Assumptions / Constraints

150 Number of Connections (Community)

10% Dry Well Percentage Estimate

600 Foot Well Depth

300 Foot Average Cluster Piping / Connection

\$32 Per foot Trenching

Estimated Gallons per Minute / Connection

2 Number of New Ponderosa Wells

LPR Water Source Alternatives - FEASIBILITY Analysis

"Not Engineered - ESTIMATES (no bids yet)"

(includes related dependencies for Water Infrastructure Build-out and Ongoing O&M)

(Assumes Water Rights Acquisition is an independent related challenge)

(Assumes Water Rights will be Transferred)

(Alt 1. Private Well is less than 7 Connections & less than 25 ConCurrent Occupants)

ALTERNATIVE	[Approved for Commercial Use?] 1. Cluster LPR Wells (Landowner Mgmt)				[Community Public Water System]			I	[Com		Water System]	Com.
ALTERNATIVE >>>						2. New Ponderosa Well(s)		H	3. Large Off-site Well			Comments
D		Estimated Unit Cost	Total		l .	Estimated Unit Cost	Total			Estimated Unit Cost	T-4-1	Alt 1&2. Can LPR Wells be Public < 2 miles? Where on LPR is > 2 miles? Commercial or no?
Description	Qty	Offic Cost	Total		ty	Jill Cost	Total	H	Qty	Offic Cost	Total	on Erk is > 2 miles: Commencar or no:
Well Infrastructure Build-Out	l .			_ _				╟╟	_			11.100
Driller Mobilization	21	\$3,500	\$75,000	_	2	\$3,500	\$7,000	Щ				Alt 1&2. Resp Determined by landowners
Test Hole (9 7/8") [\$40/foot)	21	\$24,000	\$514,286	_	2	\$24,000	\$48,000	LL				Alt 1&2. Resp Determined by landowners
Ream Out / Final [\$80/foot]	21	\$48,000	\$1,028,571		2	\$48,000	\$96,000	Щ				Alt 1&2. Resp Determined by landowners
Cap Well	21	\$8,000	\$171,429		2	\$8,000	\$16,000	Щ				Alt 1&2. Resp Determined by landowners
100 foot Surface Seal	21	\$0	\$0		2	\$3,500	\$7,000				\$0	Alt 1&2. Resp Determined by landowners
Pump & install in hole	21	\$10,000	\$214,286		2	\$10,000	\$20,000				\$0	Alt 1&2. Resp Determined by landowners
Dry Well Fill Allowance	2	\$7,200	\$15,429	(0.5	\$7,200	\$3,600				\$0	Alt 1&2. Resp Determined by landowners
Project Management	21	\$750	\$16,071		2	\$750	\$1,500				\$0	Alt 1&2. Resp Determined by landowners
Administration	21	\$350	\$7,500		2	\$350	\$700				\$0	Alt 1&2. Resp Determined by landowners
Legal Contracts	21	\$1,000	\$21,429		2	\$5,000	\$10,000				\$0	Alt 1&2. Resp Determined by landowners
N Hood Trenching / BackFill	150	\$9,600	\$1,440,000		0		\$0				\$0	Alt 1&2. Resp Determined by landowners
N Hood Piping	150	\$600	\$90,000		0		\$0				\$0	Alt 1&2. Resp Determined by landowners
N Hood Tanks in Hole	11	\$2,000	\$22,857		0		\$0				\$0	Alt 1&2. Resp Determined by landowners
Small Tanks? Well Storage	0		\$0		0		\$0		0	\$0	\$0	Alt 3. Third Party Water Company Buildout
Neighbor Small Pumps	11	\$800	\$9,143		0		\$0				\$0	Alt 1&2. Resp Determined by landowners
Engineering Review	1	\$1,000	\$1,000		2	\$1,000	\$2,000				\$0	Alt 1&2. Resp Determined by landowners
Engineering	1	\$1,000	\$1,000		1	\$75,000	\$75,000		1	\$75,000	\$75,000	Alt 3. Third Party Water Company Buildout
Sand & Gravel / Connection	150	\$200	\$30,000	1	.50	\$400	\$60,000		150	\$400	\$60,000	Alt 3. Third Party Water Company Buildout
Electric Service for Pumps	21	\$4,000	\$85,714		2	\$6,500	\$13,000		2	\$6,500	\$13,000	Alt 3. Third Party Water Company Buildout
Alt 3. Project Mgmt (Build-Out)	0		\$0		1	\$33,000	\$33,000		1	\$33,000	\$33,000	Alt 3. Third Party Water Company Buildout
Large Pumps	0		\$0		2	\$16,302	\$32,604		2	\$16,302	\$32,604	Alt 3. Third Party Water Company Buildout
Large Tanks	0		\$0		1	\$50,000	\$50,000		1	\$50,000	\$50,000	Alt 3. Third Party Water Company Buildout
Piping-Well to Large Tanks	0		\$0		2	\$125,068	\$250,136	\Box	2	\$125,068		Alt 3. Third Party Water Company Buildout
Community Piping (Installed)	0		\$0		1	\$403,528	\$403,528	H	1	\$403,528		Alt 3. Third Party Water Company Buildout
Trenching/BackFill to LTanks	0	\$500	\$0	\dashv	1	\$153,930	\$153,930	\vdash	1	\$153,930		Alt 3. Third Party Water Company Buildout
Trenching/BackFill Community	0	\$500	\$0	$\dashv \vdash$	1	\$448,000	\$448,000	$\Vdash \parallel$	1	\$448,000		Alt 3. Third Party Water Company Buildout
Real Property Acquisition	0	\$500	\$0 \$0	$\dashv \vdash$	0	\$0	\$1,000	$\Vdash \Vdash$	0	\$440,000		Alt 3. Third Party Water Company Buildout
Booster Pump Shed	0	\$500	\$0	$\vdash \vdash$	1	\$20,000	\$20,000	$\Vdash \Vdash$	0	70	•	Alt 3. Third Party Water Company Buildout
Other / Misc	21	\$500	\$10,714	$\dashv \vdash$	2	\$150,000	\$300,000	$\Vdash \Vdash$	2	\$150,000	· · · · · · · · · · · · · · · · · · ·	Alt 3. Third Party Water Company Buildout
Alternative 3 Rough Estimate	0	\$300	\$10,714	$\dashv\vdash$	0	\$130,000	\$300,000	$\Vdash \Vdash$	150	\$35,000	. ,	Alt 3. Minimum # of landowners ?: Start deposit?
Alternative 5 Hough Estillate		ال	<u> </u>		7	٥٥	, JO	₩	120	733,000	73,230,000	Alt 3. Rate @ 150 X \$35000 per Connection; might
												be higher? 10M?; Transfer WR to ESSD?; Private
TOTAL			\$3,754,429				\$2,050,998				\$7 069 199	Water Co. build+O&M? Funding?
Cost Per Connection			\$25,030	$\dashv \vdash$			\$13,673	₩				Add Impact fee (meter set); rate/gal unknown

