



MEETING MINUTES
October 18, 2011

Attendees:

Agustin Lopez	SASD	lopeza@ci.pittsburg.ca.us
Alex Rozul	CCCSD	arozul@centralsan.org
Andrew Hawksworth	Carollo	ahawksworth@carollo.com
Allen Law	City of Oakland	alaw@oaklandnet.com
Amanda Lei	City of San Jose	amanda.lei@sanjoseca.gov
Anne Prudhel	Corollo	aprudhel@carollo.com
Bill Chavez	Sacramento Regional	chavezb@sacsewer.com
Bill Miller	City of Sacramento	bmiller@cityofsacramento.org
Bonneau Dickson	Bonneau Dickson	dickson.bonneau@gmail.com
Bryan Ballardo	City of Pittsburg	bballardo@ci.pittsburg.ca.us
Dale Mathison	City of Sacramento	dmathison@cityofsacramento.org
David Wong	Nus	david.wong@nus.com
Deanna Tanner	Brown & Caldwell	dtanner@brwnald.com
Debbi Myers	SASD	myersd@sacsewer.com
Freddy Rivera	City of Pittsburg	frivera@ci.pittsburg.ca.us
Gary Warren	EBMUD	gwarren@ebmud.com
Greg Dawson	Napa Sanitation District	greg.dawson@countyofnapa.gov
Gunawan Santoso	City of Oakland	gsantoso@oaklandnet.com
Hayde Pacheco	City of San Jose	hayde.pacheco@sanjoseca.gov
Huy Nguyen	City of San Jose	huy.nguyen@sanjoseca.gov
Josh Degarmo	Napa Sanitation District	joshua.degarmo@countyofnapa.gov
Ken Deibert	WCWD	kdeibert@wcwd.org
Liz Hirschhorn	Whitley Burchett	lhirschhorn@whitleyburchett.com
Melissa Marshall	City of Sacramento	mmarshall@cityofsacramento.org
Michael Laderman	CSG Consultants	michaell@csgengr.com
Roberts McMullin	EBMUD	rmcmulli@ebmud.com
Rolando Bueno	EBMUD	rbueno@ebmud.com
Sandie Dudley	CDM	dudleysl@cdm.com
Sasha Mestetsky	CCCSD	smestets@centralsan.dst.ca.us
Steve Kiyama	SASD	kiyamas@sacsewer.com
Stu Williams	City of Sacramento	swilliams@cityofsacramento.org
Susan Wang	City of Oakland	swang@oaklandnet.com
Tad Pilecki	CCCSD	tpilecki@centralsan.org
Thuy Nguyen	City of San Jose	thuy.nguyen@sanjoseca.gov
Tope Hall	Whitley Burchett	thall@whitleyburchett.com
Tracie Sakakihara	Hatch Mott MacDonald	tracie.sakakihara@hatchmott.com
Vern Phillips	Harris & Associates	vphillips@harris-assoc.com

Presentation: Trenchless Pipeline Point Repair Techniques by Vern Phillips, Senior Vice President of Harris & Associates.

Highlights from the presentation include:

1. The presentation focused on three methods of point repairs:
 - a. Injection grouting
 - i. Chemical
 - b. Mechanical inserts
 - i. Quick Lock
 - ii. Weko Seals
 - iii. Link Pipe
 - c. Segmented linings
 - i. Fiber Reinforcement Polymer (FRP)
 - ii. Cured-in-Place-Pipe (CIPP)
2. Typical injection grouting types include: acrylic gel like AV-100, pumped 1:1 and hydrophilic urethane gel pump 8:1.
3. Injection grouting is inexpensive and has a life expectancy of 5 to 15 years on average.
4. Mechanical inserts are installed using a robotic device for smaller diameters. For large diameter pipelines, installation can be performed by hand.
5. FRPs include carbon or glass fibers that are very thin (0.025 in or 0.7 mm).
6. First Case study included 15 CIPP lining repairs. See stats:
 - a. Cost: \$3,500 for 8-inch repair and \$15,000 for 24-inch repair
 - b. Time: 3 hours per repair
7. Second Case study included 6 point repairs (3 as CIPP and 3 as open trench). See stats:
 - a. Cost: \$2,400 to \$7,000 for CIPP
 - b. Cost \$4,500 to \$9,000 for open trench
 - c. On average open trench is 44% more expensive
8. For more information on the presentation, visit our website at www.norcalpug.com.

Handouts: No handouts were provided.

Thank you for an excellent presentation Vern. We appreciate your help.

General:

August 16, 2011 Meeting Minutes: A motion was made to approve the minutes, which was seconded and minutes are approved with no corrections.

Announcements:

2011/2012 Membership: Please submit your 2011/2012 membership renewals. The new forms are located on the PUG website: www.norcalpug.com. Memberships cost is \$350 per entity. 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.

Annual Seminar 2012: Abstracts were received and will be reviewed by the PUG Board on October 25, 2011. The Board will select the top Abstracts for the 2012 Seminar. More information to follow soon.

UIM Webinars: The Water Utility Infrastructure Management (UIM) website hosts on-line and provides archived webinars related to water management. For more information, visit the UIM website: www.uimonline.com/index/webinars. Upcoming webinars include:

ASCE Pipelines 2012: ASCE is accepting Abstracts for the Pipelines 2012 Conference in Miami Beach, Florida during August 19 through 22, 2012. The deadline for Abstract submittal is Wednesday, November 9, 2011. For more information, visit www.piplinesconference.org.

Water Environment Federation: WEF is offering a distance learning webcast (\$155 for members and \$195 for non-members) on Perspectives on Pipeline Renewal. Visit www.wef.org for more information.

Projects Discussions:

Josh Degarmo and Greg Dawson of Napa Sanitation District discussed two current projects. The projects included:

1. Replacement of 10,000 feet of 6, 8, 10, and 12-inch diameter pipe and over 400 laterals with new clay pipe. The project will be out to Bid in the next few weeks.
2. Installation of a new 24-inch diameter recycle water pipeline that will extend from the Junior College to the State Hospital.

A PUG member asked the group if anyone knew of agency specific specifications for sanitary sewer bypasses. Alex Rozul of Central San discussed the District's standards for sanitary sewer bypasses. Central San requires the following:

1. A performance bypass specification that uses flows developed using the District's comprehensive hydraulic model
2. Shop drawing review
3. Contractor to determine bypass connection points
4. Supervised 24 hours a day for 7 days a week for large bypasses

Next Meeting:

The next general meeting is scheduled for Tuesday, November 15, 2011. The presentation topic is on Inland Pipe Rehabilitation's (IPR's) Innovative Trenchless Technology Solutions by Jane Fletcher of IPR and Scott Gesicki of GeoTree Technologies. Please call Roberts McMullin at 510-287-1296 or email rmcmulli@ebmud.com for additional information on this month's meeting minutes.