

## **SPECIAL ENGINEERING COMMITTEE MEETING AGENDA**

May 23, 2023 – 4:30 P.M.  
Phelan Community Center  
4128 Warbler Road, Phelan, CA 92371  
& Via Conference Call (see below)

### **SPECIAL ENGINEERING COMMITTEE MEETING – 4:30 P.M.**

**Call to Order** – Pledge of Allegiance

#### **Roll Call**

#### 1) **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) **Oeste Recharge Study Project**

#### 5) **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

#### 6) **Smithson Springs Update**

#### 7) **State Regulations Update**

#### 8) **Review of Current Projects**

- Pressure Zone 6
- New Well No. 15
- Well No. 17

#### 9) **Review of Capital Projects**

#### 10) **Staff Reports**

#### 11) **Review of Action Items**



#### **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

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

12) **Set Agenda for Next Meeting** – March 15, 2023

13) **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 [www.pphcsd.org](http://www.pphcsd.org)

**Remote Viewing:**

To watch the livestream (view only – nonparticipating), visit our YouTube channel:

[PPHCSD YouTube Channel Link](#)

**Remote Participation:**

To provide public comment, or otherwise participate remotely, select the meeting you wish to attend on the District's website and then click the "Join Remote Meeting" option.

<https://www.pphcsd.org/meetings>

*Please be advised that remote participation and livestreaming options are provided as a courtesy to the public and technical issues could occur, resulting in delays or the inability to participate remotely or livestream. It is recommended that you attend in person to ensure you are able to participate.*

**Written Comments:**

You may also email your public comment to the Board Secretary at [ksevy@pphcsd.org](mailto:ksevy@pphcsd.org) by the meeting start time listed on this agenda. Your comment will be added to 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 [ksevy@pphcsd.org](mailto:ksevy@pphcsd.org) or by visiting our website and completing the signup form at [www.pphcsd.org](http://www.pphcsd.org) under the "Agendas and Minutes" tab.*

## **ENGINEERING COMMITTEE MEETING MINUTES**

February 15, 2023 – 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

**Staff Present:** Don Bartz, General Manager  
George Cardenas, Engineering Manager  
Kim Sevy, HR & Solid Waste Manager/District Clerk  
Sean Wright, Water Operations Manager  
Chris Cummings, Water Operations Assistant Manager  
Tony De La Rosa, Engineering Technician

**Guests/Public:** Peter Barnes

### **Call to Order**

Director Roberts called the meeting to order at 4:01 p.m.

### **Roll Call**

All Committee Members were present at Roll Call.

#### 1) **Approval of Agenda**

Staff requested to discuss Item 4 when the consultant is available. Director Hoffman moved to approve the Agenda, as amended. Director Roberts 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) **Capacity Fee Study**

This item will be discussed at a future meeting.

#### 5) **Oeste Recharge Study Project**

Mr. Wright provided an update.

#### 6) **Discussion Regarding Water System**

- **Pumps and Wells Services Agreement**
- **10-Year Tank Rehabilitation & Maintenance Service**

- **Water Quality**
- **Service Line Replacement Program**
- **Other Repairs/Replacements/Updates/Maintenance**

Mr. Wright reported three new meters were set and 4 service lines were replaced in January. The fill station passed final electrical inspection and is being equipped in service. Future Well 16 will be located near the fill station. Interior coating will begin in April. Dead end flushing will begin soon. Efficiency testing on interties and well meters was conducting; they are reading accurately. Small tank next to Well 8 is not in service and needs painting. Meter replacements are moving forward with a promise of 324 meters per month. Concord will be installing the meters and they should be completed in 11 months.

A written report is in the agenda packet for this meeting.

7) **Smithson Springs Update**

The spring has been cleaned up and is flowing at a rate of 3.5gpm.

8) **State Regulations Update**

The Chromium-6 MCL is expected to be adopted in late 2023 or early 2024 with a 4-year implementation period.

9) **Review of Committee Roles & Responsibilities**

10) **Review of Current Projects**

- **Pressure Zone 6**

The hot tap will be completed within 2 weeks and under budget.

- **New Well No. 15**

Fencing is being installed. It is test pumping at 700-800gpm. There is no Chromium-6 in current testing. Discussion about zone sampling.

- **Well No. 17**

The chloring shed was delivered. Well should be online by summer.

11) **Staff Reports**

Nothing new to report; a written report is in the packet.

