Join us on Tuesday for an Industry Sector Table Topics Luncheon which will allow attendees the opportunity to network while discussing relevant topics of interest. Tables will be hosted by topic experts to help guide the discussions. Attendees will have the chance to rotate and visit two tables during the luncheon. Spots at each table will be on a first-come/first-served basis. Make your mark on water reuse by discussing relevant topics with your peers and providing valuable input.

Closing Plenary Panel Discussion
What Government Can do to Accelerate Industrial Reuse

The technology exists to treat most types of industrial wastewater so that it can be reused for productive purposes, but all too often economic and regulatory hurdles prevent the technology from being deployed. This session will explore current and potential future ways that government can support greater industrial reuse, including regulatory frameworks, financial incentives, and sources of funding. Senior leaders from the federal government and the financial services community will share their insights on how industry can capitalize on current regulatory and funding opportunities, as well as make its voice heard in support of additional incentives.

Moderator:
Jon Freedman, Water & Process Technologies

Panelists:
Raffael Stein, U.S. Environmental Protection Agency
Tom Iseman, U.S. Department of the Interior
Shivaji Deshmukh, West Basin Municipal Water District
Water is everything

From beginning to end, water is essential to your operation. Solutions from GE help optimize water usage, while helping to increase productivity, reduce costs and meet the environmental regulations of your industry.

Chemical treatment, equipment and monitoring solutions for your water and process operations.

Learn more at www.gewater.com.
## Sunday, February 1, 2015

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
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</thead>
<tbody>
<tr>
<td>4:30 p.m. – 6:00 p.m.</td>
<td>Registration - Salon G Foyer (6th Floor)</td>
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<tr>
<td>5:30 p.m. – 7:00 p.m.</td>
<td>Welcome Reception - Salon G Foyer (6th Floor)</td>
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## Monday, February 2, 2015

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
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<tbody>
<tr>
<td>7:30 a.m. – 3:30 p.m.</td>
<td>Registration - Salon G Foyer (6th Floor)</td>
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<tr>
<td>7:30 a.m. – 3:30 p.m.</td>
<td>Exhibits Open - Salon G Foyer (6th Floor)</td>
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</tr>
<tr>
<td>7:30 a.m. – 8:30 a.m.</td>
<td>Continental Breakfast - Salon G Foyer (6th Floor)</td>
<td></td>
</tr>
<tr>
<td>8:30 a.m. – 10:00 a.m.</td>
<td>Opening Plenary Session - AccelerateH2O: Advancing World-Class Technologies, Expertise, and Networks - Salon G (6th Floor)</td>
<td></td>
</tr>
<tr>
<td>10:00 a.m. – 10:30 a.m.</td>
<td>Networking Break - Salon G Foyer (6th Floor)</td>
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### A1: Food and Beverage
- **Room:** Salon F (6th Floor)
- **Moderator:** Gary Engstrom, U.S. Water

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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>10:30 a.m. – 11:00 a.m.</td>
<td>A Case Study: Pushing the Limits of Water Recovery at a Food Processing Plant</td>
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<td></td>
<td>Ed Greenwood, AMEC Environment and Infrastructure</td>
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### B1: Oil and Gas
- **Room:** 602 (6th Floor)
- **Moderator:** Bob Holt, GE Water & Process Technologies

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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>10:30 a.m. – 11:00 a.m.</td>
<td>Advanced Aeration in Hydraulic Fractures Flowback Impoundments</td>
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<td></td>
<td>Tom Daugherty, Arcadian Technologies, LLC</td>
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### C1: Power and Energy Generation
- **Room:** 616 (6th Floor)
- **Moderator:** Eric Rosenblum, Envirospectives

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<tr>
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<tbody>
<tr>
<td>10:30 a.m. – 11:00 a.m.</td>
<td>Design and Commissioning of a Full-scale Municipal Wastewater Reuse Treatment System for the Lodi Energy Center Power Plant Expansion Project</td>
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<tr>
<td></td>
<td>Antonio Lau, Infilco Degremont, Inc.</td>
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</table>

### A2: Power and Water Management and Reuse Considerations for Hydraulic Fracturing
- **Event:** Austin Haynes, CDM Smith

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<td>Water Management and Reuse Considerations for Hydraulic Fracturing</td>
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### B2: Water Management and Reuse Considerations for Hydraulic Fracturing
- **Event:** Antonio Lau, Infilco Degremont, Inc.

