

SPECIAL ENGINEERING COMMITTEE MEETING AGENDA

February 15, 2022
Phelan Community Center
4128 Warbler Road, Phelan, CA 92371
& Via Conference Call (see below)

THIS MEETING WILL BE CONDUCTED PURSUANT TO THE PROVISIONS OF AB361, WHICH EFFECTIVE OCTOBER 1, 2021, MODIFIED CERTAIN REQUIREMENTS OF THE RALPH M. BROWN ACT WITH RESPECT TO REMOTE TELECONFERENCE BOARD MEETINGS DURING PERIODS OF STATE-DECLARED EMERGENCIES.

The Phelan Piñon Hills Community Services District is continuing to hold Board meetings to conduct essential District business. Pursuant to AB361, members of the Board may attend the meeting via teleconference or video conference and will participate in the meeting to the same extent as if they were present. Members of the public may watch and participate electronically in the meetings via Zoom or telephone conference. Guidelines from the County of San Bernardino allow for in-person attendance.

REMOTE PARTICIPATION INFORMATION:

Dial-in

(720) 707-2699
Meeting ID: 811 4602 0265
Passcode: 638827

Zoom

<https://us06web.zoom.us/j/81146020265?pwd=SXVoaHp6SHVDaExSRVZKaGZBO1J3Zz09>
Meeting ID: 811 4602 0265
Passcode: 638827

One-Tap Mobile

+17207072699,,81146020265#

Remote Comment Procedure:

- You will be muted until you are called on during the public comment period.
- You will be recognized by the last 4 digits of your phone number or Zoom ID and asked if you have a comment.
 - If you do not have a comment, state "no comment."
 - If you do have a comment, please state your name, where you live, and limit your comment to 5 minutes. After 5 minutes you may be muted so that others can comment.
- You may also email your public comment to the Board Secretary at kward@pphcsd.org by 4:00 p.m. on February 15, 2022. Your comment will be read into the record by the Board Secretary.

Please check the District website for updates on this meeting. We encourage you to sign up for our email notifications by emailing kward@pphcsd.org or by visiting our website and completing the signup form at www.pphcsd.org under the "Agendas and Minutes" tab.



Mission Statement:

The Mission of the Phelan Piñon Hills Community Services District is to efficiently provide authorized services and maximize resources for the benefit of the community.

Authorized Services:

- *Water*
- *Parks & Recreation*
- *Street Lighting*
- *Solid Waste & Recycling*

ENGINEERING COMMITTEE MEETING – 4:00 P.M.

Call to Order – Pledge of Allegiance

Roll Call1) **Approval of Agenda**

2) **Public Comment** – Under this item, any member of the public wishing to directly address the Board on any item of interest that may or may not be within the subject matter jurisdiction of the Board, but not listed on the agenda, may do so at this time. However, the Board is prohibited by law from taking any action on any item not appearing on the agenda unless the action is otherwise authorized by the Brown Act. Any member of the public wishing to directly address the Board on any item listed on the agenda may do so when the item is being considered by the Board. *If you wish to address the Board, please do so by the method listed on the first page of this agenda.* Speakers are requested to be brief in their remarks. The Chair may limit each speaker to a comment period of five (5) minutes.

3) **Approval of Minutes**4) **Smart Meter Presentation**5) **Oeste Recharge Study Project**6) **Discussion Regarding Water System**

- Pumps and Wells Services Agreement
- 10-Year Tank Rehabilitation & Maintenance Service
- Water Quality
- Service Line Replacement Program Update
- Other Repairs/Replacements/Updates/Maintenance

7) **Smithson Springs Update**8) **State Regulations Update**9) **Review of Current Projects**

- Pressure Zone 6
- New Well No. 15

10) **Staff Reports**11) **Review of Action Items**

- a) **Prior Meeting**
- b) **Current Meeting**

12) **Set Agenda for Next Meeting** – March 9, 202213) **Adjournment**

Pursuant to Government Code Section 54954.2(a), any request for a disability-related modification or accommodation, including auxiliary aids or services, that is sought in order to participate in the above-agendized public meeting should be directed to the District's General Manager at (760) 868-1212 at least 24 hours prior to said meeting.

