



2024

Ohio Stormwater Conference

17th Annual



Presented by



May 8-10, 2024

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2024 Ohio Stormwater Conference



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Tinker's Creek Watershed Partners is a non-profit organization whose mission is to increase awareness and build support for the preservation and improvements of water quality, land use, and habitat value throughout the Tinker's Creek watershed.



The Ohio Stormwater Association is a group of public and private citizens dedicated to advancing the management of stormwater and related natural resources through education, leadership, watershed-based coordination, and technical assistance in Ohio. The Ohio Stormwater Association provides educational and networking opportunities for people focused on reducing the negative impacts of stormwater runoff.

Acknowledgement

A special thank you to all of those who helped plan this event. Thank you to the speakers who have taken their time to present.

We also want to recognize all of our Sponsors and Exhibitors; without their participation this conference would not be possible.

Get the 2024 Ohio Stormwater Conference App

Attendees with Apple iOS or Android devices are able to personalize their conference experience with our Annual Conference mobile app. Here are just some of the many features:

- Bookmark presentations and events in the conference agenda to create a personalized schedule.
- Preview schedule and speaker bios.
- Sponsor and exhibitor information
- Message other attendees directly, easily access individual message threads, and share contact information to stay connected after the conference.
- Participate in the App Photo Contest and be entered to win a prize!
- Description of all sessions and tracks.

GUIDEBOOK APP CODE



Photo Contest: Upload a photo to the app, label with your name and be entered to win a prize!! Photos should be of your “viewing” location for the conference.



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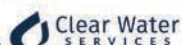


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Conference Schedule/CEU

Wednesday, May 8, 2024

8:00 a.m. - 12:00 p.m.	Birding Tour
9:00 a.m. - 11:00 a.m.	Kayak Tour
10:00 a.m. - 3:30 p.m.	MS4 Boot Camp
6:00 p.m. - 9:00 p.m.	Wine Dinner

Thursday, May 9, 2024

8:30 a.m. - 10:00 a.m.	Opening/Keynote
10:00 a.m. - 10:30 a.m.	Break - Exhibit Hall
10:30 a.m. - 12:00 p.m.	Concurrent Session
12:00 p.m. - 12:45 p.m.	Lunch
12:45 p.m. - 1:15 p.m.	Exhibit Hall
1:15 p.m. - 2:45 p.m.	Concurrent Session
2:45 p.m. - 3:15 p.m.	Break - Exhibit Hall
3:15 p.m. - 4:15 p.m.	Concurrent Session
4:30 p.m. - 5:30 p.m.	Concurrent Session
5:30 p.m. - 8:30 p.m.	Reception in Exhibit Hall

Friday, May 10, 2024

8:00 a.m. - 9:30 a.m.	Concurrent Sessions
9:30 a.m. - 10:00 a.m.	Break - Exhibit Hall
10:00 a.m. - 11:00 a.m.	Concurrent Sessions
11:10 a.m. - 12:10 p.m.	Concurrent Sessions

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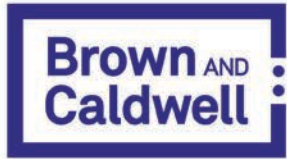
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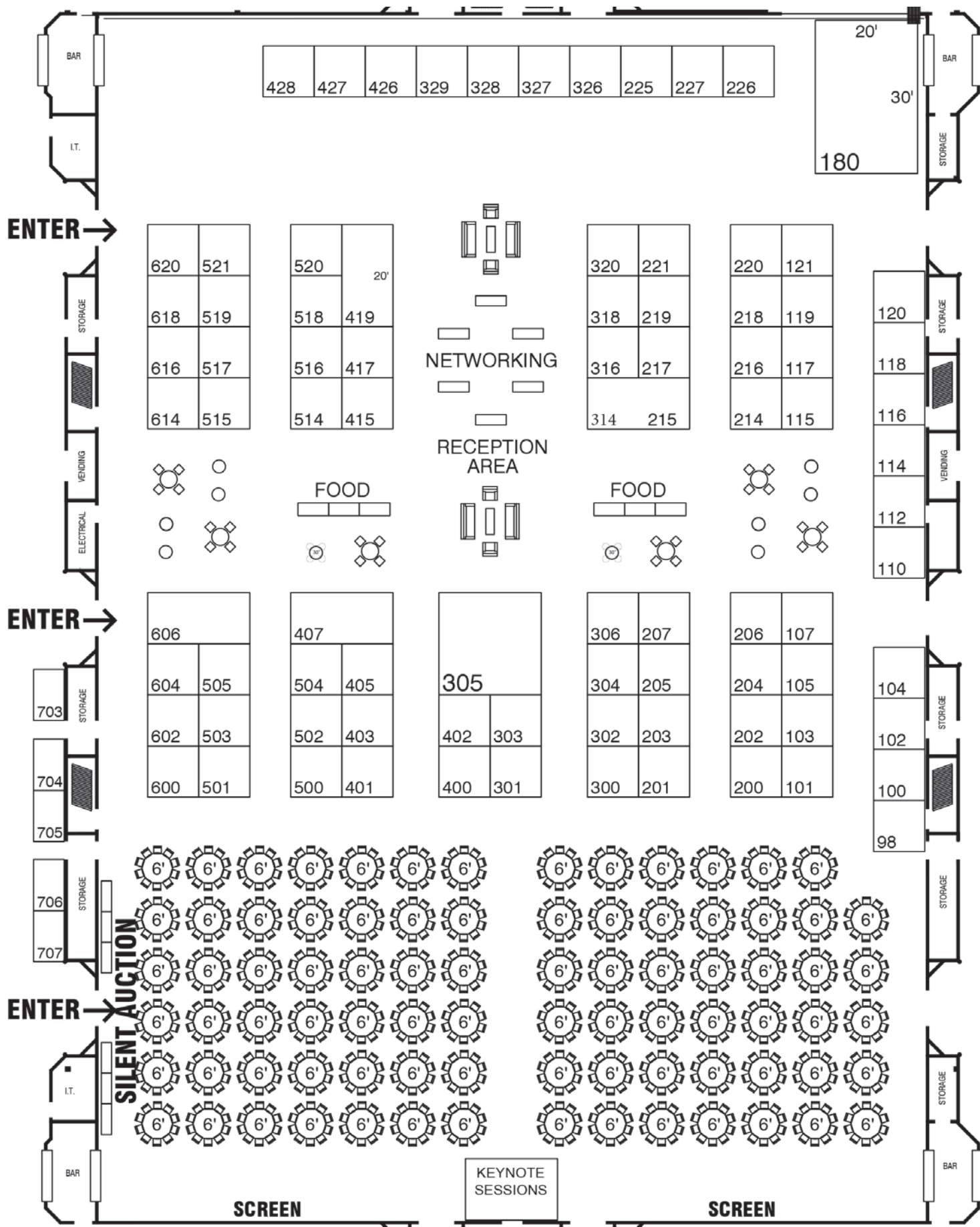




