

ROUND MOUNTAIN WATER AND SANITATION

BOARD OF DIRECTORS MEETING

THURSDAY, October 19, 2023

2:00 P.M. – 3rd Street Gallery Building Conference Room

In-person or via zoom – Please call for Invite to Zoom

Please silence your cell phones – and mute your mic on Zoom

Call to Order

Roll Call

Pledge of Allegiance

Public input for those not on the agenda will be limited to 3 minutes.

Additions to the November 16, 2023, Board of Directors Meeting Agenda

Administrative Reports

- 1. Assistant District Manager – Peggy Quint
Caselle Conference Report
Xpressbillpay transition**
- 2. ORC – Steven Koch**
- 3. District Manager – Dave Schneider**

Consent Agenda

- 1. Approval of the Minutes of the September 21, 2023, Regular Board Meeting**
- 2. Financial Report and Approval of Checks for September 2023**

New Business

- 1. Excuse Steve Lasswell and Charles Bogle from September 21, 2023, Board meeting**
- 2. Tap Transfer from K2 Builders at Lot #24 – 40 Kryptonite to K2 Builders at Lot #32 owned by Hal Shephard**

Old Business

- 1. Update on potential solar array on 40 acres**
- 2. Colorado Retirement Association – Presentation to BOD - Mike Whalen and Tim Mullen**
- 3. Holman Capital – Public Sector Financing Solutions – Parker, CO**
- 4. Budget and Rate Chart update and discussion**

Adjourn

ROUND MOUNTAIN WATER AND SANITATION

BOARD OF DIRECTORS MEETING

THURSDAY, September 21, 2023

2:00 P.M. – 3rd Street Gallery Building Conference Room

Call to Order at 2:00 p.m. by Dave Schneider, District Manager

Roll Call: Dave Schneider, District Manager, Peggy Quint, Assistant District Manager, Carlan Cardenas, Administrative Assistant, Connie Thompson, Board Secretary, Randy Wilhelm, Board Treasurer, Mark Dembosky, Board Member at Large

Pledge of Allegiance led by Randy Wilhelm

Public input for those not on the agenda will be limited to 3 minutes. – no public in attendance.

Additions to the October 19, 2023, Board of Directors Meeting Agenda

1. CRA Presentation -
2. Budget discussion - Public Hearing will be in November.
3. Holman Capitol presentation

Administrative Reports

1. Assistant District Manager – Peggy Quint

- The process with changing Web-based Online Bill Payment System is going well. Xpress Bill Pay will be on-site on October 5th for training. The program will be “live” by the time the training takes place.
- Carlan and Peggy will be in Salt Lake City for a Caselle Conference October 9-12. Office will be closed.
- Public Hearing Notice for the Budget Approval will be published the 12th and 13th of October for the November 16, 2023, Public Hearing and Regular Board Meeting

2. ORC – Steven Koch

- Field Techs have been working on several leaks around the district. They have 10k feet more of jetting to complete this year to fulfil the Property and Liability Insurance compliance of jetting 1/3 of our sewer lines.

3. District Manager – Dave Schneider

- Meter Project – 725 meters are transmitting, which means this part of the project is about 99% complete. Caselle has reported that they have updated the new end points.