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<tbody>
<tr>
<td>11:30 a.m. – 12:00 p.m.</td>
<td>Innovative Treatment of Shale Fracturing Water for Discharge</td>
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<td></td>
<td>Xiaofei Cui, Southern Research Institute</td>
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### C2: Water Management and Reuse Considerations for Hydraulic Fracturing
- **Event:** Don Vandertulip, ARCADIS

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<td>11:30 a.m. – 12:00 p.m.</td>
<td>Reclaimed Water Use in the Electric Power Industry-An Integrated Water Management Tool</td>
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<td></td>
<td>Don Vandertulip, ARCADIS</td>
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### A3: Wastewater Irrigation Performance Auditing
- **Event:** William “Gus” Simmons, Cavanaugh & Associates

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<tr>
<td>12:00 p.m. – 1:30 p.m.</td>
<td>Wastewater Irrigation Performance Auditing</td>
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### B3: Wastewater Irrigation Performance Auditing
- **Event:** Xiaofei Cui, Southern Research Institute

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- **Event:** Don Vandertulip, ARCADIS

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</tbody>
</table>

### Lunch Break
- **Time:** 12:00 p.m. – 1:30 p.m.
- **Event:** Luncheon Plenary Session - Representative Todd Hunter, Texas House of Representatives, District 32 - Salon G (6th Floor)
### A2: Food and Beverage

**Room:** Salon F (6th Floor)  
**Moderator:** Phil Rolchigo, Pentair

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker(s)</th>
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</table>
| 1:30 p.m. – 2:00 p.m. | Hogs Don’t Have to ’Hog’ the Water!  
J. Victor Van Slyke,  
ATD Waste Systems Inc. |  
| 2:00 p.m. – 2:30 p.m. | Facts to Consider for Process Water Reuse in Food Plants  
Al Goodman,  
CDM Smith |  
| 2:30 p.m. – 3:00 p.m. | Staged Implementation of Water Reuse at a Milk Powder Factory  
Bhupendra Poudel,  
Grundfos BioBooster A/S |  

### B2: Oil and Gas

**Room:** 602 (6th Floor)  
**Moderator:** Erin Bonney Casey, Bluefield Research

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<thead>
<tr>
<th>Time</th>
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</table>
| 2:00 p.m. – 2:30 p.m. | Characterization and Removal of Dissolved Organic Matter from Boiler Blowdown Water in Thermally Enhanced Oil Recovery Operation  
Anna Jawor,  
Water Planet Engineering |  
| 3:00 p.m. – 3:30 p.m. | Networking Break - Salon G Foyer (6th Floor) |  
| 3:30 p.m. – 4:00 p.m. | Water Reuse for Mining: Drivers, Demand, and Competitive Landscape  
Erin Bonney Casey,  
Bluefield Research |  
| 4:00 p.m. – 4:30 p.m. | Water & Wastewater Optimization for Industrial Systems  
Joe Guida,  
Flour |  
| 4:30 p.m. – 5:00 p.m. | Constructed Wetlands – A Natural, Sustainable, Energy Friendly and Cost Efficient Alternative for Industrial/ Commercial Water Treatment and Reuse  
Tom Kasun,  
Alcoa  
Yatin Thaker,  
Bauer Resources |  

