Table 7A-3: Proposed MRGCD and Small Sandoval Irrigation Systems Metering Program - Proposed Costs

All land, water, crop and cost numbers presented in this table are based on published documents or data from agencies, many of which use estimates or placeholder assumptions to assign values. These values are based in part on empirical data (measurements, studies) however, they should not be considered as measured data. Therefore, the results of this analysis should be viewed as conceptual only and not as factual. Specific, more accurate data needs include, cropped acreages, crop irrigation requirements, on- and off-farm efficiency coefficients. References for all source documents have been provided.

1 Cost of Existing Planned MRGCD 2003 and 20	004 Plan					
1 dost of Existing Flammed WireGob 2000 and 20				make a sund for citities	•	20,000,00,
	2003			meters and facilities	\$	20,000.00 each
2004 2		meters and facilities	\$	20,000.00 each		
2 Proposed Metering and Control Program to inc	clude D-canal me	ters and cont	trols in MRG	GCD lateral service areas and for each si	mall system in Sand	doval county.
a Add one meter/control gate/RTU combo for	r each lateral serv	rice area >35	0 and < 1,00	00 acres: S.S. Papadopulos & Assoc., Ir	nc., MRGCD Efficier	ncy and Metering
Prog	gram, NM Intersta	ite Stream Co	ommission,	December 2002, Table 3.1		
b. Facility Cost Estimates:				Site work	\$	3,500
				Equipment	\$	9,500
				Concrete work and flume	\$	6,500
Equipment stage	je recorder	\$	6,500	Control gate	\$	7,000
soil r	moisture meter	\$	1,200	Radio Trans. Unit (RTU)	\$	4,000
data	alogger	\$	1,800	Power and Controls	\$	7,500
		\$	9,500	Fencing	\$	1,500
				Sub Tot. Construction	\$	39,500
	·			Design, survey @	9% \$	3,555
				Grand Total	\$	43,055
3 On-farm portable flow meters (12) \$	2,400	each				

#	County	Existing Lateral Service Areas	Proposed Lateral Meter/Gate/RTU Facilities	New Lateral Program Cost	MRGCD 2003 Program	MRGCD 2004 Program	Existing and Proposed Programs Cost
1	2	3	4	5	6	7	8
		#	#	\$	\$	\$	\$
1	Sandoval	12	19	\$ 818,045			
2	Bernalillo	35	43	\$ 1,851,365			
	Valencia	50	63	\$ 2,712,465			
3	Small Systems - Sandoval County	21	21	\$ 904,155			
	Totals		146	\$ 6,286,030	\$ 120,000.00	\$ 40,000.00	\$ 6,446,030

4 Cost estimates do not include any annual project financing costs. Costs do not include the positive value that might be realized from saved water used for other beneficial use.

Capital Project Cost Estimate		Annual Recurring Expenditures	
Total of MRGCD Metering/Controls (construction only) \$	6,446,030	Add 6 new full time staff (10 year cost) \$	360,000
Provide 12 portable on-farm flow meters \$	28,800	Operation and Maintenance (10 years) \$	73,000
Initial Operations Training \$	75,000	\$	433,000
MRGCD and Small Systems Operations Study and Plan \$	250,000		
Farmer Education Program \$	150,000		
Grand Total \$	6,949,830		

Possible Diversion Water Reduced (acre-feet)	42,803
Cost per acre foot of diverted water reduced	\$ 162
5 Years to Implement Program	