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BioMicrobics, Inc.	426	M Tech Company	180
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Contech Engineered Solutions	419	ODNR - Old Woman Creek Reserve	516
Coyle SWPPP Professionals	219	ODNR	518
CTL Engineering	502	OEPA	704
Davey Resource Group	318	OHM Advisors	515
EJ	500	OSWA	703
EJ Prescott	205	POWER Engineers	505
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Envirolok	114	Renewed Outdoors, LLC	301
Environmental Design Group	115	Roundstone Native Seed, LLC	201
Enviroscience	503	Rymar Waterworks Innovations	221
Ernst Conservation Seeds	329	Sauls Seismic	218
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Indiana Kentucky Ohio Concrete Pipe Assoc.	300	Wertz Geotechnical Engineering, Inc.	203
Infratech Solutions LLC	100	Western Green	119
		Williams Forestry & Associates	402
		Xerxes	614

NORTH PATHWAY



Layout of Convention Center



Orange Room: Watershed Planning and Restoration

Nile Room: Stormwater Practices, BMPs, Planning & Design

Zambezi Room: Legal & OEPA Roundtable; Transportation

Aloeswood Room: Climate Change, Resiliency and Sustainability; Industrial

Rosewood Room: Monitoring, Inspection, and Maintenance; Stormwater Retrofits

Zebrawood Room: Green Infrastructure

Sagewood Room: Modeling and Research; DEI

Conference Planning Committee

Conference Chair

Harry Stark, City of Aurora / Tinker's Creek Watershed Partners / Ohio Stormwater Association

Planning Committee

Ana Burns - Chair, Abstract and Agenda Committee
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Ohio Stormwater Association

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Emily Kuzmick
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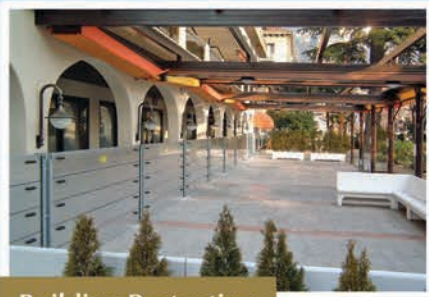


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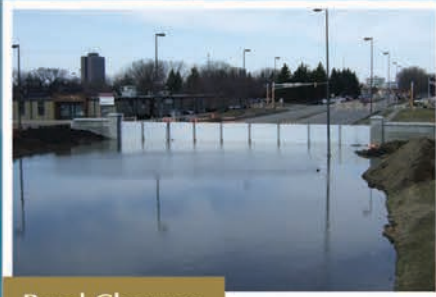
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- Water and Sediment Sampling and Testing
- Environmental Site Assessments

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This year, we have
several contests!

1

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Please follow the directions on your passport book (in packet), visit booths, and enter to win some cool prizes.

2

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Open the conference app, go to QR code game, and find QR codes in exhibit booths. Once you've collected them and see the phrase, bring completed form to registration to be entered into for some prizes.

3

GUIDEBOOK PHOTO CONTEST

The app has the ability to post photos, name the photo with your name and the best photo wins!! The photo can be anything conference related - find something unique.

