



## MEETING MINUTES

March 14, 2017

### Attendees:

Alex Stroup	Contra Costa Water District	astroup@ccwater.com
Amanda Schmidt	Central San	ASchmidt@centralsan.org
Bob Allen		robertleeallen6@outlook.com
Brian Danley	Anchor Engineering	Bdanley@anchorm.com
Colin Dudley	Brown & Caldwell	cdudley@brwncald.com
Dillon Miele	SASD	mieled@sacsewer.com
Don Wible	Nor-Cal Pipeline	don@norcalpipe.com
Jacquie Jaques	Sekisui-SPR	Jacquie.Jaques@sekisui-spr.com
James Kohne	RMC	jkohne@rmcwater.com
Jeff Coffman	Sanexen Water, Inc.	jcoffman@sanexen.com
Jimmy Dang	Oro Loma Sanitary District	jdang@oroloma.org
Jonathon Marshall	Carollo Engineers	JPMarshall@carollo.com
Larry Gielenfeldt	Forterra Pipe & Precast	Larry.Gielenfeldt@forterrabp.com
Matt Wassam		matt.wassam@gmail.com
Nancy McWilliams	West Yost Associates	nmcwilliams@westyost.com
Nancy Molina	Central San	nmolina@centralsan.org
Nona Espinosa	NV5	nona.espinosa@nv5.com
Ron Papa	Carollo	Rpapa@carollo.com
Sandie Dudley	HydroScience Engineers	sdudley@hydroscience.com
Thomas Grau	Mott McDonald	thomas.grau@hatchmott.com
Vern Phillips	Harris & Associates	vphillips@harris-assoc.com

**Presentation:** “Everything You Need to Identify, Bid, and Build a Structural Water Main Rehabilitation Project this Year” by Matt Wassam.

### ***Highlights from the presentations include:***

This presentation highlighted two lining methods for water pipelines: cured-in-place pipe (CIPP) and compressive fitting HDPE (CFPE).

When considering lining as an option for rehabilitation the design engineer should ask the following questions to the manufacturer:

- Is the product 3<sup>rd</sup> party verified?
- What is the procedure for repairs or installing appurtenances (down the road)?
- What is the long-term performance of the product?

Lining can be more cost effective than open cut when insertion pits are located more than 300 feet apart for CIPP and more than 800 feet apart for CFPE. Matt described the two lining methods in more detail along with some case studies.

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### Compressive Fitting HDPE

- Ideal for pipe diameters 4"-48" (need to know exact size)
- 2,000-3,500-foot pulls
- Large access pits (1 foot pit length per inch diameter of pipe; 18-inch diameter pipe = 18-foot long pit)
- Pipe is compressed so that it can be pulled inside existing pipe, once pipe relaxes to original size it is compressed within the host pipe.

### Cured-in-Place Pipe

- Ideal for pipe diameters 6"-12"
- 300-500-foot runs
- Each service connection is plugged to prevent resin from going up the service

Thank you Matt for the outstanding presentation! We appreciate your help with PUG.

### General:

**December 16, 2016 Meeting Minutes:** Highlights from the December meeting were read.

### Announcements:

**2016/2017 Membership:** The 2016/2017 membership renewal forms are available and located on the PUG website: [www.norcalpug.com](http://www.norcalpug.com). Memberships cost is \$350 per entity. 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. Payment options include Paypal or check.

**PUG Annual Sharing Technologies Seminar:** Thank you for making the Annual Seminar a success. Approximately 150 people attended. The Board is taking the feedback on the presentation topics and venue under consideration for next year's event.

**Financial Updates:** The current total in the organization account is \$49,530.26.

**NASTT 2017 No-Dig Show/Conference:** Washington, D.C., April 9-13, 2017.

**Grouting 2017:** Honolulu, Hawaii, July 9-12, 2017. Learn about the latest tools, materials and techniques for grouting, deep mixing, and diaphragm walls.

**ASCE Pipeline 2017 Conference:** Phoenix, AZ August 6-9.

**North American Oil & Gas Webinar:** March 22, 2017. "How to Accelerate Pipeline Projects and Reduce Costs with Mobile Apps"

**Rapid Excavations and Tunneling Conference:** San Diego, CA June 4-7, 2017. Sponsored by the Society of Mining, Metallurgy & Exploration.

**Tunneling Fundamentals, Practice, and Innovations Annual Short Course:** Golden CO, September 18-21, 2017. Short course that provides comprehensive overview of tunnel planning design and construction across all applications and geologies.

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**Public-Private Partnership (P3) Water Summit:** San Diego, CA, May 4-5, 2017. The P3 Water Summit examines how partnerships work. Providing seminars, workshops, case studies, networking, and the data needed to determine the right model for your system projects.

**Water Innovation 2017 - Transforming Ideas into Practice:** San Francisco, CA, March 15-16, 2017. A WEF Members Only Event. Spend two days with water leaders talking about putting innovation into practice.

**Corrosion Conference and Expo:** New Orleans, LA, March 26-30, 2017. This comprehensive conference is packed with technical knowledge exchange plus opportunities to connect with industry experts and peers focused on the prevention and mitigation of corrosion worldwide.

**ASCE California Infrastructure Symposium:** Los Angeles, CA, March 31, 2017

**Raffles:** No raffle was held at this meeting. Remember, raffles can happen at any meeting but you have to be in attendance to win a prize.

### **Project Discussions:**

Brian Danley with Anchor CM described a recent construction project and looked for feedback from the group. The pavement settled about 12 inches deep over a recently constructed 60-inch storm drain in Orinda. CLSM was placed over the top of the pipe and native material was backfilled and compacted to 95% to the pavement. No one in the group had experienced this before.

Vern Phillips with Harris and Associates asked the group if they have seen CIPP liners designed for a particular thickness, and in the field the liner was installed at a thinner thickness. One member commented that it has happened before, but the liner still met strength requirements.

Jeff Coffman with Sanexen Water informed the group that EBMUD is lining asbestos cement pipe in Lafayette this May. He offered to host a construction site visit for PUG members. He will send the information to the PUG board for distribution to the membership.

Jimmy Dang with Oro Loma Sanitary District described a "State of the District" presentation to OLSD's Board. The presentation highlighted that the engineering department isn't renovating sewer lines as fast as lines are being added; in essence they are not bringing down the backlog of sewers to replace. Their Board approved an increase in budget for renovation projects to \$4M with the goal to eliminate the backlog in 10 years.

### **Next Meeting:**

The next general meeting is scheduled for Tuesday, April 11, 2017. The presentation topic is "Trenchless Pipeline Point Repair Techniques, by Vern Phillips, Harris and Associates. Please call Amanda Schmidt at 925-229-7363 or email [aschmidt@centralsan.org](mailto:aschmidt@centralsan.org) for additional information on this month's meeting minutes.