- **Smith Well – Iconergy will replace the oversized pump. The oversized pump can be installed on the Gallery Well and the installer may do that for the district at no cost.**
 - **Chlorinator system – replumbed and CDPHE approved.**
 - **Backup generator – should be installed and propane tank will be installed as well sometime in November.**
 - **Solar Array has a few issues. The inverter is not good and will be replaced under the warranty. It takes two inverters to run the array. There is about 6 more months of warranty. They cost about \$2500 each and no spare would be required. Optimizer links the panels together and optimizes the efficiency of the panels. They create more energy than if the panel was running by itself.**
- **Reservoir – Dave gave the go-ahead to the engineers to amend the construction drawings. They hope to have them completed by the middle of October. Due to the reduced cost of the project design being amended, the project is nearly fully funded. Once we get the construction drawings amended and approved by CDPHE, then we can ask for RFPs by January. There are already a few local contractors that are interested in the project. Local materials will be used and will help keep the cost down.**
- **WWTP – Pilot Plant – have a verbal “OK” from CDPHE. Application is almost complete. Dave met with Holman Capitol. They seem willing to lend us the funds to construct the pilot plant. Holman may be attending our October’s meeting. It depends on CDPHE’s official approval. There will be public notification to the town boards and perhaps the local radio station to update them on the status. Dave met with DOLA. They are researching the possibility of a partial grant for pilot plant a possibility. Powell Water to keep working on draft construction bid documents so that when/if we will be ready to move on the project. So far it has cost us about \$7,000 for the work Powell Water has done.**
- **Augmentation Plan Update – It has been a good water exchange year as the rain came at perfectly spaced intervals, so the creek has not run dry at all. We will enter the Fall Season at full pool. We have 355 acre-feet in DeWeese, and we will be right at that at the end of October. There was a challenge from a rancher when it started to get dry. The rancher went to Division II with objections, however, RMWSD was defended by Division II because the district does what is required.**

Consent Agenda

- 1. Approval of the Minutes of the August 17, 2023, Regular Board Meeting**
- 2. Financial Report and Approval of Checks for August 2023**

Motion to approve the Consent Agenda was made by Randy Wilhelm and seconded by Connie Thompson. Vote to approve the motion was 3-0

New Business

- 1. SDA Conference report**
 - **Connie**

Connie attended several breakout sessions that were very informative. She was most impressed with the less than technical information. She was surprised that attendance at RMWSD’s presentation was not more since it was good news! She felt she learned a lot about Eagle River and affordable housing. They have gotten into the real estate business for their employees. They have purchased units that they can rent at 80% of the market rate, so they can hire

employees that will stay. There are four small towns in their area. If the employees can't afford to live within the district, the response time is longer than if they lived close by. They also don't really have the locations for new housing. Connie didn't feel it was prudent to get into the real estate business. They have two full-time employees that handle just that part of their district. RMWSD strives to make wages so that employees can afford housing and offer benefits that make working for Round Mountain attractive.

- **Dave**

Dave said he enjoyed visiting with the specific financing companies, Iconergy, Fromm and new relationships were developed during the week.

- **Mark**

The appraisal of the Colorado River was concerning to Mark. We have decrees that will allow us to book water from the Pueblo Reservoir. He was glad to hear that current laws cover RMWSD. Some of the larger towns in the Arkansas Drainage System will start to shop for water rights. It is beneficial that we have teamed up with Upper Arkansas River Conservancy District. Mark said he feels that educating the community is essential, especially when a rate increase is presented to customers.

- **Peggy**

Peggy has found that the breakout sessions that are available to watch online at another time, allowed her to visit face to face with the companies that she is involved with on a day-to-day basis. She visited with CSD Pool, Streamline, Fromm, CEBT, and CRA. Dave and Carl did a great job in their presentation.

- **Carlan**

Carlan appreciates that SDA stays on top of legislation that is pertinent to RMWSD. She said she gained more knowledge of Special Districts and how we are all facing the same challenges.

2. **2024 Budget Draft discussion - RMWSD conducted a rate study in 2020 that was paid for by a grant. We had not increased rates on a consistent basis. The rate study resulted in a plan to increase rates in smaller annual increments. Our budget has become an operating reality rather than a task to complete to comply with regulations. Each year we are producing an actual tool that we use regularly. The 2024 has a few big items to note. Our revenue for water and wastewater are projected with a 3% increase. We projected a matching retirement fund; a 5% Cost of Living Increase, and a \$2/hour wage increase for when that takes place. Two major projects, The Wastewater Treatment Plant and the Reservoir, were not included in the 2024 Budget, so the proposed income and expenses are not reflected yet. It is easier to amend the budget than include it in the final budget. The projected tap purchases were calculated at only five. If the moratorium is lifted, the revenue for taps will increase. The Public Hearing will be held on November 16, 2023, at 2:00 p.m. and the board can approve the rate increase and the 2024 Budget on that date.**

