



Caltrans District 8 Stormwater Update

ASCE Stormwater Committee Meeting
May 24, 2011





Introduction

- How Caltrans implements the CGP under its current MS4 Permit
- 2010 SSP revisions: S5-630, 07-340, 07-345
 - New bid items for SW Annual Report, REAPs & Stormwater Sampling and Analysis Day
- 2010 PPDG revisions
- 2010 SWDR template revisions
 - Treatment BMP Strategy (T-1 worksheets)
 - Attachments: Risk Level Assessment, RUSLE2 worksheets



Introduction

- 2011 process changes
 - LRP authorization to local entities
 - Water Quality Planning Tool Update
 - New Construction forms
 - Risk Level Re-assessments for projects grandfathered in at Risk Level 1
- Caltrans MS4 Permit renewal status
- Other news: 2010 Standards



How Caltrans implements the CGP (for now)

- Current MS4 Permit covers construction activities in Caltrans ROW
- Projects administered by Caltrans
 - NOI & NOT is not filed in SMARTS [one exception]; NOC & NOCC is filed with the Regional Board
 - Projects qualifying for the Small Construction Rainfall Erosivity Waiver file form CEM2005 in lieu of an NOC
 - LRP in each District is the DD or delegate
 - RE is the Approved Signatory
 - CEM2006 filed with project documents



How Caltrans implements the CGP (for now)

- Projects administered by a Local Agency
 - NOI/NOT is filed in SMARTS, with PRDs
 - LRP for the Local Agency authorizes the Approved Signatory for the LA
 - If the local agency does not have a 'real estate interest' (held in fee, leasehold or easement) on part of the project per the CGP, Caltrans must authorize the local agency as the LRP. This is now done via clauses inserted into the Construction Cooperative Agreement.



2010 SSP Revisions

- S5-630 – rev 06-10-10
 - References the CGP, added clause to cover projects qualifying for the SCR Erosivity Waiver
- 07-340 – rev 08-06-10
 - A QSP must be the WPC Manager & prep the WPCP
 - Projects qualifying for the SCR Erosivity Waiver prep a WPCP instead of a SWPPP & use this SSP
- 07-345 – rev 08-06-10
 - A QSD must be the WPC Manager & prep the SWPPP
 - Includes clauses for Annual Report, REAPs, Sampling and Analysis Day as appropriate for risk level
 - NALs and NELs



2010 PPDG Revisions

- Outlined in the July 2010 memo to Design from the HQ Office of SW Management
 - Risk Level to be determined during each phase & documented in the SWDR
 - Consideration of Treatment BMPs has changed to evaluate LID-type BMPs
 - Associated guidance for Risk Level Determination
 - Appendix B- guidance for Treatment BMP design is now stand-alone for each type to allow for more flexibility to update
 - Appendix F updated with new bid items



2010 SWDR Revisions

■ New SWDR templates

- Must be used for all projects approved after November 2010, per the July 2010 memo
- CGP definitions of 'routine maintenance' work allows many more types of projects to use the short form
- Long form- T-1 checklists revised completely to reflect new LID approach to Treatment BMPs
- Long form- New attachments required
 - Risk Level Determination worksheets (all phases)- we need the EPA printout of the R-value and the source of the K & LS values used
 - RUSLE2 Summary sheets (@ PS&E)



Guidance:

<http://www.dot.ca.gov/hq/oppd/stormwtr/>

The screenshot shows a web browser window displaying the California Department of Transportation website. The page title is "Division of Design - Storm Water". The navigation menu includes Home, Travel, Business, Engineering, News, Maps, Jobs, About Caltrans, and Contact Us. The main content area is titled "Storm Water" and contains the following text:

In 1999, the State Water Resources Control Board (SWRCB) issued a National Pollutant Discharge Elimination System (NPDES) permit that regulates storm water discharges from Caltrans facilities. The permit requires Caltrans to maintain and implement an effective Storm Water Management Plan (SWMP) that identifies and describes the Best Management Practices (BMP's) used to control the discharge of pollutants to waters of the United States.

This Guide describes the process for Caltrans staff to incorporate the BMP's from the SWMP into the planning and design phases of a project. It is important to note that this guide provides only minimum guidelines, and that storm water controls other than what are included may need to be incorporated on a project-by-project basis to comply with special requirements from a Regional Water Quality Control Board. This Guide may be updated as needed to reflect changes to the SWMP.

