

MEMORANDUM

CA AUTHON	
TO:	Finance and Administration Committee and SLDMWA Board of Directors, Alternates
FROM:	Frances Mizuno, Assistant Executive Director
DATE:	February 4, 2019
RE:	Proposed Water Year 2019 O&M Rates

BACKGROUND

The Water Authority has regularly approved the O&M budget at January Board meetings and adopted the Water Year rates at the February meetings. The rates are calculated based on the approved budget and estimated deliveries on forecasted water supply allocations and supplemental water supply information provided by contractors. The costs in the O&M rate determination includes the Authority's self-funded budget, Reclamation's estimate of Project Use Energy cost for all facilities and DWR's estimate of Federal Share of San Luis Unit O&M cost. The O&M rate includes component rates for use of facilities (i.e. Upper DMC, Lower DMC, O'Neill, San Luis Canal etc.) and Reserves. The Reserve component rate is for the collection necessary to fund EO&M Projects. This Reserve obligation is based on each Contractor's historical 10-year average deliveries with a Reserve rate calculated based on that year's estimated deliveries. A true-up is made at the end of the year to determine if collection from rates met each Contractors obligation. Ultimately, the contractor is responsible for their share of the obligation based on their historical 10-year average deliveries.

In 2018, the Authority embarked on a major EO&M Jones Pumping Plant Unit Rewind Project. There are a total of six units. The first unit is nearing completion and was funded through a Reclamation Repayment Contract for \$5M with a 15-year repayment term. The annual repayment obligation is collected through the EO&M Reserve Component Rate.

Funding of the remaining five units is still needed. The original plan was to perform work on a one unit per year schedule but further analysis showed benefits to perform the work on a schedule of one unit per every nine months and issuing the next contract for completion of all five remaining units. The Unit Rewind Project Plan (Attachment 1) which includes the potential for the addition of a Variable Frequency Drive Unit (VFD) Project is provided as background on the benefits of completing the Unit Rewind Project on a one unit per nine-month schedule and issuing the next contract for completion of all five units.

Page 2 of 2

Staff had previously presented three options for funding (Attachment 2) of the remaining 5 units to the O&MT Committee, Finance and Administration Committee and the Board of Directors. The three options considered were:

- 1. Self-Funding
- 2. Reclamation/Other Federal Funding (loan)
- 3. Issuance of Revenue Bonds

Included in the discussion on funding options was an illustration of Reserve Component Rate impacts if the full cost of the project was self-funded over the next four to five fiscal years (Attachment 3).

Based on the Present Value comparison of the three options, bond funding over a 30-year period is the best option. Financing over an extended period also allows for future water users to share in the cost of funding a project that has long-term benefits rather than burdening all the cost to current water users. Although discussions are on-going for Reclamation funding, they have not committed any additional funding. Issuance of bond financing will require the Authority to complete all the backlogged audits. These audits are expected to be current by April/May, 2019. Financing the cost of the project is still a viable option but not likely in time to maintain the schedule to perform Unit 2 work in FY 20.

ANALYSIS OF WY19 O&M RATE

The proposed WY 19 O&M rates are based on the O&M Self-funded budget approved by the Board on January 10, 2019 for a total of \$20,992,441. As Reclamation has not yet announced a water supply allocation for WY 19, the deliveries used in the rate calculation is based on water delivery estimate information the Authority received from Contractor surveys. The proposed rate includes a Reserve rate for collection of the funds for the Unit 2 Rewind Project.

ISSUE FOR DECISION

Whether to self-fund the cost of the next unit (Unit 2) work (\$5.04M) and approve the WY 2019 O&M rate that includes the collection for the cost of Unit 2 Rewind work.

RECOMMENDATION

Staff recommends that Unit 2 work be self-funded in FY20 and secure financing over the next year to complete the remaining four units

In addition, staff recommends approval of proposed WY 19 O&M rate as shown on Attachment 4 which includes the collection of the cost for Unit 2 work assuming the Board agrees with proceeding with the project schedule of one unit per every nine months and issuing the next contract for all the remaining 5 units. As the estimated deliveries from Contractors are likely conservative, the Board may want to consider revisiting the rates once a final water supply allocation is set.