3. **Rate Increase Proposal for 2024 discussion - Dave presented a Rate Proposal Chart. Board members were in agreement with the increases. Park Rates will be discontinued. The monthly rates will be at about 3% and rounded to an even amount for bookkeeping purposes. Peggy suggested that the NSF fee be increased from \$25 to \$35 to cover the charges that the district receives from the bank when a check does not clear the bank, or the customer does not input the payment method correctly and it rejects.**

4. **CEBT Insurance Renewal for 2024 Approval** – Peggy pointed out the increase in health insurance from \$831/month to \$860/month, Dental remains the same and Vision has been reduced to \$7/mo. This is per month – per employee. Life Insurance and Long-term and short-term disability insurance is based on wages of the employee and are reflected in the draft budget for 2024. Motion to renew the CEBT Insurance at the new rates was made by Connie Thompson, seconded by Randy Wilhelm and vote was unanimous.
5. **CRA Retirement discussion after meeting with them at SDA** – This is the only company in Colorado that has these very competitive rates. They are a not-for-profit organization. They are very safe and “neutral” with a 6 to 8% return on investment. Employees have control over their investments and can choose a riskier commodity if they wish. Consensus by the board to move forward with CRA and invite them to the next meeting.

Old Business

1. **Update on potential solar array on 40 acres** – The agreement has been sent to the attorney with a few changes. Pivot Power is still interested in the 40 acres. Dave will send the amended agreement. The first two years RMWSD will have access to the property. After that, there will be limited to no access to the property. This agreement will be work \$40K/year and electrical credits.

Adjourn at 4:10 p.m.

ROUND MOUNTAIN WATER & SANITATION DISTRICT
Financial Statements
September 30, 2023
Unaudited

TREASURER'S REPORT

ROUND MOUNTAIN WATER AND SANITATION DISTRICT
TREASURER'S REPORT

September 30, 2023

Unaudited

Cash Balance at 9/30/23- C Safe	\$	2,262,773.88
Cash Balance at 9/30/23-United Business Bank	\$	212,885.12
		\$ 2,475,659.00
Beginning Balance - 9/1/23	\$	2,554,966.44
Plus: Deposits	\$	132,329.25
Less: Disbursements	\$	(221,851.59)
Interest	\$	10,214.90
		\$ 2,475,659.00
Ending Cash Balance at 9/30/23	\$	2,475,659.00
Earmarked:		
Unearned Revenue-Tap Fees	\$	(237,300.00)
Funds Available for Capital Improvements	\$	(497,900.00)
Tabor - Emergency Reserve	\$	(30,550.00)
Reservoir	\$	(1,000,000.00)
		\$ 709,909.00
Net Cash Available*	\$	709,909.00
Cash Flow -		
January - Net Incoming	\$	18,179
February - Net Incoming	\$	44,328
March - Net Incoming	\$	8,769
April - Net Outgoing	\$	(21,178)
May - Net Outgoing	\$	(16,409)
June - Net Incoming	\$	13,907
July - Net Incoming	\$	124,793
August - Net Incoming	\$	90,170
September - Net Outgoing	\$	(79,307)
YTD - thru 9/30/23	\$	183,251



Statement Period: 09/01/2023 To 09/30/2023
 Account Number: CORE XX-XXXXX25-02

5975 S. Quebec St, Suite 330
 Centennial, CO 80111

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ROUND MOUNTAIN WATER & SANITATION DISTRICT - CORE
 RANDY WILHELM
 59000 HWY 69 NORTH
 Westcliffe, CO 81252
 U.S.A.

