Please complete the pre-workshop survey

C.6 Workshop Pre-Workshop Knowledge Survey





Construction Stormwater Inspection Workshop Provision C.6 Training



Sandy Mathews, CPESC, QSD, January 30, 2024

WELCOME

Logistics

Cell phones

• Please silence them

Questions

• Ask as we go along

Disclaimer

• Images and mention of commercial products or services should not be construed as an actual or implied endorsement or recommendation

Overview and Introductions

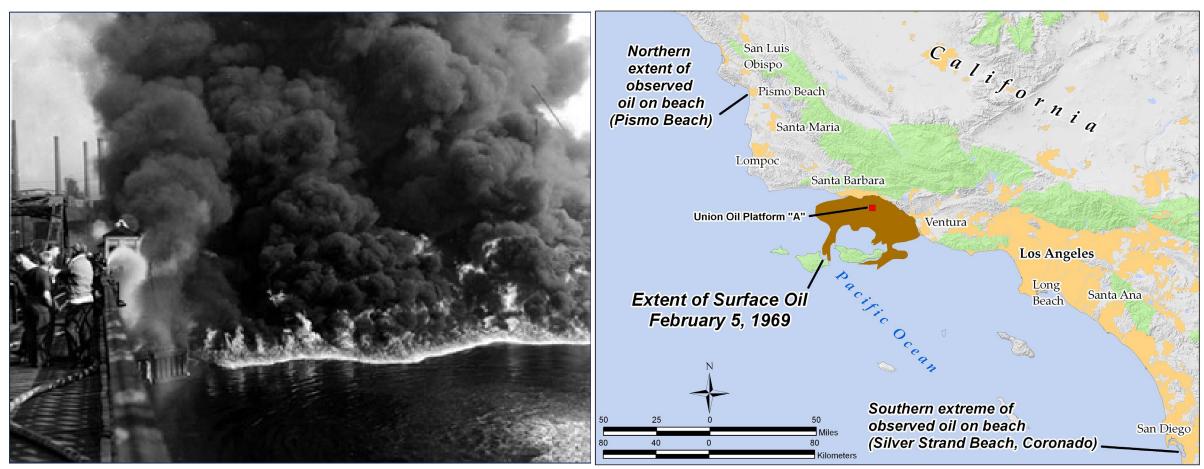
Welcome and Complete Knowledge Survey	9:00-9:05
Construction Phase Stormwater Pollutants & Regulations	9:05-9:15
MRP Provision C.6	9:15-9:30
C.6 BMP Toolbox	9:30-9:50
Break	9:50-10:00
Inspections and Documentation Best Practices and Tools	10:00-10:15
Inspection Situations	10:15-10:30
2022 CGP Overview	10:30-10:50
Wrap up and Complete Knowledge Survey and Evaluation	10:50-11:00

Setting

Regulations & Construction Phase Stormwater Pollutants

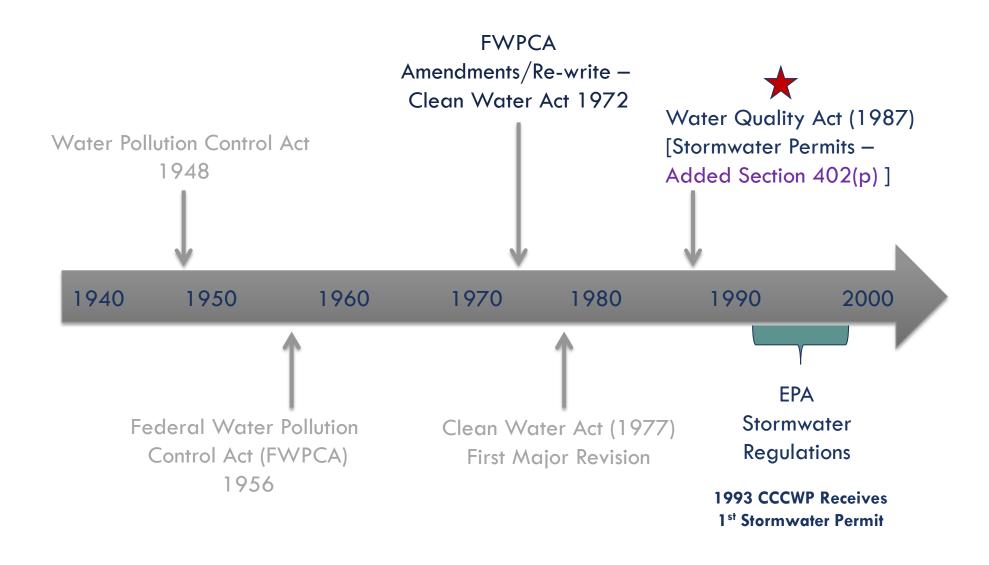
Cuyahoga River Fires

Union Oil Platform Blowout



By Antandrus at English Wikipedia, CC BY-SA 3.0, https://commons.wikimedia.org/w/index.php?curid=16365110

Clean Water Act – Brief History



Construction phase potential pollutants



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 Carries other pollutants
Concrete wastewater	рН	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, Biochemical oxygen demand	 Causes algal blooms, depletes oxygen
Asphalt/Paving Vehicle fueling & maintenance	Oil & grease	 Causes sheen, toxic to aquatic life





Mouth of Baxter Creek in Richmond



Mouth of Rheem Creek in Point Pinole Regional Shoreline



Green Valley Creek in Danville, a Tributary to San Ramon Creek in the Upper Walnut Creek Watershed



Marsh Creek in Oakley at the Site of a Recently Completed Restoration Project



Two permits regulate construction site stormwater discharges

Municipal Regional Stormwater Permit

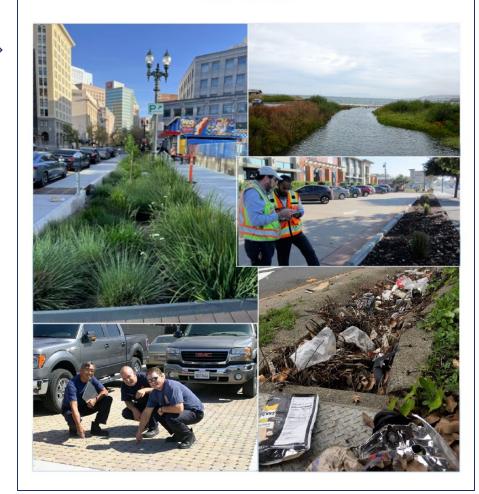


NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) GENERAL PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION AND LAND DISTURBANCE ACTIVITIES (GENERAL PERMIT)