12) **Review of Action Items**

a) **Prior Meeting**

- Well 14 Construction Diagrams

b) **Current Meeting**

- Well 14 Construction Diagrams

13) **Set Agenda for Next Meeting** – March 15, 2023

- Remove Item 4 (if complete) & Item 9

14) **Adjournment**

With no further business before the Committee, the meeting adjourned at 4:31 p.m.

Agenda materials can be viewed online at [www.pphcsd.org](http://www.pphcsd.org)

Phelan Pinon Hills Community Services District

Enterprise Capital Improvement Projects

	Item No.	Location	Description	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029	2029/2030	2030/2031	2031/2032	2032-2042	Notes		
Chromium Mitigation Projects	1	Well 14 SP 1.1	Well Profiling <i>(Contingent on state ruling)</i>				\$450,000.00										
		Well 12 SP 1.1	Equip with Cr6 packer		\$150,000.00												
		Well 16 SP 1.1 / 1.4	Additional Water Supply				\$2,000,000.00										
		Well No. 15 - Azalea Road SP 1.1	Well, Equip, 12" pipeline 6K LF (\$2.4mil)	\$1,555,000.00													
		Storage Tank - Reservoir 6A (Prop. 1.5 MG) SP 1.1	Existing 6A (0.4 MG) <i>(Contingent on Fed. Funding \$2 milFed./\$1 mil District)</i>			\$2,700,000.00										Approps req. for \$1.75 m - Budgeted in 2025/2026 depending on approval	
		Reservoir 6A Other Cost SP 1.1	Design / Studies		\$100,000.00										Design for 6A Tank		
		Future Reservoir Site	Land Aquisition	\$50,000.00													
Sub-Total Cr6:				\$1,605,000.00	\$250,000.00	\$2,700,000.00	\$2,450,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			
Civic Center	2	Civic Center Project (APN 3066-261-10) (See Government Funds, Civic Center Project for add. Costs)	TRLS / David Evans Services														
			Off Site Development (estimate)														
			Professional Services	\$100,000.00													
			Lilburn CEQA / RLB Cost Estimate														
			Construction SP 1.7		\$8,000,000.00	\$500,000.00									Updated to reflect Steeno's 9-20-22 quote and additional contingency requirement		
Sub-Total Civic Center:				\$100,000.00	\$8,000,000.00	\$500,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			
Master Plan (Reservoirs)	3	Reservoir 7A (1.1 MG) SP 1.4	7A-1 (.079 MG) 7A-2 (.079 MG)					\$2,035,000.00									
		Other Cost SP 1.4	Design / Equipping / Studies					\$100,000.00									
		Reservoir L1 (0.35 MG) SP 1.4	L1 (.483 MG)					\$647,500.00									
		Other Cost SP 1.4	Design / Equipping / Studies					\$100,000.00									
Master Plan (Pipelines) 2022-2027	4	Sundown Road (Wilson Ranch/Roosevelt)	P1-1,900 LF (8") replace 6"			\$252,700.00											
		Phelan Road (Sheep Creek / Centola)	P3 -9,500 LF (12")						\$1,989,200.00								
		Pinon Hills Road (Nielson / Maria)	P13-1,300 LF (8")	\$157,300.00													
		Atsina Road (Mono / Solano)	P14-1,400 (8")				\$186,200.00										
		Fremontia Road (Glenview / Oasis)	P15-2,600 LF (8") replace 6"					\$314,600.00									
Master Plan (Pipelines) 2032-2042	5	Smoke Tree (Soledad / Highway)	P2-6,500 LF (12") replace 6"											\$1,358,500.00			
		Buckwheat / Phelan / Cholla / Minero	P4-14,750 LF (12") replace 6"-8"											\$3,082,750.00			
		Brawley Road (Eaby / Schlitz)	P5-1,400 LF (8") replace 6"											\$224,000.00			
		Phelan Road (Baldy Mesa / Shasta)	P6-9,300 LF (12") replace 6"											\$1,636,800.00			
		Highway 138 / Ponderosa / Pine Tree	P7-8,300 LF (12") replace 6"														
		Buckthorne Road (Highway 138)	P8-1,300 LF (12") replace 6"-8"														
		White Fox Trail (Minero / Pionero)	P9-1,300 LF (12") replace 6"														
		Acanthus Street (Bonaza / Palmdale)	P10-1,300 LF (12")														
		Pinero Road (Phelan Rd.)	P11-350 LF (12") replace 8"														
Mirage Road (Mango / Progress)	P12-2,500 LF (12")																
Sub-Total Master Plan CIP:				\$157,300.00	\$0.00	\$252,700.00	\$186,200.00	\$3,197,100.00	\$1,989,200.00	\$0.00	\$0.00	\$0.00	\$0.00	\$6,302,050.00			
Smithson Springs	6	Smithson Springs Canyon Tank and Pipeline	Construction (capture tank)				\$25,000.00										
Land	7	Future Expansion Sites (general)	Purchase			\$100,000.00											
Meters	8	Meter Replacement Program SP 1.5	Infrastructure														
			O & M	\$1,000,000.00	\$700,000.00												
Boosters	9	Booster Replacements	Infrastructure			\$135,000.00	\$135,000.00	\$135,000.00	\$135,000.00	\$135,000.00	\$135,000.00	\$135,000.00	\$135,000.00	\$135,000.00			
Reservoirs	10	Storage Tank - Tank at Well 2 Tank 3 (Prop. .5 MG) SP 1.1	Infrastructure					\$1,000,000.00									
Planning	11	Urban Water Management Plan	Report			\$25,000.00	\$15,000.00			\$25,000.00							
	12	Water Master Plan (update hydraulic model)	Report							\$88,000.00							
Sub-Total CIP (items 6-12):				\$1,000,000.00	\$700,000.00	\$260,000.00	\$175,000.00	\$1,135,000.00	\$135,000.00	\$248,000.00	\$135,000.00	\$135,000.00	\$135,000.00	\$135,000.00			
Sub-Total CIP (items 1-12):				\$2,862,300.00	\$8,950,000.00	\$3,712,700.00	\$2,811,200.00	\$4,332,100.00	\$2,124,200.00	\$248,000.00	\$135,000.00	\$135,000.00	\$135,000.00	\$6,437,050.00			