GUIDEBOOK APP QR CODE



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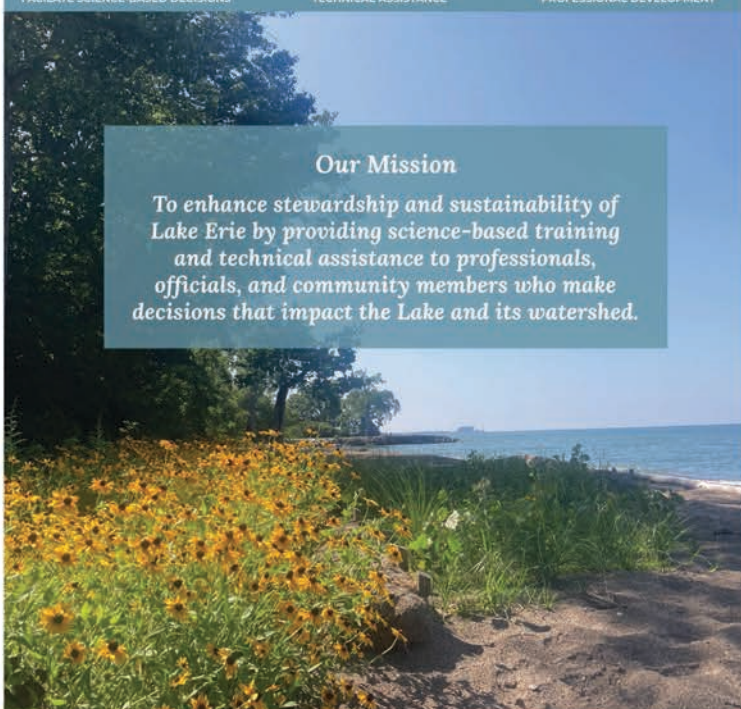
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Kayak Raffle

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- ~ Purchase a raffle ticket to win a kayak!!
- ~ Come to the Tinker's Creek Exhibitor Booth to purchase a ticket!



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Stone Environmental graciously donated the kayak that is being raffled as part of our fund raiser. We greatly appreciate this donation and Stone Environmental's continued support of the Tinker's Creek Watershed Partners.





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Keynote Presentation

Thursday May 9, 2024

Conference Welcome and Opening



Harry Stark
Executive Director

I've been honored to be the Executive Director of the Ohio Stormwater Conference since 2008. It has been a pleasure to meet and work with so many great people who are dedicated to protecting and improving Ohio's abundant natural water resources. The dedication of these individuals is an asset to Ohio.

I would like to thank the planning committee, the numerous sponsors, exhibitors, collaborating partners, and speakers who all have devoted countless hours and resources to make this conference a success. I encourage everyone to visit the sponsors and exhibitors either in-person or virtually over the two-day event for the knowledge, expertise, and products that they bring to share with all of us. Thank you to Ana Burns, Davey Resource Group, who led the development of another strong agenda.

It has been a wonderful experience working with all of the talented people who have volunteered their time in making our conferences a success. I look forward to the years to come to see how this event will continue to grow and expand and bring stormwater management issues to the forefront in Ohio. Thank you.

Conference Keynote Speaker



Chris Ronayne
Cuyahoga County Executive

For 16 years, Chris served as the President of University Circle Inc. (UCI), a non-profit community service corporation. Chris achieved measurable results, transforming Ohio's education, medical, and cultural district into a thriving complete community. He delivered more than 2,500 new and renovated neighborhood homes to the area, developed after-school and summer programs that engaged more than 10,000 students each year, helped bring a grocery store to a food desert and connected small businesses to Cleveland's arts, education and healthcare institutions. He stepped down from his role at UCI in 2021 to launch his campaign for County Executive.

Chris is past Chair of the Canalway Partners Board of Directors, and the Port of Cleveland Board of Directors. In these roles, Chris was a leader on innovative projects like the Cleveland-Europe Express container service and the newly completed Towpath Trail.



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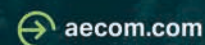
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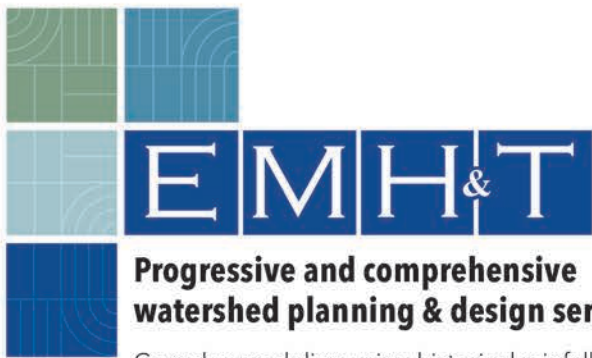
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 for the panel discussion on
Thinking Outside the Box:
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- Stormwater Support Services
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- Mitigation Banking
- Climate & Resiliency



