

MEETING MINUTES

Jan 14, 2025

In-Person Meeting

ATTENDEES: See Attachment 1 for copy of attendee list

Announcements and General Business:

Dustin opened the meeting and conducted the group's business.

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 presenters beginning May 2025
4. Upcoming conference dates:
 - a. NASTT No-Dig 2025 - Denver CO, March 25-April 3, 2025
 - b. AWWA ACE 2025 - Denver CO, June 8-11, 2025
 - c. USEI (ASCE) PIPELINES 2025 - Tampa, Florida, August 9-13, 2025
5. PUG 2025 Annual Seminar (February 13, 2025 Concord, CA) - Abstracts have been selected. Registration is live!
6. James Kohne provided a recap of the December meeting minutes.
7. Adam Brown provided the financial summary report. Last month's balance was \$86,318.03. With \$18,281.19 of income and \$1,609.94 in expenses, the current monthly balance is \$102,989.28.

Attendee Announcements and Project Discussions:

- Bid opening for an EBMUD job tomorrow (1/15). 2,500 LF of 66" CIPP in Emeryville. 7-9 million engineers estimate.
- Nancy spoke about the issue of Benzene leaching into PVC pipe following major fires. There is a debate between industry/manufacturer leaders. Asked the group if anyone had researched this? EBMUD has grappled with this question. They currently use PVC and Ductile Iron. CIPP industry has been consulted following major fires. Resin manufactures have looked into it, without resolution. Cement mortar lining industry is starting to do associated testing.

Presentation:

"Best Practices for Bidding CIPP & Spot Repairs", by Bill Bonney (NorCal Pipeline Services).

Minutes by James Kohne, Woodard & Curran
Secretary, Nor Cal PUG

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Overview:

The presentation will provide an in-depth overview of the best practices for accurately and competitively bidding Cured-In-Place Pipe (CIPP) and spot repair projects. It will review key strategies for evaluating project specifications, assessing site conditions, and identifying potential risks and challenges. The presentation will also cover cost estimation techniques, material selection, and scheduling considerations to ensure successful project execution.

Highlights from the presentation include:

1. Introduction and overview slide
 - a. Defined CIPP (Cured In Place Pipe). Fully structural rehab method. Will have a focus on WW and storm pipelines, not potable water/pressure pipe, but those exist. Most best-practices relate to bidding either type.
 - b. Reviewed curing methods. Water, air/steam, and UV. About 90% in CA is air/steam. Water is mostly for large diameter. Drawbacks include styrene release in water/air cures.
2. Resins and Materials.
 - a. UV liners have a fiberglass layer, which allows for a thinner liner.
 - b. Styrene vs styrene free. His experience is that the styrene monitoring he has had to use over the last few years, no styrene trigger has ever been
 - c. Polyester is the standard. Vinyl esters are a little more corrosion resistant (food processing units). Epoxy in env sensitive areas. Vinyl esters and epoxy resins are 2-4 times more expensive.
3. Spot repairs.
 - a. Small sections loaded on a bladder and sent to damaged location. Ambient of UV light cure. Usually 4' length. A 10' repair would just use overlapping pieces. His company also does cosmic UV top hats, but doesn't do laterals. They try to avoid top hats on 6" lines
 - b. Shared photos (see presentation)
 - c. Usually won't grout/smooth the two ends.
 - d. Goes up to 48" in diameter. They limit themselves to 6" min diameter.
 - e. Bunch/bid them in group.
4. Project Planning
 - a. Locations, access, traffic control, bypass, pre-CCTV (within a year ideally), lateral counts.
 - b. Need to pre-grout any big I/I. As far as grade, 30% grade is about the limit.
 - c. They don't usually need a profile, unless there are steep grades.
 - d. What to show on plans:
 - i. Full scope, access points, easements, TC requirements, permits, flow data, possible diversion routes, lateral locations (active vs abandoned), pipe materials (PVC/HDPE are different than Clay/Concrete), profiles (if steep).
 - e. If you're going to require the contractor to confirm if a lateral is active, they need to send up a camera ahead of time to confirm. Need to account for in price/schedule.
5. Provided photos of UV rigs (all in one rig). Biggest they do is 64". More photos of steam and water cures.
6. Bid schedule preparation.

