



Linda S. Adams  
Agency Secretary

# California Regional Water Quality Control Board

## Central Coast Region



Arnold Schwarzenegger  
Governor

Internet Address: <http://www.waterboards.ca.gov/centralcoast>  
895 Aerovista Placc, Suite 101, San Luis Obispo, California 93401-7906  
Phone (805) 549-3147 • FAX (805) 543-0397

December 18, 2008

**BY ELECTRONIC AND REGULAR MAIL**

Carl Niizawa, Deputy City Engineer  
[carln@ci.salinass.ca.us](mailto:carln@ci.salinass.ca.us)  
City of Salinas  
200 Lincoln Ave.  
Salinas, CA 93901-2639

Dear Mr. Niizawa;


### **WATER BOARD APPROVAL OF REVISIONS TO SALINAS STORMWATER DEVELOPMENT STANDARDS**

On September 4, 2008, the Central Coast Water Board (Water Board) adopted Resolution No. R3-2008-0068, which approved the Salinas Stormwater Development Standards, contingent on Salinas incorporating a list of required revisions into the Development Standards. On December 5, 2008, the Water Board passed a motion to rescind Reference Numbers 2 and 3 of the attachment to Resolution No. R3-2008-0068. On December 5, 2008, following the motion to rescind, the Water Board passed a motion approving the list of required revisions as included in Attachment 7 of the Water Board agenda packet for this item (Item #22). Attachment 7 contains required revisions for Reference Numbers 2 and 3 and is attached.

The City of Salinas must revise the Stormwater Development Standards no later than January 20, 2009 to include all of the changes shown in the attachment.

If you have questions, please contact **Jennifer Epp** at (805) 594-6181 or **Matt Thompson** at (805) 549-3159.

Sincerely,

  
Roger W. Briggs  
Executive Officer

Attachments: Table of Required Revisions dated November 14, 2008

See cc's on next page

**California Environmental Protection Agency**



Recycled Paper

Cc (via email):

City of Salinas Staff and Consultants:

Chris Callihan: [chrisc@ci.salinas.ca.us](mailto:chrisc@ci.salinas.ca.us)  
Dale Roskamp: [daler@ci.salinas.ca.us](mailto:daler@ci.salinas.ca.us)  
Denise Estrada: [denisee@ci.salinas.ca.us](mailto:denisee@ci.salinas.ca.us)  
Mike Ricker: [mikeri@ci.salinas.ca.us](mailto:mikeri@ci.salinas.ca.us)  
Chris Conway: [ChrisConway@KennedyJenks.com](mailto:ChrisConway@KennedyJenks.com)

NPDES Stakeholder Committee:

Gary Shallcross: [gary\\_shallcross@csumb.edu](mailto:gary_shallcross@csumb.edu)  
Steve Shimek: [exec@otterproject.org](mailto:exec@otterproject.org)  
Robin Lee: [landgaze@hotmail.com](mailto:landgaze@hotmail.com)  
Traci Roberts: [traci@montereycfb.com](mailto:traci@montereycfb.com)  
Ken Tunstall: [kenneth@tunstallengineering.com](mailto:kenneth@tunstallengineering.com)  
Dan Matthies: [DMatthies@WoodRodgers.com](mailto:DMatthies@WoodRodgers.com)  
Sue Shaffer: [sshaffer@creekbridge.com](mailto:sshaffer@creekbridge.com)

Other Interested Parties:

Jeff Denham, State Senator, 12<sup>th</sup> District  
369 Main Street, #208  
Salinas, CA 93901

Anna Caballero, Assemblywoman, 28<sup>th</sup> District  
100 West Alisal Street, Suite 134  
Salinas, CA 93901

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ATTACHMENT TO RESOLUTION R3-2008-0068

**Table of Revisions Required by the Central Coast Water Board to  
The City of Salinas Stormwater Development Standards (SWDS) for New Development  
and Significant Redevelopment Projects, October, 2008 Revision**

As Adopted on December 5, 2008

Acronyms:

BMP            Best Management Practice  
 IMP            Integrated Management Practice  
 LID            Low Impact Development  
 MEP            Maximum Extent Practicable

