

#### **AGENDA**

# SPECIAL JOINT BOARD OF DIRECTORS & CITIZENS ADVISORY COUNCIL WORKSHOP WEDNESDAY, NOVEMBER 9, 2022, AT 9:00 AM 61750 CHOLLITA ROAD, JOSHUA TREE, CA 92252

ON MARCH 4, 2020, CALIFORNIA GOVERNOR GAVIN NEWSOM DECLARED A STATE OF EMERGENCY IN CALIFORNIA AS A RESULT OF THE COVID-19 PANDEMIC, AN EMERGENCY THAT REMAINS IN EFFECT AND FROM WHICH OUTBREAKS AND EXPOSURE CONTINUES TO PRESENT AN IMMINENT THREAT FOR SOME ATTENDEES. ACCORDINGLY, THE BOARD OF DIRECTORS AND PUBLIC MAY ATTEND THIS MEETING INPERSON, TELEPHONE, OR BY VIDEO CONFERENCE.

To join by Zoom please click the below link:

https://us02web.zoom.us/j/85070165559?pwd=UIR2Y0IHQmUwKzIvdnZVVGVxeWsyZz09

Or you may join by phone at 1-669-900-6833, Meeting ID: 850 7016 5559 Passcode: 225763

- 1. CALL TO ORDER -
- 2. PLEDGE OF ALLEGIANCE -
- 3. **DETERMINATION OF A QUORUM -**
- 4. APPROVAL OF AGENDA -
- 5. **PUBLIC COMMENT** This is the time set aside for public comment on any District related matter, whether appearing on the agenda or not. At the discretion of the Board President, however, comments on a particular Agenized item may be deferred until that item is heard. Please state your name and limit your comments to 3 minutes.
- 6. STATE OF EMERGENCY FINDINGS GOVT. CODE § 54953(e) On October 6, 2021, the Board, by majority vote, adopted Resolution No. 21-1035, making certain findings that (1) the State of Emergency declared by California Governor Newsom on March 4, 2020, relative to the COVID-19 Emergency, remains in effect; and (2) due to existing rate of community transmission and the small meeting space available to the District for in-person attendance, the provision of a unrestricted physical location for the District's meetings could present imminent risks to the health and safety of attendees. It is recommended that the Board resolve by majority roll-call vote to extend the findings in Resolution No. 21-1035, modified to allow for optional in-person attendance for members of the Board and public, for an additional 30 days.
- 7. **RATE STUDY WORKSHOP** Director of Finance Anne Roman, General Manager Sarah Johnson, and consultant Mr. Alex Handlers, Bartle Wells Recommendation: Receive information, discuss, and provide input. No action is to be taken.
- 8. ADJOURNMENT -

#### INFORMATION

The public is invited to comment on any item on the agenda during discussion of that item. Members of the public wishing to attend the meeting that require other reasonable modifications or accommodation to facilitate such attendance should contact Sarah Johnson at 760-366-8438 or sjohnson@jbwd.com as soon as feasible before the meeting to make such request.

Availability of agenda materials: Agenda exhibits and other writings that are disclosable public records distributed to all or a majority of the members of the Joshua Basin Water District Board of Directors in connection with a matter subject to discussion or consideration at an open meeting of the Board are available online at jbwd.com for public inspection, or in the District's office, 61750 Chollita Road, Joshua Tree, CA 92252 ("District Office"). If such writings are distributed to members of the Board less than 72 hours prior to the meeting, they will be available at the reception desk of the District Office and online at jbwd.com during business hours at the same time as they are distributed to the Board members. Disability-related accommodations: The Joshua Basin Water District Board of Director's meeting room is wheelchair accessible. If you require any special disability-related accommodations (e.g., access to an amplified sound system, etc.) please contact Sarah Johnson at the District Office at (760) 366-8438 during business hours at least seventy-two (72) hours prior to the scheduled meeting. This agenda can be obtained in alternative format upon written request to the District Office, at least seventy-two (72) hours prior to the scheduled meeting.

#### JOSHUA BASIN WATER DISTRICT MEETING AGENDA ITEM STAFF REPORT

**Special Board of Directors Rate Study Workshop** DATE: November 9, 2022 w/Citizens Advisory Council

**REPORT TO:** Board Members & CAC

Members

**PREPARED BY:** Anne Roman, Director of Finance

TOPIC: RATE STUDY WORKSHOP

**RECOMMENDATION:** Discuss, ask questions, and provide input

**ANALYSIS:** We haven't previously discussed some other important assumptions being used in the Rate Study scenarios. All scenarios presented fund the following reserves for the five years of the Rate Study, in addition to the CIRP/Capital project funding shown in the scenarios. Early in 2023, Staff will bring forth a comprehensive review of the Reserve Policy to include clarifying language for managing reserve fund activity but, for now, please consider these assumptions:

- Equipment & Technology Replacement increased from \$170k per year to \$375k; calculated based on depreciation of vehicles/equipment, reflecting new CIRP equipment.
- Reports & Studies increased from \$50k per year to \$200k (slightly lower than projected average cost of \$225k)
- Meter Replacement Program reduced from \$500k per year to \$185k based on current account balance and slowed progress due to inventory acquisition issues.
- Building Replacement Fund eliminate prior \$30k annual funding since no new building is planned at this time.

In response to comments heard at recent Rate Study meetings, Staff proposes that the Board consider increasing the \$2 million Emergency Capital Replacement fund to \$2.5 million by reducing annual capital funding by \$100k over the next 5 years. This option, if favored, can be adopted through the future Reserve Policy review.

Today, we present several updated Rate Study scenarios and Cash Flow projections that address large capital initiatives like pipeline replacement and unfunded mandates like Chromium 6 treatment:

- Scenario A The Best Management Practice
- Scenario B Reduced Rate increases with \$1.65 million reserves drawdown.
- Scenario C Reduced Rate, increases limited to 9% per year, reduced CIRP/Capital funding, and \$1.26 reserve drawdown.
- All of the above include a Fixed rate increase of only 5% with the remaining increase on variable rate tiers. This helps balance increasing rates for low consumers.
- Scenario D Dedicated/Restricted Capital Charge In addition, we ask for continued contemplation on the idea of a separate capital component (details in Scenario D). Placing the capital charge on the tax rolls transfers the capital cost directly to the parcel owner, who receives the greatest benefit of the infrastructure. The advantage of doing so could help keep water rates more affordable for tenants in a community with a median income of just over \$42k and a 23.6% poverty rate (per the 2020 Census). The addition of such a capital component could offset the need for an adjustment to existing rates, partially or completely.

As before, we request your input and hope that a recommendation can be brought forward from the 11/08/22 Citizens' Advisory Council (C.A.C) meeting to the 11/09/22 C.A.C./Finance Committee/Special Board meeting.

STRATEGIC PLAN ITEM: 2.8 Continue to monitor and update rates and fees to ensure

financial viability.

FISCAL IMPACT: N/A





# **Water Rate Study**

**EXCERPTS** 

Working Draft Tables 11/01/22



Table 1
Joshua Basin Water District
Summary of Financial & Rate Scenarios

	2018 RATE STUDY PROJECTIONS									
Reduced Rate Scenario, Years 6 - 10 from Prior Study										
	Current	22/23	23/24	24/25	25/26	26/27	TOTAL			
		Jan-1	Jan-1	Jan-1	Jan-1	Jan-1				
Projected Rate Increases		16%	14%	12%	6%	6%	66%			

	SCENARIO A								
	Best Management Practice with Reduced Expenses								
Current 22/23 23/24 24/25 25/26 26/27							TOTAL		
		Mar-1	Jan-1	Jan-1	Jan-1	Jan-1			
Projected Rate Increases		16%	14%	12%	10%	8%	76%		
Capital Improvement Funding		1,785,000	2,500,000	2,588,000	2,679,000	2,773,000	12,325,000		
Change in Fund Reserves		212,000	(107,000)	382,000	(464,000)	(143,000)	(120,000)		
Est. Typical Monthly Bill (6 hcf)*	80.05	90.89	102.79	115.69	127.74	138.53			

 $<sup>\</sup>ensuremath{^{*}}$  Actual impacts may vary based on final water rate structure, meter size, and water use.

	SCENARIO B						
Red	uced Rate	wdown of Fu	nd Reserves				
Current 22/23 23/24				24/25	25/26	26/27	TOTAL
		Mar-1	Jan-1	Jan-1	Jan-1	Jan-1	
Projected Rate Increases		14%	12%	10%	8%	8%	64%
Capital Improvement Funding		1,785,000	2,500,000	2,588,000	2,679,000	2,773,000	12,325,000
Change in Fund Reserves		167,000	(274,000)	86,000	(912,000)	(720,000)	(1,653,000)
Est. Typical Monthly Bill (6 hcf)*	80.05	89.33	99.31	109.87	119.22	129.29	

<sup>\*</sup> Actual impacts may vary based on final water rate structure, meter size, and water use.

SCENARIO C								
L	Limit Overall Rate Increases to 9% Per Year & Reduce CIP							
	Current	22/23	23/24	24/25	25/26	26/27	TOTAL	
		Mar-1	Jan-1	Jan-1	Jan-1	Jan-1		
Projected Rate Increases		9%	9%	9%	9%	9%	54%	
Capital Improvement Funding		1,785,000	2,000,000	2,000,000	2,000,000	2,000,000	9,785,000	
Change in Fund Reserves		51,000	(141,000)	154,000	(814,000)	(508,000)	(1,258,000)	
Est. Typical Monthly Bill (6 hcf)*	80.05	85.49	92.47	101.47	111.18	121.73		

 $<sup>\</sup>ensuremath{^*}$  Actual impacts may vary based on final water rate structure, meter size, and water use.