Statement Summary

Beginning Balance	\$2,252,594.78		
Purchases	\$0.00	7 Day Average	5.49 %
Shares Purchased		Monthly Average	5.48 %
Redemptions	\$0.00	YTD Interest	\$62,773.88
Shares Redeemed			
Interest Distributed	\$10,179.10		
Month End Balance	\$2,262,773.88		
Month End Shares Owned	1,131,386.94		

Transaction Summary

Date	Type	Amount	Shares	Market Value
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Net Transactions: \$0.00

STATEMENT OF NET POSITION

Round Mountain Water and Sanitation District

STATEMENT OF NET POSITION

September 30, 2023

Unaudited

ASSETS

Current Assets

Cash and Cash Equivalents	\$	2,463,670
Restricted Cash		33,362
Property Taxes Receivable		1,600
Accounts Receivable		105,043
Project Loan Fund Receivable		341,553
Prepaid Expenses		12,381
Inventory		90,247
Total Current Assets	\$	3,047,856

Long Term Assets

Property, Plant & Equipment	\$	7,350,419
Land, Rights of Way, etc.		1,002,024
Water Source of Supply		1,252,402
Accumulated Depreciation		(4,348,224)
Total Long Term Assets	\$	5,256,621

TOTAL ASSETS

\$ 8,304,477

LIABILITIES AND NET POSITION

Current Liabilities

Accounts Payable	\$	5,016
Warranty Deposits		33,202
Customer Deposits		312,200
Accrued Expenses		20,538
Total Current Liabilities	\$	370,956

Noncurrent Liabilities

Project Loan	\$	1,237,579
Long-term Debt		35,935
Total Noncurrent Liabilities	\$	1,273,514

Total Liabilities

\$ 1,644,470

Deferred Inflows of Resources

Deferred Revenue - Property Taxes	\$	1,600
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NET POSITION

Net Position - 1/1/23	\$	6,431,784
Revenue Over (Under) Expenditures at 9/30/23		226,623

