

# Board Workshop

May 15, 2021



# Board Workshop Items

- ▶ 2020 – 2021 CIP’s Review
- ▶ 2021 – 2022 CIP’s
- ▶ 2021 – 2022 Budget
- ▶ 10–Year CIP Plan
- ▶ Water & Sewer EDU’s
- ▶ Pipeline Construction Challenges



# Capital Improvement Projects

Budget Year 2020 - 2021 Review



# Idyllwild Water District

## Capital Improvement Projects & Timelines

### Fiscal Year 2020 - 2021

No.	Water Projects	Season*	Estimate	Actual
1	Horizontal Well Rehabilitation and Road Repairs	Summer	\$ 45,000	In Process
2	Install Fall Protection (4 Tanks)	Fall	\$ 40,000	Completed
3	Cleaning Inspection Water Storage Tanks	Spring	\$ 22,000	In Process
4	Water Distribution Lines Replacement Projects (3 Streets)	Spring	\$ 6,000	On Hold
5	Spillway Repairs	Fall	\$ 5,000	Completed
6	Strawberry Creek Diversion Line Replacement	Summer/Spring	\$ 25,000	In Process
7	Foster Lake Treatment Plant Electronics Replacement/Upgrade	Fall	\$ 150,000	In Process
8	Water Line Replacement for Horizontal Wells Projects Leak Repairs	Summer	\$ 30,000	In Process
9	Reline Pipeline Elk Street	Spring	\$ 120,000	In Process

No.	Sewer Projects	Season*	Costs	Actual
1	Jetting Trailer	Winter	\$ 46,000	Completed
2	Clarifier Drive Spare Parts	Summer	\$ 16,000	Completed
3	Clean & Video Collection System	Summer/Spring	\$ 35,000	In Process
4	Automatic Switch (Timedelay)	Summer	\$ 15,000	Completed
5	Repair Catwalk at Plant	Summer	\$ 10,000	Completed

\*Seasons:

Summer = June, July, August

Fall = September, October, November

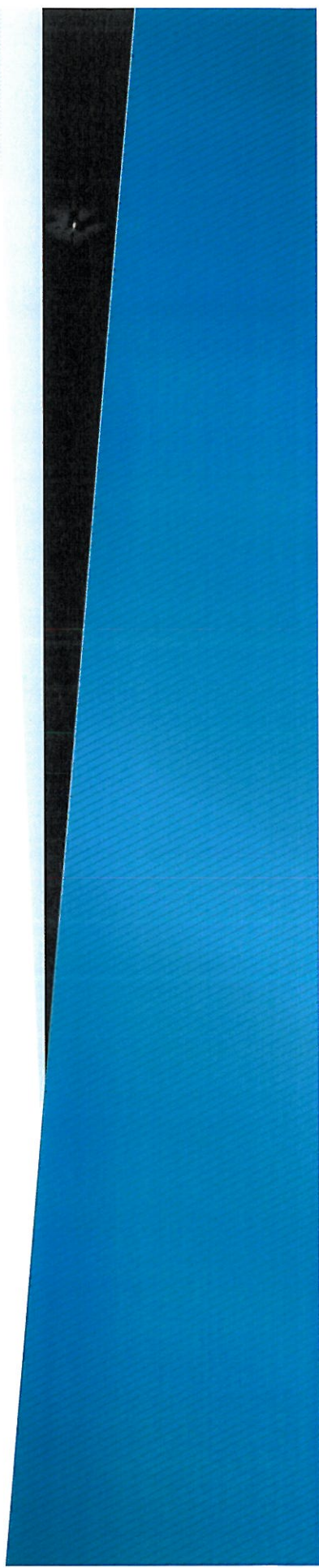
Winter = December, January, February

Spring = March, April, May

In Process
Completed

# Capital Improvement Projects

Budget Year 2021 - 2022



# 2021 - 2022 Budget

- ▶ Review Proposed CIP's
  - Water
  - Wastewater
- ▶ Select CIP's for 2021 - 2022 Budget
  - CIP's not select for 2021 - 2022 Budget will carryover to next year's budget



# CIP Water

## IDYLLWILD WATER DISTRICT CAPITAL EXPENDITURES FOR WATER FUND FOR BUDGET YEAR ENDING JUNE 30, 2022

CAPITAL EXPENDITURE DESCRIPTION		CAPITAL EXPENDITURE FINANCE BY IWD
<b><u>SOURCE OF SUPPLY (G/L # 1321)</u></b>		
1	Horizontal Well Rehabilitation and Road Repair (First Phase)	\$25,000
<b>TOTAL SOURCE OF SUPPLY</b>		<b>\$25,000</b>
<b><u>STORAGE TANKS (G/L # 1324)</u></b>		
2	Recoating Foster Lake Tanks	\$75,000
<b>TOTAL STORAGE TANKS</b>		<b>\$75,000</b>
<b><u>TRANSMISSION AND DISTRIBUTION (G/L # 1324)</u></b>		
3	Fire Hydrant Supplies and Services Line upgrade	\$22,000
4	Install Radio Meters, System Wide	\$300,000
5	Strawberry Creek Diversion Pipeline	\$100,000
<b>TOTAL TRANSMISSION AND DISTRIBUTION</b>		<b>\$422,000</b>
<b><u>WATER TREATMENT PLANT (G/L # 1325)</u></b>		
6	Aeration System Upgrade	\$65,000
7	Booster Pump 15 HP for South Ridge	\$10,000
<b>TOTAL WATER TREATMENT PLANT</b>		<b>\$75,000</b>
<b><u>GENERAL PLANT-STRUCTURES, POWER &amp; OTHER EQUIPMENT</u></b>		
8	Purchase Bobcat Compact	\$60,000
9	Paving the Lake area to the Shop and the Main Office	\$98,000
10	Office Construction (75% portion)	\$50,000
11	Silt Removal from Foster Lake	\$80,000
12	Upgrade the Server for IWD (75% portion)	\$20,000
<b>GENERAL PLANT-POWER &amp; OTHER EQUIPMENT</b>		<b>\$308,000</b>
<b>TOTAL WATER FUND CAPITAL IMPROVEMENT AND EQUIPMENT EXPENDITURES</b>		<b>\$905,000</b>

# CIP

# Sewer

## IDYLLWILD WATER DISTRICT CAPITAL EXPENDITURES FOR SEWER FUND FOR BUDGET YEAR ENDING JUNE 30, 2022

CAPITAL EXPENDITURE DISCRPTION	CAPITAL EXPENDITURE FINANCE BY IWD
<b>WASTEWATER TREATMENT PLANT (G/L # 1316):</b>	
1 Upgrade Electrical Panel/Motor Control Centers	\$45,000
2 Annox Mixer	\$6,500
<b>TOTAL WASTEWATER TREATMENT PLANT</b>	<b>\$51,500</b>
<b>SUB-SURFACE LINES (G/L # 1315)</b>	
3 Replace underground line from the Blower to the Plant	\$40,000
4 Install Valve Clean out Below the RAS Pump	\$8,000
<b>TOTAL SUB-SURFACE LINES</b>	<b>\$48,000</b>
<b>GENERAL PLANT-STRUCTURES, POWER &amp; OTHER EQUIPMENT</b>	
5 Purchase Forklift	\$38,000
6 Material for Painting and upgrade for Metal Structure	\$10,000
7 Office Construction (25% portion )	\$12,500
8 Upgrade the Server for IWD (25% portion)	\$5,000
<b>GENERAL PLANT-POWER &amp; OTHER EQUIPMENT</b>	<b>\$65,500</b>
<b>TOTAL SEWER FUND CAPITAL IMPROVEMENT AND EQUIPMENT EXPENDITURES</b>	<b>\$165,000</b>



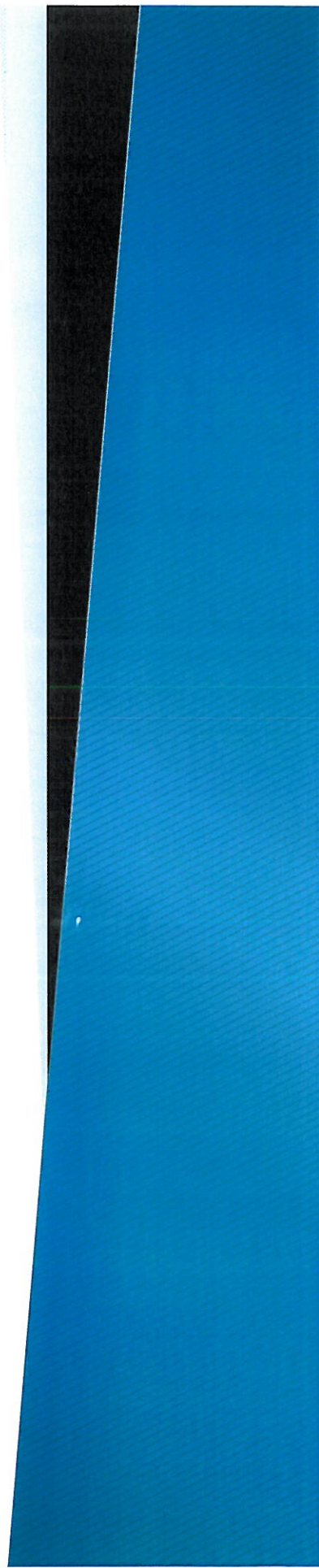


# Comments – CIP's

- ▶ **Water**
  - 2021 – 2022 Priorities
  - Carryover to 2022 – 2023 CIP's
- ▶ **Wastewater Priorities**
  - 2021 – 2022 Priorities
  - Carryover to 2022 – 2023 CIP's



# 2021 - 2022 Budget



# 2021 - 2022 Budget Overview

▶ Total Budget	
◦ Revenues =	\$2,790,456
◦ Expenses =	\$2,209,928
◦ Proposed CIP's =	\$1,080,000
▶ Water	
◦ Revenues =	\$1,927,071
◦ Expenses =	\$1,608,619
◦ Proposed CIP's =	\$ 920,000
▶ Wastewater	
◦ Revenues =	\$ 863,385
◦ Expenses =	\$ 601,309
◦ Proposed CIP's =	\$ 160,000



# Budget for Revenues & Expenses Fiscal Year 2021-2022

Category	Operating Services		Total
	Water	Sewer	
<b>Operating Revenue</b>			
Water-Base Rate Commercial	\$222,528		\$222,528
Water-Base Rate Residential	\$650,273		\$650,273
Water Sales Commercial	\$240,000		\$240,000
Water Sales Residential	\$383,000		\$383,000
Sewer Base Fees Commercial		\$482,547	\$482,547
Sewer Base Fees Residential		\$231,899	\$231,899
Other Fees and Charge	\$14,070	\$350	\$14,420
<b>Total Operating Revenue</b>	<b>\$1,509,871</b>	<b>\$714,796</b>	<b>\$2,224,667</b>
<b>Non-Operating Revenue</b>			
Property Taxes Assessments	\$322,000	\$133,200	\$455,200
Standby Charges Assessments	\$9,000	\$4,089	\$13,089
Interest income	\$85,000	\$11,300	\$96,300
Other Non-Operating	\$1,200	\$0	\$1,200
<b>Total Non-Operating Revenue</b>	<b>\$417,200</b>	<b>\$148,589</b>	<b>\$565,789</b>
<b>Total Revenues</b>	<b>\$1,927,071</b>	<b>\$863,385</b>	<b>\$2,790,456</b>
<b>Operating Expense</b>			
Water Operations Expenses	\$1,548,619		\$1,548,619
Sewer Operations Expenses		\$459,538	\$459,538
<b>Total Operating Expense</b>	<b>\$1,548,619</b>	<b>\$459,538</b>	<b>\$2,008,157</b>
<b>Non-Operating Expense</b>			
Loan Interest Expense	\$0	\$0	\$0
Miscellaneous Expense	\$0	\$0	\$0
<b>Total Non-Operating Expense</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
<b>Other Commitments</b>			
OPEB			
	\$60,000	\$20,000	\$80,000
<b>Total Other Commitments</b>	<b>\$60,000</b>	<b>\$20,000</b>	<b>\$80,000</b>
<b>Total Expenses</b>	<b>\$1,608,619</b>	<b>\$479,538</b>	<b>\$2,088,157</b>
<b>Net Operating Margin</b>	<b>\$318,452</b>	<b>\$383,847</b>	<b>\$702,299</b>
<b>Capital Commitments</b>			
Capital Improvements and Equipment By IWD	\$920,000	\$165,000	\$1,085,000
<b>Total Capital Commitments</b>	<b>\$920,000</b>	<b>\$165,000</b>	<b>\$1,085,000</b>
<b>Net Fund Contribution/(Deficit)</b>	<b>-\$601,548</b>	<b>\$218,847</b>	<b>-\$382,701</b>
Beginning Reserve Fund Balance			\$3,000,000
Projected Ending Reserve Fund Balance			\$2,617,299