MEMORANDUM

TO:	SLDMWA Finance and Administration Committee and Board of Directors, Alternates
FROM:	Bob Martin, Engineering & Planning Department Manager
DATE:	February 4, 2019
RE:	Jones Pumping Plant Unit Rewind Project Plan

PROJECT INFORMATION

The Jones Pumping Plant (JPP) has a total of six (6) 22,500 horsepower motors, five (5) that are near end of service life. On February 5, 2017, SLDMWA executed a negotiated repayment contract with the US Bureau of Reclamation (USBR) which authorized USBR to provide up to five (5) million dollars in funds for the rewind of JPP Unit No. 6. NOTE: This repayment contract agreement (Contract No. 17-WC-20-5100) is specific to JPP Unit No. 6. Unit 6 rewind is now completed, and SLDMWA crews are in final unit reassembly and preparing to return the unit to service. Unit No. 6 final performance testing is scheduled for the week of February 11, 2019.

The next phase of the JPP Unit Rewind Project is to develop a project plan to rewind the five (5) remaining JPP units under one construction contract. Two options have been considered: Option 1. Rewind 1 unit per year for 5 consecutive years, and Option 2. Rewind 1 unit every 9 months. NOTE: Unit No. 6 from Notice to Proceed date to completion of field work was 9 months.

Several advantages for entering into one construction contract for the remaining 5 units are as follows:

- One design for all 5 units ensures each unit will be refurbished using the same components (Laminations, coils, dowels, etc.). From an asset & maintenance management perspective, identical units allow for standardization of operation & maintenance protocols which improves overall O&M efficiencies. Additionally, one design reduces the amount of spare parts that are needed and stored and standardizes "as-built" drawings which simplifies drawing interpretation.
- 2. The same contractor will perform rewind on each of the five remaining units. Construction efficiencies and quality improvements from lessons learned will be developed throughout the construction contract which ultimately reduces cost and decreases the risk associated with schedule delays.

In addition to the above noted advantages, Option 2 offers the following advantages:

- 1. When units are rewound every 9 months or "back-to-back", cost savings are realized from reduced contract mobilization costs and reduced project management cost.
- 2. Project is completed in 49 months versus 60 months. Since the remaining 5 units are approaching end of service life, we are proactively and strategically reducing the risk of

Memo to SLDMWA Board of Directors February 4, 2019 Page **2** of **2**

an in-service failure by completing the project 11 months faster than Option 1. In-service failure costs can be excessive, along with potentially not meeting contractor water deliveries.

This phase of the project will include the following:

- 1. Perform pre-award activities which include development of the bidding and contract documents (plans and specifications) for the rewind of JPP Unit Nos. 1, 2, 3, 4, & 5 as a bundled contract, project advertisement, pre-proposal mandatory project site visit, evaluation of bids, and contractor selection process.
- 2. Award construction contract and perform contract management activities on all 5 units which include contract submittal management, manufacturing shop and on-site construction inspection, project management activities, daily/weekly/monthly reporting, unit performance testing and warranty management.

Variable Frequency Drive (VFD) Option Discussion

The SLDMWA Board of Directors recommended to SLDMWA staff to consider installing a variable frequency drive (VFD) on one unit to improve JPP pumping rate flexibility, and to extend the service life of the units by reducing the number of starts that have been significantly increasing over the years due to changes in Delta operations. Initial discussions with Reclamation O&M and Denver Office technical staff have indicated that including the design and installation of a VFD on the final unit may not be viable. Reclamation has limited technical knowledge of VFD's installed on larger pumping units and installation of VFD on 22,500 HP units are rare. As a result, SLDMWA staff will continue to research this option and explore/evaluate other options to improve plant pumping rate flexibility and unit reliability.

The attached documents provide project cost information for each of the remaining five unit rewinds and the projected monthly spending plan for Option 2, the recommended 9 month per unit rewind project plan. These costs were developed based on actual costs documented with JPP Unit No. 6 rewind project. Lastly, a placeholder of approximately \$4 million is included in the final year of each option for the design and construction of a feature that improves unit reliability and pumping rate flexibility.

