



One of many High Capacity Curb Inlet Basket™ inlet filters full of captured trash and sediment within a 6th Street catch basin. The Suntree High Capacity Curb Inlet Basket is able to be custom constructed to adapt to any type or size manhole access and is far more efficient at capturing and containing gross solid pollutants compared to the older inlet filter trap devices.

6th Street Stormwater Redevelopment Austin Pollution Prevention Cleans Up 6th Street

Austin, TX

Residing on the banks of the Colorado River, the city of Austin, TX has experienced a storied past as one of America's most prominent frontier settlements, dating back to the 1830s. Eventually the city would become the Texas capital and has become a well established tourism and entertainment destination for Texans, visitors and the like. 6th Street, in particular, is a prominent entertainment, restaurant and nightlife hub with ties to the Seaholm and Waller Creek districts of the Shoal Creek watershed. Though, businesses have been able to thrive with a steady stream of local and visiting patrons, the pollution generated as a result is a constant concern for Austin's aging stormwater management

systems. A vast amount of trash, debris and TSS pollution is generated daily which often ends up depositing into area storm drains. This can lead to clogging issues as well as impairment via pollution of the Colorado River, Shoal and Waller Creeks. Though some 6th Street curb inlets have had inlet traps installed in the early 1990s, these are outdated and insufficient devices unable to solve Austin's growing flooding and pollution issues.

As a result, in conjunction with engineering firm CH2M Hill, Austin conducted a research study to determine the best retrofit system for the 6th Street storm drains. They soon approved the purchase and installation of several Suntree Technologies, High Capacity

DESIGN & CONSTRUCTION TEAM

Owner
City of Austin, TX

Distributor
Construction EcoServices

Contractor
City of Austin, TX

Engineer
CH2M Hill

HCCIB Manufacturer
Suntree Technologies Inc

Austin Stormwater Redevelopment Helps Clean Up 6th Street Austin, TX



The outdated inlet filter traps that were previously installed in 6th Street are inefficient, cumbersome and can often be difficult and dangerous to service.



The successful performance of the 6th Street HCCIB filters will set the precedent for the implementation of several more inlet retrofits to filter stormwater flowing into nearby Waller Creek.

Curb Inlet Basket inlet filters through regional distributor, Construction EcoServices. These cost effective treatment devices will easily replace the existing inlet traps and adapt to the various size curb inlets throughout 6th Street. This solution will effectively mitigate a plethora of pollution issues surrounding the Shoal Creek Watershed.

HCCIB™ FILTERS YIELD BEST PERFORMANCE PRACTICES

The City of Austin, engineering firm CH2M Hill and regional stormwater management company, Construction EcoServices conducted a pilot study in 2012 to evaluate the performance of seven Suntree High Capacity Curb Inlet Baskets as compared to the existing inlet trap filters. The study encompassed the area of 6th Street in the Seaholm District, where an exorbitant amount of trash and TSS is generated. After conducting the study, Austin determined that the Suntree High Capacity Curb Inlet Baskets were vastly superior in cost efficiency and performance. The City of Austin subsequently ordered the installation of several High Capacity Curb Inlet Baskets throughout 6th Street via Construction EcoServices in May 2016.

PREVENTING POLLUTION IN THE TEXAS CAPITAL CITY

The High Capacity Curb Inlet Basket (HCCIB) is a specialized inlet filter used for curb inlets where the only access element is a manhole. Designed and manufactured by Suntree Technologies Inc®, an Oldcastle Infrastructure™ company, and distributed by Construction EcoServices, these multistage filtration systems will capture a variety of different size and type pollutants during storm events, from fine sediment to trash and debris. The HCCIB utilizes a unique “Shelf System” which conveys storm runoff along the inlet weir and into the filter basket. The filtration basket efficiently filters out trash and sediment from runoff, while an integrated StormBoom™ media sock simultaneously absorbs any floating hydrocarbons. During high volume flows, runoff will bypass filtration to maintain high level conveyance and avoid any localized flooding issues. The HCCIB is easy to install and simple to service whether by vacuum truck or by hand via an easy lift handle, affording a cost effective and efficient solution. This is desirable as it allows crews a safer means to service the inlets through the manhole. Crews had previously serviced inlet through the inlet mouth while crouched in the street, causing dangerous conditions for motorists and crew members.

The HCCIB installations were conducted in May 2016 as a joint effort between Construction EcoServices, CH2M Hill, Suntree Technologies Inc and the City of Austin. The implementation of these filters will vastly improve the pollution mitigation on 6th Street and hinder the impairment of Shoal and Waller Creeks as well as the nearby Colorado River. The success of the 6th street redevelopment project will add to the attraction of the Seaholm entertainment district, and simultaneously provide an invaluable TSS / trash capture network, improving local water quality, health and safety. Austin's commitment to protecting the ecosystems of the Shoal Creek Watershed will ensure its integrity for years to come.

HCCIB Units Manufactured By:



About Oldcastle Infrastructure

Oldcastle Infrastructure, A CRH Company, is the leading provider of building materials, products and services for infrastructure projects to several market sectors nationwide, including: Building Structures, Communications, Energy, Transportation and Water.

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