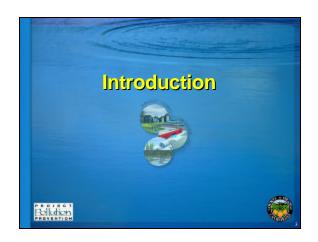
EXHIBIT B.7.II

NEW DEVELOPMENT/SIGNIFICANT REDEVELOPMENT

PROJECT PLANNING AND DESIGN: ENVIRONMENTAL REVIEW, PLANNING & PERMITTING, AND WQMP DEVELOPMENT





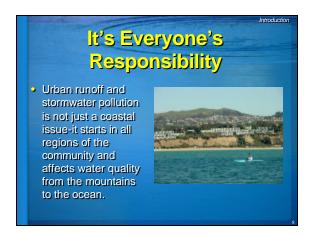




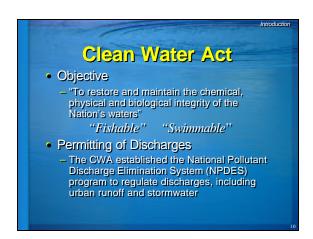




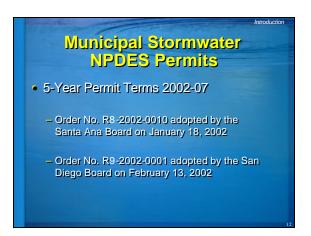


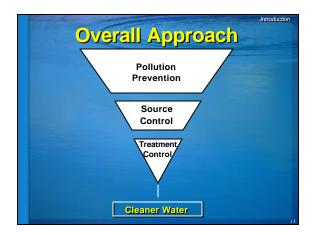


It's Your Responsibility • Everyone should help to reduce urban runoff and stormwater pollution. • This training will help explain what you can do while conducting project planning and design activities to help implement the Orange County Stormwater Program.

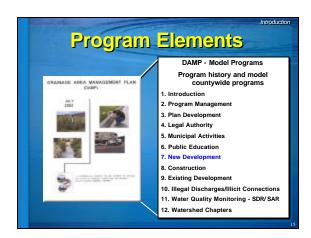






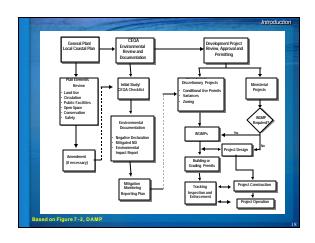




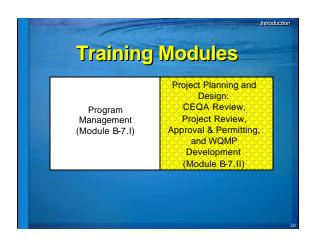


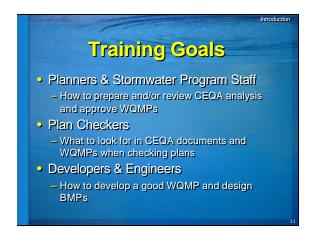






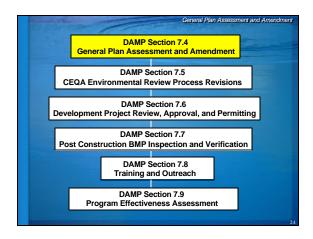


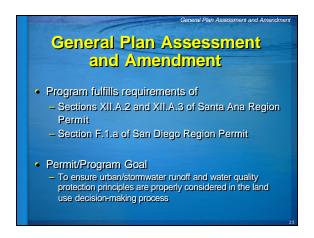


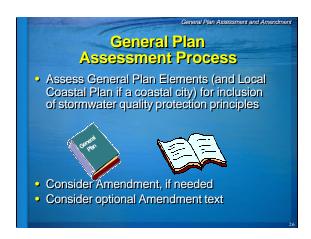


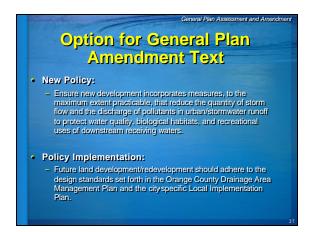


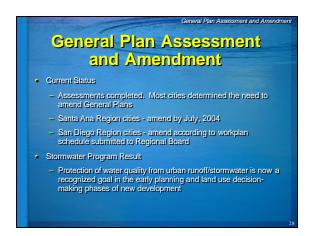




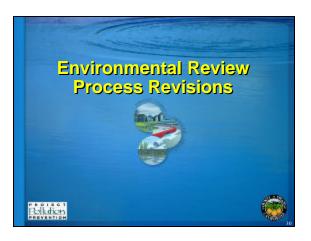






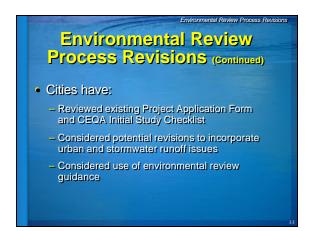


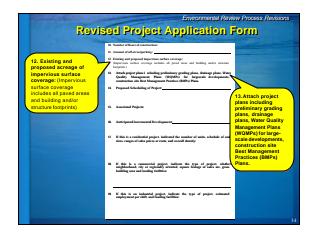




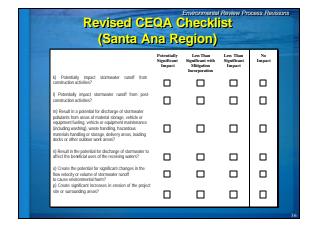


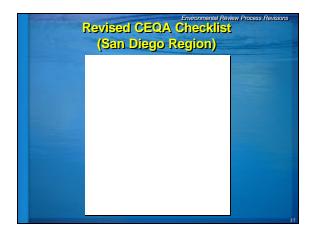


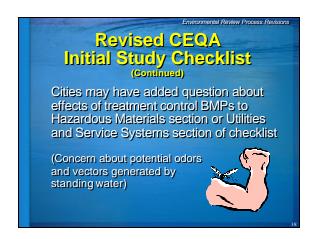


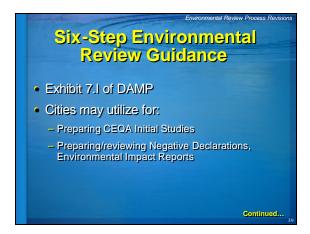


Revised CEQA Initial Study Checklist
 Cities may have added questions about water quality impacts of urban runoff/ stormwater to Hydrology/Water Quality Section of checklist
Questions extracted from Santa Ana Region and San Diego Region Permits
Continued