(9 Months per Unit)																																																	
			F	Y20								FY	21									FY22	2								F	Y23										FY2	4						
	Mar-19 Apr-19	May-19 Jun-19	Jul-19	Sep-19	Oct-19	Dec-19	Jan-20	Feb-20	Apr-20	May-20	Jun-20	Aug-20	Sep-20	Oct-20	Dec-20	Jan-21	Feb-21	Mar-21 Apr-21	May-21	Jun-21	Jul-21	Aug-21 Sen-21	Oct-21	Nov-21	Dec-21	Jan-22	140-72	Mar-22	May-22	Jun-22	Jul-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23 Feh-73	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23 Oct-23	Nov-23	Dec-23	Jan-24	Feb-24		
Unit 2 (includes Pre-Award Cost)	\$	Pre-a	ward A	lctivitie	s & Ur	5,0	2 39,3	800			U	nit Nc). 1														T																					\$	5,039,300
Unit 1									\$			4	,97	1,1	00			U	Init No	0.4																												\$	4,971,100
Unit 4																\$			5	6,0 8	30,2	200				Unit I	No. 3	3																				\$	5,080,200
Unit 3																							Ş	5			5,2	201	1,60	00			Uni	it No.	5													\$	5,201,600
Unit 5 (includes VFD)																															\$			9,	51	7,3	00											\$	9,517,300
1 Unit per 9 Months	\$				4,4	479	,378	3	\$					6,6	559	,956	5	\$					6	5,84	1,0	044		\$					11	,82	9,1	22												\$	29,809,500
1 Unit per 9 Months (Levelized)	\$				7,4	452	,375	5	\$					7,4	152	,37	5	\$					7	7,45	52,3	375		\$					7	,45	2,3	875												\$	29,809,500

NOTE: The actual funding amount for FY20 needs to include the entire cost of the Unit No. 2 rewind. (\$5.0393M) The funding amount for FY21 is adjusted to reflect for the FY20 funding. (\$6.656M+\$4.4794M-\$5.0393M=\$6.1000M)

						\$5,0	039,300)								\$	4,971,1	100							\$5	080,200	D							\$5,201,	600							\$9	9,517,3	00			
Project Management Spending Plan	\$46	\$46	\$46	\$46	\$46	\$46	\$46	\$46 ¢10	940	\$46 ***	546 \$46	\$46	\$62	\$62	\$62	\$62	\$62	\$62	\$62	\$62	\$62	\$63	\$63	\$63	\$63	\$63	\$63	\$63	\$63 \$53	505 201	coć	204	\$65 \$65	\$65	\$65	\$65	\$65	\$65	\$67	\$67	\$67	\$67	\$67	\$67	\$67	\$67	\$67
Construction Cost Spending Plan	0\$	\$0	\$0	\$0	\$0	\$0	\$0	\$222	7775	\$1,779 Åff	\$667	\$890	0\$	\$221	\$221	\$1,104	\$662	\$441	\$441	\$883	\$441	0\$	\$226	\$226	\$1,128	\$677	\$451	\$451	\$903	104¢	n¢	1524	\$1.154	\$692	\$461	\$461	\$923	\$461	\$0	\$446	\$446	\$2,229	\$1,337	\$892	\$892	\$1,783	\$892
Monthly Spending Plan	\$46	\$46	\$46	\$46	\$46	\$46	\$46	\$268 \$268	807¢	\$1,825 4-10	\$713 \$713	\$935	\$62	\$283	\$283	\$1,165	\$724	\$503	\$503	\$945	\$503	\$63	\$289	\$289	\$1,191	\$740	\$514	\$514	\$966	\$514	coć	962¢	\$1.219	\$757	\$527	\$527	\$988	\$527	\$67	\$513	\$513	\$2,296	\$1,404	\$958	\$958	\$1,850	\$958

			(1 Year per Unit)			_
	FY20	FY21	FY22	FY23	FY24	
	Unit No. 2					
Unit 2 (includes Pre-Award Cost)	\$ 5,213,200	Unit No. 1				\$ 5,213,200
Unit 1		\$ 5,375,200	Unit No. 4			\$ 5,375,200
Unit 4			\$ 5,525,000	Unit No. 3		\$ 5,525,000
Unit 3				\$ 5,690,000	Unit No. 5	\$ 5,690,000
Unit 5 (includes VFD)					\$ 10,000,000	\$ 10,000,000
1 Unit per Year	\$ 5,213,200	\$ 5,375,200	\$ 5,525,000	\$ 5,690,000	\$ 10,000,000	\$ 31,803,400

Attachment 1

\$29,809,500

\$ 2,903,900
\$ 26,905,600

49

\$ 29,809,500

Jones Pumping Plant Unit Rewind Project Anticipated Funding Schedule (9 Months per Unit)