	SCENARIO D									
Dedicated/Restricted Capital Charge (On Bill or Tax Roll)										
Current 23/24 24/25 25/26 26/27 27/28 TOTAI										
		Jul-1	Jul-1	Jul-1	Jul-1	Jul-1				
Projected Rate Increases		0%	0%	0%	5%	5%	10%			
Capital Charge Funding		1,000,000	2,000,000	3,000,000	3,500,000	3,800,000	71%			
Capital Improvement Funding		2,500,000	2,588,000	2,679,000	2,773,000	2,870,000				
Est. Typical Monthly Bill (6 hcf)*	80.05	80.05	80.05	80.05	80.05	84.05				
Est. Monthly Capital Charge		<u>14.00</u>	28.00	42.00	49.00	53.00				
Total Monthly Charges	80.05	94.05	108.05	122.05	129.05	137.05				

#### Notes

Example phase-in of a dedicated Capital Improvement Charge shown

Capital Improvement Charge would also help fund debt service and CIRP staffing costs

Can be collected via the County property tax rolls instead of on monthly bills

Table 2 Joshua Basin Water District Summary of Rate Scenarios

OVERALL RATE INCREASES										
Billing impacts may vary based on meter size and water use depending on rate structure										
22/23 23/24 24/25 25/26 26/27 TOTAL										
2018 Rate Study Projections	16%	14%	12%	6%	6%	66%				
A) Best Management Practice	16%	14%	12%	10%	8%	76%				
B) Reduced Rates w/ Addl Drawdown	14%	12%	10%	8%	8%	64%				
C) 9% Rate Increases w/ Reduced CIP	9%	9%	9%	9%	9%	54%				
D) Dedicated Capital Charge (Bills or Tax	tbd	tbd	tbd	tbd	tbd					

MONTHLY BILL FOR A TYPICAL HOME WITH 6 HCF OF WATER USE												
Billing impacts may vary b	Billing impacts may vary based on meter size and water use depending on rate structure											
	Current	22/23	23/24	24/25	25/26	26/27						
A) Best Management Practice	80.05	90.89	102.79	115.69	127.74	138.53						
B) Reduced Rates w/ Addl Drawdown	80.05	89.33	99.31	109.87	119.22	129.29						
C) 9% Rate Increases w/ Reduced CIP	80.05	85.49	92.47	101.47	111.18	121.73						
D) Dedicated Capital Charge (Bills or Tax R	dolls)	tbd	tbd	tbd	tbd	tbd						

ALL-IN COST FOR A TYPICAL HOME (CENTS PER GALLON W/ FIXED & USAGE CHARGES)										
Billing impacts may vary based on meter size and water use depending on rate structure										
Current 22/23 23/24 24/25 25/26 26/27										
A) Best Management Practice	1.5	1.7	2.0	2.2	2.4	2.6				
B) Reduced Rates w/ Addl Drawdown	1.5	1.7	1.9	2.1	2.3	2.5				
C) 9% Rate Increases w/ Reduced CIP	1.5	1.6	1.8	1.9	2.1	2.3				
D) Dedicated Capital Charge (Bills or Tax Rol	lls)	tbd	tbd	tbd	tbd	tbd				

#### Projected Monthly Charges for a Typical Home with 6 hcf of Monthly Water Use

SCENARIO	EFFECTIVE	BASIC FEE	USAGE CHARGES	TOTAL
Current Rates	1/1/22	\$41.35	\$38.70	\$80.05
Α	1/1/27 (Year 5)	52.77	85.76	138.53
В	1/1/27 (Year 5)	52.77	76.52	129.29
С	1/1/27 (Year 5)	52.77	68.96	121.73

# **Scenario A**

### **Best Management Practice with Cost Reductions**

Phase in Rate Increases to Support Balanced Budget in 5 Years



	Table A1 JBWD Cash Flow Proje	ections A - Bes	t Mgmt Practio	ce with Reduce	ed Expenses	Years 1 - 5
		1	2	3	4	5
		Projected	Projected	Projected	Projected	Projected
,	Effective Data of Data Adi at an al	2022/23	2023/24	2024/25	2025/26	2026/27
1 2	Effective Date of Rate Adjustment Overall Rate Increase Target	Mar-1 16%	Jan-1 14%	Jan-1	Jan-1 10%	Jan-1 <b>8%</b>
3	Fixed Rate Increase %	5%	5%	5%	5%	5%
4	Usage Rate Increase %	23.2%	19.0%	15.4%	12.2%	9.3%
5	Growth: New 1" Meters or Equivalents	50	25	25	25	25
6 7	Growth % Wtr Demand Elasticity (Response to Rate Incr)	1.0% (0.10)	0.5% (0.10)	0.5% (0.10)	0.5% (0.10)	0.5% (0.10)
8	Change in Water Use After Rate Increase	-2.3%	-1.9%	-1.5%	-1.2%	-0.9%
9	Water Purchases from MWA (AF)	916	1,000	1,000	1,000	1,000
10	MWA Rate per AF	\$623	\$645	\$664	\$684	\$705
11 12	Interest Earnings Rate Annual Cost Escalator	1.0%	1.5% 6.0%	1.5% 4.0%	1.5% 4.0%	1.5% 4.0%
13	Beginning Fund Reserves	\$12,846,000	\$13,058,000	\$12,951,000	\$13,333,000	\$12,869,000
14	REVENUES			Compounded F V	ear Rate Increase >>	769/
15	Basic Monthly Fees	2,560,000	2,731,000	2,882,000	3,041,000	<b>76%</b> 3,209,000
16	Water Usage Charges	4,202,000	4,986,000	5,675,000	6,325,000	6,907,000
17	Basic Monthly Fees: Locked Meters	370,000	389,000	408,000	428,000	449,000
18	Standby Revenue	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000
20	Property Taxes	672,000	685,000	699,000	713,000	727,000
21	Private Fire Svc & Special Services	200,000	204,000	208,000	212,000	216,000
22	Water Capacity & Meter Install Fees	486,000	250,000	258,000	258,000	258,000
23	Interest Earnings & Gain Loss/Chg Mkt Value	128,000	196,000	194,000	200,000	193,000
24	HDMC WWTP Reimbursements	281,000	298,000	310,000	322,000	336,000
25	Other Revenues	25,000	25,000	25,000	25,000	25,000
26	Total Revenues	10,124,000	10,964,000	11,859,000	12,724,000	13,520,000
27 28	SRF Grant for Chromium 6 Project SRF Loan for Chromium 6 Project		10,000,000 8,000,000			
	,		7,00			
30	EXPENSES					
31	Operating & Maintenance	4 252 222		4 500 000	4 500 000	4 500 000
32	Production	1,360,000	1,442,000	1,500,000	1,560,000	1,622,000
33 34	Recharge Water Purchases from MWA Distribution	571,000 1,212,000	645,000	664,000	684,000	705,000
35	Customer Service	778,000	1,285,000 825,000	1,336,000 858,000	1,389,000 892,000	1,445,000 928,000
36	Administration	1,255,000	1,330,000	1,383,000	1,438,000	1,496,000
37	Finance	931,000	987,000	1,026,000	1,067,000	1,110,000
38	Human Resources	267,000	283,000	294,000	306,000	318,000
39	HDMC WWTP Operations (reimburseable)	230,000	244,000	254,000	264,000	275,000
40	Standby Admin/Developmt & Engineering	87,000	92,000	96,000	100,000	104,000
41	Add'l Staffing Needs (deferred & reduced)	44,000	47,000	49,000	190,000	198,000
42	CIRP Program (Operating Portion)	442,000	469,000	488,000	508,000	528,000
43	Capitalized Overhead Adjustment	(100,000)	(106,000)	(110,000)	(114,000)	(119,000)
44	Chrome 6 Operations (estimated)	0	0	0	750,000	780,000
46	Subtotal	7,077,000	7,543,000	7,838,000	9,034,000	9,390,000
47	Debt Service					
48	2018 Installment Sale Agmt (CIRP)	268,000	268,000	268,000	268,000	268,000
49	Chrome 6 SRF Loan (\$8M, 2.75%, 30-Yr)				400,000	400,000
50	Subtotal	268,000	268,000	268,000	668,000	668,000
51	Capital/Non-Operating					
52	Capital Improvement Program (CIP)	1,785,000	2,500,000	2,588,000	2,679,000	2,773,000
53	Equipment/Technology	300,000	375,000	390,000	406,000	422,000
54	Studies/Reports	300,000	200,000	208,000	216,000	225,000
55	Chromium 6 Project (grant & loan funded)	183.000	18,000,000		195 000	195 000
56	Meter Replacement Program	182,000	185,000	185,000	185,000	185,000
57 58	Admin Building & Financing (deleted)  Morongo Basin Pipeline Debt Reimbs	0	0	0	0	0 0
59	Subtotal	2,567,000	21,260,000	3,371,000	3,486,000	3,605,000
60	Total Expenses	9,912,000	29,071,000	11,477,000	13,188,000	13,663,000
61	Revenues Less Expenses	212,000	(107,000)	382,000	(464,000)	(143,000)
62	Ending Fund Reserves	13,058,000	12,951,000	13,333,000	12,869,000	12,726,000
63	Min Fund Rsrv Target (50% 0&M + \$2M)	5,538,500	5,771,500	5,919,000	6,517,000	6,695,000
64	Debt Service Coverage	11.37	12.76	15.00	5.52	6.18
65	Cumulative Change in Fund Reserves	212,000	105,000	487,000	23,000	(120,000)