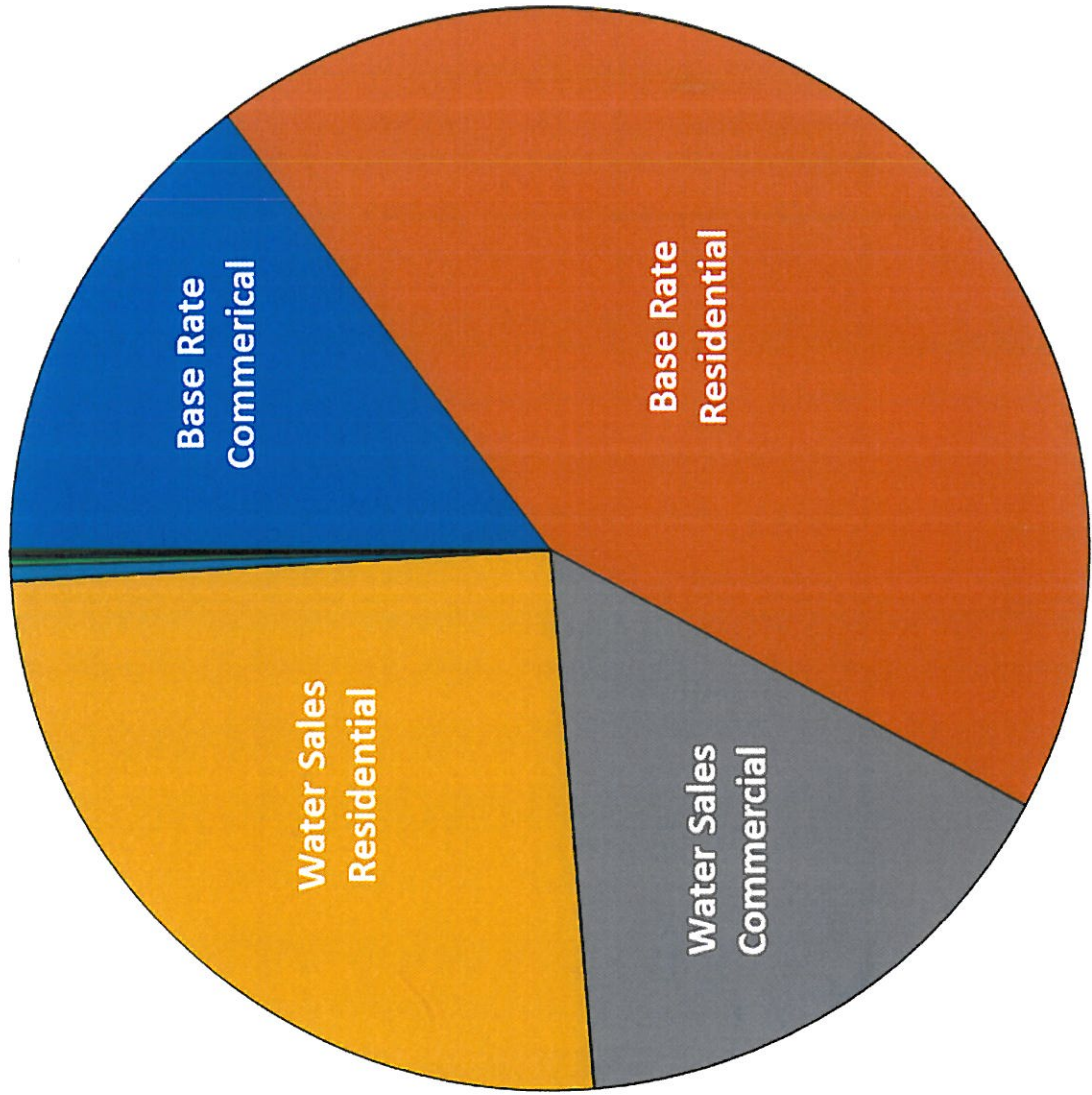
\*The Net Deficit will be cover from the Reserve

IDYLLWILD WATER DISTRICT  
WATER FUND INCOME STATEMENT  
YEAR ENDING JUNE 30, 2022

# Water Fund Income Statement Year Ending June 30, 2022

	2019/2020 Last Year Actual	2020/2021 Current Year Projected	2021/2022 Future Year Budgeted	
<b>Income</b>				
4201 - Water Base Rate-Commercial	101,831	195,830	222,528	13.63%
4202 - Water Base Rate-Residential	568,592	573,926	650,273	13.30%
4203 - Water Sales-Commercial	313,136	225,000	240,000	6.87%
4204 - Water Sales-Residential	391,450	373,109	383,000	2.65%
4205 - Water Sales-Construction	9,528	6,020	6,920	14.95%
4206 - Water Sales-Other	1,674	2,555	3,000	17.42%
4208 - Water Transfer Fees	1,043	1,000	1,200	20.00%
4209 - Water Turn Off Fees	250	200	250	25.00%
4210 - Water Will Serve Letter Fees	350	450	450	0.00%
4212 - Water Installation Fees	1,000	500	1,000	100.00%
4213 - Water Lien Fees	100	160	200	25.00%
4214 - Water Other Fees & Charges	150	900	1,050	16.67%
<b>Total Income</b>	<b>\$ 1,389,106</b>	<b>\$ 1,379,650</b>	<b>\$ 1,509,871</b>	<b>9.44%</b>
<b>5400 - WATER OPERATING EXPENSES</b>				
5436 - Payroll and Wages	685,000	685,000	710,124	-3.54%
5403 - Engineering Services	7,065	6,997	12,000	-41.69%
5404 - Legal Services	117,250	56,323	75,000	24.90%
5405 - State-County Water System Fees	36,370	38,500	43,020	-10.51%
5406 - General Plant Expense	105,514	72,150	98,000	-26.88%
5407 - Minor Equipment/ Parts	320	380	500	-24.00%
5408 - Vehicle Repairs & Maint.	8,820	8,297	8,000	3.71%
5410 - Utilities-Electricity	67,484	92,050	85,000	8.29%
5411 - Utilities-Gas & Fuel	5,928	4,852	6,500	-25.35%
5412 - Utilities-Propane	5,980	6,250	6,000	4.17%
5414 - Telephone & Internet	10,130	11,325	11,500	-1.52%
5415 - Retirement and Life Insur	57,800	59,620	63,000	-5.37%
5417 - Water Computer Services	14,860	1,680	19,250	-91.27%
5418 - Water Board Reimbursement	1,950	2,000	2,050	-2.44%
5419 - Water Other Operating Expenses	3,700	3,850	3,820	-1.79%
5420 - Accounting & Auditing	9,650	14,620	18,320	-20.20%
5421 - Postage & Postage Fee	9,870	9,970	10,250	-2.73%
5422 - Office Supplies	25,808	19,650	21,340	-7.92%
5423 - Traveling and Mileages	3,400	3,620	3,750	-3.47%
5025 - Office Cleaning Services	2,400	2,400	2,600	-7.69%
5425 - Equipment Maintenance	3,520	3,680	4,000	-8.00%
5426 - Medical Insurance	132,000	142,000	146,000	-2.74%
5427 - Worker's Compensation Ins	6,250	6,850	7,500	-8.67%
5428 - Retiree Health Insurance	28,500	32,800	34,400	-5.23%
5429 - Dues, Fees, Subscription	26,797	26,900	27,200	-1.10%
5430 - Advertising & Publishing	9,135	12,200	13,300	-8.27%
5431 - Leasing Equipment	250	350	375	-6.67%
5432 - Utilities - Trash Fee	2,240	2,600	2,800	-7.14%
5433 - Bank Fee Charge	2,600	3,200	3,400	-5.88%
5435 - Auto & General Insurance	35,000	36,000	38,000	-5.26%
5438 - Laboratory Services	37,000	41,000	43,000	-4.65%
5440 - Compensated Time	12,500	14,000	14,800	-5.41%
5441 - Uniform Expenses	3,000	3,500	3,800	-7.89%
5442 - Property Tax Expenses	520	600	620	-3.23%
5445 - Water Security System (ADT)	2,600	2,800	2,900	-3.45%
5446 - Training and Seminars	5,100	5,600	6,400	-12.50%
5600 - Water Depreciation	249,704	253,000	257,000	-1.56%
<b>Total - WATER OPERATING EXPENSES</b>	<b>\$ 1,734,015</b>	<b>\$ 1,686,414</b>	<b>\$ 1,805,619</b>	
<b>Net Ordinary Income</b>	<b>\$ (344,909)</b>	<b>\$ (306,764)</b>	<b>\$ (295,748)</b>	
<b>Other Income/Expense</b>				
Other Income				
4901 - Water Taxes & Assessments	305,400	320,000	322,000	0.62%
4903 - Water Stand By Assessments	17,993	13,500	9,000	-50.00%
4904 - Water Interest Earned	21,000	21,000	8,500	-147.06%
4919 - Water Other Non-Operating Rev	92,000	2,000	1,200	-86.67%
<b>Total Other Income</b>	<b>\$ 436,393</b>	<b>\$ 356,500</b>	<b>\$ 340,700</b>	
<b>Net Income</b>	<b>\$ 91,484</b>	<b>\$ 49,736</b>	<b>\$ 44,952</b>	

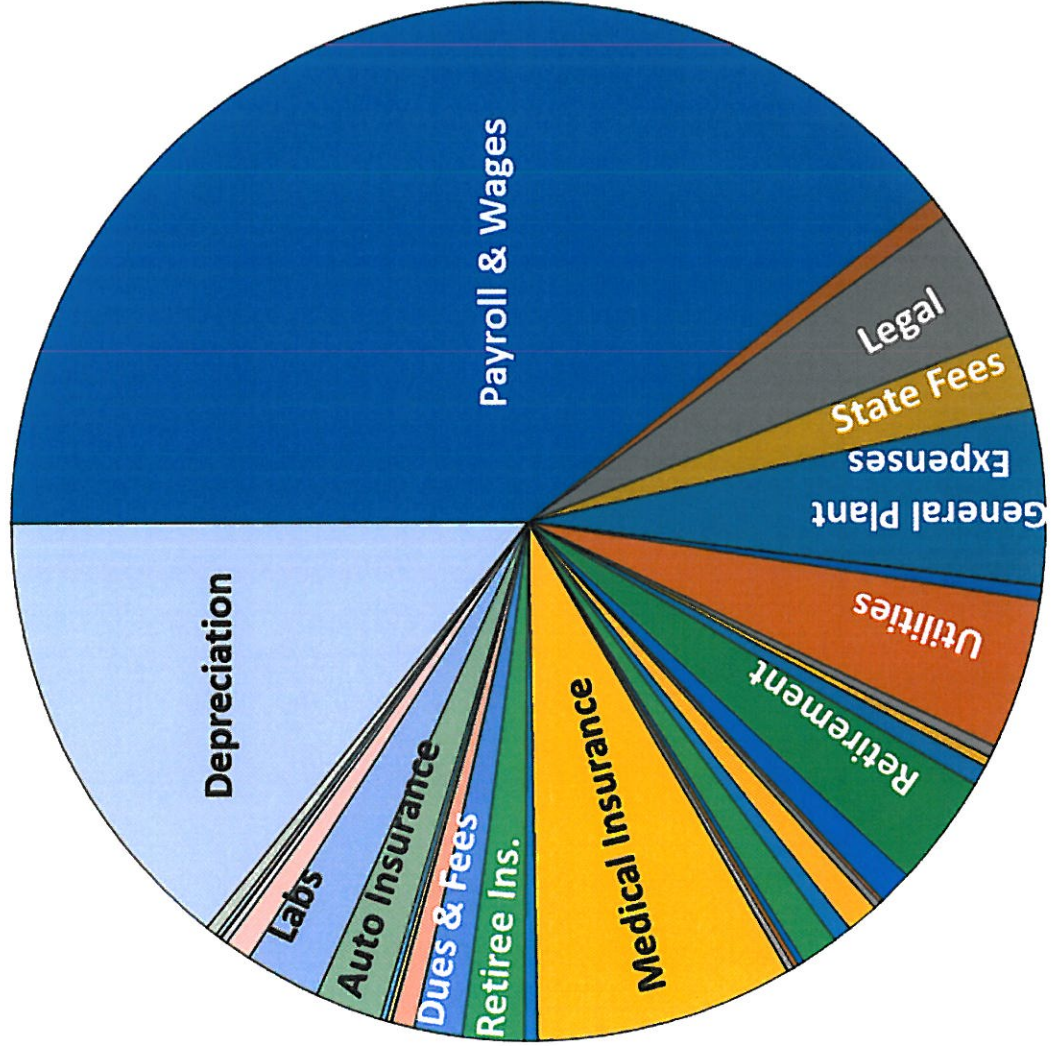
# WATER INCOME 2021 - 2022 BUDGET



- 4201 · Water Base Rate-Commercial
- 4202 · Water Base Rate-Residential
- 4203 · Water Sales-Commercial
- 4204 · Water Sales-Residential
- 4205 · Water Sales-Construction
- 4206 · Water Sales-Other
- 4208 · Water Transfer Fees
- 4209 · Water Turn On/Off Fees
- 4210 · Water Will Serve Letter Fees
- 4212 · Water Installation Fees
- 4213 · Water Lien Fees
- 4214 · Water Other Fees & Charges

