

# APPENDIX D

Part I Allocation of Capital and OM&R Costs Among Project Participants

# NAVAJO - GALLUP WATER SUPPLY PROJECT ALLOCATION OF CAPITAL AND O,M&R COSTS AMONG PROJECT PARTICIPANTS SAN JUAN RIVER - PNM ALTERNATIVE

James P. Merchant Dornbusch Associates Berkeley, CA April 13, 2006

### **Executive Summary**

This report is intended to describe the procedure used to allocate capital and operation, maintenance and replacement (O,M&R) costs for the preferred alignment and capacity scenario being considered for the Navajo-Gallup Water Supply Project (NGWSP). The report first explains the principles used for allocation, and then applies the principles to the 2040 version of the San Juan River PNM alternative. Costs are separated into capital costs, fixed O,M&R costs and variable O,M&R costs. Each of these cost categories is further divided into specific project reaches and then allocated to the participating parties. The allocation for the Gallup Regional System is included in the summary table but is developed separately in the detailed tables. The report assumes that construction would begin in 2008, with a construction budget of approximately \$60 million per year (2005\$). Full project completion would be January 1, 2021.

### **Allocation Principles**

The purpose of cost allocation is to assign shares of the overall project costs to the various participants. This project will provide municipal water supplies to three groups of participants -- the Navajo Nation, the City of Gallup and the Jicarilla Apache Nation. The overriding philosophy in allocating project costs is that the three participants are equal partners in the project. Alternative allocation approaches NOT adopted include (1) assigning the same cost per gallon to all project participants regardless of their location (a "postage stamp" approach), or (2) assuming that one participant was primary and that the other two should pay only the additional costs incurred due to their participation (a "marginal cost" approach).

In allocating costs we first separated specific project components that will be dedicated for the exclusive use by any single participant, and we assigned the cost of those *dedicated components* to the beneficiary participant. These dedicated components typically include water storage tanks and pressurization pumps at most of the major delivery points. The bulk of the project cost, however, is for components that will benefit more than one participant. These *joint costs* were allocated among the project participants to derive each participant's share of the total costs.

Joint costs were allocated according to the following principles:

- Capital costs were allocated according to each participant's share of design *capacity*. The idea is that the size and cost of the facilities depend upon each participant's desired capacity and not on average use or use in any particular period.
- Fixed O,M&R costs were also allocated according to each participant's share of design capacity. Here again, the fixed O,M&R costs (staff size, dredging, equipment replacement, pump maintenance) are primarily a function of the design capacity, not of flows in any particular period.
- Variable O,M&R costs were allocated according to each participant's share of annual water deliveries. The variable O,M&R costs consist mainly of

energy and water treatment chemical costs. These costs vary according to the water flows in any period, so the method used to allocate these costs assigns cost shares in each year according to the projected use in that year.

The project envisions water deliveries at many locations along (in this alignment alternative) two main branches. Every delivery to one party changes the relative shares of the water flow that continues along the pipeline beyond the delivery point. Because, as described above, the relative share of design capacity and projected flow serve as the basis for the cost allocation, the cost allocation changes after every delivery point. Therefore, we have separated each pipeline branch into specific *reaches* that are defined as the intervals between each two succeeding delivery points. The diversion structure and water treatment plant on each branch is also treated as a separate segment or reach. We computed each participant's share of design capacity on each reach in order to serve as the basis for allocating capital and fixed O,M&R costs (Table A1).

### Capital Costs

All of the capital construction costs were assigned to specific reaches and then split into dedicated costs and joint costs. Specific types of costs were allocated as follows: Pumping plant costs were itemized by the Bureau of Reclamation and we assigned each cost to its specific reach (Table B4). We assigned pipeline costs to each reach by accumulating the linear feet of each pipeline diameter and head class designed for each reach, then multiplying the accumulated length of each pipeline diameter and head class by its respective cost per foot (Table B5). Electric and communication facilities were distributed to the reaches per the design, while transmission lines were allocated according to the miles of new transmission line required for each reach (Table B6). Diversion structures, river pumping plants and water treatment plant costs were assigned to the initial reach of each branch (Table B7).

The various components of joint capital costs were added together for each reach and then allocated to the participants using the design capacities (Table B3). We then added the allocated joint capital costs to the dedicated capital costs for each party in each reach (Table B2).

Finally, we added unlisted items (10% of listed items), mobilization costs (5% of listed plus unlisted items) and contingency costs (25% of listed items, unlisted items and mobilization costs) to derive the total construction cost, or field cost, for each participant. We then added non-contract cost (30% of field costs) to determine total construction cost before taxes, and then added taxes (9% of total construction cost for most costs and 6% of the construction cost for the Gallup Regional System) to arrive at total construction cost with taxes. Table B1 shows this total as allocated to each participant.

#### Fixed OM&R Costs

The fixed O,M&R costs (we use "O,M&R" as shorthand for operation, maintenance and replacement) are comprised of the annual components that do not vary substantially with differences in flows through the system. These costs include staff costs, dredging,

equipment maintenance and annualized cost for equipment replacement. Allocation of fixed O,M&R costs was done analogously to the allocation of capital costs: the costs were assigned to the different reaches and then the O,M&R cost for each reach was apportioned among the participants according to their respective share of design capacity. About one-half of the fixed O,M&R cost was associated with the water treatment plants, so those costs were assigned entirely to the first reach of each branch, which contained the treatment plants. The remainder of the fixed O,M&R costs were pumping plant maintenance costs, and these costs were assigned to the reaches containing the pumping plants. Table D2 shows the fixed O,M&R costs for each reach, and allocates the costs to the participants.

#### Variable O,M&R Costs

The variable O,M&R costs are those annual operating costs that vary significantly with changes in system flows. These costs are primarily comprised of energy and water treatment chemical costs. Because these costs by definition change with changes in system flows we projected system flows over the 50-year life of the project (Table D3). The projected annual flows are based on the following assumptions:

- peak flows will be proportional to total water flows
- peak flows for Gallup and for the Jicarilla Apache Tribe would remain constant over the life of the project.
- peak flows for the Navajos would reach design capacity in the year designated in the Scenario: 2040.
- peak flows for the Navajos would remain constant following the year in which peak flows first reached design capacity
- peak flows for the Navajos would increase at a growth rate of 2.48% per year up to the year in which design capacity was first reached.

The Bureau of Reclamation provided energy and chemical costs associated with build-out project flows. We assumed that these costs would remain constant per unit of flow and then calculated the energy and chemical costs associated with each year's total flow. These total costs were allocated among the participants based on each year's respective shares of total flow. We performed these calculations for two different energy rate structures: Colorado River Storage Project (CRSP) rates (Table D6) and Navajo Tribal Utility Authority (NTUA) rates (Table D7). The applicable energy rates are shown as footnotes in Tables D6 and D7. Deliveries from Navajo Dam are subject to an estimated \$1.00 per acre-foot O&M charge by the Bureau of Reclamation. This cost is included as a variable O,M&R cost in Tables D6 and D7.

#### **Gallup Regional System Costs**

The design work and cost estimates for the Gallup Regional System were first prepared by DePauli Engineering. The Bureau of Reclamation used the DePauli design but reestimated much of the cost. Some of the Gallup System components were included in the Bureau's cost estimate worksheets for the overall system (eg. Navajo Chapter water storage tanks), but most components were listed separately on a Gallup-specific worksheet. We treated the components included with the other Bureau elements as part of the overall system cost allocation. We allocated the remaining items (all joint facilities) by allocating their cost to participants based on their respective shares of design capacity (Table C1).

O,M&R costs were estimated by the Bureau as a lump sum (one each for the CRSP and NTUA energy rates). We allocated this overall annual O,M&R cost to the participants based on their respective shares of design capacity (Table C2).

# Water Costs

Table C3 estimates the City of Gallup's cost of purchasing 7,500 acre-feet per year of water that would be conveyed by the project. At this point Gallup has not reached an agreement with any water supplier, so the cost estimates included in these tables may change. We used the terms of a possible agreement with the Jicarilla Apache Nation as the basis for our cost estimates, but they have not yet been agreed to.

In the absence of a water rights settlement that establishes different terms the Navajo Nation would pay for water from Navajo Reservoir used for non-agricultural purposes. These payments were estimated by the Bureau of Reclamation to have a present value of \$108.45 per acre-foot. We amortized that present value over the Navajo water deliveries using the CRSP interest rate of 2.875%. This cost is shown in Table D8.

We did not include any financial cost for the water to be delivered to the Jicarilla Apache Nation, pursuant to the terms of the Jicarilla Apache Tribe Water Rights Settlement Act (P.L. 102-441, section 8(d)(1)).

#### **Overall Summation**

Table 1 summarizes the above analysis. The table addresses the capital, annual O,M&R and present value of O,M&R costs for a scenario that assumes a construction budget of \$60 million per year in 2005\$. The table combines total construction cost including taxes for the Bureau-designed system and for the Gallup Regional System, developed separately in Tables B1 and C1. We added costs for environmental mitigation, cultural resources and right-of-way acquisition that were allocated in Table B8. We then added interest during construction that was calculated in Table B9. We calculated the present value of the annual fixed plus variable O,M&R costs (discounted at 5.375%), estimated under both the CRSP and NTUA energy rates. All financial costs are expressed as of the beginning of the year in which the project is completed: 2021. Interest during construction and interest on pre-project completion water purchase fees are compiled up to January 1, 2021, and post-completion O,M&R and post-completion water purchase fees are discounted to January 1, 2021. We then show the total present value of all costs, including capital, fixed O,M&R and variable O,M&R costs. Table 1 allocates these costs to each of the participants. All costs are based on January, 2005, price levels.

Figures 1 and 2 illustrate the components of overall cost. Figure 1 shows how total project costs are split among capital cost, interest during construction, the present value

of future OM&R costs and the present value of water cost. Figure 2 shows how total project costs are allocation to the three project participants. Figures 3, 4 and 5 show how the cost allocated to each project participant are composed of capital, interest during construction, OM&R and water costs. Finally, Figure 6 shows what the levelized cost per thousand gallons (in 2005\$) would be to each project participant, assuming full self-funding.

### **TABLE OF TABLES**

Table 1	Summary of Costs for San Juan River PNM Alternative, Scenario 1
Table A1	Allocation of Flow Capacities to Participants by Reach, 2040
Table B1	Total Capital Costs, 2040
Table B2	Allocation of Total Capital Costs by Participant, 2040
Table B3	Allocation of Total Capital Costs by Reach, 2040
Table B4	Allocation of Pumping Plant Costs by Reach, 2040
Table B5	Allocation of Pipeline Costs by Reach, 2040
Table B6	Allocation of Transmission Line Costs by Reach, 2040
Table B7	Allocation of Dams, etc. Costs by Reach, 2040
Table B8	Allocation of Environmental Mitigation, Cultural Resources and Right-
	of-Way Costs to Participants
Table B9	Interest During Construction
Table C1	Allocation of Gallup Regional System Capital Cost, 2040
Table C2	Allocation of Gallup Regional System O, M&R Costs, 2040
Table C3	Cost of Water to City of Gallup
Table D1	Summary of Annual O,M&R Costs by User, 2040
Table D2	Allocation of Annual Fixed O, M&R Costs by User, 2040
Table D3	Projection of Peak Flows by Reach, 2010-2070
Table D4	Projection of Peak Flows by Reach and by Participant, 2010-2070
Table D5	Percentage of Peak Flows by Reach and by Participant, 2010-2070
Table D6	Allocation of Annual Variable O,M&R Costs by User, CRSP rates, 2040
Table D7	Allocation of Annual Variable O,M&R Costs by User, NTUA rates, 2040
Table D8	Cost of Water to Navajo Nation

# **TABLE OF FIGURES**

Total Project Cost by Category
Allocation of Total Costs to Participants
Breakdown of Navajo Costs, NTUA Power Rates
Breakdown of Gallup Costs, NTUA Power Rates
Breakdown of Jicarilla Costs, NTUA Power Rates
Cost Per Thousand Gallons





# Figure 3 Navajo-Gallup Water Supply Project NTUA Power Rates Breakdown of Navajo Costs











#### Table 1

# Navajo - Gallup Water Supply Project 2040 San Juan PNM Alternative - \$60 million/year Construction Schedule Present Value of Total Costs (2005\$) 5.375% Discount Rate, 50 Year Project Life

Total	Capital Costs By User	Navajo	Gallup	Jicarilla	Total
	Allocated Construction Costs - Main System	\$530,300,000	\$96,300,000	\$25,600,000	\$652,200,000
	Allocated Capital Costs - Gallup Regional	\$15,700,000	\$25,300,000	\$0	\$41,000,000
	Allocated Environmental Mitigation Cost	\$3,100,000	\$700,000	\$100,000	\$3,900,000
	Allocated Cultural Resources Cost	\$8,700,000	\$1,900,000	\$400,000	\$11,000,000
	Allocated Right-of-Way Cost	\$5,500,000	\$1,200,000	\$300,000	\$7,000,000
	Total Project Capital Cost before Interest	\$563,300,000	\$125,400,000	\$26,400,000	\$715,100,000
	Allocated Interest During Construction	\$226,900,000	\$50,500,000	\$10,600,000	\$288,100,000
	Total Project Capital Cost	\$790,200,000	\$175,900,000	\$37,000,000	\$1,003,100,000
	Rounded Values	\$790,000,000	\$176,000,000	\$37,000,000	\$1,003,000,000
Annua	l O,M&R Costs By User (at Design Capacity)				
	CRSP Rates	Navajo	Gallup	Jicarilla	Total
	Allocated O,M&R Costs - Main System	\$7,894,428	\$1,723,449	\$640,163	\$10,258,040
	Allocated O,M&R Costs - Gallup Regional	\$160,000	\$259,000	\$0	\$419,000
	Annual Cost of Water	\$171,051	\$1,145,612	<b>\$</b> 0	\$1,316,663
	Total Allocated O,M&R Costs	\$8,225,479	\$3,128,061	\$640,163	\$11,993,703
	Rounded Values	\$8,200,000	\$3,100,000	\$600,000	\$12,000,000
	NTUA Rates	Navajo	Gallup	Jicarilla	Total
	Allocated O,M&R Costs - Main System	\$11,105,201	\$2,672,307	\$748,114	\$14,525,622
	Allocated O,M&R Costs - Gallup Regional	\$181,000	\$292,000	\$0	\$473,000
	Annual Cost of Water	\$171,051	\$1,145,612	\$0	\$1,316,663
	Total Allocated O,M&R Costs	\$11,457,252	\$4,109,919	\$748,114	\$16,315,285
	Rounded Values	\$11,500,000	\$4,100,000	\$700,000	\$16,300,000
Present	t Value of Total O,MぐR Costs By User				
	CRSP Rates	Navajo	Gallup	Jicarilla	Total
	Allocated O,M&R Costs - Main System	\$156,546,000	\$31,322,000	\$18,087,000	\$205,955,000
	Allocated O,M&R Costs - Gallup Regional	\$2,767,000	\$4,459,000	\$0	\$7,226,000
	Cost of Water	\$2,950,140	\$19,758,536	\$0	\$22,708,677
	Total Allocated O,M&R Costs	\$162,263,140	\$55,539,536	\$18,087,000	\$235,889,677
	Rounded Values	\$162,000,000	\$56,000,000	\$18,000,000	\$236,000,000
	NTUA Rates	Navajo	Gallup	Jicarilla	Total
	Allocated O,M&R Costs - Main System	\$206,675,000	\$47,917,000	\$20,967,000	\$275,559,000
	Allocated O,M&R Costs - Gallup Regional	\$3,124,000	\$5,034,000	<b>\$</b> 0	\$8,158,000
	Cost of Water	\$2,950,140	\$19,758,536	<b>\$</b> 0	\$22,708,677
	Total Allocated O,M&R Costs	\$212,749,140	\$72,709,536	\$20,967,000	\$306,425,677
	Rounded Values Note: Present value of O M&R costs include fixed and var	\$213,000,000 jable O M&R costs incurr	\$73,000,000 ed for partial water de	\$21,000,000 elivery before projec	\$306,000,000
		able Officer costs medin	ed for partial water d	envery before projec	et completion
Present	Value of Total Capital and O,M&R Costs By Use CRSP Rates	r			
	Capital	\$790,000,000	\$176 000 000	\$37,000,000	\$1 003 000 000
	O.M&R (including cost of water)	\$162,000,000	\$56,000,000	\$18,000,000	\$236,000,000
	Total All Costs	\$952,000,000	\$232,000,000	\$55,000,000	\$1,239,000,000
	NTIIA Rates				
	Capital	\$700.000.000	\$176,000,000	\$37,000,000	\$1 003 000 000
	O M&R	\$713.000,000 \$713.000.000	\$73,000,000	\$37,000,000	\$1,005,000,000
	Total All Costs	\$213,000,000	\$75,000,000	\$21,000,000	\$300,000,000
	I VIALATI CUSIS	\$1,003,000,000	φ <b>249,000,000</b>	#30,000,000	φ1,309,000,000

#### Table A1 Navajo - Gallup Water Supply Project San Juan River PNM Alternative - 2040 Allocation of Flow Capacities to Participants by Reach

				Peak	Peak						
				Flow in	Deliveries		Alle	ocation of Peal	k Flows By Rea	ch	
San Jua	n Branch		Pumping	Reach	in Reach	Navajo	Gallup	licarilla	Navaio	Gallup	licarilla
Number	Start	End	Plants	cfs	cfs	cfs	cfs	cfs	%	%	%
1	San Juan River	Water Treatment Plant (WTP)	River	59.18	0.00	45.71	13.47	0.00	0.7724	0.2276	0.0000
2	WTP	NAPI turnout	01	59.18	0.97	45.71	13.47	0.00	0.7724	0.2276	0.0000
3	NAPI	Shiprock Junction		58.21	6.72	44.74	13.47	0.00	0.7686	0.2314	0.0000
4	Shiprock J.	Sanostee turnout	02, 03	51.49	2.00	38.02	13.47	0.00	0.7384	0.2616	0.0000
5	Sanostee	Burnham Junction		49.49	0.27	36.02	13.47	0.00	0.7278	0.2722	0.0000
6	Burnham J.	Newcomb turnout		49.22	1.52	35.75	13.47	0.00	0.7263	0.2737	0.0000
7	Newcomb	Sheepsprings turnout	04	47.70	0.70	34.23	13.47	0.00	0.7176	0.2824	0.0000
8	Sheepsprings	Naschitti turnout	05	47.00	1.54	33.53	13.47	0.00	0.7134	0.2866	0.0000
9	Naschitti	Tohatchi tu <del>r</del> nout	06	45.46	1.99	31.99	13.47	0.00	0.7037	0.2963	0.0000
10	Tohatchi	Coyote Canyon Junction		43.47	5.06	30.00	13.47	0.00	0.6901	0.3099	0.0000
11	Coyote Canyon J.	Twin Lakes turnout	07	38.41	1.88	24.94	13.47	0.00	0.6493	0.3507	0.0000
12	Twin Lakes	Ya-ta-hey Junction	08	36.53	14.70	23.06	13.47	0.00	0.6313	0.3687	0.0000
13	Ya-ta-hey J.	Gallup Junction		21.83	13.47	8.36	13.47	0.00	0.3830	0.6170	0.0000
14	Gallup J.	Navajo Chapters		8.36	8.36	8.36	0.00	0.00	1.0000	0.0000	0.0000
	-				59.18						
10.1	Coyote Canyon J.	Coyote Canyon turnout	11	5.06	1.25	5.06	0.00	0.00	1.0000	0.0000	0.0000
10.2	Coyote Canyon	Standing Rock turnout	12	3.81	0.13	3.81	0.00	0.00	1.0000	0.0000	0.0000
10.3	Standing Rock	Dalton Pass turnout	13	3.68	3.68	3.68	0.00	0.00	1.0000	0.0000	0.0000
					5.06						
12.1	Ya-ta-hey J.	Rock Springs turnout	09	14.70	3.19	14.70	0.00	0.00	1.0000	0.0000	0.0000
12.2	Rock Springs	Window Rock turnout	10	11.51	11.51	11.51	0.00	0.00	1.0000	0.0000	0.0000
1					14.70						
				Flow in	Deliveries		Alle	ocation of Pea	k Flows By Rea	.ch	
Cutter E	Branch		Pumping	Reach	in Reach	Navajo	Gallup	Jicarilla	Navajo	Gallup	Jicarilla
Number	Start	End	Plants	cfs	cfs	cfs	cfs .	cfs	0/0	⁰∕₀	%
21	NIIP Canal	WTP	Reservoir	8.34	0.00	6.19	0.00	2.15	0.7422	0.0000	0.2578
22	WTP	Huerfano turnout	01, 02, 03	8.34	0.50	6.19	0.00	2.15	0.7422	0.0000	0.2578
23	Huerfano	Nageczi turnout	04	7.84	1.05	5.69	0.00	2.15	0.7258	0.0000	0.2742
24	Nageezi	Jicarilla turnout	05	6.79	2.15	4.64	0.00	2.15	0.6834	0.0000	0.3166
25	Jicarilla	Counselor turnout	06	4.64	2.63	4.64	0.00	0.00	1.0000	0.0000	0.0000
26	Counselor	Torreon turnout		2.01	2.01	2.01	0.00	0.00	1.0000	0.0000	0.0000
					8.34						

# Table B1 Navajo - Gallup Water Supply Project San Juan River PNM Alternative - 2040 Total Capital Costs - Main System Jan-05 \$

		Navajo	Gallup	Jicarilla	Total
Allocated Capital Costs		\$264,235,766	\$47,981,089	\$12,777,157	\$324,994,013
Mobilization @	5%	\$13,211,788	\$2,399,054	\$638,858	\$16,249,701
Subtotal		\$277,447,555	\$50,380,144	\$13,416,015	\$341,243,713
Unlisted Items @	10%	\$27,744,755	\$5,038,014	\$1,341,601	\$34,124,371
Subtotal		\$305,192,310	\$55,418,158	\$14,757,616	\$375,368,084
Contingencies @	25%	\$76,298,078	\$13,854,539	\$3,689,404	\$93,842,021
Total Field Costs		\$381,490,388	\$69,272,697	\$18,447,021	\$469,210,106
Non-Contract Costs @	30%	\$114,447,116	\$20,781,809	\$5,534,106	\$140,763,032
Total Construction Costs		\$495,937,504	\$90,054,507	\$23,981,127	\$609,973,137
Taxes on Field Cost @	9%	\$34,334,135	\$6,234,543	\$1,660,232	\$42,228,910
Total with Taxes		\$530,271,639	\$96,289,049	\$25,641,359	\$652,202,047
Rounded Total		\$530,300,000	\$96,300,000	\$25,600,000	\$652,200,000

Note: The costs in this table exclude the cost for the Gallup Regional System, which are shown in Table C1. The costs also exclude the environmental mitigation, cultural resourcs, right-of-way acquisition and interest during construction costs, which are shown in Table 1.

#### Table B2 Navajo - Gallup Water Supply Project San Juan River PNM Alternative - 2040 Allocation of Total Capital Costs by Participant Jan-05 \$

		Joint Costs									Dea	licated Cos	ts	]	1	otal Costs		
San Iua	n Branch	Total		Allo	ocation Ratio	os		Allo	ated Joint Cos	sts							- C II	Linguillo
Reach	End	Joint Costs	ł	Navajo	Gallup	Jicarilla		Navajo	Gallup	Jicarilla		Navajo	Gallup	Jicarilla	<u> </u>	Navajo	Canup	ficatina \$0
1	Water Treatment Plant (WTP)	\$41,796,965		0.7724	0.2276	-		\$32,283,529	\$9,513,436	÷ \$0		\$0	\$0	\$U ©0		\$32,283,329	\$9,313,430	\$0
2	NAPI turnout	\$6,471,016		0.7724	0.2276	-		\$4,998,143	\$1,472,872	\$0		\$0	\$0	\$0 \$0	1	\$4,990,143	\$1,472,072	\$0 \$0
3	Shiprock Junction	\$18,501,899		0.7686	0.2314	-		\$14,220,494	\$4,281,405	<b>\$</b> 0		\$0	\$0	\$0 ©0	]	\$14,220,494	\$7,055,065	\$0
4	Sanostee turnout	\$26,968,471		0.7384	0.2616	-		\$19,913,406	\$7,055,065	<b>\$</b> 0		\$3,280,000	\$U 60	30 80	(	\$23,193,400	\$2 733 675	\$0
5	Burnham Junction	\$10,043,769		0.7278	0.2722	-		\$7,310,094	\$2,733,675	\$0		\$0	<b>\$</b> 0	<b>\$</b> U	3	\$7,510,094	\$2,755,075	\$0
6	Newcomb turnout	\$5,178,155		0.7263	0.2737	-		\$3,761,053	\$1,417,102	\$0		\$2,520,000	\$U	\$U \$0	(	\$0,201,035	\$4,009,690	so
7	Sheepsprings turnout	\$14,199,125		0.7176	0.2824	-		\$10,189,435	\$4,009,690	\$0		\$1,430,000	\$U \$0	\$0 \$0	2	\$11,019,433 \$0,720,304	\$7,000,000	sol
8	Naschitti turnout	\$9,909,254	ł	0.7134	0.2866	-		\$7,069,304	\$2,839,950	\$0		\$2,670,000	\$0	\$U @C	<u>'</u>	\$9,759,504	\$6 214 698	50
9	Tohatchi turnout	\$20,974,030		0.7037	0.2963	-		\$14,759,332	\$6,214,698	\$0		\$3,280,000	\$0	\$C	1	\$18,039,332	\$0,214,098 \$1 791 799	\$0
10	Covote Canvon Junction	\$5,750,137	7	0.6901	0.3099	-		\$3,968,348	\$1,781,788	\$0		\$0	\$0	\$C ac	4	\$5,908,540	\$1,701,700	\$0
11	Twin Lakes turnout	\$5,968,759		0.6493	0.3507	-		\$3,875,575	\$2,093,184	<b>\$</b> 0		\$2,930,000	\$0	\$( ¢(	, ,	\$0,805,575	\$2,095,104	\$0 \$0
12	Ya-ta-hey Junction	\$7,869,750	5	0.6313	0.3687	-		\$4,967,878	\$2,901,878	<b>\$</b> 0		\$0	\$0	\$( \$(	3	\$4,907,070	\$2,901,070	\$0
13	Gallup Junction	\$2,700,544	1	0.3830	0.6170	-		\$1,034,198	\$1,666,346	\$0		\$0	\$0	\$L	2	\$1,034,190	\$1,000,040 \$0	\$0
14	Navajo Chapters	\$507,825	5	1.0000	-	-		\$507,825	\$0	\$0		\$13,400,000	\$0	\$L	2	\$13,907,825	<b>\$</b> 0	\$0
	,										1		\$0 \$0	\$(	2	SC (04 735	\$0	\$0
10.1	Coyote Canyon turnout	\$4,434,73	5	1.0000	-	-		\$4,434,735	\$0	\$0		\$2,250,000	\$0	30		\$0,084,733	0. 0.	\$0
10.2	Standing Rock turnout	\$7,574,548	3	1.0000	-	-		\$7,574,548	\$0	\$0		\$460,000	\$0	\$( \$)	л 	\$8,034,540	04 60	\$0 \$0
10.3	Dalton Pass turnout	\$2,580,22	ı 🗌	1.0000	-	-		\$2,580,221	\$0	\$0		\$4,550,000	\$0	\$(	J	\$7,130,221	\$U	- <b>P</b> C
1			1					1				1	\$0	\$( )	1	E0 207 2/0	<b>\$</b> 0	\$0
12.1	Rock Springs turnout	\$4,627,36	8	1.0000	-			\$4,627,368	\$0	\$0		\$4,680,000	\$0	\$(	0	\$9,507,508	\$0 \$0	\$0 \$0
12.2	Window Rock turnout	\$8,040,43	6	1.0000	-	-	ļ	\$8,040,436	\$0	\$0		\$15,100,000	\$0	20	"	\$25,140,450	\$U	40
				1			1				1							
Cutter	Branch							1					•					
Reach	End						1				<u> </u>							
21	WTP	\$8,157,42	0	0.7422	-	0.2578		\$6,054,488	\$0	\$2,102,932	2	\$0	\$0	\$	0	\$6,054,488	\$0	\$2,102,932
22	Eluerfano turnout	\$22,690,03	7	0.7422	-	0.2578	1	\$16,840,687	<b>\$</b> 0	\$5,849,350	1	\$1,100,000	<b>\$</b> O	\$	0	\$17,940,687	\$0	\$5,849,350
23	Nageezi turnout	\$6,206,37	8	0.7258	-	0.2742		\$4,504,374	\$0	<b>\$1,702,</b> 004	ł	\$1,840,000	\$0	\$	0	\$6,344,374	\$0	\$1,702,004
24	licarilla turnout	\$9,862,46	2	0.6834	-	0.3166		\$6,739,591	\$0	\$3,122,871		\$0	\$0	\$	0	\$6,739,591	\$0	\$3,122,8/1
25	Counselor turnout	\$5,215.42	6	1.0000	-	-		\$5,215,426	\$0	\$0	)	\$3,200,000	<b>\$</b> 0	\$	0	\$8,415,426	\$0	\$0
26	Torreon turnout	\$2,895,27	6	1.0000	-	-	I I	\$2,895,276	\$0	\$0		\$3,180,000	\$0	\$	0	\$6,075,276	\$0	\$0
1 -	Total	\$259,124.01	3	1	-, -, -, -,			\$198,365,766	\$47,981,089	\$12,777,157	7	\$65,870,000	\$0	\$	0	\$264,235,766	\$47,981,089	\$12,777,157

Grand Total \$324,994,013

This table allocates the capital costs shown in Table B3 using the allocation percentages developed in Table A1.