### C2: Power and Energy Generation

**Room:** 616 (6th Floor)  
**Moderator:** Antonio Lau, Infilco Degremont, Inc.

<table>
<thead>
<tr>
<th>Time</th>
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</thead>
</table>
| 3:00 p.m. – 3:30 p.m. | Reclaimed Water Supply Agreements Provide a Win/Win Opportunity for Tampa Electric Company’s Polk Power Station and Local Municipality  
Catherine Magliocco and David Lukcic,  
Tampa Electric Company |  
| 4:30 p.m. – 5:00 p.m. | Optimizing Water Reuse using an Advanced Decision Support Modeling Tool  
Charlie He,  
Carollo Engineers |  
| 5:30 p.m. – 7:30 p.m. | Networking Dinner at Stubb’s Bar-B-Q |  

### A3: Panel Discussion: Business Case for Water Reuse and Mining and Obstacles

**Room:** Salon F (6th Floor)  
**Moderator:** Abigail Antolovich, UOP - A Honeywell Company

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker(s)</th>
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</thead>
</table>
| 3:30 p.m. – 4:00 p.m. | Tekla Taylor,  
Golder Associates  
Tom Steinwinder,  
Brown & Caldwell |  
| 4:00 p.m. – 4:30 p.m. | Bill Woyschner,  
Shaw Diversified Services  
Alan Prouty,  
J.R. Simplot |  
| 4:30 p.m. – 5:00 p.m. | Tamim Popalzai,  
WorleyParsons  
Jonathan Radtke,  
Coca Cola |  

### B3: Manufacturing and Mining

**Room:** 602 (6th Floor)  
**Moderator:** Paul Pigeon, Golder Associates

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker(s)</th>
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</thead>
</table>
| 3:30 p.m. – 4:00 p.m. | Intel Chandler Substrate Packaging Technology Development Water Conservation  
Thomas Abia,  
Intel |  
| 4:00 p.m. – 4:30 p.m. | Optimizing Water Reuse using an Advanced Decision Support Modeling Tool  
Charlie He,  
Carollo Engineers |  
| 4:30 p.m. – 5:00 p.m. | Commercial Water Reuse Strategies to Meet the Rapidly Growing Urbanization in our Cities  
JF Finn,  
Gensler and  
John Hanula,  
MWH |  

### C3: Drivers, Opportunities and Obstacles

**Room:** 616 (6th Floor)  
**Moderator:** Andy Shea, HDR

<table>
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<th>Time</th>
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| 3:30 p.m. – 4:00 p.m. | Commercial Water Reuse Strategies to Meet the Rapidly Growing Urbanization in our Cities  
JF Finn,  
Gensler and  
John Hanula,  
MWH |  
| 4:00 p.m. – 4:30 p.m. | Optimizing Water Reuse using an Advanced Decision Support Modeling Tool  
Charlie He,  
Carollo Engineers |  
| 4:30 p.m. – 5:00 p.m. | Constructed Wetlands – A Natural, Sustainable, Energy Friendly and Cost Efficient Alternative for Industrial/ Commercial Water Treatment and Reuse  
Tom Kasun,  
Alcoa  
Yatin Thaker,  
Bauer Resources |  

### Networking Dinner at Stubb’s Bar-B-Q

**Room:** Salon F (6th Floor)  
**Moderator:** Erin Bonney Casey,  
Bluefield Research  
**Room:** 616 (6th Floor)  
**Moderator:** Antonio Lau,  
Infilco Degremont, Inc.
Our talents bring the resources of a global company to local water, wastewater, energy, natural resources and industrial projects. When MWH experts share knowledge, skills, experiences and innovations, our clients save time and money.
### Tuesday, February 3, 2015

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>7:30 a.m. –</td>
<td>Registration - Salon G Foyer (6th Floor)</td>
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<tr>
<td>7:30 a.m. –</td>
<td>3:00 p.m. Exhibits Open - Salon G Foyer (6th Floor)</td>
</tr>
<tr>
<td>7:30 a.m. –</td>
<td>8:00 a.m. Continental Breakfast - Salon G Foyer (6th Floor)</td>
</tr>
<tr>
<td>8:00 a.m. –</td>
<td>9:30 a.m. <strong>Plenary Session</strong> - <em>Realities of Water Reuse from the Boardroom, Boiler Room and Business</em> - Salon G (6th Floor)</td>
</tr>
<tr>
<td>9:30 a.m. –</td>
<td>10:00 a.m. Networking Break - Salon G Foyer (6th Floor)</td>
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</table>