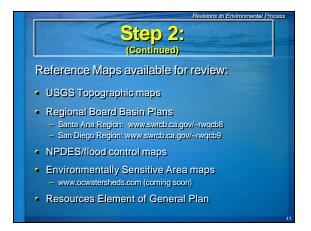


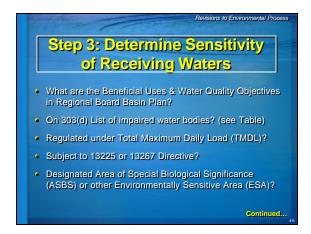




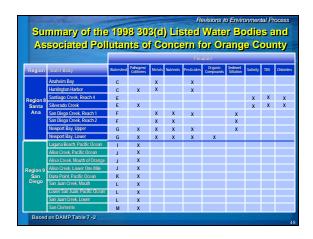


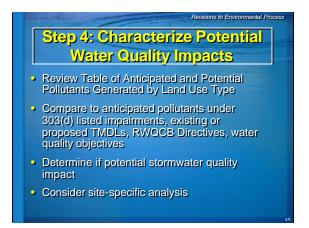












Priority Project Categories and/or Project Features	Pathogens	Heavy Metals	Nutrients	Pesticides	Organic Compounds	Sediments	Trash & Debris	Oxygen Demanding Substances	
Detached Residential Development	х		х	х		х	X	X	(
Attached Residential Development	Р		х	х		х	х	P(1)	
Commercial/Industrial Development > 100,000 ft ²	P(3)		P(1)	P(5)	P(2)	P(1)	х	P(5)	
Automotive Repair Shops		х			X(4)(5)		х		Γ
Restaurants	х						х	х	Г
Hillside Development > 5,000ft ² in SDRWQCB			х	х		х	х	х	
Hillside Development > 10,000 ft ² in SARWQCB			х	х		х	х	х	
Parking Lots		х	P(1)	P(1)		P(1)	Х	P(1)	Γ
Streets, Highways & Freeways		х	P(1)		X(4)	х	Х	P(5)	Γ
X= anticipated P= potential (1) A potential pollutant if la (2) A potential pollutant if the uncovered parking areas			on-site (prod	ucts a petroleum l			food or anin	nal

Stormwater Impact Example

Proposed 200 single-family residences on hillside draining to Aliso Creek

Priority project

Sensitive water body

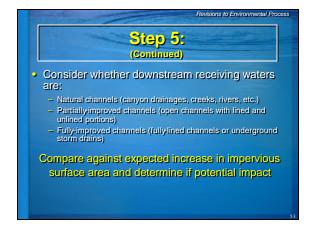
Aliso Creek is impaired water body (on 303(d) List) for pathogens, coliform

Regulated under 13225 Directive for pathogens

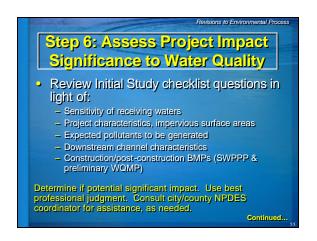
Pathogens are anticipated stormwater pollutant from residential development

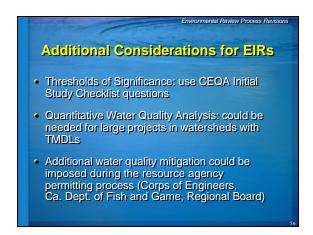
Conclusion: Potential storm water quality impact

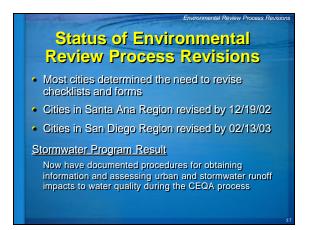


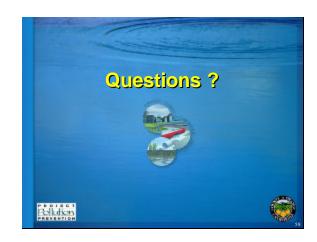






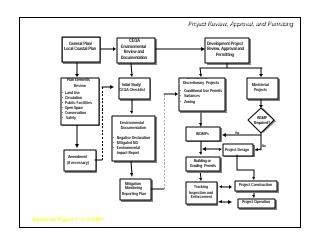








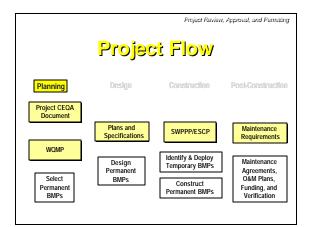




Project Review, Approval, and Permitting

Review, Approval, and Permitting of Development Projects

- · DAMP Section 7.6 fulfills requirements of
 - Sections XII.A.2(b), XII.A.6, and XII.A.7 of Santa Ana Region Permit
 - Section F.1.b of San Diego Region Permit

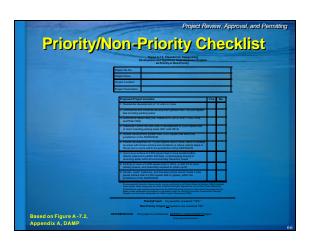


Project Review, Approval, and Permitting

Projects Requiring

- WQMPs required for new development or significant redevelopment projects that:
 - Qualify as one of the Priority Project Categories listed in the Municipal Stormwater Permits ("Priority Project")
 - Do not qualify as a Priority Project but do require discretionary action that will include a precise plan of development ("Non-Priority Project")
 - Do not qualify as a Priority Project but do require issuance of a non-residential plumbing permit ("Non-Priority Project")

Project Review, Approval, and Permitting **Priority Projects** Residential ≥10 units • Impervious surface ≥2,500 sq.ft. within, adjacent to, or Commercial/Industrial discharging directly ESA >100,000 sq.ft. Parking lots ≥5,000 sq.ft. Automotive repair shops or with 15 or more parking spaces Restaurant >5,000 sq.ft. San Diego Region: streets, roads, highways, freeways Hillside Development creating >5,000 sq.ft. new paved surface

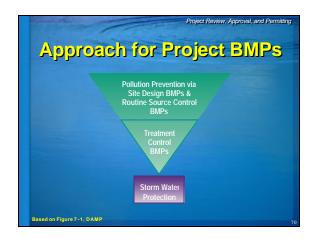


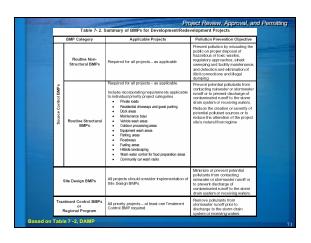
Requirements for Priority Projects Consider site design BMPs Routine structural and non-structural BMPs Treatment control BMPs, potentially including regional/watershed approach Mechanism for assuring long-term operation and maintenance of structural

Requirements for Non-Priority Projects Consider site design BMPs Routine structural and non-structural BMPs Mechanism for assuring long-term operation and maintenance of structural BMPs