> ORDER WQ 2022-0057-DWQ NPDES NO. CAS000002

California Regional Water Quality Control Board San Francisco Bay Region Municipal Regional Stormwater NPDES Permit

> Order No. R2-2022-0018 NPDES Permit No. CAS612008 May 11, 2022



MRP Provision C.6

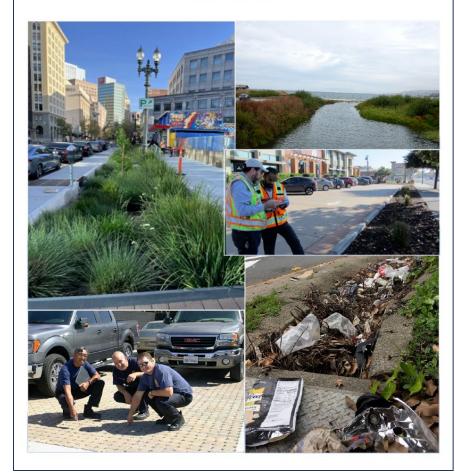
Construction Site Control

Municipal Regional Permit (MRP) 3.0

- Each agency implements programs to protect water quality
- Provision C.6 requires a Construction Site Control program
 - Prevent discharge of construction related pollutants
- MRP was reissued in 2022, but Provision
 C.6 was largely unchanged

California Regional Water Quality Control Board San Francisco Bay Region Municipal Regional Stormwater NPDES Permit

> Order No. R2-2022-0018 NPDES Permit No. CAS612008 May 11, 2022



MRP specifies six elements for construction site control programs

 $\Delta \Delta$ C.6.a – Legal Authority

X

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

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

C.6.b – Enforcement Response Plan

- ERP provides guidance for inspectors on initiating and escalating enforcement actions to achieve timely correction
- Each agency created its own ERP
 - Based on local ordinance
 - CCCWP model provided guidance



Model Enforcement Response Plan

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

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

C.6.d – Plan Approval Process

Before issuing a grading permit ...

- Review erosion control plan
 - 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 Construction General Permit (CGP)
 - Site has a WDID #
- Provide educational materials, as appropriate

C.6 Review

C.6.e – Inspections



Send annual wet season notification by September 1

Conduct monthly inspections October – April



Review adequacy of BMPs and consistency with local ordinances



Require timely corrections of actual or potential problems observed

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

PCBs Demolition Site Inspections

Demolition of applicable structures containing building materials with PCBs concentrations of 50 ppm or greater

Wet Season

- Inspect minimum of once during wet season during demolition
- Conduct additional wet season inspections as specified in your program

Dry Season

 Inspect as specified in your program

Specifics determined by the program implemented by each agency

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 identified

		9	Con	struc	tion	Site Inspection Report		C.6 Revi ך
Project Name:							Inspection Date:	
Location						Current weather (check all that apply)		
Permit No. Permit Type: Building Grading Site Development CIP Project						Has there been rainfall with runoff since last		
Project Type: Commercial/Ind Does the project disturb one acre		identia ⊒Yes ∿		treet Im		nent 🗖 Landscaping	inspection? Tyes No	
Copy of NOI submitted? Yes	No		•	Erosi	ion Cor	trol Plan on site? Yes No	Reason for inspection: Routine Pre-Rain	
SWPPP on site? Yes No Da Covered by Statewide Construction		nit? 🗖	Yes 🗆			sion Control Plan: riority Site? □Yes □No	□Other (state):	
		Not Applicable	Adequate	Needs Attention	Violation		nore than 10 business days will be required to ationale for that schedule in the comments.	
Erosion Control Measures Jute Netting/Fiber Blankets Muich Hydroseed/Soil Binder/Compos Mark Areas to be Preserved Tree Protection Fencing Riparian Area Barrier			000 000			Comments		
Sediment Control Measur Wattles/Fiber Rolls/Compost Si Silt Fences/Compost Berms Sedimentation Basin Inlet Filters (bags, sand, gravel	ocks		0000			Comments		
Dust Control Stabilized Construction Entranc Check Dams Street Sweeping								
Earth Dikes/Drainage Swales	-1							_
Run-on and Run-off Contr Earth Dikes/Drainage Swales Sampling is conducted if require						Comments		
Active Treatment System	I					Comments		
Good Site Management Construction Materials (wood, c Petroleum Products (oil, fuel) Hazardous Materials ((paint, so Waste Systems Management Soil Stockpiles Vehicle Servicing				000 000		Comments		
Non-Stormwater Manager Concrete Washout Area Sampling is conducted if require			00			Comments		
Discharge Points Are the discharge points free of ev						Comments		
Enforcement and Follow-						Identified:	Next Follow Up Inspection Date:	
Comments Enforcement Action: D None/In o	compliance 🗆	Verbal	Notice	□Not	ice to C	comply Divotice of Violation Distop V	Vork □Administrative Fine	
Resolution Problem Fixed Was there rain with runoff after the							ate Problem Resolved:	
Inspector Signa	ture						Date	

C.6 Review

C.6.e – Reporting (Annual Report Form Excerpts)

