

Reverse Osmosis Roundtable

December 6, 2005 - 9:00 – 11:00 am
Farmer's Reservoir and Irrigation Company

MINUTES

Attendance:

Kipp Scott – ECCV	Alan Pratt – Integra Engineering
Charlene Seedle – South Adams County - WSD	Steven Janssen – Henrylyn Irrigation Dist.
Vic Lucero – City of Thornton	Ken Bollers – Henrylyn Irrigation Dist.
Barbara Biggs – Metro Wastewater	Joe Bernosky – Leonard Rice Engineers
Mark Pifher – City of Aurora	Marco Aieta – Carollo Engineers
Dennis Hanson – City of Thornton	Rod Brauer – CH2M Hill
Kelly DiNatale - CDM	Ken Thompson – CH2M Hill
John Akolt – FRICO	Blair Corning – S. Adams County – WSD
Mike Carnevale – TST Inc.	Wayne Schroeder – PV Water Holding
Laurie Rink - FRICO	Newell Wright – Gateway
Phil Brandhuber – HDR Engineering	Jennifer Hudson – Stewart Environmental
Pat Nelson – CH2M Hill	John Stednick – CSU
Andrew Neuhart - WQCD	Ginny Duncan – Southwestern Investment
Cindy Titus – Lochbuie	Rod Baumgartner – Henrylyn
Tim Smith – City of Aurora	Kim Linton – AWWA Research Foundation
Shonnie Cline – City of Brighton	
Karla Kinser – MWH	

1. Introductions

See above list of attendees.

2. Biodestruction of Wastewater-Blended Nitrate Residuals Using a Fixed-Bed Reactor

Marco Aieta, Carollo Engineers, gave a presentation on a project Carollo is working on with the Magna Water District. The presentation covered: 1) background on treatment principles, 2) results of bench and pilot-scale testing, 3) treatment elements associated with a full-scale 4.5 mgd treatment facility, and 4) comparative cost information.

3. City of Aurora's South Platte Project Purification Approach

Rod Brauer, CH2M Hill, presented Aurora's plan for drinking water treatment from South Platte River diversions near Brighton. His presentation covered: 1) pre-established water quality goals, 2) the natural purification process utilized from diversion through delivery, 3) conventional treatment process selection to couple with natural purification methods, and 4) a water quality analysis of potential brine discharge impacts on the South Platte River.

4. RO Reject Water Discharge Permitting Considerations

Andrew Neuhart, Water Quality Control Division, covered the topic of regulatory permitting considerations which included the alternatives of: 1) surface water discharge, 2) groundwater discharge, 3) land application, 4) deep well injection, and 5) pretreatment options.

5. Draft Facilities Map

Kipp Scott, East Cherry Creek Valley Water and Sanitation District, discussed progress made on a geographic analysis of current and future water treatment needs in the middle and lower parts of the South Platte basin. It was determined that data was still needed from Brighton, Milliken, Wellington, Fort Lupton, South Adams, and the private facilities that currently discharge to the Sterling wastewater plant.

6. Agenda Topics for Future Meetings

The group agreed upon an interest in focusing the next meeting on the topic of deep well injection for disposal purposes.

7. Next Meeting

The next meeting will be held on Tuesday, February 7th, from 9:00 to 11:00 at the offices of FRICO, 80 S. 27th Avenue, Brighton.

An agenda will be sent out prior to the meeting date. Anyone who wishes to circulate work products or other prior to the meeting should send them to Laurie Rink at lrink@uos.net.