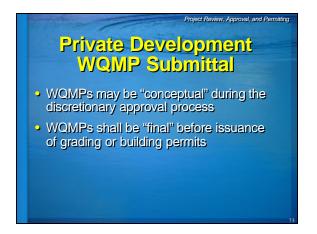


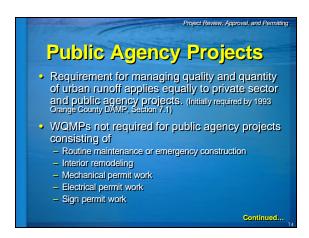
BMPs

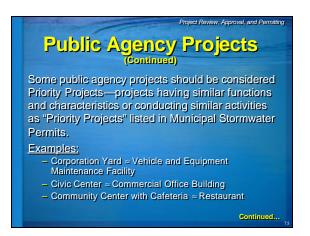


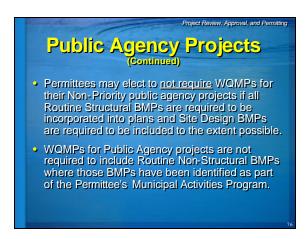




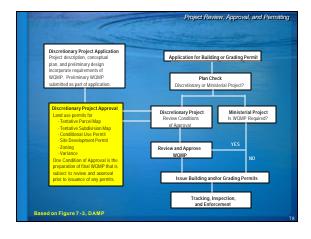






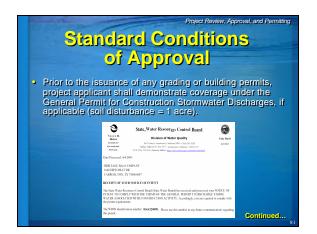


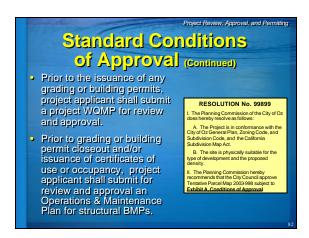


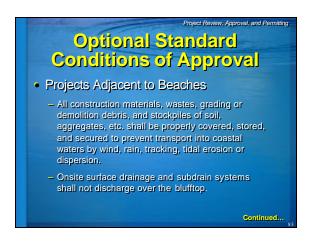




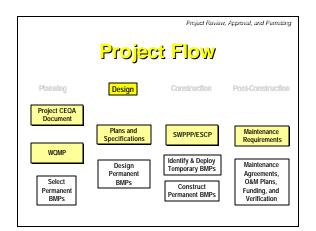


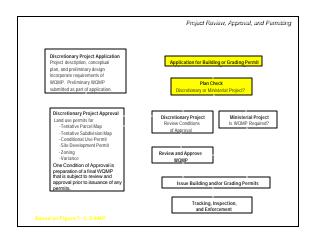












Project Review, Approval, and Permitting

Project: Discretionary or Ministerial?

- Discretionary projects are those that require the public agency to exercise judgment in deciding whether to approve or disapprove the project
- Ministerial projects are those where the public agency merely has to determine whether there has been conformity with applicable ordinances or other laws.

Project Review, Approval, and Permitting

Plan Check

- Plan sheets submitted for all grading or building permits shall include standard notes for compliance with the minimum requirements applicable to all construction sites.
- Consider requiring approval of a project's "final" WQMP prior to submittal of construction plans for plan check.

Project Review, Approval, and Permitting

Standard Notes for All Construction Sites

Examples

- Sediment from areas disturbed by construction shall be retained on site using structural drainage controls to the maximum extent practicable.
- Stockpiles of soil shall be properly contained to minimize sediment transport from the site to streets, drainage facilities or adjacent properties via runoff, vehicle tracking, or wind.

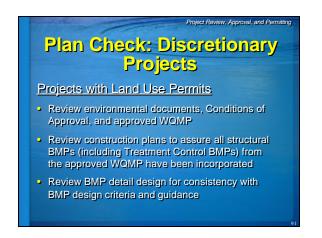
Continued...

Project Review, Approval, and Permitting

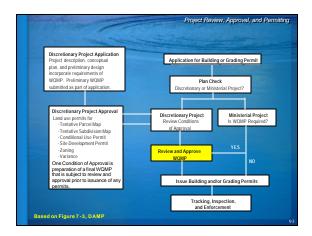
Standard Notes for All Construction Sites

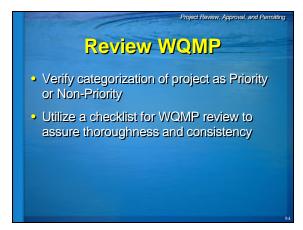
Examples

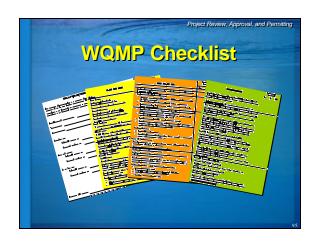
- Construction-related materials, wastes, spills or resides shall be retained on site to minimize transport from the site to streets, drainage facilities, or adjoining property by wind or runoff.
- Runoff from equipment and vehicle washing shall be contained at construction sites unless treated to remove sediment and other pollutants.

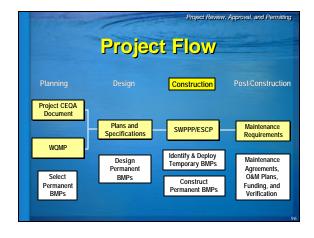


Projects Wilnisterial Projects Projects with By-Right Zoning Grading or building permit application includes proposed WQMP and construction plans First step is review and approval of the WQMP Revision and re-submittal of WQMP and construction plans may be necessary prior to permit issuance

