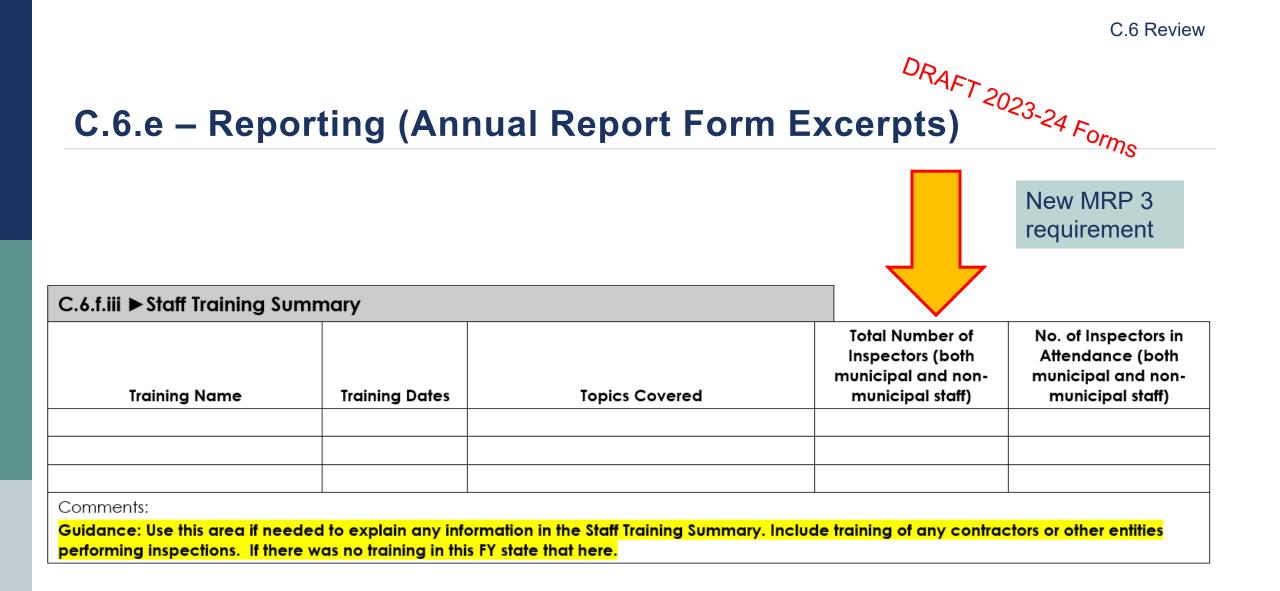
C.6.e – R	eporting (A	nnual Report	Form Exce	erpts)
C.6.e.iii.(3)(a), (b) Total number of construction sites requiring inspections during at least part of the Permit year; (C.6.e.iii.1.a)), (c), (d) ► Site/Inspe Total number of active hillside sites disturbing <1 acre of soil requiring inspection (C.6.e.iii.1.b)	Action Totals Number of High Priority Sites (sites disturbing < 1 acre of soil requiring storm water runoff quality inspection) (C.6.e.iii. 1.d)	Number of sites disturbing ≥ 1 acre of soil (C.6.e.iii.1.c)	Total number of storm water runoff quality inspections conducted (include only Hillside Sites, High Priority Sites and sites disturbing 1 acre or more) (C.6.e.iii. 1.e)

C.6.e.iii.(1)(f) ► Construction Related Storm Water Enforcement

Actions

Guidance: Do not leave any cells blank. Provide a brief description of each enforcement action level (e.g., verbal warning, notice of violation, stop work order, legal action, etc.)

	Enforcement Action (as listed in ERP) ¹	Number Enforcement Actions Issued
Level 1 ²		
Level 2		
Level 3		
Level 4		
Total		



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

MRP Provision C.6 Summary of Key Requirements



Best Management Practices

IS A THUR

C.6 BMP Toolbox

Basic principles of stormwater quality protection

■ Sites need to <u>Plan</u> for stormwater protection

Sites need to <u>use and maintain BMPs</u> at appropriate levels yearround

- Minimize pollutant exposure
- **Protect** exposed pollutants

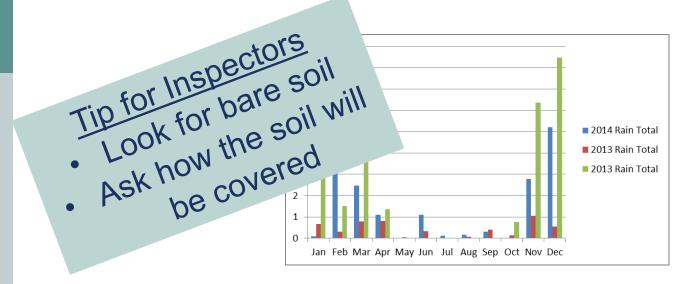
Sites need to <u>use BMPs in layers</u> to protect water quality and plan for accidents

C.6 Minimum BMP Categories Toolbox

BMP	Typical Applications
1. Erosion Control	Apply <u>on</u> graded areas and soil stockpiles.
2. Sediment Control	Apply <u>around</u> graded areas, soil stockpiles, landscape materials, site perimeter, at inlets/ catch basins. Includes sweeping and tracking.
3. Run-on and Runoff Control	Diverts water away from disturbed areas and controls water leaving site.
4. Active Treatment Systems	Chemical treatment systems to remove sediment. Not common.
5. Good Site Management	Good housekeeping and site management throughout site, especially material laydown areas.
6. Non-Stormwater Management	Water conservation and practices to prevent non-stormwater discharges.

Erosion controls

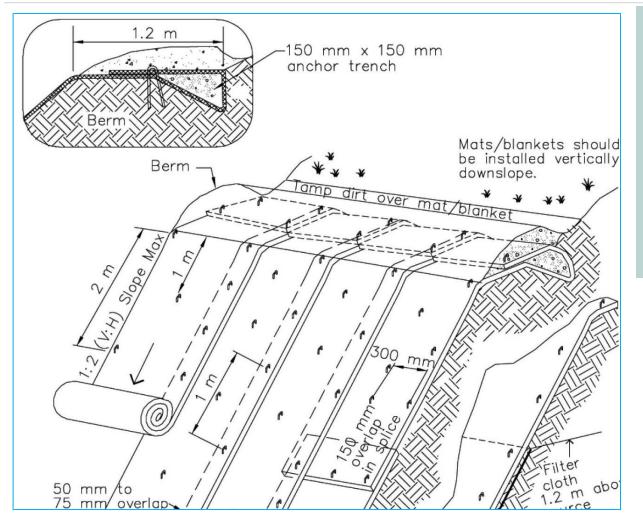
- Protects soil and prevents soil particles from becoming detached by rainfall, flowing water or wind
- Soil protected as a resource
- Source controls that prevent soil from becoming a pollutant