#### A4: Chemical & Pharmaceutical
- **Room:** Salon F (6th Floor)
- **Moderator:** Gary Engstrom, U.S. Water

<table>
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<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>10:00 a.m. –</td>
<td>Treating Industrial Wastewater with MBR Technology for Reuse for Cooling Tower Make-up—Lake Charles Chemical Plant Tamim Popalzai, WorleyParsons</td>
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</tbody>
</table>

#### B4: Innovative Technology
- **Room:** 602 (6th Floor)
- **Moderator:** Keel Robinson, Xylem

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<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>10:30 a.m. –</td>
<td>Emerging Technologies Role in Enabling More Cost Effective Treatment Solutions for Reuse Fatemeh Shirazi, Microvi</td>
</tr>
</tbody>
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#### C4: Planning and Policy
- **Room:** 616 (6th Floor)
- **Moderator:** Elise Goldman, West Basin Municipal Water District

<table>
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<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>11:00 a.m. –</td>
<td>Federal and State Funding Opportunities for Water Reuse Justin Mattingly, WaterReuse Research Foundation</td>
</tr>
</tbody>
</table>

#### Industry Sector Table Topics Luncheon - Salon G (6th Floor)
- **Room:** 602 (6th Floor)
- **Moderator:** Gary Engstrom, U.S. Water
- **Room:** 616 (6th Floor)
- **Moderator:** Elise Goldman, West Basin Municipal Water District
- **Room:** 602 (6th Floor)
- **Moderator:** Keel Robinson, Xylem

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<tbody>
<tr>
<td>11:00 a.m. –</td>
<td>Water Recycle/Reuse in Chemical Manufacturing - Examples and Challenges Glenn Lord, Dow Chemical</td>
</tr>
<tr>
<td>11:30 a.m. –</td>
<td>Regeneration and Reuse of Industrial Wastewater by Double Membrane Method Xintao Li, Beijing Origin Water Technology Co., Ltd</td>
</tr>
<tr>
<td>11:30 a.m. –</td>
<td>Onsite Industrial Water Reuse: A Path Forward for Collaboration and Growth Joan Oppenheimer, MWH</td>
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### 11:30 a.m. – 1:00 p.m. Industry Sector Table Topics Luncheon - Salon G (6th Floor)
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Room</th>
<th>Moderator</th>
<th>Presenter</th>
</tr>
</thead>
</table>
| 1:00 p.m. – 1:30 p.m. | **A5: Manufacturing & Refining**  
Industrial Wastewater Reclamation System - A Breakthrough Initiative to Improve Intel Vietnam Factory’s Water Footprint | Salon F (6th Floor) | Bill Woyshner, Shaw Diversified Services | Linh Huynh, Intel |
| 1:30 p.m. – 2:00 p.m. | **B5: Commercial and Institutional Applications**  
What is the Volumetric Potential for On-Site Reuse in the Industrial, Commercial and Institutional Sectors (ICI) in Texas | 602 (6th Floor) | Guy Carpenter, Carollo Engineers | Bill Hoffman, H. W. Hoffman & Associates, LLC |
| 2:00 p.m. – 2:30 p.m. | **C5: Innovative Technology**  
A Study of the Effects of Antiscalant Chemistry on Organic and Biological Fouling RO and NF Membrane Systems | 616 (6th Floor) | Don Vandertulip, ARCADIS | Vana Abbas, American Water Chemicals Inc. |
| 2:30 p.m. – 3:00 p.m. | **Networking Break** | Salon G (6th Floor) |                      |                                  |
| 3:00 p.m. – 4:30 p.m. | **Closing Plenary Panel Discussion**  
Treating Complex Oily Wastewater for Reuse with a Unique Two-Stage Process—Metal Working | Salon G (6th Floor) | Steve Gluck, Dow Chemical |                                    |
| 4:30 p.m. – 4:45 p.m. | **Executive Director's Closing Remarks** | Salon G (6th Floor) |                      |                                  |
Reuse is the name of the game when it comes to water resource management and Xylem is here to solve your concerns. Let’s implement the treatment solutions that make water reuse both safe and sustainable. Xylem’s broad technology expertise enables us to deliver complete reuse solutions that are energy efficient, reduce waste and proactively address regulations and public perception.

