Proposed Renewal of the County of Ventura "Municipal Separate Storm Sewer System" (MS4) Permit Workshop

> Regional Water Quality Control Board Los Angeles Region April 5, 2007

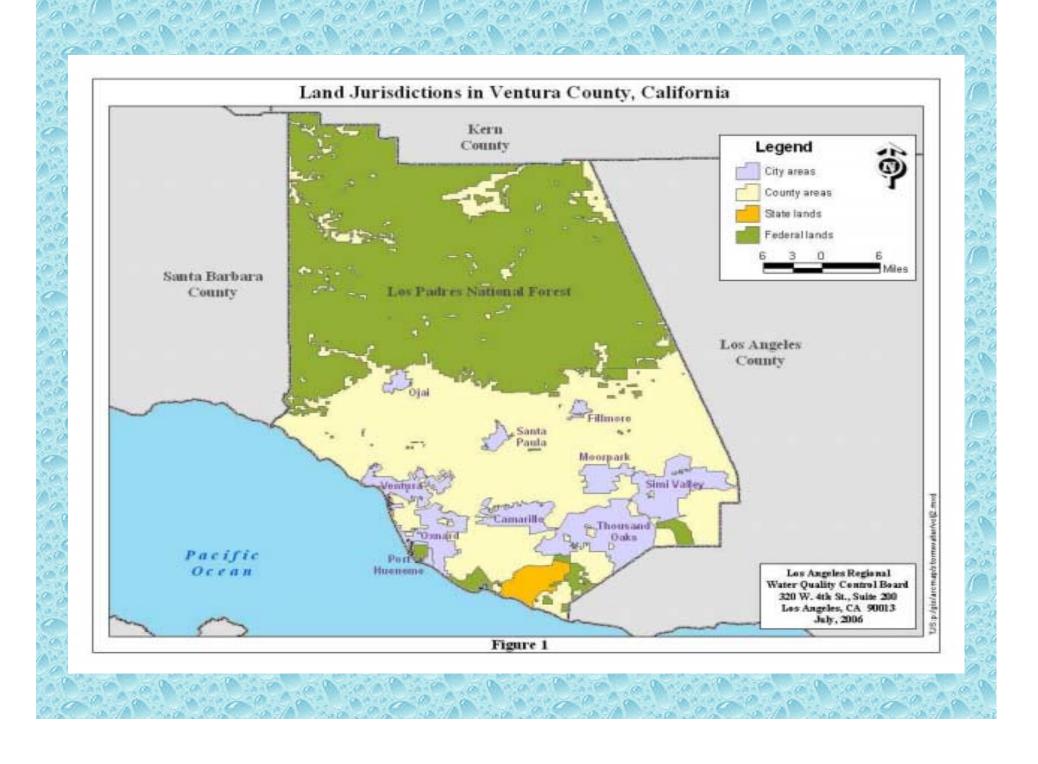
MS4 Permitting History – Ventura County

- Clean Water Act Section 402 (p) (1987)
- 40 CFR 122.26 (1990)
- Part 1 and Part 2 MS4 permit application
 - City of Thousand Oaks
 - City of Oxnard
 - Unincorporated Ventura County
 - Ventura County Flood Control District

MS4 Permitting Background – Ventura County

- Area wide designation
- Consolidated Part 2 application (1993)
- First term Ventura County MS4 Permit (1994)
 - Program development
- Second term Ventura County MS4 Permit (2000)
 - Program implementation

MS4 Permitting -Main Advancements in Third Term **Transparency and Accountability** • Municipal Action Levels (MALs) Specified Best Management Practices • Numerical criteria to reduce runoff volume Low Impact Development implementation • Waste Load Allocations for wet weather