Phelan Pinon Hills Community Services District

Enterprise Capital Purchases

	No.	Item	Description											Notes		
				2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029	2029/2030	2030/2031	2031/2032		2032-2042	
Vehicles	13	Operations Vehicles / Equipment	Equipment													
			GM Vehicle (80% Enterprise)													
			Field Trucks	\$100,000.00	\$65,000.00	\$65,000.00	\$65,000.00	\$65,000.00	\$65,000.00	\$65,000.00	\$65,000.00	\$65,000.00	\$65,000.00	\$65,000.00		
Software & Hardware	14	Servers	Server						\$40,000.00					\$40,000.00	Updated from \$3,500 based on server and workstation upgrade recommendations	
Sub-Total (Capital Purchases):				\$100,000.00	\$65,000.00	\$65,000.00	\$65,000.00	\$65,000.00	\$105,000.00	\$65,000.00	\$65,000.00	\$65,000.00	\$65,000.00	\$40,000.00		
Total CIP and Capital Purchases:				\$2,962,300.00	\$9,015,000.00	\$3,777,700.00	\$2,876,200.00	\$4,397,100.00	\$2,229,200.00	\$313,000.00	\$200,000.00	\$200,000.00	\$200,000.00	\$6,477,050.00		

Phelan Pinon Hills Community Services District

Government Funds Capital Improvement Projects

	No.	Location	Description											Notes	
				2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029	2029/2030	2030/2031	2031/2032		
Phelan Park Exp.	1	Design/Engineering SP 2.1	Phase 3 & 4											Note: \$3.75 - \$1.5m from L &WC grant fund that will req. matching funds, if awarded, remainder to be funded by District - \$8.5 remain. balance of project	
		Construction SP 2.1			\$3,750,000.00	\$ 8,500,000.00									Note: \$457,194k from AARPA grant
		Construction SP 2.1			\$915,000.00										
Civic Center Bldg.	2	Government Portion of Phase I (See Enterprise Funds, Civic Center Project for add. Costs)	Design / Engineering (5%)												
			Site Dev./Improvements (30%)			\$2,800,000.00									
			Building Const. (5%) SP 2.3												
Com Cent./Gym	3	Community Center / Gymnasium SP 2.1	Design / Engineering												
			Buildout										\$4,300,000.00		
			Remaining Buildout												
Leg.	4		Ballot Measure	\$10,000.00		\$100,000.00									
Plans	5	Solid Waste Rate Study	Report			\$50,000.00									
Solid Waste & Rec.	6		Potential Capital Projects	\$35,000.00	\$35,000.00	\$40,000.00	\$40,000.00	\$45,000.00	\$45,000.00	\$45,000.00	\$45,000.00	\$45,000.00	\$45,000.00		
			<b>Sub-Total Projects:</b>	<b>\$45,000.00</b>	<b>\$4,700,000.00</b>	<b>\$11,490,000.00</b>	<b>\$40,000.00</b>	<b>\$45,000.00</b>	<b>\$45,000.00</b>	<b>\$45,000.00</b>	<b>\$45,000.00</b>	<b>\$45,000.00</b>	<b>\$45,000.00</b>	<b>\$45,000.00</b>	<b>\$4,345,000.00</b>