Fiber (Erosion Control) Blankets



Tips for Inspectors

- Blanket overlap no gaps
- Stapled to soil
- Not stretched
- Anchored at top
- Install vertically downslope
- Natural fiber nets for permanent installations



Hydroseeding/Hydromulch

Tips for Inspectors

- Look for complete coverage of soil
- Look for erosion rills
- Seeds need irrigation or light rains to germinate
- Best if soil is track walked or roughened before application



Tip for Inspectors

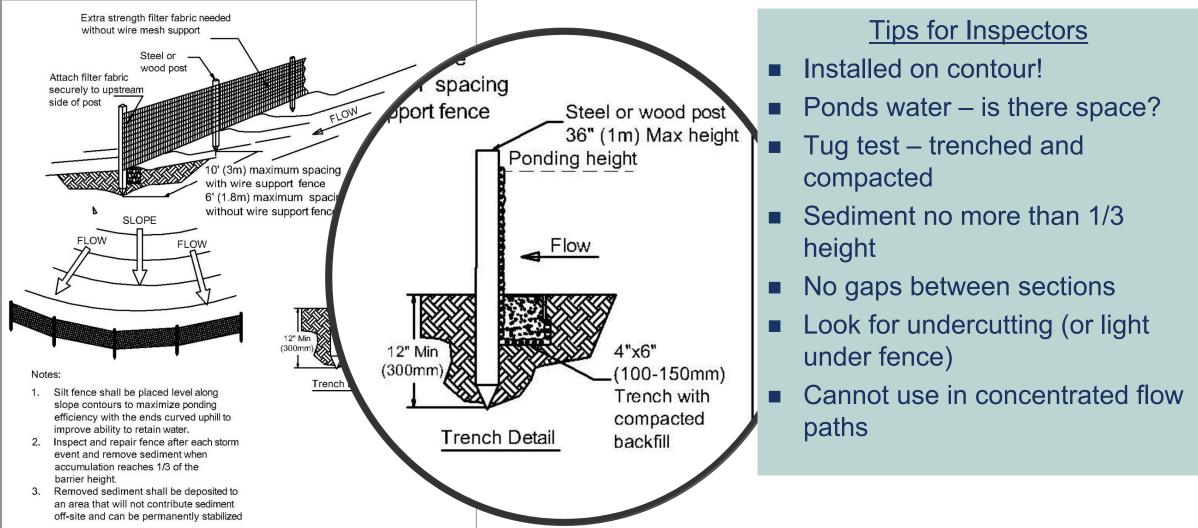
Sediment controls

- 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





Silt Fence





Fiber Rolls (Wattles)

Tips for Inspectors

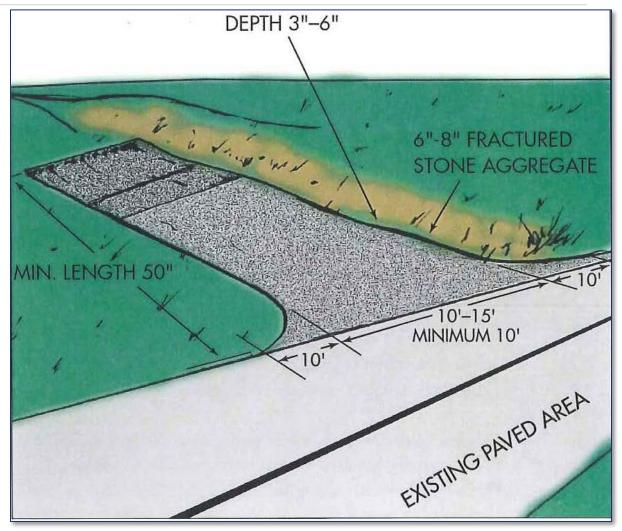
- Installed on contour!
- Cannot be used on pavement
- Toe test can you lift the wattle with you toe?
- Overlapped sections
- Look for undercutting
- J-hook ends upslope

Type 2 Installation



Stabilized Entrance/Exit Standard Design

- 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 to12 inches deep layer of rocks





Gravel

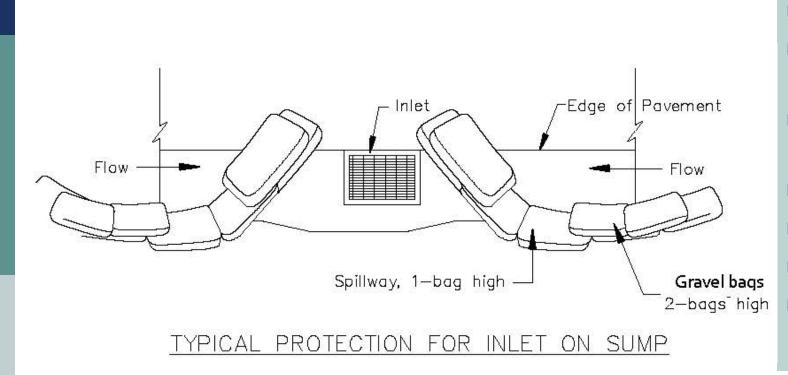
Rock

Sediment Control BMPs

Small Site Tips for Inspectors

- Install maximum length site will allow
- Install to allow two full rotations of tires of the typical vehicle
- Augment with rumble racks
- Enhance street sweeping

Drain Inlet Protection Last Line of Defense



Tips for Inspectors

- Cannot be the only BMP!
- Look for protection at drains onsite and immediately off-site
- Woven geotextile bags (in good condition)
- Bags filled with gravel
- Not stacked higher than curb line
- Spillway for water to get to DI
- Cannot use silt fence fabric over inlet

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



Tips for Inspectors

- Check how chemicals are stored
 - Secondary containment!
- Check the discharge point
 - Effluent should be clear
 - No signs of erosion

Run-on and Runoff Controls

Run-on Control

 Manage/divert runoff and dry weather flows that originate outside the project around the project or disturbed areas

Runoff Control

- Manage runoff within the project
 - Prevent runoff from flowing through disturbed areas
 - Direct runoff to sediment controls



Run-on/Runoff BMPs

Good housekeeping

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









Good Housekeeping BMPs

Stockpile Management



Sanitary Waste Management

- Manage sanitary wastes by providing convenient, appropriately placed, well-maintained facilities
- Arrange for regular service and disposal