Table B3 Navajo - Gallup Water Supply Project San Juan River PNM Alternative - 2040 Allocation of Total Capital Costs by Reach Jan-05 \$

			Je	oint Costs			Dea	licated Cos	ts
		Diversion Str.	<b>%</b> %	Tanks &	1				
San Iua	n Branch	& Water		Pumping	Transm.				
Reach	End	Treatment	Pipeline	Plants	Lines	Total	Navajo	Gallup	Jicarilla
1	Water Treatment Plant (WTP)	\$40,240,555	\$0	\$1,300,000	\$256,410	\$41,796,965	\$0	\$0	\$0
2	NAPI turnout	\$0	\$2,062,306	\$4,230,000	\$178,710	\$6,471,016	\$0	\$0	<b>\$</b> 0
3	Shiprock Junction	\$0	\$18,271,899	\$230,000	\$0	\$18,501,899	\$0	\$0	\$0
4	Sanostee turnout	\$0	\$20,349,486	\$6,160,000	\$458,985	\$26,968,471	\$3,280,000	<b>\$</b> 0	<b>\$</b> 0
5	Burnham Junction	\$0	\$10,043,769	\$0	\$0	\$10,043,769	\$0	\$0	<b>\$</b> 0
6	Newcomb turnout	\$0	\$3,858,141	\$0	\$1,320,014	\$5,178,155	\$2,520,000	\$0	<b>\$</b> 0
7	Sheepsprings turnout	\$0	\$10,733,526	\$2,480,000	\$985,599	\$14,199,125	\$1,430,000	\$0	\$0
. 8	Naschitti turnout	\$0	\$5,252,164	\$2,230,000	\$2,427,090	\$9,909,254	\$2,670,000	\$0	\$0
9	Tohatchi turnout	\$0	\$16,986,678	\$2,930,000	\$1,057,352	\$20,974,030	\$3,280,000	\$0	\$0
10	Coyote Canyon Junction	\$0	\$5,379,019	\$0	\$371,118	\$5,750,137	\$0	\$0	<b>\$</b> 0
11	Twin Lakes turnout	\$0	\$2,516,748	\$2,430,000	\$1,022,011	\$5,968,759	\$2,930,000	\$0	\$0
12	Ya-ta-hey Junction	\$0	\$5,011,046	\$2,680,000	\$178,710	\$7,869,756	\$0	\$0	\$0
13	Gallup Junction	\$0	\$2,383,979	\$215,000	\$101,565	\$2,700,544	\$0	\$0	<b>\$</b> 0
14	Navajo Chapters	\$0	\$0	<b>\$</b> 0	\$507,825	\$507,825	\$13,400,000	<b>\$</b> 0	<b>\$</b> 0
10.1	Coyote Canyon turnout	\$0	\$3,624,460	\$530,000	\$280,275	\$4,434,735	\$2,250,000	<b>\$</b> 0	\$0
10.2	Standing Rock turnout	\$0	\$6,559,273	\$735,000	\$280,275	\$7,574,548	\$460,000	<b>\$</b> 0	\$0
10.3	Dalton Pass turnout	\$0	\$1,719,946	\$580,000	\$280,275	\$2,580,221	\$4,550,000	\$0	\$0
12.1	Rock Springs turnout	\$0	\$3,277,093	\$1,070,000	\$280,275	\$4,627,368	\$4,680,000	<b>\$</b> 0	\$0
12.2	Window Rock turnout	\$0	\$5,646,502	\$1,080,000	\$1,313,934	\$8,040,436	\$15,100,000	\$0	\$0
Cutter 1	Branch								
Reach	End								
21	WTP	\$8,079,720	\$0	\$0	\$77,700	\$8,157,420	\$0	\$0	\$0
22	Huerfano tu <del>r</del> nout	\$0	\$13,226,330	\$2,650,000	\$6,813,707	\$22,690,037	\$1,100,000	<b>\$</b> 0	\$0
23	Nageezi turnout	\$0	\$5,196,103	\$730,000	\$280,275	\$6,206,378	\$1,840,000	\$0	\$0
24	Jicarilla turnout	\$0	\$6,329,402	\$1,020,000	\$2,513,060	\$9,862,462	\$0	\$0	\$0
25	Counselor turnout	\$0	\$3,690,497	\$850,000	\$674,930	\$5,215,426	\$3,200,000	\$0	\$0
26	Torreon turnout	\$0	\$2,793,711	\$0	\$101,565	\$2,895,276	\$3,180,000	\$0	\$0
1	Tot	al \$48.320.275	\$154,912,077	\$34,130,000	\$21,761,661	\$259,124,013	\$65,870,000	\$0	\$0

This table summarizes Joint and Dedicated Costs detailed in Tables B4, B5, B6 and B7.

#### Table B4 Navajo - Gallup Water Supply Project San Juan River PNM Alternative - 2040 Allocation of Pumping Plant and Tank Costs by Reach

#### Jan-05 \$

San Juan Branch         No.         No.         No.         No.         No.         Purping         Forebay         Air         Regulating         Total         Storage Tanks         Storage Tanks         Storage Tanks         Storage Tanks         Storage Tanks         Storage Tanks         Total         Navio         Callup         Jicarilla         Navio         Callup         Jicarilla <tht< th=""><th>Jicarilla \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0</th></tht<>	Jicarilla \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
San Juan Branch         No.         No.         No.         No.         Pumping Plants         Forebay         Air         Regulating Tanks         Total         Storage Tanks         Screice Area Pumping Plants         Total         Navajo         Gallup         Jicanila         Navajo         Gallup	_jicarilla \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
Rech         End         WTP         Turnouts         Pums         Tarke         Chambers         Tarks         Total         Navajo         Gallup         Jicarilla         Navajo	Jicarilla \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
1       Water Treatment Plant (WTP)       1       0       0       \$1,300,000       \$0       \$0       \$1,300,000       \$1,400,000       \$1,200,000       \$1,200,000       \$1,200,000       \$1,200,000       \$1,200,000       \$1,200,000       \$1,200,000       \$1,200,000       \$1,200,000       \$1,200,000       \$1,200,000       \$1,200,000       \$1,200,000       \$1,200,000       \$1,200,000       \$1,400,000       \$1,200,000       \$1,4,400,000       \$1,400,000	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
2       NAPI turnout       0       0       1       \$4,000,000       \$150,000       \$123,000       \$230,000       \$31,100,000       \$180,000       \$30,200,000       \$31,100,000       \$31,00,000	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
3       Shiprock junction       0       0       0       50       \$20,000       \$220,000       \$230,000       \$310,000       \$310,0000       \$310,0000       \$310,0000       \$310,0000       \$310,0000       \$310,0000       \$310,0000       \$310,0000       \$310,0000       \$310,0000       \$32,0000       \$310,0000       \$310,0000       \$32,0000       \$310,0000       \$310,0000       \$32,0000       \$310,0000       \$310,0000       \$32,0000       \$310,0000       \$310,0000       \$32,0000       \$310,0000       \$32,0000       \$310,0000       \$32,0000       \$310,0000       \$32,0000       \$310,0000       \$32,0000       \$310,0000       \$32,0000       \$310,0000       \$32,0000       \$310,0000       \$32,00000       \$310,0000       \$32,00000       \$310,0000 <td>\$0 \$0 \$0 \$0 \$0 \$0</td>	\$0 \$0 \$0 \$0 \$0 \$0
4       Sanostee turnout       0       1       2       \$5,700,000       \$160,000       \$300,000       \$6,160,000       \$31,00,000       \$180,000       \$32,280,000       \$30       \$1,300,000       \$13,00,000       \$10,000       \$10,000       \$10,000       \$10,000       \$10,000       \$10,000       \$10,000       \$10       \$10	\$0 \$0 \$0 \$0 \$0
5       Burnham Junction       0       0       0       \$1,300,000       \$13,00,000       \$13,00,000       \$13,00,000       \$13,00,000       \$13,00,000       \$13,00,000       \$14,00,000       \$14,00,000       \$10,000 <t< td=""><td>\$0 \$0 \$0 \$0</td></t<>	\$0 \$0 \$0 \$0
6       Newcomb turnout       0       1       0       *0       \$0       \$0       \$2,350,000       \$170,000       \$2,520,000       \$2,300,000       \$130,000       \$14,30,000       \$2,480,000       \$130,000       \$14,30,000       \$2,480,000       \$130,000       \$14,30,000       \$2,470,000       \$2,230,000       \$2,230,000       \$2,230,000       \$2,230,000       \$2,230,000       \$2,270,000       \$2,270,000       \$2,270,000       \$2,270,000       \$2,270,000       \$2,270,000       \$2,270,000       \$2,293,000       \$2,300,000       \$2,270,000       \$2,270,000       \$2,270,000       \$2,270,000       \$2,293,000       \$2,300,000       \$2,270,000       \$2,270,000       \$2,200,000       \$2,300,000       \$2,300,000       \$2,300,000       \$2,300,000       \$2,300,000       \$2,300,000       \$2,300,000       \$2,300,000       \$2,300,000       \$2,470,000       \$2,470,000       \$2,930,000       \$3,100,000       \$3,100,000       \$3,200,000       \$3,200,000       \$3,200,000       \$3,200,000       \$2,300,000       \$2,300,000       \$2,300,000       \$2,300,000       \$2,750,000       \$180,000       \$2,930,000       \$2,930,000       \$2,50,000       \$10,200       \$2,50,000       \$10,200       \$2,50,000       \$10,200       \$2,50,000       \$10,200       \$10,200       \$10,200       \$10,200 <td< td=""><td>\$0 \$0 \$0</td></td<>	\$0 \$0 \$0
7       Sheepsprings turnout       0       1       1       \$2,250,000       \$2,480,000       \$1,300,000       \$130,000       \$14,430,000       \$2,670,000       \$2,670,000       \$2,670,000       \$2,200,000       \$2,200,000       \$100,000       \$2,230,000       \$170,000       \$2,2670,000       \$2,670,000       \$2,200,000       \$2,200,000       \$100,000       \$2,230,000       \$180,000       \$12,230,000       \$100,000       \$2,200,000       \$100,000       \$2,230,000       \$100,000       \$2,250,000       \$100,000       \$100,000       \$100,000       \$100,000       \$100,000       \$100,000       \$100,000       \$100,000       \$100,000       \$100,0	\$0 \$0
8       Naschitti turnout       0       1       1       \$2,000,000       \$2,230,000       \$2,300,000       \$170,000       \$2,670,000       \$2,670,000       \$3,100,000       \$180,000       \$180,000       \$13,280,000       \$13,280,000       \$13,280,000       \$13,280,000       \$13,280,000       \$13,280,000       \$13,280,000       \$13,280,000       \$13,280,000       \$13,280,000       \$13,280,000       \$13,280,000       \$12,230,000       \$2,750,000       \$180,000       \$12,293,000       \$10       \$10       \$2,200,000       \$2,430,000       \$12,430,000       \$12,230,000       \$2,750,000       \$180,000       \$12,293,000       \$2,230,000       \$2,750,000       \$180,000       \$12,293,000       \$2,930,000       \$12,250,000       \$2,230,000       \$2,750,000       \$2,750,000       \$2,230,000       \$2,230,000       \$2,750,000       \$2,750,000       \$2,230,000       \$2,230,000       \$2,750,000       \$2,750,000       \$2,230,000       \$2,230,000       \$2,750,000       \$2,750,000       \$2,750,000       \$2,750,000       \$2,750,000       \$2,750,000       \$2,750,000       \$2,750,000       \$13,400,000       \$2,250,000       \$10,1       \$2,250,000       \$2,250,000       \$2,150,000       \$2,150,000       \$2,100,000       \$12,550,000       \$13,400,000       \$2,250,000       \$13,400,000       \$2,250,000 <t< td=""><td>\$0</td></t<>	\$0
9       Tohatchi tumout       0       1       1       \$2,700,000       \$80,000       \$150,000       \$2,930,000       \$3,100,000       \$180,000       \$180,000       \$3,280,000       \$1       \$0	
10       Coyote Canyon Junction       0       0       0       \$1       1       \$2,200,000       \$150,000       \$2,430,000       \$2,430,000       \$2,430,000       \$2,430,000       \$2,430,000       \$2,430,000       \$2,430,000       \$2,430,000       \$2,450,000       \$0 <td><b>\$</b>0</td>	<b>\$</b> 0
11       Twin Lakes turnout       0       1       1       \$2,20,000       \$80,000       \$150,000       \$2,430,000       \$2,750,000       \$180,000       \$2,930,000       \$10         12       Ya-ta-hey Junction       0       0       1       0       \$2,450,000       \$2,680,000       \$2,680,000       \$2,50,000       \$10       \$13,400,000       \$13,400,000       \$13,400,000       \$13,400,000       \$13,400,000       \$13,400,000       \$13,400,000       \$13,400,000       \$14,60,000       \$10,000       \$10,000       \$14,600,0000       \$10,000<	<b>\$</b> 0
12       Ya-ta-hey Junction       0       0       1       \$2,450,000       \$150,000       \$2,680,000       \$215,000       \$215,000       \$215,000       \$10,100       \$10,100       \$10,100       \$10,100       \$10,100       \$10,100       \$10,100       \$10,100       \$10,100       \$10,000	<b>\$</b> 0
13       Gallup Junction       0       1       0       \$0       \$0       \$0       \$0       \$215,000       \$12,550,000       \$12,550,000       \$13,400,000       \$13,400,000       \$13,400,000       \$13,400,000       \$13,400,000       \$12,250,000       \$12,550,000       \$12,550,000       \$150,000       \$13,400,000       \$13,400,000       \$12,250,000       \$10,000	<b>\$</b> 0
14       Navajo Chapters       0       5       0       \$0       \$0       \$0       \$0       \$0       \$12,550,000       \$1850,000       \$13,400,000       \$13,400,000       \$13,400,000       \$13,400,000       \$13,400,000       \$13,400,000       \$13,400,000       \$13,400,000       \$13,400,000       \$13,400,000       \$12,250,000       \$12,250,000       \$150,000       \$12,250,000       \$150,000       \$12,250,000       \$10,000       \$12,250,000       \$10,000       \$10,000       \$22,50,000       \$12,250,000       \$10,000       \$14,60,000       \$10,000       \$14,60,000       \$10,000       \$14,60,000       \$10,000       \$14,450,000       \$22,000       \$14,680,000       \$15,000       \$10,000<	<b>\$</b> 0
10.1       Coyote Canyon tumout       0       1       1       \$30,000       \$80,000       \$150,000       \$530,000       \$2,100,000       \$10,000       \$2,250,000       \$460,000       \$460,000       \$460,000       \$10,100       \$300,000       \$80,000       \$150,000       \$530,000       \$360,000       \$10,100       \$300,000       \$10,100	<b>\$</b> 0
10.1       Control Contecontro Contecont Control Contecontrol Control Control	\$0
10.2       Standing Rock unduit       0       1       1       \$350,000       \$150,000       \$150,000       \$580,000       \$4,300,000       \$250,000       \$250,000       \$4,550,000       \$4,550,000       \$4,550,000       \$4,550,000       \$4,550,000       \$10,000       \$200,000       \$10,000       \$250,000       \$250,000       \$4,550,000       \$4,550,000       \$4,550,000       \$4,500,000       \$250,000       \$10,000       \$200,000       \$10,000       \$200,000       \$10,000       \$200,000       \$10,000       \$200,000       \$10,000       \$200,000       \$10,000       \$200,000       \$10,000       \$200,000       \$10,000       \$200,000       \$10,000       \$200,000       \$10,000       \$200,000       \$10,000       \$200,000       \$10,000       \$200,000       \$10,000       \$200,000       \$10,000       \$200,000       \$10,000       \$200,000       \$10,000       \$200,000       \$10,000       \$200,000       \$10,000 <td><b>\$</b>0</td>	<b>\$</b> 0
10.5       Datch Fass futnout       0       1       1       \$50,000       \$10,000       \$10,000       \$10,000       \$10,000       \$10,000       \$10,000       \$10,000       \$10,000       \$230,000       \$230,000       \$230,000       \$230,000       \$10,000       \$230,000       \$10,000       \$230,000       \$10,000       \$230,000       \$10,000       \$200,000       \$10,000       \$200,000       \$10,000       \$200,000       \$10,000       \$200,000       \$10,000       \$200,000       \$10,000	<b>\$</b> 0
12.1       Rock Springs turnout       0       1       1       \$84,000       \$1,070,000       \$4,450,000       \$23,000       \$4,680,000       \$10,000	
12.2       Window Rock turnout       0       1       1       \$650,000       \$10,000 <th< td=""><td>\$0</td></th<>	\$0
	<b>\$</b> 0
Cutton Burnah	1
	ļ
	\$0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	\$0
22 Huerano himour 0 1 5 91,500,000 92,0000 92,0000 92,0000 91,500,0000 91,500,000 91,500,0000 91,500,000000000	<b>\$</b> 0
	<b>\$</b> 0
24 jicama dimout 0 0 1 1 100000 \$10000 \$10000 \$10000 \$10000 \$1000000 \$100000 \$100000 \$100000000	<b>\$</b> 0
23 Counselor uniour 0 1 1 ( ) (0,000 )	<b>\$</b> 0
20 Torreon turnout 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	\$0

*Cost per Unit* Forebay Tanks Air Chambers

\$80,000 \$150,000

#### Table B5 Navajo - Gallup Water Supply Project San Juan River PNM Alternative - 2040 Allocation of Pipeline Costs by Reach Jan-05 \$

		_			Joint Costs								
		Total	Soil Cement			Total	Soil Cement		Butterfly				
San Juan	n Branch	Excavation	Embedment	Backfill		Excavation	Embedment	Backfill	Valves	Pipeline			
Reach	End	cubic yards	cubic yards	cubic yards		\$	\$	\$	\$	\$	Total		
1	Water Treatment Plant (W	TP)				\$0	\$0	\$0	\$0	\$0	\$0		
2	NAPI turnout	22,720	4,385	13,991		\$81,906	\$263,087	\$34,978	\$43,000	\$1,639,334	\$2,062,306		
3	Shiprock Junction	258,690	49,923	159,300		\$932,583	\$2,995,359	\$398,251	\$387,000	\$13,558,706	\$18,271,899		
4	Sanostee turnout	267,961	51,713	165,008		\$966,006	\$3,102,760	\$412,521	\$408,500	\$15,459,699	\$20,349,486		
5	Burnham Junction	145,024	27,987	89,305		\$522,815	\$1,679,249	\$223,261	\$215,000	\$7,403,444	\$10,043,769		
6	Newcomb turnout	54,217	10,463	33,387		\$195,454	\$627,775	\$83,468	\$86,000	\$2,865,445	\$3,858,141		
7	Sheepsprings turnout	135,808	26,168	85,199		\$489,591	\$1,570,096	\$212,997	\$215,000	\$8,245,842	\$10,733,526		
8	Naschitti turnout	70,620	15,148	42,763		\$254,587	\$908,866	\$106,908	\$129,000	\$3,852,803	\$5,252,164		
9	Tohatchi turnout	241,956	45,020	154,240		\$872,257	\$2,701,178	\$385,601	\$354,000	\$12,673,642	\$16,986,678		
10	Coyote Canyon Junction	80,687	15,480	51,629		\$290,878	\$928,779	\$129,073	\$112,000	\$3,918,288	\$5,379,019		
11	Twin Lakes turnout	35,803	6,815	23,397		\$129,071	\$408,919	\$58,492	\$48,000	\$1,872,266	\$2,516,748		
12	Ya-ta-hey Junction	71,559	13,621	46,762		\$257,972	\$817,235	\$116,906	\$96,000	\$3,722,933	\$5,011,046		
13	Gallup Junction	37,248	6,904	25,973		\$134,280	\$414,218	\$64,933	\$30,000	\$1,740,548	\$2,383,979		
14	Navajo Chapters					\$0	\$0	\$0	\$0	\$0	\$0		
10.1	Coyote Canyon turnout	52,013	9,309	37,829		\$187,508	\$558,549	\$94,572	\$37,800	\$2,746,032	\$3,624,460		
10.2	Standing Rock turnout	108,432	19,695	80,284		\$390,900	\$1,181,685	\$200,711	\$86,400	\$4,699,578	\$6,559,273		
10.3	Dalton Pass turnout	28,983	4,295	22,932		\$104,484	\$257,679	\$57,331	\$17,600	\$1,282,851	\$1,719,946		
12.1	Rock Springs turnout	53,238	9,868	37,124		\$191,924	\$592,089	<b>\$92,8</b> 10	\$45,000	\$2,355,270	\$3,277,093		
12.2	Window Rock turnout	95,688	17,455	68,047		\$344,957	\$1,047,303	\$170,117	\$77,400	\$4,006,724	\$5,646,502		
		1,760,647	334,247	1,137,172									
Cutter E	Branch												
Reach	End												
21	WTP					\$0	\$0	\$0	\$0	\$0	\$0		
22	Huerfano turnout	192,709	34,512	137,970		\$694,720	\$2,070,709	\$344,925	\$130,400	\$9,985,575	\$13,226,330		
23	Nageezi turnout	88,749	15,884	63,162		\$319,942	\$953,051	\$157,905	<b>\$64,8</b> 00	\$3,700,405	\$5,196,103		
24	Jicarilla turnout	110,898	18,269	80,964		\$399,790	\$1,096,119	\$202,411	\$83,800	\$4,547,282	\$6,329,402		
25	Counselor turnout	66,894	9,912	51,239		\$241,154	\$594,737	\$128,097	\$39,600	\$2,686,908	\$3,690,497		
26	Torreon turnout	55,295	7,754	44,158		\$199,340	\$465,220	\$110,396	\$37,400	\$1,981,356	\$2,793,711		
		Total 2,275,192	420,578	1,514,665		\$8,202,119	\$25,234,662	\$3,786,663	\$2,743,700	\$114,944,932	\$154,912,077		

#### Cost per Unit

Rock Excavation, per cy	\$10.00	Total Excavation, cy	2,275,192
Common Excavation, per cy	\$3.00	Rock Excavation, cy	196,649
Average Excavation cost, per cy	\$3.61	Rock/Total, ratio	0.0864
Backfill, per cy	\$2.50		

#### 'Table B6 Navajo - Gallup Water Supply Project San Juan River PNM Alternative - 2040 Allocation of Transmission Line Costs by Reach Jan-05 \$