TOTAL LIABILITIES AND NET POSITION

\$ 8,304,477

BUDGET VS ACTUAL

Round Mountain Water and Sanitation District

BUDGET VS ACTUAL - GAAP Basis

For the Nine Months Ended September 30, 2023

Unaudited

	2023 Budget	YTD Actual	Variance Favorable (Unfavorable)	Percent of Budget (YTD 75%)
REVENUE				
<u>Tax Revenue</u>				
General Property Taxes	\$ 52,866	\$ 51,266	\$ (1,600)	97%
Specific Ownership Taxes	5,500	5,550	50	101%
Total Tax Revenue	<u>\$ 58,366</u>	<u>\$ 56,816</u>	<u>\$ (1,550)</u>	<u>97%</u>
<u>Enterprise Revenue</u>				
<u>Water Revenue</u>				
Metered Sales to General Customers	\$ 475,000	\$ 396,941	\$ (78,059)	84%
Sales of Raw Water	4,000	-	(4,000)	0%
Water Vendor Sales	45,000	62,151	17,151	138%
Late Charges	4,500	4,349	(151)	97%
Total Water Revenue	<u>\$ 528,500</u>	<u>\$ 463,441</u>	<u>\$ (65,059)</u>	<u>88%</u>
<u>Sewer Revenue</u>				
Sales to Customers	\$ 545,000	\$ 411,586	\$ (133,414)	76%
Late Charges	4,500	4,349	(151)	97%
Total Sewer Revenue	<u>\$ 549,500</u>	<u>\$ 415,935</u>	<u>\$ (133,565)</u>	<u>76%</u>
<u>Connection Charges</u>				
Water Tap Connection Charges	\$ -	\$ 400	\$ 400	0%
Sewer Tap Connection Charges	-	200	200	0%
Total Connection Charges	<u>\$ -</u>	<u>\$ 600</u>	<u>\$ 600</u>	<u>0%</u>
<u>Contributed Capital</u>				
Water Tap/ System Development Fee	\$ -	\$ 5,500	\$ 5,500	0%
Sewer Tap/ System Development Fee	-	5,000	5,000	0%
Total Contributed Capital	<u>\$ -</u>	<u>\$ 10,500</u>	<u>\$ 10,500</u>	<u>0%</u>
<u>Miscellaneous Revenue</u>				
Fines and Forfeits	\$ 3,500	\$ 3,475	\$ (25)	99%
Earnings on Deposits and Investments	6,000	63,923	57,923	1065%
Gain/ Loss Assets	-	1,500	1,500	0%
Administrative Services (Other)	1,200	13,626	12,426	1136%
Total Miscellaneous Revenue	<u>\$ 10,700</u>	<u>\$ 82,524</u>	<u>\$ 71,824</u>	<u>771%</u>
Total Enterprise Revenue	<u>\$ 1,088,700</u>	<u>\$ 973,000</u>	<u>\$ 60,970</u>	<u>89%</u>
<u>Grants and Loans</u>				
Grant Proceeds	\$ -	\$ 176,670	\$ 176,670	0%
Loan Proceeds	-	-	-	0%
Total Grants and Loans	<u>\$ -</u>	<u>\$ 176,670</u>	<u>\$ 176,670</u>	<u>0%</u>
Total Revenue	<u>\$ 1,147,066</u>	<u>\$ 1,206,486</u>	<u>\$ 59,420</u>	<u>105%</u>
EXPENDITURES				
<u>RMWSD District Expenditures</u>				
<u>Salaries and Benefits</u>				
Salaries and Wages	\$ 40,860	\$ 29,104	\$ 11,756	71%
Employee Health Insurance Premiums	3,168	4,539	(1,371)	143%
Employer Contributions	1,817	2,284	(467)	126%
Total Salaries and Benefits	<u>\$ 45,845</u>	<u>\$ 35,927</u>	<u>\$ 9,918</u>	<u>78%</u>
<u>Professional Services</u>				
Legal and Clerical, etc.	\$ 1,000	\$ 525	\$ 475	53%
Engineering	-	-	-	0%
Total Professional Services	<u>\$ 1,000</u>	<u>\$ 525</u>	<u>\$ 475</u>	<u>53%</u>
<u>General Administration</u>				
Professional Development	\$ 1,500	\$ 2,329	\$ (829)	155%
Director Fees	12,000	4,600	7,400	38%
Auditing	18,000	51,014	(33,014)	283%
Election Expenses	2,000	33	1,967	2%
Postage	500	441	59	88%
Publicity, Subscription and Dues	200	121	79	61%
Printing, Duplicating, etc.	250	-	250	0%
County Treasurer's Collection Fee	2,800	2,564	236	92%
Travel Meetings	2,500	563	1,937	23%
Supplies	500	60	440	12%
Total General Administration	<u>\$ 40,250</u>	<u>\$ 61,725</u>	<u>\$ (21,475)</u>	<u>153%</u>
Total RMWSD District Expenditures	<u>\$ 87,095</u>	<u>\$ 98,177</u>	<u>\$ (11,082)</u>	<u>113%</u>