Municipal Storm Drain Systems Within Ventura County

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211	CO-PERMITTEE AGENCIES	OPEN CHANNEL SOFT SIDE	OPEN CHANNEL HARD SIDE	OPEN CHANNELS HARD SIDE	UNDERGROU NG STORM DRAINS	DITCHES	GUTTERS	OTHER STORM DRAIN	TOTAL LENGTH	6 10 A
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0	Principal Co-permittee									100
19 10	VCWPD	409,728	307,296	204,864	102,432	-	-	-	1,024,320	C
1.0	Co-permittees									2.5
1	City of Camarillo	-	-	-	400,00	32,178	2,956,800	1.095	3,390,073	11 Do
	County of Ventura	29,568	22,176	14,784	7,392	-	-	-	73,920	0
00	City of Fillmore	-	-	300	35,500	1,000	316,800	-	353,600	100
1010	City of Moorpark	-	-	-	136,000	10,000	940,000	22	1,086,022	
	City of Ojai	-	-	7,920	31,680	-	337,920	-	377,520	200
	City of Oxnard	63,360	15,840	26,400	211,200	-	2,112,00	-	2,428,800	3
9.4	City of Port Hueneme	5,000	-	-	66,000	-	440,000	-	511,000	
19	City of Ventura	9,477	-	9,869	-	76,603	-	1,708	97,657	C
9.0	City of Santa Paula	582	-	-	96,817	18,174	633,600	-	749,173	10 × 1
51.0	City of Simi Valley	4,000	-	1,000	553,115	-	3,146,880	-	3,704,995	6 10 B
0	City of Thousand Oaks	-	534	-	790,164	-	5,533,440	-	6,324,138	9
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MS4 Permit

 This Permit represents a challenge and a willingness to achieve an effective goal oriented Storm Water Program by both the Ventura Countywide Storm Water Quality Management Program and the Los Angeles Water Board

Public Information & Participation Program – Objectives

- Increase public awareness of the potential impacts on storm water quality common activities can have, such as vehicle maintenance and improper household waste materials disposal
- Create an increase in public knowledge of storm water regulations



Public Information & Participation Program – Current

- Existing Requirements
 - Designation of staff contact(s) to provide storm water quality information
 - Implementation of educational activities and participation in county wide events
 - Distribution of outreach materials to the general public and school children
 - Distribution of educational materials to industrial/commercial facilities



Public Information & Participation Program – New Provisions

- Additional Pollutant-Generating Activities
 Targeted for Educational Outreach
- Organization of Watershed Citizen Advisory Groups/Committees
- Option to Provide Funds to the Environmental Education Account in Lieu of Providing Funding to School Districts



Public Information & Participation Program – New Provisions Implementation of a Corporate Outreach Program



Illicit Connections & Illicit Discharges Elimination Program – Objective

 Each Permittee shall eliminate all Illicit Connections and Illicit Discharges (IC/ ID) to the storm drain system.



Illicit Connections & Illicit Discharges Elimination Program – Current

- Existing Requirements
 - Investigation of illicit discharge/dumping incidents
 - Referral of non-storm water discharges and connections to an appropriate agency



Illicit Connections & Illicit Discharges Elimination Program – New Provisions

- Mapping required of permitted connections to storm drain systems
- Field screening for illicit connections to storm drain systems required
- Investigation of reported suspected illicit connections

Industrial & Commercial Program

General Objectives

- To reduce and control the contribution of pollutants in storm water from sites of industrial/commercial activity
 - Establish the responsibilities of the municipal operator to control pollutants discharged through municipal systems

Source: FR 11/19/1993

Industrial & Commercial Program – Current

- Site Visits
- Type of Facilities
 - Automotive Service
 - Food Service
 - Phase I facilities notification of need to comply with IASGP
 - Additional facilities to be identified based on Pollutants of Concern
- Emphasis on Education
 - Distribution of educational materials
 - Site visits, once every 24 months

Industrial & Commercial Program – Proposed Provisions

- Education Only Not Enough
 - Education-only visits are simply not enough for all sites
 - Inspections do make a difference
- Target the Pollution Sources
 - Critical source sites that contribute disproportionately to storm water pollution

Industrial & Commercial Program – Proposed Provisions

- Require and confirm the implementation of a minimum set of mandatory BMPs
- Frequency of inspections
 - Twice in five years
- Same categories of facilities covered with the addition of non-agricultural nurseries

Focus on Source Control





Focus on Source Control

Land Development Planning

General Objectives

- To maintain the pre-construction natural hydrology of the site to reduce adverse impacts
- To select the most appropriate suite of postconstruction storm water controls during project planning and design for implementation during construction

