

FAC 8414 WATER WELL, POTABLE

FY22 SUC: \$5.99 KG

Source: Inflated from previous FY using ENR labor and material cost indices to measure actual inflation

Original Source: EPA data on pump replacement

FAC 8414 Potable Water Well

KG = 500 based upon (1) production well size in inventory and (2) base population of 5,000 consuming 150 GPCD

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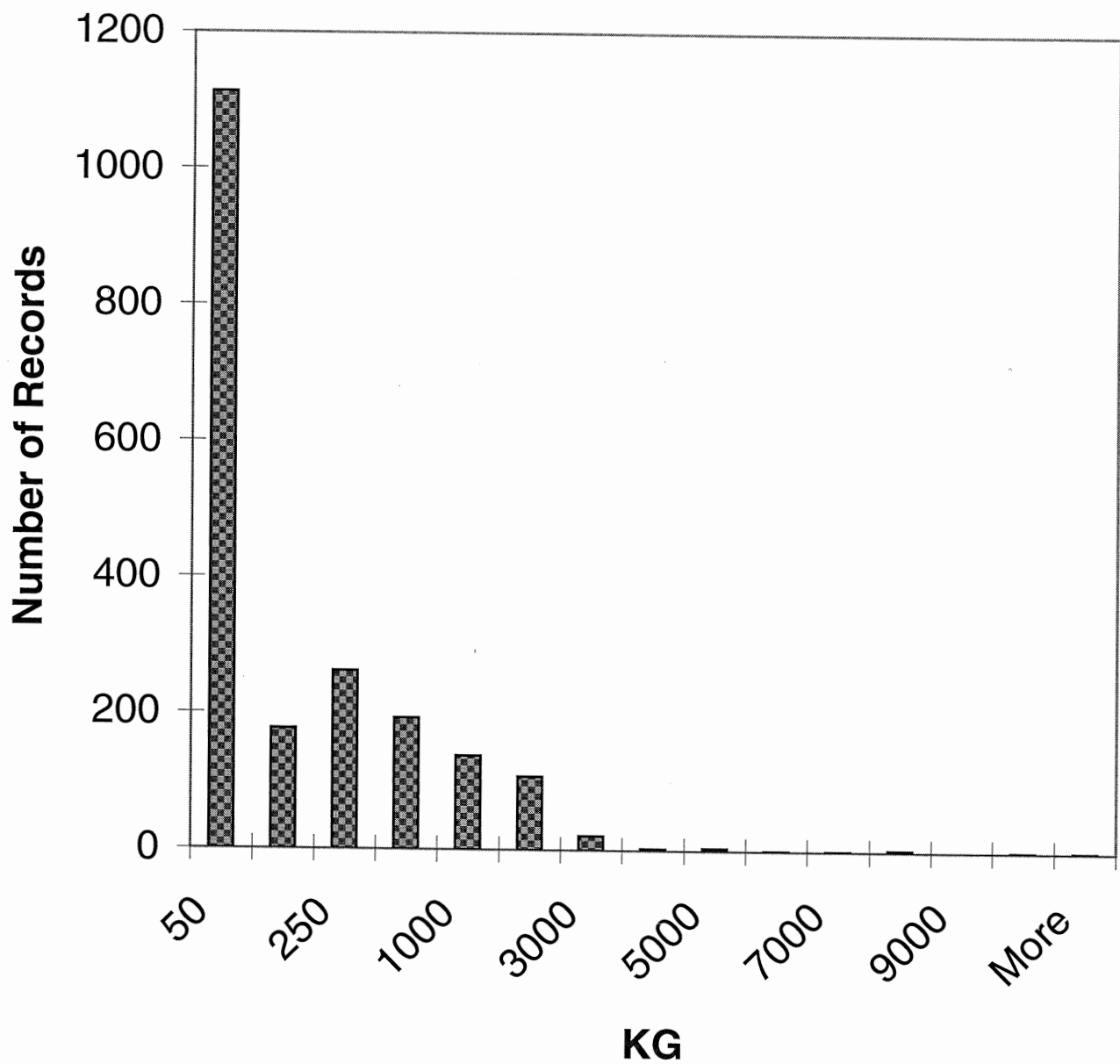
Borehole depth	500 ft	assumed
Well depth	480	
Borehole diameter	22 inches	
Casing diameter	12 inches	
Screen length	50 ft	