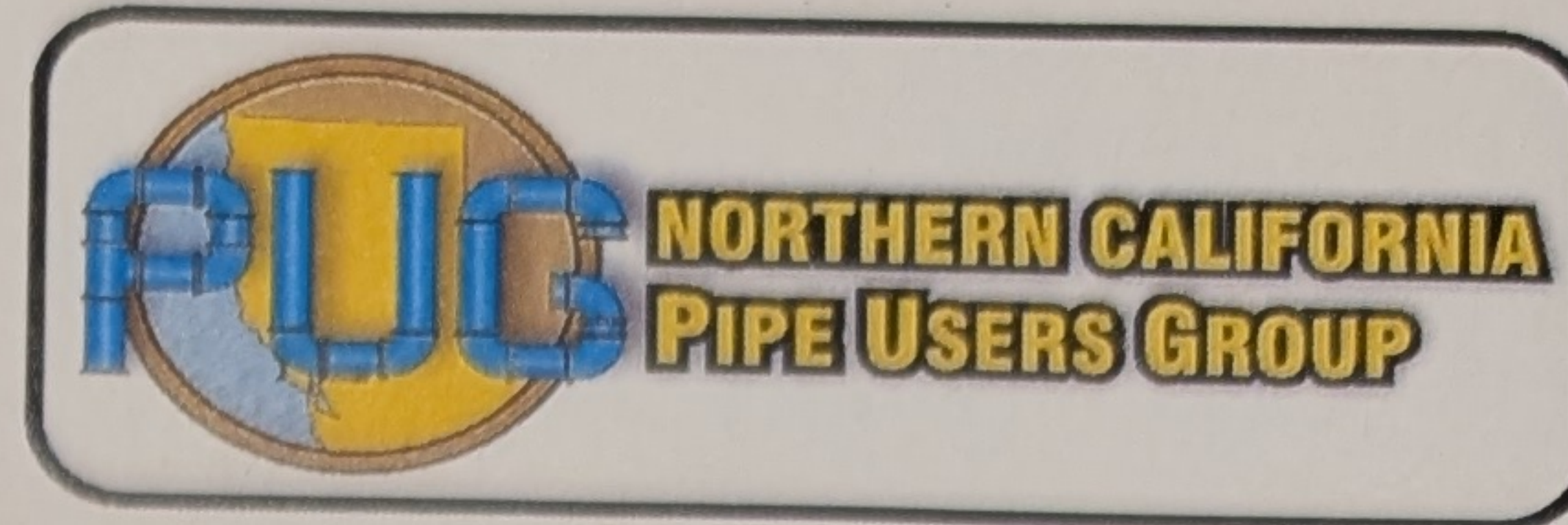
- a. Unit price bid items
- b. Specific defined scope (minimize revocable, or optional items). Utilize a force account.
- c. Bid Items
 - i. *Mob*
 - ii. *Demob and clean up*
 - iii. *TC (as needed)*
 - iv. *Bypass (as needed)*
 - v. *Cleaning*
 - vi. *Pre- and Post Lining videos*
 - vii. *Trimming of laterals (as needed)*
 - viii. *Install CIPP liner*
 - ix. *Robotic reconnection of service laterals*
 - x. You can break out items based on size (bypass for < or > 42" lines)
- d. Use clear spec language
 - i. Define roles and responsibilities, authority of inspectors
 - ii. Change order procedures
 - iii. Liquidated damages
- e. Tech Specs
 - i. Design requirements (min thickness or design parameters)
 - ii. Avoid cut and paste from old specs
 - iii. Specify proposed installation techniques
 - iv. Identify testing/sampling requirements (F1216). Avoid core sampling.
- f. Pre-bid meetings
 - i. Schedule well in advance
 - ii. Invite potential bidders
 - iii. Do site walks
 - iv. Highlight key contract terms
- g. Managing bidders questions and requests
 - i. Can be on an online shared board.
 - ii. Send communications to all bidders and have questions in writing.
- h. Qualification of bidders
 - i. Require submission of experience records *and verify*.
 - ii. Ask the 3 low bidders instead of all to reduce unnecessary work for bidders.
- i. Leverage tech in the bidding process
 - i. Provide videos
 - ii. Use digital management platforms
- j. Adapting to Market Changes
 - i. Monitor new trends, update CIPP specs for new technologies, adjust pricing over years, listen to contractors
- k. Continuous Improvement Strategies
 - i. Conduct post-project evaluations
 - ii. Update standard operating procedures
 - iii. Implement lessons learned reviews