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To see how Xylem is making water reuse a reality - visit booth #4 at the 2015 Industrial and Commerical Water Reuse Conference in Austin, TX.
Coordinating Conference Sponsor

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Susan Fernandes, Director of Operations  
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With operations in 130 countries and employing nearly 8000 people worldwide, GE Water & Process Technologies brings together experienced professionals and advanced technologies to solve the world’s most complex challenges related to water availability and quality, increased productivity and cost reduction, and environmental regulations.

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R.Christopher.Young@mwhglobal.com  
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MWH Global employs more than 7,000 experts including engineers, consultants and construction professionals globally. As specialists in water and natural resources, MWH employees use innovative ideas and technology to solve complex infrastructure and environmental challenges. MWH is Building a Better World. Meet us at mwhglobal.com

Xylem  
Keel Robinson, NA Reuse Marketing & Business Development Manager  
14125 S. Bridge Circle  
Charlotte, NC  28273  
(510) 672-5128  
keel.robinson@xyleminc.com  
www.xyleminc.com

Xylem is a water technology company dedicated to making reuse a reality. Xylem’s broad technology expertise and leading brands – WEDECO, Leopold, Sanitaire, Flygt, YSI – enable reuse solutions that maximize reliability and save energy while meeting the most stringent reuse regulations for pathogens and contaminants.  
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Sarah Deslauriers, Engineer  
2700 Ygnacio Valley Road, Suite 300  
Walnut Creek, CA 94598  
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sdeslauriers@carollo.com  
www.carollo.com

For 80 years, Carollo Engineers has been advancing technology, practicing environmental stewardship, and “Working Wonders With Water®,” as a leader in the science, policy, and implementation of water recycling and reuse, Carollo is committed to our single focus—working to help solve our clients’ toughest water and wastewater challenges.

**IDE Technologies**  
Udi Tirosh, Director, Product Marketing  
P.O.Box 5016  
Kadima 6092000, Israel  
+972-73-2629586  
udit@ide-tech.com  
www.ide-tech.com

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IDE is a world leader in the provision of water solutions - advanced thermal and membrane desalination, industrial water treatment and water reuse. IDE works in partnership with customers worldwide, bringing technological leadership, proven reliability and consistent delivery. IDE - 400 plants, 40 countries, 4 decades.

**Carollo Engineers, Inc.**  
Sarah Deslauriers, Engineer  
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Walnut Creek, CA 94598  
(925) 932-1710  
sdeslauriers@carollo.com  
www.carollo.com

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Gary Engstrom, Technology Manager  
12270 43rd Street, NE  
St. Michael, MN 55376  
(866) 663-7633  
gary.engstrom@uswaterservices.com  
www.uswaterservices.com

U.S. Water solves your most challenging water, process and compliance needs by finding – and eliminating - bottlenecks that affect quality, production and efficiency. Using a solution-agnostic approach, we combine industry leading experience and knowledge with innovative chemistry, equipment, engineering, and service into an integrated, personalized solution that keeps you competitive.

**Alan Plummer Associates, Inc.**  
Ellen McDonald, Principal  
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Fort Worth, TX 76107  
(817) 806-1700  
emcdonald@apaienv.com  
www.apaienv.com

APAI aids municipal and water district customers in the planning and design of water and wastewater treatment and conveyance systems. APAI is also a nationally recognized leader in the planning and implementation of water reuse projects. From the planning and design of one of the first major nonpotable reuse projects in Texas to the development of over 200 million gallons per day of indirect reuse water supply in North Texas alone, we have demonstrated our commitment to supporting our clients with sound expertise and guidance as they address the unique set of technical, regulatory, and institutional challenges of each project.