						Joint Costs							
San Jua	n Branch	No.	No.	No.	Miles		Elect.	·····					
Reach	End	WГР	Turnouts	Pump P.	Trans Ln	Trans. Ln	Equip	SCADA	Comm.	Security	Pwr Tap	Other	Total
1	Water Treatment Plant (WTP)	1	0	1		\$0	\$155,400	\$5,550	\$22,200	\$6,660	\$66,600		\$256,410
2	NAPI turnout	0	0	1		\$0	\$77,700	\$5,550	\$22,200	\$6,660	\$66,600		\$178,710
3	Shiprock Junction	0	0	0		\$0	<b>\$</b> 0	\$0	<b>\$</b> 0	<b>\$</b> 0	\$0		\$0
4	Sanostee turnout	0	1 .	2		\$0	\$162,615	\$16,650	\$66,600	\$13,320	\$199,800		\$458,985
5	Burnham Junction	0	0	0		\$0	\$0	\$0	\$0	\$0	\$0		\$0
6	Newcomb turnout	0	1	0	10.11	\$1,218,449	\$7,215	\$5,550	\$22,200	\$0	\$66,600		\$1,320,014
7	Sheepsprings turnout	0	1	1	5.85	\$705,324	\$84,915	\$11,100	\$44,400	\$6,660	\$133,200		\$985,599
8	Naschitti turnout	0	1	1	17.82	\$2,146,815	\$84,915	\$11,100	\$44,400	\$6,660	\$133,200		\$2,427,090
9	Tohatchi tu <del>r</del> nout	0	1	1	6.45	\$777,077	\$84,915	\$11,100	\$44,400	\$6,660	\$133,200		\$1,057,352
10	Coyote Canyon Junction	0	0	0	3.08	\$371,118	\$0	\$0	\$0	\$0	\$0		\$371,118
11	Twin Lakes turnout	0	1	1	6.16	\$741,736	\$84,915	\$11,100	\$44,400	\$6,660	\$133,200		\$1,022,011
12	Ya-ta-hey Junction	0	0	1		\$0	\$77,700	\$5,550	\$22,200	\$6,660	\$66,600		\$178,710
13	Gallup Junction	0	1	0		\$0	\$7,215	\$5,550	\$22,200	\$0	\$66,600		\$101,565
14	Navajo Chapters	0	5	0		\$0	\$36,075	\$27,750	\$111,000	<b>\$</b> 0	\$333,000		\$507,825
10.1	Coyote Canyon turnout	0	1	1		\$0	\$84,915	\$11,100	\$44,400	\$6,660	\$133,200		\$280,275
10.2	Standing Rock tu <del>r</del> nout	0	1	1		\$0	\$84,915	\$11,100	\$44,400	\$6,660	\$133,200		\$280,275
10.3	Dalton Pass turnout	0	1	1		\$0	\$84,915	\$11,100	\$44,400	\$6,660	\$133,200		\$280,275
12.1	Rock Springs turnout	0	1	1		\$0	\$84,915	\$11,100	\$44,400	\$6,660	\$133,200		\$280,275
12.2	Window Rock turnout	0	1	1	5.82	\$700,659	\$84,915	\$11,100	\$44,400	\$6,660	\$133,200	\$333,000	\$1,313,934
Cutter <b>E</b>	Branch												
Reach	End												
21	WTP	1	0	0		\$0	\$77,700	\$0	\$0	\$0	\$0	······································	\$77,700
22	Huerfano turnout	0	1	3	42.05	\$5,066,012	\$240,315	\$22,200	\$88,800	\$19,980	\$266,400	\$1,110,000	\$6.813,707
23	Nageezi turnout	0	1	1		\$0	\$84,915	\$11.100	\$44,400	\$6.660	\$133,200	m - y y	\$280.275
24	Jicarilla turnout	0	0	1	19.38	\$2,334,350	\$77,700	\$5,550	\$22,200	\$6,660	\$66,600		\$2,513,060
25	Counselor turnout	0	1	1	3.28	\$394,655	\$84,915	\$11,100	\$44,400	\$6,660	\$133,200		\$674,930
26	Torreon turnout	0	1	0	0.00	\$0	\$7,215	\$5,550	\$22,200	\$0	\$66,600		\$101,565
	Total	2	21	20	120.00	\$14,456,196	\$1,860,915	\$227,550	\$910,200	\$133,200	\$2,730,600	\$1,443,000	\$21,761,661

#### Cost per unit

\$120,468
\$77,700
\$77,700
\$7,215
\$5,550
\$333,000
\$22,200
\$6,660
\$1,110,000
\$66,600

Table B7

Navajo - Gallup Water Supply Project

San Juan River PNM Alternative - 2040

#### Allocation of Dam, Diversion Structure, Wells and Water Treatment Costs by Reach Jan-05 \$

	148-14-14 - V		Joi	int Costs	5	
			······································	·····	Water	
San Jua	n Branch		Diversion		Treatment	
Reach	End	Dams	Structures	Wells	Plants	Total
1	Water Treatment Plant (WTP)		\$1,778,494		\$38,462,061	\$40,240,555
2	NAPI turnout					\$0
3	Shiprock Junction					\$0
4	Sanostee turnout					<b>\$</b> 0
5	Burnham Junction					\$0
6	Newcomb turnout					\$0
7	Sheepsprings turnout					<b>\$</b> 0
8	Naschitti turnout					\$0
9	Tohatchi turnout					\$0
10	Coyote Canyon Junction					\$0
11	Twin Lakes turnout					\$0
12	Ya-ta-hey Junction					\$0
13	Gallup Junction					\$0
14	Navajo Chapters					\$0
10.1	Coyote Canyon turnout					\$0
10.2	Standing Rock turnout					\$0
10.3	Dalton Pass turnout					\$0
12.1	Rock Springs turnout					\$0
12.2	Window Rock turnout					\$0
Cutter 1	Branch					
Reach	End					
21	WTP				\$8,079,720	\$8,079,720
22	Huerfano turnout					\$0
23	Nageezi turnout					\$0
24	Jicarilla turnout					\$0
25	Counselor turnout					\$0
26	Torreon turnout					\$0
	Total	\$	0 \$1,778,494	\$	0 \$46,541,781	\$48,320,275

# Table B8 Navajo - Gallup Water Supply Project San Juan River PNM Alternative - 2020 Allocation of Environmental Mitiagation, Cultural Resources and Right-of-Way Costs

Jan-05 \$

	Main N	avajo-Gallu	p Pipeline I	Project	Gallup F	System			
	Navajo	Gallup	Jicarilla	Total	Navajo	Gallup	Jicarilla	Total	Total
Total Field Costs	\$381,500,000	\$69,300,000	\$18,400,000	\$469,200,000	\$11,600,000	\$18,600,000	\$0	\$30,200,000	\$499,400,000
% Distribution of Field Costs	76.39%	13.88%	3.68%	93.95%	2.32%	3.72%	0.00%	6.05%	100.00%
Environmental Mitigation Costs	\$3,055,667	\$555,066	<b>\$1</b> 47 <b>,</b> 377	\$3,758,110	\$92,911	\$148,979	\$0	\$241,890	\$4,000,000
Cultural Resources Costs	\$8,403,084	\$1,526,432	\$405,286	\$10,334,802	\$255,507	\$409,692	<b>\$</b> 0	\$665,198	\$11,000,000
Right-of-Way Costs	\$5,347,417	\$971,366	\$257,909	\$6,576,692	\$162,595	\$260,713	<b>\$</b> 0	\$423,308	\$7,000,000
Total	\$16,806,167	\$3,052,863	\$810,573	\$20,669,604	\$511,013	\$819,383	\$0	\$1,330,396	\$22,000,000
Total (rounded)	\$16,810,000	\$3,050,000	\$810,000	\$20,670,000	\$510,000	\$820,000	\$0	\$1,330,000	\$22,000,000

Notes: Environmental mitigation costs estimated at \$4,000,000 (Jan. 05 \$) and allocated between systems and among users by share of field costs.

Cultural resources costs estimated at \$11,000,000 (Jan. 05 \$) and allocated between systems and among users by share of field costs. Right-of-way costs consist of land purchased from private parties for the water treatment plants, cost of relocating Navajo families who live in the pipeline route, and administration costs, totalling \$7,000,000 (Jan. 05 \$). These costs are allocated between systems and among users by share of field costs. It is assumed that both the Navajo Nation and the City of Gallup will contribute any other land needed for their respective systems.

Environmental mitigation costs, cultural resource costs and right-of-way costs include allowances for contingencies, non-contract costs and taxes.

#### Table B9

Navajo - Gallup Water Supply Project San Juan River PNM Alternative - 2040

#### **Interest During Construction**

5.375% Discount Rate

Jan-05 \$

CONSTRUCTION SCHEDULE Costs in millions															
Scenario 1 - \$60 million/yea	r Schedul	e					Year								
Construction phase	1	2	3	4	5	6	7	8	9	10	11	12	13	14	Total
NGWSP Project	\$3.92	\$14.03	0.28												\$18.23
Cutter Lateral	\$7.89	\$4.04	\$38.84	\$32.58	\$11.92										\$95.27
Twin Lakes/ Window Rock	\$0.86	\$0.23				\$32.12	\$10.63								\$43.84
Cutter Power	\$1.37	\$0.89	\$2.73	\$8.00	\$8.00										\$20.99
San Juan Power	\$0.82	\$1.62	\$0.01				\$4.50	\$15.73							\$22.68
Gallup Regional System	\$2.56	\$3.33	\$1.96		\$32.62	\$27.90									\$68.37
San Juan Lateral		\$8.43	\$15.53	\$12.16					\$35.00	\$60.00	\$60.00	\$59.94	\$50.00		\$301.06
San Juan Pumping Plant		\$3.89	\$1.27				\$19.67	\$23.00							\$47.83
San Juan Water Treatment Plant	<b>\$</b> 5.95	\$2.76					\$25.00	\$22.04	\$25.00						\$80.75
Cutter Water Treatment Plant	\$1.24	\$0.51		\$7.00	<b>\$</b> 7.46										\$16.21
TOTAL Allocated Spending	\$24.61	\$39.73	\$60.62	\$59.74	\$60.00	\$60.02	\$59.80	\$60.77	\$60.00	\$60.00	\$60.00	\$59.94	\$50.00	<b>\$</b> 0.00	\$715.23
Percent Distribution	3.44%	5.55%	8.48%	8.35%	8.39%	8.39%	8.36%	8.50%	8.39%	8.39%	8.39%	8.38%	6.99%	0.00%	100.00%
Overall Spending	\$24.61	\$39.72	\$60.61	\$59.73	\$59.99	\$60.01	\$59.79	\$60.76	\$59.99	\$59.99	\$59.99	\$59.93	\$49.99	\$0.00	\$715.10
Interest During Construction	\$22.74	\$32.81	\$44.41	\$38.49	\$33.63	\$28.86	\$24.24	\$20.27	\$15.94	\$12.06	\$8.39	\$4.90	\$1.33	<b>\$0.00</b>	\$288.06
to January 1 of year 14															

Note: The construction schedule assumes that annual appropriations will be indexed to keep in step with construction cost trends.

# Table C1 Navajo - Gallup Water Supply Project San Juan River PNM Alternative - 2040 Allocation of Gallup Regional System Capital Costs Jan-05 \$

	Total	Joint	Allocation Factors		Allocated J	oint Costs	Total	Costs	
Category	Cost	Cost	Gallup	Navajo	Gallup	Navajo	Gallup	Navajo	
Excavation, common	\$406,800	\$406,800	0.6170	0.3830	\$251,012	\$155,788	\$251,012	\$155,788	
Excavation, rock	\$240,000	\$240,000	0.6170	0.3830	\$148,090	\$91,910	\$148,090	\$91,910	
Backfill	\$306,750	\$306,750	0.6170	0.3830	\$189,277	\$117,473	\$189,277	\$117,473	
Soil Cement Embedment	\$1,398,000	\$1,398,000	0.6170	0.3830	\$862,623	\$535,377	\$862,623	\$535,377	
Pipeline	\$6,891,812	\$6,891,812	0.6170	0.3830	\$4,252,529	\$2,639,283	\$4,252,529	\$2,639,283	
Crossings and borings	\$1,000,000	\$1,000,000	0.6170	0.3830	\$617,041	\$382,959	\$617,041	\$382,959	
Water Storage Tanks	\$8,650,000	\$8,650,000	0.6170	0.3830	\$5,337,403	\$3,312,597	\$5,337,403	\$3,312,597	
Pumping Plants	\$1,230,000	\$1,230,000	0.6170	0.3830	\$758,960	\$471,040	\$758,960	\$471,040	
Valve & Metering Sta.	\$637,100	\$637,100	0.6170	0.3830	\$393,117	\$243,983	\$393,117	\$243,983	
Surge Control	\$150,000	\$150,000	0.6170	0.3830	\$92,556	\$57,444	\$92,556	\$57,444	
Subtotal	\$20,910,462	\$20,910,462			\$12,902,608	\$8,007,854	\$12,902,608	\$8,007,854	
Mobilization @5%	\$1,045,523						\$645,130	\$400,393	
Subtotal	\$21,955,985						\$13,547,738	\$8,408,247	
Unlisted @10%	\$2,195,599						\$1,354,774	\$840,825	
Subtotal	\$24,151,584						\$14,902,512	\$9,249,072	
Contingency @25%	\$6,037,896						\$3,725,628	\$2,312,268	
Total Field Cost	\$30,189,480						\$18,628,140	\$11,561,340	
Non-Contract Costs @30%	\$9,056,844						\$5,588,442	\$3,468,402	
Total Construction Costs	\$39,246,323						\$24,216,582	\$15,029,742	
Taxes @6% of Field Cost	\$1,811,369						\$1,117,688	\$693,680	
Total with Taxes	\$41,057,692						\$25,334,270	\$15,723,422	
Rounded Total	\$41,100,000						\$25,300,000	\$15,700,000	

Note: The costs in this table include only the cost for the Gallup Regional System. The costs for the main water supply pipeline are shown in Table B1. The costs also exclude the environmental mitigation, cultural resources, right-of-way acquisition and interest during construction costs, which are shown in Table 1.

# Table C2 Navajo - Gallup Water Supply Project San Juan River PNM Alternative - 2040 Allocation of Gallup Regional System O,M & R Costs Jan-05 \$

				,,			A.J	Present Value @	5.375%	
	Annual	Allocation	n Factors		Allocated Ar	inual Cost		Allocated I	Present Value (	Cost
	Cost	Gallup	Navajo		Gallup	Navajo		Gallup	Navajo	Total
CRSP Rates	\$419,000	0.6170	0.3830		\$258,540	\$160,460		\$4,459,078	\$2,767,475	\$7,226,553
				rounded	\$259,000	\$160,000	rounded	\$4,459,000	\$2,767,000	\$7,227,000
NTUA Rate	\$473,000	0.6170	0.3830		\$291,860	<b>\$181,14</b> 0		\$5,033,756	\$3,124,143	\$8,157,899
				rounded	\$292,000	\$181,000	rounded	\$5,034,000	\$3,124,000	\$8,158,000

#### Table C3 - Scenario 1 \$60 million/yr Construction Schedule Navajo - Gallup Water Supply Project San Juan River PNM Alternative - 2040 Cost of Water to City of Gallup Jan-05 \$

		Cost to	PV @
Event	Year	Gallup \$/af	5.375%
	2006	\$36	\$80
	2007	\$38	\$80
Construction Begins	2008	\$41	\$80
	2009	\$43	\$80
	2010	\$45	\$80
	2011	\$47	\$80
	2012	\$50	\$80
	2013	\$53	\$80
	2014	\$55	\$80
	2015	\$58	\$80
	2016	\$62	\$80
	2017	305 CO	38U 690
	2018	308 #70	20U 600
	2019	\$72 #77	\$0U \$00
Project Completion	2020	370 500	\$00 \$00
Full Gallup Water Use	2021	38U 600	⊉0U \$C74
	2022	38U #00	\$70 \$70
	2023	300 500	₽/∠ \$\$,0
	2024	980 600	\$00 \$60
	2025	300 600	<b>ゆい</b> つ なんつ
	2026	<u>ቅ</u> ጽቦ ፍደር	⊉0∠ €50
1	2027	38U	000 000
	2028	\$8U	355 1
	2029	38U	\$00 850
	2030	\$80 \$20	\$D 10
	2031	\$8U	₽4/ #4⊑
	2032	\$8U	\$45 \$42
	2033	\$8U	\$4.5 # 41
	2034	\$8U	\$41 \$20
	2035	\$80	\$38
	2036	\$80	\$30 \$35
	2037	\$80 \$80	\$35 #22
	2038	\$80	\$33 #21
	2039	38U	\$30 \$30
	2040	\$8U	300 100
	2041	38U	\$≱28 €07
	2042	\$8U	\$27 605
	2043	38U	ΦZΟ €24
	2044	38U 600	₽Z4 €03
	2045	\$8U	⊅∠ <i>⊃</i> €22
	2046	\$8U	₽ZZ €21
	2047	400 400	
	2048	40U 600	
	2049	480 660	ወ10 ፍ10
	2050	400 400	
	2051	40U 400	ም1/ ፍ1ራ
	2052	40U 400	ወ10 ፍ15
	2000	#0U \$20	φ13 \$14
	2024	40U 400	
	2000	400 400	ወደጋ ፍ1 ዓ
	2050	40V 40V	ψ13 \$17
	2057	40V ¢20	₩12 \$12
	2030	40V 420	₩12 \$11
	2039	40U \$20	Ψ⊥1 \$10
	2000	40U	⊕10 \$10
	2001	40U \$20	#10 #10
	2002	40U \$20	<i>ወ 2</i> ፍር
	2003	400 400	ው የ
	2004	400 400	\$C0 ₽0
	2005	\$00 \$00	40 40
	2000	480 480	ନ୍ଦ ୧୮7
	2007		#/
		l'otal per acre-toot	\$2,034
		Total for 7500 af	\$19,758,536
Present Values as of	2021		

Present Values as of

Note: The City of Gallup has not yet reached an agreement with the Jicarilla Apache Nation on the terms of a long-term water lease. For purposes of this report we have assumed that the price will be \$80 per acre-foot (in 2005\$), beginning when the City begins taking water in the year 2021. We also assume that prior to that time the City will pay an annual option fee equivalent in present value to the price for water in 2021. The City and the Jicarilla Nation may agree on terms very different from these.

#### Table D1- Scenario 1 - \$60 million/year Construction Schedule

Navajo - Gallup Water Supply Project

San Juan River PNM Alternative - 2040

Summary of Annual O,M&R Charges by User

Project Completion In 2021

Jan-05 \$

CRSP Po	wer Rate													
	Year	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Navajo	Fixed	\$0	\$0	\$0	\$1,670,058	\$1,670,058	\$2,092,596	\$2,092,596	\$2,092,596	\$2,092,596	\$2,092,596	\$2,092,596	\$5,301,442	\$5,301,442
	Variable	\$0	\$0	\$0	\$152,911	\$156,683	\$193,027	\$196,815	\$200,696	\$204,673	\$208,749	\$212,926	\$1,630,341	\$1,670,618
	Total	\$0	\$0	\$0	\$1,822,969	\$1,826,741	\$2,285,623	\$2,289,411	\$2,293,292	\$2,297,269	\$2,301,345	\$2,305,522	\$6,931,783	\$6,972,060
Gallup	Fixed	\$0	\$0	\$0	<b>\$</b> 0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$998,668	\$998,668
	Variable	\$0	\$0	<b>\$</b> 0	\$0	\$0	\$0	\$0	\$0	<b>\$</b> 0	\$0	\$0	\$724,781	\$724,781
	Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,723,449	\$1,723,449
Jicarilla	Fixed	\$0	\$0	\$0	\$538,378	\$538.378	\$538.378	\$538.378	\$538.378	\$538 378	\$538 378	\$538 378	\$538 378	\$538 378
Ĩ	Variable	\$0	\$0	\$0	\$94,284	\$94,284	\$94,284	\$94,284	\$94,284	\$94,284	\$94 284	\$94 284	\$101 785	\$101 785
	Total	\$0	\$0	\$0	\$632,662	\$632,662	\$632,662	\$632,662	\$632,662	\$632,662	\$632,662	\$632,662	\$640,163	\$640,163
Total	Fixed	<b>\$</b> 0	\$0	\$0	\$2,208,436	\$2,208,436	\$2 630 974	\$2 630 974	\$2 630 974	\$2 630 974	\$2 630 974	\$2 630 974	\$6 838 488	\$6 838 488
	Variable	\$0	\$0	\$0	\$247 195	\$250,967	\$287 311	\$291.099	\$294.980	\$298.957	\$303 033	\$307 210	\$2,456,907	\$2 407 184
	Total	\$0	<u> </u>	\$0	\$2,455,631	\$2,459,403	\$2,918,285	\$2 922 073	\$2 925 954	\$2 929 931	\$2,934,007	\$2 938 184	\$9,295,305	\$9 335 672
	Rounded	<b>\$</b> 0	\$0	\$0	\$2,456,000	\$2,459,000	\$2,918,000	\$2,922,000	\$2,926,000	\$2,930,000	\$2,934,000	\$2,938,000	\$9,295,000	\$9,336,000
	ower Rate													
	Year	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Navaio	Fixed	\$0	\$0	\$0	\$1.670.058	\$1.670.058	\$2,092,596	\$2,092,596	\$2,092,596	\$2,092,596	\$2,002,506	\$2,002,506	\$5 301 442	\$5 301 442
	Variable	\$0	\$0	\$0 \$0	\$338.397	\$346,730	\$451 326	\$459 562	\$468.002	\$476.651	\$485 514	\$494 597	\$3,650,792	\$3 740 872
	Total	\$0	\$0	\$0	\$2,008,455	\$2,016,788	\$2,543,922	\$2,552,158	\$2,560,597	\$2,569,246	\$2,578,110	\$2,587,193	\$8,952,234	\$9,042,314
Gallup	Fixed	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$008 668	\$998.668
P	Variable	\$0	\$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$1 673 639	\$1 673 639
	Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0	\$2,672,307	\$2,672,307
licarilla	Fired	\$0	\$0	¢0	\$520 270	\$520 270	¢=20 270	¢=20.270	e=20 270	¢=20.270	£520 270	¢520.270	¢520.270	¢520.270
Jicaima	Variable	0⊈ ©⊉0	\$0 \$	\$0 \$0	\$336,376	\$336,376	\$336,376	\$336,376	\$330,370 \$202.220	\$336,376	\$336,376	\$336,376	\$336,376 \$200,726	\$330,370
	Total	\$0 \$0	\$0 \$0	\$0 \$0	\$740,614	\$740,614	\$740,614	\$740,614	\$202,236	\$202,236	\$202,236	\$202,236	\$209,736	\$209,736
		**							- ,	. ,	- ,	. ,	- ,	
Total	Fixed	\$0	\$0 \$0	\$0	\$2,208,436	\$2,208,436	\$2,630,974	\$2,630,974	\$2,630,974	\$2,630,974	\$2,630,974	\$2,630,974	\$6,838,488	\$6,838,488
	Variable	\$0	\$0	\$0	\$540,632	\$548,965	\$653,562	\$661,797	\$670,237	\$678,886	\$687,750	\$696,833	\$5,534,167	\$5,624,247
	lotal	\$0 \$0	<b>\$</b> 0	\$0	\$2,749,068	\$2,757,402	\$3,284,536	\$3,292,771	\$3,301,211	\$3,309,860	\$3,318,723	\$3,327,807	\$12,372,655	\$12,462,735
	Rounded	\$0	\$0	\$0	\$2,749,000	\$2,757,000	\$3,285,000	\$3,293,000	\$3,301,000	\$3,310,000	\$3,319,000	\$3,328,000	\$12,373,000	\$12,463,000

#### Table D1- Scenario 1 - \$60 million/year Construction Schedule Navajo - Gallup Water Supply Project San Juan River PNM Alternative - 2040

