



## MEETING MINUTES

May 12, 2014

### Attendees:

|                    |                        |                                |
|--------------------|------------------------|--------------------------------|
| Andrew Hawksworth  | Carollo                | ahawksworth@carollo.com        |
| Anne Prudhel       | Carollo                | APrudhel@carollo.com           |
| Augustus Cicala    | EBMUD                  | acicala@ebmud.com              |
| Bill Chavez        | SRCS                   | chavezb@Sacsewer.com           |
| Bob Allen          | CDMSmith               | allenrob@cdmsmith.com          |
| Brian Avon         | Golder Associates      | brian_avon@Golder.com          |
| Danny Yang         | Whitley Burchett       | dyang@whitleyburchett.com      |
| Don Wible          | Nor-Cal Pipeline       | don@norcalpipe.com             |
| Eniko Gaeto        | ADS Pipe               | eniko.gaeto@ads-pipe.com       |
| Huy Nguyen         | City of San Carlos     | hnguyen@cityofsancarlos.org    |
| Justin Peterson    | NV5                    | justin.peterson@nv5.com        |
| Justin Waples      | CCCSD                  | jwaples@centralsan.org         |
| Kevin Smith        | EBMUD                  | smithk@ebmud.com               |
| Kristine Gali      | EBMUD                  | kgali@ebmud.com                |
| Mark Wenslawslg    | CCCSD                  | mwenslawslg@centralsan.org     |
| Michael Dumitrache | Northwest Pipe Company | mdumitrache@nwpipe.com         |
| Michael Hartlaub   | EBMUD                  | mhartlau@embud.com             |
| Michael Penny      | CCCSD                  | mpenny@centralsan.org          |
| Mike Johannessen   | V&A                    | mjohannessen@vaengineering.com |
| Noy Phannavong     | V&A                    | nphannavong@vaengineering.com  |
| Rob McMullin       | EBMUD                  | rmcmulli@ebmud.com             |
| Ron Bassoni        | Ameron                 | Ronald.bassonie@nov.com        |
| Sasha Mestetsky    | CCCSD                  | SMESTETS@centralsan.org        |
| Thomas Vedder      | P&F Distributors       | tom@pfdistributors.com         |

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\*\*\*The information disseminated on behalf of industry individuals/organizations via PUG is not necessarily the opinion of PUG, nor has PUG verified comprehensiveness or validity of the information.\*\*\*

**Presentation:** Managing pH in Large Diameter Cement Mortar Lined Pipelines with Infrequent Use by Michael Hartlaub, P.E. and Ali Sheikholeslami, P.E. of EBMUD. Presented by Michael Hartlaub.

**Highlights from the presentations include:**

Mr. Chavez presented on the NASTT No-Dig Conference. The presentation included a paper of the following:

1. "Creative Approach to Removing PCB Contaminated Grit and Rehabilitating New Bedford's Main Interceptor" originally given by Shawn Syde and Kevin Schott, CDM Smith Inc., Providence, Rhode Island.

Mr. Michael Hartlaub presented Managing pH in Large Diameter Cement Mortar Lined Pipelines with Infrequent Use which included the following:

1. EBMUD Service Area
  - a. Serves 1.3 M people in SF East Bay Area
  - b. 7 reservoirs
  - c. 5 WTPs
  - d. 136 PPs
  - e. 167 distribution reservoirs
  - f. 4,000 miles of pipe.
2. Folsom South Canal Connection Pipeline (FSCC)
  - a. Joint project with SCWA, connects EBMUD with 100 MGD of drought supply from Sacramento River.
  - b. 19 miles of 72-inch pipe w/ ½" mortar cement lining, completed in 2011.
  - c. Anticipated usage 2-3 yrs/10 yrs
3. Summary
  - a. Pre-Treatment
    - i. EBMUD was seeing pH levels spike to almost 12 after water sat in the pipe during years of nonuse.
    - ii. Discharging higher than 8.5 constitutes a NPDES violation.
  - b. Treatment
    - i. Adding Carbon Dioxide and Strong Acid were studied as alternatives.
    - ii. Even though Strong Acid was a much cheaper option (\$400k) EBMUD decided to use Carbon Dioxide (\$2M) because of the good pH Control.
    - iii. Two treatment sites were selected. Bixler Facility near Brentwood for primary control and Walnut Creek Raw Water Pumping Plant for Backup Control.
  - c. Startup Results
    - i. Decreased pH from 11-12 to 6.5
    - ii. Controlled to 0.1 pH units
    - iii. Diffusers quickly dissolved CO<sub>2</sub> gas
    - iv. Started FSCC April 2, 2014
    - v. High pH slug arrived at Bixler
      1. April 4 at 9 a.m.
      2. 15 mgd per each aqueduct
      3. No Violations