Agenda materials can be viewed online at <http://www.pphcsd.org>

ENGINEERING COMMITTEE MEETING MINUTES

January 27, 2022 – 4:00 p.m.
Phelan Community Center
4128 Warbler Road, Phelan, CA 92371
& Remotely Via Zoom or Conference Call

Board Members Present: Mark Roberts, Director (Chair)
Kathy Hoffman, Director

Board Members Absent: None

Staff Present: Don Bartz, General Manager
George Cardenas, Engineering Manager
Sean Wright, Water Operations Manager
Jennifer Oakes, Executive Management Analyst
Aimee Williams, Administrative Technician II

Guests/Public: None

Call to Order

Director Roberts called the meeting to order at 4:00 p.m.

Roll Call

All Committee Members were present at Roll Call.

- 1) **Approval of Agenda**
Director Roberts moved to approve the Agenda. Director Hoffman seconded the motion. Motion passed unanimously.
- 2) **Public Comment** – None
- 3) **Approval of Minutes**
Director Hoffman moved to approve the Minutes. Director Roberts seconded the motion. Motion passed unanimously.
- 4) **Review of 10-Year Capital Plan for the 2022/2023 Budget**
The Committee reviewed the Capital Plan and no changes were requested.
- 5) **Review of Committee Roles & Responsibilities**
The Roles & Responsibilities were reviewed and there were no changes.
- 6) **Oeste Recharge Study Project**

Mr. Wright reported that MWA is still moving forward with the percolation project off of Cayucos Rd., west of Oasis Rd. They are currently in the process of drilling a monitoring well.

7) **Discussion Regarding Water System**

- **Presentation: Well 14, Mescalero, Well 2, and Well 10 Water Line Break and Smithson Springs Cleanup**
- **Pumps and Wells Services Agreement**
- **10-Year Tank Rehabilitation & Maintenance Service**
- **Water Quality**
- **Service Line Replacement Program Update**
- **Other Repairs/Replacements/Updates/Maintenance**

Mr. Wright provided an update on main breaks over the last month. Smithson Springs was cleaned up in December. Air-vac maintenance program has resumed. Water meter replacement program is in the second phase and approximately 35% of the District has been switched over to Sensus AMI meters. Mr. Wright discussed reasons to implement the remaining phases of the Sensus meter replacement program in the next fiscal year instead of the original timeline.

8) **Smithson Springs Update**

Cleanup was completed in December; pictures were provided in the packet.

9) **State Regulations Update**

Ms. Oakes reported that Governor Newsom enacted emergency drought conditions for the entire state that will be in effect until at least January 2023.

10) **Review of Current Projects**

- **Pressure Zone 6**

Mr. Cardenas noted that field testing will move forward when field staff has availability.

- **New Well No. 15**

Mr. Cardenas reported that the CEQA report should be ready for review in the next week. The San Manuel Band of Mission Indians have been notified and no response has been received at this time. The well should be online towards the end of summer.

11) **Staff Reports**

A report was provided in the packet.

12) **Review of Action Items**

- a) **Prior Meeting** – None
- b) **Current Meeting** – None

13) **Set Agenda for Next Meeting** – February 2022

- Remove Item 4 and Item 5
- Discussion Re: Early Implementation of Remaining Meter Replacement Program