Tips for Inspectors

- Placed on flat surface and secure units
- Out of gutter and away from storm drains
- Secondary containment



Good Housekeeping BMPs

Tips for Inspectors

- Covers in place or available to be deployed
- Excessive litter on site
- Uncontained piles of trash
- Leaks from bins

Waste and Litter Management









Non-Stormwater Management



Tips for Inspectors

- Look for evidence of discharge, e.g., stains, wet areas
- Ask about hoses or unlabeled pipes

Concrete Washout



Tips for Inspectors

- Wash out set up before start of concrete operations
- Leaks or damaged containers
- Overtopping

Nash Out Away from storm drains

Copper is a Significant Water Quality Concern

- Copper is used in a variety of architectural features
 - When installed 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

Tips for Inspectors

 Ask operators about plans treat or wash copper features



Source: Wiki commons, http://www.rutlandguttersupply.com/copperdome.asp

C.6 Minimum BMP Recap

BMP	Typical Applications		
1. Erosion Control	Apply <u>on</u> graded areas and soil stockpiles.		
2. Sediment Control	Apply <u>around</u> graded areas, soil stockpiles, landscape materials, site perimeter, at inlets/ catch basins. Includes sweeping and tracking		
3. Run-on and Runoff Control	Diverts water away from disturbed areas and controls water leaving site.		
4. Active Treatment Systems	Not common, chemical treatment systems to remove sediment.		
5. Good Site Management	Good housekeeping and site management throughout site, especially material laydown areas.		
6. Non-stormwater Management	Water conservation and practices to prevent non-stormwater discharges.		

Inspections and Documentation

Best Practices and Tools

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

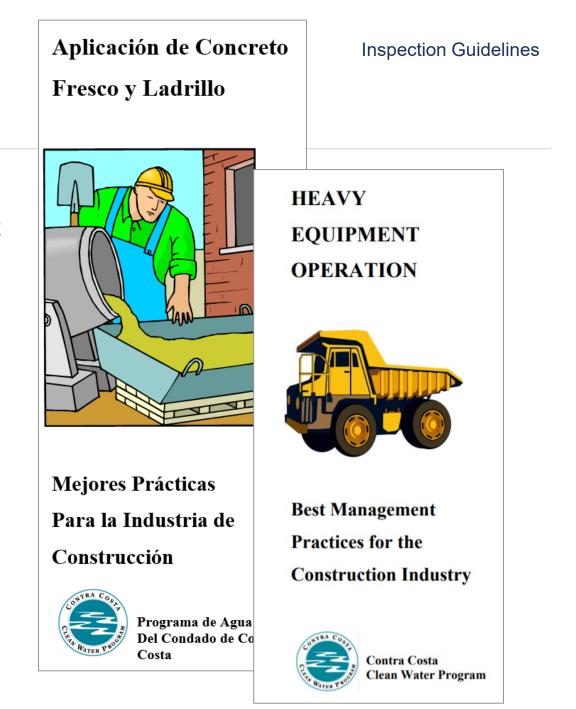
Preparation for Inspection

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



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



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								Inspection Guidelines	
Project Name:							Inspection Da	ate:	
Location								check all that apply)	-
Permit No. Permit Type:								dy ⊡Windy ⊡Rainy	
Project Type: Comme	rcial/Industrial 🔲 Res	identia				velopment CIP Project	inspection? QYes	ainfall with runoff since last	
Does the project disturb of		Yes						ction: Routine Pre-Rain	
Copy of NOI submitted?	Yes No		-	Eros	ion Cor	ntrol Plan on site? Yes No		After Rain DFollow-up	
SWPPP on site? Yes						sion Control Plan:	Other (state):		
Covered by Statewide Co	nstruction General Pern	nit? 🗆	Yes 🗖	No	High P	riority Site? □Yes □No			J
CLE	tracosta AN WATER ogram	Not Applicable	Adequate	Needs Attention	Violation	If, following discovery of a violation, achieve compliance, then include a			
Erosion Control Mea Jute Netting/Fiber Blan						Comments			
Mulch			Ē		ŭ				
Hydroseed/Soil Binder/	Compost Blanket								
Mark Areas to be Prese									
Tree Protection Fencing	9								
Riparian Area Barrier Sediment Control M	ossuros		LL.		<u>ц</u>				-
Wattles/Fiber Rolls/Cor Silt Fences/Compost Be Sedimentation Basin	npost Socks erms		000			Comments			
Inlet Filters (bags, sand Dust Control	, gravel)								
Stabilized Construction	Entrance	D D		ä					
Check Dams	Lindado								
Street Sweeping									
Earth Dikes/Drainage S									
Run-on and Run-off		_	L			Comments			
Earth Dikes/Drainage S Sampling is conducted			8						
Active Treatment S					<u>u</u>	Ormanta			-
						Comments			
Good Site Managen			_	-	_	Comments			
Construction Materials Petroleum Products (oil			18						
Hazardous Materials ((000	000	ē					
Waste Systems Manag									
Soil Stockpiles									
Vehicle Servicing									
Non-Stormwater Ma		_	L_	-	_	Comments			
Concrete Washout Area Sampling is conducted									
Discharge Points	in roquirou (on o onij)	-		-	0	Comments			-
Are the discharge points fi	ree of evidence of illicit	discha	rge? (Yes	□No	Comments			
Enforcement and F	ollow-up		Date	Proble	m First	Identified:	Next Follow Up Inspecti	on Date:]
Comments			L						1
		Verhal	Notice		ice to (Comply Notice of Violation	Work Administrative	ine	
Resolution Problem Was there rain with runoff	m Fixed D Need More	Time	Esc	alate E	nforcer	ment 🗆 🗅	ate Problem Resolved:		-
Inspector	Signature			_0.010			Date		-1 -1