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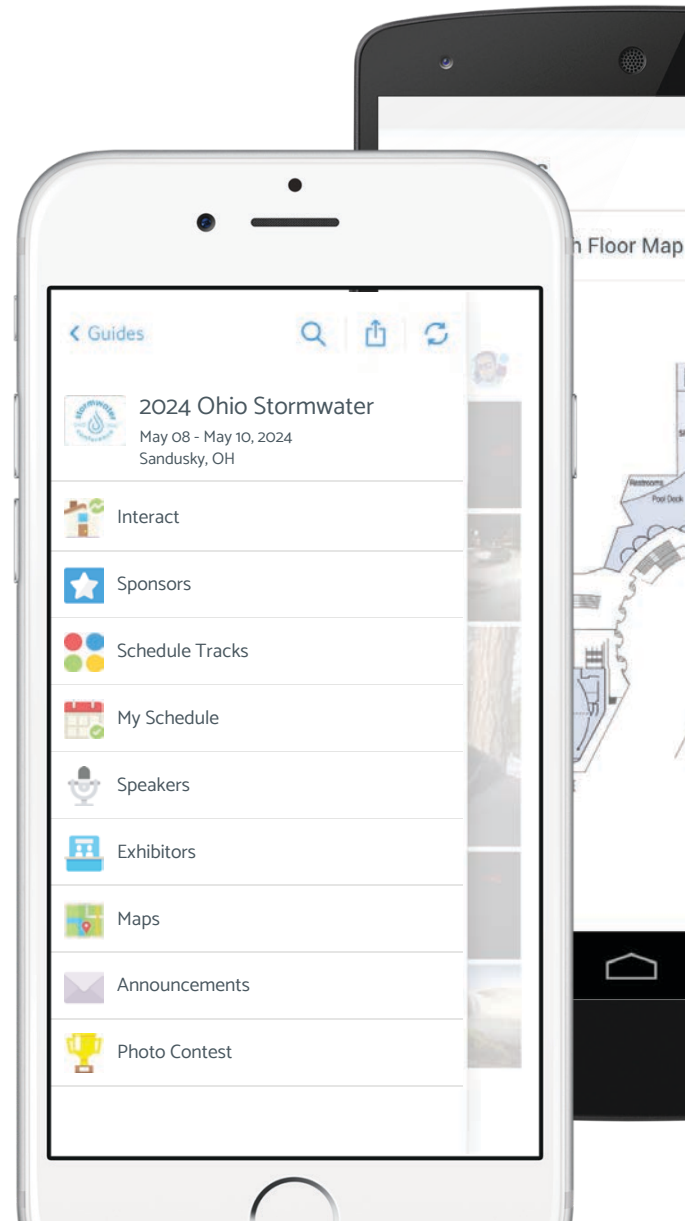
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<https://guidebook.com/g/ohstormwater2024/>

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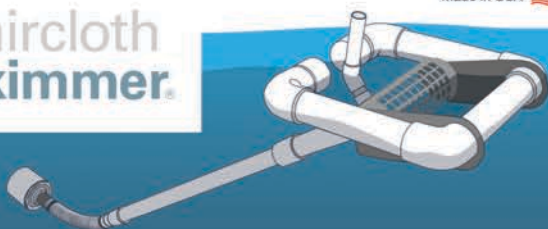


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Who We Are:

A group of public and private citizens dedicated to advancing the management of stormwater and related natural resources through education, leadership, watershed-based coordination and technical assistance in Ohio.



Our Mission:

To promote water quality and effective management of storm water by providing leadership, education, advocacy and technical assistance.

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Topgolf Statewide Networking Event

**Oct. 3, 2024
5:30pm - 8:30pm**

Join OSWA for golfing and networking fun! This state-wide event will occur at all 3 Ohio Topgolf locations (Cincinnati, Columbus, and Cleveland) at the same time, on one night! **Now accepting event sponsors!**

OSWA Event Calendar

Industrial Webinar:

July 17, 2024

Topgolf Statewide Networking Event:

Oct. 3, 2024

Regulatory Webinar:

Oct. 9, 2024

OWEA & OSWA Watershed Workshop

Columbus, OH
Oct. 18, 2024

Scan the QR code to visit our site, join a committee, find more information on our upcoming events/webinars, and Topgolf event sponsorship.





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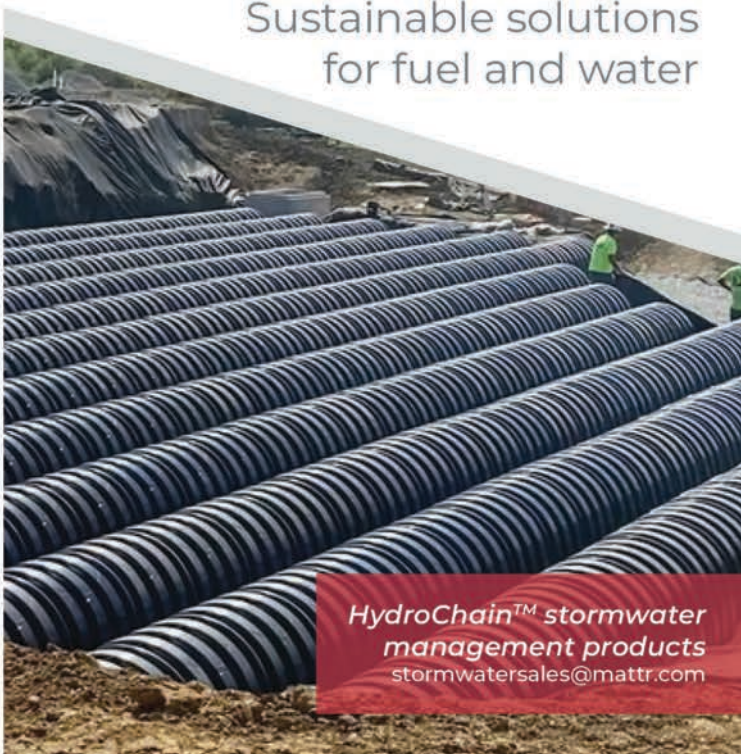
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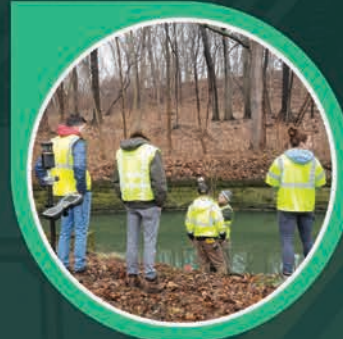