# WATER OPERATING EXPENSES 2021 - 2022 BUDGET

- 5436 · Payroll and Wages
- 5403 · Engineering Services
- 5404 · Legal Services
- 5405 · State-County Water System Fees
- 5406 · General Plant Expense
- 5407 · Minor Equipment/ Parts
- 5408 · Vehicle Repairs & Maint.
- 5410 · Utilities-Electricity
- 5411 · Utilities-Gas & Fuel
- 5412 · Utilities-Propane
- 5414 · Telephone & Internet
- 5415 · Retirement and Life insur
- 5417 · Water Computer Services
- 5418 · Water Board Reimbursement
- 5419 · Water Other Operating Expenses
- 5420 · Accounting & Auditing
- 5421 · Postage & Postage Fee
- 5422 · Office Supplies
- 5423 · Traveling and Mileages
- 5025 · Office Cleaning Services



# Water Fund

# Income Statement

# Year Ending June 30, 2022

**IDYLLWILD WATER DISTRICT  
SEWER FUND INCOME STATEMENT  
YEAR ENDING June 30, 2022**

	<b>FY 19/20 Last Year Actual</b>	<b>FY 20/21 Current Year Projected</b>	<b>FY 21/22 Future Year Budgeted</b>	
<b>Income</b>				
4101 · Sewer Base Fees-Commercial	427,083	470,983	482,547	2.46%
4102 · Sewer Base Fees-Residential	225,667	226,250	231,899	2.50%
4108 · Sewer Transfer Fees	25	200	240	20.00%
4109 · Sewer Other Fees, Refunds	-	100	110	10.00%
<b>Total Income</b>	<b>\$ 652,775</b>	<b>\$ 697,533</b>	<b>\$ 714,796</b>	
<b>6400 · SEWER OPERATING EXPENSES</b>				
6400 · Payroll	149,500	152,300	162,300	-6.16%
6404 · Retirement and Life Ins	12,000	13,560	14,200	-4.51%
6405 · Treatment Fees	4,400	5,231	5,400	-3.13%
5005 · Uniforms Expense	720	780	820	-4.88%
5008 · Board of Directors Reimbursement	620	640	660	-3.03%
6406 · General Plant Expense	29,365	33,490	48,500	-30.95%
6408 · Vehicle Repairs & Maint.	2,067	2,677	2,750	-2.65%
6410 · Utilities-Electricity	245,200	26,890	28,250	-4.81%
6411 · Utilities-Gas & Fuel	2,200	3,800	3,950	-3.80%
6413 · Sewer Utilities-Telephone	2,840	3,250	3,500	-7.14%
6415 · Legal Services	38,026	18,600	19,500	-4.62%
6417 · Computer Services	5,215	5,798	6,017	-3.64%
6419 · Cleaning Line Expenses	105,418	840	860	-2.33%
6420 · Accounting & Audit Service	2,494	4,314	6,500	-33.63%
6421 · Postage & Mail Fee	2,703	2,657	2,736	-2.91%
6422 · Office Supplies	2,200	2,126	2,190	-2.91%
6423 · Medical Insurance	48,891	46,215	49,500	-6.64%
6426 · Worker's Comp Insurance	781	1,043	1,074	-2.91%
6428 · Retiree Health Insurance	8,845	12,062	13,200	-8.62%
6429 · Dues, Fees & Subscription	9,025	10,255	11,300	-9.25%
6430 · Advertising & Publishing	620	752	820	-8.34%
6431 · Sewer Maintenance	2,390	3,350	3,600	-6.94%
6432 · Utilities - Trash Fee	795	800	860	-6.98%
6433 · Bank Fee Charge	120	140	160	-12.50%
6435 · Auto & General Insurance	7,734	9,200	9,800	-6.12%
6438 · Laboratory Service	18,634	19,950	21,500	-7.21%
6441 · Removal Disposal Fee	4,560	5,620	5,850	-3.93%
6443 · Consulting & Engineering	1,358	2,900	2,950	-1.69%
6444 · Traveling and Entertainment	500	750	790	-5.06%
6448 · Training & Seminar Expenses	4,500	6,000	6,500	-7.69%
6445 · Security System	380	500	540	-7.41%
5099 · OPEB Obligation Expense	22,292	22,292	22,961	-2.91%
6500 · Sewer Depreciation	121,794	125,620	127,860	-1.75%
<b>Total · SEWER OPERATING EXPENSES</b>	<b>\$ 858,387</b>	<b>\$ 544,401</b>	<b>\$ 587,398</b>	

**Net Ordinary Income**  
\$ (205,612) \$ 153,132 \$ 127,398

**Other Income/Expense**

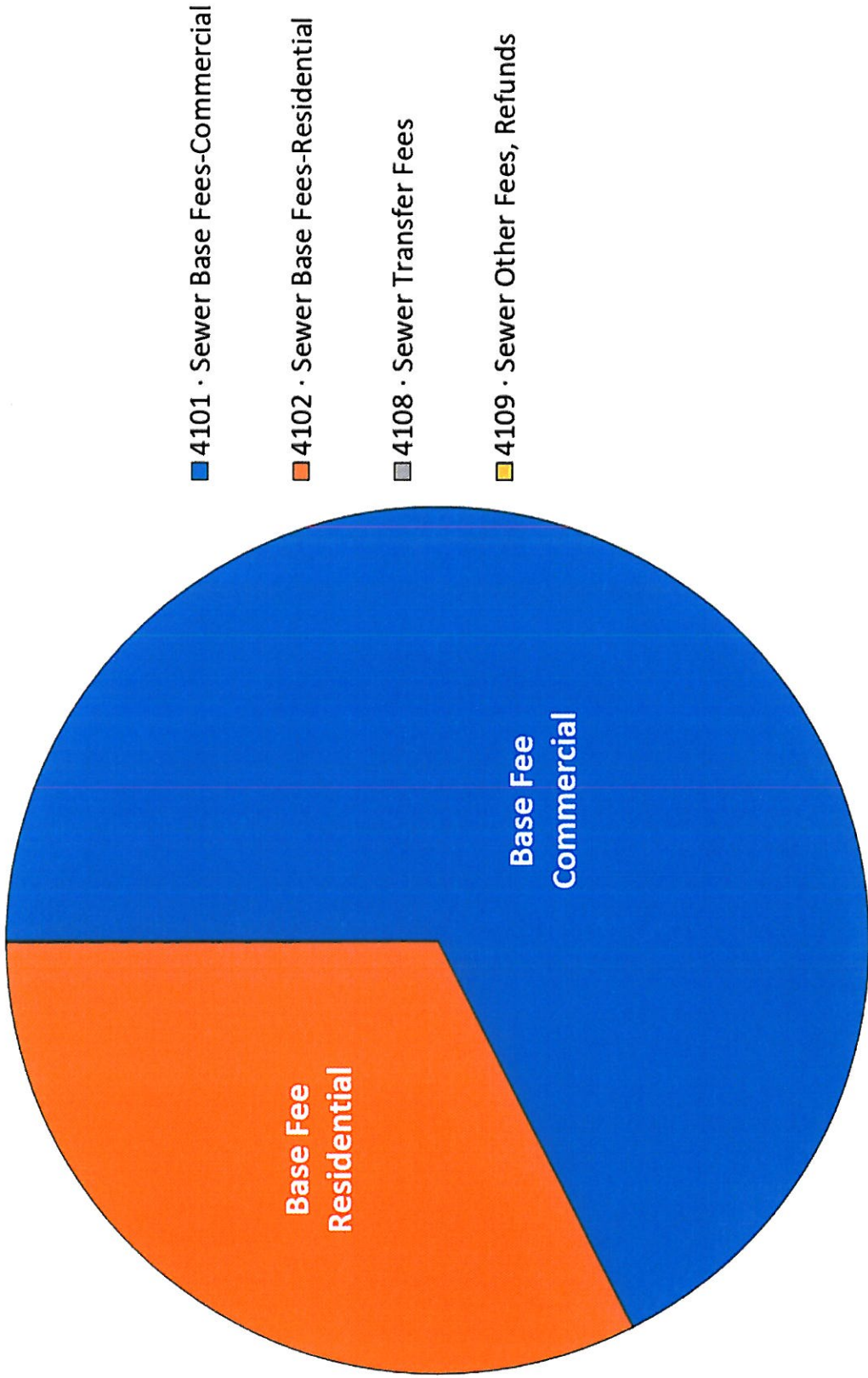
Other Income			
4801 · Sewer Taxes & Assessments	128,454	132,200	133,200
4803 · Sewer Stand By Assessments	4,947	4,123	4,089
4804 · Sewer Interest Earned	27,100	12,200	11,300
4805 · Sewer Facilities Charges	-	-	-
4819 · Sewer Other Non-Operating Rev	-	-	-
<b>Total Other Income</b>	<b>\$ 160,501</b>	<b>\$ 148,523</b>	<b>\$ 148,589</b>