**Handouts:** None.

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Thank you Michael and Bill for the outstanding presentations! We appreciate your help with PUG.

**General:**

***April 8, 2014 Meeting Minutes:*** A motion was made to approve the minutes, which was seconded.

**Announcements:**

***PUG 2014 Training:*** A Survey Monkey invitation has been sent out to all members to vote for the upcoming PUG training. The survey will be closing tomorrow 5/13.

***Local Catholic Protection Event:*** Gram Bell from (HDR) will be a speaker at a local NACE meeting on 5/13.

***2013/2014 Membership:*** The 2013/2014 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.

***Financial Updates:*** The current total in the organization account is \$35,211.73.

***PUG Board Elections in June:*** Forms for nominations are due by May 30. Ballots will be in June. Each Board member serves a 2 year term from July 1<sup>st</sup> to June 30<sup>th</sup>.

***APWA In the Works:*** Weekly updates can be found at [www.apwa.net](http://www.apwa.net).

***ASCE Pipelines 2014 Conference:*** Conference will be held in Portland, Oregon on August 3-6, 2014. Registration is now open. <http://content.asce.org/conferences/pipelines2014/>.

***LinkedIn:*** LinkedIn has active discussions related to the pipeline industry. Check out Trenchless Technologies on LinkedIn.

***NASTT's WESTT Chapter Western Regional No-Dig Show:*** Conference will be held on October 6-7, 2014 in Albuquerque, New Mexico. For more information please go to <http://www.nastt.org/node/9729>.

***NASTT Webinars:*** NASTT hosts complimentary webinar series to bring you professional instruction from leading experts in the field of trenchless technology. They can be found at [www.nastt.org/webinars](http://www.nastt.org/webinars)

1. None.

***TT Magazine: 2013 Pipe relining Guide:*** is available at <http://www.trenchlessonline.com/>.

***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](http://www.uimonline.com/index/webinars).

1. None.

***Underground Construction Magazine:*** is available at [www.ucononline.com](http://www.ucononline.com).

***Water Environment Federation:***

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1. WEF is offering a distance learning webcast (\$155 for members and \$195 for non-members) on Perspectives on Pipeline Renewal. Visit [www.wef.org](http://www.wef.org) for more information.

**WEFTEC 2014:** Registration opens on March 31, 2014. Conference will be held on September 27 – October 1, 2014 at the New Orleans Morial Convention Center in New Orleans, LA.

**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:**

**Roberts McMullin** of EBMUD spoke about a current construction project. EBMUD is installing 2 miles of 24" water replacement in Oakland. He is trying to setup a future field visit for the PUG members. The project is replacing the old pipe with new thicker steel pipe and installing new connections. The project is currently 25% complete.

**Kristine Gali** of EBMUD spoke about a project where AC Transit is having EBMUD relocated 14+ pipelines to make room for new bus stops. Most of the pipelines are located near or on busy streets as you would expect for bus stops. The project is fast tracked and should be completed by early August.

**Next Meeting:**

The next general meeting is scheduled for Tuesday, June 10, 2014. The presentation topic is on "Pipe Assessment Inspection Advancements" by Edward Diggs of Cues, Inc. Please call Jimmy Dang at 510-481-6981 or email [jdang@oroloma.org](mailto:jdang@oroloma.org) for additional information on this month's meeting minutes.