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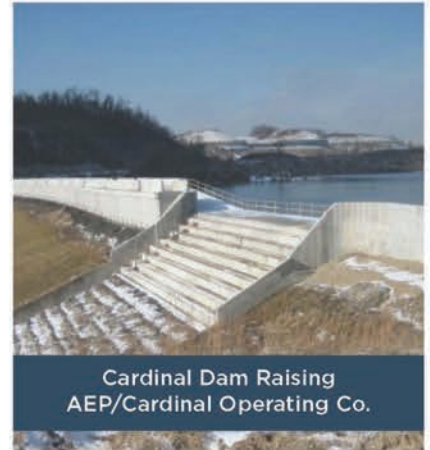



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More information can be found at: <https://ohstormwaterconference.com/ceu-info/>



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MEET OUR STORMWATER TEAM:

The City of Toledo, with a population of approx. 260,000 people and a Phase I NPDES Community, lies within two watersheds (Maumee and Ottawa Rivers) that drain to Lake Erie. Under the Department of Public Utilities, the Division of Environmental Services (TES) is one of six divisions that manages core services Toledoans rely on. At TES, we fight for a higher quality of life through balanced, responsible environmental protection, ensuring safe air and water for all citizens in the metropolitan area. Our Stormwater section manages all stormwater entering our MS4 system, to protect water resources and address water quality by reducing the quantity and improving the quality of stormwater runoff. We take pride in serving as an environmental leader and consultant for other local, state, and federal agencies.



TEAM MEMBERS:

Commissioner:
Abed A. Semaan

Chief:
Regina Collins

Stormwater Coordinator:
Edith Kippenhan

Senior Environmental Specialists:
Marilyn DuFour, LaShawna Weeks,
Todd Haggard

Environmental Specialists:
Angela Tucker, Nathanael Semaan,
Wei Zhang, Steven Wilkes

Environmental Technicians:
Tiffani Petry, Anthony Marino, Jennifer Bliss, Dean Bobzean, Brian Krasniewski

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Illicit Discharge Detection and Elimination (IDDE)—
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Construction Site Runoff Controls—
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Post-Construction Site Runoff Controls—
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Pollution Prevention and Good Housekeeping—
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Industrial/Commercial Facilities Program—
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Monitoring Requirements—3 river sites monitored



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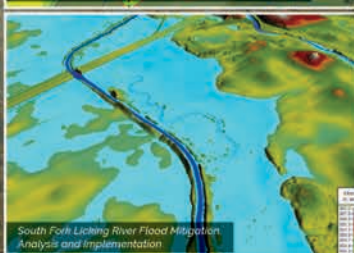
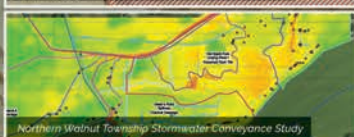
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Ohio Stormwater Conference Technical Agenda

8:30 - 8:45 am	Opening - Harry Stark
8:45 - 9:00 am	Awards Ceremony - Justin Czekaj
9:00 - 10:00 am	Keynote Presentation: Chris Ronayne, Cuyahoga County Executive

10:00 - 10:30 am Break
Visit Exhibit Hall and see all our Exhibitors!!

	Watershed Planning and Restoration Orange Room	Stormwater Practices, BMPs, Planning & Design Nile Room	Legal Zambezi Room
10:30 - 12:00 pm 1.5 CEU	<p>Thinking Outside the Box: Team Efforts to Fund Restoration Projects</p> <p>Regina Collins, City of Toledo, Environmental Services Deanna Bobak, Civil & Environmental Consultants, Inc. Sally Gladwell, Mannik & Smith Group, Inc. Jordan Rofkar, Verdantas</p> <hr/> <p>Williamsburg Off Channel Nutrient Removal Wetland</p> <p>John McManus, Clermont SWCD Laura Lair, Clermont Co Office of Environmental Quality</p>	<p>Case Study: Baldwin Creek Stabilization in North Royalton, Ohio</p> <p>Jaime Hain NEORS</p> <hr/> <p>Creative Water Quality Solutions: Floodplain Restoration Case Study at UTCAD</p> <p>Nathan Renaudin, RES Jessica Stratigakos, RES</p> <hr/> <p>Effectively Preparing for a Flood of Development in Clarksville, Indiana</p> <p>Chris Rust Strand Associates, Inc.</p>	<p>Ohio Water Law 101</p> <p>Louis L. McMahon McMahon DeGulis LLP</p> <hr/> <p>Water Law 102: Basic Legal Issues</p> <p>Louis L. McMahon McMahon DeGulis LLP</p> <hr/> <p>Legal Hot Topics and Headlines in Stormwater Management</p> <p>Megan E. Goedeker McMahon DeGulis LLP</p>

12:00 - 12:45 pm Lunch

12:45 - 1:15 pm Exhibit Hall

1:15 - 2:45 pm 1.5 CEU	<p>Balancing Restoration Success and Angler Expectations on the Chagrin River</p> <p>Kim Brewster Shefelton, Chagrin River Watershed Partners, Inc. Kevin Grieser and Brett Long, Biohabitats, Inc. Steve Fabian, Meadville Land Service, Inc.</p> <hr/> <p>Want to remove a dam...not so fast!</p> <p>Ivan Valentic, GPD Group Nick Agins, Lake County Stormwater Management Department</p>	<p>Larger Common Stormwater Plan - Small Sites, Big Disturbances</p> <p>Lauren Conard Cuyahoga SWCD</p> <hr/> <p>Exploring the Clean Water Act: Construction Site Design & Implementation</p> <p>Joe Moore Siltworm</p>	<p>Sources, Fate, and Transport of Nutrient Regulation</p> <p>Lee A. Slone McMahon DeGulis LLP</p> <hr/> <p>Flooding: Liability and Defenses</p> <p>Megan E. Goedeker McMahon DeGulis LLP</p> <hr/> <p>Post-Sackett Wetlands: The Regulated Perspective</p> <p>Lee A. Slone, McMahon DeGulis LLP Megan Goedeker, McMahon DeGulis LLP</p>
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Thursday May 9, 2024

