



MEETING MINUTES
April 20, 2010

Attendees:

Amy Hernandez	CCCSD	ahernand@centralsan.org
Brian Avon	Carollo Engineers	bavon@carollo.com
Cara Ingebrigtsen	Brown & Caldwell	cingebrigtsen@brwncald.com
Cindy Preuss	Harris & Associates	cpreuss@harris-assoc.com
Colin Dudley	Brown & Caldwell	cdudley@brwncald.com
Dale Mathison	City of Sacramento	damthison@cityof sacramento.org
Dolly Chen	HDR	dolly.chen@hdrinc.com
Don Wible	Veolia ES	don.wible@veoliaes.com
Erik Zalkin	Brown & Caldwell	ezalkin@brwncald.com
Gunawan Santoso	City of Oakland	gsantoso@oaklandnet.com
Jing Wong	City of Oakland	jwong@oaklandnet.com
Ken Cook	WCWD	kcook@wcwd.org
Kurt Vincelette	R&B Company	kvincelette@rbcompany.com
Mark Wenslawski	CCCSD	mwenslawski@centralsan.dst.ca.us
Melissa Marshall	City of Sacramento	mrollins@cityof sacramento.org
Mike Garcia	HOBAS	mgarcia@hobaspips.com
Mirko Maher	Brown & Caldwell	mmaher@brwncald.com
Nona Espinosa	Nolte Associates	nona.espinosa@nolte.com
Gary Gulseth	City of Sacramento	99olscte@cityof sacramento.org
Roberts McMullin	URS Corporation	rob_mcmullin@urscorp.com
Russell Eberwein	Harris & Associates	reberwein@harris-assoc.com
Shirley Kwan	City of Oakland	skwan@oaklandnet.com
Stan Shogren	Kennedy Jenks	stanshogren@kennedyjenks.com
Susan Wang	City of Oakland	swang@oaklandnet.com

Presentation: Lateral CIPP and T-Liners by Don Wible of Veolia ES Sewer Services.

The presentation covered:

1. CIPP laterals from cleanout to manhole or main
2. T-Liners laterals from main to cleanout
3. T-Liner Case study in Wilhelmina, Hawaii

Highlights from the presentation include:

1. LMK CIPP manufacturing facilities is located in Ottawa, IL, since 1993.
2. VAC-A-TEE is a PVC saddle that is snapped onto a lateral pipe through a small diameter (18-20 inches) vacuum excavated hole. Installation requires an auger head, clay core bit, cast iron core bit, adhesive dispenser, and the VAC-A-TEE kit.
3. VAC-A-TEE is a great means to install a new cleanout connection efficiently without disruption.

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4. T-Liner is an acceptable solution for renewing the main to lateral connection and is ASTM F2561 compliant.
5. T-Liners create a structural pipe that does not fail, delaminate, or fall away from the connection.
6. T-Liners can accommodate T and Y connections.
7. The main and lateral CIPP tubes are vacuum impregnated with resin.
8. A lateral camera is used at the cleanout to ensure the correct positioning of the T-Liner for inflation and final installation.
9. The liners have the option of steam or ambient air curing.
10. The "Shorty" is a T-Liner that extends only 3 feet up the lateral from the main connection.
11. The "Stubby" is a T-Liner that extends only 6 inches up the lateral from the main connection.
12. Over 30,000 T-Liners have been installed to date.
13. Approximate T-Liner cost is \$3,500 per unit for high quantities and close proximity.
14. Refer to the PUG website (www.norcalpug.com) for the complete presentation.

Handouts: Don provided brochures for those interested on the Veolia ES products.

Thank you Don for an informative presentation!

General:

March 16, 2010 Meeting Minutes: A motion was made to approve the minutes, which was seconded and minutes are approved with no corrections.

Announcements:

2009/2010 Membership: Please submit your 2009/2010 membership renewals. 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.

Field Trip: PUG scheduled a field trip for May 18, 2010 at the manufacturing facilities of Gladding McBean in Lincoln, California. Buses will be provided to transport members to and from the facility. Patrick Symons of Gladding McBean will be conducting the tour with a few coworkers. Non-members can take advantage of this opportunity for only \$25 a person. More information will be provided in an upcoming membership email.