Government Funds Capital Purchase

	No.	Item	Description											Notes
				2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029	2029/2030	2030/2031	2031/2032	
Vehicles	7	Vehicles / Equipment	Equipment											
			GM Vehicle (20%)											
			Vehicle (Solid Waste)		\$65,000.00									
			Truck (Parks)			\$65,000.00								
<b>Sub-Total Purchases:</b>				<b>\$0.00</b>	<b>\$65,000.00</b>	<b>\$65,000.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>

Government Funds - Repair and Maintenance Plan

	No.	Item	Description											Notes
				2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029	2029/2030	2030/2031	2031/2032	
Parks and Recreation	8	Community Centers	Roof				\$60,000.00				\$40,000.00			
			HVAC	\$8,000.00	\$8,000.00	\$8,000.00								
			Paint Exterior				\$20,000.00	\$18,000.00						
			Paint Interior	\$11,000.00			\$11,000.00							
			Ceiling Tiles		\$20,000.00									
			Vinyl Floors								\$18,000.00	\$18,000.00	\$18,000.00	
			Carpet				\$6,000.00							
			Drinking Fountains	\$1,500.00	\$1,500.00	\$1,500.00								
			Tables and Chairs	\$1,500.00	\$2,000.00									
			Storage Shed											
			Kitchen Appliances	\$7,000.00	\$7,000.00	\$7,000.00				\$15,000.00				
			Water Heaters	\$5,000.00	\$5,000.00	\$5,000.00								
			Kitchen Floors									\$6,500.00	\$6,500.00	\$6,500.00
			Bathroom Fixtures/Partitions	\$7,500.00	\$20,000.00									
			Bathroom Floors									\$5,000.00	\$5,000.00	\$5,000.00
9	Parking Lots	Parking Lots												
10	Street Light Décor													
11	Existing Parks	Play Equipment			\$15,000.00	\$25,000.00								
		Shelters												
		Walkways/Table Pads												
		Landscape	\$12,000.00	\$12,000.00	\$12,000.00	\$12,000.00	\$12,000.00	\$12,000.00	\$12,000.00	\$12,000.00	\$12,000.00	\$12,000.00		
		Hardscape	\$10,000.00											
		Amenities (Tables, Benches, etc)	\$17,200.00		\$3,600.00				\$50,100.00					
Bathroom Facilities	\$2,800.00	\$2,800.00	\$2,800.00	\$3,000.00										
<b>Sub-Total Repair &amp; Maintenance Parks &amp; Rec.:</b>				<b>\$83,500.00</b>	<b>\$78,300.00</b>	<b>\$54,900.00</b>	<b>\$137,000.00</b>	<b>\$30,000.00</b>	<b>\$12,000.00</b>	<b>\$117,100.00</b>	<b>\$41,500.00</b>	<b>\$41,500.00</b>	<b>\$41,500.00</b>	