The July 2010 is available to view or download in pdf format. This includes all replacement pages as of September 2010. The replacement pages are available for printing if you received a previous hard copy.

→ **New!** [July 2010 PPDG/SWDR Implementation Memo](#)

→ **New!** [The Storm Water Quality Handbook - Project Planning and Design Guide](#) (July 2010) is available to view or download in pdf format.

→ [Project Planning and Design Guide Cover \(July 2010\)](#)

→ [Replacement pages to the July 2010 PPDG](#)

→ Storm Water Data Report (SWDR)

→ **New!** [SWDR Files - July 2010](#)

→ [SWDR Instructions](#)

→ [SWDR Short Form](#)

→ [SWDR Long Form](#)

→ [SWDR Long Form and Attachments](#)

→ **New!** [SWDR Attachments - July 2010](#)

→ [SWDR Evaluation Documentation Form](#)

→ [SWDR Construction Consideration Form](#)

→ [SWDR SW Checklist 1](#)

→ [SWDR SW Checklist 2](#)

→ [SWDR SW Checklist 3](#)

→ [SWDR DPP Checklist](#)

→ [SWDR T Checklist](#)

→ **New!** [SWDR CS Checklist](#)

RELATED LINKS

- [Landscape Architecture Program](#)
- [Pavement](#)
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Guidance:

<http://www.dot.ca.gov/hq/oppd/stormwtr/>

Division of Design - Storm Water - Windows Internet Explorer provided by D8 HelpDesk 383-HELP(4357)

<http://www.dot.ca.gov/hq/oppd/stormwtr/>

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Division of Design - Storm Water

- » DOD Site Map
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» **New!** SWDR Attachments - July 2010

- » [SWDR Evaluation Documentation Form](#)
- » [SWDR Construction Consideration Form](#)
- » [SWDR SW Checklist 1](#)
- » [SWDR SW Checklist 2](#)
- » [SWDR SW Checklist 3](#)
- » [SWDR DPP Checklist](#)
- » [SWDR T Checklist](#)
- » **New!** [SWDR CS Checklist](#)
- » [SWDR May 2007 - Old Version](#)

» **New!** [SWDR Examples](#)

» **New!** [Project Risk Level Determination Guidance](#)

» **New!** [Rainfall Erosivity Waiver Form and Guidance - Rainfall Erosivity Waiver Form \(CEM2005\) Erosivity Waiver Order of Work](#)

» **New!** [Estimating Guidance for CGP](#)

» **New!** [Construction Site BMPs \(Specifications, Standard Plans, and Guidance\)](#)

» **New!** [T-1 Checklist Infiltration Tool](#)

» **New!** [Erosion Prediction with RUSLE2](#)

» [Infiltration Tool \(coming soon\)](#)

» [Treatment BMP's \(Plans, Specifications and Guidance\)](#)

» Device modifications you should know about:

- » [Gross solids Removal Device \(GSRD\) Fact Sheet](#)
- » [Partial Sedimentation Austin Vault Sand Filter \(AVSF\) Fact Sheet](#)

» The following classes are scheduled for 2010/11:

- » [RUSLE2 Training](#)
- » [SWDR Workshop](#)
- » [PPDG Training](#)

Go to LMS to see class dates.

» Related PPDG Documents.

- » [SWDR for Local Funded Projects - July 31, 2003 memorandum](#)

» Other [Stormwater links](#).

Trusted sites 100%



Guidance:

<http://www.dot.ca.gov/hq/oppd/stormwtr/risk-guidance.htm>

The screenshot shows a Windows Internet Explorer browser window displaying the California Department of Transportation website. The page title is "Division of Design - Storm Water". The browser address bar shows the URL: <http://www.dot.ca.gov/hq/oppd/stormwtr/risk-guidance.htm>. The website header includes the "CALIFORNIA DEPARTMENT OF TRANSPORTATION" logo and a navigation menu with links for Home, Travel, Business, Engineering, News, Maps, Jobs, About Caltrans, and Contact Us. The main content area is titled "Project Risk Level Determination Guidance" and "Caltrans Stand-Alone Risk Level Determination Guidance". It contains text explaining the Construction General Permit (CGP) and the Risk Level (RL) calculation process. There are also sections for "Risk Level Determination Webinar" and "Recording of the RLD Webinar". The page includes a search bar, a "Skip to" menu, and a "Done" status bar at the bottom.

