

MEETING MINUTES

Oct 14, 2025

In-Person Meeting

ATTENDEES: See Attachment 1 for copy of attendee list

Announcements and General Business:

Dustin opened the meeting and provided the following announcements.

1. Participant introductions
2. Reminded the group about signing up for monthly presentations.
 - a. Membership is \$400 per organization, and you can send as many people as you want to monthly meetings. Membership also provides a link to your firm on our website and reduced fees for our annual training in the fall and our annual seminar in February.
3. Call for PUG Presentations
 - a. If you'd like to present, we are scheduling for March 2026.
4. PUG Annual seminar abstract submissions are currently due/open!
5. Upcoming conference dates:
 - a. Western Chapter No-Dig Conference 2025 - Scottsdale, AZ - October 14-16, 2025
 - b. NASTT No-Dig North 2025 - Vancouver, BC, October 27-29, 2025
 - c. Practical Considerations for Pipeline Design and Construction (PUG hosted) - Central San Offices - November 13, 2025
 - d. Pacific Water Conference (AWWA HWEA) - Honolulu, HI - February 10-12, 2026
 - e. PUG Annual Sharing Technologies Seminar - Concord, CA - February 19, 2025
 - f. No Dig Conference - Palm Springs, March 29 - April 2 (Municipal Scholarship deadline - 11/1)
 - g. CWEA Annual Conference - Sacramento, CA - April 7-10, 2025
 - h. AWWA ACE - June 21-24, Washington DC
 - i. ASCE Pipelines - August 1-5, 2025 - Detroit Mi
6. Dustin provided a recap of August's monthly presentation (Pressure vs Gravity Rehab).
7. Financial summary report provided by Adam.

Attendee Announcements and Project Discussions:

- Bob Allen: 1,000 LF, 30" pipe, Cutting Blvd, (didn't catch the dollar value), won by Bay Pacific Pipelines, Hi bid \$5M
- Sliplining 400 LF of 10" AC pipe, leaking in a wetland, sliplined with 6" HDPE (was concerned 8" wouldn't fit), DR 17, 4 months from start to return to service

Minutes by Adam Brown, Woodard & Curran
Finance Chair, Nor Cal PUG

Page 1 of 4

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Presentation:

“HOBAS FRP Pipe”, by Mike Bussio (HOBAS Pipe).

Overview:

HOBAS FRP Pipe offers solutions in applications across the water and wastewater industry. The discussion will focus on HOBAS’s capabilities in pressure pipe, specifically for water applications, and cover the broad history and use of FRP in wastewater, jacking pipe and slip lining, and other unique applications utilizing corrosion resistant and sustainable FRP pipe

Highlights from the presentation include:

1. Main focus for presentation is pressure pipe
2. HOBAS largely known for large diameter gravity pipe
3. More than a manufacturer
 - a. They do their own engineering
 - b. They have field services
 - c. Sales
 - d. Support from “cradle to grave”
4. 20 million LF installed since 1987
5. Adding 1 million LF every 18 months
6. Investing a lot of capital into pressure pipe development/manufacturing
7. Overall
 - a. 12” to 126”
 - b. Pressure classes go up to 450 psi
 - c. Provided an overall matrix comparing gravity, pressure, jacking, sliplining, and non-circular pipe
 - d. Has been installed up to 65 feet deep
8. Provided list of AWWA/ASTM/ISO standards that govern the pipe
9. Benefits of HOBAS
 - a. Corrosion resistance
 - b. 150-yr “plus” design life
 - c. Engineering product
 - d. Lightweight
 - e. High stiffness
 - f. Constant OD
 - g. Fast assembly, easy to field-cut
 - h. No need to cathodic protection
10. Big Local Clients
 - a. SFPUC
 - b. Modesto
 - c. Sacramento
 - d. EBMUD
11. City of Phoenix Pressure Pipe – North Gateway Force Main
 - a. 27,000 LF 24” 110 PSI twin force main
 - b. Onsite verified pressure test to 150 psi