Cost Estimate	Qty	Units	Unit Cost	Total Cost
Install 22 inch conductor casing	50 ft		\$125	\$6,250
Drill pilot hole	500 ft		\$40	\$20,000
E-log	1 ea		\$4,000	\$4,000
Ream pilot hole to 26 inches	500 ft		\$50	\$25,000
Caliper log	1 ea		\$2,000	\$2,000
Install blank casing	480 ft		\$55	\$26,400
Install screen	50 ft		\$75	\$3,750
Install gravel pack	75 ft		\$25	\$1,875
Gravel tube	80 ft		\$6	\$480
Grout seal	425 ft		\$45	\$19,125
Plumb and alignment test	1 ea		\$2,500	\$2,500
Surge/airfit development	24 hr		\$275	\$6,600
Pumping Development	24 hr		\$150	\$3,600
Step test	10 hr		\$150	\$1,500
Constant Q test	40 hr		\$150	\$6,000
Pump Cost	1 ea		\$20,000	\$20,000
Install pump	1 ea		\$6,500	\$6,500
Electric & Wellhead finish	1 ea		\$20,000	\$20,000
				\$175,580
Cost per KG				\$351

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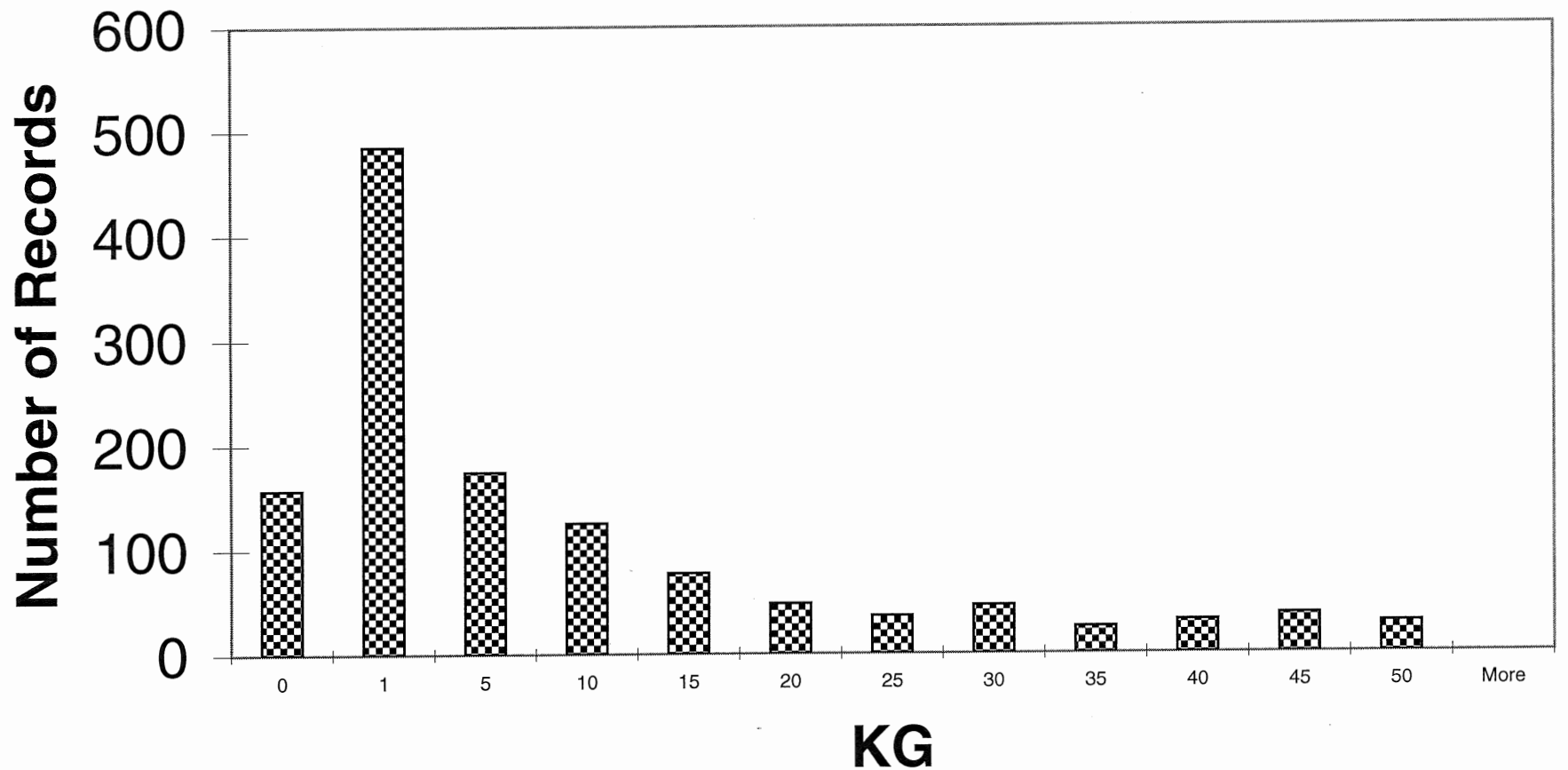
Replace pump, 10 year life cycle	1 ea	\$20,000	\$20,000
Annualized cost			\$2,000
Cost per KG (500 KG)			\$4.00

FAC 8414
Average 256.4
Median 35



FAC 8414

Only Records with KG < or = 50 KG



FAC 8414

Only Records with KG > 50