**Net Income**

\$ (45,111) \$ 301,655 \$ 275,987

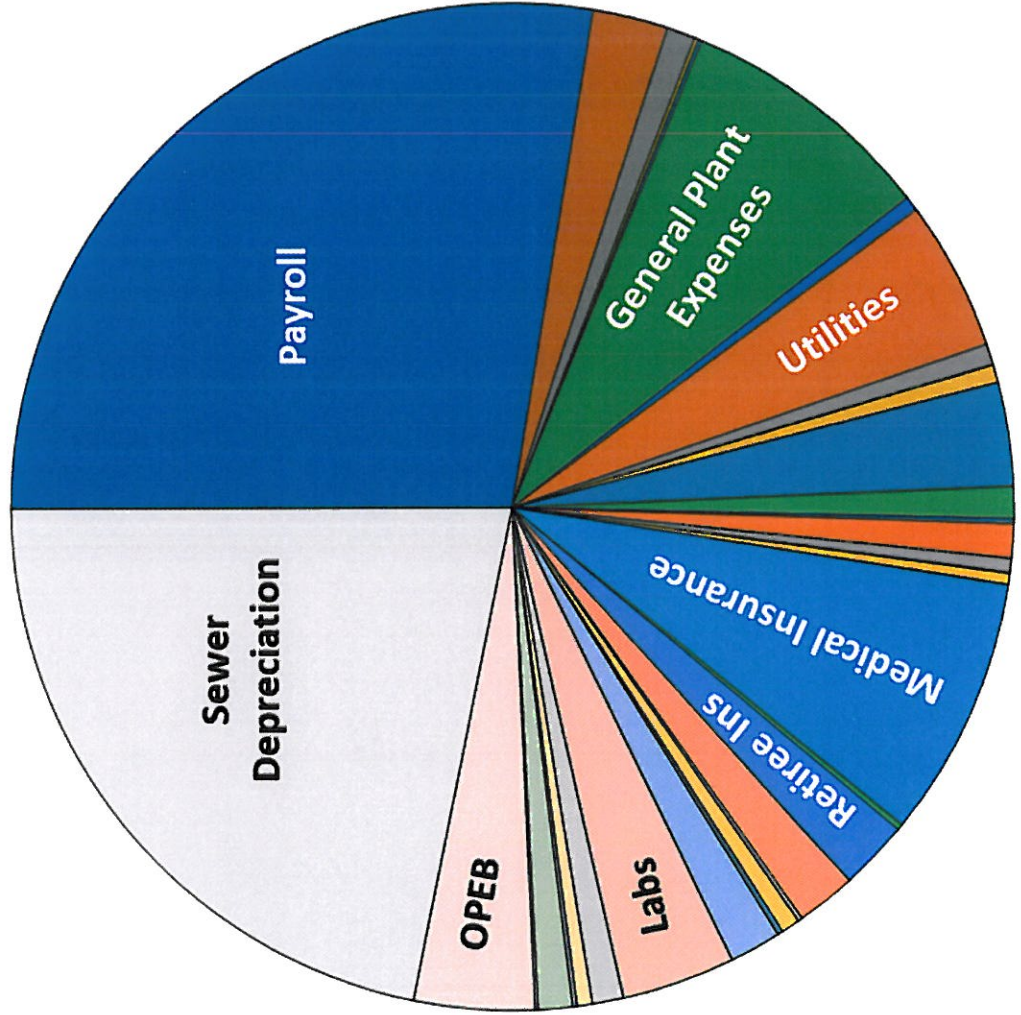


# SEWER INCOME 2021 - 2022 BUDGET



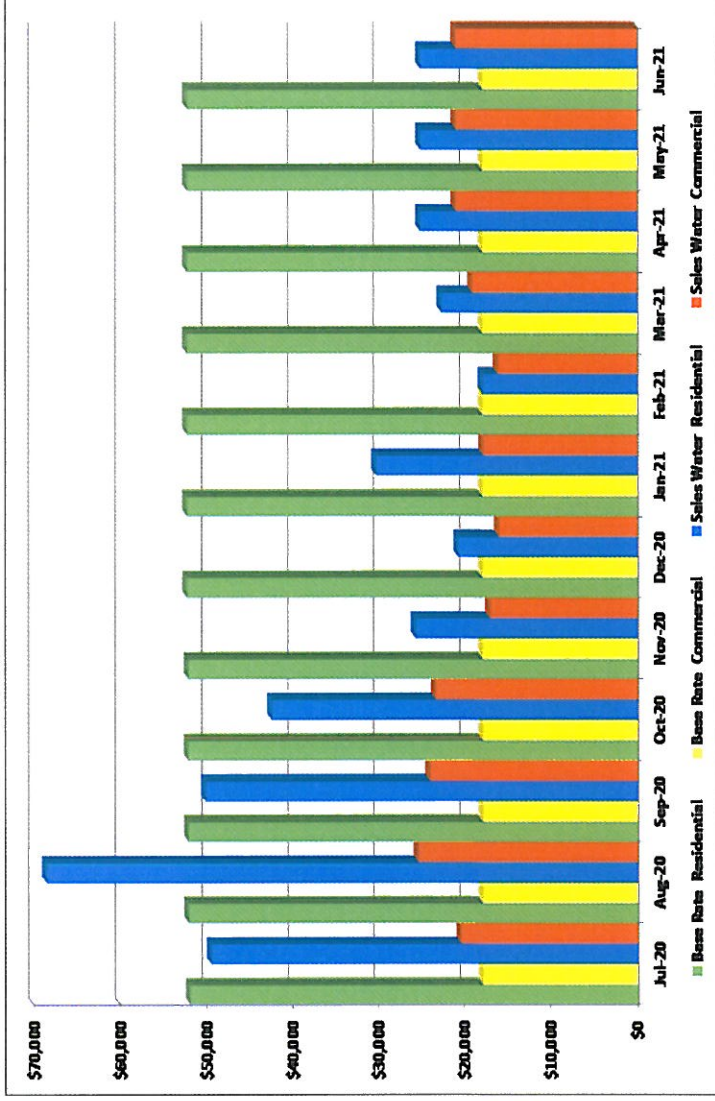
# SEWER OPERATING EXPENSES 2021 - 2022 BUDGET

- 6400 · Payroll
- 6404 · Retirement and Life Ins
- 6405 · Treatment Fees
- 5005 · Uniforms Expense
- 5008 · Board of Directors Reimbursement
- 6406 · General Plant Expense
- 6408 · Vehicle Repairs & Maint.
- 6410 · Utilities-Electricity
- 6411 · Utilities-Gas & Fuel
- 6413 · Sewer Utilities-Telephone
- 6415 · Legal Services
- 6417 · Computer Services
- 6419 · Cleaning Line Expenses
- 6420 · Accounting & Audit Service
- 6421 · Postage & Mail Fee
- 6422 · Office Supplies
- 6423 · Medical Insurance
- 6426 · Worker's Comp Insurance
- 6428 · Retiree Health Insurance
- 6429 · Dues, Fees & Subscription
- 6430 · Advertising & Publishing
- 6431 · Sewer Maintenance
- 6432 · Utilities - Trash Fee
- 6433 · Bank Fee Charge
- 6435 · Auto & General Insurance
- 6438 · Laboratory Service
- 6441 · Removal Disposal Fee
- 6443 · Consulting & Engineering
- 6444 · Traveling and Entertainment
- 6448 · Training & Seminar Expenses
- 6445 · Security System
- 5099 · OPEB Obligation Expense
- 6500 · Sewer Depreciation



# Water Billing Analysis

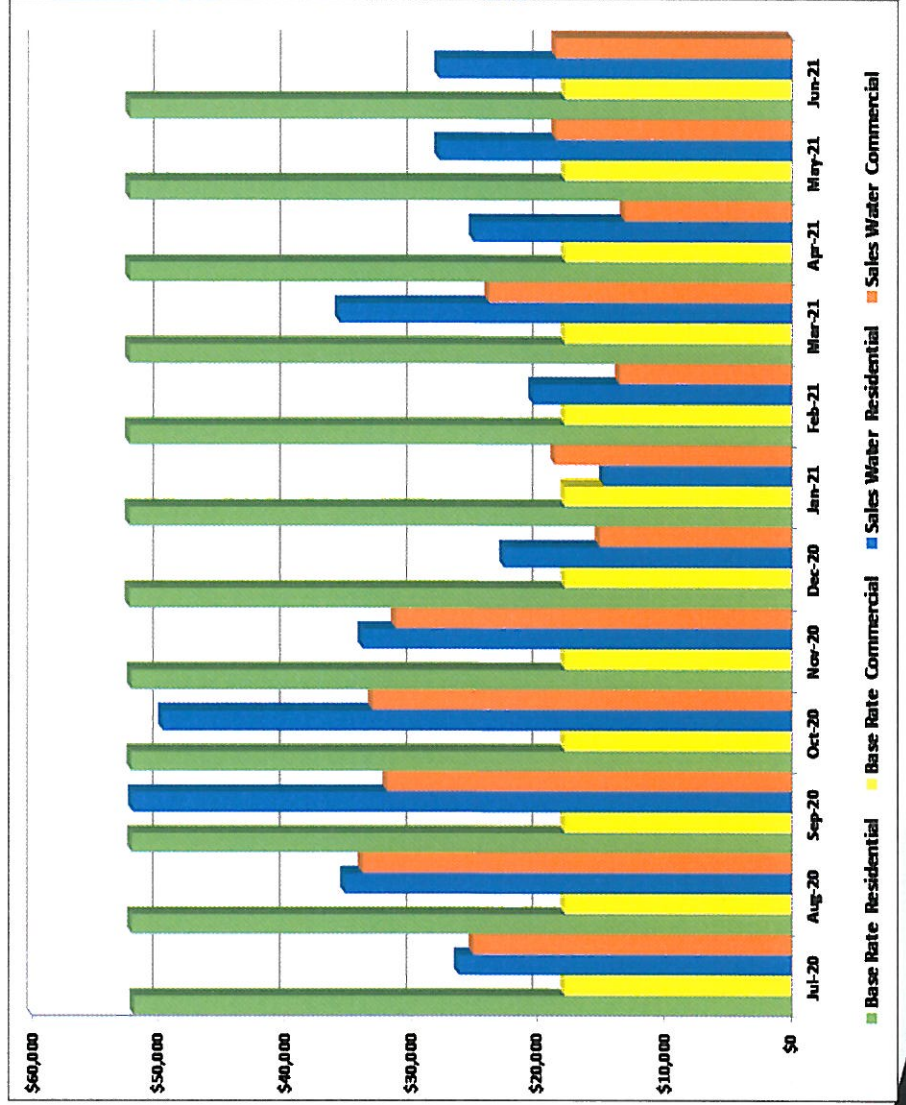
Water Monthly Billing Analysis 2020-2021						
Month	Base Rate Residential	Base Rate Commercial	Sales Water Residential	Sales Water Commercial	Total Water	Total Billing
Jul-20	\$51,879	\$17,825	\$49,469	\$20,455	\$139,628	\$140,543
Aug-20	\$52,076	\$17,825	\$68,491	\$25,386	\$163,778	\$163,978
Sep-20	\$52,076	\$17,825	\$50,115	\$24,055	\$144,071	\$144,371
Oct-20	\$52,124	\$17,825	\$42,482	\$23,365	\$135,796	\$136,216
Nov-20	\$52,124	\$17,825	\$25,677	\$17,011	\$112,637	\$113,137
Dec-20	\$52,287	\$17,825	\$20,762	\$15,984	\$106,858	\$107,093
Jan-21	\$52,287	\$17,825	\$30,752	\$17,754	\$118,118	\$118,513
Feb-21	\$52,287	\$17,825	\$17,806	\$16,110	\$104,028	\$104,441
Mar-21	\$52,287	\$17,825	\$22,684	\$19,072	\$111,868	\$112,019
Apr-21	\$52,287	\$17,825	\$25,122	\$21,032	\$116,266	\$116,516
May-21	\$52,287	\$17,825	\$25,122	\$21,032	\$116,266	\$116,516
Jun-21	\$52,287	\$17,825	\$25,122	\$21,032	\$116,266	\$116,516
<b>Total:</b>	<b>\$626,288</b>	<b>\$213,900</b>	<b>\$403,104</b>	<b>\$242,288</b>	<b>\$1,485,580</b>	<b>\$1,489,859</b>



Explanation	R1	R2	R3	R4	R5	R6	R5	R6	IAA	Total Customers
Residential	1,433	12	40	0	0	0	0	0	0	1,485
Commercial	105	18	36	14	8	1	1	1	1	183
<b>Total</b>	<b>1,538</b>	<b>30</b>	<b>76</b>	<b>14</b>	<b>8</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1,668</b>

