



MEETING MINUTES
December 8, 2015

Attendees:

Adam Brown	West Yost Associates	abrown@westyost.com
Alfonzo Velazquez	City of Sacramento	avelazquez@cityofsacramento.org
Ann McGlibery	CCCSD	AMcGlibery@centralsan.org
Barbara Kolodziejski	EBMUD	bkolodzi@ebmud.com
Bijan Khamanian	Hobas Pipe USA	bkhamanian@hobaspipe.com
Bill Chavez	SRCSO	chavezb@Sacsewer.com
Bob Allen	CDM Smith	allenrob@cdmsmith.com
Brian Danley	Anchor Engineering	bdanley@anchorcm.com
Brian Swift	SAK Construction	Bswift@sakon.com
Brian Watanabe	HDR One Company	brian.watanabe@hdrinc.com
Calvin Yee	City of Sacramento	cyee@cityofsacramento.org
Calvin Zehnder	Kennedy/Jenks	calvinzehnder@kennedyjenks.com
Dan Duffy	HydroScience Engineers	dduffy567@gmail.com
Daniel Morales	EBMUD	
David Pezzini	West Yost Associates	dpezzini@westyost.com
Dolly Chen	HDR One Company	Dolly.Chen@hdrinc.com
Don Wible	Nor-Cal Pipeline	don@norcalpipe.com
Erik Zalkin	Brown and Caldwell	ezalkin@brwncald.com
Gaurav Bagga	Ideate	gaurav.bagga@ideateinc.com
Hoda Alinasab	HydroScience Engineers	halinasab@hydroscience.com
Joey Tomko	Ideate	joey.tomko@ideateinc.com
Jill Sylvester	NV5	Jill.Sylvester@nv5.com
Jose Lopez	EBMUD	jlopez@ebmud.com
Kevin Castillo	Kennedy/Jenks	kevincastillo@kennedyjenks.com
Kevin Kai	Brown and Caldwell	kkai@brwncald.com
Kevin Siu	SacCounty Water Resources	Siuk@saccounty.net
Lennard Bravo	Sacramento County DWR	bravole@saccounty.net
Lisa Zou	CCCSD	lzou@centralsan.org
Manolo Ramirez	Sacramento County DWR	ramirezman@saccounty.net
Michael Heaton	Black & Veatch	HeatonMI@bv.com
Mike Dumitreche	Northwest Pipe	mdumitreche@nwpipe.com
Mohammad Ghoury	Union Sanitary District	mohammadg@unionsanitary.ca.gov
Mohammad Wali	CCCSD	
Nancy McWilliams	West Yost Associates	nmcwilliams@westyost.com
Nick Lazarakis	Kennedy/Jenks	nicklazarakis@kennedyjenks.com
Paul Harrington	R&B Fusion	pharrington@rbcompany.com
Phillip Linarte	Erler & Kalinowski, Inc.	PLinarte@ekiconsult.com
Raul Ruiz	EBMUD	rruiz@ebmud.com
Robert Latimer	ADS	Robert.Latimer@ADS-pipe.com
Roberts McMullin	EBMUD	rmcmulli@ebmud.com
Roger Chu	HydroScience Engineers	RChu@HydroScience.com

Minutes by: Bob Allen, CDM Smith
Acting Secretary, Nor Cal PUG

Page 1 of 5

Ron Jordan
Russell Tripp

City of Sacramento
California Precast Concrete
Pipe Association

RJordan@cityofsacramento.org
russell@concrete-pipe.org

Ryan Wade
Ryker Brown
Tara Sweet
Thomas Vedder

ADS Pipe
RMC Water and Environment
EBMUD
P&F Distributors

ryan.wade@ads-pipe.com
rbrown@rmcwater.com
tsweet@ebmud.com
tom@pfdistributors.com

Presentation: “Overview of Civil 3D with a Focus on Pipe Networks” by Gaurav Bagga, Ideate.