- iv. Engage with industry groups
- v. Promote innovation in bidding practices
- I. Questions
 - i. They've done 650' of 10" UV cure
 - ii. They can pull in up a 33" UV cure without removing the cove
 - iii. They have 1 unit that can CCTV inspect pressure pipe. They don't do potable water, or pressures above 20psi.
 - iv.

Next Meeting:

There is no general monthly meeting in February. Instead, PUG will be hosting our annual Sharing Technologies Seminar on Thursday, February 13th, 2025, at the Concord Hilton hotel.

Please call James Kohne at 925-627-4173 or email pugnorcal@gmail.com for additional information on this month's meeting minutes.

SIGN IN SHEET**MEETING DATE: Jan 14, 2025****Attendees:**

No	Name	Agency/Company	Email Address	Present?
1	Aaron Johnson	Dublin San Ramon Services District	johnson@dsrsd.com	✓
2	Adam Brown	Hazen and Sawyer	abrown@hazenandsawyer.com	
3	Adam Mansour	EBMUD		✓
4	Alan	Alameda County Water District	alan.velasquez@acwd.com	✓
5	Amelia Berumen	Central San	aberumen@centralsan.org	✓
6	Amelia Taylor	Pullman SST, Inc.	ataylor@pullman-services.com	✓
7	Ashruf Khan	West Yost	akhan@westyost.com	✓
8	Ben Wright	Black & Veatch	wrightb@bv.com	✓
9	Bernard Corrales	City of West Sacramento	bernardc@cityofwestsacramento.org	✓
10	Casey Smith	SAK Construction, LLC	csmith@sakcon.com	
11	David Ng	City of Oakland	dng@oaklandca.gov	✓
12	Diego Soto Lopez	Central San	dsotolopez@centralsan.org	✓
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14	Dustin La Vallee	EBMUD	dustin.lavallee@ebmud.com	✓
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19	Ibrahim Shaheed	Central Contra Costa Sanitary District	ishaheed@centralsan.org	✓
20	James Kohne	Woodard & Curran	jkohne@woodardcurran.com	✓
21	James Kong	Central Contra Costa Sanitary District	jkong@centralsan.org	✓
22	Jason Fitch	CCCSD	jfitch@centralsan.org	✓
23	John Law	EBMUD		✓
24	John-Carlo Guevara	San Jose Water Company	john-carlo.guevara@sjwater.com	✓

No	Name	Agency/Company	Email Address	Present?
25	Jordan Loyd	Central San	jloyd@centralsan.org	✓
26	Kelvin Munar	City of San Jose Public Works	kelvin.munar@sanjoseca.gov	
27	Kevin Randeni	Central San	krandeni@centralsan.org	✓
28	Kurt Chirbas	Geotree Solutions	KURT.CHIRBAS@HENKEL.COM	✓
29	Leo Gudina	Repcor	scott@repcor1.com	✓
30	Lisa Zou	CCCSD	lzou@centralsan.org	✓
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32	Mike Garcia	NOV WEFS Fiberglass Solutions	mike.garcia@nov.com	
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42	Ryan Kaufmann	City of San Jose	ryan.kaufmann@sanjoseca.gov	✓
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46	Steven Wolfe	City of Hayward	steven.wolfe@hayward-ca.gov	✓
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50	Tony de Bellis	Rain for Rent	tdebellis@rainforrent.com	✓
51	Trini Inouye	City of San Jose	trini.inouye@sanjoseca.gov	✓
52	Wenyuan Tang	AECOM	wenyuan.tang@aecom.com	✓
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No	Name	Agency/Company	Email Address	Present?
54	Zabi Ibrahimkhel	Central Contra Costa Sanitary District (Central San)	zibrahimkhel@centralsan.org	✓

Alexandra Watson PUG Vice Chair ✓

Taylor Lithgow Kennedy Jenks Taylorlithgow@kennedyjenks.com ✓

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