Construction Site Inspection Report						Inspection Guidelines		
Project Name:								
Location					Sunny Cloudy Windy Rainy	Project Information		
Permit No.		it Type:			velopment CIP Project Has there been rainfall with runoff since last			
Project Type: □ Commercial/Industrial □ Residential □ Street Improvement □ Landscaping inspection? □ Yes □ No □ Commercial/Industrial □ Residential □ Street Improvement □ Landscaping inspection? □ Yes □ No □ Reason for inspection: □ Routine □ Pre-R								
Copy of NOI submitted? □Yes □No SWPPP on site? □Yes □No Date on SWPPP					htrol Plan on site? UYes UNo			
Covered by Statewide Construction General Per		Yes 🗆			riority Site? □Yes □No	Inspection Day		
CONTRACOSTA 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.	Information		
Erosion Control Measures Jute Netting/Fiber Blankets Mulch Hydroseed/Soil Binder/Compost Blanket Mark Areas to be Preserved	0000	0000			Comments			
Tree Protection Fencing Riparian Area Barrier								
Sediment Control Measures Wattles/Fiber Rolls/Compost Socks Silt Fences/Compost Berms Sedimentation Basin	000	000			Comments	BMP		
Inlet Filters (bags, sand, gravel) Dust Control Stabilized Construction Entrance Check Dams						Observations		
Street Sweeping Earth Dikes/Drainage Swales		00				Observations		
Run-on and Run-off Control Earth Dikes/Drainage Swales Sampling is conducted if required (CIPs only)					Comments			
Active Treatment System					Comments			
Good Site Management Construction Materials (wood, cement, etc.) Petroleum Products (oil, fuel) Hazardous Materials ((paint, solvents)	000	000	000		Comments			
Waste Systems Management Soil Stockpiles Vehicle Servicing						Illicit Discharge		
Non-Stormwater Management Concrete Washout Area Sampling is conducted if required (CIPs only)					Comments	Observations		
Discharge Points Are the discharge points free of evidence of illicit	discha	arge?	⊒Yes	□No	Comments			
Enforcement and Follow-up Date Problem First Identified:			em First	Identified: Next Follow Up Inspection Date:				
Comments Enforcement Action: None/In compliance	Verba	Notice		otice to (Comply Notice of Violation Stop Work Administrative Fine	Follow-up Actions		
Resolution Problem Fixed Need More Was there rain with runoff after the problem was						Sign & Date Form		
Inspector Signature					Date	Sign & Date Fulli		

Document BMP Observations and Actual and Potential Illicit Discharges

- ☑ Not Applicable
- ☑ Adequate
- ☑ Needs Attention
- \blacksquare 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



Use the Inspection Form to Document Enforcement

- Re-inspection
- Enforcement action taken
- Resolution

Enforcement and Fo	ollow-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 Situations



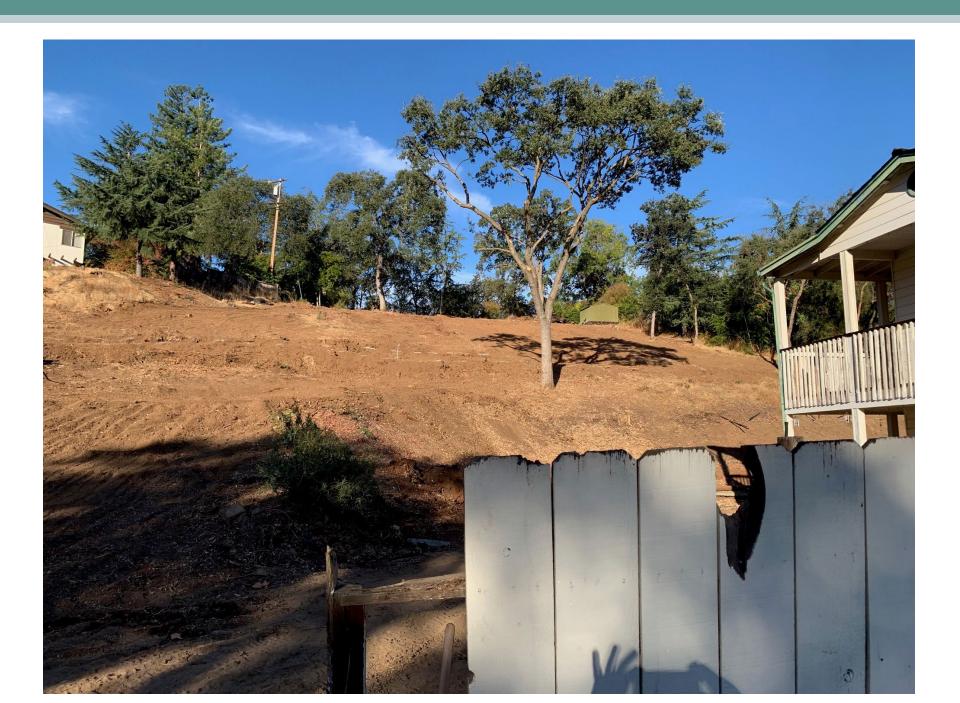


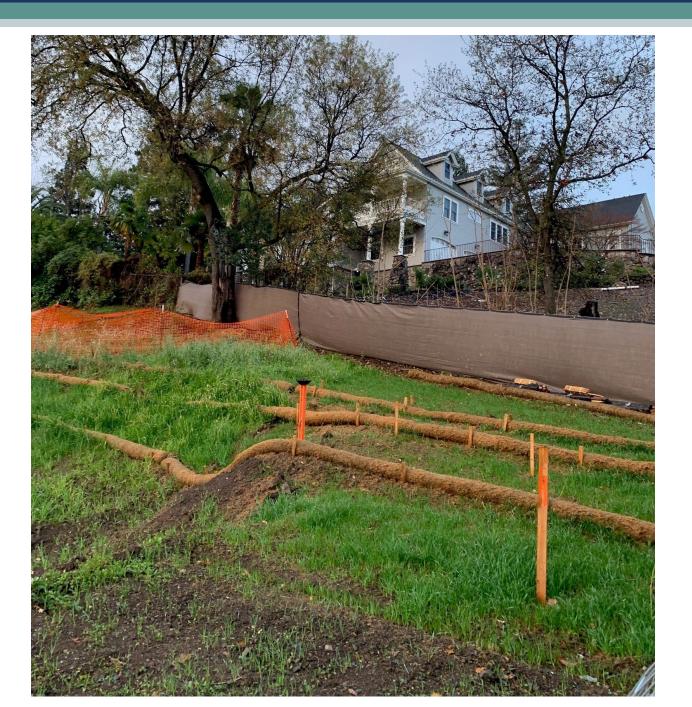


















2022 Construction General Stormwater Permit

CALIFORNIA STATE WATER RESOURCES CONTROL BOARD 1001 I Street Sacramento, CA 95814 <u>https://www.waterboards.ca.gov</u>