Summary of Annual O,M&R Charges by User

Project Completion In 2021

page 2

2023	2024	2025	2030	2035	2040	2045	2050	2055	2060	2065-70
\$5,301,442	\$5,301,442	\$5,301,442	\$5,301,442	\$5,301,442	\$5,301,442	\$5,301,442	\$5,301,442	\$5,301,442	\$5,301,442	\$5,301,442
\$1,711,894	\$1,754,193	\$1,797,542	\$2,030,954	\$2,400,803	\$2,592,986	\$2,592,986	\$2,592,986	\$2,592,986	\$2,592,986	\$2,592,986
\$7,013,336	\$7,055,635	\$7,098,984	\$7,332,396	\$7,702,245	\$7,894,428	\$7,894,428	\$7,894,428	\$7,894,428	\$7,894,428	\$7,894,428
\$998,668	\$998,668	\$998,668	\$998,668	\$998,668	\$998,668	\$998,668	\$998,668	\$998,668	\$998,668	\$998,668
\$724,781	\$724,781	\$724,781	\$724,781	\$724,781	\$724,781	\$724,781	\$724,781	\$724,781	\$724,781	\$724,781
\$1,723,449	\$1,723,449	\$1,723,449	\$1,723,449	\$1,723,449	\$1,723,449	\$1,723,449	\$1,723,449	\$1,723,449	\$1,723,449	\$1,723,449
\$538,378	\$538,378	\$538,378	\$538,378	\$538,378	\$538,378	\$538,378	\$538,378	\$538,378	\$538,378	\$538,378
\$101,785	\$101,785	\$101,785	\$101,785	\$101,785	\$101,785	\$101,785	\$101,785	\$101,785	\$101,785	\$101,785
\$640,163	\$640,163	\$640,163	\$640,163	\$640,163	\$640,163	\$640,163	\$640,163	\$640,163	\$640,163	\$640,163
\$6,838,488	\$6,838,488	\$6,838,488	\$6,838,488	\$6,838,488	\$6,838,488	\$6,838,488	\$6,838,488	\$6,838,488	\$6,838,488	\$6,838,488
\$2,538,460	\$2,580,759	\$2,624,108	\$2,857,520	\$3,227,369	\$3,419,552	\$3,419,552	\$3,419,552	\$3,419,552	\$3,419,552	\$3,419,552
\$9,376,948	\$9,419,247	\$9,462,596	\$9,696,008	\$10,065,857	\$10,258,040	\$10,258,040	\$10,258,040	\$10,258,040	\$10,258,040	\$10,258,040
\$9,377,000	\$9,419,000	\$9,463,000	\$9,696,000	\$10,066,000	\$10,258,000	\$10,258,000	\$10,258,000	\$10,258,000	\$10,258,000	\$10,258,000
2023	2024	2025	2030	2035	2040	2045	2050	2055	2060	2065-70
2023 \$5,301,442	2024 \$5,301,442	2025 \$5,301,442	2030 \$5,301,442	2035 \$5,301,442	2040 \$5,301,442	2045 \$5,301,442	2050 \$5,301,442	2055 \$5,301,442	2060 \$5,301,442	2065-70 \$5,301,442
2023 \$5,301,442 \$3,833,186	2024 \$5,301,442 \$3,927,790	2025 \$5,301,442 \$4,024,740	2030 \$5,301,442 \$4,546,769	2035 \$5,301,442 \$5,450,388	2040 \$5,301,442 \$5,803,759	2045 \$5,301,442 \$5,803,759	2050 \$5,301,442 \$5,803,759	2055 \$5,301,442 \$5,803,759	2060 \$5,301,442 \$5,803,759	2065-70 \$5,301,442 \$5,803,759
2023 \$5,301,442 \$3,833,186 \$9,134,628	2024 \$5,301,442 \$3,927,790 \$9,229,232	2025 \$5,301,442 \$4,024,740 \$9,326,181	2030 \$5,301,442 \$4,546,769 \$9,848,210	2035 \$5,301,442 \$5,450,388 \$10,751,829	2040 \$5,301,442 \$5,803,759 \$11,105,201	2045 \$5,301,442 \$5,803,759 \$11,105,201	2050 \$5,301,442 \$5,803,759 \$11,105,201	2055 \$5,301,442 \$5,803,759 \$11,105,201	2060 \$5,301,442 \$5,803,759 \$11,105,201	2065-70 \$5,301,442 \$5,803,759 \$11,105,201
2023 \$5,301,442 \$3,833,186 \$9,134,628	2024 \$5,301,442 \$3,927,790 \$9,229,232	2025 \$5,301,442 \$4,024,740 \$9,326,181	2030 \$5,301,442 \$4,546,769 \$9,848,210	2035 \$5,301,442 \$5,450,388 \$10,751,829	2040 \$5,301,442 \$5,803,759 \$11,105,201	2045 \$5,301,442 \$5,803,759 \$11,105,201	2050 \$5,301,442 \$5,803,759 \$11,105,201	2055 \$5,301,442 \$5,803,759 \$11,105,201	2060 \$5,301,442 \$5,803,759 \$11,105,201	2065-70 \$5,301,442 \$5,803,759 \$11,105,201
2023 \$5,301,442 \$3,833,186 \$9,134,628 \$998,668	2024 \$5,301,442 \$3,927,790 \$9,229,232 \$998,668	2025 \$5,301,442 \$4,024,740 \$9,326,181 \$998,668	2030 \$5,301,442 \$4,546,769 \$9,848,210 \$998,668	2035 \$5,301,442 \$5,450,388 \$10,751,829 \$998,668	2040 \$5,301,442 \$5,803,759 \$11,105,201 \$998,668	2045 \$5,301,442 \$5,803,759 \$11,105,201 \$998,668	2050 \$5,301,442 \$5,803,759 \$11,105,201 \$998,668	2055 \$5,301,442 \$5,803,759 \$11,105,201 \$998,668	2060 \$5,301,442 \$5,803,759 \$11,105,201 \$998,668	2065-70 \$5,301,442 \$5,803,759 \$11,105,201 \$998,668
2023 \$5,301,442 \$3,833,186 \$9,134,628 \$998,668 \$1,673,639	2024 \$5,301,442 \$3,927,790 \$9,229,232 \$998,668 \$1,673,639	2025 \$5,301,442 \$4,024,740 \$9,326,181 \$998,668 \$1,673,639	2030 \$5,301,442 \$4,546,769 \$9,848,210 \$998,668 \$1,673,639	2035 \$5,301,442 \$5,450,388 \$10,751,829 \$998,668 \$1,673,639	2040 \$5,301,442 \$5,803,759 \$11,105,201 \$998,668 \$1,673,639	2045 \$5,301,442 \$5,803,759 \$11,105,201 \$998,668 \$1,673,639	2050 \$5,301,442 \$5,803,759 \$11,105,201 \$998,668 \$1,673,639	2055 \$5,301,442 \$5,803,759 \$11,105,201 \$998,668 \$1,673,639	2060 \$5,301,442 \$5,803,759 \$11,105,201 \$998,668 \$1,673,639	2065-70 \$5,301,442 \$5,803,759 \$11,105,201 \$998,668 \$1,673,639
2023 \$5,301,442 \$3,833,186 \$9,134,628 \$998,668 \$1,673,639 \$2,672,307	2024 \$5,301,442 \$3,927,790 \$9,229,232 \$998,668 \$1,673,639 \$2,672,307	2025 \$5,301,442 \$4,024,740 \$9,326,181 \$998,668 \$1,673,639 \$2,672,307	2030 \$5,301,442 \$4,546,769 \$9,848,210 \$998,668 \$1,673,639 \$2,672,307	2035 \$5,301,442 \$5,450,388 \$10,751,829 \$998,668 \$1,673,639 \$2,672,307	2040 \$5,301,442 \$5,803,759 \$11,105,201 \$998,668 \$1,673,639 \$2,672,307	2045 \$5,301,442 \$5,803,759 \$11,105,201 \$998,668 \$1,673,639 \$2,672,307	2050 \$5,301,442 \$5,803,759 \$11,105,201 \$998,668 \$1,673,639 \$2,672,307	2055 \$5,301,442 \$5,803,759 \$11,105,201 \$998,668 \$1,673,639 \$2,672,307	2060 \$5,301,442 \$5,803,759 \$11,105,201 \$998,668 \$1,673,639 \$2,672,307	2065-70 \$5,301,442 \$5,803,759 \$11,105,201 \$998,668 \$1,673,639 \$2,672,307
2023 \$5,301,442 \$3,833,186 \$9,134,628 \$998,668 \$1,673,639 \$2,672,307	2024 \$5,301,442 \$3,927,790 \$9,229,232 \$998,668 \$1,673,639 \$2,672,307	2025 \$5,301,442 \$4,024,740 \$9,326,181 \$998,668 \$1,673,639 \$2,672,307	2030 \$5,301,442 \$4,546,769 \$9,848,210 \$998,668 \$1,673,639 \$2,672,307	2035 \$5,301,442 \$5,450,388 \$10,751,829 \$998,668 \$1,673,639 \$2,672,307	2040 \$5,301,442 \$5,803,759 \$11,105,201 \$998,668 \$1,673,639 \$2,672,307	2045 \$5,301,442 \$5,803,759 \$11,105,201 \$998,668 \$1,673,639 \$2,672,307	2050 \$5,301,442 \$5,803,759 \$11,105,201 \$998,668 \$1,673,639 \$2,672,307	2055 \$5,301,442 \$5,803,759 \$11,105,201 \$998,668 \$1,673,639 \$2,672,307	2060 \$5,301,442 \$5,803,759 \$11,105,201 \$998,668 \$1,673,639 \$2,672,307	2065-70 \$5,301,442 \$5,803,759 \$11,105,201 \$998,668 \$1,673,639 \$2,672,307
2023 \$5,301,442 \$3,833,186 \$9,134,628 \$998,668 \$1,673,639 \$2,672,307 \$538,378	2024 \$5,301,442 \$3,927,790 \$9,229,232 \$998,668 \$1,673,639 \$2,672,307 \$538,378	2025 \$5,301,442 \$4,024,740 \$9,326,181 \$998,668 \$1,673,639 \$2,672,307 \$538,378	2030 \$5,301,442 \$4,546,769 \$9,848,210 \$998,668 \$1,673,639 \$2,672,307 \$538,378	2035 \$5,301,442 \$5,450,388 \$10,751,829 \$998,668 \$1,673,639 \$2,672,307 \$538,378	2040 \$5,301,442 \$5,803,759 \$11,105,201 \$998,668 \$1,673,639 \$2,672,307 \$538,378	2045 \$5,301,442 \$5,803,759 \$11,105,201 \$998,668 \$1,673,639 \$2,672,307 \$538,378	2050 \$5,301,442 \$5,803,759 \$11,105,201 \$998,668 \$1,673,639 \$2,672,307 \$538,378	2055 \$5,301,442 \$5,803,759 \$11,105,201 \$998,668 \$1,673,639 \$2,672,307 \$538,378	2060 \$5,301,442 \$5,803,759 \$11,105,201 \$998,668 \$1,673,639 \$2,672,307 \$538,378	2065-70 \$5,301,442 \$5,803,759 \$11,105,201 \$998,668 \$1,673,639 \$2,672,307 \$538,378
2023 \$5,301,442 \$3,833,186 \$9,134,628 \$998,668 \$1,673,639 \$2,672,307 \$538,378 \$209,736	2024 \$5,301,442 \$3,927,790 \$9,229,232 \$998,668 \$1,673,639 \$2,672,307 \$538,378 \$209,736	2025 \$5,301,442 \$4,024,740 \$9,326,181 \$998,668 \$1,673,639 \$2,672,307 \$538,378 \$209,736	2030 \$5,301,442 \$4,546,769 \$9,848,210 \$998,668 \$1,673,639 \$2,672,307 \$538,378 \$209,736	2035 \$5,301,442 \$5,450,388 \$10,751,829 \$998,668 \$1,673,639 \$2,672,307 \$538,378 \$209,736	2040 \$5,301,442 \$5,803,759 \$11,105,201 \$998,668 \$1,673,639 \$2,672,307 \$538,378 \$209,736	2045 \$5,301,442 \$5,803,759 \$11,105,201 \$998,668 \$1,673,639 \$2,672,307 \$538,378 \$209,736	2050 \$5,301,442 \$5,803,759 \$11,105,201 \$998,668 \$1,673,639 \$2,672,307 \$538,378 \$209,736	2055 \$5,301,442 \$5,803,759 \$11,105,201 \$998,668 \$1,673,639 \$2,672,307 \$538,378 \$209,736	2060 \$5,301,442 \$5,803,759 \$11,105,201 \$998,668 \$1,673,639 \$2,672,307 \$538,378 \$209,736	2065-70 \$5,301,442 \$5,803,759 \$11,105,201 \$998,668 \$1,673,639 \$2,672,307 \$538,378 \$209,736
2023 \$5,301,442 \$3,833,186 \$9,134,628 \$998,668 \$1,673,639 \$2,672,307 \$538,378 \$209,736 \$748,114	2024 \$5,301,442 \$3,927,790 \$9,229,232 \$998,668 \$1,673,639 \$2,672,307 \$538,378 \$209,736 \$748,114	2025 \$5,301,442 \$4,024,740 \$9,326,181 \$998,668 \$1,673,639 \$2,672,307 \$538,378 \$209,736 \$748,114	2030 \$5,301,442 \$4,546,769 \$9,848,210 \$998,668 \$1,673,639 \$2,672,307 \$538,378 \$209,736 \$748,114	2035 \$5,301,442 \$5,450,388 \$10,751,829 \$998,668 \$1,673,639 \$2,672,307 \$538,378 \$209,736 \$748,114	2040 \$5,301,442 \$5,803,759 \$11,105,201 \$998,668 \$1,673,639 \$2,672,307 \$538,378 \$209,736 \$748,114	2045 \$5,301,442 \$5,803,759 \$11,105,201 \$998,668 \$1,673,639 \$2,672,307 \$538,378 \$209,736 \$748,114	2050 \$5,301,442 \$5,803,759 \$11,105,201 \$998,668 \$1,673,639 \$2,672,307 \$538,378 \$209,736 \$748,114	2055 \$5,301,442 \$5,803,759 \$11,105,201 \$998,668 \$1,673,639 \$2,672,307 \$538,378 \$209,736 \$748,114	2060 \$5,301,442 \$5,803,759 \$11,105,201 \$998,668 \$1,673,639 \$2,672,307 \$538,378 \$209,736 \$748,114	2065-70 \$5,301,442 \$5,803,759 \$11,105,201 \$998,668 \$1,673,639 \$2,672,307 \$538,378 \$209,736 \$748,114
2023 \$5,301,442 \$3,833,186 \$9,134,628 \$998,668 \$1,673,639 \$2,672,307 \$538,378 \$209,736 \$748,114	2024 \$5,301,442 \$3,927,790 \$9,229,232 \$998,668 \$1,673,639 \$2,672,307 \$538,378 \$209,736 \$748,114	2025 \$5,301,442 \$4,024,740 \$9,326,181 \$998,668 \$1,673,639 \$2,672,307 \$538,378 \$209,736 \$748,114	2030 \$5,301,442 \$4,546,769 \$9,848,210 \$998,668 \$1,673,639 \$2,672,307 \$538,378 \$209,736 \$748,114	2035 \$5,301,442 \$5,450,388 \$10,751,829 \$998,668 \$1,673,639 \$2,672,307 \$538,378 \$209,736 \$748,114	2040 \$5,301,442 \$5,803,759 \$11,105,201 \$998,668 \$1,673,639 \$2,672,307 \$538,378 \$209,736 \$748,114	2045 \$5,301,442 \$5,803,759 \$11,105,201 \$998,668 \$1,673,639 \$2,672,307 \$538,378 \$209,736 \$748,114	2050 \$5,301,442 \$5,803,759 \$11,105,201 \$998,668 \$1,673,639 \$2,672,307 \$538,378 \$209,736 \$748,114	2055 \$5,301,442 \$5,803,759 \$11,105,201 \$998,668 \$1,673,639 \$2,672,307 \$538,378 \$209,736 \$748,114	2060 \$5,301,442 \$5,803,759 \$11,105,201 \$998,668 \$1,673,639 \$2,672,307 \$538,378 \$209,736 \$748,114	2065-70 \$5,301,442 \$5,803,759 \$11,105,201 \$998,668 \$1,673,639 \$2,672,307 \$538,378 \$209,736 \$748,114
2023 \$5,301,442 \$3,833,186 \$9,134,628 \$998,668 \$1,673,639 \$2,672,307 \$538,378 \$209,736 \$748,114 \$6,838,488	2024 \$5,301,442 \$3,927,790 \$9,229,232 \$998,668 \$1,673,639 \$2,672,307 \$538,378 \$209,736 \$748,114 \$6,838,488	2025 \$5,301,442 \$4,024,740 \$9,326,181 \$998,668 \$1,673,639 \$2,672,307 \$538,378 \$209,736 \$748,114 \$6,838,488	2030 \$5,301,442 \$4,546,769 \$9,848,210 \$998,668 \$1,673,639 \$2,672,307 \$538,378 \$209,736 \$748,114 \$6,838,488	2035 \$5,301,442 \$5,450,388 \$10,751,829 \$998,668 \$1,673,639 \$2,672,307 \$538,378 \$209,736 \$748,114 \$6,838,488	2040 \$5,301,442 \$5,803,759 \$11,105,201 \$998,668 \$1,673,639 \$2,672,307 \$538,378 \$209,736 \$748,114 \$6,838,488	2045 \$5,301,442 \$5,803,759 \$11,105,201 \$998,668 \$1,673,639 \$2,672,307 \$538,378 \$209,736 \$748,114 \$6,838,488	2050 \$5,301,442 \$5,803,759 \$11,105,201 \$998,668 \$1,673,639 \$2,672,307 \$538,378 \$209,736 \$748,114 \$6,838,488	2055 \$5,301,442 \$5,803,759 \$11,105,201 \$998,668 \$1,673,639 \$2,672,307 \$538,378 \$209,736 \$748,114 \$6,838,488	2060 \$5,301,442 \$5,803,759 \$11,105,201 \$998,668 \$1,673,639 \$2,672,307 \$538,378 \$209,736 \$748,114 \$6,838,488	2065-70 \$5,301,442 \$5,803,759 \$11,105,201 \$998,668 \$1,673,639 \$2,672,307 \$538,378 \$209,736 \$748,114 \$6,838,488
2023 \$5,301,442 \$3,833,186 \$9,134,628 \$998,668 \$1,673,639 \$2,672,307 \$538,378 \$209,736 \$748,114 \$6,838,488 \$5,716,562	2024 \$5,301,442 \$3,927,790 \$9,229,232 \$998,668 \$1,673,639 \$2,672,307 \$538,378 \$209,736 \$748,114 \$6,838,488 \$5,811,165	2025 \$5,301,442 \$4,024,740 \$9,326,181 \$998,668 \$1,673,639 \$2,672,307 \$538,378 \$209,736 \$748,114 \$6,838,488 \$5,908,115	2030 \$5,301,442 \$4,546,769 \$9,848,210 \$998,668 \$1,673,639 \$2,672,307 \$538,378 \$209,736 \$748,114 \$6,838,488 \$6,430,144	2035 \$5,301,442 \$5,450,388 \$10,751,829 \$998,668 \$1,673,639 \$2,672,307 \$538,378 \$209,736 \$748,114 \$6,838,488 \$7,333,763	2040 \$5,301,442 \$5,803,759 \$11,105,201 \$998,668 \$1,673,639 \$2,672,307 \$538,378 \$209,736 \$748,114 \$6,838,488 \$7,687,134	2045 \$5,301,442 \$5,803,759 \$11,105,201 \$998,668 \$1,673,639 \$2,672,307 \$538,378 \$209,736 \$748,114 \$6,838,488 \$7,687,134	2050 \$5,301,442 \$5,803,759 \$11,105,201 \$998,668 \$1,673,639 \$2,672,307 \$538,378 \$209,736 \$748,114 \$6,838,488 \$7,687,134	2055 \$5,301,442 \$5,803,759 \$11,105,201 \$998,668 \$1,673,639 \$2,672,307 \$538,378 \$209,736 \$748,114 \$6,838,488 \$7,687,134	2060 \$5,301,442 \$5,803,759 \$11,105,201 \$998,668 \$1,673,639 \$2,672,307 \$538,378 \$209,736 \$748,114 \$6,838,488 \$7,687,134	2065-70 \$5,301,442 \$5,803,759 \$11,105,201 \$998,668 \$1,673,639 \$2,672,307 \$538,378 \$209,736 \$748,114 \$6,838,488 \$7,687,134
2023 \$5,301,442 \$3,833,186 \$9,134,628 \$998,668 \$1,673,639 \$2,672,307 \$538,378 \$209,736 \$748,114 \$6,838,488 \$5,716,562 \$12,555,049	2024 \$5,301,442 \$3,927,790 \$9,229,232 \$998,668 \$1,673,639 \$2,672,307 \$538,378 \$209,736 \$748,114 \$6,838,488 \$5,811,165 \$12,649,653	2025 \$5,301,442 \$4,024,740 \$9,326,181 \$998,668 \$1,673,639 \$2,672,307 \$538,378 \$209,736 \$748,114 \$6,838,488 \$5,908,115 \$12,746,603	2030 \$5,301,442 \$4,546,769 \$9,848,210 \$998,668 \$1,673,639 \$2,672,307 \$538,378 \$209,736 \$748,114 \$6,838,488 \$6,430,144 \$13,268,632	2035 \$5,301,442 \$5,450,388 \$10,751,829 \$998,668 \$1,673,639 \$2,672,307 \$538,378 \$209,736 \$748,114 \$6,838,488 \$7,333,763 \$14,172,251	2040 \$5,301,442 \$5,803,759 \$11,105,201 \$998,668 \$1,673,639 \$2,672,307 \$538,378 \$209,736 \$748,114 \$6,838,488 \$7,687,134 \$14,525,622	2045 \$5,301,442 \$5,803,759 \$11,105,201 \$998,668 \$1,673,639 \$2,672,307 \$538,378 \$209,736 \$748,114 \$6,838,488 \$7,687,134 \$14,525,622	2050 \$5,301,442 \$5,803,759 \$11,105,201 \$998,668 \$1,673,639 \$2,672,307 \$538,378 \$209,736 \$748,114 \$6,838,488 \$7,687,134 \$14,525,622	2055 \$5,301,442 \$5,803,759 \$11,105,201 \$998,668 \$1,673,639 \$2,672,307 \$538,378 \$209,736 \$748,114 \$6,838,488 \$7,687,134 \$14,525,622	2060 \$5,301,442 \$5,803,759 \$11,105,201 \$998,668 \$1,673,639 \$2,672,307 \$538,378 \$209,736 \$748,114 \$6,838,488 \$7,687,134 \$14,525,622	2065-70 \$5,301,442 \$5,803,759 \$11,105,201 \$998,668 \$1,673,639 \$2,672,307 \$538,378 \$209,736 \$748,114 \$6,838,488 \$7,687,134 \$14,525,622
2023 \$5,301,442 \$3,833,186 \$9,134,628 \$998,668 \$1,673,639 \$2,672,307 \$538,378 \$209,736 \$748,114 \$6,838,488 \$5,716,562 \$12,555,009 \$12,555,000	2024 \$5,301,442 \$3,927,790 \$9,229,232 \$998,668 \$1,673,639 \$2,672,307 \$538,378 \$209,736 \$748,114 \$6,838,488 \$5,811,165 \$12,649,653 \$12,650,000	2025 \$5,301,442 \$4,024,740 \$9,326,181 \$998,668 \$1,673,639 \$2,672,307 \$538,378 \$209,736 \$748,114 \$6,838,488 \$5,908,115 \$12,746,603 \$12,747,000	2030 \$5,301,442 \$4,546,769 \$9,848,210 \$998,668 \$1,673,639 \$2,672,307 \$538,378 \$209,736 \$748,114 \$6,838,488 \$6,430,144 \$13,268,632 \$13,269,000	2035 \$5,301,442 \$5,450,388 \$10,751,829 \$998,668 \$1,673,639 \$2,672,307 \$538,378 \$209,736 \$748,114 \$6,838,488 \$7,333,763 \$14,172,251 \$14,172,000	2040 \$5,301,442 \$5,803,759 \$11,105,201 \$998,668 \$1,673,639 \$2,672,307 \$538,378 \$209,736 \$748,114 \$6,838,488 \$7,687,134 \$14,525,622 \$14,526,000	2045 \$5,301,442 \$5,803,759 \$11,105,201 \$998,668 \$1,673,639 \$2,672,307 \$538,378 \$209,736 \$748,114 \$6,838,488 \$7,687,134 \$14,525,622 \$14,526,000	2050 \$5,301,442 \$5,803,759 \$11,105,201 \$998,668 \$1,673,639 \$2,672,307 \$538,378 \$209,736 \$748,114 \$6,838,488 \$7,687,134 \$14,525,622 \$14,526,000	2055 \$5,301,442 \$5,803,759 \$11,105,201 \$998,668 \$1,673,639 \$2,672,307 \$538,378 \$209,736 \$748,114 \$6,838,488 \$7,687,134 \$14,525,622 \$14,526,000	2060 \$5,301,442 \$5,803,759 \$11,105,201 \$998,668 \$1,673,639 \$2,672,307 \$538,378 \$209,736 \$748,114 \$6,838,488 \$7,687,134 \$14,525,622 \$14,526,000	2065-70 \$5,301,442 \$5,803,759 \$11,105,201 \$998,668 \$1,673,639 \$2,672,307 \$538,378 \$209,736 \$748,114 \$6,838,488 \$7,687,134 \$14,525,622 \$14,526,000

#### Table D2 - 2040 Navajo - Gallup Water Supply Project San Juan River PNM Alternative - 2040 Allocation of Annual Fixed O,M&R Costs by User

Jan-05 \$

		Joint Costs												
		Pump	oing Plants		Pipelines		Elec.Trans. Line		NIIP Canal	[	Water Treatn	nent Plant F	ixed O,M&F	
San Jua	n Branch	Pumping	Annual	Г	Annual	I	Annual	, I	Annual		Equipment	[	Misc. @	1
Reach	End	Plants	Maintenance	N	Maintenance		Maintenance		Maintenance	Operators	Replacement	Dredging	10%	Total
1	Water Treatment Plant (WTP)	River	\$86,751		\$0		\$7,692		ļ į	 \$815,741	\$617,381	\$206,576	\$163,970	\$1,803,669
2	NAPI turnout	01	\$171,628		\$10,312		\$5,361	.	1 /		-		i j	1
3	Shiprock Junction		<b>\$</b> 0		\$91,359		\$0	.					ļ	1
4	Sanostee turnout	02, 03	\$301,642		\$101,747	I.	\$13,770						ļ	1 1
5	Burnham Junction		<b>\$</b> 0		\$50,219	I.	\$0						ļ	1
6	Newcomb turnout		<b>\$</b> 0		\$19,291	I.	\$39,600		1 1				ļ	1 1
7	Sheepsprings turnout	04	\$140,630	1	\$53,668	I.	\$29,568		[ ]				ļ	1 1
8	Naschitti turnout	05	\$131,941		\$26,261	I.	\$72,813		i !				ļ	1 1
9	Tohatchi turnout	06	\$153,398		\$84,933	I.	\$31,721						ļ	
10	Coyote Canyon Junction		<b>\$</b> 0		\$26,895	I.	\$11,134						ļ	i
11	Twin Lakes turnout	07	\$144,678		\$12,584		\$30,660						ļ	, I
12	Ya-ta-hey Junction	08	\$152,870		\$25,055	I.	\$5,361						ļ	. 1
13	Gallup Junction		<b>\$</b> 0		\$11,920	I.	\$3,047						ļ	1 1
14	Navajo Chapters		<b>\$</b> 0		\$0	:	\$15,235						ļ	
10.1	Coyote Canyon turnout	11	\$80,434		\$18,122		\$8,408						ļ	1
10.2	Standing Rock turnout	12	\$98,567		\$32,796		\$8,408						ļ	1 1
10.3	Dalton Pass turnout	13	\$106,943		\$8,600	1	\$8,408						ļ	
12.1	Rock Springs turnout	09	\$116,819		\$16,385	I	\$8,408							
12.2	Window Rock turnout	10	\$109,915		\$28,233	I.	\$39,418						1	ı
					· ,									
Cutter I	3ranch								1 1					i
Reach	End								1 1				ļ	1
21	WTP	Reservoir	\$0		\$0		\$2,331		\$37,559	 \$815,741	\$86,856	\$822	\$90,342	\$993,761
22	Huerfano turnout	01, 02, 03	\$354,966		\$66,132	I.	\$204,411						ļ	1
23	Nageezi tu <del>r</del> nout	04	\$106,955		\$25,981	I.	\$8,408						ļ	1
24	Jicarilla turnout	05	\$120,017		\$31,647	I.	\$75,392						ļ	í –
25	Counselor turnout	06	\$111,076		\$18,452	I.	\$20,248		1 1				•	1
26	Torreon turnout		\$0		\$13,969	I.	\$3,047						ļ	1
		Total	\$2,489,233		\$774,560		\$652,850		\$37,559	\$1,631,483	\$704,237	\$207,398	\$254,312	\$2,797,429