Table A2 Joshua Basin Water District Projected Water Rates

Scenario A

Best Management Practice with Cost Reductions

Limit Fixed Rate Increases to 5% per Year

1-1/2 inches		Projected	d Water F	Rates A			
Rates   2023   2024   2025   2026   2027		Current		Project	ted Rates Ef	fective	
Display		Water	Mar-1	Jan-1	Jan-1	Jan-1	Jan-1
Fixed Rate Increases		Rates	2023	2024	2025	2026	2027
### BASIC MONTHLY FEE   Fixed monthly charge based on meter size	Overall Rate Increases		16%	14%	12%	10%	8%
Fixed monthly charge based on meter size         Meter Size       3/4 & 1 inch       \$41.35       \$43.42       \$45.59       \$47.87       \$50.26       \$52.77         1-1/2 inches       137.83       144.72       151.96       159.56       167.54       175.92         2 inches       220.53       231.56       243.14       255.30       268.07       281.47         3 inches       413.50       434.18       455.89       478.68       502.61       527.74         Usage Rate Increases       23.2%       19.0%       15.4%       12.2%       9.3%         MONTHLY WATER FLOW CHARGES         Billed based on metered water use, as measured in units of one hundred cubic feet (\$/hcf)         For 3/4" and 1" Meters         Tier 1       0 - 5 units       \$6.20       \$7.62       \$9.20       \$10.97       \$12.58       \$13.96         Tier 2       5.01 - 10 units       7.70       9.37       11.20       12.97       14.58       15.96         Tier 4       20.01 + units       10.70       12.87       15.20       16.97       18.58       19.96         For 1-1/2", 2" and 3" Meters         Unit rate for all wat	Fixed Rate Increases		5%	5%	5%	5%	5%
Meter Size         3/4 & 1 inch         \$41.35         \$43.42         \$45.59         \$47.87         \$50.26         \$52.77           1-1/2 inches         137.83         144.72         151.96         159.56         167.54         175.92           2 inches         220.53         231.56         243.14         255.30         268.07         281.47           3 inches         413.50         434.18         455.89         478.68         502.61         527.74           Usage Rate Increases         23.2%         19.0%         15.4%         12.2%         9.3%           MONTHLY WATER FLOW CHARGES           Billed based on metered water use, as measured in units of one hundred cubic feet (\$/hcf)           For 3/4" and 1" Meters           Tier 1         0 - 5 units         \$6.20         \$7.62         \$9.20         \$10.97         \$12.58         \$13.96           Tier 2         5.01 - 10 units         7.70         9.37         11.20         12.97         14.58         15.96           Tier 3         10.01 - 20 units         10.70         12.87         15.20         16.97         18.58         19.96           For 1-1/2", 2" and 3" Meters         Unit rate for all water use         \$7.70 <t< td=""><td>BASIC MONTHLY FEE</td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	BASIC MONTHLY FEE						
3/4 & 1 inch	Fixed monthly charge based on meter :	size					
1-1/2 inches	Meter Size						
220.53 231.56 243.14 255.30 268.07 281.47 3 inches 413.50 434.18 455.89 478.68 502.61 527.74 434.18 455.89 478.68 502.61 527.74 434.18 455.89 478.68 502.61 527.74 434.18 455.89 478.68 502.61 527.74 434.18 455.89 478.68 502.61 527.74 434.18 455.89 478.68 502.61 527.74 434.18 455.89 478.68 502.61 527.74 434.18 455.89 478.68 502.61 527.74 435.59 478.7 502.6 52.77 435.89 478.7 502.6 52.77 435.89 478.7 502.6 52.77 435.89 478.7 502.6 52.77 435.89 478.7 502.6 52.77 435.89 478.7 50.26 52.77 435.89 4	3/4 & 1 inch	\$41.35	\$43.42	\$45.59	\$47.87	\$50.26	\$52.77
3 inches 413.50 434.18 455.89 478.68 502.61 527.74  Usage Rate Increases 23.2% 19.0% 15.4% 12.2% 9.3%  MONTHLY WATER FLOW CHARGES  Billed based on metered water use, as measured in units of one hundred cubic feet (\$/hcf)  For 3/4" and 1" Meters  Tier 1 0 - 5 units \$6.20 \$7.62 \$9.20 \$10.97 \$12.58 \$13.96  Tier 2 5.01 - 10 units 7.70 9.37 11.20 12.97 14.58 15.96  Tier 3 10.01 - 20 units 9.20 11.12 13.20 14.97 16.58 17.96  Tier 4 20.01 + units 10.70 12.87 15.20 16.97 18.58 19.96  For 1-1/2", 2" and 3" Meters  Unit rate for all water use \$7.70 \$9.49 \$11.29 \$13.03 \$14.61 \$15.96  Note: 1 unit = one hundred cubic feet, or approximately 748 gallons.  PRIVATE FIRE PROTECTION CHARGES  Fixed monthly charge based on size of service connection  Service Size  2 inches \$22.05 \$23.16 \$24.31 \$25.53 \$26.81 \$28.15  3 inches 41.34 43.42 45.59 47.87 50.26 52.77  4 inches 68.91 72.38 75.97 79.78 83.78 87.97  6 inches 137.81 144.75 151.94 159.56 167.56 175.94	1-1/2 inches	137.83	144.72	151.96	159.56	167.54	175.92
Usage Rate Increases  MONTHLY WATER FLOW CHARGES  Billed based on metered water use, as measured in units of one hundred cubic feet (\$/hcf)  For 3/4" and 1" Meters  Tier 1 0 - 5 units \$6,20 \$7.62 \$9.20 \$10.97 \$12.58 \$13.96  Tier 2 5.01 - 10 units 7.70 9.37 11.20 12.97 14.58 15.96  Tier 3 10.01 - 20 units 9.20 11.12 13.20 14.97 16.58 17.96  Tier 4 20.01 + units 10.70 12.87 15.20 16.97 18.58 19.96  For 1-1/2", 2" and 3" Meters  Unit rate for all water use \$7.70 \$9.49 \$11.29 \$13.03 \$14.61 \$15.96  Note: 1 unit = one hundred cubic feet, or approximately 748 gallons.  PRIVATE FIRE PROTECTION CHARGES  Fixed monthly charge based on size of service connection  Service Size 2 inches \$22.05 \$23.16 \$24.31 \$25.53 \$26.81 \$28.15 3 inches 41.34 43.42 45.59 47.87 50.26 52.77 4 inches 68.91 72.38 75.97 79.78 83.78 87.97 6 inches 137.81 144.75 151.94 159.56 167.56 175.94	2 inches	220.53	231.56	243.14	255.30	268.07	281.47
MONTHLY WATER FLOW CHARGES  Billed based on metered water use, as measured in units of one hundred cubic feet (\$/hcf)  For 3/4" and 1" Meters  Tier 1	3 inches	413.50	434.18	455.89	478.68	502.61	527.74
Billed based on metered water use, as measured in units of one hundred cubic feet (\$/hcf)  For 3/4" and 1" Meters  Tier 1 0 - 5 units \$6.20 \$7.62 \$9.20 \$10.97 \$12.58 \$13.96  Tier 2 5.01 - 10 units 7.70 9.37 11.20 12.97 14.58 15.96  Tier 3 10.01 - 20 units 9.20 11.12 13.20 14.97 16.58 17.96  Tier 4 20.01 + units 10.70 12.87 15.20 16.97 18.58 19.96  For 1-1/2", 2" and 3" Meters Unit rate for all water use \$7.70 \$9.49 \$11.29 \$13.03 \$14.61 \$15.96  Note: 1 unit = one hundred cubic feet, or approximately 748 gallons.  PRIVATE FIRE PROTECTION CHARGES  Fixed monthly charge based on size of service connection  Service Size 2 inches \$22.05 \$23.16 \$24.31 \$25.53 \$26.81 \$28.15  3 inches 41.34 43.42 45.59 47.87 50.26 52.77  4 inches 68.91 72.38 75.97 79.78 83.78 87.97  6 inches 137.81 144.75 151.94 159.56 167.56 175.94	Usage Rate Increases		23.2%	19.0%	15.4%	12.2%	9.3%
Billed based on metered water use, as measured in units of one hundred cubic feet (\$/hcf)  For 3/4" and 1" Meters  Tier 1 0 - 5 units \$6.20 \$7.62 \$9.20 \$10.97 \$12.58 \$13.96  Tier 2 5.01 - 10 units 7.70 9.37 11.20 12.97 14.58 15.96  Tier 3 10.01 - 20 units 9.20 11.12 13.20 14.97 16.58 17.96  Tier 4 20.01 + units 10.70 12.87 15.20 16.97 18.58 19.96  For 1-1/2", 2" and 3" Meters Unit rate for all water use \$7.70 \$9.49 \$11.29 \$13.03 \$14.61 \$15.96  Note: 1 unit = one hundred cubic feet, or approximately 748 gallons.  PRIVATE FIRE PROTECTION CHARGES  Fixed monthly charge based on size of service connection  Service Size 2 inches \$22.05 \$23.16 \$24.31 \$25.53 \$26.81 \$28.15  3 inches 41.34 43.42 45.59 47.87 50.26 52.77  4 inches 68.91 72.38 75.97 79.78 83.78 87.97  6 inches 137.81 144.75 151.94 159.56 167.56 175.94	MONTHLY WATER FLOW CHARGES						
For 3/4" and 1" Meters  Tier 1 0 - 5 units \$6.20 \$7.62 \$9.20 \$10.97 \$12.58 \$13.96  Tier 2 5.01 - 10 units 7.70 9.37 11.20 12.97 14.58 15.96  Tier 3 10.01 - 20 units 9.20 11.12 13.20 14.97 16.58 17.96  Tier 4 20.01 + units 10.70 12.87 15.20 16.97 18.58 19.96  For 1-1/2", 2" and 3" Meters Unit rate for all water use \$7.70 \$9.49 \$11.29 \$13.03 \$14.61 \$15.96  Note: 1 unit = one hundred cubic feet, or approximately 748 gallons.  PRIVATE FIRE PROTECTION CHARGES  Fixed monthly charge based on size of service connection  Service Size 2 inches \$22.05 \$23.16 \$24.31 \$25.53 \$26.81 \$28.15  3 inches 41.34 43.42 45.59 47.87 50.26 52.77  4 inches 68.91 72.38 75.97 79.78 83.78 87.97  6 inches 137.81 144.75 151.94 159.56 167.56 175.94			n units of on	e hundred c	uhic feet (\$/	hcf)	
Tier 1 0 - 5 units \$6.20 \$7.62 \$9.20 \$10.97 \$12.58 \$13.96 Tier 2 5.01 - 10 units 7.70 9.37 11.20 12.97 14.58 15.96 Tier 3 10.01 - 20 units 9.20 11.12 13.20 14.97 16.58 17.96 Tier 4 20.01 + units 10.70 12.87 15.20 16.97 18.58 19.96  For 1-1/2", 2" and 3" Meters Unit rate for all water use \$7.70 \$9.49 \$11.29 \$13.03 \$14.61 \$15.96  Note: 1 unit = one hundred cubic feet, or approximately 748 gallons.  PRIVATE FIRE PROTECTION CHARGES Fixed monthly charge based on size of service connection Service Size 2 inches \$22.05 \$23.16 \$24.31 \$25.53 \$26.81 \$28.15 3 inches 41.34 43.42 45.59 47.87 50.26 52.77 4 inches 68.91 72.38 75.97 79.78 83.78 87.97 6 inches 137.81 144.75 151.94 159.56 167.56 175.94						,	
Tier 2 5.01 - 10 units 7.70 9.37 11.20 12.97 14.58 15.96 Tier 3 10.01 - 20 units 9.20 11.12 13.20 14.97 16.58 17.96 Tier 4 20.01 + units 10.70 12.87 15.20 16.97 18.58 19.96  For 1-1/2", 2" and 3" Meters Unit rate for all water use \$7.70 \$9.49 \$11.29 \$13.03 \$14.61 \$15.96  Note: 1 unit = one hundred cubic feet, or approximately 748 gallons.  PRIVATE FIRE PROTECTION CHARGES Fixed monthly charge based on size of service connection Service Size 2 inches \$22.05 \$23.16 \$24.31 \$25.53 \$26.81 \$28.15 3 inches 41.34 43.42 45.59 47.87 50.26 52.77 4 inches 68.91 72.38 75.97 79.78 83.78 87.97 6 inches 137.81 144.75 151.94 159.56 167.56 175.94				40.00	440.0=	440.50	440.00
Tier 3							
Tier 4 20.01 + units 10.70 12.87 15.20 16.97 18.58 19.96  For 1-1/2", 2" and 3" Meters Unit rate for all water use \$7.70 \$9.49 \$11.29 \$13.03 \$14.61 \$15.96  Note: 1 unit = one hundred cubic feet, or approximately 748 gallons.  PRIVATE FIRE PROTECTION CHARGES  Fixed monthly charge based on size of service connection Service Size 2 inches \$22.05 \$23.16 \$24.31 \$25.53 \$26.81 \$28.15 3 inches 41.34 43.42 45.59 47.87 50.26 52.77 4 inches 68.91 72.38 75.97 79.78 83.78 87.97 6 inches 137.81 144.75 151.94 159.56 167.56 175.94							
For 1-1/2", 2" and 3" Meters   \$7.70   \$9.49   \$11.29   \$13.03   \$14.61   \$15.96							
Unit rate for all water use \$7.70 \$9.49 \$11.29 \$13.03 \$14.61 \$15.96  Note: 1 unit = one hundred cubic feet, or approximately 748 gallons.  PRIVATE FIRE PROTECTION CHARGES  Fixed monthly charge based on size of service connection  Service Size 2 inches \$22.05 \$23.16 \$24.31 \$25.53 \$26.81 \$28.15 3 inches 41.34 43.42 45.59 47.87 50.26 52.77 4 inches 68.91 72.38 75.97 79.78 83.78 87.97 6 inches 137.81 144.75 151.94 159.56 167.56 175.94	Tier 4 20.01 + units	10.70	12.87	15.20	16.97	18.58	19.96
Note: 1 unit = one hundred cubic feet, or approximately 748 gallons.	For 1-1/2", 2" and 3" Meters						
PRIVATE FIRE PROTECTION CHARGES           Fixed monthly charge based on size of service connection           Service Size         \$22.05         \$23.16         \$24.31         \$25.53         \$26.81         \$28.15           3 inches         41.34         43.42         45.59         47.87         50.26         52.77           4 inches         68.91         72.38         75.97         79.78         83.78         87.97           6 inches         137.81         144.75         151.94         159.56         167.56         175.94	Unit rate for all water use	\$7.70	\$9.49	\$11.29	\$13.03	\$14.61	\$15.96
Fixed monthly charge based on size of service connection         Service Size       \$22.05       \$23.16       \$24.31       \$25.53       \$26.81       \$28.15         3 inches       41.34       43.42       45.59       47.87       50.26       52.77         4 inches       68.91       72.38       75.97       79.78       83.78       87.97         6 inches       137.81       144.75       151.94       159.56       167.56       175.94	Note: 1 unit = one hundred cubic feet,	or approxim	ately 748 g	allons.			
Service Size         \$22.05         \$23.16         \$24.31         \$25.53         \$26.81         \$28.15           3 inches         41.34         43.42         45.59         47.87         50.26         52.77           4 inches         68.91         72.38         75.97         79.78         83.78         87.97           6 inches         137.81         144.75         151.94         159.56         167.56         175.94	PRIVATE FIRE PROTECTION CHARG	iES					
Service Size         \$22.05         \$23.16         \$24.31         \$25.53         \$26.81         \$28.15           3 inches         41.34         43.42         45.59         47.87         50.26         52.77           4 inches         68.91         72.38         75.97         79.78         83.78         87.97           6 inches         137.81         144.75         151.94         159.56         167.56         175.94	Fixed monthly charge based on size of	service conr	nection				
2 inches       \$22.05       \$23.16       \$24.31       \$25.53       \$26.81       \$28.15         3 inches       41.34       43.42       45.59       47.87       50.26       52.77         4 inches       68.91       72.38       75.97       79.78       83.78       87.97         6 inches       137.81       144.75       151.94       159.56       167.56       175.94	,						
3 inches     41.34     43.42     45.59     47.87     50.26     52.77       4 inches     68.91     72.38     75.97     79.78     83.78     87.97       6 inches     137.81     144.75     151.94     159.56     167.56     175.94	2 inches	\$22.05	\$23.16	\$24.31	\$25.53	\$26.81	\$28.15
4 inches       68.91       72.38       75.97       79.78       83.78       87.97         6 inches       137.81       144.75       151.94       159.56       167.56       175.94	3 inches						52.77
	4 inches						87.97
	6 inches	137.81	144.75	151.94	159.56	167.56	175.94
220.30   231.00   243.10   253.30   200.10   201.30	8 inches	220.50	231.60	243.10	255.30	268.10	281.50