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Page 2 of 4

- c. FRP looked fine after 20 years
- 12. Provided graphics for overview of different embedment conditions
- 13. Metro Water Recovery/HDR/Garney
 - a. Brought HOBAS staff out for field service support, including preconstruction training
- 14. High Street Outfall & 40th Street – City and County of Denver/UPRR
 - a. Jacking 96” pipe under rail crossings
- 15. Can do carrier pipes inside a steel casing
- 16. Sliplining
 - a. Mannings = 0.009
 - b. Elastomeric gasket to push joints together
- 17. Oshkosh, Wisconsin – 1998
 - a. First HOBAS slipline project
 - b. Pushed 3,000 LF from one pit
- 18. Provided a list of the materials used in making the pipe
- 19. Showed videos of how the pipe is made
- 20. Pressure pipe is different because it is a spiral wound pipe
- 21. AWWA C950 standard for pressure pipe
 - a. Defines production, pressure class, long-term and short-term test requirements
- 22. Key-Lock Restrained Joint
 - a. New to HOBAS
 - b. Uses splines to lock the joint (similar to Certa-Lok)
 - c. System can be designed as fully or partially restrained
- 23. Can produce FRP flanges for connections to valves/appurtenances
- 24. Pipe can be direct-tapped similar to other materials
- 25. Is ISO 9001 certified (related to quality control)
- 26. Can produce elbows, tees, wyes, reducers
- 27. Can perform field laminations at joints to exceed 250 psi joint pressure
- 28. PVC will stick to FRP using FRP resin which makes it more compatible with PVC connections than other pipes
- 29. Can get 3-deg deflection with FWC non-restrained coupling
- 30. Can use stainless steel repair bands
- 31. Showed a field lamination video
- 32. Holds up really well against UV degradation; application in Newfoundland has been exposed to direct sunlight for decades with little issues.
- 33. Questions and Answers
 - a. Are there different colors? No.
 - b. What’s the smallest size? 12”
 - c. How does cost compare to CIPP? It depends on numerous factors
 - d. How does cost compare to DIP/PVC? Usually cost competitive at 30” and above
 - e. What does it mean to have an engineered solution? HOBAS will consider your alignment, geotech, pressures, etc. to help you come up with the best solution for your project.

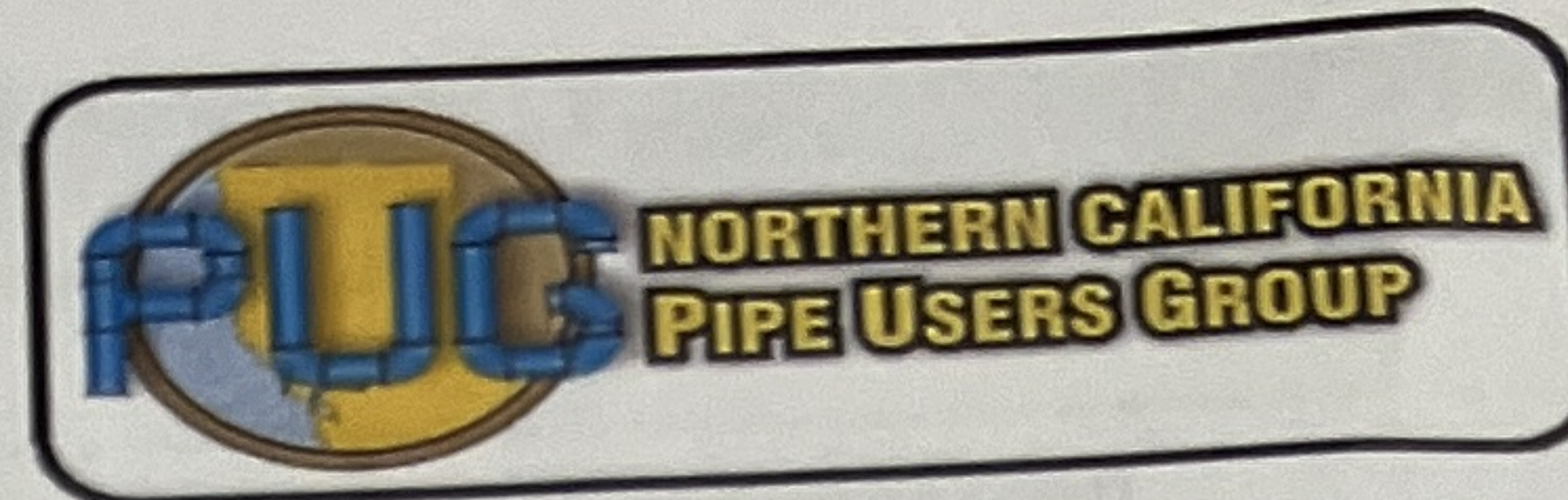
- f. Is the pipe as resistant to UV on the inside of the pipe as well as the outside? Yes.