Annual pipeline OM&R estimated at Annual electric transmission line OM&R estimated at of capital cost of capital cost

ated at 3.0% of

0.5%

#### Table D2 - 2040, page 2 Navajo - Gallup Water Supply Project San Juan River PNM Alternative - 2040 Allocation of Annual Fixed O,M&R Costs by User

					Dec	dicated C	Costs		Total Annu	ual Fixed OM&	R Costs			
		Alle	ocated Join	t Co	osts			Service A	rea Pump	ing Pla	nts	Ded	icated Costs Plu	us
Total	Al	location Ratio	os		Alloc	ated Joint Cos	ts	Ann	ual Mainte	nance		Allo	cated Joint Cos	ts
Joint Costs	Navajo	Gallup	Jicarilla		Navajo	Gallup	Jicarilla	Navajo	Gallup	Jicari	lla	Navajo	Gallup	Jicarilla
\$1,898,112	0.7724	0.2276	-		\$1,466,082	\$432,031	\$0					\$1,466,082	\$432,031	\$0
\$187,301	0.7724	0.2276	-		\$144,670	\$42,632	\$0					\$144,670	\$42,632	\$0
\$91,359	0.7686	0.2314	-		\$70,219	\$21,141	<b>\$</b> 0					\$70,219	\$21,141	\$0
\$417,159	0.7384	0.2616	-		\$308,029	\$109,131	<b>\$</b> 0	\$3,521				\$311,550	\$109,131	<b>\$</b> C
\$50,219	0.7278	0.2722	-		\$36,550	\$13,668	<b>\$</b> 0					\$36,550	\$13,668	<b>\$</b> C
\$58,891	0.7263	0.2737	-		\$42,774	\$16,117	\$0	\$3,521				\$46,296	\$16,117	<b>\$</b> C
\$223,866	0.7176	0.2824	-		\$160,648	\$63,217	\$0	\$3,521				\$164,170	\$63,217	\$0
\$231,015	0.7134	0.2866	-		\$164,807	\$66,208	\$0	\$3,521				\$168,328	\$66,208	\$0
\$270,052	0.7037	0.2963			\$190,034	\$80,018	<b>\$</b> 0	\$3,521				\$193,556	\$80,018	\$0
\$38,029	0.6901	0.3099			\$26,245	\$11,784	<b>\$</b> 0					\$26,245	\$11,784	\$0
\$187,923	0.6493	0.3507	-		\$122,020	\$65,903	\$0	\$3,521				\$125,541	\$65,903	\$0
\$183,286	0.6313	0.3687	-		\$115,702	\$67,585	\$0					\$115,702	\$67,585	\$0
\$14,967	0.3830	0.6170	-		\$5,732	\$9,235	<b>\$</b> 0					\$5,732	\$9,235	\$0
\$15,235	1.0000	**	-		\$15,235	<b>\$</b> 0	<b>\$</b> 0	\$17,606	i			\$32,841	\$0	\$0
\$106,965	1.0000	-	-		\$106,965	\$0	<b>\$</b> 0	\$3,521				\$110,486	\$0	\$(
\$139,772	1.0000	-	-		\$139,772	\$0	\$0	\$3,521				\$143,293	\$0	\$(
\$123,951	1.0000	-	-		\$123,951	<b>\$</b> 0	\$0	\$3,521				\$127,472	<b>\$</b> 0	\$0
\$141,613	1.0000	-	-		\$141,613	<b>\$</b> 0	\$0	\$3,521				\$145,134	<b>\$</b> 0	\$(
\$177,566	1.0000	-	-		\$177,566	<b>\$</b> 0	\$0	\$19,953	5			\$197,519	<b>\$</b> 0	<b>\$</b> C
\$1,033,651	0.7422		0.2578		\$767,182	\$0	\$266,469					\$767,182	\$0	\$266,469
\$625,509	0.7422	-	0.2578		\$464,257	\$0	\$161,252	\$3,521				\$467,778	\$0	\$161,252
\$141,344	0.7258	-	0.2742		\$102,582	\$0	\$38,761	\$3,521				\$106,103	<b>\$</b> 0	\$38,761
\$227,056	0.6834	-	0.3166		\$155,161	\$0	\$71,896					\$155,161	\$0	\$71,890
\$149,776	1.0000	~	-		\$149,776	<b>\$</b> 0	\$0	\$3,521				\$153,297	\$0	\$(
\$17,016	1.0000	-	-		\$17,016	\$0	\$0	\$3,521				\$20,537	\$0	\$(
\$6,751,632					\$5,214,586	\$998,668	\$538,378	\$86,856	5			\$5,301,442	\$998,668	\$538,378

#### Table D2 - 2040, page 3 Navajo - Gallup Water Supply Project San Juan River PNM Alternative - 2040 Allocation of Annual Fixed O,M&R Costs by User

Total An	nual Fixed OM8	cR Costs							
Cutter Lateral Only Scenario									
Navaio	Gallup	licarilla							
\$0	\$0	\$0							
<b>\$</b> 0	\$0	\$0							
\$0	\$0	\$0							
<b>\$</b> 0	\$0	\$0							
\$0	\$0	\$0							
<b>\$</b> 0	\$0	<b>\$</b> 0							
\$0	\$0	\$0							
<b>\$</b> 0	<b>\$</b> 0	\$0							
<b>\$</b> 0	\$0	\$0							
\$0	\$0	\$0							
\$0	\$0	\$0							
<b>\$</b> 0	\$0	\$0							
\$0	\$0	\$0							
<b>\$</b> 0	\$0	\$0							
\$0	\$0	<b>\$</b> 0							
\$0	\$0	\$0							
<b>\$</b> 0	\$0	<b>\$</b> 0							
<b>\$</b> 0	<b>\$</b> 0	\$0							
<b>\$</b> 0	\$0	\$0							
\$767,182	\$0	\$266,469							
\$467,778	\$0	\$161,252							
\$106,103	\$0	\$38,761							
\$155,161	\$0	\$71,896							
\$153,297	\$0	\$0							
\$20,537	\$0	\$0							
\$1,670,058	\$0	\$538,378							

Total Annual Fixed OM&R Costs									
Gallup Chapters Scenario									
Navajo	Gallup	Jicarilla							
\$0	\$0	<b>\$</b> 0							
\$0	\$0	\$0							
\$0	\$0	\$0							
\$0	\$0	\$0							
\$0	\$0	\$0							
<b>\$</b> 0	\$0	\$0							
<b>\$</b> O	\$0	<b>\$</b> 0							
<b>\$</b> 0	<b>\$</b> 0	\$0							
<b>\$</b> 0	\$0	\$0							
<b>\$</b> 0	\$0	\$0							
\$191,444	\$0	\$0							
\$183,286	\$0	\$0							
\$14,967	\$0	<b>\$</b> 0							
\$32,841	<b>\$</b> 0	\$0							
\$0	\$0	\$0							
\$0	<b>\$</b> 0	\$0							
\$0	<b>\$</b> 0	\$0							
<b>\$</b> 0	\$0	\$0							
<b>\$</b> 0	\$0	<b>\$</b> 0							
\$0	\$0	\$0							
\$0	<b>\$</b> 0	<b>\$</b> 0							
\$0	\$0	\$0							
<b>\$</b> 0	\$0	\$0							
<b>\$</b> 0	<b>\$</b> 0	<b>\$</b> 0							
\$0	\$0	\$0							
\$422 538	\$0	\$0							

#### Table D3 - 2040 Navajo - Gallup Water Supply Project San Juan River PNM Alternative - 2040 Projection of Peak Flows by Reach, Annually 2010-2020 and then by 5-Year Period, 2020 - 2070

		Design	Design Peak																							
		Capacity	Deliveries										Total I	Delive	ries (p	eak flo	ws)									
San Jua	n Branch	by Reach	by Reach	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2030	2035	2040	2045	2050	2055 3	2060-70
Number	End	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs
1	Water Treatment Plant (WTP)	59.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	NAPI turnout	59.18	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.61	0.62	0.64	0.66	0.67	0.76	0.86	0.97	0.97	0.97	0.97	0.97
3	Shiprock Junction	58.21	6.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.22	4.32	4.43	4.54	4.65	5.26	5.95	6.72	6.72	6.72	6.72	6.72
4	Sanostee turnout	51.49	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.26	1.29	1.32	1.35	1.38	1.57	1.77	2.00	2.00	2.00	2.00	2.00
5	Burnham Junction	49.49	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.17	0.18	0.18	0.19	0.21	0.24	0.27	0.27	0.27	0.27	0.27
6	Newcomb turnout	49.22	1.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.95	0.98	1.00	1.03	1.05	1.19	1.34	1.52	1.52	1.52	1.52	1.52
7	Sheepsprings turnout	47.70	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.44	0.45	0.46	0.47	0.48	0.55	0.62	0.70	0.70	0.70	0.70	0.70
8	Naschitti turnout	47.00	1.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.97	0.99	1.02	1.04	1.07	1.21	1.36	1.54	1.54	1.54	1.54	1.54
9	Tohatchi turnout	45.46	1.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.25	1.28	1.31	1.34	1.38	1.56	1.76	1.99	1.99	1.99	1.99	1.99
10	Coyote Canyon Junction	43.47	5.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.18	3.26	3.34	3.42	3.50	3.96	4.48	5.06	5.06	5.06	5.06	5.06
11	Twin Lakes turnout	38.41	1.88	0.00	0.00	0.00	0.00	0.00	1.02	1.04	1.07	1.10	1.12	1.15	1.18	1.21	1.24	1.27	1.30	1.47	1.66	1.88	1.88	1.88	1.88	1.88
12	Ya-ta-hey Junction	36.53	14.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.23	9.46	9.69	9.93	10.18	11.51	13.01	14.70	14.70	14.70	14.70	14.70
13	Gallup Junction	21.83	13.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.47	13.47	13.47	13.47	13.47	13.47	13.47	13.47	13.47	13.47	13.47	13.47
14	Navajo Chapters	8.36	8.36	0.00	0.00	0.00	0.00	0.00	2.57	2.55	2.52	2.49	2.47	2.44	5.25	5.38	5.51	5.65	5.79	6.54	7.40	8.36	8.36	8.36	8.36	8.36
			59.18	0.00	0.00	0.00	0.00	0.00	3.59	3.59	3.59	3.59	3.59	3.59	42.17	42.88	43.61	44.36	45.12	49.25	53.91	59.18	59.18	59.18	59.18	59.18
10.1	Coyote Canyon turnout	5.06	1.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.78	0.80	0.82	0.84	0.87	0.98	1.11	1.25	1.25	1.25	1.25	1.25
10.2	Standing Rock turnout	3.81	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.08	0.09	0.09	0.09	0.10	0.12	0.13	0.13	0.13	0.13	0.13
10.3	Dalton Pass turnout	3.68	3.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.31	2.37	2.43	2.49	2.55	2.88	3.26	3.68	3.68	3.68	3.68	3.68
			5.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.18	3.26	3.34	3.42	3.50	3.96	4.48	5.06	5.06	5.06	5.06	5.06
12.1	Rock Springs turnout	14.70	3.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	2.05	2.10	2.16	2.21	2.50	2.82	3.19	3.19	3.19	3.19	3.19
12.2	Window Rock turnout	11.51	11.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.23	7.41	7.59	7.78	7.97	9.01	10.18	11.51	11.51	11.51	11.51	11.51
			14.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.23	9.46	9.69	9.93	10.18	11.51	13.01	14.70	14.70	14.70	14.70	14.70
Cutter I	Branch			2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2030	2035	2040	2045	2050	2055	2060-5
21	WTP	8.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	Huerfano turnout	8.34	0.50	0.00	0.00	0.00	0.26	0.26	0.27	0.28	0.28	0.29	0.30	0.31	0.31	0.32	0.33	0.34	0.35	0.39	0.44	0.50	0.50	0.50	0.50	0.50
23	Nageezi turnout	7.84	1.05	0.00	0.00	0.00	0.54	0.56	0.57	0.58	0.60	0.61	0.63	0.64	0.66	0.68	0.69	0.71	0.73	0.82	0.93	1.05	1.05	1.05	1.05	1.05
24	licarilla turnout	6.79	2.15	0.00	0.00	0.00	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15
25	Counselor turnout	4.64	2.63	0.00	0.00	0.00	1.36	1.39	1.43	1.46	1.50	1.53	1.57	1.61	1.65	1.69	1.73	1.78	1.82	2.06	2.33	2.63	2.63	2.63	2.63	2.63
26	Torreon turnout	2.01	2.01	0.00	0.00	0.00	1.04	1.06	1.09	1.12	1.14	1.17	1.20	1.23	1.26	1.29	1.33	1.36	1.39	1.57	1.78	2.01	2.01	2.01	2.01	2.01
			8.34	0.00	0.00	0.00	5.34	5.42	5.51	5.59	5.67	5.76	5.85	5.94	6.04	6.13	6.23	6.33	6.44	7.00	7.63	8.34	8.34	8.34	8.34	8.34

Note: Peak flows = average flows times 1.3 peaking factor

#### Table D4, page 1 Navajo - Gallup Water Supply Project San Juan River PNM Alternative - 2040 Projection of Peak Flows in Each Reach Allocated to Each Party, Annually 2010-2025 and then by 5-Year Period, 2020 - 2070

	,										Nav	ajo											
	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2030	2035	2040	2045	2050	2055	2060-70
Reach	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs											
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28.70	29.41	30.14	30.89	31.65	35.78	40.44	45.71	45.71	45.71	45.71	45.71
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28.70	29.41	30.14	30.89	31.65	35.78	40.44	45.71	45.71	45.71	45.71	45.71
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28.09	28.79	29.50	30.23	30.98	35.02	39.58	44.74	44.74	44.74	44.74	44.74
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23.87	24.46	25.07	25.69	26.33	29.76	33.64	38.02	38.02	38.02	38.02	38.02
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.62	23.18	23.75	24.34	24.94	28.19	31.87	36.02	36.02	36.02	36.02	36.02
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.45	23.00	23.57	24.16	24.76	27.98	31.63	35.75	35.75	35.75	35.75	35.75
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.49	22.02	22.57	23.13	23.70	26.79	30.28	34.23	34.23	34.23	34.23	34.23
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.05	21.57	22.11	22.66	23.22	26.24	29.66	33.53	33.53	33.53	33.53	33.53
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.08	20.58	21.09	21.62	22.15	25.04	28.30	31.99	31.99	31.99	31.99	31.99
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.84	19.30	19.78	20.27	20.77	23.48	26.54	30.00	30.00	30.00	30.00	30.00
11	0.00	0.00	0.00	0.00	0.00	3.59	3.59	3.59	3.59	3.59	3.59	15.66	16.05	16.44	16.85	17.27	19.52	22.06	24.94	24.94	24.94	24.94	24.94
12	0.00	0.00	0.00	0.00	0.00	2.57	2.55	2.52	2.49	2.47	2.44	14.48	14.84	15.21	15.58	15.97	18.05	20.40	25.00	25.00	25.06	23.00	25.00
1.5	0.00	0.00	0.00	0.00	0.00	2.57	2.55	2.52	2.49	2.47	2.44	5.25	5.38	5.51	5.05	5.79	0.54	7.40	9.30	9.36	0.30	836	9.30
14	0.00	0.00	0.00	0.00	0.00	2.57	2.55	2.52	2.49	2.47	2.44	5.25	5.38	5.51	5.05	5.79	0.34	7.40	6.30	<b>6.</b> 30	0.50	6.50	0.30
10.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.18	3.26	3.34	3.42	3.50	3.96	4.48	5.06	5.06	5.06	5.06	5.06
10.2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.39	2.45	2.51	2.57	2.64	2.98	3.37	3.81	3.81	3.81	3.81	3.81
10.3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.31	2.37	2.43	2.49	2.55	2.88	3.26	3.68	3.68	3.68	3.68	3.68
12.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.23	9.46	9.69	9.93	10.18	11.51	13.01	14.70	14.70	14.70	14.70	14.70
12.2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.23	7.41	7.59	7.78	7.97	9.01	10.18	11.51	11.51	11.51	11.51	11.51
													<u> </u>		<u> </u>						<u> </u>	······	
											Nav	rajo											
	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2030	2035	2040	2045	2050	2055	2060-5

I		2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2030	2035	2040	2045	2050	2055	2060-5
	21	0.00	0.00	0.00	3.19	3.27	3.36	3.44	3.52	3.61	3.70	3.79	3.89	3.98	4.08	4.18	4.29	4.85	5.48	6.19	6.19	6.19	6.19	6.19
l	22	0.00	0.00	0.00	3.19	3.27	3.36	3.44	3.52	3.61	3.70	3.79	3.89	3.98	4.08	4.18	4.29	4.85	5.48	6.19	6.19	6.19	6.19	6.19
	23	0.00	0.00	0.00	2.94	3.01	3.08	3.16	3.24	3.32	3.40	3.49	3.57	3.66	3.75	3.84	3.94	4.45	5.03	5.69	5.69	5.69	5.69	5.69
Į	24	0.00	0.00	0.00	2 39	245	2 5 2	2.58	2.64	2.71	2.77	2.84	2.91	2.99	3.06	3.14	3.21	3.63	4.11	4.64	4.64	4.64	4.64	4.64
i	25	0.00	0.00	0.00	2 30	2.15	2.52	2.58	2.64	271	277	2.84	2.91	2.99	3.06	3.14	3.21	3.63	4.11	4.64	4.64	4.64	4.64	4.64
	26	0.00	0.00	0.00	1.04	1.06	1.00	1 12	1 14	1 17	1.20	1 23	1.26	1 29	1 33	1 36	1 30	1.57	1.78	2.01	2.01	2.01	2.01	2.01

#### Table D4, page 2 Navajo - Gallup Water Supply Project San Juan River PNM Alternative - 2040 Projection of Peak Flows in Each Reach Allocated to Each Party, Annually 2010-2025 and then by 5-Year Period, 2025 - 2070

Jicarilla Gallup 2024 2025-70 2016 2017 2018 2019 2020 2021 2022 2023 All yrs. 2010 2011 2012 2013 2014 2015 cfs 13.47 13.47 13.47 13.47 0.00 13.47 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.000.00 0.00 0.00 0.00 13.47 13.47 13.47 13.47 13.47 0.00 0.00 0.000.000.000.00 0.000.000.000.00 0.00 0.00 0.00 0.00 0.00 13.47 13.47 13.47 13.47 13.47 0.00 0.00 0.000.00 0.000.000.00 0.000.00 0.00 0.00 0.000.00 0.0013.47 13.47 13.47 13.47 13.47 0.000.000.000.000.00 0.000.00 0.00 0.00 13.47 13.47 13.47 13.47 13.47 0.00 0.00 0.00 0.00 0.00 0.000.00 0.00 0.0013.47 0.00 0.00 0.00 0.000.00 13.47 13.47 13.47 13.47 0.00 0.000.00 0.00 0.00 0.000.00 13.47 13.47 13.47 13.47 0.00 0.00 0.00 0.00 0.00 0.00 0.000.00 13.47 0.00 0.00 0.00 0.00 0.00 13.47 13.47 13.47 13.47 13.47 0.00 0.00 0.00 0.00 0.00 0.000.000.00 0.000.00 0.00 13.47 13.47 13.47 13.47 13.47 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.000.00 0.00 0.00 0.00 13.47 13.47 13.47 13.47 13.47 0.00 0.00 0.000.000.000.00 0.000.00 0.00 13.47 13.47 13.47 13.47 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0013.47 0.00 0.000.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 13.47 13.47 13.47 13.47 13.47 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.000.00 0.000.00 0.00 13.47 13.47 13.47 13.47 13.47 0.00 0.000.00 0.00 0.000.00 0.00 0.000.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.000.00 0.00 0.000.00 0.000.000.00 0.00 0.000.00 0.00 0.00 0.000.000.000.00 0.00 0.00 0.00 0.00 0.00 0.00 0.000.00 0.00 0.000.00 0.00 0.00 0.000.000.000.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.000.00 0.00 0.00 0.000.00 0.000.000.00 0.000.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.000.00 0.00 0.00 0.00

	Gallup								Jica	illa							
	All vts.	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025-70
	0.00	0.00	0.00	0.00	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15
1	0.00	0.00	0.00	0.00	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15
	0.00	0.00	0.00	0.00	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15
	0.00	0.00	0.00	0.00	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

#### Table D5, page 1

24

25

26

Navajo - Gallup Water Supply Project

San Juan River PNM Alternative - 2040

Projection of Flows by Reach

#### Percentage of Peak Flows in Each Reach Allocated to Each Party, Annually 2010-2025 and then by 5-Year Period, 2025 - 2070

												Navajo											
	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2030	2035	2040	2045	2050	2055	2060-70
Reach	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
1	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.6806	0.6859	0.6911	0.6963	0.7015	0.7265	0.7501	0.7724	0.7724	0.7724	0.7724	0.7724
2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.6806	0.6859	0.6911	0.6963	0.7015	0.7265	0.7501	0.7724	0.7724	0.7724	0.7724	0.7724
3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.6759	0.6812	0.6865	0.6918	0.6970	0.7222	0.7461	0.7686	0.7686	0.7686	0.7686	0.7686
4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.6393	0.6449	0.6505	0.6560	0.6615	0.6884	0.7141	0.7384	0.7384	0.7384	0.7384	0.7384
5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.6267	0.6324	0.6381	0.6437	0.6493	0.6767	0.7029	0.7278	0.7278	0.7278	0.7278	0.7278
6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.6250	0.6307	0.6364	0.6420	0.6476	0.6750	0.7013	0.7263	0.7263	0.7263	0.7263	0.7263
7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.6147	0.6205	0.6263	0.6320	0.6376	0.6654	0.6921	0./1/6	0.7176	0./1/6	0.7176	0.7176
8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.6098	0.6156	0.6214	0.6272	0.6329	0.6608	0.6877	0.7134	0.7134	0.7134	0.7134	0.7134
9	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.5986	0.6044	0.6103	0.6161	0.6219	0.6502	0.6775	0.7037	0.7037	0.7037	0.7037	0.7057
10	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.5830	0.5890	0.5949	0.6008	0.6067	0.6355	0.6633	0.6901	0.6901	0.6901	0.6403	0.6403
11	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.5376	0.5437	0.5497	0.5558	0.5018	0.5917	0.0209	0.0495	0.0495	0.6495	0.6493	0.6313
12	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.5180	0.5242	0.5303	0.5364	0.3424	0.5720	0.0025	0.0313	0.0313	0.0313	0.0515	0.0313
13	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.2804	0.2854	0.2904	0.2955	0.5000	1.0000	1,0000	1.0000	1.0000	1 0000	1 0000	1.0000
14	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
								4 0000	1 0000	1 0000	1 0000	1 0000	1 0000	1 0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
10.1	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
10.2	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
10.3	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
	1 0000		4.0000	1 0000	1 0000	1 0000	1 0000	1 0000	1 0000	1,0000	1.0000	1 0000	1.0000	1.0000	1.0000	1.0000	1 0000	1.0000	1.0000	1.0000	1.0000	1 0000	1.0000
12.1	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
12.2	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1,0000	1.0000	1.0000	1.0000	1.0000	
	Manufa																						
1	Navajo	0011	0010	0012	2014	2015	2017	2017	2018	2010	2020	2021	2022	2023	2024	2025	2030	2035	2040	2045	2050	2055	2060-70
	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	0.6292	0.6429	0.6401	0.6550	0.6605	0.6660	0.6026	0.7181	0 7422	0 7422	0.7422	0.7422	0.7422
21	0.0000	0.0000	0.0000	0.5977	0.6036	0.6095	0.6153	0.0211	0.6268	0.6325	0.0382	0.0430	0.0494	0.0550	0.0000	0.0000	0.6926	0.7181	0.7422	0.7422	0.7422	0.7422	0.7422
22	0.0000	0.0000	0.0000	0.5977	0.6036	0.6095	0.6155	0.6211	0.0208	0.0323	0.0382	0.0438	0.0494	0.0330	0.0005	0.0000	0.6744	0.7101	0.7422	0.7258	0.7258	0.7758	0.7258
23	-0.0000	-0.0000	-0.0000	0.5773	0.5833	0.5892	0.5952	0.0010	0.0009	0.0127	0.0185	0.0243	0.0200	0.0337	0.0414	0.0470	0.0744	0.7007	0.1200	0.7230	0.1230	0.7250	0.,250

0.0000 0.0000 0.5269 0.5330 0.5391 0.5452 0.5513 0.5573 0.5634 0.5694 0.5754 0.5813 0.5873 0.5932 0.5991 0.6281 0.6563 0.6834 0.6834 0.6834 0.6834 0.6834

1.0000 1.00000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.

1.0000 1.00000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.

