



MEETING MINUTES

March 17, 2009

Attendees:

Allan Law	City of Oakland	atlaw@oaklandnet.com
Bonneau Dickson	Consulting Sanitary Engineer	dickson.bonneau@gmail.com
Brian Chan	Foster City Public Works	bchan@fostercity.org
Bryan Vansell	Mission Clay Products	MCPBVZ@netscape.net
Cindy Preuss	Harris & Associates	cpreuss@harris-assoc.com
Colin Dudley	Brown & Caldwell	cdudley@brwncald.com
Collins Orton	TT Technologies	corton@tttechnologies.com
Cynthia Cano	Carollo	ccano@carollo.com
Elizabeth Obon	SRCSD	obonel@sacsewer.com
George Mallakis	TT Technologies	gmallakis@tttechnologies.com
Jeff Beck	Insituform	jbeck@insituform.com
Jonathan Lee	WVSD	jlee@westvalleysan.org
Kyle Carbert	Harris & Associates	kcarbert@harris-assoc.com
Lani Good	Brown & Caldwell	lgood@brwncald.com
Linh Nguyen	CCCSO	lguyen@centralsan.org
Mark Wenslawski	CCCSO	mwenslawski@centralsan.org
Mike Garcia	Hobas Pipe	mgarcia@hobaspipes.com
Rita Cheng	CCCSO	rcheng@centralsan.dst.ca.us
Roberts McMullin	URS Corporation	rob_mcmullin@urscorp.com
Sandie De Medeiros	CDM	demedeiros@cdm.com
Sasha Mestetsky	CCCSO	smestets@centralsan.dst.ca.us
Shirley Kwan	City of Oakland	skwan@oaklandnet.com
Stan Shogren	Kennedy Jenks	stanshogren@kennedyjenks.com

Presentation: *Pipe Bursting with VCP* by Collins Orton of TT Technologies, Inc.

Collins gave an outstanding presentation covering:

1. Pipe bursting applications using VCP
2. Example project in Phoenix, Arizona
3. Example project in Riverside, California

Highlights of the presentation include:

- Static Pipe Bursting with VCP uses the following methods:
 - Static Pull – Pulls expander through existing pipe
 - Static Push – Pushes expander through existing pipe
 - Combination – Uses a combination of static pull and push
- Upsizing of the host pipes:
 - 0-25% is common

Minutes by: Roberts McMullin, URS
Secretary, Nor Cal PUG

- 25-50% is challenging
- 50-125% is experimental
- Host pipes are typically CIP, DIP, Clay, RCP, PVC, Truss, CMP, or ACP.
- Soil conditions are very important for pipe bursting. Original backfill is best and sandstone conditions are very poor.
- Bentonite Lubrication is required for large diameter poor soil bursting projects.
- The largest pulling machine can pull up to 650,000 lbs.
- Lateral reconnections must be performed following the pipe bursting.
- The City of Phoenix project involved pipe jacking the following sanitary sewers:
 - 720 ft of 12-inch to 15-inch VCP
 - 4,000 ft of 12-inch to 18-inch VCP
 - 2,500 ft of 15-inch to 18-inch VCP
 - A 225 ft section required jack and bore of 18-inch VCP
- The City of Riverside project involved the upsizing of a 6-inch to an 8-inch VCP.

Handouts included:

- CD of the presentation and supporting documentation.
- TT Technologies Groundburst Static Pipe Bursting System Handout
- Mission Rubber Company Handout
- Mission Clay Jacking Pipe Handout
- Mission TwisTee Handout

Thank you Collins for a great presentation!

General:

January 16, 2008 Meeting Minutes: A motion was made to approve the minutes, which was seconded and minutes are approved with no corrections.

Financial Statement: The PUG Board noted that a total of \$50,000 is in the bank as of March 2009.

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 Bylaws. The Board is finalizing the documents and will provide to all members for review soon.

Website Update: PUG board members completed and executed a contract with a website development consultant to update the current Northern California PUG website. The new website has been launched and bugs are still being corrected. As a result, not all of the content is included, but is coming very soon. The new website will have a links page that will provide links to vendors, publications, new technologies, and more.

17th Annual PUG Sharing Technologies Seminar 2009: The seminar was held on February 19 at Hs. Lordship's in Berkeley. There were a total of 146 people that attended the seminar. PUG will just break even in profit for the event. It was noted that the key speaker was impressed with PUG and the great seminar put together.

Board Positions: Request for nominations of Treasurer and At-large Representative will be held in April. More information will be provided at the next monthly meeting.

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.

Minutes by: Roberts McMullin, URS
Secretary, Nor Cal PUG

The 2009 International No-Dig Show by NASTT will be held **March 29 through April 3, 2009** in Toronto, Canada. Come and join three members of the PUG Board at 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:

- Intro to Pipe Bursting & Ramming – **April 9, 2009**
- HDD Intro & Applications – **May 7, 2009**
- Large Diameter Boring Projects – **June 4, 2009**
- Benefits of Subsurface Utility Engineering – **July 9, 2009**

WEF Specialty Conferences 2009 include the following:

- 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**

Social Event: The PUG Board is trying to organize a social event to help promote group activity. The Board is currently working to setup a Pyramid Brewing “Hangout Night” in Walnut Creek or Berkeley sometime in the near future. More information will be provided at the next monthly meeting.

Project Discussions: Jonathan Lee provided information on a sanitary sewer pipeline project. The engineer’s estimate was \$530,000 and the low bidder was \$308,000. There were three other low bidders in the \$300,000 range. Ranger Pipeline was the low bidder. The high bidder was \$600,000.

Roberts McMullin discussed a recycled water pipeline project in Napa County that will provide dilution water to existing salt marshes for restoration. The pipeline is approximately 5 miles in length and will be either PVC or HDPE.

Stan Shogren discussed a project involving an existing 1,800 ft 60-inch raw water pipeline that is in a slope failure area, which will cause the pipe to fail. The plan is to drill piles down below the layer where the slope will fail and support a new 72-inch pipe above ground. Investigations are being performed to determine the required depth for the piles.

Next Meeting: The next general meeting will be held **Tuesday, April 21, 2009** at the offices of [Brown & Caldwell located at 201 N. Civic Dr., Suite 300, Walnut Creek, CA](#). The topic will be on **Managing Geotechnical Risk on Trenchless Project by Dave Mathy of DCM/GeoEngineers, Inc.** Please call 510-874-3102 or email rob_mcmullin@urscorp.com to RSVP or for additional information on this month’s meeting minutes.