There are requirements on the use and configuration of **LID BMPs**. These are contained within **Section 3.0 BMP Design Configuration Requirements.**

SWDS Section 3.0 also contains **Table 1: City of Salinas Stormwater Infiltration System Design Standards.** This table outlines the setbacks for direct and indirect types of infiltration practices.

SWDS Section 4.0 contains the procedures for **Best Management Practice (BMP) Sizing.** Refer to this section requirements for different types of **LID BMPs.**

SWDS Section 5.0 contains **Conventional Storm Drainage System Design Requirements.** This section provides criteria for the design of conventional stormwater infrastructure including storm drainage pipeline systems that deliver flows to, and convey flows from, LID measures.

SWDS Section 6.0 contains **Guidance-LID Measures.** This section provides information that designers may find useful in the process of selecting **LID BMPs** within the City.

The **SWDS Appendices** provide supporting documentation such as the current **March 2012 NPDES Permit**, **LID Planting Zones and Plant List,** Salinas Rainfall Data and a **Sample Maintenance Declaration** to name a few.

Bio-Swale/Curb Bulb Extension

Linear Bio-Retention

C i t y   o f   S a l i n a s

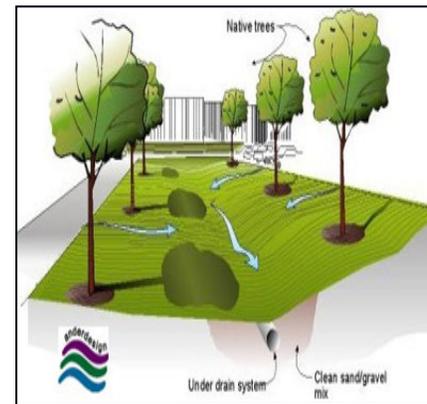**E n g i n e e r i n g   a n d   T r a n s p o r t a t i o n   D e p a r t m e n t**

Permit Center

65 West Alisal St., Suite 101
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City of Salinas
Permit Center

Information Resource Brochure

Salinas 2013 Storm Water Development Standards (SWDS)

General Overview and Use

Information provided for your use by the City of Salinas Permit Center

NOTE:

This brochure has been prepared to help Engineers, Architects, Geologists, Planners, Designers, Developers and residents in their preparation of development plans and reports to be submitted for review by the Permit Center staff. This brochure is intended to provide an introduction to the **Salinas 2013 Stormwater Design Standards (SWDS)**, found at http://www.ci.salinas.ca.us/services/engineering/engineering.cfm.

The City of Salinas was issued a new Storm Water Permit by the Central Coast Regional Water Quality Control Board on March 3, 2012. This permit requires all development to conform to **Low Impact Development (LID)** standards, maximize the use of **Best Management Practices (BMPs)** to filter storm runoff and to limit runoff from development to the pre-development case. The standards required to conform to the Permit are contained in the Salinas SWDS.

Section 1 of the **SWDS Introduction** explains the purpose of the **SWDS**, how they are organized and the project planning process. <u>All</u> projects are required to minimize impervious surfaces, directly connected impervious surfaces (i.e. downspouts connected directly to storm drains), treat storm water and design efficient landscaping to reduce runoff, irrigation and promote surface infiltration **(Refer to SWDS Section 2.2).** The requirements a project must include in the

design are determined by the amount of project area that consists of new and or replaced impervious and/or managed turf area.

Section 2.0 of the SWDS discusses the **Permit Requirements**, how the requirements are determined (**Threshold Determination and Design Spreadsheet-TDDS**), what projects/areas are exempt from inclusion in new and or replaced impervious and/or managed turf area and the requirement sets or what a project must comply with depending on the project's impact. A **TDDS** must be completed for each project in which new and or replaced impervious and/or managed turf areas will be present. An exhibit must be provided to scale showing the locations of the types of new/replaced surfaces included in the project.

If the **TDDS** completion results in the project being a Requirement 2 or above project, a **Conceptual (Preliminary) Stormwater Control Plan** (**PSWCP**) is required to be submitted for planning purposes. This document must be signed and stamped by a California licensed Civil Engineer or Landscape Architect and must contain the concept planned and preliminary design for the site to filter and detain/retain storm water to limit the runoff to the pre-development case. An accompanying exhibit showing the planned development and location of **BMPs** as part of an **Integrated Management Plan (IMP)** is required for the **PSWCP**. A final **Storm Water Control Plan** (**SWCP**) is required prior to

approval of site plans for all projects that meet Requirement 3 or higher thresholds. An erosion and sediment control plan for under 1 acre disturbance and **Storm Water Pollution Prevention Plan SWPPP)** if the project is over 1 acre of disturbance, are required prior to issuance of a building or similar permit. Prior to final of the permit, the applicant must provide the City with an **Operation and Maintenance Plan** along with the **Maintenance Declaration** approved by the City and subsequently recorded by the applicant with the Monterey County Recorder's office and file a **Notice of Termination (NOT)** for the site.

Preparation of the **PSWCP** should begin early in the design process. The City of Salinas Permit Center Engineering Section should be contacted (831-758-7251) and a meeting arranged to discuss the project and the requirements the project will need to meet during the review and design process. The layout of the site should provide for inclusion of Structural BMPs such as Bio-Swales, Bio-Retention, Filter Strips, minimizing direct connections and site fingerprinting such as locating those site soils that have the greatest potential for infiltration. Modification of the site permeability, time of concentration of storm runoff and magnitude of runoff is called "Hydro-modification". With both a topographic survey and geotechnical investigation, the existing rate of runoff from the site can be determined and approximated post development to minimize downstream/site impacts and the effects of hydro-modification.