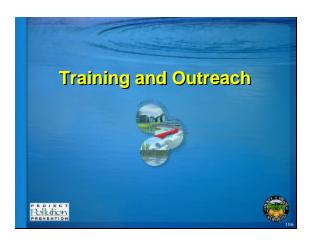


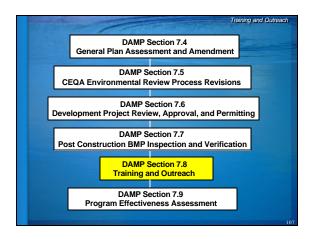






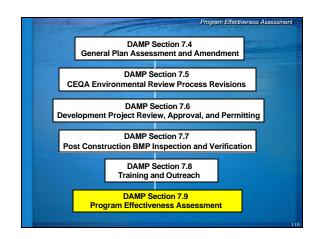


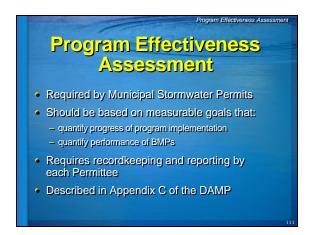




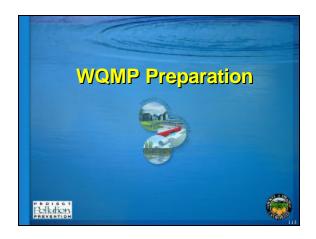


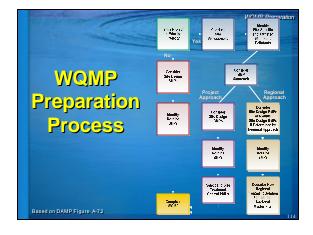


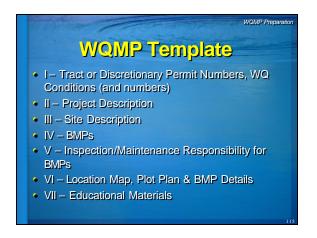


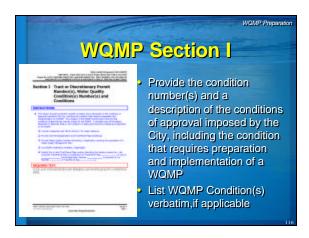


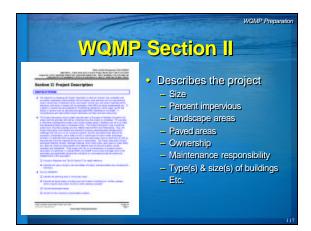


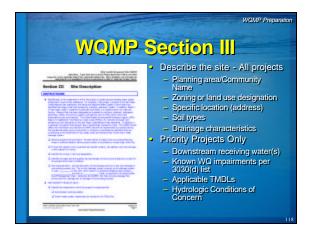


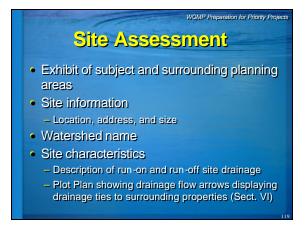








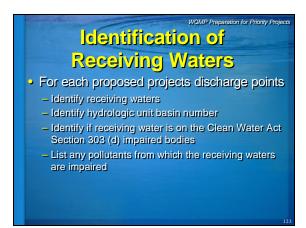




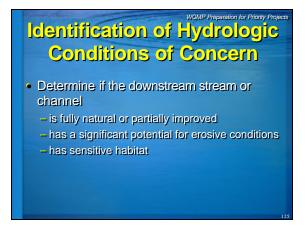


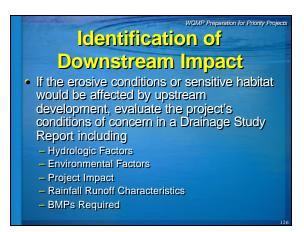


fable 7.II-2	General Pollutant Categories Trash Oxygen								
Priority Project Categories and/or Project Features	Pathogens	Heavy Metals	Nutrients	Pesticides	Organic Compounds	Sediments	& Debris	Demanding	G
Detached Residential Development	х		х	х		х	х	х	
Attached Residential Development	Р		х	х		х	х	P(1)	
Commercial/Industrial Development > 100,000 ft ²	P(3)		P(1)	P(5)	P(2)	P(1)	х	P(5)	
Automotive Repair Shops		х			X(4)(5)		х		Г
Restaurants	х						х	х	
Hillside Development > 5,000ft ² in SDRWQCB			x	х		х	х	х	
Hillside Development > 10,000 ft ² in SARWQCB			х	х		х	х	х	
Parking Lots		х	P(1)	P(1)		P(1)	Х	P(1)	
Streets, Highways & Freeways		х	P(1)		X(4)	х	х	P(5)	
X= anticipated P= potential (1) A potential pollutant if la (2) A potential pollutant if the uncovered parking areas	ındscapin ne project	g exists include	on-site (wast 4) Includin	tial pollutan e products g petroleum g solvents			s food or an	ima