Phelan Pinon Hills Community Services District

**Government Funds 10-Year Repair and Maintenance Plan & Programs**

	No.	Item	Description											Notes
				2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029	2029/2030	2029/2030	2029/2030	
Solid Waste Programs	12	Community Clean-ups	2 per year	\$13,200.00	\$13,200.00	\$15,400.00	\$15,400.00	\$17,600.00	\$17,600.00	\$17,600.00	\$17,600.00	\$17,600.00	\$17,600.00	
	13	Tire Clean-ups	4 per year	\$11,000.00	\$11,000.00	\$13,200.00	\$13,200.00	\$15,400.00	\$15,400.00	\$15,400.00	\$15,400.00	\$15,400.00	\$15,400.00	
	14	Workshops		\$6,930.00	\$6,930.00	\$6,930.00	\$6,930.00	\$6,930.00	\$6,930.00	\$6,930.00	\$6,930.00	\$6,930.00	\$6,930.00	
	15	Trash & Recycling Program	Marketing Software	\$2,750.00	\$20,000.00	\$3,300.00	\$3,850.00	\$3,850.00	\$4,400.00	\$4,400.00	\$4,400.00	\$4,400.00	\$4,400.00	
	16	Household Hazardous Waste Program Special PPHCSD Hosted HHW Event	Staff Payable to SB County	\$3,300.00	\$3,300.00	\$3,300.00	\$3,300.00	\$3,300.00	\$3,300.00	\$3,300.00	\$3,300.00	\$3,300.00	\$3,300.00	
	17	Miscellaneous Marketing	Compost Bins	\$10,000.00	\$20,000.00	\$10,000.00	\$10,000.00	\$10,000.00	\$10,000.00	\$10,000.00	\$10,000.00	\$10,000.00	\$10,000.00	
	18	School Outreach Program		\$11,000.00	\$11,000.00	\$11,500.00	\$11,500.00	\$12,500.00	\$12,500.00	\$12,500.00	\$12,500.00	\$12,500.00	\$12,500.00	
	19	Service Organization Donations		\$1,500.00	\$1,500.00	\$2,000.00	\$2,000.00	\$3,500.00	\$3,500.00	\$4,000.00	\$4,000.00	\$4,000.00	\$4,000.00	
<b>Sub-Total Solid Waste Programs</b>				<b>\$59,680.00</b>	<b>\$121,930.00</b>	<b>\$65,630.00</b>	<b>\$66,180.00</b>	<b>\$73,080.00</b>	<b>\$73,630.00</b>	<b>\$74,130.00</b>	<b>\$74,130.00</b>	<b>\$74,130.00</b>	<b>\$74,130.00</b>	
<b>Total Government Funds Repair, Maintenance, &amp; Programs</b>				<b>\$143,180.00</b>	<b>\$200,230.00</b>	<b>\$120,530.00</b>	<b>\$203,180.00</b>	<b>\$103,080.00</b>	<b>\$85,630.00</b>	<b>\$191,230.00</b>	<b>\$115,630.00</b>	<b>\$115,630.00</b>	<b>\$115,630.00</b>	
<b>Total Government Funds CIP &amp; Capital Purchases</b>				<b>\$45,000.00</b>	<b>\$4,765,000.00</b>	<b>\$11,555,000.00</b>	<b>\$40,000.00</b>	<b>\$45,000.00</b>	<b>\$45,000.00</b>	<b>\$45,000.00</b>	<b>\$45,000.00</b>	<b>\$45,000.00</b>	<b>\$4,345,000.00</b>	
<b>Total Government Fund CIP, Capital Purchases, Repairs, Maintenance, &amp; Programs</b>				<b>\$188,180.00</b>	<b>\$4,965,230.00</b>	<b>\$11,675,530.00</b>	<b>\$243,180.00</b>	<b>\$148,080.00</b>	<b>\$130,630.00</b>	<b>\$236,230.00</b>	<b>\$160,630.00</b>	<b>\$160,630.00</b>	<b>\$4,460,630.00</b>	