SSC Webinars: SSC continues to present monthly lunch & learns, webinars, and events covering boring, drilling, and vacuum excavation applications. See www.sscboring.com/education for more information. The upcoming events include:

- Event: Trenchless Case Studies – **June 3, 2010**
- Webinar: Horizontal Boring Conditions, Methods, and Alternatives – **July 8, 2010**
- Lunch and Learn: HDD Applications – **August 5, 2010**

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. See below for upcoming webinars:

- Finance and Funding – **June 1, 2010**
- Asset Management – **August 1, 2010**

Trenchless Technologies Webinars: The Trenchless Technologies website hosts on-line webinars related to the trenchless industry. For more information, visit their website at: <http://www.trenchlessonline.com/index/webinars>. See below for upcoming webinars:

- Gravity Sewer Installations Using HDD – **May 26, 2010**
- Large Diameter Pipe Rehabilitation – **June 1, 2010**

NASTT No-Dig Show: The 2010 NASTT No-Dig Show will be held in Chicago, Illinois during **May 2 – 7, 2010**. Some of the PUG Board will be attending this year to represent Northern California. NASTT hosts an auction to help college students with scholarships. This year, PUG will donate a GPS watch for the auction. For more information, visit <http://www.nodigshow.com/>. We hope to see you there...

Water Environment Federation: Upcoming WEF Specialty conferences can be found on the website: <http://www.wef.org/Conferences>. See below for upcoming events:

- Collection Systems 2010 in Phoenix – **June 13 – 16, 2010**
- WEFTEC 2010 in New Orleans – **October 2 – 6, 2010**

Frontier Pipeline: Frontier Pipeline, a Minnesota based HDD company has been acquired by Southeast Directional Drilling.

Pure Technologies: Pure Technologies introduces the PUREROBOT that combines CCTV and electromagnetic testing of prestressed concrete cylinder pipe (PCCP).

Underground Construction Technology (UCT): The 2011 UCT Conference is calling for papers to present. Visit the UCT website for more information: www.uctonline.com.

WESTT 2010 Conference: The WESTT 2010 Conference is looking for article submissions to be included in the annual magazine. For more information, contact Paddy O'Toole at 204-255-6524 at PTR Communications, Inc.

Projects Discussions: Cindy Preuss discussed a WVSD project for Jonathan Lee that involved prioritization of the sanitary sewer system for repair. The project evaluated risk of failure, CCTV, Flow, hydraulic modeling, and inspection data to develop a ranking of high priority areas that require repair. This information will be included in the Capital Improvement Plan for the District.

Ken Cook of WCWD discussed a current pipe bursting project with engineer's estimate of \$1.5 million. The low bidder at \$900K was California Trenchless. The high bidder was at \$1.4 million.

The City of Oakland discussed the advantages of using CIPP or pipe bursting rather than plastic pipe sliplines for smaller diameter pipes. Roots can work between the host pipe and the slipline pipe to cause cracking or deformations.

The City of Sacramento discussed a few current projects. (1) Infrastructure updates to an area that is scheduled for pavement replacement with pervious pavement. (2) CIPP liner of over 3,000 ft for a 30" and 33" storm drains to eliminate infiltration and subsidence within the area. (3) A project goes out to bid tomorrow for the replacement of over 2,600 feet of 66" to 84" pipe. The new pipe will be RCP, HOBAS, or Weholite, depending on the low bidder.

Russell Eberwein of Harris & Associates discussed two projects for the City of Los Altos. A jack and bore project to replace 380' of an existing 6" ACP sewer with a new 8" sewer main under Foothill Expressway. The other is a pipe bursting project to upsize 3,725' of 15" VCP sewer to 18" conduit.

Next Meeting: No general meeting will be held in May. A field trip to the Gladding McBean manufacturing plant is scheduled for May 18, 2010. More information will be provided in an upcoming email. Please call Roberts McMullin at 510-874-3102 or email rob_mcmullin@urscorp.com for additional information on this month's meeting minutes.