Division of Design - Storm Water - Windows Internet Explorer provided by DB HelpDesk 383-HELP(4357)

<http://www.dot.ca.gov/hq/oppd/stormwtr/risk-guidance.htm>

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Division of Design - Storm Water

Skip to: [Content](#) | [Footer](#) | [Accessibility](#) Search

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.GOV

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Office Engineer / Advertised Highway Projects / Plans and Specifications / Bids Opened & Awarded Contracts

Caltrans > Engineering > Division of Design > Manuals & Guidance > Storm Water

Project Risk Level Determination Guidance

Caltrans Stand-Alone Risk Level Determination Guidance

Caltrans has stand-alone guidance for assessing risk required by the new Construction General Permit (CGP) (State Water Board Order 2009-0009-DWQ) that went into effect on July 1, 2010. The CGP is a risk-based permit that establishes three levels of environmental risk possible for a construction site.

The Risk Level (RL) is calculated in two parts: 1) Project Sediment Risk, and 2) Receiving Water Risk. Caltrans Project Engineers and Consultants should use this guidance to determine if a project has a Risk Level 1, 2 or 3. The CGP Risk Level (RL) determination quantifies sediment and receiving water characteristics and uses these results to determine the project's overall RL. Highly erodible soils, in higher rainfall areas, on steep slopes increase the 'sediment risk'.

Monitoring and reporting requirements increase as the RL goes from 1 to 3.

New! [PROJECT RISK LEVEL DETERMINATION-GUIDANCE](#)

Risk Level Determination Webinar

A 2-hour webinar was presented on December 7, 2010 focused on Caltrans' guidance for determining project risk level. The presentation covered both GIS and Individual Methods as they apply to Caltrans projects. A question and answer session followed the presentation.

New! [RLD WEBINAR](#)

Frequently Asked Questions

FAQs have been compiled into a single document. This includes questions on determining risk level received while developing the guidance and during the webinar's question and answer session.

New! [FAQ-RISK LEVEL DETERMINATION](#)

Recording of the RLD Webinar

A digital recording of the December 7, 2010 webinar includes audio and visual for the presentation.

New! [RLD WEBINAR RECORDING](#)

Done Trusted sites 100%



Guidance:

<http://www.dot.ca.gov/hq/oppd/stormwtr/rusle2.htm>

The screenshot shows a Windows Internet Explorer browser window displaying the California Department of Transportation website. The page title is "Division of Design - Storm Water". The main content area is titled "Erosion Prediction with RUSLE2" and includes a sub-section for "Caltrans RUSLE2 Software".

Navigation: Home | Travel | Business | Engineering | News | Maps | Jobs | About Caltrans | Contact Us

Left Sidebar:

- AB 1012 Implementation
- CADD Resource Files
- Context Sensitive Solutions
- Cooperative Agreements
- Cost Estimating
- Design-Build
- District Liaisons
- Innovative Contracting
- Manuals & Guidance
- Metric to English Transition/Program
- Project Acceleration
- Resolutions of Necessity
- Resource Conservation
- Storm Water
- Value Analysis

RELATED LINKS:

- Landscape Architecture Program
- Pavement
- DOD Site Map
- Contact Division of Design
- Get Adobe Acrobat Reader
- Get Adobe Reader
- Trouble with Acrobat Reader?

Main Content:

Erosion Prediction with RUSLE2

Caltrans > Engineering > Division of Design > Manuals & Guidance > Storm Water

Caltrans RUSLE2 Software

The Revised Universal Soil Loss Equation, version 2 (RUSLE2) is an advanced, user-friendly software model that predicts long-term, average annual erosion by rainfall. Modified as "Caltrans RUSLE2," this software is streamlined for use on large, roadway construction projects and includes commonly used Best Management Practices (BMPs). This version of Caltrans RUSLE2 (March, 2011) includes:

- BMP management options and folder titles are more intuitive for the user.
- Compost Erosion Control Blankets (CECBs).
- 24-inch diameter fiber rolls (permanent).
- Earthworks (cut, fill, track walking) associated with all construction activities have been improved.
- All pre-existing and post-construction vegetation have been modeled to California native growth patterns, with summer dormancy for annual grasses.
- Compatibility with the current RUSLE2 version 2.0.4.0 (2011) developed by the USDA/ARS and NRCS.
- Effectiveness of all RECBs and mulch materials have been calibrated to two independent studies conducted in Texas and San Diego, California.