Round Mountain Water and Sanitation District

BUDGET VS ACTUAL - GAAP Basis

For the Nine Months Ended September 30, 2023

Unaudited

	2023 Budget	YTD Actual	Variance Favorable (Unfavorable)	Percent of Budget (YTD 75%)
<u>Administration and General Expenditures</u>				
<u>Salaries and Benefits</u>				
Salaries and Wages	\$ 182,428	\$ 138,318	\$ 44,110	76%
Employee Health Insurance Premiums	28,512	20,944	7,568	73%
Employer Contributions	13,500	10,853	2,647	80%
Total Salaries and Benefits	<u>\$ 224,440</u>	<u>\$ 170,115</u>	<u>\$ 54,325</u>	<u>76%</u>
<u>Professional Services</u>				
Purchased Services	\$ 2,000	\$ 4,509	\$ (2,509)	225%
Legal Services	2,000	892	1,108	45%
Other Professional Services	47,500	50,085	(2,585)	105%
Total Professional Services	<u>\$ 51,500</u>	<u>\$ 55,486</u>	<u>\$ (3,986)</u>	<u>108%</u>
<u>General Administration</u>				
Professional Development	\$ 3,000	\$ 5,238	\$ (2,238)	175%
Utility Services	20,000	14,766	5,234	74%
Building Rents	18,000	10,125	7,875	56%
Insurance- Workers Comp and P&L	25,000	19,262	5,738	77%
Postage	1,000	2,937	(1,937)	294%
Publicity, Subscription and Dues	7,500	2,523	4,977	34%
Printing, Duplicating, etc.	5,300	2,954	2,346	56%
Travel and Meetings	5,000	639	4,361	13%
Supplies	6,500	7,766	(1,266)	119%
Office Equipment	5,000	6,638	(1,638)	133%
Miscellaneous Expense	3,000	560	2,440	19%
Total General Administration	<u>\$ 99,300</u>	<u>\$ 73,408</u>	<u>\$ 25,892</u>	<u>74%</u>
Total Administration and General Expenditures	<u>\$ 375,240</u>	<u>\$ 299,009</u>	<u>\$ 76,231</u>	<u>80%</u>
<u>Water Enterprise Expenditures</u>				
<u>Transmission and Distribution</u>				
Salaries and Wages	\$ 35,252	\$ 29,528	\$ 5,724	84%
Employee Health Insurance Premiums	6,336	5,072	1,264	80%
Employer Contributions	2,810	2,317	493	82%
Purchased Services	8,000	3,668	4,332	46%
Engineering	2,000	-	2,000	0%
Repair and Maintenance Supplies	30,000	44,971	(14,971)	150%
Operating Supplies	4,000	4,427	(427)	111%
Water Vendor	1,800	-	1,800	0%
Other Improvements and Construction	4,000	184,367	(180,367)	4609%
Bad Debt Expense Water	-	-	-	0%
Machinery and Equipment	10,000	331	9,669	3%
Total Transmission and Distribution Expenditures	<u>\$ 104,198</u>	<u>\$ 274,681</u>	<u>\$ (170,483)</u>	<u>264%</u>
<u>Source of Supply</u>				
Salaries and Wages	\$ 35,252	\$ 29,528	\$ 5,724	84%
Employee Health Insurance Premiums	6,336	5,072	1,264	80%
Employer Contributions	2,810	2,317	493	82%
Purchased Services	3,000	4,697	(1,697)	157%
Administrative and Legal	30,000	10,500	19,500	35%
Engineering	25,000	42,438	(17,438)	170%
Repair and Maintenance Supplies	3,500	10,797	(7,297)	308%
Operating Supplies	4,000	1,826	2,174	46%
Fuel or Power for Pumping	30,000	24,851	5,149	83%
Land, Easements, Rights-of-Way	5,000	-	5,000	0%
Other Improvements and Construction	4,000	113	3,887	0%
Machinery and Equipment	10,000	331	9,669	3%
Total Professional Services- Source of Supply	<u>\$ 158,898</u>	<u>\$ 132,470</u>	<u>\$ 26,428</u>	<u>83%</u>
<u>Water Treatment</u>				
Salaries and Wages	\$ 35,252	\$ 29,528	\$ 5,724	84%
Employee Health Insurance Premiums	6,336	5,072	1,264	80%
Employer Contributions	2,810	2,317	493	82%
Professional Development	1,500	1,740	(240)	116%
Purchased Services	3,500	3,165	335	90%
Repair and Maintenance Supplies	3,000	3,007	(7)	100%
Operating Supplies	3,500	1,824	1,676	52%
Employee Clothing Allowance	\$ 750	\$ 657	\$ 93	\$ 1