*Items in blue italics are placeholder items*



### Enterprise 10-Year Repair and Maintenance Plan

	No.	Item	Description	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029	2029/2030	2030/2031	2031/2032	2032-2042	Notes	
Projects	1	Tank Maintenance STS 10-Year Contract (2021 to 2030)	Maintenance	\$267,200.00	\$48,300.00	\$267,200.00	\$48,300.00	\$48,300.00	\$48,300.00	\$48,300.00	\$48,300.00	\$48,300.00	\$48,300.00			
	2	Exterior Tank Rehab (8A, 7A-1, 7A-2, 8B, 7B-1 7B-2, 3C-1, 3C-2, 1C-1, 1C-2)	* Cost included in Item No. 15 Blast and Recoat (10-Year STS Contract)	*	*		*									
	3	1.0 MG Tank Interior Rehab (1A-3, 2A-2 & 2C-2 (\$215K/per cost over 4-year))	* Cost included in Item No. 15 Blast and Recoat (10-Year STS Contract)	*	*	*										
	4	Level Control/Pump Control/High Pressure Blow-off Control Valves / PRV Station maintenance. Well #14 PRV (164 valves total each year)	Maintenance	\$25,000.00	\$25,000.00	\$25,000.00	\$25,000.00	\$25,000.00	\$25,000.00	\$25,000.00	\$25,000.00	\$25,000.00	\$25,000.00	\$25,000.00		
	5	Well Rehabilitation / Equipping / Maintenance	Rehab Well Equip Mountain Well Rehab Well 1B (2023) & 2A (2024)	\$120,000.00	\$125,000.00	\$115,000.00	\$115,000.00	\$115,000.00	\$115,000.00	\$115,000.00	\$115,000.00	\$115,000.00	\$115,000.00	\$115,000.00		New budgeted amount Originally budgeted in 2023/2024 Originally budgeted in 2022/2023
	6	Booster Rehabilitation (4 per year)	Rehabilitation	\$80,000.00	\$80,000.00	\$85,000.00	\$85,000.00	\$85,000.00	\$85,000.00	\$85,000.00	\$85,000.00	\$85,000.00	\$85,000.00	\$85,000.00		
	7	SCADA (System SCADA Upgrade completed 2015)	Mountain Well - Oak Spring Site Upgrade	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00		Originally budgeted in 2023/2024
	8	PRV (Emergency By-Pass)	Rebuled / Replacement / Maintenance	\$10,000.00	\$15,000.00	\$10,000.00	\$10,000.00	\$10,000.00	\$10,000.00	\$10,000.00	\$10,000.00	\$10,000.00	\$10,000.00	\$10,000.00		
	9	Leak Maintenance Program	Service Line Replacement (150/yr) Water Pipeline Lowering/Covering	\$115,000.00	\$120,000.00	\$120,000.00	\$120,000.00	\$120,000.00	\$120,000.00	\$120,000.00	\$120,000.00	\$120,000.00	\$120,000.00	\$120,000.00		
	10	Solar - Operation and Maintenance - SunPower	O & M Contract (2016-2026)	\$136,000.00	\$68,000.00	\$61,000.00	\$58,000.00	\$96,000.00	\$110,000.00	\$110,000.00	\$110,000.00	\$110,000.00	\$110,000.00	\$110,000.00		
	11	SCADA TESCO Maintenance Contract	Support Services & Training	\$15,000.00	\$5,000.00	\$15,000.00	\$15,000.00	\$15,000.00	\$15,000.00	\$15,000.00	\$15,000.00	\$15,000.00	\$15,000.00	\$15,000.00		
	12	Lab Analysis	UCMRS	\$10,000.00	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00		
	13	Site Maintenance	Vegetation Mitigation (CAL Fire)	\$10,000.00	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00		
<b>Total R &amp; M:</b>				<b>\$818,775.00</b>	<b>\$532,875.00</b>	<b>\$958,775.00</b>	<b>\$521,875.00</b>	<b>\$559,875.00</b>	<b>\$573,875.00</b>	<b>\$573,875.00</b>	<b>\$573,875.00</b>	<b>\$573,875.00</b>	<b>\$573,875.00</b>	<b>\$573,875.00</b>	<b>\$0.00</b>	

## MEMORANDUM

**DATE:** May 24, 2023

**TO:** Board of Directors

**FROM:** Don Bartz, General Manager  
By: Sean Wright, Water Operations Manager

**SUBJECT:** Discussion & Possible Action Development for Ongoing Chromium-6 Mitigation

### STAFF RECOMMENDATION

Staff recommends the Board authorize staff to move forward with the development of projects necessary for Chromium-6 maximum contaminant level (MCL) mitigation in anticipation of upcoming California Department of Water Resources (CDWR) recommendations and State Water Board adoption.

### BACKGROUND

On July 1, 2014, the California Department of Public Health (CDPH) established a Chromium-6 MCL of 10 µg/L. In response, the District began working to mitigate Chromium-6. On May 31, 2017, the Superior Court of Sacramento County invalidated the CDPH's mandate, citing improper economic feasibility research. However, the court ordered the State Water Resources Control Board to adopt a new MCL for Chromium-6.

With this in mind, the District must continue with the development of projects necessary to mitigate Chromium-6 levels and staff is seeking approval to move forward with the development of the following staff and Engineering Committee-recommended projects:

### Completed Chromium-6 Mitigation Projects

- Well 6A: Prior to profiling the well was producing 210 gallons per minute with a Chromium-6 concentration of 9.8 µg/L. Upon completion of well profiling, the concentration was reduced to 5 µg/L at a flow of 390 gallons per minute.
- Well 6B: Prior to profiling, the well was producing 230 gallons per minute with a Chromium-6 concentration of 9.9 µg/L. Upon completion of well profiling, the concentration was reduced to 5 µg/L at a flow of 290 gallons per minute.
- Well 10 has been profiled and a pneumatic packer was strategically placed in the column while adjusting the pump setting. Prior to profiling, the well was producing 560 gallons per minute with a Chromium-6 concentration of 15 µg/L. Upon completion of well profiling, the concentration was reduced to 8.8 µg/L at a flow of 500 gallons per minute.
- Well 9A has been equipped for production, producing 120 gallons per minute with a Chromium-6 concentration of 0 µg/L.

- Well 15: Additional Chromium-6 free source capacity; the land has been acquired, the well has been drilled, the transmission pipeline has been installed, and well-head work has begun.
- 929 Acre Feet of water rights were purchased for hexavalent chromium mitigation.
- Testing of wells 23, 24, 25
- SCADA server upgraded to account for modified operations.