Effectiveness of all permeable barriers is based on more realistic storm water and surface water flow conditions.

NEW! [CALTRANS RUSLE2 INSTRUCTIONS FOR INSTALLATION](#)

NEW! [DOWNLOAD CALTRANS RUSLE2 ZIP FILE](#)

Erosion Prediction Procedure

The Erosion Prediction Procedure (EPP) defines a method to predict erosion rates at construction sites. The EPP includes a series of steps to properly characterize project sites and facilitate more accurate evaluation of the anticipated erosion and the effectiveness of proposed soil stabilization and sediment control practices. The procedure introduces the concept of a Maximum Allowable Erosion Rate (MAER) for the construction and post-construction phases to establish a performance goal for comparing calculated erosion rates.

NEW! [EPP PDF FILE](#)

Caltrans RUSLE2 Training

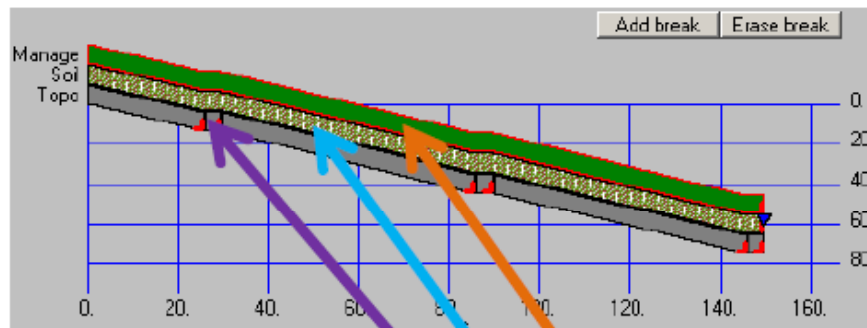
This 8 hour, advanced course presents RUSLE2 modified for Caltrans use as a tool for predicting surface erosion and selecting temporary and permanent BMPs. It covers requirements in the new Construction General Permit (CGP) for Risk Level Determination (RLD) and NOT/NOCC related to RUSLE2. This class is listed in LMS as "Design-Erosion Prediction using RUSLE2" course code: 100604.



Caltrans RUSLE2:

<http://www.dot.ca.gov/hq/oppd/stormwtr/rusle2.htm>

RUSLE2 – Slope Layers



Location
 Avg. slope steepness, % 51
 Horiz. overland flow path length, ft 150

- 1) Top = Management options
(e.g., vegetation, BMPs, fiber rolls, etc)
- 2) Middle = Soil (rarely changes)
- 3) Bottom = Topography
 - Used to construct terraces, changes in slope.
 - More of a design tool than an erosion protection tool.

Final Stabilization

New Water Quality Planning Tool



Water Quality Planning Tool - Beta - Windows Internet Explorer provided by D8 HelpDesk 383-HELP(4357)
 http://owp-ct-testweb.sacink.csus.edu/

This is a beta version of the new Water Quality Planning Tool. Do not use for design or construction. A final version will be available soon.

Layers

- Watersheds
- Post Miles
- Monthly Precipitation
- 303(d) List and TMDLs
- Caltrans Facilities
- Soils

Compliance Storm Events

- [5-Year 24-Hr North](#)
- [10-Year 24-Hr North](#)
- [5-Year 24-Hr South](#)
- [10-Year 24-Hr South](#)

[USGS Topographic Map](#)

Information
 Hover over a layer name for a description
[Help](#)

Hydrologic Unit	SANTA ANA RIVER	Hydrologic Area	Middle Santa Ana River	Hydrologic Sub-Area #	801.27
Hydrologic Sub-Area Name	Riverside	Planning Watershed	4801270000	Watershed Area (acres)	50190
Average Annual Rainfall (inches)	42.8	Latitude, Longitude	34.0017, -117.357	RUSLE L S	6.12

TMDLs & 303(d) Listed Waterbodies (2006 List)

Key: [Water body on 303\(d\) list](#) [Water body with a TMDL](#)