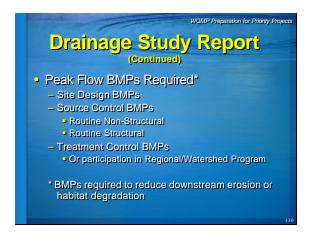


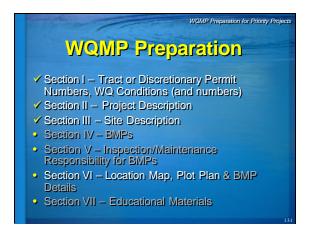






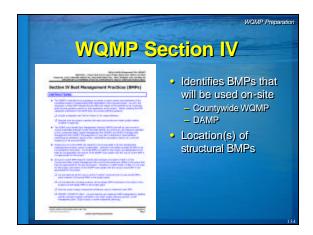


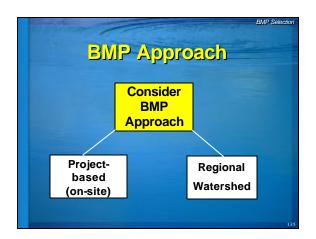




















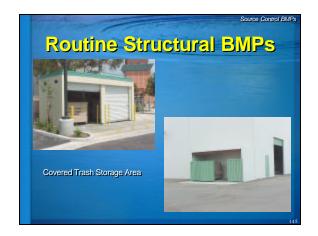


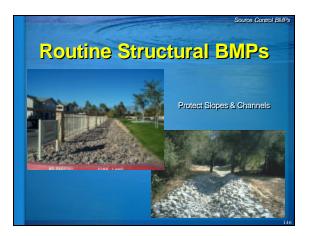




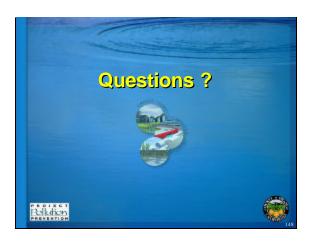




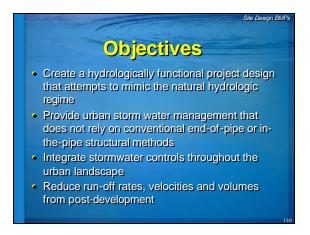


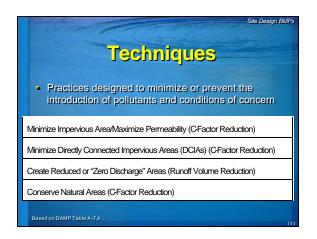




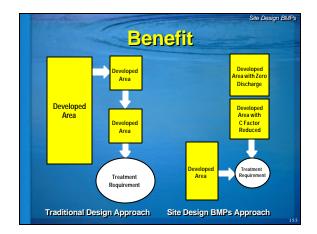


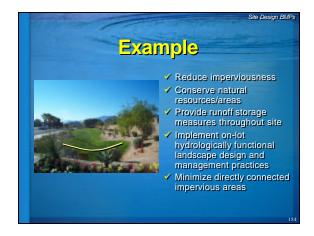






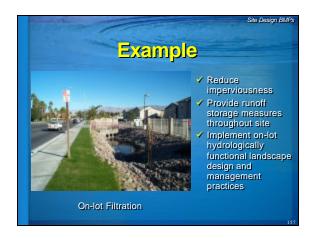


















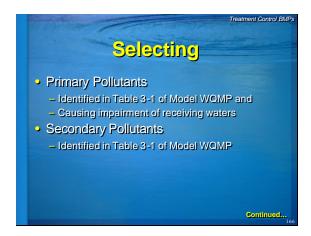


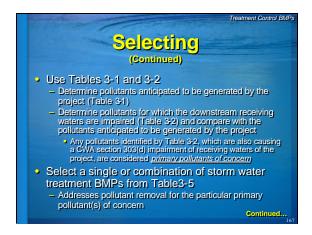


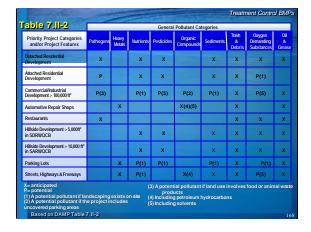




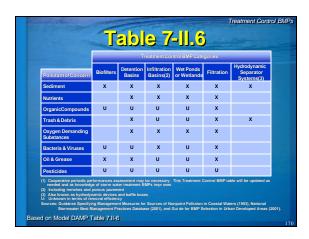


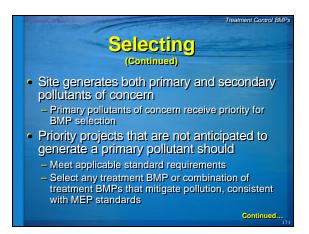


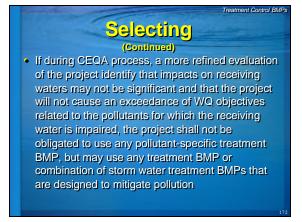










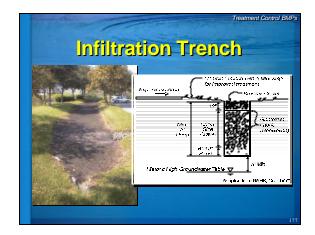






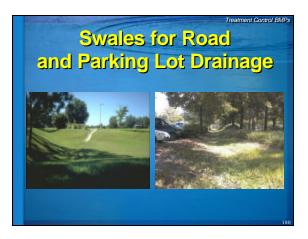


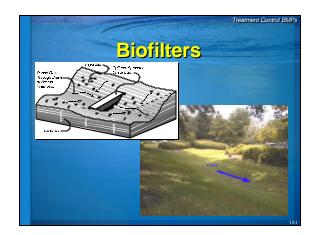




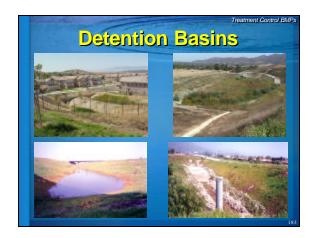


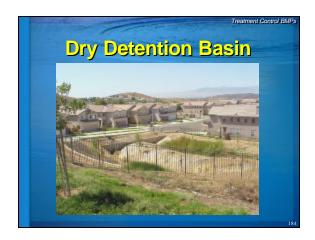


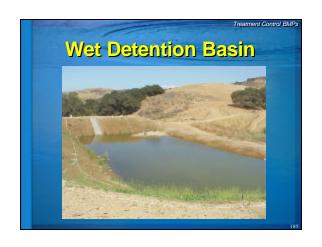


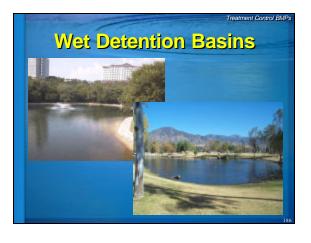




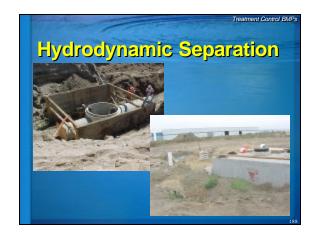






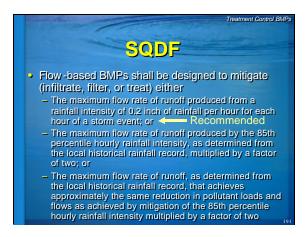


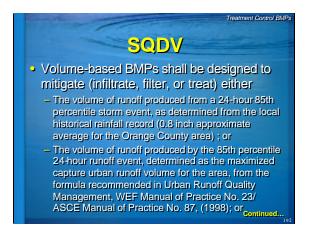


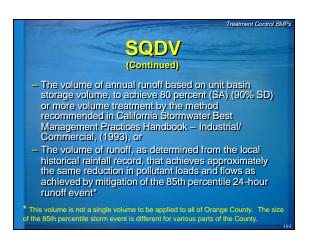


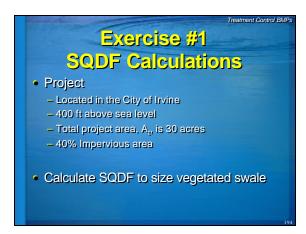


-	TO THE REAL PROPERTY.	Treatment Control BMPs
	Basis of Desi	ign
	Treatment Control BMP	Design Basis
Ve	getated (Grass) Strips	
Ve	getated (Grass) Swales	SQDF
Ну	drodynamic Separators	
Dry	Detention Basin	
We	t Detention Basin	
Co	nstructed Wetland	
Det	tention Basin/Sand Filter	
Poi	rous Pavement Detention	SODV
Poi	rous Landscape Detention	300
Infi	iltration Basin	
Infi	iltration Trench	
Ме	dia Filter	
Ну	drodynamic Separators	
Base	d on DAMP Table 7.II-5	190

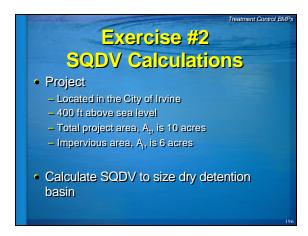


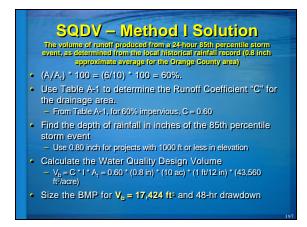






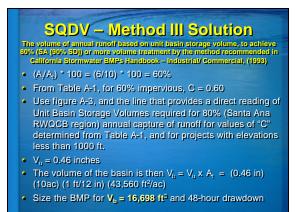


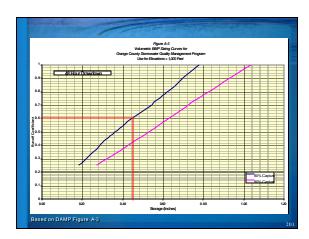




C Values Based on Impervious/Pervious Area Ratios						
0	100	0.15				
5	95	0.19				
10	90	0.23				
15	85	0.26				
20 25	80	0.30				
	75	0.34				
30	70	0.38				
35	65	0.41				
40	60	0.45				
45 50	55 50	0.49				
55	45	0.53				
55 60	45 40	0.56				
65	35	0.60				
70 75	30 25	0.68				
80 85	20 15	0.75 0.79				
90	10	0.79				
90	5	0.86				
100	0	0.90				