ALTERNATIVE >>>	[Approved for Commercial Use?] 1. Cluster LPR Wells (Landowner Mgmt)			[0	[Community Public Water System] 2. New Ponderosa Well(s)			3. Larg	nmunity Public Water System] 3. Large Off-site Well		Comments
Description	Qty	Estimated Unit Cost	Total	Q	Estimated ty Unit Cost	Total	Q	Estima ty Unit (otal	Alt 1&2. Can LPR Wells be Public < 2 miles? Where on LPR is > 2 miles? Commerical or no?
		•	11-		•				·		
Alternate third party Company BU	_			_							
	LPR Water Works			Private Company			Private	Private Company		Comments	
Well Infrastructure Build-Out Wells											
Pipes							+				
Tanks											
Meters											
Dry Well Expense				-			-				
Other				-			+	+			
				-			+	+			
							+	+			
TOTAL				┪			╁╁		<u> </u>		1
ONGOING OPERATIONS & MAINTI											
	LPR Public? Water Works			Private Company			Private Company				
One Time Expense							-				
Customer Connection Fee		\$15,000			\$15,000			\$15	,000		Could be 10K to 15K; Includes >\$350 meter
Monthly Billing				$-\parallel$	+		╫╫				
Estimated Customer Bill					+ +		╁╁				Rates TBD
Shared Infrastructure Maint.											
Allowance for Failure							$\bot \!\!\! \bot$				
Reserve for major Maint				_	+		+				
TOTAL				╫	<u> </u>		╫	<u> </u>			1
	Į.						╗				<u>†</u>