Stormwater Management Solutions
In addition to stormwater expertise, Contech offers a wide range of innovative, flexible product solutions engineered to solve your site’s unique challenges and reduce long term maintenance costs. From traditional BMP’s to LID solutions, our ongoing investment in robust laboratory and field evaluations ensure we have a variety of solutions to comply with local regulations so your projects get approved the first time.

With our responsive team of stormwater experts, local regulatory expertise and flexible stormwater management solutions, Contech is the trusted partner you can count on for stormwater management solutions.
STORMWATER CONSULTANT
I work with you to recommend the best solution to meet permitting requirements

STORMWATER DESIGN ENGINEER
I help develop your final design and deliverables

REGULATORY MANAGER
I understand the local stormwater regulations and what solutions will be approved

SALES ENGINEER
I make sure our solutions meet the needs of the contractor during construction

DESIGN
Provides engineers with technically focused recommendations

SPECIFICATION
Helps engineers develop an efficient solution

PERMITTING
Makes sure all recommendations are approved locally

INSTALLATION
Supports contractors and owners through the entire process

- Preliminary product recommendations
- Feasibility screening
- Layout assistance
- Cost estimates and options analysis
- Engineering calculations
- Specifications
- Site-specific drawings
- Submittal packages
- Product approvals
- Regulatory stakeholder engagement
- Field and lab evaluation
- Project-specific regulatory support
- Pricing and value engineering assistance
- Project coordination
- Installation guidance
- Issue resolution
- Customer service
Robertson Ranch, Carlsbad, CA: We helped reduce the land space required for stormwater treatment in this residential development, allowing for increased site amenities and improved aesthetics by providing 20 Filterra® Bioscape® Vaults that blended into the surrounding landscaping.

United Airlines Terminal, Houston, TX: Engineers first considered a 12-foot hydrodynamic separator from a competitor, but we showed how our smaller, eight-foot CDS® could meet the regulatory requirements of 70% TSS removal and lower costs for the owner.

U.S. Bank Stadium, Minneapolis, MN: Being built downtown, there was limited footprint for stormwater storage. We worked with the engineer to design a 144” diameter perforated, corrugated metal pipe retention system that provided the required storage in a constrained footprint.

Crossroads Parkway, City of Industry, CA: We provided seven Filterra® Bioretention Systems to meet the biofiltration requirement of the Los Angeles County MS4 permit; reducing the BMP footprint required in this highly developed, high land value site.

SR-28 Improvements, Incline Village, NV: A Jellyfish® Filter was installed to remove nutrients and fine sediment particles less than 16 microns to help improve the water quality of runoff entering Lake Tahoe.
How do I maximize land value for the owner?

City of San Jose, CA: We helped the City meet “Full Capture” trash regulations by providing seven CDS® hydrodynamic separators. Over 5,000 acres of San Jose is now protected by CDS systems, and trash from these areas will no longer make it into San Francisco Bay.

Walgreens, Ewing Township, NJ: We addressed invert constraints of the existing infrastructure and met regulatory requirements of 80% TSS removal using a CDS® hydrodynamic separator, a Peak Diversion Stormwater Management StormFilter® and a Jellyfish® Filter.

LaQuinta Inn, Portland, Maine: We helped solved a flooding problem and cut installation time in half by recommending an underground detention system CMP as an alternative solution to plastic crates. A combination of 84” and 96” CMP was used to provide 100,283 cf of storage in a very limited footprint.

Renton Middle School #4, Newcastle, WA: A large storage volume, fast installation, and our ability to provide a stamped structural design for the CON/SPAN® vault were all factors in selecting the Contech® solution for this large detention system.

Bucks County Justice Center, Doylestown, PA: The contractor was under a tight timeline to get this project completed on time. We helped retrofit the existing site with seven Filterra® Bioretention Systems. All seven systems were installed and activated in a total of two days.
Bioretention and biofiltration use the physical, chemical and biological mechanisms found in nature to capture and filter stormwater. Providing both water quantity and quality benefits, biofiltration is ideal for Low Impact Development (LID), Green Infrastructure, and Environmental Site Design projects. Plus, the presence of plants increases biological activity and enhances the appearance of your site.

The Filterra® Bioretention System is an engineered, prepackaged bioretention system incorporating high performance biofiltration media and plants. Its high media flow rate reduces the footprint significantly when compared with traditional bioretention systems and allows for easy integration into highly developed sites such as commercial areas, residential communities, parking lots and streetscapes.

Learn more:
www.ContechES.com/filterra

Engineered bioretention systems can reduce footprint up to 95%
### APPLICATION TIPS

- Modular, prefabricated bioretention systems like the Filterra® System can be used for both new construction and urban retrofits.
- They can be deployed in a variety of applications, both standalone and as part of an overall site plan (with other stormwater control techniques).
- Filterra meets regulatory pollutant removal goals for treatment of TSS, nutrients and metals.

### SELECT APPROVALS

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<tr>
<th>SELECT APPROVALS</th>
<th>FILTERRA</th>
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Detention and infiltration involves the use of vaults, chambers and pipes to temporarily store runoff. These structures often have open bottoms or perforations, allowing the excess water to be released slowly over time. In urban environments where there are competing demands for land, underground storage can provide many of the benefits of landscape-based systems but without requiring dedicated land area, thus maximizing the land value for the owner.