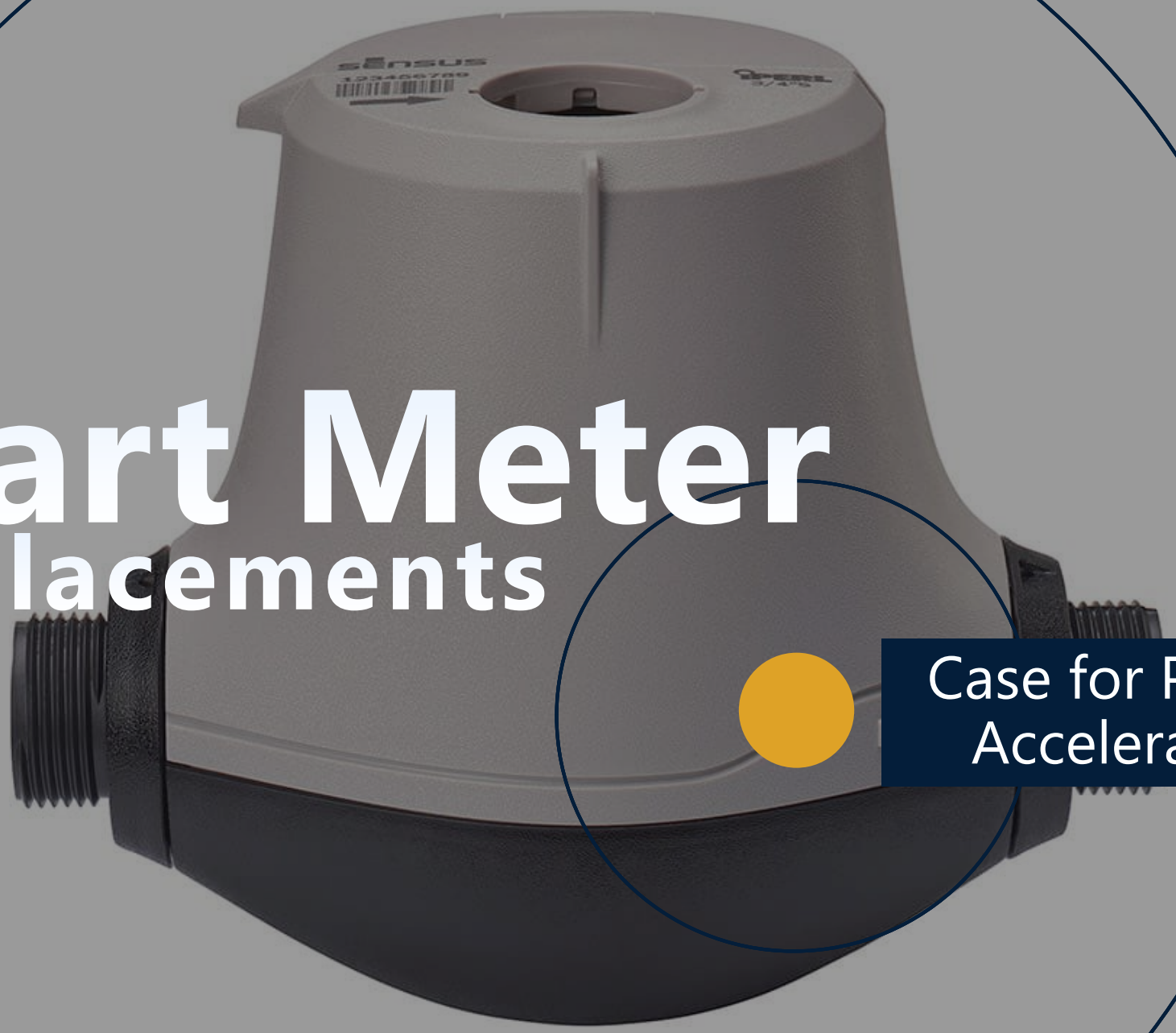
14) **Adjournment**

With no further business before the Committee, the meeting adjourned at 4:50 p.m.

Agenda materials can be viewed online at <https://www.pphcsd.org>



Smart Meter Replacements



Case for Project
Acceleration

Project Progress

Original Project Timeline

Integration and Customer Portal Launch 2020/2021

Original Meter Replacement Schedule

- Phase 1 (Cycles 4 & 6) – 2020/2021
Approx. 714 meters
- Phase 2 (Cycle 2) – 2020/2021/2022
Approx. 1,586 meters
- Phase 3 (Cycle 3) – 2022/2023
Approx. 1,617 meters
- Phase 4 (Cycle 5) – 2023/2024
Approx. 1,782 meters
- Phase 5 (Cycle 7) – 2024/2025
Approx. 1,202 meters

Actual Meter Replacement Stats

Meters are replaced/set as old meters fail and for new installations in addition to those replaced as part of the meter replacement program.

Phase 1 Cycles 4 & 6 <u>2020/2021</u>	Phase 2 Cycle 2 <u>2020/2021/2022</u>	Phase 3 Cycle 3 <u>2022/2023</u>	Phase 4 Cycle 5 <u>2023/2024</u>	Phase 5 Cycle 7 <u>2024/2025</u>
720 meters replaced of 737*	974 meters replaced of 1,640	505 meters replaced of 1,750	225 meters replaced of 1,832	138 meters replaced of 1,223

Total Meters Replaced To Date = 2,562

Projected Replacements Total By End of FY 2022 = 3,328**

Original Target Number for End of FY 2022 = 2,300

*Unreplaced meters include large meters and UTL meters

**Based upon materials and resource availability

Benefits

The District is already seeing great benefits from the replacement program including:

- Reduction in meter leaks
- Reduction in field staff time reading, data logging, and low/no flows
- Reduction in office staff time processing meter change-outs
- Reduced water loss
- Real time leak detection
- Customer portal and notifications

- ***No manufacturing defects or potential problems have surfaced with the 2,562 meters installed***
- ***Potential increase in material and labor installation costs as inflation continues to increase at record rates***

Water Loss Reduction

- Reduced water loss from meter leaks
- Reduced billed water loss
- Helps implementation of 55 gallons per person per day per SB 606 and AB 1668

Staff Time Savings

- Greatly reduced staff time meter reading
- Reduced staff time replacing meters
- Reduced staff time on data logs, meter accuracy issues, and other investigations

Better Customer Service

- Customer portal access to all customers for real time usage and estimated bills
- Customer leak notifications for all customers



Water Operations Manager's Report January 2022

Introduction

The Phelan Piñon Hills Community Services District (District) maintains a large water distribution system that includes over three hundred & forty miles of water lines. The following are District statistics and information related to the operations of this distribution system and the quality of the water supplied to District customers.

Summary

The District's water distribution system is in compliance with the State Water Resources Control Board- Division of Drinking Water, The Environmental Protection Agency, Safe Drinking Water Act, Cal OSHA, and all other governing agencies.

Current chlorine demand has remained low and steady due to routine maintenance and flushing. Chlorine demand is found by subtracting the chlorine residual from the total chlorine added to the water system. A low chlorine demand indicates water free or nearly free of pathogenic microorganisms.

Water Quality Samples

The following is a summary of all water quality samples collected this month and any pertinent information related to said samples.

TEST TYPE	NO. OF COLLECTIONS THIS MONTH	TESTING SCHEDULE	NOTES
Raw water and Bac-t samples	46 samples	Monthly	All in compliance, Sampled Weekly
General physical samples	6 samples	Monthly	All in compliance, Sampled Weekly
TTHM/HAA5	4 samples sets	Quarterly	All in compliance.
UCMR 4	0 sample sets	TBD	All in Compliance.
Inorganics	0 samples	Yearly	All in compliance.
Radiological (Gross Alpha)	0 samples	Every 3 Years	All in compliance.
Trichloropropane 1,2,3-TCP	0 samples	Quarterly	All in compliance.
Regulated SOC	0 samples	As needed	All in compliance.
Nitrate as N	1 samples	As needed	All in Compliance.
Chromium 6	0 samples	Quarterly	All in Compliance.
Secondary GP'S	0 samples	As needed	All in Compliance.
Uranium	0 samples	As needed	All in Compliance

Production and Service Order Report

The following is a summary of the District's water production and service orders for the current month.

Total Monthly Production	169.58 A. F. 2 % more than 2013
2013 Monthly Production	166.56 A. F.
USA's Marked	168
Service Orders Completed	588 service orders completed
Main/Service Line Leaks	22 service line leaks repaired. 2 Main line leak/ breaks repaired
Hydrant Repairs/Replacements	0 hydrant repaired/0 replaced
Residential Meters Sold	6
Commerical Meters Sold	0
YTD Total Meters Sold (Calendar)	6 (95 in 2021)
Construction Meters Out	6
Service Lines Replaced	23

Job Code Summary

Job Code	Total Completed
C-Lock - Lock	165
C-Read & Unlock-Open - Read & Unlock - Opening	14
C-Read & Unloc-OC-DM - Read & Unlock - Opening-OC-DM	100
D-Closing Read & Lck - Closing Read & Lock DO NOT USE	4
D-Closing Read-OC-DM - Closing Read & Lock-OC-DM DO NOT USE	0
M- Investigate Lock - Verfiy Meter Still Locked	38
M- Verify Acct Class - Verify Account Class	0
M- Water Audit - Audit Water Usage	5
M-Backflow - Backflow Information	0
M-Cost Estimate Req - Cost Estimate Request	1
M-Data - Data Log	2
M-Bees- Bees	0
M-Investigate Leak - Investigate Leak	0
M-Investigate No Wtr - Investigate No Water	0
M-Lock No N/O Info - Meter Locked No New Owner Info	33
M-Low/No Consumption - Investigate Low/No Consumption	12
M-Meter Leaking - Meter Leaking	0
M-Meter UTL - Buried - Meter UTL - Buried	0
M-Pressure Ck Hi-Low - Pressure Check Hi-Low	2
M-R/R Angle Stop - Repair/ Replace Angle Stop	9
M-R/R Gate Valve - Repair/ Replace Gate Valve	6
M-Read - Read (do not update Read)	9
M-Repair Svc Line - Repair Service Line	22
M-Repair/Install Box - Meter Box	2
M-Replace Serv Line - Replace Service Line	23