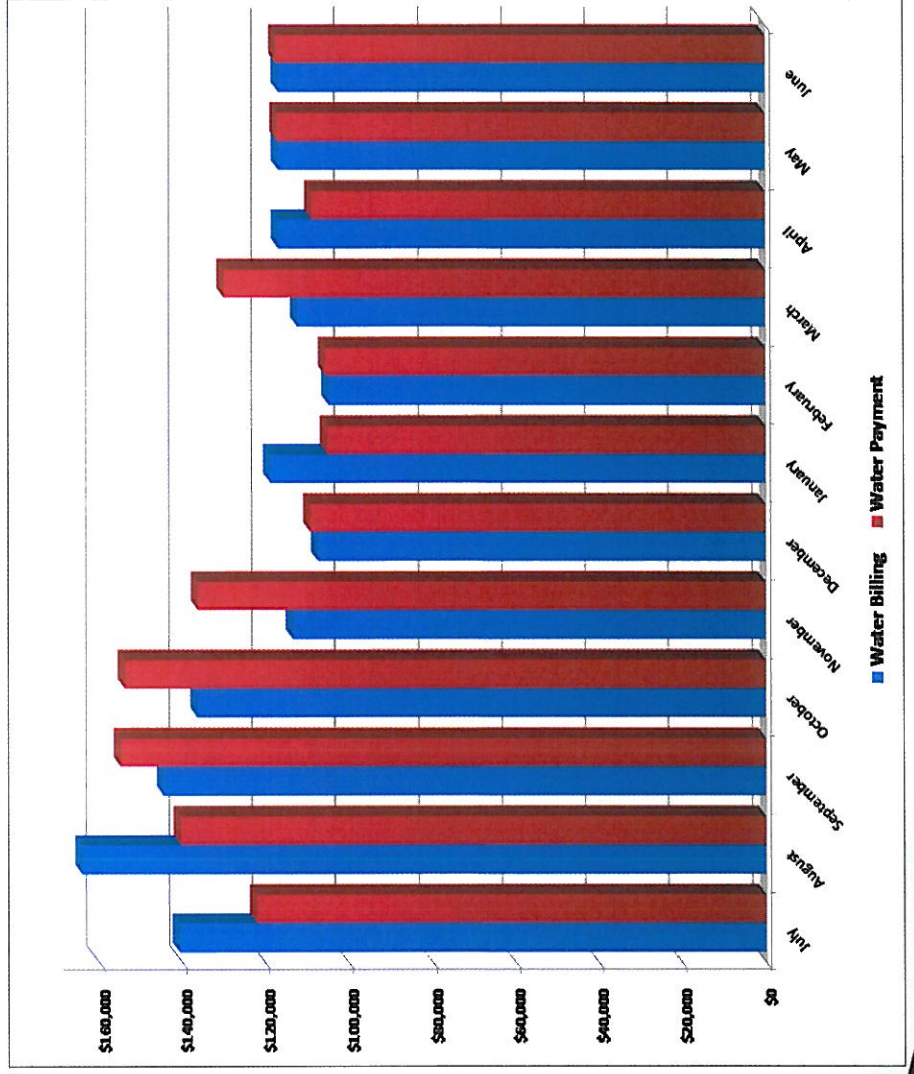
# Water Payment Analysis

Water Monthly Payment Analysis 2020-2021						
Month	Base Rate Residential	Base Rate Commercial	Sales Water Residential	Sales Water Commercial	Total Water	Total Payments
Jul-20	\$51,879	\$17,825	\$26,251	\$25,057	\$121,012	\$121,942
Aug-20	\$52,076	\$17,825	\$35,260	\$33,860	\$139,021	\$140,281
Sep-20	\$52,076	\$17,825	\$52,000	\$31,910	\$153,811	\$154,789
Oct-20	\$52,124	\$17,825	\$49,606	\$33,070	\$152,625	\$153,773
Nov-20	\$52,124	\$17,825	\$33,869	\$31,260	\$135,078	\$136,095
Dec-20	\$52,287	\$17,825	\$22,652	\$15,101	\$107,865	\$108,953
Jan-21	\$52,287	\$17,825	\$14,774	\$18,609	\$108,495	\$104,815
Feb-21	\$52,287	\$17,825	\$20,350	\$13,568	\$104,080	\$105,275
Mar-21	\$52,287	\$17,825	\$35,712	\$23,808	\$129,632	\$129,732
Apr-21	\$52,287	\$17,825	\$25,073	\$13,177	\$108,362	\$108,562
May-21	\$52,287	\$17,825	\$27,832	\$18,555	\$116,499	\$116,899
Jun-21	\$52,287	\$17,825	\$27,832	\$18,555	\$116,499	\$117,235
<b>Total:</b>	<b>\$626,288</b>	<b>\$213,900</b>	<b>\$371,211</b>	<b>\$276,530</b>	<b>\$1,487,929</b>	<b>\$1,498,350</b>



# Water Billing Vs. Payment

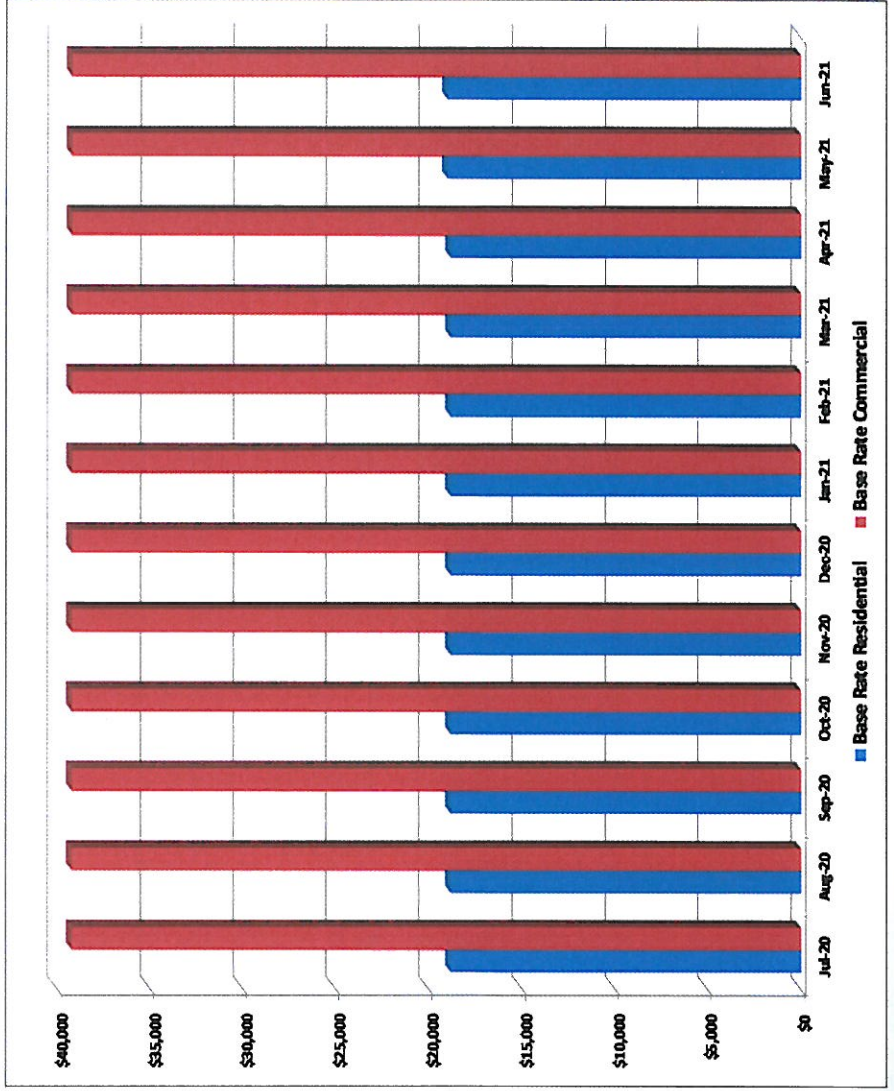
Water Billing vs. Payment 2020/2021			
Month	Billing	Payment	Outstanding Balance
July	\$140,543	\$121,942	(\$18,601)
August	\$163,978	\$140,281	(\$23,697)
September	\$144,371	\$154,789	\$10,418
October	\$136,216	\$153,779	\$17,557
November	\$113,137	\$136,005	\$22,958
December	\$107,003	\$108,953	\$1,860
January	\$118,513	\$104,815	(\$13,698)
February	\$109,441	\$105,275	\$864
March	\$112,019	\$129,732	\$17,713
April	\$116,516	\$108,562	(\$7,954)
May	\$116,516	\$116,899	\$83
June	\$116,516	\$117,235	\$719
<b>TOTAL:</b>	<b>\$1,489,859</b>	<b>\$1,498,351</b>	<b>\$8,492</b>



# Sewer Billing Analysis

**Sewer Monthly Billing Analysis: 2020/2021**

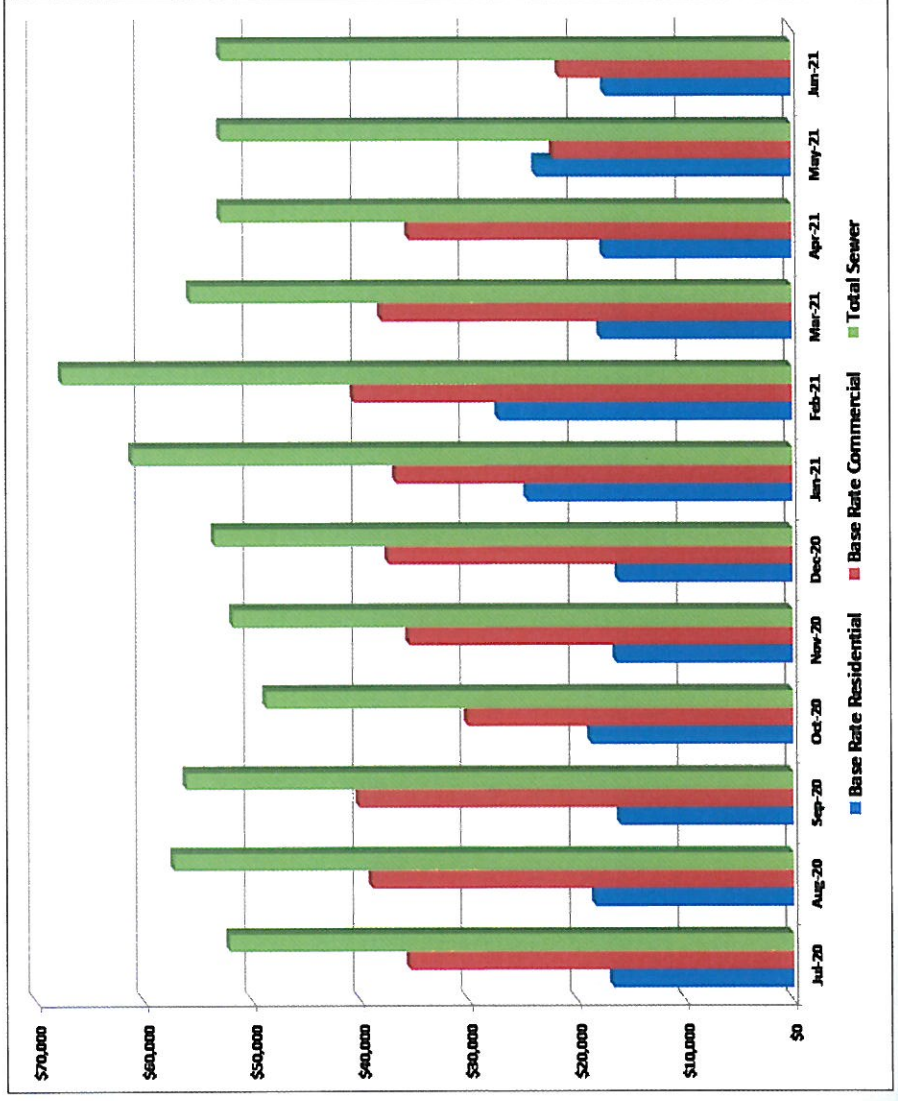
Month	Base Rate Residential	Base Rate Commercial	Total Sewer	Other Revenue	Total Billing
Jul-20	\$18,888	\$39,241	\$58,079	\$25	\$58,104
Aug-20	\$18,888	\$39,241	\$58,079	\$25	\$58,104
Sep-20	\$18,888	\$39,241	\$58,079	\$25	\$58,104
Oct-20	\$18,888	\$39,241	\$58,079	\$25	\$58,104
Nov-20	\$18,888	\$39,241	\$58,079	\$25	\$58,104
Dec-20	\$18,888	\$39,241	\$58,079	\$25	\$58,104
Jan-21	\$18,888	\$39,241	\$58,079	\$25	\$58,104
Feb-21	\$18,888	\$39,241	\$58,079	\$25	\$58,104
Mar-21	\$18,888	\$39,241	\$58,079	\$25	\$58,104
Apr-21	\$18,888	\$39,241	\$58,079	\$25	\$58,104
May-21	\$19,006	\$39,241	\$58,247	\$25	\$58,272
Jun-21	\$19,006	\$39,241	\$58,247	\$25	\$58,272
<b>Total:</b>	<b>\$226,392</b>	<b>\$470,892</b>	<b>\$697,284</b>	<b>\$300</b>	<b>\$697,584</b>



