

RIVERBANK WATER SUPPLY SYSTEMS MAXIMIZING ALLUVIAL AQUIFERS

Design, Construction, Operation, Maintenance and Treatment of Riverbank Filtration Water Supplies – Finding the Right Fit **AN IN-PERSON INFORMATION EXCHANGE CONFERENCE**



April 2022 – 8:15am – 4:30pm
Robert J Mohart Center, 3200 Wayne Avenue, Kansas City, MO

Convened by: American Ground Water Trust
[A (501)(c)(3) education non-profit organization] www.agwt.org



In cooperation with Kansas City Water

~ Tour WaterOne Riverbank Supply System ~



FREE pre-conference tour of the WaterOne Riverbank Supply System (new date and time coming soon).
Tour limited to 20 people and is only available for conference attendees. [Register at www.agwt.org/events](http://www.agwt.org/events).



Continuing Education



Approved for **MO Drinking Water Treatment and Distribution Operators** – Course #2201037, 6.5 Training Hours
Approved for **KS Water Treatment Operators** – 5 CEHs
Approved by Kansas Ground Water Association for **KS Water Well Contractors** – 6.5 Hours
The AGWT will issue Certificates of Attendance for engineers and other professions



“With changing climate likely to affect groundwater recharge, a riverbank location for dependable water supply seems like the best bet”

DESCRIPTION:

An intense one-day information-exchange program about science, engineering and economic issues related to extracting groundwater from unconsolidated alluvial aquifers. The program will showcase case studies from experts in design, construction and operation of vertical wells, slant wells, collector wells and galleries. Discussion will include:

- Characteristics of alluvial aquifer hydrogeology that influence design options
- How site conditions influence construction and installation costs of collector wells
- Treatment and system maintenance operation costs compared with direct surface water supply
- Regulatory issues for groundwater under the direct influence of surface water (GWI)
- Track record of operation and maintenance of riverbank water supply installations

BACKGROUND

Unconsolidated sand and gravel aquifers are typically developed utilizing vertical water wells. But what if the aquifer is relatively thin or large quantities of water are required and available space for a wellfield is limited? Many engineers and planners have turned to large diameter wells to develop water supply. This one-day program focuses on water supply strategies and engineering solutions that are designed to tap alluvial aquifers. This program is for water supply operators, groundwater consultants, engineers and designers, infrastructure planners, high-yield water users, government officials and decision makers involved in all aspects of water supply.



**AGWT Corporate supporters
and event sponsors.
Additional sponsors and
exhibitors welcome.**

7:30am – 8:15am REGISTRATION (coffee & pastries)

8:15 – 8:30

GLOBAL & HISTORICAL PERSPECTIVE ON RIVERBANK FILTRATION FOR WATER SUPPLY

Andrew Stone, American Ground Water Trust, Concord, NH

8:30 – 9:05

EVALUATING CAPACITY AND YIELD OF ALLUVIAL WATER SUPPLY SYSTEMS

D. Douglas Haney, PE, PG, Consulting Hydrogeologist, Olathe, KS

9:05 – 9:40

MIDWEST UTILITIES CHOOSE HORIZONTAL COLLECTOR WELLS TO SOLVE MANY CHALLENGES

Jeff Henson, PE, Associate Vice President and Director of Water Resources, Black & Veatch, Kansas City, MO

9:40 – 10:15

WATER QUALITY FOCUS ON RIVERBANK FILTRATION PROJECTS

Henry C Hunt, PG, Regional Director, Roscoe Moss Company, Charleston, SC

10:15 – 10:35 BREAK

10:35 – 11:10

USING MODELING TO ESTIMATE ALLUVIAL WELLFIELD YIELDS

Luca DeAngelis, PE, PG, Senior Hydrogeologist, Ranney Collector Wells/Layne, Olathe, KS

11:10 – 11:45

OWNERS PERSPECTIVE ON RIVERBANK FILTRATION - ST. JOSEPH AND INDEPENDENCE, MO

Mark Griffin, PE, Senior Engineering Project Manager, McClure Engineering Company, Kansas City, MO

11:45 – 12:20

COMPARISON: TREATING SURFACE WATER VS RIVERBANK FILTRATION WELL WATER

Sarah Tuite, PE, Process Engineering Manager, WaterOne, Kansas City, MO

12:20 – 1:20 LUNCH - Sponsored by Reynolds Construction

1:20 – 1:55

ADVANCES IN INSPECTION, MAINTENANCE, AND OPERATION OF RBF COLLECTOR WELLS

Matthew Reed, Project Manager & Hydrogeologist, Ranney Collector Wells/Layne, Yellow Springs, OH

1:55 – 2:30

DESIGN AND CONSTRUCTION OF REGIONAL (MULTI-STATE) RBF WELL SUPPLY

Jim Auen, Operations Manager, Lewis & Clark Rural Water, Tea, SD

2:30 – 2:45 BREAK

2:45 – 3:20

FACTORS INFLUENCING CONSTRUCTABILITY AND COST OF HORIZONTAL COLLECTOR WELL SYSTEMS

Greg Slone, Vice President, Collector Well Group, Reynolds Construction, LLC, Orleans, IN

3:20 – 3:55

INCREASING RAW WATER SUPPLY THROUGH REDEVELOPMENT OF A 50-YEAR-OLD WELLFIELD

Lorrie Hill, Water Production Operations Manager, City of Olathe, KS

3:55 – 4:30

ENSURING SUSTAINABLE DEVELOPMENT OF ALLUVIAL WATER SUPPLIES THROUGH BALANCED WATER POLICY

Daniel Clement, PG, Senior Hydrogeologist, Burns & McDonnell, Wichita, KS

4:30 WRAP-UP and ADJOURN

Registration, Exhibit and Sponsorship Form Riverbank Filtration Systems Conference – April 2022

[Register online at agwt.org/events](http://www.agwt.org/events)

General Registration	\$265
Employees of AGWT Corp Member	\$230
Local, state, or federal government	\$230
Full-Time Student (ID required at Registration)	\$ 50
PDF of Presentations (Post Conference) – Attendee Pricing	\$ 30
Exhibit Table (Personal Registration also Required)	\$250
WaterOne tour limited to 20 people (first come-first served basis). Tour details will be emailed to registered attendees.	\$ 0

HOW TO REGISTER

➔ **Mail:** American Ground Water Trust,
50 Pleasant St, Ste 2, Concord, NH 03301

➔ **Fax:** (603) 228-6557

➔ **Register on line:**
<http://www.agwt.org/events> or
[click here \(if using online\)](#)

Questions: Call (800) 423-7748
(9am-4pm eastern standard time)

Cancellation policy – see website

SPONSOR LEVELS: \$ 2,000 \$ 1,000 \$500

\$1,000 and above sponsors have the option of a complimentary registration or exhibit table.

Complimentary registration? YES NO Do you plan to exhibit? YES NO

Check box for WaterOne tour registration

Total \$

PAYMENT: CHECK [payable to: American Ground Water Trust] CREDIT CARD PO

Credit Card or PO No. _____ Expiration _____

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REGISTRANT INFORMATION:

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Title/Position _____

Company/ Organization _____

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Phone _____

E-Mail _____

AMERICAN GROUND WATER TRUST

Independent authority on groundwater

(Non-profit, 501 (c)(3) education organization)

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..... *This is what we do*

- ~ Promote efficient and effective ground water management
- ~ Communicate the environmental and economic value of ground water
- ~ Showcase ground water science and technology solutions
- ~ Increase citizen, community, and decision-maker awareness
- ~ Facilitate stakeholder participation in water resource decisions