Land Development Planning Categories – Current

Existing New Development Categories

- Hillside residences, ten or more unit housing developments
- 100,000 square feet or greater commercial developments
- Automotive repair shops, retail gasoline outlets, and restaurants
- Parking lots 5,000 sq. ft. or greater
- Projects situated in or adjacent to environmentally sensitive areas

Land Development Planning Provisions – Current Existing Planning Provisions

- Peak flow rate control
- Water quality volume/ flow criteria
- Modify CEQA guidelines and checklist to address storm water mitigation
- Incorporate watershed and storm water elements in General Plans during significant rewrite

Land Development Planning

Specific Objectives of Proposed Changes

- Implement flow/volume control measures to prevent hydromodification / protect stream habitat
- Implement an integrated approach to removing pollutants, reducing runoff, and reusing storm water
- Reduce effective impervious area to less than five percent of project area
- Implement Low Impact Development (LID) strategies

Land Development Planning Categories – Proposed Proposed Categories - New

- Disturbed land area of one acre or greater
- Streets, roads, highways 5,000 sq. ft. or greater
- Industrial parks 5,000 sq. ft. or greater
- Commercial strip malls 5,000 sq. ft. or greater

Land Development Planning Categories – Proposed Categories - Continuing

- Parking lots 5,000 sq. ft. or greater
- Projects situated in or adjacent to environmentally sensitive areas
- Automotive repair shops, retail gasoline outlets, and restaurants

Land Development Planning Provisions – Proposed Proposed Development Planning Provisions

- Tiered numerical hydromodification criteria
- Tiered water quality mitigation design criteria
- Post construction BMP maintenance and transfer agreement
- Post construction BMP inspection and tracking
- Regional and Redevelopment Area Mitigation alternative

Land Development Planning Provisions – Proposed

Categories – Continuing

- Modify CEQA guidelines and checklist to address storm water mitigation
- Incorporate watershed and storm water elements in General Plans during significant rewrite

Development Construction Program Objectives

- Reduce/eliminate sediment loss
- Sediment a primary pollutant impacting beneficial uses
- Sedimentation/siltation adversely affect fish spawning
- Other pollutants adsorb onto sediment particles

Development Construction Program Current Categories

- Storm Water Pollution Control Plan (SWPCP)
- Signatory and proper site oversight requirements
- Proof of notice of intent (NOI) before city permits are issued
- Educational outreach and wet season inspection with follow-up and enforcement, as necessary
- Training of city/county inspectors

Development Construction Program New Provisions

- Grading Prohibitions
- Minimum set of best management practices (BMP) Requirements
- Inspection Requirements
- Interagency Coordination



Development Construction Program Grading Prohibitions

- Wet season (October 1-April 15) land disturbance prohibition only at sites that fall in one or more of the following criteria:
 - Hillsides with 20% or steeper slopes
 - Sites directly discharging to a 303 (d) water body listed for siltation or sediment
 - Within or adjacent (200 feet) to an environmentally sensitive area (ESA)

Development Construction Program Additional Requirements

- Build upon the program already being implemented
- Optimize the inspectors presence onsite
- Standardize best management practices (BMPs) for construction activities
- Standardize legal requirements and enforcement countywide



Development Construction Program Additional Requirements

- Site propensity to lose massive sediments in wet season despite best efforts
- Examples include a canyon residence tract and another site which impacted Malibu Creek
- Only approximately less than 8% of active construction sites in Ventura impacted by the prohibition
- Permittees may request Executive Officer for a waiver for good cause

Development Construction Program Minimum Set of BMPs

- Acreage based approach
- Includes best management practices (BMPs) for roadway paving and repaving operations
- Commonly used BMPs and recommended by California Storm water Quality Association and Caltrans
- Provides the option of BMP substitution

Public Agency Activities – Existing

- A Model Storm Water Pollution Control Plan for each City Yard
 - Includes General BMPs
 - Discharge Prohibitions
- Trash Management Controls Street Sweeping
- Storm Drain Maintenance and Cleaning
- Staff Training