M-Stake Meter Loc - Stake Meter Location	1
M-Status - Status	6
M-Turn off-Cust Req - Turn off - Customer Request	5
M-UNLOCK – UNLOCK	15
M-Verify Leak Repair - Verify Leak Repaired	6
M-Water Loss Leak - Door Hanger Water Loss Leak	1
M-Water Quality Tast - Water Quality - Taste	0
S- Replace Register - Register Not Sending Signal	111
S- Meter Downsize - Meter Downsizing	2
Service Change - Service Status Change	0
S-Replace Mtr & Reg - Replace Entire Meter Max Life Usage	0
S-Replace Reg Hotrod - Replace Register Hotrod Died	0
S-Replace Register - Replace Register Mueller	0
S-Replace Mtr- Replace Entire Meter Bottom Seal Leaking	5
Grand Totals	588

Summary of Current Projects

The following is a brief summary of all current and completed projects for the reported period

- Customer Portal for Smart Meters successfully deployed August 9th
- Well Soundings at all wells are being done monthly
- Smithson Springs last cleaned December 2021- Current flows 3 GPM Upper Weir, 3 GPM Lower Weir
- Well 14 Production for December 0.109 AF, YTD 119.50 AF
- Valves and Hydrants Maintenance: 0 hydrants flushed and painted YTD Total-0
- Service line replacement program on target to meet current established goals. 23 Replaced 23 Calendar Year To Date (82 in 2021), 56 Replaced Fiscal Year To Date
- Air-Vac maintenance & flushing program-3 Flushed & Maintanenced YTD-68 of 336 Total Project 20% Complete
- Cla-Val automatic controls valves being systematically rebuilt as a water conservation measure- 7 CompleteYTD Water savings from this project is 9.5 GPM and counting @ 5MG
- Water Meter Replacement Project- 2554 of 7050 Replaced – 36.2 % Complete
- Connection of PZ 5E to PZ 4E 6” intertie at Site 3C- 100% Complete

Projects Completed

- Installation and Operation of Community Water Fill Station- 100 % Complete
- Connection of PZ 4E to PZ 3E 6” intertie at Site 2C- 100% Complete
- Well 9A Equipping and Outfitting for permanent production utilization- 100 % Complete
- Annual Reservoir interior cleaning and inspection- 100 % Complete
- Sanitary survey with CASWRCB DDW Engineer of District Facilities, All defeciencies corrected- 100 % Complete
- Well Meter and inter-tie Meter annual accuracy program FY 20/21- 100 % Complete
- Electrical Effeciency test performed @ every booster and well within the District- 100% Complete
- Oil Changes and greasing at all district wells 100% Complete Boosters 100 % Complete
- 2 Valves Turned this month as part of district Valve Exercising Program, 924 Year To Date Turned of 4291
- 222 Dead ends flushed of 317 = every year no matter what < No goal, this is mandatory
- 1936 hydrants = 0 flushed this Year To Date 0 Painted Goal is 968 annually, this is done Bi Annual
- Tank washouts of 1B-2,1B-1,3B,3C,1C-1 Complete

Full Scale Sensus Implementation

The following are reasons I believe full scale implementation of the Sensus metering solution this coming fiscal year would benefit the District,

- Reduce Water Loss rate
- Potentially increase revenue with greater metered accuracy
- Reduce staff time replacing meters
- Eliminate staff time reading meters
- Reduce office staff time processing meter change-outs
- Eliminate field data logs
- Full scale customer portal access to all customers
- SB 1668 full scale implementation of 55 gallons per capita in 2023, District would be ahead of the curve
- Utilizing reading towers to capacity
- Eliminating field staff time spent on low/no flows, meter accuracy issues, and certain investigations would be able to be done from the office
- Potential increase in material and labor installation costs as inflation continues to increase at record rates, things are typically cheaper now rather than later
- No manufacturing defects or potential problems have surfaced with the 2300+ meters already deployed