Green Infrastructure Zebrawood

Green Infrastructure - Urban Forestry,
Thriving Trees in Urban Stormwater

Jason Bailey, PE
Ferguson Waterworks

Conceptualization, Collaboration,
Construction – The Volunteers Field
Green Infrastructure Project

Matthew Smith
JMT, Inc

Modeling and Research Sagewood

A Blueprint for Flood-Resiliency: Modern
Tools for Stormwater Master Planning

Dustin West
Hazen and Sawyer

Barrier Inlet Screens to Mitigate Debris in
ODOT Storm Sewers

Justin Kerns, ms consultants, inc.
Andrew Tirpak, Ohio State University

Computational Fluid Dynamics (CFD)
Analysis of Hydrodynamic Separator
(HDS) Performance

Greg Williams
StormTrap

Monitoring, Inspection, and Maintenance Rosewood

Wet Weather, Dry Weather, & Illicit
Discharges: Let's Discuss IDDE

Brad Flack, StormwaterONE

A Day in the Life of An Inspector

Brad Flack, StormwaterONE

Climate Change, Resiliency, and Sustainability Aloeswood

A Collective Impact-style Collaborative
to Propel Urban Canopy Policies in
Cuyahoga County

Robert F. Brand and John Mills
Cuyahoga
County Board of Health

Collaboration Is Key in a Rapid
Developing Watershed

Kristy Hawthorne, Licking SWCD
Kari Mackenbach, ms consultants inc.

River Trail School Agricultural
Program: Urban Forest & Stormwater
Management

Joanna Colletti
Graef-USA, Inc.

Geosynthetic Turf Reinforcement:
Mitigation of Channel Erosion from
Hydraulic Stresses

Andy Durham
Western Green

How 2D Modeling Can Help Identify/
Mitigate Neighborhood Flooding

Chad Boyer and Colin Bope
ms consultants

Watershed Surface and Channel Runoff
Coefficient Assessment with Unified
Runoff

Kenneth Kagy
Contract SME Stormwater Engineer

Effective Strategies for Long-term O&M
Plan Implementation

Jessica Doty, CDM Smith
Kate Moran, CDM Smith

Dry Weather Screening Success with a
Robust Infrastructure Map

Ryan Wuest and Ross Combs
Hamilton County Public Health

City of Toledo Open Channel
Maintenance Program

Deanna Bobak, Civil & Environmental
Consultants, Inc
Lorie Haslinger, City of Toledo

Defending the Battery –Design &
Reconstruction of Charleston's Historic
Seawall

Ryan Mattie
JMT

Tips to Successfully Applying for FEMA
Hazard Mitigation Assistance Grants

John Aldrich
CDM Smith

Ohio Stormwater Conference Technical Agenda

	Watershed Planning and Restoration Orange Room	Stormwater Practices, BMPs, Planning & Design Nile Room	Legal Zambezi Room
2:45 - 3:15 pm	Break Visit Exhibit Hall and see all our Exhibitors!!		
3:15 - 4:15 pm 1.0 CEU	<p>A Perspective from Above. A West Creek Case Study</p> <p>Shawn Robinson and Karrie Buxton NEORS</p> <hr/> <p>GIS-based Data Management for Regional Stormwater Nomination and Project Tracking</p> <p>Leila Jackson and Michael Blair NEORS</p>	<p>One MS4's Expectations for Post-construction Stormwater Compliance</p> <p>Jay Dorsey, OH2O, LLC</p>	<p>Equitable and Defensible Stormwater Program Fee Development</p> <p>Jeffrey Duke Raftelis</p>
4:15 - 4:30 pm	Break		
4:30 - 5:30 pm 1.0 CEU	<p>Legacy Issues, Legacy Solutions in the Sand Run Tributary</p> <p>Christina Znidarsic and Cole Rashilla Davey Resource Group</p>	<p>Stormwater to Groundwater: What's the Connection?</p> <p>Rachel Brown POWER Engineers, Inc.</p>	<p>Ethics from Aristotle to AI</p> <p>Tom Pannett Kegler Brown Hill + Ritter</p>
5:30 - 8:30 pm	WESTERN THEME RECEPTION - EXHIBIT HALL		

Thursday May 9, 2024

Green Infrastructure
Aloeswood

Modeling and Research
Sagewood

Monitoring, Inspection, and
Maintenance
Rosewood

Climate Change, Resiliency,
and Sustainability
Rosewood

Master planning for Harbor Multi-Use
and Water Quality Improvements

Jessica L. Miller, ECT
Dan King, ECT

Invigorate Gallery: Grassroots Green
Infrastructure for Revitalizing a Vacant
Lot

Alex Litofsky, OHM Advisors
Antunesia Harris, Rosa Consulting

Does it Age Like a Fine Wine?: Older
Bioretention Performance

Ryan Winston
Ohio State University

The Ohio Dam Safety Program Updates
and the HHPD Grant

Matthew Marquis, ODNR Division of Water
Adam Lanzillotta, ODNR

Circular Pipe Economy: A Recycled Pipe
Virtual Plant Tour!