First Unit (April 2019 Estimated Start Date):		
USBR Project Oversight & Testing Participation Cost:	\$	25,000
Project Design & Contract Management Cost (DHR):	\$	566,500
Mobilization Costs (First Unit Only):	\$	90,100
Construction Contract Cost (w/contingencies):	\$	4,357,700
Total cost of first unit:	\$	5,039,300
Second Unit (March 2020 Estimated Start Date):		
USBR Project Oversight & Testing Participation Cost:	\$	51,500
Contract Administration Cost (DHR & USBR Only):	\$	505,600
Construction Contract Cost (w/contingencies):	\$	4,414,000
Total cost of second unit:	\$	4,971,100
Third Unit (January 2020 Estimated Start Date):		
USBR Project Oversight & Testing Participation Cost:	Ś	52.700
Contract Administration Cost (DHR & USBR Only):	Ś	514.200
Construction Contract Cost (w/contingencies):	\$	4,513,300
<u>Total cost of third unit:</u>	\$	5,080,200
Fourth Unit (October 2021 Estimated Start Date):		
USBR Project Oversight & Testing Participation Cost:	\$	53,900
Contract Administration Cost (DHR & USBR Only):	\$	532,800
Construction Contract Cost (w/contingencies):	\$	4,614,900
Total cost of fourth unit:	\$	5,201,600
Fifth Unit (July 2022 Estimated Start Date with March 2023 Estimated Completion	Date	<u>):</u>
USBR Project Oversight & Testing Participation Cost:	\$	55,200
Contract Administration Cost (DHR & USBR Only):	\$	546,500
De-Mobilization Costs (Last Unit Only):	\$	98,500
Construction Contract Cost (w/contingencies):	\$	4,802,400
Total cost of fifth unit:	Ś	5.502.600
Cost of VFD (D&C)	\$	4,014,700
	\$	9,517,300
Total Project Cost:	\$	29,809,500

Notes:

1. Estimated construction duration per unit is 9 months

2. All costs include adjustment of 3%/year for inflation

Unit No.			
2	Project Management Cost:	\$	2,903,900
1	Construction Cost:	\$	22,890,900
4	VFD Design & Construction Cost:	\$	4,014,700
3		\$	29,809,500
5			
	Unit No. 2 1 4 3 5	Unit No. 2 Project Management Cost: 1 Construction Cost: 4 VFD Design & Construction Cost: 3 5	Unit No. 2 Project Management Cost: \$ 1 Construction Cost: \$ 4 VFD Design & Construction Cost: \$ 3 \$ 5

SLDMWA

ATTACHMENT 2

Jones Pumping Plant Unit Rewind Project - Simplified Funding Analysis

Funding Options

1. Self Funding through collection of funds through the Reserve Component using 10-year average historical deliveries

2. Reclamation Funding through Repayment Contracts - 15 Year Term @ Treasury Rate- Unit 6 Repayment Terms -1.75% Current-3%

3. Revenue Bonds - 30 Year Term - 4.75% Rate

Project Cost

Total 6 Units- One Unit Per Year	\$36,803.4
Total 6 units- Unit 6 and Remaining 5 Units Under One Contract based on One Unit every 9 months	\$34,809.5
Remaining 5 Units- One Unit Per Year	\$31,803.4
Remaining 5 Units- One Unit every 9 months	\$29,809.5

	-										
	1.	Self Fundi	ng	2. Rec	lamation Fu	Inding	3. Revenue Bond				
	Amount	Interest	Total	Amount	Interest	Total	Amount	Interest	Total		
Unit 6				\$5,000.0	\$1,001.9	\$6,001.9					
Remaining 5 Units	\$29,809.5	\$0.0	\$29,809.5	\$31,803.4	\$8,157.5	\$39,960.9	\$29,809.5	\$26,717.7	\$56,527.2		
Total Rewind Cost (includes Unit 6 & all interest)		\$35,811.4			\$45,962.8			\$62,529.1			
Increase over Self-Funding Option					\$10,151.4			\$26,717.7			
PV for Funding Remaining 5 Units		\$27,303.7			\$31,803.4			\$36,931.9			