SQDY — Nethod I Solution The volume of runoif produced by the 35th percentile 24-hour runoif event, determined as the maximized capture urban runoif volume for the area, from the formula recommended in Urban Runoif Quality Management, WEF Manual of Practice No. 27 ASCE Manual of Practice No. 37, (1998) • P₀ = (a * C) * P₀ • C = Runoif Coefficient = 0.858 j² - 0.78 j² + 0.774 j + 0.04 • i = Watershed imperviousness ratio = percent total imperviousness divided by 100 = 0.60 • P₀ = mean storm precipitation volume, watershed inches. Using Figure 5.3 in the manual, P6 = 0.65 inches • a = Regression constant from least-square analysis. Using Table 5.4 in the manual for 48-hours drain time, a = 1.963 • P₀ = Maximized deternion volume using either the volume capture ratio as its basis, watershed inches — C = 0.858 (0.60)³ - 0.78 (0.60)² + 0.774 (0.60) + 0.04 = 0.409 — P₀ = (1.963 * 0.409) * 0.65 = 0.522 inches — V_b = 0.522 (10 acre) (1 ft/12 in) (43,560 ft/4acre) • Size the BMP for V_b = 18,949 ft3 and 48-hour drawdown





The volume of runoif, as determined from the local historical rainfall record, that achieves approximately the same reduction in pollutant loads and flows as achieved by mitigation of the 35th percentile 24hour runoif event. • Under this volume criterion, hourly rainfall data may be used to calculate the 85th percentile storm event, where each storm event is identified by its separation from other storm events by at least six hours of no rain. If hourly rainfall data is selected, the Permittees shall describe the method for using hourly rainfall data to calculate the 85th percentile storm event in their local WQMPs

SQDV - Wethod IV

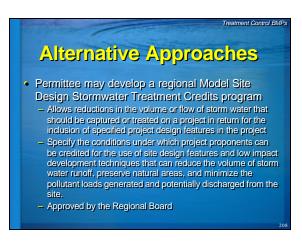
Restrictions on Use of Infiltration BIVIPs • Grading permits may limit or prohibit the use of infiltration BMPs in hillside or other special situations where slope stability and subsurface stability are of concern

- Infiltration BMPs should not be implemented if the runoff poses a threat to groundwater contamination
- Coordinate with Orange County Water District

Protection of Grounclyvater Quality (continued) Minimum distances from base of infiltration BMP 10 ft min. vertical to the seasonal high groundwater mark 100 ft min. horizontal to any water supply wells Soil physical and chemical characteristics are adequate for proper infiltration durations and treatment of urban runoff for the protection of groundwater beneficial uses Mitigate any groundwater contamination caused by the infiltration system

Protection of Groundwater Quality (Continued) Infiltration BMPs shall not be used in areas of industrial or light industrial activity areas subject to high vehicular traffic (25,000 or greater average daily traffic on main roadway or 15,000 or more average daily traffic on any intersecting roadway) automotive repair shops car washes fleet or RV storage areas (bus, truck, etc.) nurseries other high threat to water quality land uses and activities as designated by the Permittee

Valver of Treatment SIVIP Requirements Permittees may provide for a project to be waived from implementing treatment BMPs if infeasibility can be established Waiver may be granted only when all available treatment BMPs have been considered and rejected as infeasible Burden of proof is on the project proponent to demonstrate that all available measures are infeasible Waivers may only be granted for treatment BMPs and BMP sizing requirements Permittee that implements a waiver program may also develop a WQMP waiver impact fee program Permittee shall notify the RWQCB if a WQMP waiver impact fee program is developed



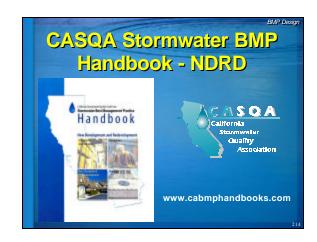
WQMP for Watershed Based Approach If a project is in a watershed where a Regional Program can be considered or has been adopted, the WQMP should Describe or reference the Regional Program Describe how the project will participate or contribute to the program

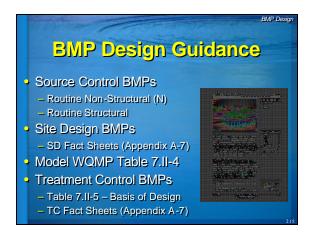
WQNIP Preparation ✓ Section I – Tract or Discretionary Permit Numbers, WQ Conditions (and numbers) ✓ Section II – Project Description ✓ Section III – Site Description ✓ Section IV – BMPs • Section IV – Inspection/Maintenance Responsibility for BMPs • Section VI – Location Map, Plot Plan & BMP Details • Section VII – Educational Materials