### **Scenario B**

#### **Reduced Rate Increases with Partial Drawdown of Fund Reserves**

Maintains Same Funding Levels Over Next 5 Years as Scenario A But Requires More Rate Increases After 5 Years



	Table B1 JBWD Cash Flow Proje	ctions B - Redu	iced Rate Incr	eases w/ Add'	l Reserve Draw	Years 1 - 5
		1	2	3	4	5
		Projected	Projected	Projected	Projected	Projected
		2022/23	2023/24	2024/25	2025/26	2026/27
1	Effective Date of Rate Adjustment	Mar-1	Jan-1	Jan-1	Jan-1	Jan-1
2	Overall Rate Increase Target	14%	12%		8%	8%
3 4	Fixed Rate Increase %	5% 19.9%	5% 16.0%	5%	5% 9.4%	5%
5	Usage Rate Increase % Growth: New 1" Meters or Equivalents	50	25	<b>12.6%</b> 25	25	<b>9.4%</b> 25
6	Growth %	1.0%	0.5%	0.5%	0.5%	0.5%
7	Wtr Demand Elasticity (Response to Rate Incr)	(0.10)	(0.10)	(0.10)	(0.10)	(0.10)
8	Change in Water Use After Rate Increase	-2.0%	-1.6%	-1.3%	-0.9%	-0.9%
9	Water Purchases from MWA (AF)	916	1,000	1,000	1,000	1,000
10 11	MWA Rate per AF Interest Earnings Rate	\$623 1.0%	\$645 1.5%	\$664 1.5%	\$684 1.5%	\$705 1.5%
12	Annual Cost Escalator	1.070	6.0%	4.0%	4.0%	4.0%
12	Desiration Front Desarros	¢12.846.000	¢12.012.000	¢42.720.000	Ć12 025 000	¢11.012.000
13	Beginning Fund Reserves	\$12,846,000	\$13,013,000	\$12,739,000	\$12,825,000	\$11,913,000
14	REVENUES				ear Rate Increase >>	64%
15	Basic Monthly Fees	2,560,000	2,731,000	2,882,000	3,041,000	3,209,000
16	Water Usage Charges	4,157,000	4,820,000	5,382,000	5,885,000	6,344,000
17	Basic Monthly Fees: Locked Meters	370,000	389,000	408,000	428,000	449,000
	Standby Revenue	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000
20	Property Taxes	672,000	685,000	699,000	713,000	727,000
	Private Fire Svc & Special Services	200,000	204,000	208,000	212,000	216,000
22	Water Capacity & Meter Install Fees	486,000	250,000 195,000	258,000	258,000	258,000
23 24	Interest Earnings & Gain Loss/Chg Mkt Value HDMC WWTP Reimbursements	128,000	298,000	191,000 310,000	192,000	179,000 336,000
25	Other Revenues	281,000 25,000	25,000	25,000	322,000 25,000	25,000
	Total Revenues					
26	Total Revenues	10,079,000	10,797,000	11,563,000	12,276,000	12,943,000
27 28	SRF Grant for Chromium 6 Project SRF Loan for Chromium 6 Project		10,000,000 8,000,000			
20	Sili Edul for Chromain of Toject		0,000,000			
30	EXPENSES	<b>1</b>				
31	Operating & Maintenance					
32	Production	1,360,000	1,442,000	1,500,000	1,560,000	1,622,000
33	Recharge Water Purchases from MWA	571,000	645,000	664,000	684,000	705,000
34	Distribution	1,212,000	1,285,000	1,336,000	1,389,000	1,445,000
35	Customer Service	778,000	825,000	858,000	892,000	928,000
36	Administration	1,255,000	1,330,000	1,383,000	1,438,000	1,496,000
37	Finance	931,000	987,000	1,026,000	1,067,000	1,110,000
38	Human Resources	267,000	283,000	294,000	306,000	318,000
39 40	HDMC WWTP Operations (reimburseable) Standby Admin/Dvlmnt & Engin/Other	230,000 87,000	244,000 92,000	254,000 96,000	264,000 100,000	275,000 104,000
41	Add'l Staffing Needs (deferred & reduced)	44,000	47,000	49,000	190,000	198,000
	CIRP Program (Operating Portion)	442,000	469,000	488,000	508,000	528,000
43	Capitalized Overhead Adjustment	(100,000)	(106,000)	(110,000)	(114,000)	(119,000)
44	Chrome 6 Operations (estimated)	(200,000,	0	0	750,000	780,000
46	Subtotal	7,077,000	7,543,000	7,838,000	9,034,000	9,390,000
		,,,,,,,,,,	1,010,000	,,,,,,,,,,,	2,00 1,000	,,,,,,,,,
47	Debt Service					
48	2018 Installment Sale Agmt (CIRP)	268,000	268,000	268,000	268,000	268,000
49	Chrome 6 SRF Loan (\$8M, 2.75%, 30-Yr)				400,000	400,000
50	Subtotal	268,000	268,000	268,000	668,000	668,000
51	Capital/Non-Operating					
52	Capital Improvement Program (CIP)	1,785,000	2,500,000	2,588,000	2,679,000	2,773,000
53	Equipment/Technology	300,000	375,000	390,000	406,000	422,000
54	Studies/Reports	300,000	200,000	208,000	216,000	225,000
55	Chromium 6 Project (grant & loan funded)	0	18,000,000		0	0
56	Meter Replacement Program	182,000	185,000	185,000	185,000	185,000
57	Admin Building & Financing (deleted)	0	0	0	0	0
58	Morongo Basin Pipeline Debt Reimbs	0	0	0	0	0
59	Subtotal	2,567,000	21,260,000	3,371,000	3,486,000	3,605,000
60	Total Expenses	9,912,000	29,071,000	11,477,000	13,188,000	13,663,000
C4	Devenues Less Ever-	467.000	/274.000\	00.000	/042.000	(720,000)
61	Revenues Less Expenses Ending Eurol Peserves	167,000	(274,000)		(912,000)	(720,000)
62	Ending Fund Reserves	13,013,000	12,739,000	12,825,000	11,913,000	11,193,000
63	Min Fund Rsrv Target (50% 0&M + \$2M)	5,538,500	5,771,500	5,919,000	6,517,000	6,695,000
64 65	Debt Service Coverage	11.20	12.14	13.90	4.85	5.32
65	Cumulative Change in Fund Reserves	167,000	(107,000)	(21,000)	(933,000)	(1,653,000)