#### Table D5, page 2 Navajo - Gallup Water Supply Project San Juan River PNM Alternative - 2040 Projection of Flows by Reach Percentage of Peak Flows in Each Reach Allocated to Each Party, Annually 2010-2025 and then by 5-Year Period, 2025 - 2070

											Gallup													<b>Jicarilla</b>
2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2030	2035	2040	2045	2050	2055	2060-70		All Years
%	%	%	%	%	%	%	0/0	%	%	%	0/0	%	%	%	%	%	%	<b>0</b> ∕₀	%	%	%	%		%
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.3194	0.3141	0.3089	0.3037	0.2985	0.2735	0.2499	0.2276	0.2276	0.2276	0.2276	0.2276	_	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.3194	0.3141	0.3089	0.3037	0.2985	0.2735	0.2499	0.2276	0.2276	0.2276	0.2276	0.2276		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.3241	0.3188	0.3135	0.3082	0.3030	0.2778	0.2539	0.2314	0.2314	0.2314	0.2314	0.2314		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.3607	0.3551	0.3495	0.3440	0.3385	0.3116	0.2859	0.2616	0.2616	0.2616	0.2616	0.2616		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.3733	0.3676	0.3619	0.3563	0.3507	0.3233	0.2971	0.2722	0.2722	0.2722	0.2722	0.2722		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.3750	0.3693	0.3636	0.3580	0.3524	0.3250	0.2987	0.2737	0.2737	0.2737	0.2737	0.2737		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.3853	0.3795	0.3737	0.3680	0.3624	0.3346	0.3079	0.2824	0.2824	0.2824	0.2824	0.2824		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.3902	0.3844	0.3786	0.3728	0.3671	0.3392	0.3123	0.2866	0.2866	0.2866	0.2866	0.2866		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.4014	0.3956	0.3897	0.3839	0.3781	0.3498	0.3225	0.2963	0.2963	0.2963	0.2963	0.2963		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.4170	0.4110	0.4051	0.3992	0.3933	0.3645	0.3367	0.3099	0.3099	0.3099	0.3099	0.3099		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.4624	0.4563	0.4503	0.4442	0.4382	0.4083	0.3791	0.3507	0.3507	0.3507	0.3507	0.3507		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.4820	0.4758	0.4697	0.4636	0.4576	0.4274	0.3977	0.3687	0.3687	0.3687	0.3687	0.3687		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.7196	0.7146	0.7096	0.7045	0.6994	0.6730	0.6455	0.6170	0.6170	0.6170	0.6170	0.6170		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
L n nonn	0.000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0 0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	ĺ	0.0000
010000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
L						0.0000	010000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Jicarilla			· · · ·													_								Gallun
2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2030	2035	2040	2045	2050	2055	2060-70		All Years
0.0000	0.0000	0.0000	0.4023	0.3964	0.3905	0.3847	0.3789	0.3732	0.3675	0.3618	0.3562	0.3506	0.3450	0.3395	0.3340	0.3074	0.2819	0.2578	0.2578	0.2578	0.2578	0 2578		0.0000
0.0000	0.0000	0.0000	0.4023	0.3964	0.3905	0.3847	0.3789	0.3732	0.3675	0.3618	0.3562	0.3506	0.3450	0.3395	0.3340	0.3074	0.2819	0.2578	0.2578	0.2578	0.2578	0.2578		0.0000
0.0000	0.0000	0.0000	0.4227	0.4167	0.4108	0.4048	0.3990	0.3931	0.3873	0.3815	0.3757	0.3700	0.3643	0.3586	0.3530	0.3256	0.2993	0.2742	0.2742	0.2742	0 2742	0 2742		0.0000
0.0000	0.0000	0.0000	0.4731	0.4670	0.4609	0.4548	0.4487	0.4427	0.4366	0.4306	0.4246	0.4187	0.4127	0.4068	0.4009	0.3719	0.3437	0.3166	0.3166	0.3166	0.3166	0.3166		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000

٠

# Table D6, page 1 Navajo - Gallup Water Supply Project San Juan River PNM Alternative - 2040 Allocation of Annual Variable O,M&R Costs by User **CRSP** Power Rates Jan-05 \$

Г

Variable OM&R Const at Design Contra at Design Capacity (all Navajo)         Joint Variable OM&R at Design Capacity         Joint Variable OM&R at Design Capacity         Projected Peak Flows as a Percentage of Design Flow by Year           San Juan Branch         Capacity (all Navajo)         Pump Plant         WTP         WTP         Sub         Navajo Dam           Rech         Find         Booster Pamp Energy         Energy         Chemicals         Miac         Total         OMAdR         2014         2015         2016         2017         2018         2019         2021         2022         2023         2024         2025         2035         2040         2045         2050         2055 <td< th=""><th></th></td<>	
Casts at Design San Juan Branch         Constant Design Capacity (at Navajo)         Joint Variable O,M&R at Design Capacity           San Juan Branch         Casts of Unity (at Navajo)         Pump Plant         WTP         WTP         Subject Plant         Navajo Dam           Reach         F.nd         Energy         Energy         Energy         Energy         Casts at Design         OM4&R         2010         2011         2012         2013         2014         2015         2016         2017         2018         2019         2021         2023         2024         2023         2032	~~~
San Juan Branch         Capacity (all Navio)         Pump Plant         WTP         WTP         Sub         Navio Dam         Projected Pair Flows as Percentage of Design Flow by Year           Beach         Booster Pump Eurogy         Energy         Energio         Fair Joint         Other Pump Plant         WTP         WTP         Sub         Navio Dam         Projected Pair Flows as Percentage of Design Flow by Year         Pump Plant         WTP         WTP         WTP         WTP         Sub         Navio Dam         Pump Plant         Projected Pair Flows as Percentage of Design Flow by Year           I         Water Treatment Plant (WTP)         \$\$31,713         \$\$17,0516         \$\$962,457         \$\$13,279         \$\$1,277,984         \$\$32,955         0.0000 <th></th>	
Reach         End         Booster Pump Energy         Energy         Chemicals         Misc.         Total         OM4&R         2010         2011         2012         2012         2012         2012         2022         2023         2014         2025         2030         2015         2040         2045         2016         2017         2018         2017         2012	
I         Water Treatment Plant (WTP)         \$13,713         \$17,0516         \$962,457         \$113,297         \$12,77984         \$32,955         0.0000         0.00	2060-70
2       NAPI unrowit       \$311,494       0.0000 <th>0 L0000</th>	0 L0000
3         Shiperedk Junction         \$0         0.0000         0.00	0 1.0000
4         Samostee turnsuit         \$3,858         \$405,914         Qu000	0000.1 · C
5 Burnham Junction fi 0.0000	0 £.0000
	000001 C
6 Newcomb turnout \$2,932 \$0 0.00000 0.000000	0000.1 C
7 Sheepsprings turnout \$1,350 \$150,528 \$150,528 0.00000 0.00000 0.00000 0.00000 0.0000 0.0000 0.0000 0.0000	00000 C
8 Naschitti turnovit \$2,990 \$120,894 \$120,894 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.7345 0.7456 0.7570 0.7687 0.7806 0.8450 0.9178 1.0000 1.0000 1.0000 1.0000	o 00001 C
9 Tohatchi tumout \$3,839 \$198,136 \$198,136 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.7381 0.7491 0.7603 0.7718 0.7836 0.8471 0.9189 1.0000 1.0000 1.0000 1.0000	00000.1 C
10 Coyole Canyon Junction \$0 0.0000	J 1.0000
11 Twin Lakes turnoot \$3,627 \$153,687 \$153,687 0.0000 0.0000 0.0000 0.0000 0.0000 0.0035 0.0935 0.0935 0.0935 0.0935 0.784 0.7685 0.7788 0.7898 0.9251 1.0000 1.0000 1.0000 1.0000	ð 1.0000
12 Ya-ta-hey Junction \$181,835 \$181,835 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00683 0.0676 0.0668 0.7651 0.7749 0.7850 0.7953 0.8059 0.8628 0.9272 1.0000 1.0000 1.0000 1.0000	J 1.0000
13 Gallup Junction \$0 0.0000 0.0000 0.0000 0.0000 0.1178 0.1178 0.1167 0.1155 0.1143 0.1130 0.1118 0.8575 0.8634 0.8696 0.8758 0.8822 0.9168 0.9559 1.0000 1.0000 1.0000 1.0000	0 1.0000
14 Navajo Chapters \$16,128 \$0 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0007 0.3017 0.3016 0.2984 0.2952 0.2918 0.6279 0.6434 0.6554 0.6757 0.6925 0.7827 0.8847 1.0000 1.0000 1.0000	0 1.0000
	Ì
10.1 Coyote Canyon turnout \$2,392 \$10,123 \$10,123 0.000000	0 1.0000
10.2 Standing Rock turnout \$270 \$12,613 \$12,613 0.000000	0000.1 6
10.3 Dalton Pass turnout \$7,099 \$16,740 \$16,740 0.000000	0 1.0000
12.1 Rock Springs turnout \$6,154 \$49,048 \$49,048 0.000000	0 1.0000
12.2 Window Rock turnout \$22,205 \$34,952 \$34,952 0.000000	0 1.0000
subiotal \$72,844 \$2,923,948 \$32,955	
Cutter Branch	
21 WTP \$19754 \$136 153 \$15751 \$171497 \$4.644 0,0000 0,0000 0,6400 0,6501 0,6701 0,6908 0,7015 0,7125 0,7338 0,7353 0,7472 0,7588 0,7718 0,8387 0,9144 1,00000 1,0000 1,0000 1,00000 1,0000 1,0000 1,0000 1,00	0 1 0000
	0 1,0000
	0 10000
24 [Satilla Lumpout] (33.196 (13.6 - 10.0 -	0 1 0000
25 Cousselor turney 15054 122112 0000 00000 0009 00000 0009 00000 00090 00000 00090 00000 00000 00000 00000 00000 00000 0000	0 10000
26 Torrena timout 131878	0 10000
1947/77 19870418 199720 1109840 1198 888 13 07 186 117 500 0000 0.3101 0.3269 0.3420 0.3355 0.3022 0.3634 0.5127 0.6279 0.6434 0.6354 0.6127 0.6279 0.6434 0.6354 0.6127 0.6279 0.6434 0.6354 0.6127 0.6279 0.6434 0.6127 0.6279 0.644 0.6127 0.6279 0.6434 0.6127 0.6279 0.644 0.6127 0.644 0.6127 0.	7 1.0000

.

CRSP rates used in this table are \$0095 per KWH plus \$48.48 per year per KW. Navajo Dam OM&R estimated at \$1.00 per acre-foot, Gallup's share assumed iacluded in payments to Jicarilla Apache Nation; therefore Jicarilla assumed to pay both Jicarilla and Gallup OM&R directly to dam operator.

Table D6, page 2 Navajo - Gallup Water Supply Project San Juan River PNM Alternative - 2040 Allocation of Annual Variable O,M&R Costs by User CRSP Power Rates Jan-05 \$

									~	Navaio St	are of Va	riable O.M	&R Costs	by Year			~ ~		·····			····	
Reach	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2030	2035	2040	2045	2050	2055	2060-70
1	\$0	\$0	<b>\$</b> 0	\$0	\$0	\$0	<b>\$</b> 0	<b>\$</b> 0	\$0	\$0	\$0	\$635,734	\$651,500	\$667,657	\$684,215	\$701,184	\$792,551	\$895,825	\$1,012,555	\$1,012,555	\$1,012,555	\$1,012,555	\$1,012,555
2	\$0	\$0	<b>\$</b> 0	\$0	\$0	<b>\$</b> 0	\$0	\$0	<b>\$</b> 0	<b>\$</b> 0	\$0	\$151,058	\$154,804	\$158,643	\$162,577	\$166,609	\$188,319	\$212,858	\$240,595	\$240,595	\$240,595	\$240,595	\$240,595
3	\$0	\$0	\$0	\$0	<b>\$</b> 0	<b>\$</b> 0	\$0	\$0	\$0	<b>\$</b> 0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	<b>\$</b> 0	\$0	\$0	\$0	\$0
4	<b>\$</b> 0	\$0	\$0	\$0	\$0	\$0	\$0	<b>\$</b> 0	\$0	<b>\$</b> 0	\$0	\$190,981	\$195,692	\$200,520	\$205,468	\$210,539	\$237,841	\$268,702	\$303,583	\$303,583	\$303,583	\$303,583	\$303,583
5	\$0	\$0	\$0	\$0	<b>\$</b> 0	<b>\$</b> 0	\$0	\$0	\$0	\$0	\$0	\$0	<b>\$</b> 0	\$0	\$0	\$0	\$0	<b>\$</b> 0	<b>\$</b> 0	\$0	\$0	<b>\$</b> 0	\$0
°	30	\$0	<b>\$</b> 0	\$0	\$0	\$0	<b>\$</b> 0	\$0	\$0	\$0	\$0	\$2,139	\$2,173	\$2,207	\$2,241	\$2,277	\$2,469	\$2,686	\$2,932	\$2,932	\$2,932	\$2,932	\$2,932
	<b>\$</b> 0	<b>\$</b> 0	30	<b>\$</b> 0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$68,810	\$70,507	\$72,246	\$74,029	\$75,855	\$85,690	\$96,806	\$109,370	\$109,370	\$109,370	\$109,370	\$109,370
	<b>1</b> 0	30	<b>\$</b> 0	\$0	\$0	\$0	<b>\$</b> 0	\$0	\$0	\$0	\$0	\$56,346	\$57,722	\$59,132	\$60,578	\$62,059	\$70,034	\$79,048	\$89,236	\$89,236	\$89,236	\$89,236	\$89,236
10	30 10	<b>a</b> 0	30	<b>3</b> 0	\$0 •0	10	\$0	<b>\$</b> 0	\$0	<b>\$</b> 0	\$0	\$90,373	\$92,586	\$94,854	\$97,178	\$99,560	\$112,385	\$126,881	\$143,266	\$143,266	\$143,266	\$143,266	\$143,266
10	10 10	\$0 \$0	30 \$0	\$0 \$0	10 10	\$0		340 111710	41.710	30	30	10	\$0	\$0	\$0 •===	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
12	<b>5</b> 0	\$0 \$0	40 40	\$0	10 10	\$13,005	\$12,680	\$19,710	\$13,110	\$19,710	\$14,710	\$05,404 \$73,048	\$00,995	\$08,625	\$70,295	\$72,007	\$81,324	391,642	\$103,418	\$103,418	\$103,418	\$103,418	\$103,418
13	so So	\$0	\$0	\$0 \$0		412,005 60	\$12,000	\$12,331	\$12,919	\$12,203	\$12,144	\$72,008	\$13,830 \$0	\$/5,087	\$77,504	\$79,486 \$0	369,845	\$101,555	\$114,780	\$114,780	\$114,780	\$114,786	\$11+,780
14	\$0	50	ŝ	ŝõ	<b>s</b> ∩	\$4 963	\$4 914	\$1.864	\$1.813	\$4 761	\$1 707	\$10.126	\$10 377	\$10,634	\$10.909	40 111168	\$12.624	\$11.260	\$16 129	\$16 179	\$16 129	4U 129	16 120
		•	•••	•	•	4.,	•	41,001	¥1,015	41,101	4.00	<b>4</b> 10,120	410,577	410,004	<b>4</b> 10,030	<b>#</b> 11,100	112,024	\$19,209	\$10,120	\$10,120	\$10,120	\$10,120	\$10,120
10.1	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	<b>\$</b> 0	\$7,858	\$8,052	\$8,252	\$8,457	\$8,667	\$9,796	\$11,072	\$12,515	\$12,515	\$12,515	\$12,515	\$12,515
10.2	<b>\$</b> 0	\$0	<b>\$</b> 0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$8,089	\$8,289	\$8,495	\$8,705	\$8,921	\$10,084	\$11,398	\$12,883	\$12,883	\$12,883	\$12,883	\$12,883
10.3	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$14,967	\$15,339	\$15,719	\$16,109	\$16,508	\$18,659	\$21,091	\$23,839	\$23,839	\$23,839	\$23,839	\$23,839
121	\$0	\$0	\$0	\$0	<b>\$</b> 0	<b>\$</b> 0	\$0	\$0	\$0	*0	<b>5</b> 0	\$31.460	415 610	#16 100	£17 100	£10.007	£41.000	£01.077	*** 000			*** 000	*** 202
12.2	\$0	50	\$0	50	\$0	\$0	<b>\$</b> 0	\$0 \$0	ŝ	ŝ	\$0	\$35,886	\$36,776	\$37.688	\$38.623	\$30,521	\$43,200 \$44,738	\$111 151	\$53,302	\$57,202	\$57,202	\$55,202	\$55,202
			·	•	•	•	•	•	•	••	••	400,000	400,770	\$57,000	450,025	457,501	444,750	•••••	<b>4</b> 57,157	451,151	457,157	<b>\$</b> 57,157	457,157
21	\$0	\$0	\$0	\$67,473	\$69,146	\$70,861	\$72,618	\$74,419	\$76.265	\$78,156	\$80.095	\$82.081	\$84,117	\$86 203	\$88.341	\$90 531	\$102.328	\$115.662	\$130,733	\$130.733	\$130.733	\$130 733	\$130,733
22	\$0	\$0	\$0	\$45,587	\$46,711	\$47,863	\$49,044	\$50,254	\$51,495	\$52,765	\$54,068	\$55,403	\$56,770	\$58,172	\$59.609	\$61.081	\$69.007	\$77.967	\$88.094	\$88.094	\$88.094	\$88.094	\$88.094
23	\$0	\$0	<b>\$</b> 0	\$11,001	\$11,260	\$11,526	\$11,798	\$12,077	\$12,363	\$12,655	\$12,955	\$13,263	\$13,578	\$13,901	\$14,232	\$14,571	\$16,397	\$18,462	\$20,795	\$20,795	\$20.795	\$20,795	\$20,795
24	\$0	\$0	\$0	\$12,833	\$13,151	\$13,477	\$13,812	\$14,154	\$14,505	\$14,865	\$15,234	\$15,611	\$15,998	\$16,395	\$16,802	\$17,219	\$19,462	\$21,998	\$24,865	\$24,865	\$24,865	\$24,865	\$24,865
25	\$0	\$0	\$0	\$14,016	\$14,363	\$14,719	\$15,084	\$15,458	\$15,842	\$16,235	\$16,637	\$17,050	\$17,473	\$17,906	\$18,350	\$18,805	\$21,256	\$24,025	\$27,156	\$27,156	\$27 156	\$27,156	\$27,156
26	\$0	\$0	\$0	\$2,001	\$2,051	\$2,102	\$2,154	\$2,208	\$2,262	\$2,318	\$2,376	\$2,435	\$2,495	\$2,557	\$2,620	\$2,685	\$3,035	\$3,431	\$3,878	\$3,878	\$3,878	\$3,878	\$3,878
Total	\$0	\$0	\$0	\$152,911	\$156,683	\$193,027	\$196,815	\$200,696	\$204,673	\$208,749	\$212,926	\$1,630,341	\$1,670,618	\$1,711,894	\$1,754,193	\$1,797,542	\$2,030,954	\$2,400,803	\$2,592,986	\$2,592,986	\$2,592,986	\$2,592,986	\$2,592,986

Table D6, page 3 Navajo - Gallup Water Supply Project San Juan River PNM Alternative - 2040 Allocation of Annual Variable O,M&R Costs by User CRSP Power Rates Jan-05 \$

										Gallup Sh	are of Va	riable O,M	&R Costs	by Year							*/		
Reac	h 2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2030	2035	2040	2045	2050	2055	2060-70
1	\$0	\$0	\$0	\$0	<b>\$</b> 0	\$0	\$0	\$0	\$0	<b>\$</b> 0	\$0	\$290,883	\$290,883	\$290,883	\$290,883	\$290,883	\$290,883	\$290,883	\$290,883	\$290,883	\$290,883	\$290,883	\$290,883
2	<b>\$</b> 0	<b>\$</b> 0	\$0	<b>\$</b> 0	<b>\$</b> 0	<b>\$</b> 0	\$0	\$0	\$0	\$0	\$0	\$70,899	\$70,899	\$70,899	\$70,899	\$70,899	\$70,899	\$70,899	\$70,899	\$70,899	\$70,899	\$70,899	\$70,899
3	<b>\$</b> 0	\$0	\$0	<b>\$</b> 0	<b>\$</b> 0	<b>\$</b> 0	\$0	<b>\$</b> 0	\$0	<b>\$</b> 0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
+	\$0	\$0	<b>\$</b> 0	<b>\$</b> 0	<b>\$</b> 0	<b>\$</b> 0	\$0	<b>\$</b> 0	\$0	\$0	\$0	\$106,189	\$106,189	\$106,189	\$106,189	\$106,189	\$106,189	\$106,189	\$106,189	\$106,189	\$106,189	\$106,189	\$106,189
5	<b>\$</b> 0	\$0	<b>\$</b> 0	<b>\$</b> 0	<b>\$</b> 0	<b>\$</b> 0	<b>\$</b> 0	\$0	\$0	<b>\$</b> 0	<b>\$</b> 0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
6	<b>\$</b> 0	\$0	<b>\$</b> 0	<b>\$</b> 0	<b>\$</b> 0	\$0	<b>\$</b> 0	\$0	\$0	<b>\$</b> 0	\$0	\$0	<b>\$</b> 0	\$0	\$0	\$0	<b>\$</b> 0	\$0	\$0	<b>\$</b> 0	\$0	\$0	\$0
7	\$0	<b>\$</b> 0	<b>\$</b> 0	<b>\$</b> 0	\$0	<b>\$</b> 0	\$0	\$0	50	\$0	\$0	\$42,508	\$42,508	\$42,508	\$42,508	\$42,508	\$42,508	\$42,508	\$42,508	\$42,508	\$42,508	\$42,508	\$42,508
8	<b>\$</b> 0	<b>\$</b> 0	\$0	<b>\$</b> 0	\$0	\$0	<b>\$</b> 0	\$0	\$0	\$0	<b>\$</b> 0	\$34,648	\$34,648	\$34,648	\$34,648	\$34,648	\$34,648	\$34,648	\$34,648	\$34,648	\$34,648	\$34,648	\$34,648
9	\$0	<b>\$</b> 0	<b>\$</b> 0	\$0	<b>\$</b> 0	<b>\$</b> 0	<b>\$</b> 0	<b>\$</b> 0	<b>\$</b> 0	\$0	<b>\$</b> 0	\$58,709	\$58,709	\$58,709	\$58,709	\$58,709	\$58,709	\$58,709	\$58,709	\$58,709	\$58,709	\$58,709	\$58,709
10	\$0	<b>\$</b> 0	\$0	<b>\$</b> 0	\$0	<b>\$</b> 0	<b>\$</b> 0	<b>\$</b> 0	\$0	\$0	\$0	<b>\$</b> 0	\$0	\$0	\$0	<b>\$</b> 0	<b>\$</b> 0	<b>\$</b> 0	\$0	<b>\$</b> 0	\$0	\$0	\$0
1 11	<b>\$</b> 0	<b>\$</b> 0	<b>\$</b> 0	<b>\$</b> 0	<b>\$</b> 0	<b>\$</b> 0	<b>\$</b> 0	\$0	<b>\$</b> 0	<b>\$</b> 0	\$0	\$53,896	\$53,896	\$53,896	\$53,896	\$53,896	\$53,896	\$53,896	\$53,896	\$53,896	\$53,896	\$53,896	\$53,896
12	<b>\$</b> 0	<b>\$</b> 0	\$0	\$0	\$0	<b>\$</b> 0	\$0	<b>\$</b> 0	<b>\$</b> 0	<b>\$</b> 0	\$0	\$67,049	\$67,049	\$67,049	\$67,049	\$67,049	\$67,049	\$67,049	\$67,049	\$67,049	\$67,049	\$67,049	\$67,049
13	\$0	\$0	<b>\$</b> 0	\$0	\$0	<b>\$</b> 0	<b>\$</b> 0	<b>\$</b> 0	\$0	\$0	\$0	<b>\$</b> 0	<b>\$</b> 0	\$0	<b>\$</b> 0	<b>\$</b> 0	<b>\$</b> 0	<b>\$</b> 0	\$0	\$0	<b>\$</b> 0	\$0	\$0
14	\$0	\$0	<b>\$</b> 0	\$0	<b>\$</b> 0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	<b>\$</b> 0	\$0	\$0	<b>\$</b> 0	<b>\$</b> 0	<b>\$</b> 0	\$0
10.1	*0	*0	*0		*0	**	•••	**															
10.1	1 10	40 #0	\$U \$0	\$U \$0	<b>3</b> 0	30	<b>3</b> 0	¥0	30	10	30	\$0	30	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	30
10.2	10 <b>1</b> 0	30	\$U \$0	\$U \$0	¥0	30	<b>1</b> 0	\$U	\$U \$0	30	30	30	20	\$0	20	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
10.5	<b>,</b>	\$0	<b>a</b> 0	<b>3</b> 0	a0	a0	30	<b>\$</b> 0	20	\$0	<b>\$</b> 0	30	<b>\$</b> 0	<b>\$</b> 0	\$0	<b>\$</b> 0	<b>\$</b> 0	\$0	\$0	\$0	\$0	\$0	20
121	10	<b>5</b> 0	<b>\$</b> 0	50	\$0	<b>5</b> 0	<b>5</b> 0	<b>5</b> 0	<b>\$</b> 0	\$0	*0	<b>t</b> 0	10	*0	<b>5</b> 0		<b>t</b> 0	•0	•0	*0	*0	*0	•0
12.2	, <b>i</b> o	50	10	\$0 \$0	\$0 \$0	*0	40 40	*0	40 60	50	40 40	10	10	10	40 \$0	\$0 \$0	10	40	*0	10	30	10	10
1		<b>4</b> 0			40	10	10	30	10	40	10	10	<b>3</b> 0	¢0	<b>\$</b> 0	30	<b>a</b> 0	<b>\$</b> 0	\$0	30	30	<b>a</b> 0	<b>a</b> 0
1																							
21	\$0	\$0	\$0	<b>\$</b> 0	*0	<b>t</b> 0	<b>t</b> 0	*0	<b>\$</b> 0	*0	•0	*0	*0	•0		*0	*0	*0	*0	*0	•0	•0	*0
22	\$0	<b>1</b> 0	\$0	*0	40 40	#0 #0	*0	*0	\$0 \$0	10	40 40	10	\$0 \$0	30 10	40 10	30 80	10 10	30	30	3U #/1	30	30	au •0
23	50	50	10	\$0	10 10	10 10	\$0	50	10	\$0 \$0	40 40	40	40 50	40 10	40 60	\$0 10	\$0 \$0	\$0 \$0	10	\$0 \$0	\$0 \$0	10	30
24	50	50	50	\$0 \$0	<b>1</b> 0	40 50	40 \$0	*0	10	\$0 \$0	10 10	\$0 \$0	\$0 \$0	10 10	30 \$0	30 \$0	\$0 \$0	<b>\$</b> 0	\$0 \$0	3U 10	\$U \$0	<b>1</b> 0	*0
25	50	• •	10	50	40 10	40 10	40 50	\$0	10 10	10 10	40	40 40	10	40 10	40 10	30 10	\$0 \$0	\$0 \$0	\$0 \$0	3U 10	\$0 \$0	40 10	<b>\$</b> 0
26	\$0	\$0	\$0	\$0	<b>₽</b> 0 \$0	10 10	50	\$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	10 10	30 50	30 50	30 \$0	30 10	30 \$0	\$0 \$0	\$U \$0	\$0 \$0	30	30 60
Tota	1 <b>S</b> O	\$0	\$0	\$0	\$0	\$0	\$0	50	10		50	\$724 781	\$724 781	\$724 781	\$724 781	\$724.781	\$724 781	\$72.1.781	\$724 781	\$724 781	\$724 781	\$724 781	\$724.781

Table D6, page 4 Navajo - Gallup Water Supply Project San Juan River PNM Alternative - 2040 Allocation of Annual Variable O,M&R Costs by User CRSP Power Rates Jan-05 \$