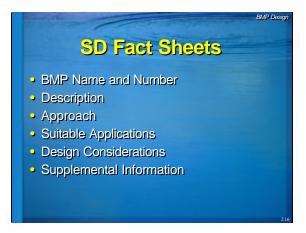


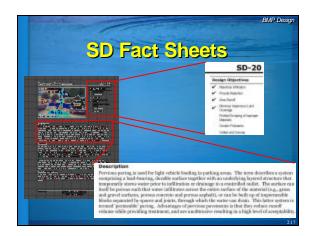


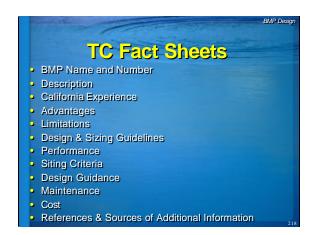


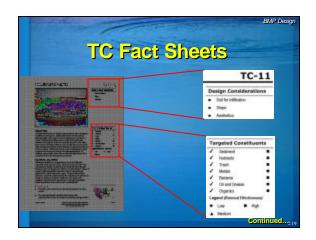


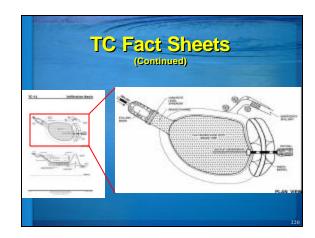


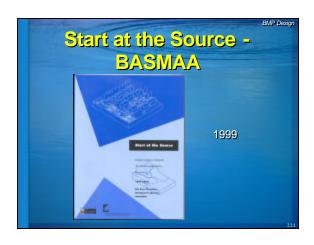


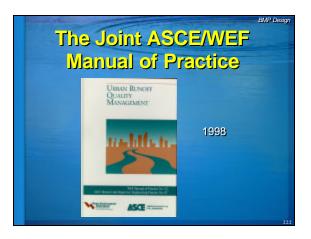






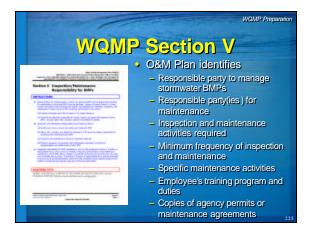


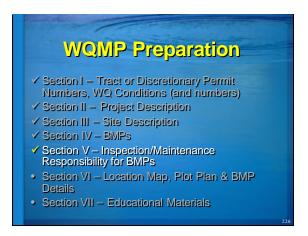




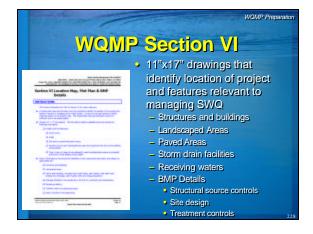


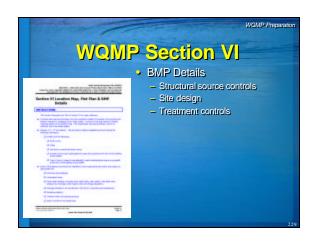


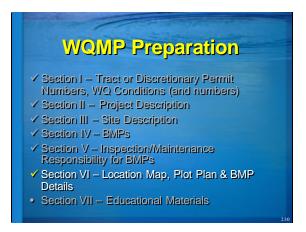


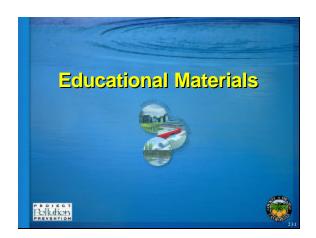


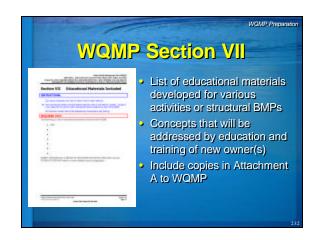


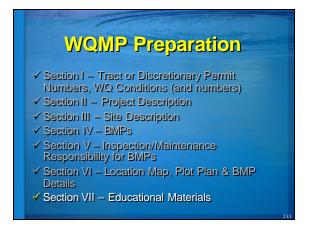




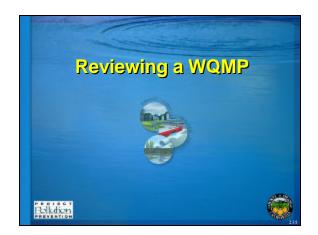




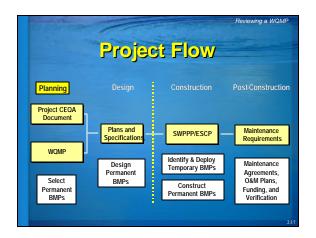


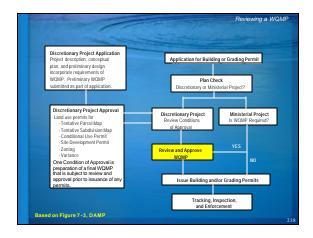


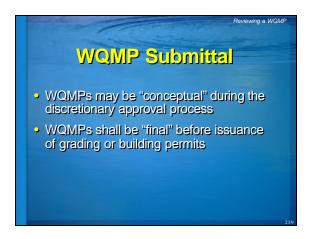


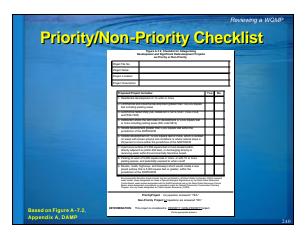


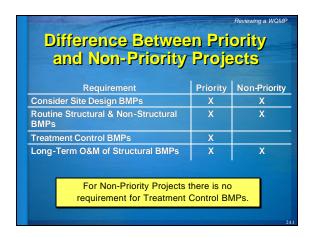


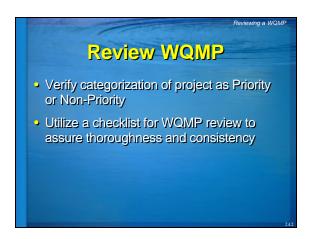


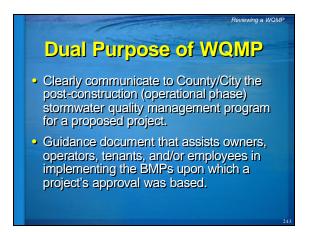


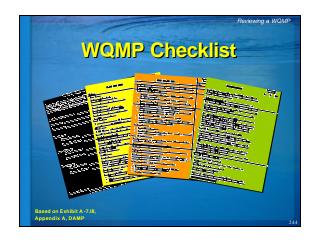


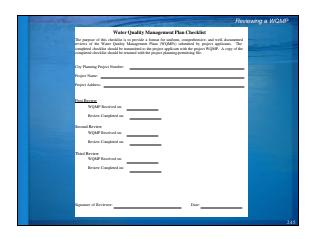


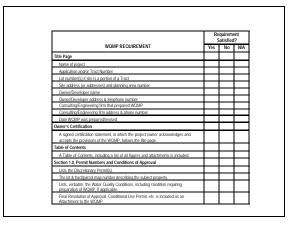


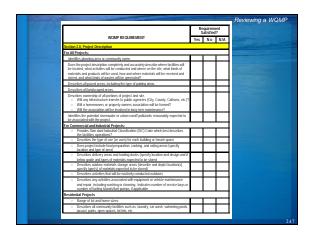


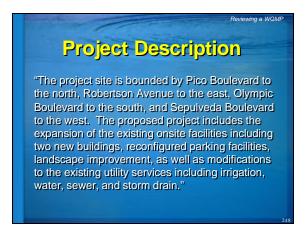


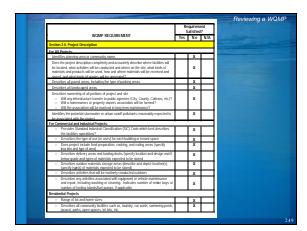


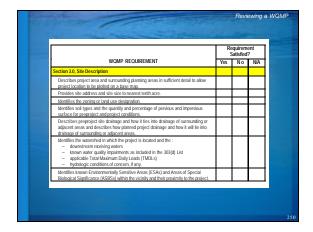






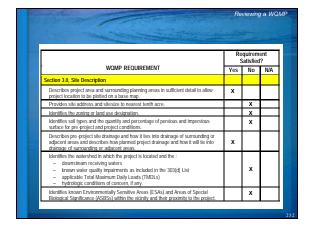


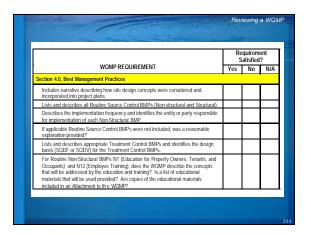


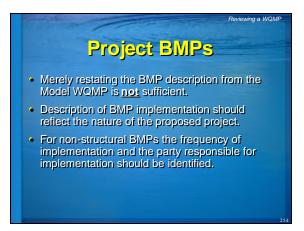


Site Description

"The project site is located on the east side of Badger Street between Elm and Hickory Avenues in the City of Oz. The site is flat and vacant and scraped of vegetation. Properties to each side of this site are developed as commercial buildings. The site, composed of one lot, drains in its existing condition from east to west to Badger Street. This sheet flow is to continue after development."