Michael Cook and Clinton Hartle
Advanced Drainage Systems, Inc

A review of Microplastic Pollution and
its Impacts on Health

Ty Haugh and Joshua Durr
Cuyahoga County Board of Health

Small Project...but Unexpected Big
Challenges

Mike Flickinger, Jacobs
Randall Berkley, Jacobs

Putting Real-time E. coli Measurements
to the Test

Karlin Danielsen
OHM Advisors

Weather – its impacts on estuarine
restoration in the Great

Suzanne Hoehne
Biohabitats, Inc

Municipal Waterways Maintenance
Program Development and
Implementation

James Akins, EMH&T
Michael Hendershot PE, CSSBB, City
of Dublin

Authentic stakeholder engagement is
needed for climate resilience

Elizabeth Schuster,
Sustainable Economies Consulting

The Summer of 100-Year Rain Events
in Morgantown, West Virginia

Chris Rust
Strand Associates, Inc.

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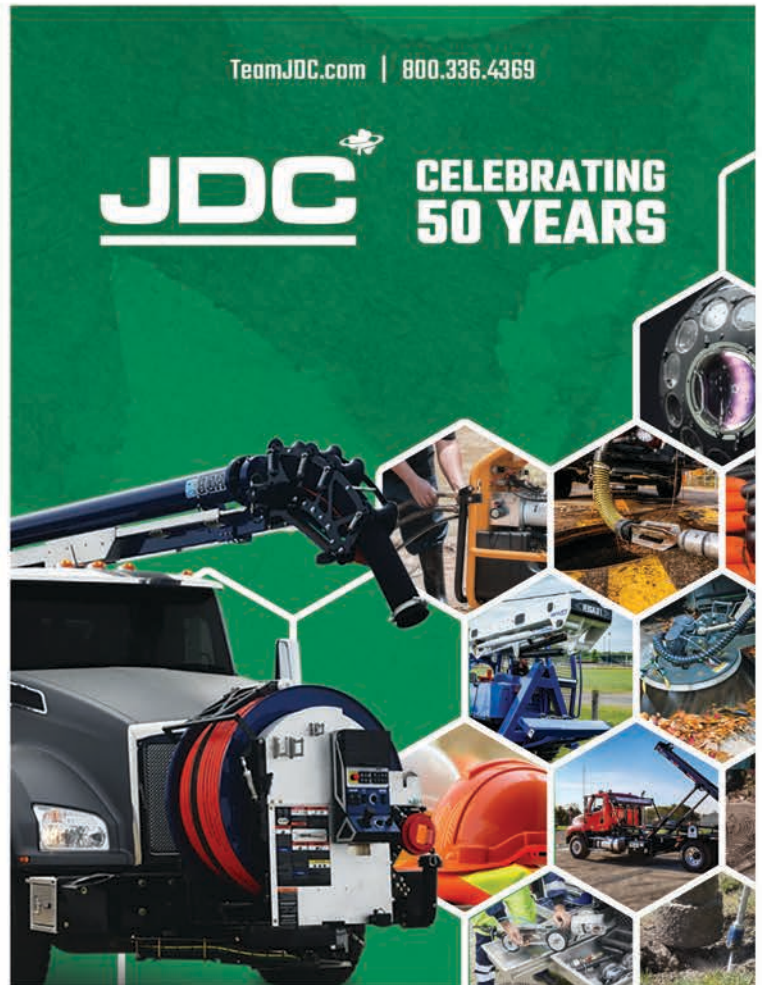


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Ohio Stormwater Conference Technical Agenda

	Watershed Planning and Restoration Orange Room	Stormwater Practices, BMPs, Planning & Design Nile Room	Transportation Zambezi Room
8:00 - 9:30 am 1.5 CEU	<p>NEORSD's Programmatic Purpose at Work along Pepper Luce Creek</p> <p>Dempsey Ballou, Jacobs Kristen Buccier, NEORSD</p> <hr/> <p>Design Techniques for West Creek, a NEORSD Urban Watershed Project</p> <p>Joseph Lanni GPD Group</p>	<p>Education For Everyone Forever: When projects need extra help</p> <p>Kelly Parker, Cuyahoga SWCD</p> <hr/> <p>The ABC's of Post-Construction Stormwater Quality Control Measures</p> <p>Brad Flack, StormwaterONE</p> <hr/> <p>Optimized Detention using Vortex Flow Controls - Case Studies</p> <p>Phillip Taylor, Hydro International</p>	<p>Incorporating Green Infrastructure for Traffic Calming</p> <p>Ivan Valentic, GPD Group</p> <hr/> <p>Transportation Roundtable</p> <p>Jon Prier, ODOT Mark McCabe, JEO CONSULTING GROUP INC</p>
9:30 am - 10:00 am	Break - Visit Exhibitors/Sponsors		
	Watershed Planning and Restoration Orange Room	Stormwater Practices, BMPs, Planning & Design Nile Room	Transportation Zambezi Room
10:00 - 11:00 am 1.0 CEU	<p>Ohio Department of Agriculture's Regional Watershed Program</p> <p>John Timmons Ohio Department of Agriculture</p> <hr/> <p>The Role of Human and Beaver Communities in Restoration</p> <p>Erin Mundorf Biohabitats</p>	<p>Loading Rate Wars: Avoiding the pitfalls of perpetually chasing cheaper/smaller.</p> <p>Derek Berg, Contech Engineered Solutions LLC</p> <hr/> <p>Ohio EPA Technical Updates</p> <p>Justin Reinhart, Ohio EPA Emily Coffin, Ohio EPA</p>	<p>A Regional Resiliency Framework for Stormwater and Transportation Planning</p> <p>Rachael Barlock, Southeast Michigan Council of Governments</p> <hr/> <p>Outfalls That Aren't Outlaws – Two Project Success Stories, More</p> <p>Kevin Hutchens, Burgess & Niple, Inc.</p>
11:10 - 12:10 pm 1.0 CEU	<p>The Use of Native Plants for Meadow and Prairie Restoration</p> <p>Jim Kooser Atlas Technical Consultants</p>	<p>Ohio EPA Updates and Roundtable</p> <p>Jason Fyfe, Ohio EPA</p>	<p>Pump It Up- Designing SEPTA's resilient transit infrastructure.</p> <p>Shiny Mathew, JMT</p>