Name	Pollutant	Size	Status
Santa Ana River, Reach 3	Pathogens	26 Miles	Being Addressed by USEPA Approved TMDLs
Santa Ana River, Reach 4	Pathogens	14 Miles	TMDL Required



New Water Quality Planning Tool

Water Quality Planning Tool - Beta - Windows Internet Explorer provided by D8 HelpDesk 383-HELP(4357)

http://owp-ct-testweb.sadink.csus.edu/

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Compliance Storm Events

- [5-Year 24-Hr North](#)
- [10-Year 24-Hr North](#)
- [5-Year 24-Hr South](#)
- [10-Year 24-Hr South](#)

[USGS Topographic Map](#)

Information
This layer shows Caltrans facilities

- Park & Ride
- Rest Area
- Maintenance Station

Hydrologic Unit	SANTA ANA RIVER	Hydrologic Area	Middle Santa Ana River	Hydrologic Sub-Area #	801.27
Hydrologic Sub-Area Name	Riverside	Planning Watershed	4801270000	Watershed Area (acres)	50190
Average Annual Rainfall (inches)	12.8	Latitude, Longitude	34.0017, -117.357	RUSLE LS	6.12

TMDLs & 303(d) Listed Waterbodies (2006 List)

Key: [Water body on 303\(d\) list](#) [Water body with a TMDL](#)

Name	Pollutant	Size	Status
Santa Ana River, Reach 3	Pathogens	26 Miles	Being Addressed by USEPA Approved TMDLs
Santa Ana River, Reach 4	Pathogens	14 Miles	TMDL Required

Done



New Construction Forms

<http://www.dot.ca.gov/hq/construc/stormwater/inspection.html>

Division of Construction Forms - Windows Internet Explorer provided by D8 HelpDesk 383-HELP(4357)

<http://www.dot.ca.gov/hq/construc/stormwater/inspection.html>

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Division of Construction Forms

Capacity Expansion (ICE)

- Build California
- Hot Mix Asphalt Construction (HMA)
- Construction Districts
- Contact Construction

RELATED LINKS

- Stormwater Main Page
- Map of Ongoing Construction Projects
- SWPPP/WPCP Templates (2007)
- SWPPP/WPCP Templates (2003)
- SWPPP Attachments (2007)
- SWPPP Attachments (2003)
- WPCP Attachments (2007)
- WPCP Attachments (2003)
- Construction Compliance Evaluation Plan
- ** Errata in "Construction Compliance Evaluation Plan" [doc]
- Stormwater Pollution Prevention Bulletins
- Stormwater Pollution Prevention Training Courses
- Construction Storm Water Coordinators [pdf]

ADDITIONAL LINKS

- Stormwater Quality Handbook Project Planning and Design Guide
- Environmental Stormwater

Please note the forms are in Adobe Acrobat Portable Document Format (PDF). You can open and complete the form but not save a finished copy on your computer. To prepare a copy for submittal or for your records, print the completed copy.

STORMWATER INSPECTION FORMS

- Form CEM-2001, National Pollution Discharge Elimination System Annual Certification
- Form CEM-2002, Notification of Construction
- **NOTE** Form CEM-2003 is obsolete and has been replaced by form CEM-2090
- Form CEM-2004, Notification of Construction (Desert Areas)
- Form CEM-2005, Notification of Rainfall Erosivity Waiver
- Form CEM-2006, Legally Responsible Person Authorization of Approved Signatory
- Form CEM-2008, WPCP Amendment Certification and Acceptance
- Form CEM-2009, SWPPP-WPCP Amendments Log
- Form CEM-2023, Stormwater Training Record
- Form CEM-2024, Stormwater Training Log
- Form CEM-2030, Stormwater Site Inspection Report
- Form CEM-2031, Daily Stormwater Site Inspection Report
- Form CEM-2034, Stormwater Best Management Practices Status Report
- Form CEM-2035, Stormwater Site Inspection Report Corrective Actions Summary
- Form CEM-2040, Weather Forecast Log
- Form CEM-2041, Weather Monitoring Log
- Form CEM-2045, Rain Event Action Plan—Highway Construction Phase
- Form CEM-2046, Rain Event Action Plan—Plant Establishment Phase
- Form CEM-2047, Rain Event Action Plan—Inactive Project
- Form CEM-2048, Storm Event Sampling and Analysis Plan
- Form CEM-2049, Qualifying Rain Event Sampling and Analysis Plan
- Form CEM-2050, Sample Information, Identification, and Chain-of-Custody Record
- Form CEM-2051, Stormwater Sampling and Analysis Log
- Form CEM-2052, Stormwater Sample Field Test Report
- Form CEM-2054, Stormwater Sample Laboratory Test Report
- Form CEM-2055, Stormwater Equipment Maintenance Log
- Form CEM-2056, Stormwater Turbidity Meter Calibration Record
- Form CEM-2057, Stormwater pH Meter Calibration Record
- Form CEM-2058, Stormwater Meter Calibration Record
- Form CEM-2061, Notice of Discharge Report
- Form CEM-2062, Numeric Action Level Exceedance Report
- Form CEM-2063, Numeric Effluent Limitation Violation Report
- Form CEM-2065, Notice of Discharge Log
- Form CEM-2070, SWPPP WPCP Annual Certification of Compliance