Description of BMP lmplementation

N11, Common Area Litter Control

· Two-Story Professional Office Building

Trash receptacles will be placed at both entrances of the building. Building maintenance staff will empty the trash receptacles each morning. On a weekly basis the landscape maintenance contractor will collect litter from the parking lot and landscaped areas.

Continued...

Description of BMP Implementation (continued)

· Convenience Food Mart

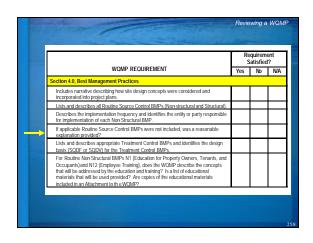
Two trash receptacles will be placed at the entrance of the building and one trash receptacle will be placed at two locations on the site perimeter adjacent to the walkways that connect to the public sidewalks. The approximate locations are denoted on the Site Plan. The facility manager will empty the trash receptacles and collect litter from the parking lot and landscaped areas each morning. The facility manager will inspect trash receptacles each afternoon and will empty as necessary.

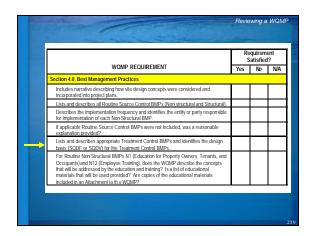
Continued...

Description of BMP Implementation (continued)

Education and Training (N1 and N12)

- The educational or training materials described and included in the WQMP should reflect the facilities and activities to be conducted at the Project post-construction.
- Educational or training materials that are not directly relevant to a Project should not be included.

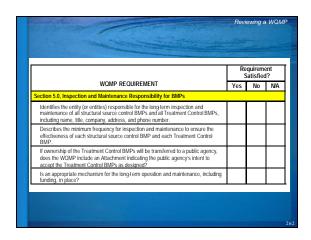




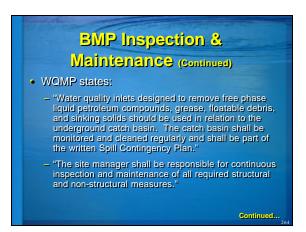
Appropriate Treatment Control BIMPs Proposed Project: 300 unit condominium development in a moderate income neighborhood; one garage for each residential unit; limited guest parking; car washing prohibited by CC&Rs as proposed by developer Developer proposes to install proprietary catch basin inserts in each Project catch basin. Manufacturer product information included in appendix.

Appropriate Treatment Control BMPs (continued) • Manufacturer information states that the catch basin insert "is recommended for

 Manufacturer information states that the catch basin insert "is recommended for areas with higher than normal amounts of sediment and debris and moderately high levels of petroleum hydrocarbons.
 Examples of appropriate applications are public streets, equipment storage and/or maintenance yards, and industrial facilities."

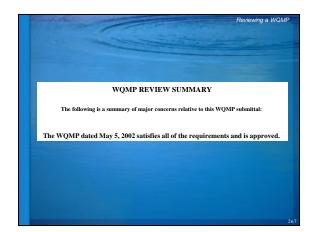


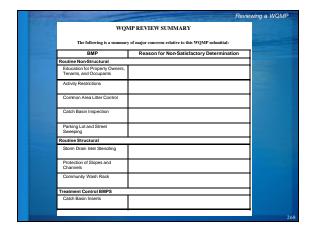
BIMP Inspection & Wash with Fueling Island
Developer proposes to install proprietary catch basin inserts in the one onsite catch basin. Manufacturer product information included in appendix.





WQMP REQUIREMENT	Requirement Satisfied?		
	Yes	No	N/
Section 6.0, Location Map and Plot Plan			
Has an 11" by 17" plot plan been included?			
Do all figures, maps, plot plans, etc. have a legend, including a North arrow and scale?			
Are all facilities labeled for the intended function?			
Are all areas of outdoor activity labeled?			
Are all structural BMPs indicated?			
Is drainage flow information, including general surface flow lines, concrete or other surface ditches or channels, as well as sorm drain facilities such as catch basins and underground storm drain pipes depicted?			
Depicts where and how on -site drainage ties into the off-site drainage system.			





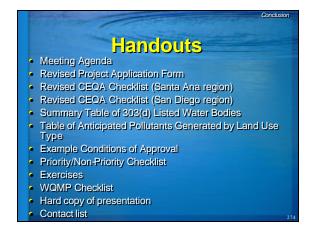


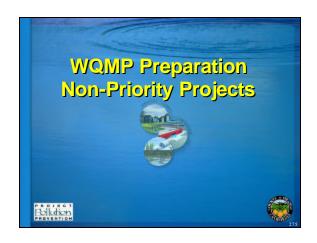










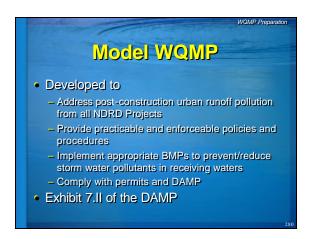




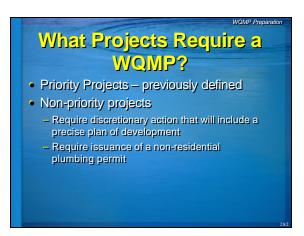




Why WQIMPS? New Municipal Permits require BMPs for NDRD projects DAMP requires all NDRD projects to describe BMPs in a WQMP New SA Permit required updated Model WQMP New SD Permit required Model SUSMP (equivalent to WQMP)



WQIVIP and Permit Compliance Based on the Regional Board-approved Model WQMP, the Permittees create their own local Model WQMP The Local Model WQMP Follows the Model WQMP Addresses both private and public agency projects Focuses on local conditions Project owners (private or public) will prepare project-specific WQMPs



Priority Projects (require treatment BMPs or participation in regional treatment program) Residential: ≥10 units • Impervious surface ≥2,500 sq.ft. within, adjacent to, or Commercial/Industrial: discharging directly ESA >100,000 sq.ft. • Parking lots: ≥5,000 sq.ft. or Automotive repair shops with 15 or more parking Restaurant: ≥5,000 sq.ft. Hillside Development · San Diego Region:streets, roads, highways, freeways creating ≥5,000 sq.ft. new payed surface.

Proof of Ongoing
BMP Maintenance

BMPs not consider "effective," and not accepted as meeting MEP, unless long-term maintenance mechanism is in place for all structural BMPs

- Permittee

- Project proponent

Naintenance Mechanisms Public Entity Maintenance Project proponent agreement to maintain storm water BMPs Assessment districts Lease provisions Conditional use permits Alternative mechanisms