Highlights from the presentations include:

Gaurav Bagga and Joey Tomko presented a summary of Ideate’s expertise and gave a brief overview of Civil 3D. Ideate services include: an industry experienced technical team with Autodesk authorized training centers; live, web-based training for on-demand courses; support, for individual answers when you need them and long-term consulting. Ideate sales include: professional Autodesk account management; experienced channel partners to help navigate the Autodesk waters; and Autodesk Development Network to provide software solutions. Ideate resources include: Ideatesoftware.com; Ideateinc.com; blog discussion on ideatesolutions.blogspot.com; youtube.com/user/IdeateInc; and Twitter: @ideateinc @ideatesoftware.

Civil 3D is a Civil Engineering Design software that runs on top of a drafting engine of AutoCAD and supports Building Information Modeling. The core functionality of Civil includes: survey, grading, roadway, and piping. Civil 3D has a wide variety of toolsets for grading and robust pressure and gravity pipe layout tools with the ability to perform design and depth checks, plan and profile capability, utility interference capability, and pipe crossing identification.

Gaurav developed an example project to demonstrate the features of Civil 3D BIM by downloading a figure from a recent EBMUD project in Orinda called the Happy Valley Pipeline. While you can build an existing topo from a survey point file in Civil 3D, Gaurav used a software called InfraWorks, which is an infrastructure modeling, project planning, feasibility study and presentation software from Autodesk, to build existing conditions for this Orinda pipeline project. The existing topo and street alignments were directly imported into Civil 3D and the background imagery was obtained live within Civil 3D using a command “Geomap” which gets the data from Bing Maps. Within no time the plan and profile for Miner Street was created and a pressure pipe network representing the old pipe replacement was created in plan and projected to profile. Civil 3D’s pipe layout tools have the capability to add the pipes, bends, elbows, tees and appurtenances and account for allowable “deflection”, vertical and horizontal changes in alignment. The Civil 3D “interference check” feature works for storm drains and gravity lines but not for water pipelines or pressure pipelines. Civil 3D allows 360 degree 3D changes in alignment and depth. Gaurav then created a typical cross section with the trench assembly and created a “corridor” which then helps calculate the earthwork involved. Additional resources can be downloaded from Ideate.com or Ideate BIM Link. “Parts list” is a feature which allows you to load pipe size and material.

Gaurav then opened the presentation to questions from the group. Q. Are flanges on tees symbolic or real? A. Symbolic. Q. What range of valves are available? A. Only a few valve types (styles) come shipped with Civil 3D but there is full capability to create new valves or other appurtenance not available by default. This is done in “Parts list”. Q. Is there a way to automatically label the pipe description on the profile? A. Need a template that includes the label style you want to use. Q. Can you add bends in the profile? A. Yes. Need to create a profile view style with no vertical exaggeration. It actually shows the fittings.

Minutes by: Bob Allen, CDM Smith
Acting Secretary, Nor Cal PUG

Page 2 of 5

Civil 3D allows you to create an alignment, profile, and corridor right along the centerline of the pipe.

Xreferencing in Civil 3D is the same as AutoCAD. Need to use data short-cuts to create cross references for Civil 3D objects. Q. Is there an automated way to create plan and profile quickly? A. No but there is a plan production tool. It will still require attention on your part.

The plan production tool creates match lines and cuts sheets. Civil 3D does both gravity pipelines and pressure pipelines. However, you need to ask: How important is the feature you want to model? Do not over-model the design.

Q. How do I show individual valves? Valves seem to cluster. A. You will need specific help. Feel free to call.

Handouts: PDF of the presentation.

Thank you Gaurav and Joey for the outstanding presentation! We appreciate your help with PUG.

General:

November 10, 2015 Meeting Minutes: The meeting minutes were read and approved without comment.

Bob Allen gave a recap of the Large Diameter Pipeline Forum Pre-Conference Workshop from the ASCE 2015 Pipelines Conference.