Table B2 Joshua Basin Water District Projected Water Rates

Scenario B
Reduced Rate Increases with Add'l Reserve Drawdown
Limit Fixed Rate Increases to 5% per Year

	Projected	d Water R	lates B				
	Current						
	Water	Mar-1	Jan-1	Jan-1	Jan-1	Jan-1	
	Rates	2023	2024	2025	2026	2027	
Overall Rate Increases		14%	12%	10%	8%	8%	
Fixed Rate Increases		5%	5%	5%	5%	5%	
BASIC MONTHLY FEE							
Fixed monthly charge based on meter .	size						
Meter Size							
3/4 & 1 inch	\$41.35	\$43.42	\$45.59	\$47.87	\$50.26	\$52.77	
1-1/2 inches	137.83	144.72	151.96	159.56	167.54	175.92	
2 inches	220.53	231.56	243.14	255.30	268.07	281.47	
3 inches	413.50	434.18	455.89	478.68	502.61	527.74	
Usage Rate Increases		19.9%	16.0%	12.6%	9.4%	9.4%	
MONTHLY WATER FLOW CHARGES	5						
Billed based on metered water use, as		n units of on	e hundred c	ubic feet (\$/	bic feet (\$/hcf)		
For 3/4" and 1" Meters					,		
Tier 1 0 - 5 units	\$6.20	\$7.36	\$8.62	\$10.00	\$11.16	\$12.42	
Tier 2 5.01 - 10 units	7.70	9.11	38.62 10.62	12.00	13.16	14.42	
Tier 3 10.01 - 20 units	9.20	10.86	12.62	14.00	15.16	16.42	
Tier 4 20.01 + units	10.70	12.61	14.62	16.00	17.16	18.42	
	10:70	12.01	14.02	10.00	17.10	10.42	
For 1-1/2", 2" and 3" Meters	4	4	4	4	4	4	
Unit rate for all water use	\$7.70	\$9.23	\$10.71	\$12.06	\$13.19	\$14.42	
Note: 1 unit = one hundred cubic feet,	or approxim	ately 748 go	allons.				
PRIVATE FIRE PROTECTION CHARG	iES						
Fixed monthly charge based on size of	service conn	nection					
<u>Service Size</u>							
2 inches	\$22.05	\$23.16	\$24.31	\$25.53	\$26.81	\$28.15	
3 inches	41.34	43.42	45.59	47.87	50.26	52.77	
4 inches	68.91	72.38	75.97	79.78	83.78	87.97	
6 inches	137.81	144.75	151.94	159.56	167.56	175.94	
8 inches	220.50	231.60	243.10	255.30	268.10	281.50	

## **Scenario C**

#### Limit Overall Rate Increases to 9% Per Year & Reduce CIP

Assumes Continued 9% Rate Increases After 5 Years
To Eventually Support Full Capital Funding

	Table C1 JBWD Cash Flow Proje	ections C - Limi	t Overall Rate	Increases to 9	%	Years 1 - 5
		1	2	3	4	5
		Projected	Projected	Projected	Projected	Projected
		2022/23	2023/24	2024/25	2025/26	2026/27
1	Effective Date of Rate Adjustment	Mar-1	Jan-1	Jan-1	Jan-1	Jan-1
2	Overall Rate Increase Target Fixed Rate Increase %	9% 5%	9% 5%	9% 5%	9% 5%	9% 5%
4	Usage Rate Increase %	11.6%	11.5%	11.3%	11.2%	11.1%
5	Growth: New 1" Meters or Equivalents	50	25	25	25	25
6	Growth %	1.0%	0.5%	0.5%	0.5%	0.5%
7	Wtr Demand Elasticity (Response to Rate Incr)	(0.10)	(0.10)	(0.10)	(0.10)	(0.10)
8 9	Change in Water Use After Rate Increase Water Purchases from MWA (AF)	-1.2% 916	-1.1% 1,000	-1.1% 1,000	-1.1% 1,000	-1.1% 1,000
10	MWA Rate per AF	\$623	\$645	\$664	\$684	\$705
11	Interest Earnings Rate	1.0%	1.5%	1.5%	1.5%	1.5%
12	Annual Cost Escalator		6.0%	4.0%	4.0%	4.0%
13	Beginning Fund Reserves	\$12,846,000	\$12,897,000	\$12,756,000	\$12,910,000	\$12,096,000
14	REVENUES			Compounded 5-Ye	ear Rate Increase >>	54%
15	Basic Monthly Fees	2,560,000	2,731,000	2,882,000	3,041,000	3,209,000
16	Water Usage Charges	4,041,000	4,455,000	4,862,000	5,302,000	5,781,000
17	Basic Monthly Fees: Locked Meters	370,000	389,000	408,000	428,000	449,000
18	Standby Revenue	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000
20	Property Taxes	672,000	685,000	699,000	713,000	727,000
21	Private Fire Svc & Special Services	200,000	204,000	208,000	212,000	216,000
22	Water Capacity & Meter Install Fees	486,000	250,000	258,000	258,000	258,000
23	Interest Earnings & Gain Loss/Chg Mkt Value	128,000	193,000	191,000	194,000	181,000
24	HDMC WWTP Reimbursements	281,000	298,000	310,000	322,000	336,000
25	Other Revenues	25,000	25,000	25,000	25,000	25,000
26	Total Revenues	9,963,000	10,430,000	11,043,000	11,695,000	12,382,000
27	SRF Grant for Chromium 6 Project		10,000,000	>>>>		
28	SRF Loan for Chromium 6 Project		8,000,000	>>>>		
30	EXPENSES	1				
31	Operating & Maintenance	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \				
32	Production	1,360,000	1,442,000	1,500,000	1,560,000	1,622,000
33	Recharge Water Purchases from MWA	571,000	645,000	664,000	684,000	705,000
34	Distribution	1,212,000	1,285,000	1,336,000	1,389,000	1,445,000
35	Customer Service	778,000	825,000	858,000	892,000	928,000
36	Administration	1,255,000	1,330,000	1,383,000	1,438,000	1,496,000
37	Finance	931,000	987,000	1,026,000	1,067,000	1,110,000
38 39	Human Resources HDMC WWTP Operations (reimburseable)	267,000 230,000	283,000 244,000	294,000 254,000	306,000	318,000
40	Standby Admin/Dvlmnt & Engin/Other	87,000	92,000	96,000	264,000 100,000	275,000 104,000
41	Add'l Staffing Needs (deferred & reduced)	44,000	47,000	49,000	190,000	198,000
	CIRP Program (Operating Portion)	442,000	469,000	488,000	508,000	528,000
43	Capitalized Overhead Adjustment	(100,000)	(106,000)	(110,000)	(114,000)	(119,000)
44	Chrome 6 Operations (estimated)	0	0	0	750,000	780,000
46	Subtotal	7,077,000	7,543,000	7,838,000	9,034,000	9,390,000
47	Debt Service	300,000	200,000	300,000	300,000	300,000
48	2018 Installment Sale Agmt (CIRP)	268,000	268,000	268,000	268,000	268,000
49	Chrome 6 SRF Loan (\$8M, 2.75%, 30-Yr)				400,000	400,000
50	Subtotal	268,000	268,000	268,000	668,000	668,000
51	Capital/Non-Operating					
52	Capital Improvement Program (CIP)	1,785,000	2,000,000	2,000,000	2,000,000	2,000,000
53	Equipment/Technology	300,000	375,000	390,000	406,000	422,000
54	Studies/Reports	300,000	200,000	208,000	216,000	225,000
55	Chromium 6 Project (grant & loan funded)	0	18,000,000		0	0
56	Meter Replacement Program	182,000	185,000	185,000	185,000	185,000
57	Admin Building & Financing (deleted)	0	0	0	0	0
58	Morongo Basin Pipeline Debt Reimbs	0	0	0	0	0
59	Subtotal	2,567,000	20,760,000	2,783,000	2,807,000	2,832,000
60	Total Expenses	9,912,000	28,571,000	10,889,000	12,509,000	12,890,000
61	Revenues Less Expenses	51,000	(141,000)	154,000	(814,000)	(508,000)
62	Ending Fund Reserves	12,897,000	12,756,000	12,910,000	12,096,000	11,588,000
63	Min Fund Rsrv Target (50% O&M + \$2M)	5,538,500	5,771,500	5,919,000	6,517,000	6,695,000
64	Debt Service Coverage	10.77	10.77	11.96	3.98	4.48
65	Cumulative Change in Fund Reserves	51,000	(90,000)	64,000	(750,000)	(1,258,000)

Table C2 Joshua Basin Water District Projected Water Rates

Scenario C
Limit Overall Rate Increases to 9%
Limit Fixed Rate Increases to 5% per Year