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) GENERAL PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION AND LAND DISTURBANCE ACTIVITIES (GENERAL PERMIT)

ORDER WQ 2022-0057-DWQ NPDES NO. CAS000002

This Order was adopted by the State Water Resources Control Board on:	September 8, 2022
This Order shall become effective on:	September 1, 2023
The statewide programmatic permitting option per Section III.B.4 of this Order shall become effective on:	December 17, 2022
This Order shall expire on:	August 31, 2028

IT IS HEREBY ORDERED that this Order supersedes Order 2009-0009-DWQ as amended by Order 2010-0014-DWQ and 2012-0006-DWQ except for: (1) the requirement to submit annual reports by September 1, 2023, (2) enforcement purposes, and (3) as set forth in Section III.C of this Order. The discharger shall comply with the requirements in this Order to meet the provisions contained in Division 7 of the California Water Code (commencing with § 13000) and regulations adopted thereunder, and the provisions of the federal Clean Water Act and regulations and guidelines adopted thereunder.

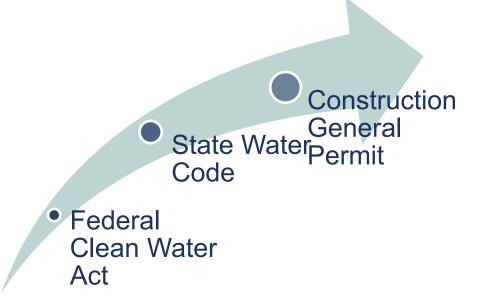
IT IS ALSO HEREBY ORDERED that on or after December 17, 2022, a discharger deploying Executive Order N-73-20 may obtain regulatory coverage through the statewide programmatic permitting option in Section III.B.4 under Order 2009-0009-DWQ as amended by Orders 2010-0014-DWQ and 2012-0006-DWQ until September 1, 2023.

2022 CGP

https://www.waterboards.ca.gov/water_issues/ programs/stormwater/construction.html

CGP implements federal and state water quality requirements

- Construction sites that disturb ≥ one acre of soil
 - Statewide general permit
 - Regulates stormwater and some nonstormwater discharges from construction sites
- Issued to the construction site (landowner)
- Requires plans and BMPs to protect stormwater and prevent non-stormwater discharges



Basic CGP requirements



Develop a Stormwater Pollution Prevention Plan (SWPPP)



Develop Post Construction BMP Plan



Submit a Permit Application – Notice of Intent (NOI)



Implement and maintain the BMPs and SWPPP



Monitor the site



Complete and certify annual reports



File a Notice of Termination (NOT)

2022 CGP effective date and regulatory transition period



Two parallel CGPs will be in effect from 9/1/2023 until 9/1/2025

- Projects with active WDID numbers before 9/1/2023, can remain under the 2009 CGP until the end of the transition period
 - New area added to an existing project after 9/1/2023 will be under the 2022 CGP

Getting coverage under the 2022 CGP

New/Changed Requirements

- New SMARTS interface for the 2022 CGP
- Permit fee based on total disturbed area
- Submit Post Construction Plans with CGP application
- Projects separated by ¼ mile are not considered a common plan of development

Stormw	rater Multiple Application and Report Tracking System	Water Boards California Environmental Protection Agancy You are logged in as Sandra Mathews. If this account does not belong to you, please log out.							
Start a New Applica	Active Applications File Reports	Account Management Recertify Existing Applications Document Ready for Certification							
d	<u>Pending Applications</u> View and continue applications that are in progress or have been returned.	<u>Submitted Applications</u> Manage active and terminated applications processed by the State Water Board. (Submit a Change of Information, amend a Stormwater Pollution Prevention Plan, convert to a No Exposure Certification, view inspections and reports, etc.)							
ith	Documents Ready for Certification For the Legally Responsible Person and Duly Authorized Representative(s): View, certify, and submit documents to the State Water Board.	<u>File Reports</u> View previously submitted reports and submit new reports to ensure permit compliance.							
	Account Management Perform administrative tasks associated with your account. (Update organization info, manage Legally Responsible Person, manage linked users, manage Compliance Groups, view outstanding invoices, self-certify as a QSD, etc.)	<u>Recertify Existing Application</u> Recertify an annual No Exposure Certification or coverage under a reissued General Permit.							

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CGP projects in Contra Costa need to comply with C.3 requirements

- Upload an attachment or web source of the post construction standards
- Upload preliminary or approved Post Construction BMP Plan and calculations
 - If uploading a preliminary plan, need to upload approved plans within 14-days of plan approval by the local agency



STORMWATER C.3 GUIDEBOOK

Stormwater Quality Requirements for Development Applications

8th Edition December 23, 2022 Visit <u>www.cccleanwater.org</u> for updates.

Qualified SWPPP Developer and Practitioner responsibilities

- Projects must have QSD and QSP throughout the project
- Mandates QSDs and QSPs conduct specified inspections that may not be delegated
- QSPs must provide specified training to staff performing delegated tasks
 - Foundational training, e.g., how to use weather forecasts
 - Site specific training, e.g., where to collect samples at the site
- State Water Board may take action against QSDs and QSPs found to be negligent
- QSDs and QSPs must complete a reissuance review for the 2022 CGP prior to their credential expiration
 - Self-certified QSDs (e.g., professional engineers) must complete the recertification process within a year of the effective date



Fundamental changes to inspections and monitoring



Definition of the qualifying precipitation event (QPE)



Sampling frequency and reporting



Data evaluation



New term: Qualifying Precipitation Event

- A QPE is any weather pattern that is forecast to have a 50 percent or greater Probability of Precipitation and a Quantitative Precipitation Forecast (QPF) of 0.5 inches or more within a 24-hour period.
 - The event begins with the 24-hour period when 0.5 inches has been forecast and continues on subsequent 24-hour periods when 0.25 inches of precipitation or more is forecast
- Use the National Weather Service Weather Table
 - https://www.weather.gov/wrh/wxtable

2009 Qualifying Rain Event Definition Any event that produces 0.5 inches or more precipitation with a 48 hour or greater period between rain events.