**Proposed Chromium-6 Mitigation Projects**

- Well 12 outfitting with a pneumatic packer to mitigate Chromium-6 intrusion.
- Addition of Well 16
- 6A Storage Reservoir
- Acquisition of Additional Water Rights
- Profile Well 14

Chromium 6 Project Costs and Revenue							
Chromium 6 Project Costs				04/30/23			
CIP #	CIP Name	Job Description	Dates	Actual Costs	Date Approved	Est Remaining	Total
	Water Rights* for Blending Project	929 AF of water rights for C-6 Project	7/16/2015	2,554,750.00	I	0	2,554,750.00
37	Dairy Wells	Rehab, prep, test	05/01/2015 - 06/21/2016	185,948.15	I	0	185,948.15
42	Chromium-6 Mitigation Project	Study, Design, CEQA, Testing, etc.	07/29/2014 - 07/01/2018	380,049.08	I	0	380,049.08
52	Chromium-6 Mitigation Project Engineering	Engineering Study & Project Design	02/03/2017 - 11/30/2017	528,353.07	I	0	528,353.07
81	Well 10 Profiling	Well 10 Profiling & Chromium Mitigation	01/01/2020-07/01/2020	206,478.00	9/15/2021	0	206,478.00
87	Well 9A Re-Development	Well 9A Redevelopment / Chromium Mitigation	01/01/2021-03/31/2022	193,410.17	9/15/2021	0	193,410.17
88	Well 6A Re-Development	Well 6A Redevelopment / Chromium Mitigation	01/01/2021-03/31/2022	179,191.37	9/15/2021	0	179,191.37
94	Land for Well 15 (Azalea Rd)	Land for Well 15 (Azalea Rd) / C6 Mitigation	08/01/2021-08/30/2021	32,876.87	9/15/2021	0	32,876.87
95	Well 15 - Development	Chromium Mitigation	01/01/2021-03/31/2023	1,525,089.84	9/15/2021	974,910.16	2,500,000.00
96	Well 6B - Re-development	Chromium Mitigation	01/01/2021-03/31/2023	124,688.11	9/15/2021	0	124,688.11
TBD	Well Profiling Well 14	Chromium Mitigation		0.00	9/15/2021	450,000.00	450,000.00
90	Non-Capital - Electrical Repairs 10/11	Chromium Mitigation	01/01/2021-03/31/2022	8,582.50		0	8,582.50
104	SCADA Server Upgrade	Chromium Mitigation	01/01/2021-03/31/2022	80,000.00	5/5/2021	0	80,000.00
TBD	Well Profiling (Misc)	Chromium Mitigation		0.00		150,000.00	150,000.00
TBD	Well #12 equip w/Cr6 packer	Chromium Mitigation		0.00		150,000.00	150,000.00
TBD	Water Rights	Chromium Mitigation		0.00		1,500,000.00	1,500,000.00
TBD	Well #16 New well	Chromium Mitigation		0.00		2,000,000.00	2,000,000.00
TBD	Storage Tank 6A 1.5 MG	Obtaining \$2 mil grant - total cost is \$2.7mil		0.00		700,000.00	700,000.00
*Water Rights GL #01-1-0-15150 07/2015			<b>Total</b>	<b>5,999,417.16</b>		5,924,910.16	11,924,327.32

The estimated remaining expenses will require a 7.1-year obligation resulting in a sunset date of 2031 for the Chromium-6 surcharge.

**FISCAL IMPACT**

Total: \$11,924,327      Actual to Date: \$5,999,417      Estimated Remaining Balance: \$5,924,910

**ATTACHMENT(S)**

N/A



## Water Operations Manager's Report April 2023

### 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	48 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.
Title 22	1 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 VOC	0 samples	As needed	All in compliance.
Nitrate as N	0 samples	As needed	All in Compliance.
Chromium 6	14 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.

<b>Total Monthly Production</b>	191.23 A. F. 21 % less than 2022
<b>2022 Monthly Production</b>	239.06 A. F.
<b>USA's Marked</b>	357
<b>Service Orders Completed</b>	608 service orders completed
<b>Main/Service Line Leaks</b>	25 service line leaks repaired. 3 Main line leak/ breaks repaired
<b>Hydrant Repairs/Replacements</b>	1 hydrant repaired/0 replaced
<b>Residential Meters Sold</b>	0
<b>Commercial Meters Sold</b>	0
<b>YTD Total Meters Sold (Calendar)</b>	7 (86 in 2022) (95 in 2021)
<b>Construction Meters Out</b>	4
<b>Service Lines Replaced</b>	1