						~ .			Jica	rilla Sha	re of Van	iable O,	M&R Co	sta by Ye	ar								
Reach	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2030	2035	2040	2045	2050	2055	2060
1	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	<b>\$</b> 0	\$7,501	\$7,501	\$7,501	\$7,501	\$7,501	\$7,501	\$7,501	\$7,501	\$7,501	\$7,501	\$7,501	\$7,501
2	\$0	\$0	\$0	\$0	<b>\$</b> 0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	<b>\$</b> 0	\$0	\$0	\$0	\$0
3	\$0	\$0	\$0	\$0	\$0	\$0	· \$0	\$0	\$0	\$0	\$0	<b>\$</b> 0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
4	\$0	<b>\$</b> 0	<b>\$</b> 0	<b>\$</b> 0	<b>\$</b> 0	\$0	\$0	<b>\$</b> 0	<b>\$</b> 0	\$0	<b>\$</b> 0	<b>\$</b> 0	<b>\$</b> 0	<b>\$</b> 0	\$0	<b>\$</b> 0	<b>\$</b> 0	\$0	\$0	\$0	\$0	\$0	<b>\$</b> 0
5	\$0	\$0	\$0	\$0	\$0	\$0	\$0	<b>\$</b> 0	\$0	\$0	<b>\$</b> 0	\$0	\$0	<b>\$</b> 0	<b>\$</b> 0	<b>\$</b> 0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
6	\$0	<b>\$</b> 0	\$0	\$0	\$0	\$0	<b>\$</b> 0	<b>\$</b> 0	<b>\$</b> 0	\$0	\$0	<b>\$</b> 0	\$0	\$0	\$0	<b>\$</b> 0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
7	\$0	\$0	\$0	\$0	<b>\$</b> 0	\$0	\$0	\$0	\$0	\$0	<b>\$</b> 0	<b>\$</b> 0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	10	30
8	\$0	<b>\$</b> 0	\$0	\$0	\$0	\$0	<b>\$</b> 0	\$0	\$0	\$0	<b>\$</b> 0	<b>\$</b> 0	\$0	\$0	\$0	<b>\$</b> 0	\$0	\$0	\$0	\$0	\$0	10	\$0
9	\$0	\$0	\$0	\$0	<b>\$</b> 0	<b>\$</b> 0	<b>\$</b> 0	\$0	<b>\$</b> 0	\$0	<b>\$</b> 0	\$0	\$0	\$0	<b>\$</b> 0	\$0	\$0	20	\$0	\$0	10	10	<b>3</b> 0
10	\$0	<b>\$</b> 0	\$0	<b>\$</b> 0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	30	10	30	20	<b>3</b> 0
11	\$0	\$0	<b>\$</b> 0	<b>\$</b> 0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	30	<b>1</b> 0	30	30	30 60
12	<b>\$</b> 0	\$0	<b>\$</b> 0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	<b>\$</b> 0	\$0	\$0	\$0	\$0	30	¥0	<b>4</b> 0	\$U	40 #0	40 #0	30 60
13	<b>\$</b> 0	\$0	<b>\$</b> 0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	30	¥0	30	¥0	\$U \$0	4U #0	\$0 #0	40 40	30
14	<b>\$</b> 0	<b>\$</b> 0	<b>\$</b> 0	<b>\$</b> 0	<b>\$</b> 0	\$0	\$0	\$0	\$0	20	<b>\$</b> 0	\$0	20	\$0	<b>\$</b> 0	20	\$0	\$U	<b>\$</b> 0	\$U	<b>\$</b> 0	<b>3</b> 0	<b>a</b> 0
1		*0	*0	*0	*0	*0	*0	<b>*</b> 0	•0	<b>4</b> 0	*0	*0	\$0	\$0	\$0	<b>5</b> 0	<b>\$</b> 0	\$0	\$0	\$0	\$0	\$0	\$0
1 10.1	30	30	\$U \$0	30	10	10	\$0 \$0	40	40 40	\$0 \$0	40 40	10	10	40 40	40 40	*0	50	\$0	<b>1</b> 0	50	so	\$0	\$0
10.2	<b>3</b> 0	<b>4</b> 0	\$0 \$0	\$0 \$0	10	40 \$0	40	\$0 \$0	40 50	40 \$0	10	40 60	40 40	40 40	50	<b>1</b> 0	\$0	50	\$0 \$0	50	ŝ	\$0	\$0
10.5	<b>2</b> 0	<b>2</b> 0	10	<b>a</b> 0	30	30	<b>a</b> 0	40	40	<b>\$</b> 0	40	<b>4</b> 0	40	40	40		40	40		••	•0	40	•**
i																							
1 121	*0	*0	*0	•0	*0	\$0	*0	<b>4</b> 0	\$0	\$0	<b>\$</b> 0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	<b>\$</b> 0	<b>\$</b> 0	\$0
12.1	40 40	\$0 \$0	10 10	\$0 \$0	40 \$0	40 50	10 10	40 50	\$0 \$0	10	50	\$0	10	\$0	\$0	\$0	\$0	50	50	50	<b>S</b> O	\$0	\$0
12.2	10	40	10	10	\$0	10	40	40	40	•0		40	40	•0	40	40	•	••	•••	••	•-	•-	•-
	•0	•0	•0	# 15 10P	*** 100	* 14 10a	* + E + O P	# 15 10P	# 15 10P	# 1E 108	445 10P	C 15 108	CAE 108	\$ 45 408	\$15.008	\$15.108	\$45,108	\$15.108	\$45.408	\$115 JO8	\$45.108	\$15 108	\$45.108
21	\$0 \$0	\$0 \$0	\$0 \$0	\$10,263	\$40,408	\$10.243	\$45,408	\$30.263	\$10 261	\$30.263	\$30,263	\$30,263	\$30,263	\$30.263	\$30.263	\$30,263	\$30,263	\$10 263	\$30,263	\$30 263	\$30 263	\$30 263	\$30 263
22	\$U \$0	30	3-U 15-0	\$30,203	\$30,203	\$20,203	\$7,002	\$7,002	\$7,002	\$7,092	\$7,002	\$7,002	\$7,092	\$7,092	\$7,092	\$7,092	\$7.092	\$7,092	\$7.092	\$7 092	\$7.092	\$7.092	\$7,092
25	\$0 •0	3U \$0	\$0 \$0	\$11,601	\$11,692	\$11,621	\$11,621	\$11.521	\$11,521	\$11 521	\$11.521	\$11.521	\$11.521	\$11.521	\$11.521	\$11.521	\$11 521	\$11 521	\$11 521	\$11.521	\$11.521	\$11.521	\$11.521
24	\$0 \$0	\$0 \$0	\$0 \$0	a11,521 40	126,114 10	411,521 \$0	411,521 \$0	411,521 \$0	411,321 \$0	\$11,321 \$0	411,521 \$0	411,521 \$0	12C,114 60	\$0	\$0. 10	\$11,521 \$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
20	\$0 \$0	\$0 \$0	40 60	40 \$0	40 40	10 50	10 50	50		40 10	10 10	\$0	<b>4</b> ℃ \$0	40 \$0	50	\$0 \$0	ŝ	50	ŝ	<b>\$</b> 0	\$0	50	50
140			- 10 10	\$04.281	\$04.284	\$04.284	\$04.284	\$04 284	\$04 284	\$94 28.1	\$94 284	\$101 785	\$101 785	\$101 785	\$101 785	\$101 785	\$101 785	\$101 785	\$101 785	\$101.785	\$101 785	\$101.785	\$101.785

# Table D7, page 1 Navajo - Gallup Water Supply Project San Juan River PNM Alternative - 2040 Allocation of Annual Variable O,M&R Costs by User NTUA Power Rates Jan-05 \$

Г

Sam Juan Branch         Openet Variable OM&RK         Joint Variable OM&RK at Design Capacity         Projected Flow as a Percentage of Design Flow by Yer           Read         End         Teament Plant (WTP)         WTP			Dedicated																															
San Juan Branch         Joint Vanako OMRK Al Derign Capacity (UN Vanako OMRK Al Derign Ca			Variable OM&R	r																														
Data         Data         Data         Write         Write         Write         Write         Write         View         The stage of	C		Costs at Design		Joi	int Varia	able O,M&R	at Design	Capacity	1	4																							
Image: Instant         Booker (Pump Energy         Energy <th>San Jua</th> <th>n Branch</th> <th>Capacity (all Navajo)</th> <th>Pump Pla</th> <th>nt W.</th> <th>TP</th> <th>WTP</th> <th>WTP</th> <th></th> <th>Navajo Dam</th> <th>4</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>F</th> <th>rojecte</th> <th>1 Flow a</th> <th>is a Pero</th> <th>entage</th> <th>e of Des</th> <th>ign Flo</th> <th>w by Ye</th> <th>ar</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>	San Jua	n Branch	Capacity (all Navajo)	Pump Pla	nt W.	TP	WTP	WTP		Navajo Dam	4								F	rojecte	1 Flow a	is a Pero	entage	e of Des	ign Flo	w by Ye	ar							
1         writer restment primet (writer)         19,794         \$512,573         \$147,381         \$17,4987         \$122,573         \$123,573         \$123,573         \$123,573         \$123,573         \$123,573         \$123,573         \$123,573         \$123,573         \$123,57	Keach	End	Booster Pump Energy	Energy	Ene	rgy (	Chemicals	Misc.	Total	OM&R	- 1.2	010 2	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2030	2035	2040	2045	2050	2055	2060-70
2       NAPL Brook       1921,270       1921,270       0,0000 <th>2</th> <th>Water Treatment Plant (WTP)</th> <th></th> <th>\$93,7</th> <th>94 \$51</th> <th>11,354</th> <th>\$962,457</th> <th>\$147,381</th> <th>\$1,714,987</th> <th>\$32,955</th> <th>5 0</th> <th>.0000 0</th> <th>0.0000</th> <th>0.0000</th> <th>0,0000</th> <th>0,0000</th> <th>0.0000</th> <th>0.0000</th> <th>0.0000</th> <th>0.0000</th> <th>0.0000</th> <th>0.0000</th> <th>0.7126</th> <th>0.7246</th> <th>0.7369</th> <th>0.7495</th> <th>0.7625</th> <th>0.8322</th> <th>0.9110</th> <th>1.0000</th> <th>1.0000</th> <th>1.0000</th> <th>1.0000</th> <th>1.0000</th>	2	Water Treatment Plant (WTP)		\$93,7	94 \$51	11,354	\$962,457	\$147,381	\$1,714,987	\$32,955	5 0	.0000 0	0.0000	0.0000	0,0000	0,0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.7126	0.7246	0.7369	0.7495	0.7625	0.8322	0.9110	1.0000	1.0000	1.0000	1.0000	1.0000
3         Simplexic function         11         11,200,523	2	NAPI Remout	1	\$921,2	70				\$921,270	, ,	1 0	.0000_0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.7126	0.7246	0.7369	0.7495	0.7625	0.8322	0.9110	1.0000	1.0000	1.0000	1.0000	1.0000
*         Sindate summary         \$1,20,23         \$1,20,24         \$1,20,23         \$1,20,23	3	Shiprock Junction							\$0		0	.0000 0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.7140	0.7259	0.7382	0.7508	0.7636	0.8330	0.9114	1.0000	1.0000	1.0000	1.0000	1.0000
5         Domman junction         60         0,0000<	1	Sanostee turnout	\$11,411	\$1,200,5	23				\$1,200,523		0	.0000_0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.7252	0.7367	0.7485	0.7606	0.7729	0.8396	0.9149	1.0000	1.0000	1.0000	1.0000	1.0000
6         Newcomb Ourosuf         34,673         50         0,0000<	3	Burnham Junchon							\$0	1	0	.0000 0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.7291	0.7405	0.7521	0.7640	0.7762	0.8419	0.9161	1.0000	1,0000	1.0000	1.0000	1.0000
/         Sacetyperger tuncout         33,994         3445,199         445,199         445,199         6445,199         0.0000        0.0000        0.0000	0	Newcomb turnout	\$8,6/3						\$0	4	0	.0000 0	00000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.7297	0.7410	0.7526	0,7645	0.7766	0.8422	0.9163	1.0000	1.0000	1.0000	1.0000	1.0000
s         Natchild turnout         337,554         337,554         (357,554)         (0,0000         0,0000		Sheepsprings turnout	\$3,994	\$445,1	99				\$445,199	1	0	.0000 0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.7329	0.7441	0.7556	0.7673	0.7793	0.8441	0.9173	1.0000	1.0000	1.0000	1,0000	1.0000
9         1 obaicult turnout         \$11,354         \$386,064         \$386,064         0,0000	8	Naschith furnout	\$8,844	\$357,5	54				\$357,554	•	0	.0000 0	0,0000	0.0000	0,0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.7345	0.7456	0.7570	0.7687	0.7806	0.8450	0.9178	1,0000	1.0000	1.0000	1.0000	1.0000
10       Coyote Canyon Junction       \$10,727       \$145,541       \$145,541       \$10,727       \$153,7794       \$1537,794       \$1537,794       \$1537,794       \$1537,794       \$10,000       0.0000       0	9	Tohatchu turnout	\$11,354	\$586,0	04				\$586,004		0	.0000_0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.7381	0.7491	0.7603	0.7718	0.7836	0.8471	0.9189	1.0000	1.0000	1.0000	1.0000	1.0000
11       Twia Lakes turnout       \$10,727       \$454,541       0.0000       0.	10	Coyote Canyon Junction	1						\$0	1	0	.0000_0	0.0000	0.0000	0.0000	0.0000	0,0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.7432	0.7539	0,7649	0.7762	0.7878	0.8501	0.9204	1.0000	1.0000	1.0000	1.0000	1.0000
12       Y=4=he/by/junction       \$537,794       \$537,794       \$537,794       0.0000       0.0000       0.0000       0.0006       0.0006       0.0006       0.0006       0.0006       0.0006       0.0006       0.0006       0.0000 <td< th=""><th>11</th><th>Twin Lakes turnout</th><th>\$10,727</th><th>\$454,5</th><th>41</th><th></th><th></th><th></th><th>\$454,541</th><th></th><th>0</th><th>0 0000</th><th>0.0000.0</th><th>0.0000</th><th>0,0000</th><th>0.0000</th><th>0.0935</th><th>0.0935</th><th>0.0935</th><th>0.0935</th><th>0.0935</th><th>0.0935</th><th>0.7584</th><th>0.7685</th><th>0.7788</th><th>0.7894</th><th>0.8003</th><th>0.8589</th><th>0.9251</th><th>1.0000</th><th>1.0000</th><th>1.0000</th><th>1.0000</th><th>1.0000</th></td<>	11	Twin Lakes turnout	\$10,727	\$454,5	41				\$454,541		0	0 0000	0.0000.0	0.0000	0,0000	0.0000	0.0935	0.0935	0.0935	0.0935	0.0935	0.0935	0.7584	0.7685	0.7788	0.7894	0.8003	0.8589	0.9251	1.0000	1.0000	1.0000	1.0000	1.0000
13       Gallup Junction       \$1       Gallup Junction       Ga	12	Ya-ta-hey Junction		\$537,7	94				\$537,794	·	0.	00000 0	0.0000.	0.0000	0.0000	0.0000	0.0704	0.0697	0.0690	0.0683	0.0676	0.0668	0.7651	0.7749	0.7850	0.7953	0.8059	0.8628	0.9272	1.0000	1.0000	1,0000	1.0000	1.0000
14       Navajo Chapters       \$47,098       \$0       0.0000	13	Gallup Junction	1						\$0		0.	0000 0	0000.0	0.0000	0.0000	0.0000	0.1178	0.1167	0.1155	0.1143	0.1130	0.1118	0.8575	0.8634	0.8696	0.8758	0.8822	0.9168	0.9559	1.0000	1.0000	1.0000	1.0000	1.0000
10.1         Coyote Casyon turnout         \$7,075         \$29,940         \$37,304         \$31,6,517         \$30,000 <th>14</th> <th>Navajo Chapters</th> <th>\$47,698</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>\$0</th> <th></th> <th>0.</th> <th>0000 0</th> <th>0.0000</th> <th>0.0000</th> <th>0.0000</th> <th>0.0000</th> <th>0.3077</th> <th>0.3047</th> <th>0.3016</th> <th>0.2984</th> <th>0.2952</th> <th>0.2918</th> <th>0.6279</th> <th>0.6434</th> <th>0.6594</th> <th>0.6757</th> <th>0.6925</th> <th>0.7827</th> <th>0.8847</th> <th>1.0000</th> <th>1.0000</th> <th>1.0000</th> <th>1.0000</th> <th>1.0000</th>	14	Navajo Chapters	\$47,698						\$0		0.	0000 0	0.0000	0.0000	0.0000	0.0000	0.3077	0.3047	0.3016	0.2984	0.2952	0.2918	0.6279	0.6434	0.6594	0.6757	0.6925	0.7827	0.8847	1.0000	1.0000	1.0000	1.0000	1.0000
10.1         Copyete Canyon turnout         \$7,075         \$22,940         \$29,940         \$29,940         \$29,940         \$29,940         \$29,940         \$29,940         \$29,940         \$29,940         \$29,940         \$29,940         \$20,977         \$23,950         \$37,304         \$37,304         \$37,304         \$37,304         \$37,304         \$37,304         \$37,304         \$37,304         \$37,304         \$37,304         \$37,304         \$37,304         \$37,304         \$37,304         \$37,304         \$37,304         \$37,304         \$37,304         \$37,304         \$30000         \$0,0000																																		
10.2       Standing Rock turnout       \$7799       \$37,304       \$37,304       \$37,304       \$37,304       \$37,304       \$37,304       \$0,0000       0.0000	10.1	Coyote Canyon turnout	\$7,075	\$29,9	40				\$29,940		0	0000 0	0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.6779	പപ	0.6594	0.6757	0.6925	0.7827	0.8847	1.0000	1.0000	1.0000	1,0000	1 0000
10.3         Dalton Pass turnout         \$20,997         \$49,511         \$49,511         0,0000	10.2	Standing Rock turnout	\$799	\$37,3	04				\$37,304			0000 0	0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.6279	0.6131	0.6594	0.6757	0.6925	0.7827	0.8847	1,0000	1,0000	1,0000	1,0000	1,0000
12.1         Rock Springs turnout         \$145,064         \$145,064         \$145,064         \$145,064         \$103,373         0.0000 <th>10.3</th> <td>Dalton Pass tumout</td> <td>\$20,997</td> <td>\$49.5</td> <td>11</td> <td></td> <td></td> <td></td> <td>\$49 511</td> <td></td> <td></td> <td>0000 0</td> <td>0000</td> <td>0.0000</td> <td>0.0000</td> <td>0.0000</td> <td>0.0000</td> <td>0.0000</td> <td>0.0000</td> <td>0.0000</td> <td>0.0000</td> <td>0.0000</td> <td>0.6270</td> <td>0.0434</td> <td>0.6504</td> <td>0.0757</td> <td>0.6025</td> <td>0.7627</td> <td>0.8947</td> <td>1.0000</td> <td>1.0000</td> <td>1.0000</td> <td>1.0000</td> <td>1.0000</td>	10.3	Dalton Pass tumout	\$20,997	\$49.5	11				\$49 511			0000 0	0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.6270	0.0434	0.6504	0.0757	0.6025	0.7627	0.8947	1.0000	1.0000	1.0000	1.0000	1.0000
12.1         Rock Springs turnout         \$18,201         \$145,064         \$145,064         \$145,064         0.0000											"			0.0000	0.0000	0.11440	0.0000	0.0000	0.000	0.000	V.IAAA7	0.14447	0.0217	0.0404	0.0374	0.0757	0.0923	0.7827	0.0047	1,0000	1.0000	1,0000	1.0000	1.0000
Inc.         Inc. <th< th=""><th>17.1</th><th>Rock Springe turnout</th><th>\$18.201</th><th>*145.0</th><th></th><th></th><th></th><th></th><th></th><th>1</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></th<>	17.1	Rock Springe turnout	\$18.201	*145.0						1																								
12:2:         wildow kock umouit         105,5/2         1105,5/3         100,5/3         100,0/2         100,5/3         100,0/2	12.2	Window Back to mant	\$16,201	\$145,0	34 74				\$145,064	1	0.	0000 0	00000	0.0000	0.0000	0.0000	0.0000	0,0000	0,0000	0.0000	0.0000	0.0000	0.6279	0.6434	0.6594	0.6757	0.6925	0.7827	1.7078	1.0000	1.0000	1.0000	1.0000	1.0000
Cutter Branch		while who who children	\$00,072	\$105,5	/3				\$103,373		0.	0000 0	0000,	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.6279	0.6434	0.6594	0.6757	0.6925	0.7827	1.9447	1.0000	1.0000	1.0000	1.0000	1.0000
	Cutter E	ranch																																1
	21	WTP			54	1 010	\$136.153	¢10.019	1210.101				0000		0.4.000		0.4404	0.700		0 (000	0.7015													
22 Hurfano https:// 10.0000 1.	22	Huerfano humout	\$2.953	\$3.17.11	40 36	15,050	\$150,155	\$19,910	\$219,101	\$4,044		0000 0	.0000	0.0000	0.6409	0.6504	0.6601	0.6701	0.6803	0.6908	0.7015	0.7125	0.7238	0.7353	0.7472	0.7593	0.7718	0.8387	0.9144	1.0000	1.0000	1.0000	1.0000	1.0000
27) Naroveni humonut (\$5001 - 125 0/238 0.7953 0.71/8 0.8387 0.91/4 10000 1.000	21	Nagezi bezout	\$5,001	\$76.1					+J+7,193			0000 0		0.0000	0.6409	0.6504	0.6601	0.6701	0.6803	0.6908	0.7015	0.7125	0.7238	0.7353	0.7472	0.7593	0.7718	0.8387	0.9144	1.0000	1.0000	1.0000	1.0000	1.0000
24 United	24	licarilla tumout	\$5,991	\$107.6	16				\$/0,48/		0.	URARJ ().	0000	0.0000	0.0488	0.6581	0.6676	0.6774	0.6874	0.6976	0.7081	0.7189	0.7299	0.7412	0.7528	0.7647	0.7768	0.8423	0.9163	1.0000	1.0000	1.0000	1.0000	1.0000
25 Consider United 10000 10000 0.6673 0.7153 0.7252 0.7753 0.7672 0.7764 0.7899 0.8515 0.9212 10000 1.00000	25	Consider turnout	£1   0.10	\$107,0	1.0				107,015	1	0.	0000 0.	0000	0.0000	0.6693	0.6781	0.6870	0.6962	0.7056	0.7153	0.7252	0.7353	0.7457	0.7563	0.7672	0.7784	0.7899	0.8515	0.9212	1.0000	1.0000	1.0000	1.0000	1.0000
26 Contract function of the second se	26	Tormon turnout	\$14,949	\$05,50	10				\$05,368		0.	(AAA) ().	0000	0.0000	0.5161	0.5289	0.5420	0.5555	0.5692	0.5834	0.5978	0.6127	0.6279	0.6434	0.6594	0.6757	0.6925	0.7827	0.8847	1.0000	1.0000	1.0000	1.0000	1.0000
20 101001 00000 0000 0.5555 0.5692 0.5834 0.5978 0.6127 0.6279 0.6434 0.6594 0.6757 0.6925 0.7827 0.8847 1.0000 1.	20	roncon tumout	\$11,400	** ***		4 79 1	*1.008 <10	F1/7 000	\$0	A17.500	L <u>u</u>	0000 0	10000	0.0000	0.5161	U.5289	0.5420	0.5555	0.5692	0.5834	0.5978	0.6127	0.6279	0.6434	0.6594	0.6757	0.6925	0.7827	0.8847	1.0000	1.0000	1.0000	1.0000	1.0000

NTUA rates used in this table are \$.0200 per KWH plus \$198.00 per year per KW. Navajo Dam OM&R estimated at \$1.00 per acre-foot; Gallup's share assumed included in payments to Jicarilla Apache Nation; therefore Jicarilla assumed to pay both Jicarilla and Gallup OM&R directly to dam operator.

