

9th Annual Water and Sanitation Innovations for the Arctic
Friday, January 25th, 2019

**ALTERNATIVE APPROACHES TO ONSITE/DECENTRALIZED WATER PROVISION, WITH
A SPECIFIC FOCUS ON GRAY WATER RECYCLING TECHNOLOGIES**

**A Workshop Cosponsored by:
U.S. Arctic Research Commission and the Centers for Disease Control and Prevention**

Friday, January 25th – The Endeavor Room at the Hotel Captain Cook (939 W. 5th Avenue, Anchorage, AK)

ALPHA Alaska Health Summit-associated session of interest: ***“Progress Towards Providing In-Home Water and Sanitation Services in Rural Alaska Homes: Healthy Alaskans Indicator #19”*** – January 22nd from 10:30 - 11:45 AM. Link to ALPHA Alaska Health Summit Schedule can be found at: <https://summit.alaskapublichealth.org>

Workshop objectives:

During this workshop we will identify gaps in the current practices and knowledge surrounding onsite/decentralized water reuse (in general) and investigate risk pathways pertaining to gray water recycling. This information will be used to determine and prioritize research needs.

8:00 A.M. **Room is open for participants, coffee will be served**

8:30 A.M. **Meeting commences**

Session 1: Setting the Stage

8:30- 10:00 A.M.

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| 8:30-8:45 | Introductions/introductory remarks/workshop goals (<i>C. Rosa, USARC</i>) |
| 8:45-9:00 | Overview Part 1: Update on Healthy Alaskans 2020 Goals (<i>T. Hennessy, CDC</i>) |
| 9:00-9:15 | Overview Part 2: A Review of Current and Historical Gray Water Reuse in Alaska: How does Alaska differ from the rest of the world? (<i>B. Griffith, ADEC</i>) |
| 9:15-9:30 | Overview Part 3: The Alaska Water and Sewer Challenge: A Summary of Community Perspectives on Water Reuse (<i>K. K'eit, Zender Environmental Health and Research Group</i>) |
| 9:30-10:00 | Keynote Address: Advancing Decentralized Water Systems Across North America (<i>P. Kehoe, San Francisco Public Utilities Commission</i>) |

10:00-10:30 A.M. ***Break***

Session 2: Risks, Approaches and Technology

10:30-12:00 P.M.

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| 10:30-11:00 | Keynote Address: Characterizing the Risk Associated with Water Reuse (<i>Dr. J. Garland, US EPA Office of Research & Development</i>) |
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11:00-11:30	Keynote Address: Remote Applications of Water Reuse: Military Installation Approaches (<i>Dr. M. Page, US Army Engineer Research and Development Center</i>)
11:30-noon	Group Discussion and Questions
Noon-1:00 P.M.	<i>Box lunch on site</i>
<u>Session 3: Breakout group assessment activity</u>	
1:00-1:30 P.M.	Pre-breakout Group Discussion/Goals of Breakout Session
1:30-3:00 P.M.	<i>Breakout Groups 1-3 Meet</i> <i>Group 1:</i> Regulatory approaches and risk assessment <i>Group 2:</i> Technical capacity development to support solutions <i>Group 3:</i> Social/community acceptance of gray water recycling technologies
3:00-3:30 P.M.	<i>Break</i>
3:30-4:30 P.M.	Group Reports and Wrap Up

Packet Contents:

- (Agenda)
- Participant list
- Suggested reading list
 - Independent Panel report on Public Health Guidance recommendations (great reference to our approach and the QMRA work done by Dr. Jay Garland -invited speaker- and his team): <https://sfwater.org/Modules/ShowDocument.aspx?documentID=10493>
 - San Francisco's Non-potable Guidebook (how to implement from a design engineer/developer perspective): <https://sfwater.org/Modules/ShowDocument.aspx?documentID=11629>
 - Model Regulations: <https://sfwater.org/Modules/ShowDocument.aspx?documentID=11586>
- USARC Goals Report (thumb drive) and Alaska Rural Water and Sanitation Working Group links