### Job Code Summary

<b>Job Code</b>	<b>Total Completed</b>
C-Lock - Lock	82
C-Read & Unlock-Open - Read & Unlock - Opening	5
C-Read & Unlock-OC-DM - Read & Unlock - Opening-OC-DM	43
D-Closing Read & Lck - Closing Read & Lock DO NOT USE	3
D-Closing Read-OC-DM - Closing Read & Lock-OC-DM DO NOT USE	3
M- Investigate Lock - Verify Meter Still Locked	24
M- Verify Acct Class - Verify Account Class	0
M- Water Audit - Audit Water Usage	4
M-Backflow - Backflow Information	0
M-Cost Estimate Req - Cost Estimate Request	0
M-Data - Data Log	2
M-Bees- Bees	0
M-Investigate Leak - Investigate Leak	0
M-Investigate No Wtr - Investigate No Water	1
M-Lock No N/O Info - Meter Locked No New Owner Info	0
M-Low/No Consumption - Investigate Low/No Consumption	0
M-Meter Leaking - Meter Leaking	0
M-Meter UTL - Buried - Meter UTL - Buried	0
M-Pressure Ck Hi-Low - Pressure Check Hi-Low	1
M-R/R Angle Stop - Repair/ Replace Angle Stop	3
M-R/R Gate Valve - Repair/ Replace Gate Valve	2
M-Read - Read (do not update Read)	0
M-Repair Svc Line - Repair Service Line	25
M-Repair/Install Box - Meter Box	1
M-Replace Serv Line - Replace Service Line	1

M-Stake Meter Loc - Stake Meter Location	13
M-Status - Status	3
M-Turn off-Cust Req - Turn off - Customer Request	4
M-UNLOCK – UNLOCK	19
M-Verify Leak Repair - Verify Leak Repaired	4
M-Water Loss Leak - Door Hanger Water Loss Leak	8
M-Water Quality Taste - Water Quality - Taste	0
S- Replace Register - Register Not Sending Signal	00
S- Meter Downsize - Meter Downsizing	0
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	301
S-Replace Register - Replace Register Mueller	0
S-Replace Mtr- Replace Entire Meter Bottom Seal Leaking	3
Grand Totals	608

### Summary of Current Projects

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

- Well Soundings at all wells are being done monthly
- Well 14 Production for April 0.18 AF, YTD .70 AF @ \$1055 per AF replacement C/Y 2023
- Valves and Hydrants Maintenance: 0 hydrants flushed and painted YTD Total-63
- Service line replacement program on target to meet current established goals. 6 Replaced Calendar Year to Date, 52 Replaced Fiscal Year to Date
- Air-Vac maintenance & flushing program-0 Flushed & Maintenance YTD-0 of 336 Total Project 0% Complete
- Cla-Val automatic controls valves being systematically rebuilt as a water conservation measure- 17 Complete YTD Water savings from this project is 17 GPM and counting in conjunction with operational efficiency @ 7MG
- Water Meter Replacement Project- 4606 of 7204 Replaced – 64 % Complete
- Tank 1C-2 Interior coating sand, blast, re-coat- 10% Complete
- Outfitting & Equipping of Mountain well (Well 17)- 90% Complete
- Drilling, Outfitting, and Equipping of Well # 15- 30% Complete (Started 12/5/22)
- Pipeline Protection Project phase 3- Sonora Rd between Phelan Rd & Hollister- 100% Complete
- Pinon Hills Pipeline Project- 1,270' on Pinon Hills Rd- 100% Complete
- Booster 3A-B Suction can hole repair- 50% Complete

### Projects Completed

- Well 15 Pipeline 5900' of 12" Ductile Iron Installed -100% Complete.
- Re-wiring of site 5A Boosters A, B, C, and control wiring-100% Complete
- Well Meter and inter-tie Meter annual accuracy program FY 22/23- 100 % Complete
- Electrical Efficiency test performed @ every booster and well within the District- 100% Complete with summaries of notable replacements attached
- Oil Changes and greasing at all district wells 100% Complete Boosters 100 % Complete
- 1 Valves Turned this month as part of the district Valve Exercising Program, 4 Year to Date Turned of 4291
- 112 Dead ends flushed of 317 = every year no matter what < No goal, this is mandatory
- 1936 hydrants = 49 flushed this Year to Date 162 Painted Goal is 968 annually, this is done Bi-Annual
- Tank washouts of 10&11, 3B,2A-1,4B,3A,2A,4A,5A,1A-2 Complete
- Well 6B pedestal raised to 24", discharge piping replaced 100% Complete