1-1/2 inches		Projected	d Water R	Rates C						
Rates   2023   2024   2025   2026   2027		Current		Projected Rates Effective						
Section   Service Size   Section   Section   Section   Service Size   Section		Water	Mar-1	Jan-1	Jan-1	Jan-1	Jan-1			
Fixed Rate Increases   5%   5%   5%   5%   5%   5%   5%   5		Rates	2023	2024	2025	2026	2027			
BASIC MONTHLY FEE Fixed monthly charge based on meter size  Meter Size 3/4 & 1 inch \$41.35 \$43.42 \$45.59 \$47.87 \$50.26 \$52.77 1-1/2 inches 137.83 144.72 151.96 159.56 167.54 175.92 2 inches 220.53 231.56 243.14 255.30 268.07 281.47 3 inches 413.50 434.18 455.89 478.68 502.61 527.74  Usage Rate Increases 11.6% 11.5% 11.3% 11.2% 11.1%  MONTHLY WATER FLOW CHARGES Billed based on metered water use, as measured in units of one hundred cubic feet (\$/hcf)  For 3/4" and 1" Meters Tier 1 0 - 5 units \$6.20 \$6.72 \$7.48 \$8.60 \$9.82 \$11.16 Tier 2 5.01 - 10 units 7.70 8.47 9.48 10.60 11.82 13.16 Tier 3 10.01 - 20 units 9.20 10.22 11.48 12.60 13.82 15.16 Tier 4 20.01 + units 10.70 11.97 13.48 14.60 15.82 17.16  For 1-1/2", 2" and 3" Meters Unit rate for all water use \$7.70 \$8.59 \$9.57 \$10.66 \$11.85 \$13.16 Note: 1 unit = one hundred cubic feet, or approximately 748 gallons.  PRIVATE FIRE PROTECTION CHARGES Fixed monthly charge based on size of service connection Service Size 2 inches \$22.05 \$23.16 \$24.31 \$25.53 \$26.81 \$28.15 3 inches 41.34 43.42 45.59 47.87 50.26 52.77 4 inches 68.91 72.38 75.97 79.78 83.78 87.95	Overall Rate Increases		9%	9%	9%	9%	9%			
## Fixed monthly charge based on meter size   Meter Size   3/4 & 1 inch   \$41.35   \$43.42   \$45.59   \$47.87   \$50.26   \$52.77    -1/2 inches   137.83   144.72   151.96   159.56   167.54   175.92	Fixed Rate Increases		5%	5%	5%	5%	5%			
Meter Size         3/4 & 1 inch         \$41.35         \$43.42         \$45.59         \$47.87         \$50.26         \$52.77           1-1/2 inches         137.83         144.72         151.96         159.56         167.54         175.92           2 inches         220.53         231.56         243.14         255.30         268.07         281.47           3 inches         413.50         434.18         455.89         478.68         502.61         527.74           Usage Rate Increases         11.6%         11.5%         11.3%         11.2%         11.1%           MONTHLY WATER FLOW CHARGES           Billed based on metered water use, as measured in units of one hundred cubic feet (\$/hcf)           For 3/4" and 1" Meters           Tier 1         0 - 5 units         \$6.20         \$6.72         \$7.48         \$8.60         \$9.82         \$11.16           Tier 2         5.01 - 10 units         7.70         8.47         9.48         10.60         11.82         13.16           Tier 4         20.01 + units         10.70         11.97         13.48         14.60         15.82         17.16           For 1-1/2", 2" and 3" Meters         \$7.70         \$8.59         \$9.57         \$1	BASIC MONTHLY FEE									
3/4 & 1 inch	Fixed monthly charge based on meter .	size								
3/4 & 1 inch	Meter Size									
1-1/2 inches 2 inches 4 inches	I	\$41.35	\$43.42	\$45.59	\$47.87	\$50.26	\$52.77			
220.53 231.56 243.14 255.30 268.07 281.47 3 inches 413.50 434.18 455.89 478.68 502.61 527.74   Usage Rate Increases 11.6% 11.5% 11.3% 11.2% 11.1%   MONTHLY WATER FLOW CHARGES   Billed based on metered water use, as measured in units of one hundred cubic feet (\$/hcf)    For 3/4" and 1" Meters   Tier 1 0 - 5 units \$6.20 \$6.72 \$7.48 \$8.60 \$9.82 \$11.16   Tier 2 5.01 - 10 units 7.70 8.47 9.48 10.60 11.82 13.16   Tier 3 10.01 - 20 units 9.20 10.22 11.48 12.60 13.82 15.16   Tier 4 20.01 + units 10.70 11.97 13.48 14.60 15.82 17.16    For 1-1/2", 2" and 3" Meters   Unit rate for all water use \$7.70 \$8.59 \$9.57 \$10.66 \$11.85 \$13.16    Note: 1 unit = one hundred cubic feet, or approximately 748 gallons.  PRIVATE FIRE PROTECTION CHARGES   Fixed monthly charge based on size of service connection   Service Size   2 inches \$22.05 \$23.16 \$24.31 \$25.53 \$26.81 \$28.15   3 inches 41.34 43.42 45.59 47.87 50.26 52.77   4 inches 68.91 72.38 75.97 79.78 83.78 87.95	I -				159.56		175.92			
Usage Rate Increases  MONTHLY WATER FLOW CHARGES  Billed based on metered water use, as measured in units of one hundred cubic feet (\$/hcf)  For 3/4" and 1" Meters  Tier 1 0 - 5 units \$6.20 \$6.72 \$7.48 \$8.60 \$9.82 \$11.16  Tier 2 5.01 - 10 units 7.70 8.47 9.48 10.60 11.82 13.16  Tier 3 10.01 - 20 units 9.20 10.22 11.48 12.60 13.82 15.16  Tier 4 20.01 + units 10.70 11.97 13.48 14.60 15.82 17.16  For 1-1/2", 2" and 3" Meters  Unit rate for all water use \$7.70 \$8.59 \$9.57 \$10.66 \$11.85 \$13.16  Note: 1 unit = one hundred cubic feet, or approximately 748 gallons.  PRIVATE FIRE PROTECTION CHARGES  Fixed monthly charge based on size of service connection  Service Size 2 inches \$22.05 \$23.16 \$24.31 \$25.53 \$26.81 \$28.19  3 inches 41.34 43.42 45.59 47.87 50.26 52.77  4 inches 68.91 72.38 75.97 79.78 83.78 87.95		220.53	231.56	243.14	255.30	268.07	281.47			
MONTHLY WATER FLOW CHARGES  Billed based on metered water use, as measured in units of one hundred cubic feet (\$/hcf)  For 3/4" and 1" Meters  Tier 1	3 inches	413.50	434.18	455.89	478.68	502.61	527.74			
Billed based on metered water use, as measured in units of one hundred cubic feet (\$/hcf)  For 3/4" and 1" Meters  Tier 1     0 - 5 units	Usage Rate Increases		11.6%	11.5%	11.3%	11.2%	11.1%			
Billed based on metered water use, as measured in units of one hundred cubic feet (\$/hcf)  For 3/4" and 1" Meters  Tier 1     0 - 5 units	MONTHLY WATER FLOW CHARGES									
For 3/4" and 1" Meters Tier 1 0 - 5 units \$6.20 \$6.72 \$7.48 \$8.60 \$9.82 \$11.16 Tier 2 5.01 - 10 units 7.70 8.47 9.48 10.60 11.82 13.16 Tier 3 10.01 - 20 units 9.20 10.22 11.48 12.60 13.82 15.16 Tier 4 20.01 + units 10.70 11.97 13.48 14.60 15.82 17.16  For 1-1/2", 2" and 3" Meters Unit rate for all water use \$7.70 \$8.59 \$9.57 \$10.66 \$11.85 \$13.16  Note: 1 unit = one hundred cubic feet, or approximately 748 gallons.  PRIVATE FIRE PROTECTION CHARGES  Fixed monthly charge based on size of service connection  Service Size 2 inches \$22.05 \$23.16 \$24.31 \$25.53 \$26.81 \$28.15 3 inches 41.34 43.42 45.59 47.87 50.26 52.75 4 inches 68.91 72.38 75.97 79.78 83.78 87.95			n units of on	e hundred c	uhic feet (\$)	hic feet (\$/hcf)				
Tier 1 0 - 5 units \$6.20 \$6.72 \$7.48 \$8.60 \$9.82 \$11.16 Tier 2 5.01 - 10 units 7.70 8.47 9.48 10.60 11.82 13.16 Tier 3 10.01 - 20 units 9.20 10.22 11.48 12.60 13.82 15.16 Tier 4 20.01 + units 10.70 11.97 13.48 14.60 15.82 17.16  For 1-1/2", 2" and 3" Meters Unit rate for all water use \$7.70 \$8.59 \$9.57 \$10.66 \$11.85 \$13.16  Note: 1 unit = one hundred cubic feet, or approximately 748 gallons.  PRIVATE FIRE PROTECTION CHARGES Fixed monthly charge based on size of service connection Service Size 2 inches \$22.05 \$23.16 \$24.31 \$25.53 \$26.81 \$28.19 3 inches 41.34 43.42 45.59 47.87 50.26 52.73 4 inches 68.91 72.38 75.97 79.78 83.78 87.93		medsared ii	r units of on	l manarca c						
Tier 2 5.01 - 10 units 7.70 8.47 9.48 10.60 11.82 13.16 Tier 3 10.01 - 20 units 9.20 10.22 11.48 12.60 13.82 15.16 Tier 4 20.01 + units 10.70 11.97 13.48 14.60 15.82 17.16  For 1-1/2", 2" and 3" Meters Unit rate for all water use \$7.70 \$8.59 \$9.57 \$10.66 \$11.85 \$13.16  Note: 1 unit = one hundred cubic feet, or approximately 748 gallons.  PRIVATE FIRE PROTECTION CHARGES Fixed monthly charge based on size of service connection  Service Size 2 inches \$22.05 \$23.16 \$24.31 \$25.53 \$26.81 \$28.15 3 inches 41.34 43.42 45.59 47.87 50.26 52.75 4 inches 68.91 72.38 75.97 79.78 83.78 87.95										
Tier 3				·			\$11.16			
Tier 4 20.01 + units 10.70 11.97 13.48 14.60 15.82 17.16  For 1-1/2", 2" and 3" Meters Unit rate for all water use \$7.70 \$8.59 \$9.57 \$10.66 \$11.85 \$13.16  Note: 1 unit = one hundred cubic feet, or approximately 748 gallons.  PRIVATE FIRE PROTECTION CHARGES Fixed monthly charge based on size of service connection  Service Size 2 inches \$22.05 \$23.16 \$24.31 \$25.53 \$26.81 \$28.15 \$3 inches 41.34 43.42 45.59 47.87 50.26 52.75 4 inches 68.91 72.38 75.97 79.78 83.78 87.95							13.16			
For 1-1/2", 2" and 3" Meters   \$7.70   \$8.59   \$9.57   \$10.66   \$11.85   \$13.16							15.16			
Unit rate for all water use \$7.70 \$8.59 \$9.57 \$10.66 \$11.85 \$13.16  Note: 1 unit = one hundred cubic feet, or approximately 748 gallons.  PRIVATE FIRE PROTECTION CHARGES  Fixed monthly charge based on size of service connection  Service Size 2 inches \$22.05 \$23.16 \$24.31 \$25.53 \$26.81 \$28.15 3 inches 41.34 43.42 45.59 47.87 50.26 52.77 4 inches 68.91 72.38 75.97 79.78 83.78 87.97	Tier 4 20.01 + units	10.70	11.97	13.48	14.60	15.82	17.16			
Unit rate for all water use \$7.70 \$8.59 \$9.57 \$10.66 \$11.85 \$13.16  Note: 1 unit = one hundred cubic feet, or approximately 748 gallons.  PRIVATE FIRE PROTECTION CHARGES  Fixed monthly charge based on size of service connection  Service Size 2 inches \$22.05 \$23.16 \$24.31 \$25.53 \$26.81 \$28.15 3 inches 41.34 43.42 45.59 47.87 50.26 52.77 4 inches 68.91 72.38 75.97 79.78 83.78 87.97	For 1-1/2", 2" and 3" Meters									
PRIVATE FIRE PROTECTION CHARGES           Fixed monthly charge based on size of service connection           Service Size         \$22.05         \$23.16         \$24.31         \$25.53         \$26.81         \$28.15           3 inches         41.34         43.42         45.59         47.87         50.26         52.77           4 inches         68.91         72.38         75.97         79.78         83.78         87.97		\$7.70	\$8.59	\$9.57	\$10.66	\$11.85	\$13.16			
Fixed monthly charge based on size of service connection         Service Size       \$2 inches       \$22.05       \$23.16       \$24.31       \$25.53       \$26.81       \$28.15         3 inches       41.34       43.42       45.59       47.87       50.26       52.77         4 inches       68.91       72.38       75.97       79.78       83.78       87.97	Note: 1 unit = one hundred cubic feet,	or approxim	ately 748 go	allons.						
Fixed monthly charge based on size of service connection         Service Size       \$2 inches       \$22.05       \$23.16       \$24.31       \$25.53       \$26.81       \$28.15         3 inches       41.34       43.42       45.59       47.87       50.26       52.77         4 inches       68.91       72.38       75.97       79.78       83.78       87.97	PRIVATE FIRE PROTECTION CHARG	iES								
Service Size         \$22.05         \$23.16         \$24.31         \$25.53         \$26.81         \$28.15           3 inches         41.34         43.42         45.59         47.87         50.26         52.77           4 inches         68.91         72.38         75.97         79.78         83.78         87.97			nection							
2 inches       \$22.05       \$23.16       \$24.31       \$25.53       \$26.81       \$28.15         3 inches       41.34       43.42       45.59       47.87       50.26       52.77         4 inches       68.91       72.38       75.97       79.78       83.78       87.97	, ,									
3 inches     41.34     43.42     45.59     47.87     50.26     52.77       4 inches     68.91     72.38     75.97     79.78     83.78     87.93		\$22.05	\$23.16	\$24.31	\$25.53	\$26.81	\$28.15			
4 inches 68.91 72.38 75.97 79.78 83.78 87.97							52.77			
							87.97			
							175.94			
							281.50			