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New Caltrans MS4 Permit

■ Timeline

- Released for public review January 7 2011, comments closed March 14:
http://www.swrcb.ca.gov/water_issues/programs/stormwater/caltrans_ms4_comments.shtml
- A revised draft may be released in summer – or not- final is expected by the end of 2011
- The criteria for post-construction treatment in the current draft is 10,000 sq ft or more DSA, or, added impervious area of 5,000 sq ft or more
- The other major impact to Caltrans will be the new monitoring requirements – HQ estimates there are about 60.....



New 2010 Standards

<http://www.dot.ca.gov/hq/esc/oe/standards.php>

The screenshot shows a Windows Internet Explorer browser window displaying the Caltrans Office Engineer website. The address bar shows the URL <http://www.dot.ca.gov/hq/esc/oe/standards.php>. The page content is organized into a sidebar and a main content area. The sidebar includes sections for 'STANDARDS' and 'GENERAL INFORMATION'. The main content area lists various standard categories, with the '2010 Standards' section highlighted by a red rectangular box. The 2010 Standards section includes links for Standard Plans, Standard Specifications, SSPs, Style Guide, Quick Guide, and Guidance Documents. At the bottom of the page, there are links for 'Back to Top', 'Contact Office Engineer', 'Conditions of Use', and 'Privacy Policy'. The browser's status bar at the bottom indicates 'Trusted sites' and '100%' zoom.

Caltrans - Office Engineer - Windows Internet Explorer provided by D8 HelpDesk 383-HELP(4357)

<http://www.dot.ca.gov/hq/esc/oe/standards.php>

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Caltrans - Office Engineer

Contracts

- New Contract award status
- Post-bid files

STANDARDS

- Construction Contract Standards

GENERAL INFORMATION

- About Us
- Bidder Survey
- Contact Office Engineer
- Contractor Info Table
- Cost Information
- Federal Wages
- File Format Information
- Frequently Asked Questions
- Latest Updates
- Ready to List (RTL) Guide (with updates)
- Send Us Feedback
- Special Notices
- Website Feature Tour

Manuals for Plan preparation

- 2006 Standards (US Customary Units):
 - [Standard Plans](#)
 - [Plan Updates](#)
 - [Standard Specifications](#)
 - [Amendments to the Standard Specifications \(S1-020\)](#)
 - [SSPs](#)
 - [SSP Updates](#)
 - [Bridge Reference Specifications](#)
 - [Templates](#)
 - [Style Guide](#)
 - [Style Guide Q&A](#)
- 2002 Standards (Dual Units - Not updated after 7/1/03):
 - [Standard Plans](#)
 - [Standard Specifications](#)
 - [SSPs](#)
- 1999-2004 Standards (Metric Units - Not updated after 7/1/08):
 - [Standard Plans](#)
 - [Standard Specifications](#)
 - [Amendments to the Standard Specifications](#)
 - [SSPs](#)
 - [Bridge Reference Specifications](#)
 - [Style Guide](#)

2010 Standards (documents not yet available for hardcopy purchase):

- [Standard Plans](#)
- [Standard Specifications](#)
- [SSPs](#)
- [Style Guide](#)
- [Quick Guide](#)
- [Guidance Documents](#)

→ Superseded plans, including 1999 Standard Plans and earlier can be found [here](#).

Back to Top | [Contact Office Engineer](#)

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Questions ?

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Office of Storm Water Quality

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