Roberts McMullin noted several recent articles in various publications and on-line sources:

“Crane barge in place for Tideway works” discussed deployment of a crane barge for construction of a pier in the River Thames which is being heralded as the start of work on the 4billion pound Thames Tideway ‘super sewer’ project.

The October 2015 issue of Trenchless Technology had an article about the Arlington National Cemetery Water Main Replacement Program.

The October 2015 issue of Utility Contractor had an article entitled “Poised for Pipe Work – Allegheny Contracting Finds Its Niche with the Right Equipment” which discussed the Allegheny Contracting company history and plans for the future.

The October-December 2015 issue of Advance in Water Research had an article entitled “Implementing New Strategies to Withstand Drought” which discussed a five-step cost-benefit analysis for evaluating drought management practices, methods for maintaining financial resiliency during droughts, and the need for communication during the drought.

The Conference Preview of the upcoming NASTT 2016 No-Dig Show highlighted the program for the March 20-24, 2016 conference at the Gaylord Texan Convention Center in Dallas, Texas.

The November 2015 issue of Consulting-Specifying Engineer had an article entitled “Six ways to develop high-performance teams – functional engineering teams must be built on a solid base” which recommended six tools to help accelerate team performance: 1) begin with some personality profiling; 2) consider communication styles; 3) be diligent about performance reviews and documenting development needs; 4) face conflict and disruption head-on; 5)

Minutes by: Bob Allen, CDM Smith
Acting Secretary, Nor Cal PUG

Page 3 of 5

understand your own emotional intelligence; and 6) recognize team members' performance and celebrate successes.

Announcements:

2015/2016 Membership: The 2015/2016 membership renewal forms are available and located on the PUG website: 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 \$44,124.38.

ASCE Continuing Education: ASCE has offered complete access to their on-demand webinars. For more information, you can go to www.asce.org/on-demand-subscription.

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. The website offers access to several archived NASTT webinars including: Manhole Rehabilitation; Pipe Ramming; Build Your Trenchless Toolbox; Carbon Calculator; CIPP; Condition Assessment for Watermains; Pipe Bursting, HDD, and CIPP for the Gas Industry; Sliplining Sewer Laterals; Trenchless Rehabilitation Parts 1 and 2; and Trenchless New Installation Parts 1 and 2.

NASTT National No-Dig in Dallas, Texas March 20-26, 2016. Watch for details for the Municipal and Public Utility scholarships.

PUG 2016 Sharing Technologies Seminar call for papers. The 2016 Sharing Technologies Seminar will be held on February 18, 2016 at Hs Lordships in Berkeley, CA. The key note speaker will be Debbie Franco – the State of California Local Government Drought Liaison. Seven papers were selected for presentation. More information about the seminar will be provided in a flyer very soon...

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:

Barbara Kolodziejski with EBMUD asked: who owns inactive utility pipelines? Roberts McMullin responded that this is generally the agency who owns the right of way. Someone else responded that some cities have taken abandoned ducts and inserted fiberoptic cable. Roberts noted that EBMUD often fills their abandoned pipelines with flowable grout. This makes future sliplining impossible so locations of grout fill have to be carefully documented for future use.

Tom Vedder noted that HDPE prices are at an 8 year low. They seem to be gradually increasing. The price of oil is low but the markup of resin manufacturers and the cost of ethylene gas adds to the HDPE cost.

Minutes by: Bob Allen, CDM Smith
Acting Secretary, Nor Cal PUG

Page 4 of 5

Next Meeting:

The next general meeting is scheduled for Tuesday, January 12, 2016. The presentation topic is “Odor Control Challenges in Combined Sewer Collection System with Manhole Inserts” by Guo Ji Chiu with San Francisco Public Utilities Commission, Wastewater Enterprise and John Paoluccio with Inventive Resources Inc. Please call Bob Allen at 925-296-8038 or email allenrob@cdmsmith.com for additional information on this month’s meeting minutes.

Minutes by: Bob Allen, CDM Smith
Acting Secretary, Nor Cal PUG

Page 5 of 5

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.