# **Scenario D**

### **Example of a Dedicated/Restricted Capital Improvement Charge**

Assumes Phase-In to \$3,500,000 Revenue Recovery Per Year



1   2   3   4   5		Table D1 JBWD Cash Flow Proje	ections D - Exa	mple of Dedica	ated Capital In	nprovement Cl	Years 1 - 5
Frojected   Projected   Project   Project   Project   Project   Projected   Project   Projected   Project   Projected   Project   Projected   Project		-	1	2	3	4	5
Descript Date of Rispa Agistrates*							
2   0   2   0   2   0   2   0   2   0   0			2022/23	2023/24	2024/25	2025/26	2026/27
Section   Company   Comp							
Bare   Membra   Mem		<u> </u>					
6         Convolve No.         0.5%         0.5%         0.5%         0.5%         0.5%         0.5%         0.5%         0.5%         0.5%         0.5%         0.5%         0.5%         0.0%							
Worder Purchases from MWA Rate process		Growth: New 1" Meters or Equivalents					
Barriage in Water Use Affice Pate Increase   0.0%   0.0%   0.0%   0.0%   0.0%   0.00							
9 work of the processor from MWA (AP)         116         1,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000         1,000         4,000         2,563,000         2,563,000         2,563,000         2,563,000         2,563,000         3,000					, ,	, ,	, ,
11   Interest Earnings Rate		~					
Beginning Fund Reserves		· ·					
1.   RVENUES			1.0%				
15 Basic Monthly Fees	13	Beginning Fund Reserves	\$12,846,000	\$12,649,000	\$12,195,000	\$11,628,000	\$11,104,000
14	14	REVENUES					
12	15	Basic Monthly Fees	2,496,000	2,538,000	2,550,000	2,563,000	2,640,000
18	16	Water Usage Charges	3,875,000	3,875,000	3,875,000	3,875,000	3,947,000
10   Deficition   1,000,000   2,000,000   3,300,000   3,300,000   3,300,000   2,200,000	17	· ·	·	·		·	
20   Property Taxes   672,000   685,000   713,000   712,000   71							
21   Private Fire Sw & Special Services   200,000   200,000   212,000   215,000   25			-				
22   Water Capacity & Meter Install Fees				•			,
157,000   133,000   174,000   322,000   336,000   325,000   25,0		· ·					
25	23		128,000	190,000	183,000	174,000	167,000
Total Revenues	24	HDMC WWTP Reimbursements	281,000	298,000	310,000	322,000	336,000
SRF Grant for Chromium 6 Project   10,000,000   3>>>	25	Other Revenues	25,000	25,000	25,000	25,000	25,000
SPE Loan for Chromium 6 Project   S.,000,000   SPE   SPE Loan for Chromium 6 Project   S.,000,000   SPE   SPE Loan for Chromium 6 Project	26	Total Revenues	9,715,000	10,617,000	11,660,000	12,694,000	13,386,000
EXPENSES	27	SRF Grant for Chromium 6 Project		10,000,000	>>>>		
Operating & Maintenance   1,360,000   1,442,000   1,500,000   1,622,000   705,000   3   Recharge Water Purchases from MWA   577,000   645,000   664,000   684,000   705,000   34   Distribution   1,222,000   1,285,000   1,336,000   1,389,000   1,445,000   32   Stormer Service   778,000   825,000   8358,000   892,000   928,000   306,000   318,00	28	SRF Loan for Chromium 6 Project		8,000,000	>>>>		
Production   1,360,000   1,442,000   1,500,000   1,560,000   1,622,000   38   Recharge Water Purchases from MWA   571,000   645,000   645,000   645,000   1,389,000   1,445,000   1,385,000   1,389,000   1,445,000   1,285,000   825,000   828,000   828,000   828,000   1,445,000   1,330,000   1,333,000   1,438,000   1,445,000   1,330,000   1,333,000   1,438,000   1,445,000   1,026,000   1	30	EXPENSES					
Recharge Water Purchases from MWA	31	Operating & Maintenance					
Distribution	32	Production			1,500,000	1,560,000	1,622,000
Section   Service   178,000   825,000   858,000   892,000   928,000   306,000   1,436,000   1,436,000   1,436,000   1,436,000   1,436,000   1,436,000   1,436,000   1,436,000   1,436,000   1,436,000   1,436,000   1,436,000   1,436,000   1,436,000   318,000   318,000   328,000   294,000   306,000   318,000   318,000   324,000   224,000   224,000   264,000   275,000   244,000   254,000   264,000   275,000   244,000   254,000   264,000   275,000   244,000   254,000   264,000   275,000   244,000   254,000   264,000   275,000   264,000   275,00		_					
Administration				1 1			
Finance							
Human Resources   267,000   283,000   294,000   306,000   318,000   318,000   391,000   391,000   230,000   224,000   254,000   254,000   254,000   275,000   100,000   104,00							
Standby Admin/Developmt & Engineering   87,000   92,000   96,000   100,000   104,000	38	Human Resources					
Add'l Staffing Needs (deferred & reduced)   44,000   47,000   49,000   190,000   198,000   120	39		230,000	244,000	254,000	264,000	275,000
42         CIRP Program (Operating Portion)         442,000         469,000         488,000         508,000         528,000           43         Capitalized Overhead Adjustment         (100,000)         (110,000) <td></td> <td></td> <td>87,000</td> <td>•</td> <td>96,000</td> <td></td> <td></td>			87,000	•	96,000		
43         Capitalized Overhead Adjustment         (100,000)         (106,000)         (111,000)         (114,000)         (119,000)           44         Chrome 6 Operations (estimated)         0         0         750,000         780,000         811,000           46         Subtotal         7,077,000         7,543,000         8,588,000         9,064,000         9,421,000           47         Debt Service         2018 Installment Sale Agmt (CIRP)         268,000         268,000         268,000         268,000         400,000         400,000           50         Subtotal         268,000         268,000         268,000         668,000         668,000         668,000           51         Capital Improvement Program (CIP)         1,785,000         2,500,000         2,588,000         2,679,000         2,773,000           52         Capital Improvement Program (CIP)         1,785,000         375,000         390,000         406,000         422,000           54         Studies/Reports         300,000         200,000         208,000         216,000         225,000           55         Chromium 6 Project (grant & loan funded)         0         18,000,000         >>>>         0         0         0           60         Morongo Basin Pipeline Debt Reim		-					
44 chrome 6 Operations (estimated)         0 r,077,000         750,000 r,550,000         780,000 r,064,000         811,000 r,000           46 Subtotal         7,077,000         7,543,000         8,588,000         9,064,000         9,421,000           47 Debt Service         2018 Installment Sale Agmt (CIRP)         268,000         268,000         268,000         268,000         268,000         400,				·		·	
46         Subtotal         7,077,000         7,543,000         8,588,000         9,064,000         9,421,000           47         Debt Service         2018 Installment Sale Agmt (CIRP)         268,000         268,000         268,000         268,000         268,000         268,000         400,000		1	` ' '	, , ,			
48       2018 Installment Sale Agmt (CIRP)       268,000       268,000       268,000       268,000       268,000       268,000       268,000       268,000       268,000       268,000       268,000       268,000       268,000       268,000       268,000       268,000       668,000							
48       2018 Installment Sale Agmt (CIRP)       268,000       268,000       268,000       268,000       268,000       268,000       268,000       268,000       268,000       268,000       268,000       268,000       268,000       268,000       268,000       268,000       668,000							
49 Chrome 6 SRF Loan (\$8M, 2.75%, 30-Yr)			300,000	300,000	200.000	300,000	300,000
50         Subtotal         268,000         268,000         268,000         668,000         668,000           51         Capital/Non-Operating         300,000         2,500,000         2,588,000         2,679,000         2,773,000           52         Capital Improvement Program (CIP)         1,785,000         2,500,000         390,000         406,000         422,000           53         Equipment/Technology         300,000         375,000         208,000         216,000         4225,000           54         Chromium 6 Project (grant & loan funded)         0         18,000,000         >>>>         0         0           55         Chromium 6 Project (grant & loan funded)         0         18,000,000         >>>>         0         0           56         Meter Replacement Program         182,000         185,000         185,000         185,000         185,000         185,000         185,000         185,000         185,000         185,000         185,000         185,000         0		• , ,	208,000	208,000	268,000		•
51 Capital/Non-Operating         Capital Improvement Program (CIP)         1,785,000         2,500,000         2,588,000         2,679,000         2,773,000           53 Equipment/Technology         300,000         375,000         390,000         406,000         422,000           54 Studies/Reports         300,000         200,000         208,000         216,000         225,000           55 Chromium 6 Project (grant & loan funded)         0         18,000,000         >>>>         0         0           56 Meter Replacement Program         182,000         185,000         185,000         185,000         185,000           57 Admin Building & Financing (deleted)         0         0         0         0         0         0           58 Morongo Basin Pipeline Debt Reimbs         0         0         0         0         0         0         0           59 Subtotal         2,567,000         21,260,000         3,371,000         3,486,000         3,605,000           60 Total Expenses         9,912,000         29,071,000         12,227,000         13,218,000         13,694,000           61 Revenues Less Expenses         (197,000)         (454,000)         (567,000)         (524,000)         (308,000)           62 Inding Fund Reserves         12,649,000			268,000	268,000	268,000		
52         Capital Improvement Program (CIP)         1,785,000         2,500,000         2,588,000         2,679,000         2,773,000           53         Equipment/Technology         300,000         375,000         390,000         406,000         422,000           54         Studies/Reports         300,000         200,000         208,000         216,000         225,000           55         Chromium 6 Project (grant & loan funded)         0         18,000,000         >>>>         0         0           56         Meter Replacement Program         182,000         185,000         10         0			'	,	,	, ,	,
53         Equipment/Technology         300,000         375,000         390,000         406,000         422,000           54         Studies/Reports         300,000         200,000         208,000         216,000         225,000           55         Chromium 6 Project (grant & loan funded)         0         18,000,000         >>>>         0         0           56         Meter Replacement Program         182,000         185,000         185,000         185,000         185,000         185,000         185,000         185,000         185,000         185,000         185,000         0 <td< td=""><td></td><td></td><td>1.785 000</td><td>2.500 000</td><td>2.588 000</td><td>2.679 000</td><td>2.773.000</td></td<>			1.785 000	2.500 000	2.588 000	2.679 000	2.773.000
54         Studies/Reports         300,000         200,000         208,000         216,000         225,000           55         Chromium 6 Project (grant & loan funded)         0         18,000,000         >>>>         0         0           56         Meter Replacement Program         182,000         185,000         185,000         185,000         185,000           57         Admin Building & Financing (deleted)         0         0         0         0         0         0           58         Morongo Basin Pipeline Debt Reimbs         0							
56         Meter Replacement Program         182,000         185,000         185,000         185,000         185,000         185,000         185,000         185,000         185,000         185,000         185,000         185,000         0	54		300,000	200,000	208,000	216,000	
57         Admin Building & Financing (deleted)         0						- 1	0
58         Morongo Basin Pipeline Debt Reimbs         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         3,486,000         3,605,000         3,605,000         3,605,000         3,694,000         12,227,000         13,218,000         13,694,000         13,694,000         12,227,000         13,218,000         13,694,000         12,649,000         12,195,000         11,628,000         11,104,000         10,796,000           62         Ending Fund Reserves         12,649,000         12,195,000         11,628,000         11,104,000         10,796,000           63         Min Fund Rsrv Target (50% O&M+\$52M)         5,538,500         5,771,500         6,294,000         6,532,000         6,710,500           64         Debt Service Coverage         9.84         11.47         11.46         5.43         5.94					185,000		185,000
59         Subtotal         2,567,000         21,260,000         3,371,000         3,486,000         3,605,000           60         Total Expenses         9,912,000         29,071,000         12,227,000         13,218,000         13,694,000           61         Revenues Less Expenses         (197,000)         (454,000)         (567,000)         (524,000)         (308,000)           62         Ending Fund Reserves         12,649,000         12,195,000         11,628,000         11,104,000         10,796,000           63         Min Fund Rsrv Target (50% O&M+\$2M)         5,538,500         5,771,500         6,294,000         6,532,000         6,710,500           64         Debt Service Coverage         9.84         11.47         11.46         5.43         5.94				0	0	_	0
60     Total Expenses     9,912,000     29,071,000     12,227,000     13,218,000     13,694,000       61     Revenues Less Expenses     (197,000)     (454,000)     (567,000)     (524,000)     (308,000)       62     Ending Fund Reserves     12,649,000     12,195,000     11,628,000     11,104,000     10,796,000       63     Min Fund Rsrv Target (50% O&M+\$2M)     5,538,500     5,771,500     6,294,000     6,532,000     6,710,500       64     Debt Service Coverage     9.84     11.47     11.46     5.43     5.94		- :		21 260 000	2 271 000		3 605 000
61 Revenues Less Expenses     (197,000)     (454,000)     (567,000)     (524,000)     (308,000)       62 Ending Fund Reserves     12,649,000     12,195,000     11,628,000     11,104,000     10,796,000       63 Min Fund Rsrv Target (50% O&M+52M)     5,538,500     5,771,500     6,294,000     6,532,000     6,710,500       64 Debt Service Coverage     9.84     11.47     11.46     5.43     5.94							
62 Ending Fund Reserves     12,649,000     12,195,000     11,628,000     11,104,000     10,796,000       63 Min Fund Rsrv Target (50% O&M + \$2M)     5,538,500     5,771,500     6,294,000     6,532,000     6,710,500       64 Debt Service Coverage     9.84     11.47     11.46     5.43     5.94							
63 Min Fund Rsrv Target (50% 0&M+\$2M) 5,538,500 5,771,500 6,294,000 6,532,000 6,710,500 64 Debt Service Coverage 9.84 11.47 11.46 5.43 5.94							
64 Debt Service Coverage 9.84 11.47 11.46 5.43 5.94		_					
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Table D4
Joshua Basin Water District
Water System Infrastructure Charges