PV Calc on Remaining 5 Units			
	Self Funding	USBR	Bond
Amount Financed (5 units)	29,809,500	31,803,400	29,809,500
No. Years	5	0.05	0.0475
Annual Payment	(5.961.900)	(2.664.062)	(1.884.242)
Total Principal and Interest Payments	29,809,500	39,960,931	56,527,267
Interest Amount Only	-	8,157,531	26,717,767
Discount Rate for PV calculation	0.03	0.03	0.03
PV of the annual stream of payments over financing period	\$27,303,756	\$31,803,400	\$36,931,979
Historical Avg Deliveries (AF/Year)	2,000,000	2,000,000	2,000,000
Cost/AF (Annual Pmt/AF per year)	2.98	1.33	0.94
Total AF over Financing Period (using			
historical avg deliveries of 2mil AF)	10,000,000	30,000,000	60,000,000
PV cost per A/F (PV/AF of the Total Financing Period)	2.73	1.06	0.62

SLDMWA

ATTACHMENT 3

Illustration of Reserve EO&M Component Potential Rate Assuming Self-Funding Remaining Unit Rewind Project

1/31/2019	2	020	2021	2022	2023	2024	Total
* EOM Project Funding Need (in thousands)	\$ 2,68	3.5	\$ 4,605.8	\$ 4,644.2	\$ 5,040.5	\$ 4,575.0	\$ 21,549.0
Rate using 2 MAF delivery -Estimate used for WY18 Rate assuming 35% allocation	\$ 1.	34	\$ 2.30	\$ 2.32	\$ 2.52	\$ 2.29	
Rate using 2.8 MAF - 100 % Ag Service Allocation (2017)	\$ 0.	96	\$ 1.64	\$ 1.66	\$ 1.80	\$ 1.63	
Rate using 1.8 MAF - 20% Ag Service allocation (2013)	\$ 1.	49	\$ 2.56	\$ 2.58	\$ 2.80	\$ 2.54	
Rate using 1.4MAF - 5% Ag Service Allocation (2016)	\$ 1.	92	\$ 3.29	\$ 3.32	\$ 3.60	\$ 3.27	
Rate using .9MAF- 0 % Ag Service Allocation(2015)	\$ 2.	98	\$ 5.12	\$ 5.16	\$ 5.60	\$ 5.08	l
Unit 6 Rewind Repayment Funding Need (in thousands)	\$ 5	00	\$ 500	\$ 500	\$ 500	\$ 500	1
Rate using 2 MAF delivery -Estimate used for WY18 Rate with 35% allocation	\$0).25	\$0.25	\$0.25	\$0.25	\$0.25	
Rate using 2.8 MAF - 100 % Ag Service Allocation (2017)	\$0).18	\$0.18	\$0.18	\$0.18	\$0.18	
Rate using 1.8 MAF - 20% Ag Service allocation (2013)	\$0).28	\$0.28	\$0.28	\$0.28	\$0.28	
Rate using 1.4MAF - 5% Ag Service Allocation (2016)	\$0	.36	\$0.36	\$0.36	\$0.36	\$0.36	
Rate using .9MAF- 0 % Ag Service Allocation(2015)	\$0	.56	\$0.56	\$0.56	\$0.56	\$0.56	l
Unit Rewind Project Funding Needs (in thousands)- Unit rewind one unit per year	\$5,21	.3.2	\$5,375.2	\$5,525.0	\$5,690.0	\$10,000.0	\$31,803.4 Note: Year 2024 includes VFD cost
Unit Rewind Project Funding Needs (in thousands)- Unit rewind with remaining 4 units under one contract at one	¢E 02	0.4	¢6 100 0	¢C 941 0	¢11 020 1		\$20,800 E Noto: Year 2022 includes VED Cost
unit every 9 mo with last unit to include VFD under separate contract	\$5,03	9.4	\$6,100.0	\$0,841.0	\$11,829.1		\$29,809.5 Note: Year 2023 includes VFD Cost
One Unit / Year Rate	1	1		1		1	1
Rate using 2 MAF delivery -Estimate used for WY18 Rate assuming 35% allocation	\$2	.61	\$2.69	\$2.76	\$2.85	\$5.00	1
Rate using 2.8 MAF - 100 % Ag Service Allocation (2017)	\$1	.86	\$1.92	\$1.97	\$2.03	\$3.57	