# Sewer Payment Analysis

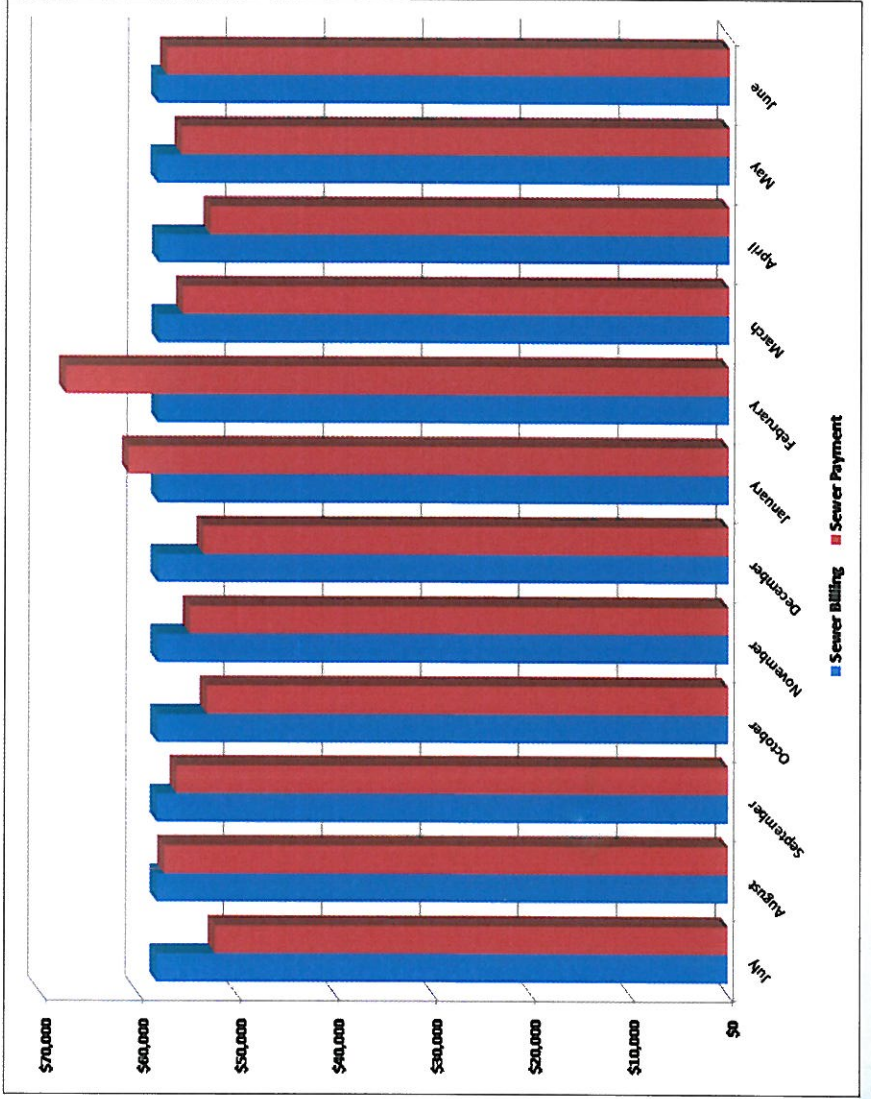
**Sewer Monthly Payment Analysis: 2020/2021**

Month	Base Rate Residential	Base Rate Commercial	Total Sewer	Other Revenue	Total Payments
Jul-20	\$16,665	\$35,415	\$52,080	\$50	\$52,130
Aug-20	\$18,312	\$38,910	\$57,222	\$125	\$57,347
Sep-20	\$15,977	\$40,100	\$56,077	\$25	\$56,102
Oct-20	\$18,665	\$29,993	\$48,658	\$125	\$48,783
Nov-20	\$16,324	\$35,407	\$51,730	\$50	\$51,780
Dec-20	\$16,095	\$37,298	\$53,393	\$0	\$53,393
Jan-21	\$24,386	\$36,580	\$60,966	\$125	\$61,091
Feb-21	\$26,994	\$40,492	\$67,486	\$125	\$67,611
Mar-21	\$17,692	\$37,894	\$55,586	\$25	\$55,611
Apr-21	\$17,388	\$35,357	\$52,744	\$56	\$52,800
May-21	\$23,569	\$21,980	\$52,744	\$100	\$52,844
Jun-21	\$17,241	\$21,445	\$52,744	\$0	\$52,744
<b>Total:</b>	<b>\$229,308</b>	<b>\$410,870</b>	<b>\$661,431</b>	<b>\$806</b>	<b>\$662,237</b>



# Sewer Billing Vs. Payment

Sewer Billing vs. Payment			
2019/2020			
Month	Billing	Payment	Outstanding Balance
July	\$58,104	\$52,130	(\$5,974)
August	\$58,104	\$57,347	(\$7257)
September	\$58,104	\$56,101	(\$2,003)
October	\$58,104	\$53,020	(\$5,084)
November	\$58,104	\$54,780	(\$3,324)
December	\$58,104	\$53,383	(\$4,721)
January	\$58,104	\$61,091	\$2,987
February	\$58,104	\$67,611	\$9,507
March	\$58,104	\$55,611	(\$2,493)
April	\$58,104	\$52,800	(\$5,304)
May	\$58,272	\$55,810	(\$2,462)
June	\$58,272	\$57,350	(\$922)
<b>TOTAL:</b>	<b>\$697,584</b>	<b>\$677,044</b>	<b>(\$20,540)</b>





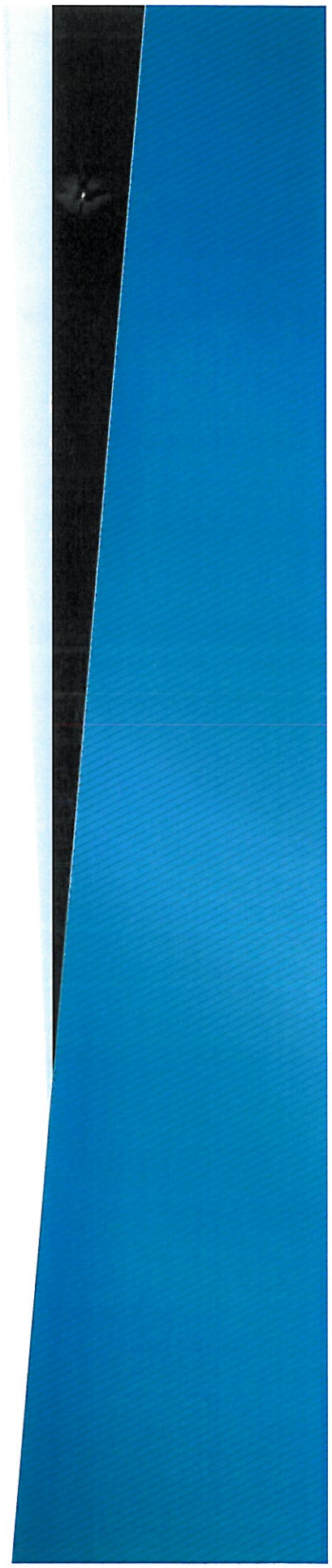
# Comments – FY 2021–22 Budget

- ▶ Water Budget
  - Income
  - Expenses
  - CIP's
- ▶ Wastewater Budget
  - Income
  - Expenses
  - CIP's



# 10-Year CIP Plan

Water & Wastewater



# 10-Year Capital Improvement Projects

2018				
Location	Start	End	Size	Footage
South Circle	Bicknell	Village Drive	8"	1,200
Village Drive	South Circle	North Circle	8"	1,400
Alt 1 - Oakwood	Pine Crest	Jameson	6"	800
Alt 2 - Ridgeview	Hwy 243	Village Drive	8"	780
<b>Total</b>				<b>4,180</b>

2019				
Location	Start	End	Size	Footage
Valley View	Crestview	South Ridge Reservoir	8"	1,050
Village View	South Ridge Road End	F Forest View	6"	800
Alt 2 - Ridgeview	Hwy 243	Village Drive	8"	780
<b>Total</b>				<b>2,630</b>

2020				
Location	Start	End	Size	Footage
Deerfoot Lane	Double View	Double View (Loop)	6"	2,500
Lookout Lane	Double View	End	6" & 2"	550
Inspiration Lane	Double View	End	4"	400
<b>Total</b>				<b>3,450</b>

2021				
Location	Start	End	Size	Footage
Lower Pine Crest	Riv. County Plygrnd Rd.	Harold K Smith	8"	1,400
North Cir-So. Circle	North interconnection		8"	1,100
<b>Total</b>				<b>2,500</b>

2022				
Location	Start	End	Size	Footage
Azalea	Point of Rocks	End	4"	200
Green Oaks Ct	Rockdale	End	6" & 4"	325
Rockdale Spur	Jameson	Reservoir	10"	850
Elk Lane (Liner)	Crestview	Marian View Dr		950
<b>Total</b>				<b>2,325</b>

2023 - 2027 To be determined 2,000

In Process
Completed
Removed From List



# Proposed 10-Year Capital Improvement Projects

Fiscal Year 2022 - 2023		
Project Name	Details	Estimated Costs
Strawberry Creek Diversion	6" pipeline from diversion to FV1A, 600 feet	\$ 100,000
Wastewater Treatment Plant	Construction for a new WWTP	\$ 2,000,000
Water Storage Tanks Rehab	Various water storage tanks require maintenance	\$ 100,000
Solar Projects	Various locations: Office, WWTP, FV1A, Wells 23 & 24, Foster Lake	\$ 150,000
<b>Total</b>		<b>\$ 2,350,000</b>

Fiscal Year 2023 - 2024		
Project Name	Details	Estimated Costs
Wastewater Treatment Plant	Construction for a new WWTP	-
Water Storage Tanks Rehab	Various water storage tanks require maintenance	-
Solar Projects	Various locations: office, WWTP, FV1A, Wells 23 & 24, Foster Lake	-
FV1A to Foster Lake Pipeline	10" pipeline from FV1A to Foster Lake, via Jameson Drive & Rockdale Road, 800 feet	250,000
<b>Total</b>		<b>250,000</b>

Fiscal Year 2024 - 2025		
Project Name	Details	Estimated Costs
Wastewater Treatment Plant	Construction for a new WWTP	-
Water Storage Tanks Rehab	Various water storage tanks require maintenance	-
Solar Projects	Various locations: office, WWTP, FV1A, Wells 23 & 24, Foster Lake	-
Lower Pine Crest Pipeline	8" pipeline from Riverside County Playground to Harold K. Smith, 1,400 feet	-
<b>Total</b>		<b>-</b>

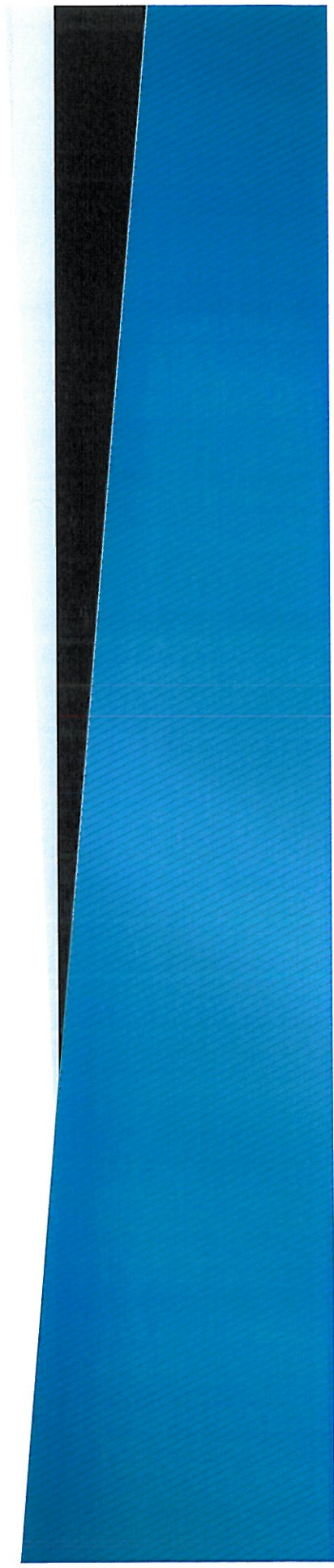
Fiscal Year 2025 - 2031 To be determined

# Comments – 10–Year CIP Plan

- ▶ **Water**
  - Suggestions
  - Modifications
- ▶ **Wastewater**
  - Suggestions
  - Modifications



# Water & Wastewater EDU's



# Water & Wastewater EDU's

## ▶ June 17, 2020 Board Meeting, Item 4 – Maximum Water & Sewer System Connections

### ◦ Water System

- Current connections: 1,666
- Approved connections: 16
- Available connections: 518
- Maximum connections: 2,200