Next Meeting:

The November event will not be a regular monthly meeting. Instead, PUG will be hosting our 2nd annual **Practical Considerations for Pipeline Design and Construction training**, Thursday November 13th from 8 am to 5 pm, at Central Contra Costa Sanitary District's Training Room, 5019 Imhoff Place, Martinez, CA 94553. The training is a single-day seminar and will cover several aspects of pipeline design and construction, from data collection, installation methods, standards and specifications, to project management, inspection and contract administration. The training will be followed by a social/networking event at Headlands Brewing in Walnut Creek.

Please email pugnorcal@gmail.com for additional information.

SIGN IN SHEET
MEETING DATE: Oct 14, 2025



Attendees:

No	Name	Agency/Company	Email Address	Present?
1	Adam Brown	BKF	abrown@bkf.com	
2	Ajmal Shams	HDR, Inc.	ajmalkhan.shams@hdrinc.com	✓
3	Amelia Berumen	Central San	aberumen@centralsan.org	✓
4	Andrew Towles	Alameda County Water District	andrew.towles@acwd.com	AMZ
5	Ben Wright	Black & Veatch	wrightb@bv.com	✓
6	Bezad Basiri	Thompson Pipe Group	bbasiri@thompsonpipegroup.com	
7	Bob Allen	VW Housen and Associates	robertleeallen6@outlook.com	✓
8	Carina Fonseca	Brown and Caldwell	cfonseca@brwncald.com	✓
9	Celia Kitchell	EBMUD	celia.kitchell@ebmud.com	
10	Chris Peters	Brown and Caldwell	cpeters@brwncald.com	
11	Diego Soto Lopez	Central San	dsotolopez@centralsan.org	
12	Dorothy	Central San	dbechler@centralsan.org	
13	Eli Baterina	Harris & Associates	eli.baterina@weareharris.com	✓
14	Emile Morales	DeBolt Civil Engineering	emile@deboltcivil.com	
15	Eric Yao	HDR	Yuan.Yao@hdrinc.com	✓
16	Fidel Salamanca	Harris & Associates	Fidel.salamanca@weareharris.com	✓
17	Hunter Kett	Solano Irrigation District	hkett@sidwater.org	
18	James Kong	Central Contra Costa Sanitary District	jkong@centralsan.org	✓
19	Joe Barnes	CCWD	jbarnes@ccwater.com	✓
20	Joe Heavin <i>Kat Spier</i>	Shannon & Wilson	joseph.heavin@shanwil.com	
21	Joshua Viray	Carollo Engineers	jviray@carollo.com	✓
22	Katie Leisenring	HDR inc.	Katherine.leisenring@hdrinc.com	✓
23	Kevin Kai	BC	kkai@brwncald.com	
24	Kevin Kaveh	City of Hayward	kevin.kaveh@hayward-ca.gov	✓
25	Kevin Randeni	Central San	krandeni@centralsan.org	✓
26	Lisa Zou	Centralsan	lzou@centralsan.org	✓

No	Name	Agency/Company	Email Address	Present?
27	Mais Sagradyan	Thompson Pipe Group	mais.sagradyan@thompsonpipegroup.com	✓
28	Matthew Escalante	EBMUD	matthew.escalante@ebmud.com	
29	Nancy Tran	City of Hayward	nancy.tran@hayward-ca.gov	✓
30	Rosie Delgado	Central San	rdelgado@centralsan.org	✓
31	Samantha Daigle	Jacobs	samantha.daigle@jacobs.com	✓
32	Sanaz Ghalambor	Thompson Pipe Group	sanaz.ghalambor@thompsonpipegroup.com	
33	Shantae Broussard-Marquez	Central Contra Costa Sanitary District	sbmarquez@centralsan.org	✓
34	Stephanie Myers	Central San	smyers@centralsan.org	✓
35	Steven	City of Hayward	steven.wolfe@hayward-ca.gov	✓
36	Tien Ho	ACWD	tien.ho@acwd.com	✓
37	Weili Lu Du	Central Contra Costa Sanitary District	wdu@centralsan.org	✓

