# City of Roseville Stormwater Quality Proprietary Device Design Options

### **Option 1: Stand-Alone Treatment**

Preliminary testing on the proprietary devices listed below indicates that each of them should meet the City's basic treatment objective of 80% removal of Total Suspended Solids (TSS). Any of these stormwater treatment devices may be installed as standalone devices. For information on sizing, installation, and maintenances requirements please contact the device manufacture.

## FILTRATION DEVICES

VortFilter by CONTECH Inc. Stormfilter by CONTECH Inc. Aqua-Filter by AquaSheild Inc. Media Filtration System by CONTECH Inc. ecoStorm Plus by Royal Environmental Systems Inc.

## **VOLUMETRIC SEPARATORS**

StormVault by CONTECH

#### **BIORETENTION FILTERS**

Filterra by Americast

#### **Option 2: Treatment Trains**

A Treatment Train consists of two or more stages of treatment. Treatment Trains must meet the same objectives as the approved stand-alone devices (80% removal of TSS). The following devices are approved for use in the City of Roseville as "pretreatment" devices. Each of these devices has been laboratory tested and has demonstrated the ability to remove, at a minimum, 50% of TSS. Devices shall be followed by one or more of the following structures: wetland basin, detention basin, infiltration basin/trench, bio-retention area, stormwater planter or vegetated swale. For information on removal rates, sizing, installation and maintenances requirements for each item listed below, please contact the device manufacture.

### **HYDRODYNAMIC SEPARATORS**

VortSentry by CONTECH
CDS by CONTECH
Downstream Defender by Hydro International
BaySaver Separation System by BaySaver Technologies
Vortechs by CONTECH
Stormceptor by Imbrium Systems Corporation
Aqua-Swirl by AquaSheild Inc.

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