DEI Sagewood Room	Climate Change, Resiliency, and Sustainability Aloeswood Room	Stormwater Retrofits Rosewood Room
<p>Defining Green Infrastructure Implementation Strategies Using Life-Cycle Costs</p> <p>Nicholas Watkins and Michael Dodson, CDM Smith</p> <hr/> <p>Integrating Equity and Environmental Justice in Stormwater Comprehensive Planning</p> <p>Jenna Johnston, ECO</p> <hr/> <p>Green, Clean & Seen: Maintaining GI Sites in Highly Urbanized</p> <p>Paul Kovalcik, NEORS</p>	<p>Hanalei Riverbank Restoration. High Tides, Hau Bush and Habitat</p> <p>Eric Seidl Envirolok</p> <hr/> <p>Multifunctional riparian forest buffers</p> <p>Rosana Villafan Holden Forests & Gardens</p>	<p>Stormwater Basin Retrofits as Potential Watershed Restoration Tools</p> <p>Keely Davidson-Bennett Chagrin River Watershed Partners, Inc.</p> <hr/> <p>Leveraging 2D Modeling in a Stormwater Retrofit – Part II</p> <p>Alex Vieira, Hazen and Sawyer Eric Onderak, Coldwater Consulting</p> <hr/> <p>Don't let your Trash make a Splash!</p> <p>TJ Mullen, Best Management Products, Inc.</p>
DEI Sagewood Room	Industrial Aloeswood Room	Stormwater Retrofits Rosewood Room
<p>Crime Prevention Design for Green Infrastructure</p> <p>Katherine Holmok, PLA Kimley-Horn</p>	<p>Introduction to Industrial Stormwater Inspections for Construction Stormwater Professionals</p> <p>Nathan T Collier POWER Engineers, Inc.</p>	<p>Parma-nent Stormwater Basin Improvements Case Study</p> <p>Derek Vogel NEORS</p>
<p>Community Backyards: Providing Educational Incentives for Stormwater, Sustainability, and Equity</p> <p>Mikaela Mohr, Franklin SWCD Kori Sedmak, Franklin SWCD Community Backyards is a stormwater</p> <hr/> <p>Quantifying the Economic and Social Benefits of Floodplain Restoration Projects</p> <p>Tom Batrone, HDR Lisa Brown, Watersheds of South Pittsburgh</p>	<p>PFAS in Stormwater</p> <p>Brian Yates, Burgess & Niple Brian Ternes, Burgess & Niple</p>	<p>Honolulu Stormwater BMPs Case Studies</p> <p>Jay Stone Bowers + Kubota Consulting, Inc.</p>

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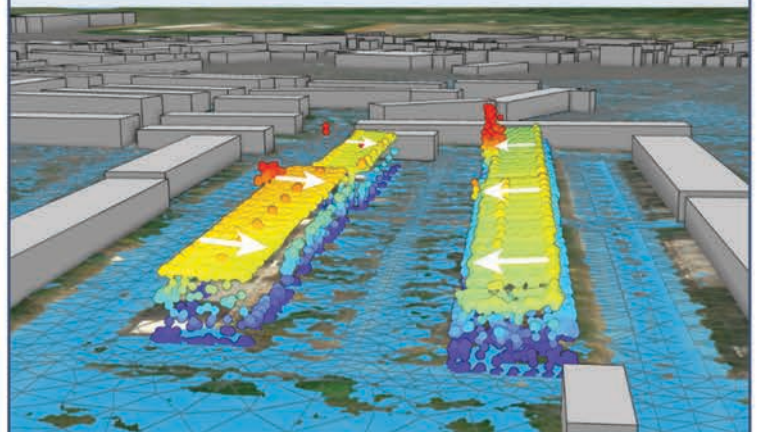
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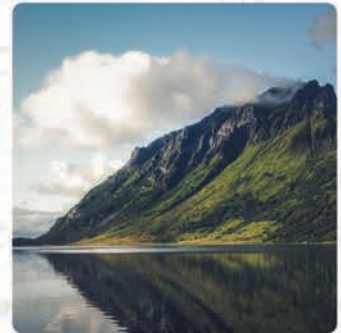


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