Ref. No.	SWDS Section	Required Revision
2	Section 1.5, <i>Stormwater Management</i>	<p>Add the following underlined text:</p> <p>Overall, stormwater management practices for development shall rely on a "tiered" approach. The first tier shall be site design planning per Section 1.5.1 to avoid and preserve natural drainage features, minimize topography changes, maintain the same overall size of drainage areas that discharge to receiving waters. The second tier shall be site source control measures that minimize stormwater contamination and pollutant transport. The third tier shall be stormwater treatment controls using LID techniques (e.g. IMPs) consistent with the numeric criteria listed in section 1.5.3. <u>Projects shall employ on-site stormwater BMPs to infiltrate, disperse and retain stormwater onsite to the MEP without causing flooding or erosion impacts.</u> Full implementation of all three tiers is required for development approval.</p>
3	Section 1.5.3, <i>Numeric Criteria for Stormwater Management</i>	<p>Add the following underlined text and remove the following strikethrough text:</p> <p>All applicable projects per the criteria listed in Section 1.4.1 shall be required to meet the following <del>stated</del> numeric requirements:</p> <ol style="list-style-type: none"> <li>1. All new development projects shall direct runoff from 100% of the area of new impervious surfaces <del>(equivalent to 0% Effective Impervious Area)</del> into BMPs meeting the requirements of these standards. <u>This is equivalent to 0% Effective Impervious Area.</u> Exceptions may be allowed for driveways when grade breaks are located to minimize the area draining to the street. Plans for new development projects not meeting this requirement will only be approved if the applicant demonstrates, to the satisfaction of the City Engineer, that the full achievement of such is impracticable.</li> <li>2. All redevelopment projects shall direct runoff from a minimum</li> </ol>

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Ref. No.	SWDS Section	Required Revision
		<p>of 95% of the area of new impervious surface area <del>(equivalent to 5% or less Effective Impervious Area)</del> into BMPs meeting the requirements of these standards. <u>This is equivalent to 5% or less Effective Impervious Area.</u> Plans for redevelopment projects not meeting this requirement will only be approved if the applicant demonstrates, to the satisfaction of the City Engineer, that the full achievement of such is impracticable.</p> <p>3. The project applicant shall prepare an exhibit showing the entire site divided into discrete drainage areas and demonstrate in submitted site stormwater control plans (SWCPs) that for each discrete drainage area either <del>(1) the following numeric criteria are met:</del></p> <p style="padding-left: 40px;">A. <u>Volume Reduction Requirements:</u> Runoff from impervious areas produced by the <del>first 24-hour 85th percentile storm (currently 0.6 inches of rainfall for the City of Salinas) is either (1) detained and infiltrated or (2) runoff is routed to BMPs meeting the requirements of these standards. retained, or (2) detained and allowed to infiltrate and/or seep away slowly, as occurs in a bioretention facility designed with a minimum 18 inches of soil, a design surface loading rate not exceeding 5 inches/hour, and a total volume (including surface detention, soil interstices, and subsurface storage) equal to the volume of runoff produced by the first 0.6 inches of rainfall on the drainage area tributary to the facility.</del></p> <p style="padding-left: 40px;">B. <u>Water Quality Treatment Requirements:</u> All <u>treatment BMPs must be adequately sized to treat runoff from the designated drainage area</u> per the following numeric criteria:</p> <p style="padding-left: 80px;">(1) A. All flow based BMPs shall be sized to, at minimum, <u>to the maximum flow rate of runoff from the designated specific drainage area using the 85th percentile hourly rainfall intensity multiplied by two.</u> For the City of Salinas, this equates to <del>a rainfall intensity of 0.22 inches per hour.</del></p> <p style="padding-left: 80px;">(2) B. All volume based BMPs shall be sized, at minimum, <u>for the volume of runoff produced by the drainage area from a 24-hour 85th percentile storm event.</u> For the City of Salinas, this equates to a rainfall depth of 0.6 inches.</p> <p style="padding-left: 40px;">C. Project applicants must comply with 3., 3.A. and 3.B.</p>

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Ref. No.	SWDS Section	Required Revision
		<p align="center">above by following and applying the BMP design methodologies, guidelines and considerations in Section 4, Stormwater Design Considerations</p> <p>4. <u>In addition</u>, <del>Ffor</del> all new development and redevelopment projects that result in an increase of <del>creating or replacing</del> one acre or more of impervious surfaces, the project applicant shall <u>either</u>:</p> <ul style="list-style-type: none"> <li>A. <del>Demonstrate post-project runoff rates—peaks and durations do not exceed pre-project pre-development runoff rates—peaks and durations where such increases could accelerate downstream erosion or harm beneficial uses. The project applicant may demonstrate compliance with this requirement by either of the following methods: for storm events up to and including the 10-year 24-hour event with a continuous simulation computer model of runoff in the pre-project and post-project condition using 30 years or more of local hourly rainfall data, or</del></li> <li>B. <u>Conduct an assessment incorporating sediment transport modeling across the range of channel-forming flows that demonstrates to the City Engineer's satisfaction that the project flows and sediment reductions will not detrimentally affect the receiving water. Channel-forming flows include up to the 10-year event unless the assessment demonstrates otherwise.</u></li> <li><del>B. A. For each discrete drainage area, show runoff from impervious areas produced by the first 0.6 inches of rainfall is either (1) detained and infiltrated, or (2) detained and allowed to infiltrate and/or seep away slowly.</del></li> <li><del>C. B. Create a computer continuous simulation of runoff in the pre-project and post-project condition using 30 years or more of local hourly rainfall data.</del></li> </ul>