Qualifying Precipitation Example #1

	December 31				January 1				January 2				January 3			
Time	4a	10a	4р	10p	4a	10a	4р	10p	4a	10a	4p	10p	4a	10a	4р	10p
PoP	55	95	100	40	15	-	-	-	-	5	50	55	30	30	30	35
QPF	0.02	0.13	0.83	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.1	0.01	0.01	0.01	0.04
QPE	1 st QPE – Start & End				No QPE			No QPE				No QPE				

January 4				January 5				January 6				January 7				
Time	4a	10a	4р	10p	4a	10a	4р	10p	4a	10a	4р	10p	4a	10a	4р	10p
PoP	35	45	60	80	75	55	35	30	20	15	15	15	-	-	-	-
QPF	0.05	0.11	0.28	0.51	0.35	0.30	0.27	0.11	0.07	0.05	0.00	0.00	0.00	0.00	0.00	0.00
QPE	E No QPE 2 nd QPE – D		Day 1 (Start) 2 nd QPE – D			Day 2 (End) No 🕯				QPE		No QPE				

PoP = Probability of Precipitation

QPF = Quantitative Precipitation Forecast

QPE = Qualifying Precipitation Event

Sampling frequency, reporting, and data evaluation

pH and turbidity sampling frequency

- Collect one sample from each actively discharging location each 24-hour period of the QPE
 - 1 discharge point = 1 sample per day
 - 10 discharge points = 10 samples per day
- PH and turbidity data must be uploaded to SMARTS after each precipitation event
 - NAL exceedance: Within 10 days of the completion of the precipitation event
 - Data within NAL: Within 30 days of the completion of the precipitation event
- Evaluation of pH and turbidity Numeric Action Levels (NALs)
 - No more averaging of results
 - Exceedance occurs when any sample exceeds the NAL value

Parameter	NAL
рН	< 6.5 to > 8.5
Turbidity	> 250 NTU

Only trained QSP Delegates, QSPs, or QSDs may collect samples

Who can perform inspections

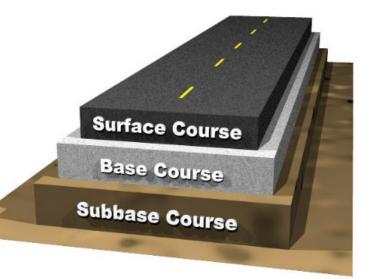
Inspection Type	QSD	QSP	QSP- Delegate
Twice annual	×		
Within 30 days of construction start and replacing QSD	×		
As requested by Regional Water Board	×		
Inactive sites – within 14 days of COI approval	×		
Within 14 days of NAL exceedance	×	×	
Monthly		×	
Pre-precipitation event		×	
Weekly			
During and post-precipitation event		$\overline{\checkmark}$	\checkmark
Inactive sites – Monthly and pre-precipitation event	$\overline{\checkmark}$		
Prior to COI and NOT submissions	V	×	

☑ CGP Required ☑ CGP Allowed

New definition: Routine Maintenance for Roads

Routine maintenance for road and highway projects is defined as the replacement of the structural section, but not when the activity exposes the underlying soil or erodible subgrade.

■ Road maintenance projects that *expose* ≥1 acre of soil and/or subgrade are subject to the CGP



Source: https://pavementinteractive.org/

Order Section II.B.1 Attachment B Glossary

New requirement: Reducing acreage on residential subdivision

- 2022 CGP allows projects to remove residential lots from CGP coverage
 - Lots can be removed before final stabilization of the front and/or back yards
- Must meet the following criteria
 - All construction is complete
 - Lot is less than one acre of disturbance
 - Home is sold to individual homeowner
 - Certificate of Occupancy issued
 - Temporary stabilization BMPs are installed
 - Homeowner is contracted to
 - Maintain BMPs
 - Complete final stabilization within one year



Order Section III.F.2.b

New BMPs and Controls

- Passive Treatment BMPs
 - Use must comply with Attachment G



- Dewatering plans or permits
 - West County Develop dewatering plan per Attachment J
 - East County Apply for the Central Valley Regional General Dewatering Permit for
 - Order R5-2022-0006-01
 - Projects need to plan well in advance to acquire the dewatering permit

Dewatering is mechanical pumping or siphoning non-potable water from excavations, foundations, vaults, impoundments, trenches and groundwater removal specifically related to construction activities

New/Changed requirements: Terminating CGP coverage

- Final erosion control BMPs cannot have plastic nets (wildlife entrapment)
- QSP must inspect and complete inspection report that verifies the site meets the termination criteria
- Photos demonstrating final stabilization and the applicable post-construction BMPs
- More detailed final site map(s)
 - Photo orientation references, locations of permanent erosion/sediment control and post construction BMPs, etc.
- Long-term maintenance plan for the post-construction BMPs

NOT is automatically approved after 30 days if Regional Water Board does not act on it

Wrap up and resources

- CGP <u>https://www.waterboards.ca.gov/water_issues/programs/stormwater/construction.html</u>
- SMARTS <u>https://smarts.waterboards.ca.gov/smarts/faces/SwSmartsLogin.xhtml</u>
- SMARTS help guides -

<u>https://www.waterboards.ca.gov/water_issues/programs/stormwater/smarts/construction/cons</u> <u>t_help_guides.html</u>

- CASQA Construction BMP Handbook and SWPPP Template <u>https://www.casqa.org/resources/bmp-handbooks/construction-bmp</u>
- 2022 CGP Reissuance Review (for the public) <u>https://www.casqa.org/resources/training/cgp-training-program/2022-cgp-reissuance-review</u> (QSDs and QSPs need to complete the review in their accounts to get credit0
- State Water Board CGP Roadshow <u>https://www.waterboards.ca.gov/water_issues/programs/stormwater/construction/general_per_mit_reissuance.html#roadshow</u>

Please complete the post-workshop survey and evaluation

C.6 Workshop Post-Workshop Knowledge Survey & Evaluation