Subsurface infiltration in urban environments meets the objectives of LID by reducing runoff and recharging groundwater.
APPLICATION TIPS

- Our online Design Your Own Detention System (DYODS) Tool provides instant access to project specific drawings for the creation of plans and specifications.
- Corrugated metal pipe (CMP) is the most economical solution for underground storage.
- Increasing the depth of a detention system allows for more storage in the same footprint. Doubling the diameter of pipe yields four times as much storage volume in the pipe and reduced excavation and backfill costs.
- Outlet control devices can be incorporated within a CMP detention system, saving money by eliminating the need for a separate structure.
- A pretreatment device can prolong the life of a detention system by removing debris and sediment that can collect on the invert and within the stone backfill voids.
- Reduced long term maintenance or replacement cost of the infiltration system can help offset pretreatment construction costs.

The CON/SPAN® and Terre Arch™ precast detention systems combine a large storage volume with fast installation.
Learn more:
www.ContechES.com/conspan-detention
www.ContechES.com/terre-arch

The Contech® CMP detention system can be fully or partially perforated and sized and shaped to meet site-specific needs.
Learn more:
www.ContechES.com/dyods

Our ChamberMaxx® system is a corrugated, open-bottom plastic infiltration chamber providing economic infiltration below grade.
Learn more:
www.ContechES.com/chambermaxx

DuroMaxx® steel reinforced polyethylene (SRPE) pipe combines steel and polyethylene to make an exceptionally strong and durable pipe that can be made watertight.
Learn more:
www.ContechES.com/duromaxx

DuroMaxx Rainwater Harvesting Cisterns are available in sizes up to 120 inches in diameter and are leak tested and certified to be in compliance with the Uniform Plumbing Code (UPC®) to ensure a reliable long term storage solution.
Learn more:
www.ContechES.com/rwh
Filtration

Stormwater filtration systems use media or membranes to remove total suspended solids (TSS), hydrocarbons, nutrients, metals and other common pollutants from stormwater runoff. They can be housed in a vault, manhole, or catch basin and are used for both commercial and residential development, redevelopment and stormwater quality retrofit applications. They can also provide pretreatment for Low Impact Development, infiltration and rainwater harvesting and reuse systems.

Contech® provides two of the best known stormwater filtration systems. The Stormwater Management StormFilter® uses customized, rechargeable, media-filled cartridges while the JellyFish® Filter uses high surface area membrane filtration. Both systems can be used to improve water quality and to remove pollutants prior to discharge.
APPLICATION TIPS

- For applications targeting phosphorus, Contech® developed PhosphoSorb®, a filter media designed to remove both dissolved and particulate phosphorus.
- All filters will require periodic maintenance to ensure water quality. Selecting a device with a long maintenance cycle and low maintenance cost will result in healthy waterways and happy property owners.

Filtration provides the highest level of treatment for stormwater runoff.

APPLICATION TIPS

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SELECT APPROVALS / CERTIFICATIONS

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Hydrodynamic separators effectively remove sediment, hydrocarbons, trash and debris from stormwater runoff. These systems are often used as standalone and end-of-pipe treatment in both new and retrofit applications. They are also used as pretreatment to detention, infiltration, reuse and biofiltration to increase the service life of these systems by removing pollutants upstream. Contech® hydrodynamic separation products have been providing reliable stormwater treatment for more than 20 years. Whatever your site constraints may be, Contech’s family of HDS systems has you covered. CDS® provides 100% trash capture, Cascade Separator™ excels at sediment capture and Vortechs® is best suited for shallow applications.
Both the CDS and the Cascade Separator incorporate internal bypass weirs and have options for multiple inlet pipes and grate inlets which can reduce the overall number of structures required on a project.

APPLICATION TIPS

- The Cascade Separator™ is optimized to capture and retain sediment resulting in a small footprint treatment device.
- The CDS® uses both swirl concentration and a nonblocking screen to capture and retain 100% of floatables and neutrally buoyant debris 4.7mm or larger.
- The Vortechs® system is the ideal solution for projects that require a shallow treatment device due to groundwater, utility or bedrock constraints.

With over 40,000 installations and verifications from some of the most stringent stormwater technology evaluation organizations, Contech’s CDS® provides superior trash and sediment removal; capturing and retaining 100% of floatables and neutrally buoyant debris 4.7mm or larger.

For more information on operation, design and performance: www.ContechES.com/cds

The Cascade Separator® is the latest innovation in hydrodynamic separation from Contech. The Cascade uses advanced sediment capture technology to provide the highest sediment removal efficiency of any Contech HDS product. Cascade also captures trash and hydrocarbons.

Learn more: www.ContechES.com/cascade

SELECT CERTIFICATIONS

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<tr>
<th>SELECT CERTIFICATIONS</th>
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Few companies offer the wide range of high-quality stormwater resources you can find with us — state-of-the-art products, decades of expertise, and all the maintenance support you need to operate your system cost-effectively.

THE CONTECH WAY
Contech® Engineered Solutions provides innovative, cost-effective site solutions to engineers, contractors and developers on projects across North America. Our portfolio includes bridges, drainage, erosion control, retaining wall, sanitary sewer and stormwater management products.

TAKE THE NEXT STEP
For more information: www.ContechES.com
Contact your local representative: www.ContechES.com/localresources