Table D7, page 2 Navajo - Gallup Water Supply Project San Juan River PNM Alternative - 2040 Allocation of Annual Variable O,M&R Costs by User NTUA Power Rates Jan-05 \$

										Navajo Sł	are of Va	riable O,M	L&R Costs	by Year									
_Reach	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2030	2035	2040	2045	2050	2055	2060-70
1	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$847,657	\$868,678	\$890,222	\$912,299	\$934,924	\$1,056,749	\$1,194,449	\$1,350,091	\$1,350,091	\$1,350,091	\$1,350,091	\$1,350,091
2	\$0	\$0	\$0	\$0	<b>\$</b> 0	\$0	\$0	\$0	\$0	\$0	\$0	\$446,766	\$457,846	\$469,200	\$480,836	\$492,761	\$556,970	\$629,546	\$711,579	\$711,579	\$711,579	\$711,579	\$711,579
3	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
4	\$0	\$0	<b>\$</b> 0	\$0 \$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$564,841	\$578,775	\$593,055	\$607,688	\$622,685	\$703,435	\$794,707	\$897,872	\$897,872	\$897,872	\$897,872	\$897,872
2	\$U \$0	30 10	30	<b>3</b> 0	<b>1</b> 0	\$0	30	¥0	\$0	\$0	<b>\$</b> 0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	<b>\$</b> 0	\$0	\$0	\$0	\$0
7	\$0 \$0	\$0 \$0	40 50	10 10	40 60	\$0 \$0	30	\$0 \$0	\$0 \$0	\$0 \$0	30 60	\$0,329	\$0,427	\$0,527	\$0,030	\$0,736	\$7,304	\$7,947	\$8,673	\$8,073	\$8,673	\$8,673	\$8,675
8	\$0	50	\$0	50	50	\$0	\$0	\$0	\$0 \$0	\$0 \$0	\$0 \$0	\$166.649	\$170,719	\$174,890	\$170 164	\$183 544	\$207 131	\$233,791	\$343,973	\$261,925	\$263.025	\$263 925	\$263 925
9	\$0	\$0	\$0	\$0	\$0	\$0	50	\$0	50	\$0	\$0	\$267 287	\$273 832	\$280 540	\$287.413	\$294 458	\$332 389	\$375 262	\$123 722	\$421 722	\$123 722	\$123 722	\$423 722
10	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	<b>\$</b> 0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
11	\$0	\$0	<b>\$</b> 0	\$0	\$0	\$43,506	\$43,506	\$43,506	\$43,506	\$43,506	\$43,506	\$193,438	\$198,142	\$202,962	\$207,902	\$212,965	\$240,225	\$271,038	\$305,865	\$305,865	\$305,865	\$305,865	\$305,865
12	\$0	<b>\$</b> 0	<b>\$</b> 0	<b>\$</b> 0	\$0	\$37,873	\$37,501	\$37,120	\$36,729	\$36,329	\$35,918	\$213,149	\$218,435	\$223,852	\$229,403	\$235,093	\$265,726	\$300,352	\$339,489	\$339,489	\$339,489	\$339,489	\$339,489
13	\$0	\$0	\$0	<b>\$</b> 0	\$0	\$0	<b>\$</b> 0	\$0	\$0	\$0	<b>\$</b> 0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
14	\$0	<b>\$</b> 0	<b>\$</b> 0	<b>\$</b> 0	<b>\$</b> 0	\$14,678	\$14,534	\$14,386	\$14,234	\$14,079	\$13,920	\$29,947	\$30,690	\$31,451	\$32,231	\$33,030	\$37,334	\$42,199	\$47,698	\$47,698	\$47,698	\$47,698	\$47,698
10.1	<b>\$</b> 0	\$0	<b>S</b> 0	\$0	<b>\$</b> 0	50	<b>\$</b> 0	\$23 240	\$23 816	\$24.407	\$25.012	\$25 633	\$28 973	112 748	\$37.015	\$37.015	137.015	\$37.015	\$37.015				
10.2	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	50	\$23,923	\$24,516	\$25,124	\$25,747	\$26.386	\$29.824	\$33,710	\$38,103	\$38,103	\$38,103	\$38,103	\$38,103
10.3	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$44,269	\$45,366	\$46,491	\$47,644	\$48,826	\$55,188	\$62,380	\$70,508	\$70,508	\$70,508	\$70,508	\$70,508
	*0	*0	•0	*0	**	•0	**	*0	**	**		****		****				*****					
12.1	40 \$0	\$0 \$0	\$0 \$0	\$0 \$0	30 \$0	30 \$0	\$0 \$0	30 50	\$0 \$0	\$0 \$0	\$U \$0	\$102,506	\$109,048	\$107,655	\$110,323	\$117,059	\$127,791	\$328,832	\$163,265	\$163,265	\$163,265	\$163,265	\$160,200
4.4	40	•	\$0	10	10	\$0	\$0	10	30	30	<b>a</b> 0	\$100,155	\$108,707	\$111,405	\$114,229	<b>3</b> 117,062	\$152,516	\$328,730	\$109,045	\$109,045	\$169,045	\$109,045	\$109,045
21	\$0	<b>S</b> O	\$0	\$85,708	\$87.834	\$90.012	\$92.244	\$94,532	<b>\$</b> 96 876	\$99 279	\$101 741	\$104 264	\$106.850	\$109 500	\$112.215	\$114.998	\$129 983	\$146 920	\$166.065	\$166.065	\$166.065	\$166.065	\$166.065
22	\$0	\$0	\$0	\$134,825	\$138.151	\$141.559	\$145.051	\$148,630	\$152.298	\$156.057	\$159.909	\$163.856	\$167,902	\$172.047	\$176.296	\$180.650	\$204.093	\$230,592	\$260.543	\$260.543	\$260,543	\$260,543	\$260,543
23	\$0	\$0	\$0	\$32,537	\$33,303	\$31,089	\$34,893	\$35,718	\$36,563	\$37,429	\$38,316	\$39,226	\$40,158	\$41,113	\$42.092	\$43,095	\$48,497	\$54,602	\$61,503	\$61,503	\$61,503	\$61,503	\$61,503
24	\$0	\$0	\$0	\$37,955	\$38,896	\$39,861	\$40,849	\$41,862	\$42,900	\$43,964	\$45,055	\$46,172	\$47,317	\$48,490	\$49,693	\$50,925	\$57,561	\$65,062	\$73,540	\$73,540	\$73,540	\$73,540	\$73,540
25	\$0	\$0	\$0	\$41,453	\$42,481	\$43,534	\$44,614	\$45,720	\$46,854	\$48,016	\$49,207	\$50,427	\$51,678	\$52,959	\$54,273	\$55,619	\$62,866	\$71,058	\$80,317	\$80,317	\$80,317	\$80,317	\$80,317
26	\$0	<b>\$</b> 0	\$0	\$5,919	\$6,066	\$6,216	\$6,370	\$6,528	\$6,690	\$6,856	\$7,026	\$7,200	\$7,379	\$7,562	\$7,749	\$7,941	\$8,976	\$10,146	\$11,468	\$11,468	\$11,468	\$11,468	\$11,468
Total	\$0	\$0	\$0	\$338,397	\$346,730	\$451,326	\$459,562	\$468,002	\$476,651	\$485,514	\$494,597	\$3,650,792	\$3,740,872	\$3,833,186	\$3,927,790	\$4,024,740	\$4,546,769	\$5,450,388	\$5,803,759	\$5,803,759	\$5,803,759	\$5,803,759	\$5,803,759

Table D7, page 3 Navajo - Galbup Water Supply Project San Juan River PNM Alternative - 2040 Allocation of Annual Variable O,M&R Costs by User NTUA Power Rates Jan-05 \$

Galluo Share of Variable O.M&R Costs by Year																							
Reach	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2030	2035	2040	20-45	2050	2055	2060-70
1	\$0	\$0	\$0	<b>\$</b> 0	\$0	\$0	\$0	\$0	\$0	\$0	<b>\$</b> 0	\$390,349	\$390,349	\$390,349	\$390,349	\$390,349	\$390,349	\$390,349	\$390,349	\$390,349	\$390,349	\$390,349	\$390,349
2	\$0	<b>\$</b> 0	\$0	<b>\$</b> 0	\$0	\$0	\$0	\$0	\$0	\$0	<b>\$</b> 0	\$209,691	\$209,691	\$209,691	\$209,691	\$209,691	\$209,691	\$209,691	\$209,691	\$209,691	\$209,691	\$209,691	\$209,691
3	\$0	<b>\$</b> 0	\$0	\$0	\$0	\$0	<b>\$</b> 0	\$0	\$0	\$0	\$0	-\$0	<b>\$</b> 0	\$0	<b>\$</b> 0	\$0	<b>\$</b> 0	<b>\$</b> 0	<b>\$</b> 0	\$0	\$0	<b>\$</b> 0	<b>\$</b> 0
4	\$0	\$0	\$0	\$0	<b>\$</b> 0	\$0	\$0	\$314,062	\$314,062	\$314,062	\$314,062	\$314,062	\$314,062	\$314,062	\$314,062	\$314,062	\$314,062	\$314,062	\$314,062				
5	<b>\$</b> 0	<b>\$</b> 0	\$0	<b>\$</b> 0	\$0	\$0	\$0	\$0	\$0	<b>\$</b> 0	\$0	<b>\$</b> 0	<b>\$</b> 0	<b>\$</b> 0	<b>\$</b> 0	\$0	<b>\$</b> 0	\$0					
6	<b>\$</b> 0	<b>\$</b> 0	<b>\$</b> 0	\$0	<b>\$</b> 0	\$0	<b>\$</b> 0	\$0	\$0	\$0	<b>\$</b> 0	<b>\$</b> 0	\$0	\$0	<b>\$</b> 0	\$0	<b>\$</b> 0	<b>\$</b> 0	<b>\$</b> 0	<b>\$</b> 0	\$0	\$0	<b>\$</b> 0
7	<b>\$</b> 0	\$0	\$0	\$0	\$0	<b>\$</b> 0	<b>\$</b> 0	\$0	<b>\$</b> 0	\$0	<b>\$</b> 0	\$125,720	\$125,720	\$125,720	\$125,720	\$125,720	\$125,720	\$125,720	\$125,720	\$125,720	\$125,720	\$125,720	\$125,720
8	<b>\$</b> 0	<b>\$</b> 0	\$0	\$0	\$0	\$0	<b>\$</b> 0	\$0	\$0	\$0	<b>\$</b> 0	\$102,473	\$102,473	\$102,473	\$102,473	\$102,473	\$102,473	\$102,473	\$102,473	\$102,473	\$102,473	\$102,473	\$102,473
9	\$0	\$0	<b>\$</b> 0	\$0	\$0	\$0	\$0	<b>\$</b> 0	\$0	\$0	\$0	\$173,636	\$173,636	\$173,636	\$173,636	\$173,636	\$173,636	\$173,636	\$173,636	\$173,636	\$173,636	\$173,636	\$1/3,636
10	<b>\$</b> 0	<b>\$</b> 0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	<b>\$</b> 0	<b>\$</b> 0	<b>\$</b> 0	<b>\$</b> 0	\$0	20	20	20	30	30	30	<b>3</b> 0
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$159,403	\$159,403	\$159,403	\$159,403	\$159,403	\$159,403	\$159,403	\$159,403	\$159,403	\$159,403	\$159,403	\$159,405
12	<b>\$</b> 0	<b>\$</b> 0	\$0	<b>\$</b> 0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$198,305	\$198,305	\$198,305	\$198,305	\$198,305	\$198,305	\$198,305	\$198,305	\$198,305	\$198,305	\$198,305	\$198,305
13	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	20	\$0	\$0	30	<b>1</b> 0	30	<b>3</b> 0	\$U	¥0	¥0	<b>3</b> 0	\$0 \$0	40 40
14	\$0	\$0	\$0	20	20	20	20	\$0	<b>\$</b> 0	\$0	20	<b>\$</b> 0	\$0	20	\$U	<b>3</b> 0	20	<b>2</b> 0	30	10	<b>\$</b> 0	<b>\$</b> 0	30
10.1	*0	*^	*^	•0	*^	*0	<b>\$</b> 0	*0	*0	*0	*0	*0	<b>t</b> 0	*0	<b>t</b> 0	<b>\$</b> 0	\$0	\$0	\$0	<b>\$</b> 0	\$0	50	50
10.1	30 \$0	10	30 \$0	10 10	30 10	40 40	40 60	10 10	40 \$0	\$0 \$0	40 10	40 40	10	10	40 10	40 \$0	50	<b>\$</b> 0	50	ŝ	10°	50	so
10.2	10 10	40 10	40	40	10	30 10	10 10	40 40	40 \$0	\$0 \$0	10	40 \$0	40 60	40 40	40 40	40 \$0	50	10 10	10	50	ល	50	50
10.5	•0	10	40	•0	10	•0	•0		40	40	**	40	•0	40	40	•	40	••	40	40	•••	40	
12.1	\$0	\$0	\$0	50	50	\$0	\$0	\$0	\$0	\$0	\$0	<b>\$</b> 0	50	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
12.2	50	#0 #0		*0	40 40	• •	<b>1</b> 0	\$0	<b>\$</b> 0	• •	\$0	<b>1</b> 0	40 60	10	50	r∾ \$0	<b>\$</b> 0	\$0 \$0	10	10	50	\$0	30
12.2	•0	•~	**	40	•	•0	•••	40	•0	•••	40		•0	40		•~	••	••	••	40	40	•••	
21	•0			•0		*0	*0	•0	*0	•0	*0	*0	<b>f</b> 0	*0	**	*0	*0	*^	*0	<b>t</b> 0	<b>t</b> 0	*0	<b>t</b> n
21	\$0 \$0	40 40	\$U	30	40	\$U \$0	\$0 \$0	30	\$0 \$0	\$0 •0	10	\$0 \$0	\$0 \$0	30 •0	10	10	40 40	40 *0	10	10	#0 #0	40	*0
21	90 50	\$U \$0	\$0 \$0	3U *0	30 RO	40 10	\$U \$0	\$0 \$0	40 40	30	\$0 \$0	40 10	\$0 \$0	10	10	\$0 \$0	40 40	\$0 \$0	10	\$0 \$0	*0	<b>\$</b> 0	40 60
23	40 60	\$0 \$0	30 \$0	30	30 \$0	20 10	\$0 \$0	\$0 \$0	30 \$0	\$0 \$0	30 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	30 50	30 \$0	30	10 10	30 \$0	40 \$0	10 10	50
24	10 10	30 \$0	40 50	40 10	30 50	10	\$0 \$0	\$0 \$0	40 40	30 \$0	10 10	10 10	40 10	\$0 \$0	10 10	40	40 40	40	40 10	40 10	\$0 \$0	<b>5</b> 0	50
25	40 40	10	30 80	\$0 \$0	\$0 \$0	40 40	10	\$0 \$0	\$0 \$0	\$0 \$0	10	40 \$0	40	40	\$0 \$0	\$0 \$0	\$0 \$0	40 40	\$0 \$0	10 10	50	10 10	50
Total	<b>\$</b> 0	\$0	<b>\$</b> 0	- •0		<b>\$</b> 0			\$0 \$0	10 10	40 \$0	\$1 673 639	\$1 673 639	\$1 673 639	\$1 673 639	\$1 673 639	\$1 673 639	\$1 673 639	\$1 673 639	1 673 639	\$1 673 639	\$1 673 639	\$1 673 639

Table D7, page 4 Navajo - Gallup Water Supply Project San Juan River PNM Alternative - 2040 Allocation of Annual Variable O,M&R Costs by User NTUA Power Rates Jan-05 5

·						····	· · ·-		lica	rilla Shat	e of Vari	able O,N	A&R Cos	ts by Ye	ar							~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	
Reach	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2030	2035	2040	2045	2050	2055	2060
1	\$0	\$0	\$Û	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$7,501	\$7,501	\$7,501	\$7,501	\$7,501	\$7,501	\$7,501	\$7,501	\$7,501	\$7,501	\$7,501	\$7,501
2	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	<b>\$</b> 0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
3	\$0	\$0	\$0	\$0	\$0	\$0	<b>\$</b> 0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	<b>\$</b> 0	\$0	\$0	\$0	\$0
4	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	<b>\$</b> 0	<b>\$</b> O	\$0	\$0	\$0	\$0	\$0
5	\$0	\$0	\$0	\$0	\$0	\$0	<b>\$</b> 0	\$0	\$0	\$0	\$0	<b>\$</b> 0	\$0	\$0	\$0	\$0	\$0	\$0	<b>\$</b> 0	\$0	\$0	\$0	\$0
6	\$0	\$0	\$0	\$0	<b>\$</b> 0	\$0	\$0	<b>\$</b> 0	\$0	\$0	\$0	<b>\$</b> 0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	30	30	30
7	\$0	<b>\$</b> 0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	<b>\$</b> 0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$U \$0	
8	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	<b>\$</b> 0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	30	20	30 10
9	\$0	\$0	<b>\$</b> 0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	<b>\$</b> 0	\$0	\$0	20	20	<b>\$</b> 0	30	<b>\$</b> 0	<b>a</b> 0	30
10	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	30	\$U \$0	<b>3</b> 0 <b>6</b> 0	\$0
11	\$0	<b>\$</b> 0	\$0	\$0	\$0	\$0	<b>\$</b> 0	\$0	\$0	\$0	<b>\$</b> 0	\$0	\$0	<b>\$</b> 0	<b>3</b> 0	10	\$0	30	<b>3</b> 0	10 10	30	30	10 10
12	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	<b>\$</b> 0	\$0	\$0	\$0	\$0	10	30	3U 40	\$0 \$0	\$0 \$0	30 \$0
13	\$0	\$0	\$0	\$0	\$0	\$0	<b>\$</b> 0	<b>\$</b> 0	<b>\$</b> 0	\$0	\$0	\$0	\$0	30	\$0	30	10	3-U 4-0	30	10	\$0 \$0	40	40 \$0
14	\$0	\$0	\$0	\$0	<b>\$</b> 0	\$0	\$0	<b>\$</b> 0	\$0	\$0	\$0	<b>\$</b> 0	<b>\$</b> 0	<b>\$</b> 0	20	<b>\$</b> 0	<b>3</b> 0	20	30	¥0	•	***	
1																							
											*0	*0	*0	*0	<b>t</b> 0	\$0	\$0	\$0	\$0	\$0	\$0	50	<b>\$</b> 0
10.1	<b>\$</b> 0	\$0	\$0	\$0	\$0	\$0	\$0	30	10	30	30 80	10	*0	40 10	\$0 \$0	*0 *0	<b>4</b> 0	50	<b>1</b> 0	50	<b>1</b> 0	<b>\$</b> 0	\$0
10.2	\$0	\$0	\$0	\$0	20	30	<b>3</b> 0	30	30	40	40 10	40 \$0	*0	<b>1</b> 0	50	50	50	\$0	\$0	ŝo	ŝo	\$0	\$0
10.3	\$0	\$0	\$0	\$0	<b>1</b> 0	20	20	30	10	30	10	10	10	•0	•••			•	•	•			
1	**	*0		**	*0	•0	<b>1</b> 0	<b>1</b> 0	\$0	\$0	\$0	\$0	<b>\$</b> 0	\$0	\$0	<b>\$</b> 0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
12.1	10	30	40	10	#0 #0	*0 *0	40 \$0	50	\$0	50	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	<b>\$</b> 0	\$0	\$0	\$0	\$0
12.2	30	40	<b>1</b> 0	10	10	•	•0		••	••	•	••											
1																							
	*0	•0	*0	457.690	*E7 690	\$57.480	\$57.680	\$57.680	\$57.680	\$57.680	\$57 680	\$57.680	\$57.680	\$57.680	\$57,680	\$57,680	\$57,680	\$57,680	\$57,680	\$57,680	\$57,680	\$57,680	\$57,680
21	\$0 #0	\$0 \$0	\$0 \$0	\$20,680	\$90,000	\$89.505	\$89,505	\$89 505	\$89 505	\$89 505	\$89,505	\$89,505	\$89,505	\$89,505	\$89,505	\$89,505	\$89,505	\$89,505	\$89,505	\$89,505	\$89,505	\$89,505	\$89,505
22	\$U \$0	30	30 10	\$20,000	\$20,003	\$20,003	\$20.975	\$20.975	\$20.975	\$20.975	\$20 975	\$20.975	\$20,975	\$20,975	\$20,975	\$20,975	\$20,975	\$20,975	\$20,975	\$20,975	\$20,975	\$20,975	\$20,97
23	10	30	¥0	\$24,975	\$24,975	\$14.075	\$34.075	\$34.075	\$31075	\$34.075	\$34.075	\$34.075	\$34.075	\$34.075	\$34,075	\$34,075	\$34,075	\$34,075	\$34,075	\$34,075	\$34,075	\$34,075	\$34,07
24	\$0 #0	30 10	30 10	404,075	40-1,075 40	4,073 10	\$0,075 \$0	\$0,075	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	<b>\$</b> 0	\$0	\$1
25	10	30 \$0	30	\$0 \$0	10 10	10 10	10 10	50	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1
7.1	30	¥0	30	\$202.236	\$202 236	\$202 236	\$202 236	\$202.236	\$202 236	\$202.236	\$202,236	\$209,736	\$209,736	\$209,736	\$209,736	\$209,736	\$209,736	\$209,736	\$209,736	\$209,736	\$209,736	\$209,736	\$209,73

#### Table D8 - 2040 Navajo - Gallup Water Supply Project San Juan River PNM Alternative - 2040 Cost of Water to Navajo Nation Discount rate = 2.875%

		peak cfs		Annual	Disco	ounted	CRSP charge	Discounted to	
Year	Main Lateral	Cutter Lateral	Total	afy	Peak cfs	Annual afy	\$4.12/af	2021	
2013 1		3.19	3.19	1,779	4.01	2,232	\$7,321	\$9,185	
2014 2	-	3.27	3.27	1.823	3.99	2,223	\$7,503	\$9,150	
2015 3	3.59	3.36	6.95	3.868	8.23	4,585	\$15,920	\$18,871	
2016 4	3 5 9	3 44	7.03	3 9 1 5	8.10	4.511	\$16,111	\$18,563	
2017 5	3.50	3.52	7.03	3.962	7 97	4 4 3 8	\$16 306	\$18 264	
2017 5	3.59	3.52	7.12	4.011	7.97	4,450	\$16,506	\$17,071	
2010 7	3.59	3.01	7.20	4,011	7.04	4,307	\$16,500	\$17,271 \$17,294	
2019 7	5.59	3.70	7.29	4,001	7.72	4,297	\$10,711	\$17,000 E17.400	
2020 8	3.59	3.79	/.38	4,112	7.60	4,230	\$10,922	\$1/,400	
-2021 9	28.70	3.89	32.59	18,145	32.59	18,145	\$/4,6/6	\$/4,0/0	
2022 10	29.41	3.98	33.39	18,595	32.46	18,076	\$76,528	\$/4,389	
2023 11	30.14	4.08	34.22	19,056	32.34	18,006	\$78,426	\$74,104	
2024 12	30.89	4.18	35.07	19,529	32.21	17,937	\$80,371	\$73,819	
2025 13	31.65	4.29	35.94	20,013	32.09	17,868	\$82,364	\$73,536	
2026 14	32.44	4.39	36.83	20,510	31.96	17,800	\$84,407	\$73,253	
2027 15	33.24	4.50	37.74	21,018	31.84	17,731	\$86,500	\$72,972	
2028 16	34.07	4.61	38.68	21,540	31.72	17,663	\$88,645	\$72,692	
2029 17	34.91	4.73	39.64	22,074	31.60	17,595	\$90,844	\$72,413	
2030 18	35.78	4.85	40.62	22,621	31.48	17,528	\$93,097	\$72,135	
2031 19	36.67	4.97	41,63	23,182	31.36	17,460	\$95,405	\$71,858	
2032 20	37.57	5.09	42.66	23,757	31.24	17,393	\$97,771	\$71,582	
2033 21	38 51	5 21	43 72	24 346	31.12	17 327	\$100 196	\$71 307	
2034 22	30.46	5 3 4	44.81	24,950	31.00	17,260	\$102 681	\$71.033	
2034 22	40.44	5.19	45.02	25,560	30.88	17,200	\$105,227	\$70.761	
2035 25	40.44	5.40	43.92	25,509	30.76	17,124	\$107,227	\$70,701	
2030 24	41.44	5.01	47.00	20,203	30.70	17,128	\$107,037	\$70,409 \$70,219	
2037 25	42.47	5.75	48.22	20,055	30.64	17,002	\$110,511	\$70,210 \$70,210	
2038 26	43.52	5.89	49.42	27,519	30.52	16,997	\$115,252	\$09,949	
2039 27	44.60	6.04	50.64	28,201	30.41	16,931	\$116,061	\$69,680	
2040 28	45./1	6.19	51.90	28,900	30.29	16,866	\$118,939	\$69,412	
2041 29	45.71	6.19	51.90	28,900	29.44	16,395	\$118,939	\$67,473	
2042 30	45.71	6.19	51.90	28,900	28.62	15,937	\$118,939	\$65,587	
2043 31	45.71	6.19	51.90	28,900	27.82	15,491	\$118,939	\$63,754	
2044 32	45.71	6.19	51.90	28,900	27.04	15,058	\$118,939	\$61,972	
2045 33	45.71	6.19	51.90	28,900	26.29	14,638	\$118,939	\$60,240	
2046 34	45.71	6.19	51.90	28,900	25.55	14,228	\$118,939	\$58,557	
2047 35	45.71	6.19	51.90	28,900	24.84	13,831	\$118,939	\$56,920	
2048 36	45.71	6.19	51.90	28,900	24.14	13,444	\$118,939	\$55,330	
2049 37	45.71	6.19	51.90	28,900	23.47	13,069	\$118,939	\$53,783	
2050 38	45.71	6.19	51.90	28,900	22.81	12,703	\$118,939	\$52,280	
2051 39	45.71	6.19	51.90	28,900	22.18	12,348	\$118,939	\$50,819	
2052 40	45.71	6.19	51.90	28,900	21.56	12,003	\$118,939	\$49,399	
2053 41	45.71	6.19	51.90	28,900	20.95	11,668	\$118,939	\$48,019	
2054 42	45.71	6.19	51.90	28 900	20.37	11.342	\$118,939	\$46.677	
2055 43	45.71	6.19	51.90	28,900	19.80	11 025	\$118.939	\$45 372	
2056 44	45.71	6.19	51.90	28,900	19.00	10 717	\$118.039	\$44.104	
2057 45	45.71	6.10	51.90	28,000	19.23	10,117	\$118.030	\$42,872	
2057 45	45.71	6.10	51.00	20,900	10.71	10,417	\$118,020	\$41.674	
2058 40	45.71	6.19	51.90	28,900	10.10	10,120	\$110,939	\$40 E00	
2039 47	45.71	6.19	51.90	28,900	17.08	9,043	\$110,939	\$40,309	
2060 48	45.71	6.19	51.90	28,900	1/.18	9,568	\$118,939	\$39,377	
2061 49	45./1	6.19	51.90	28,900	16.70	9,301	\$118,939	\$38,276	
2062 50	45.71	6.19	51.90	28,900	16.24	9,041	\$118,939	\$37,207	
2063 51	45.71	6.19	51.90	28,900	15.78	8,788	\$118,939	\$36,167	
2064 52	45.71	6.19	51.90	28,900	15.34	8,542	\$118,939	\$35,156	
2065 53	45.71	6.19	51.90	28,900	14.91	8,304	\$118,939	\$34,174	
2066 54	45.71	6.19	51.90	28,900	14.50	8,072	\$118,939	\$33,219	
2067 55	45.71	6.19	51.90	28,900	14.09	7,846	\$118,939	\$32,290	
2068 56	45.71	6.19	51.90	28,900	13.70	7,627	\$118,939	\$31,388	
2069 57	45.71	6.19	51.90	28,900	13.31	7,414	\$118,939	\$30,511	
2070 58	45.71	6.19	51.90	28,900	12.94	7,206	\$118,939	\$29,658	
				Total	1,287.32	716,842	\$5,585,213	\$2,950,140	
			A	nnual Equivalent	48.85	27,203		27,203	
				1		Total PV	/ per acre foot	\$108.45	

Note: Navajo annual equivalent is calculated for the purpose of determining the levelized cost per acre foot to amortize the present value capital costs over the 58 year period of water deliveries. CRSP charge for water has a present value of \$108.45 per acre foot. This charge was amortized over 50 years at the CRSP interest rate of 2.875% to determine an annual charge of \$4.12 per acre foot. This charge is then applied to all water delivered to the Navajos.