Rate using 1.8 MAF - 20% Ag Service allocation (2013)	\$2	.90	\$2.99	\$3.07	\$3.16	\$5.56	
Rate using 1.4MAF - 5% Ag Service Allocation (2016)	\$3	3.72	\$3.84	\$3.95	\$4.06	\$7.14	
Rate using .9MAF- 0 % Ag Service Allocation(2015)	\$5	5.79	\$5.97	\$6.14	\$6.32	\$11.11	
One Unit/ 9 Month Rate							1
Rate using 2 MAF delivery -Estimate used for WY18 Rate assuming 35% allocation	\$2	.52	\$3.05	\$3.42	\$5.91		
Rate using 2.8 MAF - 100 % Ag Service Allocation (2017)	\$1	.80	\$2.18	\$2.44	\$4.22		
Rate using 1.8 MAF - 20% Ag Service allocation (2013)	\$2	.80	\$2.18	\$2.44	\$4.22		
Rate using 1.4MAF - 5% Ag Service Allocation (2016)	\$3	6.60	\$4.36	\$4.89	\$8.45		
Rate using .9MAF- 0 % Ag Service Allocation(2015)	\$5	.60	\$6.78	\$7.60	\$13.14		l
Cost for Levelized Collection for Unit Rewind Project Duration (\$)	\$7,45	2.4	\$7,452.4	\$7,452.4	\$7,452.4		
Rate using 2 MAF delivery -Estimate used for WY18 Rate with 35% allocation	\$3	.73	\$3.73	\$3.73	\$3.73		
Rate using 2.8 MAF - 100 % Ag Service Allocation (2017)	\$2	.66	\$2.66	\$2.66	\$2.66		
Rate using 1.8 MAF - 20% Ag Service allocation (2013)	\$4	.14	\$4.14	\$4.14	\$4.14		
Rate using 1.4MAF - 5% Ag Service Allocation (2016)	\$5	.32	\$5.32	\$5.32	\$5.32		
Rate using .9MAF- 0 % Ag Service Allocation(2015)	\$8	8.28	\$8.28	\$8.28	\$8.28		l
Total EO&M Rate -One Unit / Year]						
Rate using 2 MAF delivery -Estimate used for WY18 Rate with 35% allocation	\$4	.20	\$5.24	\$5.33	\$5.62	\$7.54	
Rate using 2.8 MAF - 100 % Ag Service Allocation (2017)	\$3	.00	\$3.74	\$3.81	\$4.01	\$5.38	
Rate using 1.8 MAF - 20% Ag Service allocation (2013)	\$4	.66	\$5.82	\$5.93	\$6.24	\$8.38	
Rate using 1.4MAF - 5% Ag Service Allocation (2016)	\$6	5.00	\$7.49	\$7.62	\$8.02	\$10.77	
Rate using .9MAF- 0 % Ag Service Allocation(2015)	\$9	.33	\$11.65	\$11.85	\$12.48	\$16.75	
Total EO&M Rate - One Unit / 9 Month							
Rate using 2 MAF delivery -Estimate used for WY18 Rate with 35% allocation	\$4	.11	\$5.60	\$5.99	\$8.68	\$2.54	
Rate using 2.8 MAF - 100 % Ag Service Allocation (2017)	\$2	.94	\$4.00	\$4.28	\$6.20	\$1.81	
Rate using 1.8 MAF - 20% Ag Service allocation (2013)	\$4	.57	\$5.02	\$5.30	\$7.30	\$2.82	
Rate using 1.4MAF - 5% Ag Service Allocation (2016)	\$5	.87	\$8.00	\$8.56	\$12.41	\$3.63	
Rate using .9MAF- 0 % Ag Service Allocation(2015)	\$9	.14	\$12.45	\$13.32	\$19.30	\$5.64	
Total EO&M Rate - Levelized Collection for Unit Rewind Project Duration							1
Rate using 2 MAF delivery -Estimate used for WY18 Rate with 35% allocation	\$5	.32	\$6.28	\$6.30	\$6.50	\$2.54	
Rate using 2.8 MAF - 100 % Ag Service Allocation (2017)	\$3	.80	\$4.49	\$4.50	\$4.64	\$1.81	
Rate using 1.8 MAF - 20% Ag Service allocation (2013)	\$5	.91	\$6.98	\$7.00	\$7.22	\$2.82	

Rate using 1.4MAF - 5% Ag Service Allocation (2016)	Ş7.60	\$8.97	\$9.00	\$9.28	\$3.63
Rate using .9MAF- 0 % Ag Service Allocation(2015)	\$11.82	\$13.95	\$14.00	\$14.44	\$5.64

* EOM Project Funding Need based on 10-year plan