Draft Example Capital Charge per Meter Size

	Current	% of	Meter	Projected Charges with 5-Year Phase-in								
	Number of	Total	Capacity	July 1	July 1	July 1	July 1	July 1				
	Accounts*	Accts	Ratio	2023	2024	2025	2026	2027				
Funding Target				\$1,000,000	\$2,000,000	\$3,000,000	\$3,500,000	\$3,800,000				
Water System C	apital Improve	ment Char	ges									
Annual Charge												
3/4" & 1"	5,591	99.0%	1.00	\$169	\$337	\$504	\$585	\$633				
1-1/2"	30	0.5%	3.33	565	1,125	1,680	1,952	2,110				
2"	21	0.4%	5.33	903	1,799	2,688	3,123	3,376				
3"	5	0.1%	10.00	1,694	3,374	5,039	5,855	6,330				
Total	5,647	100.0%										
Monthly Equivalent												
3/4" & 1"				\$14	\$28	\$42	\$49	\$53				
1-1/2"				47	94	140	163	176				
2"				75	150	224	260	281				
3"				141	281	420	488	528				

<sup>\*</sup> Includes 4,889 Active Water Service Accounts and 758 Water Service Accounts with Locked Meters

# HISTORICAL RATE INFORMATION



Table 2 Joshua Basin Water District Historical Water Rates

Historical Water Rates														
	Jan-1 2007	Jan-1 2008	Jan-1 2009	Jan-1 2010	Jan-1 2011	Mar-1 2014	Jan-1 2015	Jan-1 2016	Jan-1 2017	Mar-1 2018	Jan-1 2019	Jan-1 2020	Jan-1 2021	Jan-1 2022
Overall Rate Increases	6%	6%	3%	6%	3%	7%	7%	7%	7%	18%	16%	14%	12%	10%
BASIC MONTHLY FEE														
Fixed monthly charge based on meter	size													
Meter Size														
3/4 & 1 inch	\$20.00	\$21.20	\$21.84	\$23.15	\$23.82	\$24.31	\$24.80	\$25.29	\$25.78	\$26.96	\$30.70	\$34.43	\$38.03	\$41.35
1 inch	\$33.30	\$35.30	\$36.36	\$38.55	\$39.70			-	-	-	-	-	-	-
1-1/2 inches	66.60	70.70	72.83	77.20	79.40	81.03	82.67	84.30	85.93	89.87	102.33	114.77	126.77	137.83
2 inches	106.60	113.10	116.50	123.49	127.00	129.65	132.27	134.88	137.49	143.79	163.73	183.63	202.83	220.53
3 inches	213.40	212.00	218.40	231.51	238.20	243.09	248.01	252.90	257.79	269.60	307.00	344.30	380.30	413.50
MONTHLY WATER FLOW CHARGES	5													
Billed based on metered water use, as	measured in	units of one	hundred cu	ıbic feet (\$/h	ncf)									
For 3/4" and 1" Meters														
Tier 1 0 - 5 units	\$1.80	\$1.91	\$1.97	\$2.09	\$2.14	\$2.30	\$2.50	\$2.75	\$3.00	\$3.70	\$4.40	\$5.05	\$5.70	\$6.20
Tier 2 5.01 - 10 units	2.00	2.12	2.19	2.33	2.39	2.60	2.90	3.20	3.50	4.40	5.30	6.15	7.00	7.70
Tier 3 10.01 - 20 units	2.10	2.25	2.32	2.46	2.57	2.90	3.30	3.65	4.00	5.10	6.20	7.25	8.30	9.20
Tier 4 20.01 + units	2.15	2.35	2.42	2.57	2.75	3.20	3.70	4.10	4.50	5.80	7.10	8.35	9.60	10.70
For 1-1/2", 2" and 3" Meters														
Unit rate for all water use	\$2.00	\$2.12	\$2.19	\$2.33	\$2.39	\$2.71	\$3.07	\$3.43	\$3.79	\$4.60	\$5.40	\$6.20	\$7.00	\$7.70
Note: 1 unit = one hundred cubic feet,	or approximi	ately 748 ga	llons.											
PRIVATE FIRE PROTECTION CHARG	ES													
Fixed monthly charge based on size of	service conn	ection												
Service Size														
2 inches	\$10.60	\$11.24	\$11.58	\$12.28	\$12.62	\$13.50	\$11.58	\$12.28	\$12.62	\$14.38	\$16.37	\$18.36	\$20.28	\$22.05
3 inches	21.20	22.47	23.15	24.54	25.25	27.02	23.15	24.54	25.25	26.96	30.69	34.43	38.03	41.34
4 inches	42.40	44.94	46.29	49.07	50.50	54.04	46.29	49.07	50.50	44.94	51.16	57.38	63.38	68.91
6 inches	63.60	67.42	69.45	73.62	75.76	81.06	69.45	73.62	75.76	89.88	102.31	114.75	126.75	137.81
8 inches	95.40	101.12	104.60	110.41	113.62	121.57	104.60	110.41	113.62	143.80	163.70	183.60	202.80	220.50