



MEETING MINUTES
December 15, 2009

Attendees:

Alex Park	Brown & Caldwell	apark@brwncald.com
Bill Chavez	SRCS	chavezb@sacsewer.com
Cara Ingebrigtsen	Brown & Caldwell	cingebrigtsen@brwncald.com
Colin Dudley	Brown & Caldwell	cdudley@brwncald.com
Don Wible	Veolia	don.wible@veoliaes.com
Falguni Amin	City of Santa Clara	famin@santaclaraca.gov
Glen Anderson	Schaaf & Wheeler	granderson@swsu.com
Jack Huntamer	EBMUD	jhuntame@ebmud.com
Ken Cook	WCWD	kcook@wcwd.org
Kurt Vincelette	R&B Company	kvincelette@rbcompany.com
Lewis Titus	Titus	ltitus@neverleek.com
Liz Hirschhorn	Whitley Burchett	lhirschhorn@whitleyburchett.com
Marisa Boyce	EBMUD	mboyce@ebmud.com
Mike Garcia	HOBAS	michaelgarc@gmail.com
Nancy Ku	PSOMAS	nancy.ku@psomas.com
Nona Espinosa	Nolte	nona.espinosa@nolte.com
Robert Wilson	City of Santa Clara	rwilson@santaclaraca.gov
Roberts McMullin	URS Corporation	rob_mcmullin@urscorp.com
Sarah Rhodes	Carollo	srhodes@carollo.com
Sasha Mestetsky	CCCS	smestets@centralsan.org
Stan Shogren	Kennedy Jenks	stanshogren@kennedyjenks.com

Presentation: *GSE Studliner HDPE Concrete Embedment Liner* by Lewis Titus of **Titus Industrial Group, Inc.**

The presentation covered:

1. Introduction to GSE Studliner
2. New Construction Case Study
3. Rehabilitation Case Study

Highlights from the presentation include:

1. Studliner provides corrosion protection, erosion protection, water tight construction that eliminates infiltration and inflow, reduction in life cycle costs, odor control, and safety.
2. Concrete is limited by corrosive environment such as H₂S, alkalis, acids, caustics, salts, and hazardous wastes. A studliner protects the concrete from contact with these corrosive elements.
3. Studliner also provides protection from abrasive flows.
4. Studliner completely encloses the flow (full 360 degrees) preventing any flow in or out, which is excellent for sanitary sewers.

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

Page 1 of 3

5. Studliner has 110 studs per square foot and a minimum pull out strength of 1,400 pounds per square foot.
6. Studliner is manufactured in the USA using a two step process.
7. Studliner systems are rated for up to 90' of static head.
8. Studliner joints are fused together using an electro-fusion weld technology that is fast and reliable.
9. Studliner can be used on pipelines 30" and larger, manholes, pump/lift stations, tunnels, wwtp's, and existing pipelines.
10. New construction case study: Rohnert Park, California – East Side Trunk Sewer Phase I. Construction consisted of approximately 1 mile of 42" HDPE lined RCP, 37 custom manholes, and junction structures.
11. Rehabilitation case study: Stockton, California – Stockton East Water District. Rehabilitation included studlining of 66" and 79" diameter cast in place pipe for a raw water transmission system pipe.

Handouts: A CD was provided that includes the presentation and other product information.

Thank you Lewis for an informative presentation!

General:

November 17, 2009 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.

Holiday Dinner: The PUG Holiday Awards Dinner will be held at El Morocco in Pleasant Hill on Friday, January 8, 2010. PUG is sponsoring one person per membership for free. Each additional person will cost \$38. RSVP to Cara Ingebrigtsen at cingebrigsten@brwncald.com.

DDSD Sliplining Tour: The DDSD sliplining will be rescheduled to a later date. An email will be sent out to the PUG email list once a new date has been confirmed.

Field Trip: PUG is scheduling to have a field trip in May 2010 at the manufacturing facilities of Gladding McBean in Lincoln, California. Buses will be provided to transport members to and from the facility. Jonathan Lee will coordinate with Patrick Symons of Gladding McBean. More information will be provided once the field trip is confirmed.

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:

- Lunch & Learn: Introduction to Pipe Bursting and Ramming – **January 7, 2010**
- Webinar: HDD Applications – **February 4, 2010**
- Event: Alternative Trenchless Methods – **March 4, 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:

NASTT No-Dig Show: The 2010 NASTT No-Dig Show will be held in Chicago, Illinois during May 2 through 7, 2010. Visit <http://www.nodigshow.com/> for more information.

PUG Sharing Technologies Seminar 2010: The 18th Annual Sharing Technologies Seminar is scheduled for **Thursday, February 18, 2010**. Abstracts have been received and selected by the PUG Board. Letters have been sent out to all abstract submitters and a keynote speaker has been selected. More information will be forthcoming.

Colorado School of Mines: Colorado School of Mines is offering a Microtunneling Short Course during February 9 through 12, 2010. Visit <http://www.microtunneling.com/> for more information.

McElroy University: McElroy University is offering training classes on small diameter fusion machines, mid-range fusion machines, large diameter fusion machines, and tracstar machines. Visit <http://www.mcelroy.com/fusion/training/index.htm> for more information.

Trenchless International: Trenchless International has the following news:

- No-Dig Moscow will be held June 1 – 4, 2010
- No-Dig Singapore will host the 28th Annual International No-Dig Conference and Exhibition over November 8 – 10, 2010.
- International Trenchless Directory is now available, see <http://www.trenchlessinternational.com> for more information.
- Nu Flow has partnered exclusively with Flow Liner.

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

- Utility Management Conference 2010 in San Francisco – **February 21 – 24, 2010**
- 2010 AWWA / WEF Information Management & Technology Conference in Portland – **March 21-24, 2010**
- Collection Systems 2010 in Phoenix – June 13 – 16, 2010

Projects Discussions: Kurt Vincelette of R&B Company discussed a project in the City of Petaluma that involved the horizontal directional drilling of DR 18 fusible PVC pipe. The new pipeline provides water to an elementary school. The horizontal directional drilling installation method saved the City approximately \$290,000 as compared to open cut.

Marisa Boyce and Jack Huntamer of EBMUD discussed a pipe bursting pilot project. The pilot will review the bursting of three water mains that are approximately 3' deep. It will be a same size pipe burst of cast iron pipe with fusible PVC. Another pipe bursting project will involve a same size bursting of cast iron and steel pipes with fusible HDPE.

Ken Cook of WCWD noted that bursting with the same size pipe diameter is ideal to ensure a safe installation. The larger the pipe burst, the more problems that can occur during installation.

Next Meeting: The next general meeting will be held **Tuesday, January 19, 2010** at the office of Brown & Caldwell located at 201 N. Civic Dr., Suite 300, Walnut Creek, CA. The topic will be on **Large Diameter Pipeline Inspections** by Jeff Graham of Hydromax, Inc. Please call Roberts McMullin at 510-874-3102 or email rob_mcmullin@urscorp.com to RSVP or ask for additional information on this month's meeting minutes.