Public Agency Activities – Proposed

- Standardized Permitting and BMPs for Construction Activity, Public Works/Capital Improvement Projects
- Post Construction Controls for Public Projects
 consistent with Private Projects
- Standard Trash Management Controls
- Storm Drain Maintenance and Treatment Controls
- Conditionally Allowing Municipal Potable Water Supply Discharges

Sewage System Operations

- Sewage System Operations
 - Implement a Response Plan
 - Maintain System
 - Provide Notification to Appropriate Agencies (2 hrs)
 - Initiate Immediate Response to Overflows/Spills (2 hrs)

Public Construction Projects Equal to Private Requirements

- Development Planning Requirements Apply
- Construction Requirements Apply
- Capital Improvement Projects must obtain Separate Construction NPDES Storm Water Permit
- Linear Construction Requires a Separate Linear Construction NPDES Storm Water Permit

Public Agency Activities – Changes

- Corporation Yards Vehicle Maintenance Areas, etc...
 - Standard Implementation of General and Activity-Specific BMPs
- Landscape and Parks
 - Implement Integrated Pest Management (IPM) Program
 - Training of Pesticide Applicators to Reduce Discharge of Pesticides to Environment
 - Encouraging Use of Water Saving Native Plants

Storm Drain Operation

- ABC Prioritization of Catch Basins for Cleaning and when 25% full
- Trash Mgmt at Public Events
- Trash Receptacles at Transit Stops and Install and Maintain Catch Basin Trash Excluders in Commercial Areas and near Schools
- Maintenance of Storm Drains before Rains
- Inspect and Maintain Publicly Owned Treatment Controls

Public Agency Requirements – Changes

- Street Sweep Commercial Areas and near Schools 2x/month
- Municipal Industrial Activities Require Separate NPDES Permit

Restoration

Watershed Ecological Restoration Planning

- Purpose of restoration reestablish ecological integrity
- Purpose of planning provide a tool
- CWA § 303(d) list of impaired waterbodies
- Watershed Ecological Restoration Plan (ERP) and Annual Watershed Ecological Restoration Status Report (ERSR)



Watershed Ecological Restoration Planning

- ERP contains basic restoration principles:
 - Addressing ongoing causes of degradation.
 - Focusing on feasibility
 - Developing clear, achievable & measurable goals
 - Involving a multi-disciplinary team such as:
 - Wetlands Recovery Project
 - Ventura County Task Force of the Wetlands Recovery Project

Watershed Ecological Restoration Planning

- ERSR is developed on the ERP and includes:
 - Background Information
 - Evaluation of site conditions
 - Progress towards goals, linked to specific stressors and measurement endpoints
 - Bioassessment monitoring data

Protecting Our Resources

Total Maximum Daily Load (TMDL) Provisions

- MS4 TMDL Waste Load Allocations (WLAs) have been incorporated into this Permit
- WLAs are expressed as provisions
- WLAs have monitoring requirements



TMDL Provisions

- MS4 TMDL WLAs that have been adopted and incorporated into this Permit are:
 - Santa Clara River Nitrogen Compounds
 - Malibu Creek Bacteria
 - Calleguas Creek Toxicity, Chlorpyrifos, and Diazinon
 - Calleguas Creek Organochlorine Pesticides, Polychlorinated Biphenyls (PCBs), and Siltation



Monitoring Program

- New provisions consist of:
 - Relocation of the ME-SCR
 - Submittal of Monitoring Data Electronically
 - Total Suspended Solids (TSS) Testing
 - Toxicity Reduction Evaluation (TRE) Corrective Action Plan
 - Tributary Monitoring
 - MS4 TMDL WLA Monitoring
 - Special Studies





Reporting Program

- Reporting Program requires an Annual Report
- Annual Report is composed of:
 - Monitoring Report
 - Program Report
- Details of Annual Report questions to be determined

Ventura County Municipal Storm Water Permit – Draft

Significant Advancements

- Municipal Action Levels
- Hydromodification Control Criteria
- Low Impact Development Strategies
- Wet Season Hillside Grading Restriction
- Monitoring for Compliance
- TMDL Implementation