



MEETING MINUTES
December 16, 2008

Attendees:

Alex Christensen	Black & Veatch	christensenas@bv.com
Bill Chavez	SRCS D	chavezb@sacsewer.com
Cara Ingebrigtsen	Brown & Caldwell	cingebrigtsen@brwncald.com
Cindy Preuss	Harris & Associates	cpreuss@harris-assoc.com
Colin Dudley	Brown & Caldwell	cdudley@brwncald.com
Edgar Benitez	Ameron	edgar_benitez@ameron.com
Jimmy Dang	Kennedy Jenks	jimmydang@kennedyjenks.com
John Wong	SRCS D	wongj@sacsewer.com
Jose Dominguez	Exaro Technologies	jd@exarotec.com
Kevin Kai	Brown & Caldwell	kkai@brwncald.com
Manny Najjar	V&A Engineering	mnajjar@vaengineering.com
Mike Garcia	Hobas Pipe USA	michaelgarc@gmail.com
Robert Ryder	Kennedy Jenks	robertryder@kennedyjenks.com
Roberts McMullin	URS Corporation	rob_mcmullin@urscorp.com
Sandie De Medeiros	CDM	demedeirosl@cdm.com
Stan Shogren	Kennedy Jenks	stanshogren@kennedyjenks.com
Val Frenkel	Kennedy Jenks	valfrenkel@kennedyjenks.com
Willie Ryan	SRCS D	ryanw@saccounty.net

Presentation: *Desalination and Pipe Corrosion* by Bob Ryder and Val Frenkel, from Kennedy Jenks.

Bob and Val gave an informative presentation covering:

1. Desalination
2. Corrosion effects on various pipe materials
3. Corrosion prevention techniques

Highlights of the presentation include:

- Desalination involves the process of reverse osmosis to produce treated water.
- The North San Francisco Bay has daily and seasonal variations in salinity and suspended solids that increase productivity levels when using desalination.
- Kennedy Jenks performed a desalination study for the MMWD at the SWRO pilot plant.
- Pretreatment of the pilot plant included micro and ultra filtration.
- MMWD customers found taste of desal water as good as water from local reservoirs.
- Desalination is a corrosive process on pipes, membranes, tanks, etc.
- Reclaim salts and minerals from seawater brines can be used by pharmaceutical companies because of the purity and quality.
- Preventative measures for corrosion protections include:

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- Stainless steel or plastic equipment and piping.
- Water quality conditioning, blending, and use of inhibitors.
- Dielectric coatings and cathodic protection on tanks.
- Real time or frequent corrosion rate monitoring.
- The use of duplex stainless steel, nickel cast iron, titanium, aluminum bronze, plastics, or dielectric coatings with cathodic protection is recommended.
- Cement with microsilica, pozzolan permeation inhibition, and nitrate-chloride inhibitor is also recommended.
- Brine reject water is even more corrosive than intake water.

Handouts included:

- No handouts were provided at this presentation.

Thank you Bob and Val for an outstanding presentation!

General:

November 18, 2008 Meeting Minutes: A motion was made to approve the minutes, which was seconded and minutes are approved with no corrections.

By-Laws Update: Current changes to non-profit organizations required the existing PUG By-Laws to be revised. PUG previously met with consultants to review the existing PUG By-Laws. Board members reviewed a formal draft of the revised By-Laws and produced comments.

Website Update: PUG board members completed and executed a contract with a website development consultant to ameliorate the current Northern California PUG website. Board members anticipate launch by the end of January.

Announcements: Please submit your 2008/2009 membership renewals. Remember that membership has numerous benefits, such as discounts for courses and conferences, participation in raffles held at random monthly meetings, discounts on attending the annual seminar, etc. Get your renewals and/or new member applications in today.

The 2009 UCT International Conference & Exhibition by Underground Construction Technology will be held **January 20 through 22, 2009** in San Antonio, Texas. Please see www.uctonline.com for more information and registration.

The 17th Annual PUG Sharing Technologies Seminar 2009 will be held **Thursday, February 19, 2009** at Hs. Lordship's in Berkeley. Registration forms will be sent soon. Please sign up for an outstanding day full of informative presentations and great door raffle prize.

The 2009 Big Show Expo by the National Utility Contractors Association will be held **March 4 through 6, 2009** in Phoenix, Arizona. For more information and registration, please see www.nuca.com.

The 2009 International No-Dig Show by NASTT will be held **March 29 through April 3, 2009** in Toronto, Canada. Come and join the PUG Board to this amazing event. Please see www.nodigshow.com for more information and registration.

SSC issues The Boring Bulletin covering boring, drilling, and vacuum excavation applications. Lunch & learn classes are offered monthly at the SSC headquarters and online from 10:30AM to 12:00PM Pacific Standard Time, see www.sscboring.com/education for more information. The classes include:

- Small Boring Unit Technology – **January 8, 2009**

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- Trenchless Excavation Design – **February 5, 2009**
- Vacuum Technology – **March 12, 2009**
- Intro to Pipe Bursting & Ramming – **April 2, 2009**
- HDD Intro & Applications – **May 7, 2009**
- Large Diameter Boring Projects – **June 4, 2009**

WEF Specialty Conferences 2009 include the following:

- Disinfection 2009 Conference in Atlanta, Georgia – **February 28 – March 3, 2009**
- AWWA/WEF Information Management & Technology Conference and Expo in Charlotte, North Carolina – **March 1 – 4, 2009**
- Collection Systems 2009 Conference in Louisville, Kentucky – **April 19 – 22, 2009**
- CWEA Conference in Palm Springs, California – **April 28 – May 1, 2009**
- Pipeline 2009 Conference in San Diego, California – **August 16 – 19, 2009**
- WEFTEC Exhibition & Conference in Orlando, Florida – **October 10 – 14, 2009**

Please contact Roberts McMullin for further information on any of these above announcements.

Social Event: The PUG Board is trying to organize a social event to help promote group activity. Three ideas were discussed, which were:

- Go-Kart racing in Burlingame. See www.gokartracing.com.
- Attend Pyramid Brewing in Walnut Creek or Berkeley. See www.pyramidbrew.com.
- Rock climbing in Berkeley or Walnut Creek.

Project Discussions: Stan Shogren discussed the Kennedy Jenks Turlock Irrigation District project, which involves the construction of two pipelines: 63,600 LF of 30" and 17,300 of 36". The pipelines will deliver water to the Cities of Turlock, Hughson, Ceres, and Modesto. The project has been put on hold until the four cities can organize funding.

Edgar Benitez discussed a current Ameron project that involves 12 miles of 54" CCP and WSP for the City of Stockton Water as part of the Delta Water Supply. Notice to proceed is anticipated to be submitted in May 2009.

Alex Christensen discussed the Black & Veatch Alameda Siphon No. 4 Project for the SFPUC. This project will provide a new pipeline for redundancy in Sunol Valley. Segments of the pipeline will involve microtunneling and will require thicknesses up to 1 inch. The 95% submittal was completed last week, December 9, 2009.

Next Meeting:

Our next general meeting will be held **TUESDAY, JANUARY 20, 2009** at the offices of **Brown & Caldwell** located at **201 N. Civic Dr., Suite 300, Walnut Creek, CA**. The topic will be on **Horizontal Directional Drilling Technology** given by **Richard Evans of the HDD Company, Inc.** Please call 510-874-3102 or email rob_mcmullin@urscorp.com to RSVP.