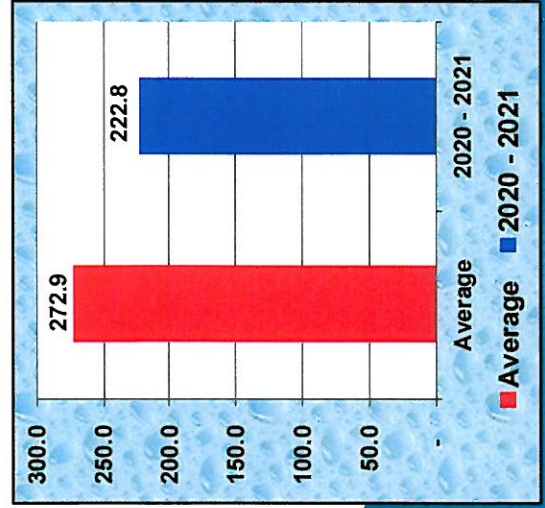
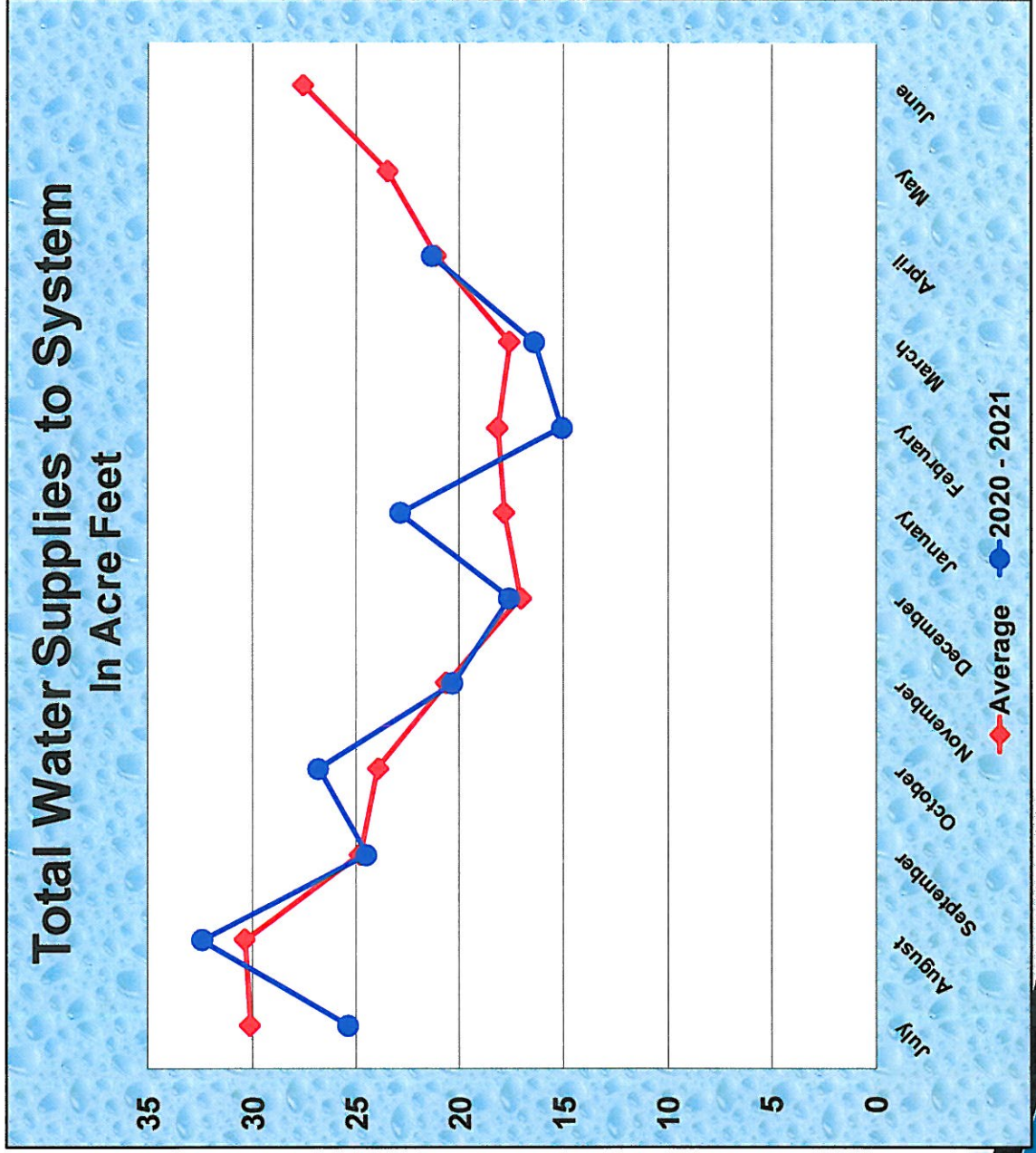
### ◦ Sewer System

- Current connections: 585
- Approved connections: 3
- Available connections: 74
- Maximum connections: 662



# Total Water Supplies to System In Acre Feet

Total Water Supplies To System		
Fiscal Year	Average	2020 - 2021
July	30.1	25.4
August	30.4	32.4
September	24.8	24.5
October	24.0	26.8
November	20.6	20.3
December	17.1	17.6
January	17.9	22.9
February	18.2	15.1
March	17.6	16.4
April	21.1	21.3
May	23.5	
June	27.6	
<b>Total</b>	<b>272.9</b>	<b>222.8</b>

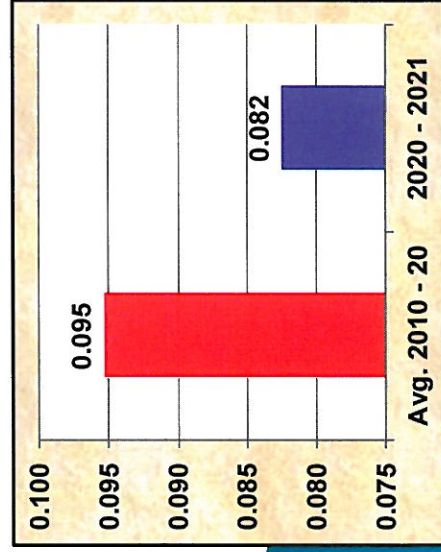
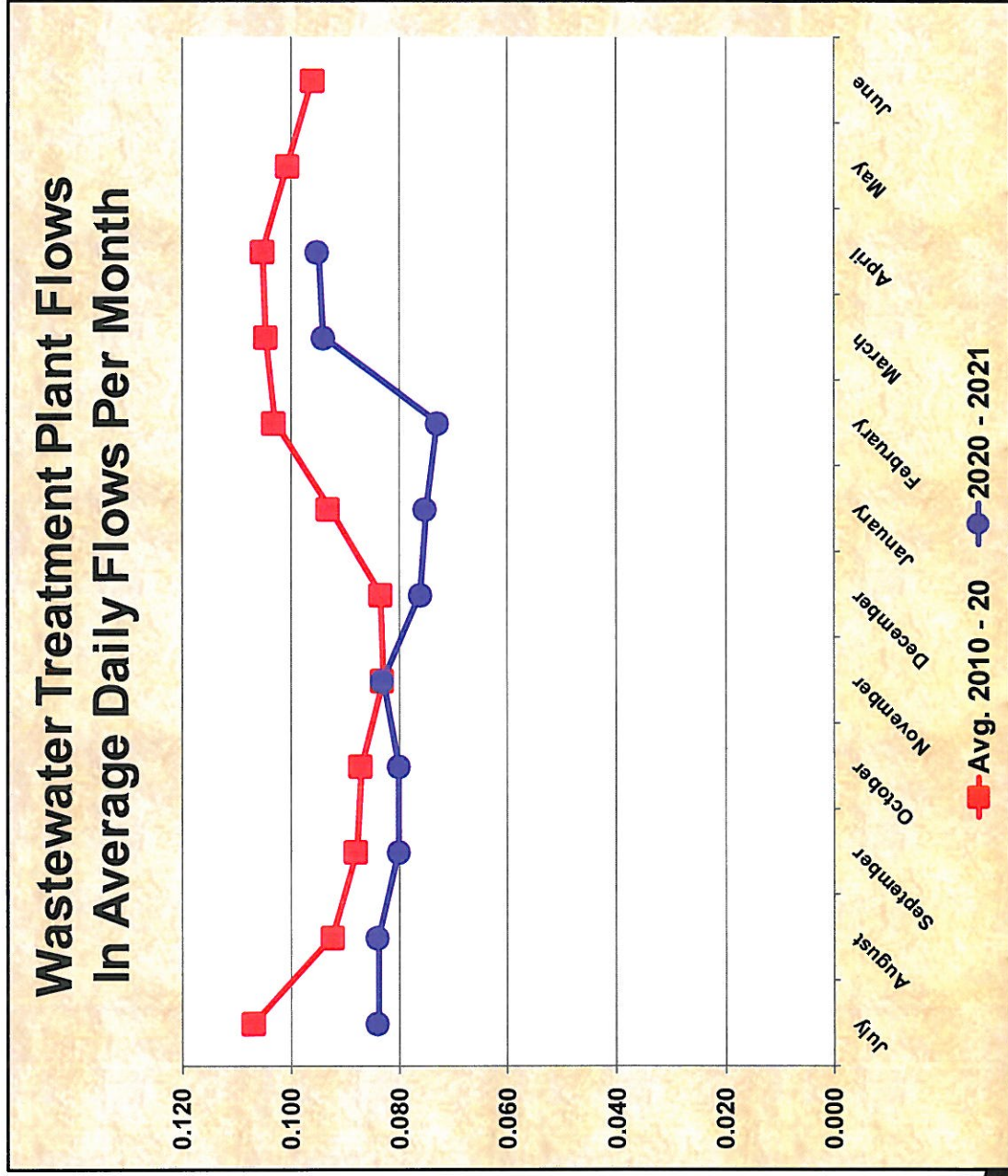




# Wastewater Treatment Plant Flows

## In Average Daily Flows Per Month

Month	Avg. 2010 - 20	2020 - 2021
July	0.107	0.084
August	0.092	0.084
September	0.088	0.080
October	0.087	0.080
November	0.083	0.083
December	0.083	0.076
January	0.093	0.075
February	0.103	0.073
March	0.105	0.094
April	0.105	0.095
May	0.101	
June	0.096	
<b>Average</b>	<b>0.095</b>	<b>0.082</b>

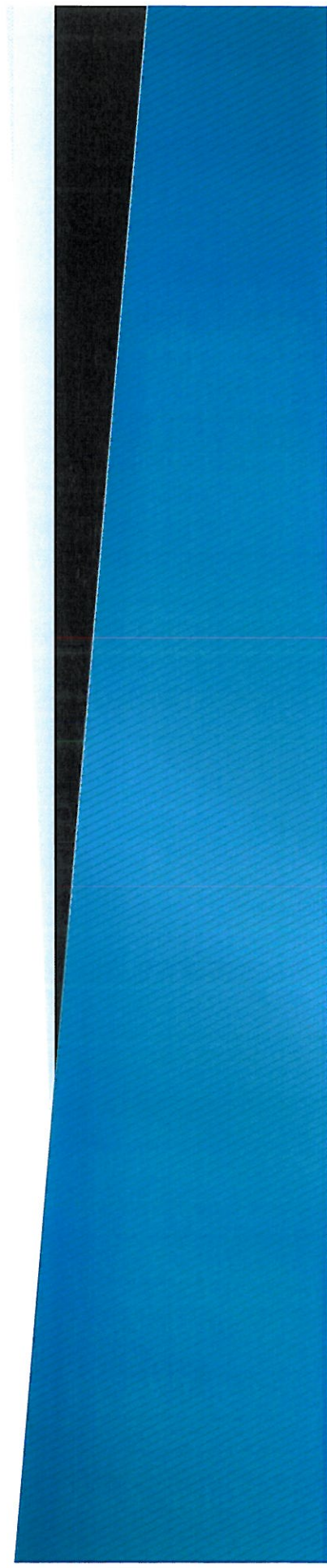


# Comments – EDU’s

- ▶ Water
  - Comments
- ▶ Wastewater
  - Comments



# Pipeline Construction Challenges



# Pipeline Construction Challenges

- ▶ Water Operations Requirements
- ▶ Staff For Pipeline
- ▶ Engineering
- ▶ Equipment



# Water Operations Requirements

- ▶ Water Operations requires 4 employees to operate and maintain the water system
  - Operations
  - Sampling & Testing
  - Maintenance
  - Reporting Requirements
  - Training



# Water Operations Requirements

- ▶ Operations
  - Operate Water System
  - Monitor Well Levels
  - Uranium Treatment Monitoring
  - Meter Reading
  - Construction Projects
  - Work With Vendors
  - Order Chemicals & Materials
  - Attend Meetings
- ▶ Sampling & Testing
  - Title 22 – Weekly Sampling
  - Well Site Testing
  - Treatment Plant Testing
  - Take Samples to Lab

# Water Operations Requirements

- ▶ Maintenance
  - Water System Flushing
  - Valve Exercising
  - Meter Installations, Repairs & Replacements
  - Well Site Maintenance
  - Treatment Plant Maintenance
  - Tree Trimming & Removal
  - Customer Service Calls
- ▶ Maintenance
  - Fire Hydrant Repairs & Maintenance
  - Fire Hydrant Install Protection Poles
  - Repair Main Line & Service Line Water Leaks



# Water Operations Requirements

- ▶ Reporting Requirements
  - Production Reports
  - State Reports
  - CCR
  - Hazmat Reports
  - Annual Report
  - Board Reports
  - Other Reports
- ▶ Training
  - Certificate – T & D
  - Employee Job Duties
  - Safety





# Staff For Pipeline

- ▶ Staff is required to install pipelines.
- ▶ All pipeline projects require a minimum of 4 employees dedicate to pipeline construction.
- ▶ The number of staff may increase based on safety requirements, location of the installation, length of the project, traffic patterns, weather concerns, depth and size of trench, and other factors unique to each project.