**HDR**  
Chris Soria, Industrial Sector Marketing Lead  
500 7th Avenue, 15th Floor  
New York, NY 10018-4502  
(212) 542-6113  
Christopher.Soria@hdrinc.com  
www.hdrinc.com

HDR is most well-known for delivering engineering services—providing smart infrastructure to communities across the country—but we are much more than that. We create an unshakable foundation for progress because our multidisciplinary teams include the firepower of archeologists, economists, builders, analysts, artists and scientists. We believe that our work adds value to the world. We recognize that small details can yield big realizations, and that sometimes, brilliant solutions begin in simplicity. Our 8,500 employees, working in 200 locations around the world, push the boundaries of what is possible each and every day.
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Golder Associates is a global employee-owned organization driven by our purpose to engineer earth’s development while preserving earth’s integrity. Our employees deliver solutions to help our clients achieve their sustainable development goals by providing a wide range of independent consulting, design and construction services in our specialist areas of earth, environment and energy.

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Based in San Luis Obispo, CA. H2O Engineering, Inc. – a Certified Small Minority Business – is a full service resource for drinking water, water reuse, and soil and groundwater remediation. We pride ourselves in manufacturing systems that employ leading-edge technologies, superior components, and industry leading automation and controls logic. H2O Engineering is broken into two divisions; the “Pure Water” division focusses on water treatment (industrial, municipal, water reuse, food and beverage, oil & gas, breweries, wineries, etc) and the “Clean World” division focusses on ground water remediation utilizing ozone.
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Layne Christensen provides total water management solutions for industrial facilities, commercial water suppliers, energy companies, government agencies. With over 130 years of experience in the water industry, Layne’s staff is prepared to evaluate water quality and develop solutions tailored to your meet your water supply, treatment, and reuse needs.

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Norchem Corp. is an environmental engineering firm that specializes in the most innovative and robust fully automated chemical-free cross flow wastewater purification and recycling systems. Serving multiple industry verticals, Norchem’s Ultrapure is an award winning technology that successfully reduces BOD, COD, TSS, heavy metals, and oil/grease in the wastewater.

ProChem, Inc.
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Leading provider of industrial water reuse/recycling systems tailored to the need, designing fully automated, end-of-pipe solutions that integrate seamlessly into existing wastewater treatment systems and are equipped with customized web-based remote monitoring. ProChem employs chemists, engineers, fabricators, and service technicians who ensure full quality control over the system’s performance.

Reuse Water Solutions
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Reuse Water Solutions (RWS) specializes in treating industrial-strength, heavily-fouled wastewater to reuse quality. RWS offers a number of treatment options custom-designed for each case, and is exclusively licensed to use the German A3 Maxflow flat plate membrane bioreactor (MBR), which is built for long life, minimal maintenance, and the elimination of fouling. In addition to industrial wastewater, RWS offers solutions for nearly every application, including Oil and Gas, Food and Beverage, Municipalities, Land Development, Agriculture, Government, and Closed System Facilities.

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Sustainable Water is a leading provider of ecologically-driven water reclamation and reuse solutions. Utilizing the world’s leading technologies, Sustainable Water recycles water for heating, cooling and irrigation; bringing annual savings year after year. Turnkey development services begin with comprehensive feasibility studies and continue through design, permitting, construction and operation.
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With more than 40 years of experience in the water treatment industry, Honeywell’s UOP provides total solutions that meet customers’ industrial wastewater treatment needs and successfully removes impurities such as nutrients, heavy metals and organics to meet water reuse goals.

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Xylem is a water technology company dedicated to making reuse a reality. Xylem’s broad technology expertise and leading brands – WEDECO, Leopold, Sanitaire, Flygt, YSI – enable reuse solutions that maximize reliability and save energy while meeting the most stringent reuse regulations for pathogens and contaminants. Visit www.xylem.com/treatment or visit booth #16.

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