# Staff For Pipeline

- ▶ A pipeline project that is able to use unmanned traffic control will require at minimum the following four positions:
  - Crew Supervisor
    - Oversee the project and safety
  - Equipment Operator
  - Construction Workers (2)
    - Install the pipeline
- Traffic Control (2), when required



# Staff For Pipeline

<b>Staff Requirement - Permanent</b>					
<b>Staff Required</b>	<b>Hourly</b>	<b>Annual Salary</b>	<b>Benefits (33%)</b>	<b>Total Costs Annually</b>	
Crew Supervisor	\$ 39.80	\$ 82,784	\$ 27,319	\$ 110,103	
Equipment Operator	\$ 34.38	\$ 71,510	\$ 23,598	\$ 95,109	
Construction Workers - Pipe Installers	\$ 34.38	\$ 71,510	\$ 23,598	\$ 95,109	
Construction Workers - Pipe Installers	\$ 34.38	\$ 71,510	\$ 23,598	\$ 95,109	
<b>Total</b>		\$ 297,315	\$ 98,114	\$ 395,429	

# Engineering

- ▶ Engineering is required for all pipeline projects for the following reasons:
  - Survey pipeline location
  - CEQA or EPA Concerns – Potential
  - Design pipeline and determine materials needed
  - Develop Engineer estimate
  - Inspect pipeline installation
  - Other



# Engineering

Engineering	Estimated Costs
Survey	\$ 10,000
Design	\$ 10,000
Engr. Estimate	\$ 2,500
Inspection	\$ 10,000
Other (10%)	\$ 3,250
<b>Total</b>	<b>\$ 35,750</b>

## Cost Vary By Project



# Equipment

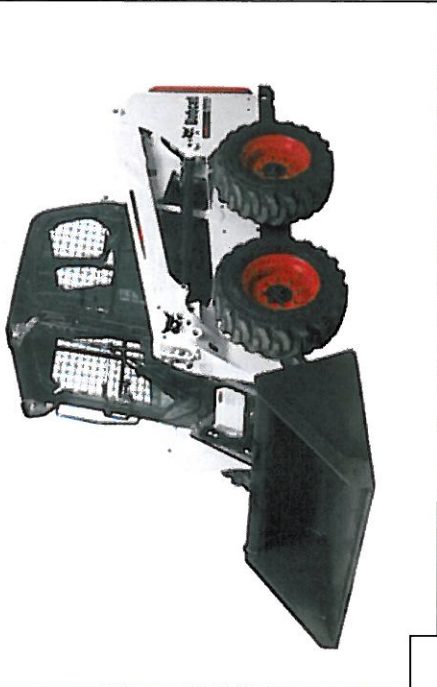
- ▶ Pipeline projects require equipment to move materials and install pipe in a safe responsible manner.
- ▶ The equipment required may vary by project.
- ▶ Equipment needed:
  - Safety equipment
  - Traffic control
  - Shoring
  - Trucks
  - Dump truck
  - Backhoe
  - Bobcat
  - Trailers
  - Pipe
  - Metal covers
  - Etc.



# Equipment

- ▶ Additional Costs
  - Garage/Covered Storage for Equipment
  - Increase Parts Inventory

Equipment	Purchase Cost
Safety Signs & Cones	\$ 2,000
Truck 4x4 - Crane	\$ 135,000
Truck 4x4 - Service Body	\$ 75,000
Truck 4x4 - Service Body	\$ 75,000
Dump Truck	\$ 125,000
Excavator	\$ 150,000
Backhoe	\$ 150,000
Bobcat	\$ 93,000
Trailer - Excavator	\$ 10,000
Trailer - Backhoe	\$ 10,000
Trailer - Bobcat	\$ 10,000
Shoring	\$ 25,000
Steel Trench Covers	\$ 25,000
<b>Total</b>	<b>\$ 885,000</b>

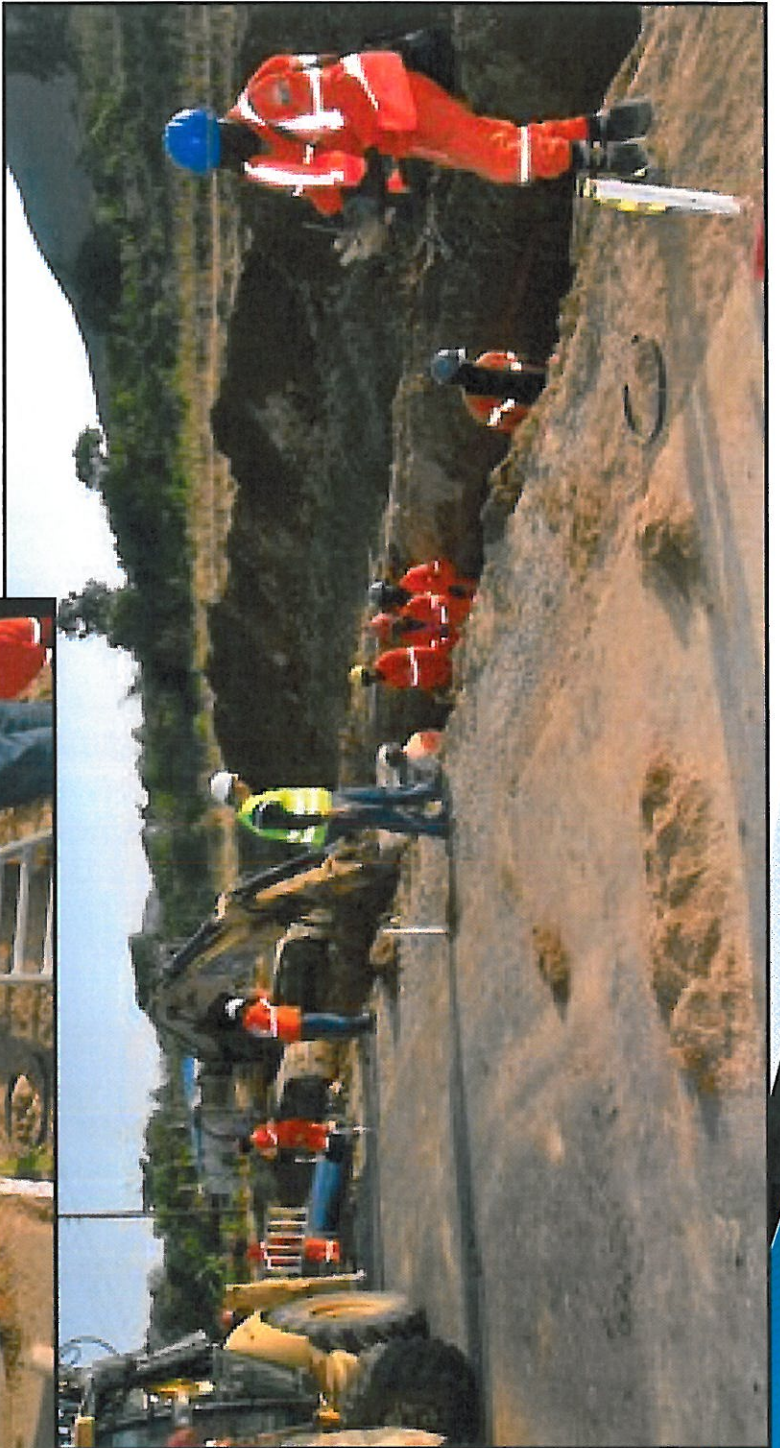




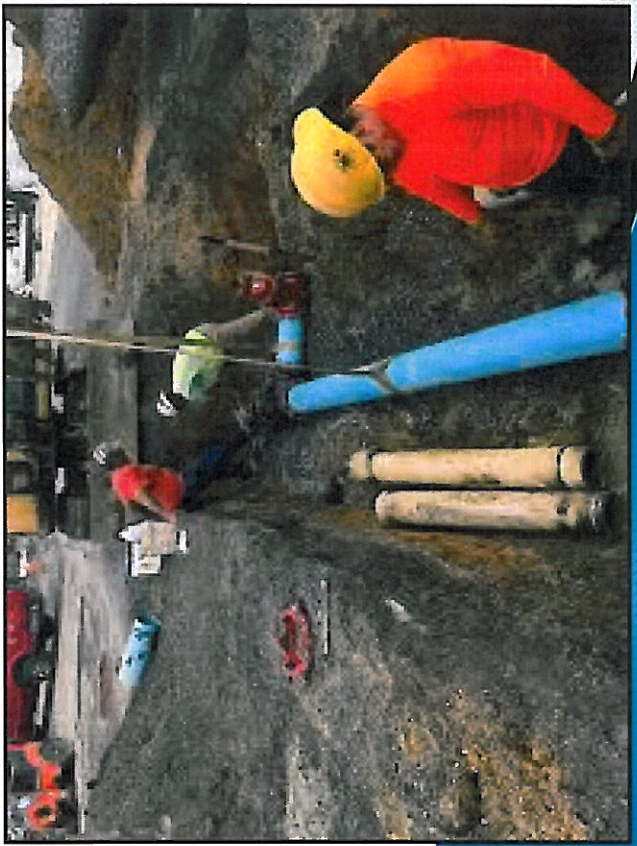
# Pipeline Construction Challenges

- ▶ Annual Costs
  - Staff= \$395,429
  - Engineering = \$ 35,750
- ▶ One-Time Purchase Costs
  - Equipment = \$885,000
- ▶ Garage / Storage for Equipment
  - Costs are unknown









# Challenge

- ▶ Challenge: How to install pipelines with 4 full-time employees?
  - Water Operations requires 4 full-time to employees of operate the water system.
  - Pipeline Construction requires a minimum of 4 full-time employees to perform installing pipelines.



# Options

- ▶ Water Operations is first priority
  - Water Operators continue to operate the system
- ▶ Pipeline Construction is a high priority
  - District hires a full-time Pipeline Construction Crew
    - Construction Supervisor
    - Equipment Operator
    - Construction Workers (2)
  - Contract for pipeline construction
    - Historically, common practice for the District



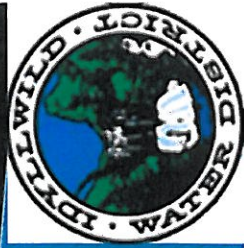
# Comments – Pipeline Construction Challenges

- ▶ Water Operations Requirements
  - Discussion & Comments
- ▶ Staff For Pipeline
  - Discussion & Comments
- ▶ Engineering
  - Discussion & Comments
- ▶ Equipment
  - Discussion & Comments
- ▶ Options
  - Discussion & Comments



# Open Discussion

Final Discussion & Comments





# Thank You For Attending

- ▶ Lunch Time!