Round Mountain Water and Sanitation District

BUDGET VS ACTUAL - GAAP Basis

For the Nine Months Ended September 30, 2023

Unaudited

	2023 Budget	YTD Actual	Variance Favorable (Unfavorable)	Percent of Budget (YTD 75%)
Other Improvements and Construction	4,000	-	4,000	0%
Machinery and Equipment	10,000	331	9,669	3%
Total Water Treatment	<u>\$ 70,648</u>	<u>\$ 47,641</u>	<u>\$ 23,007</u>	<u>67%</u>
Total Water Enterprise Expenditures	<u>\$ 333,744</u>	<u>\$ 454,792</u>	<u>\$ (121,048)</u>	<u>136%</u>
<u>Wastewater Enterprise Expenditures</u>				
<u>Collection and Transmission</u>				
Salaries and Wages	\$ 35,252	\$ 29,528	\$ 5,724	84%
Employee Health Insurance Premiums	6,336	5,072	1,264	80%
Employer Contributions	2,810	2,317	493	82%
Purchased Service	4,000	4,119	(119)	103%
Repair and Maintenance Supplies	2,500	5,910	(3,410)	236%
Operating Supplies	3,500	1,876	1,624	54%
Fuel or Power for Pumping	2,500	1,680	820	67%
Bad Debt Expense Sewer	-	-	-	0%
Other Improvements and Construction	4,000	-	4,000	0%
Machinery and Equipment	10,000	331	9,669	3%
Total Collection and Transmission	<u>\$ 70,898</u>	<u>\$ 50,833</u>	<u>\$ 20,065</u>	<u>72%</u>
<u>Treatment</u>				
Salaries and Wages	\$ 35,252	\$ 29,529	\$ 5,723	84%
Employee Health Insurance Premiums	6,336	5,072	1,264	80%
Employer Contributions	2,810	2,317	493	82%
Professional Development	2,500	1,697	803	68%
Purchased Service	3,000	3,428	(428)	114%
Administrative and Legal	2,000	-	2,000	0%
Engineering	10,000	-	10,000	0%
Repair and Maintenance Supplies	8,000	3,751	4,249	47%
Operating Supplies	3,500	2,216	1,284	63%
Fuel or Power for Pumping	18,000	16,614	1,386	92%
Employee Clothing Allowance	750	657	93	88%
Other Improvements and Construction	4,000	-	4,000	0%
Machinery and Equipment	10,000	331	9,669	3%
Total Treatment	<u>\$ 106,148</u>	<u>\$ 65,612</u>	<u>\$ 40,536</u>	<u>62%</u>
Total Wastewater Enterprise Expenditures	<u>\$ 177,046</u>	<u>\$ 116,445</u>	<u>\$ 60,601</u>	<u>66%</u>
<u>System Maintenance Agreements Expenditures</u>				
Water Tank Inspection Services	\$ 2,000	\$ -	\$ 2,000	0%
Total Water Tank Inspection Services	<u>\$ 2,000</u>	<u>\$ -</u>	<u>\$ 2,000</u>	<u>0%</u>
<u>Debt Service Revenue Expenditures</u>				
<u>DOLA</u>				
DOLA - Principal (Water System)	\$ 4,346	\$ 5,031	\$ (685)	116%
DOLA - Interest (Water System)	2,734	2,049	685	75%
Total DOLA - Debt Service	<u>\$ 7,080</u>	<u>\$ 7,080</u>	<u>\$ -</u>	<u>100%</u>
<u>CWRPDA</u>				
CWRPDA - Principal	\$ 58,080	\$ 29,040	\$ 29,040	50%
CWRPDA - Interest	18,783	9,391	9,392	50%
Total CWRPDA - Debt Service	<u>\$ 76,863</u>	<u>\$ 38,431</u>	<u>\$ 38,432</u>	<u>50%</u>
Total System Maintenance Agreement and Debt Service	<u>\$ 85,943</u>	<u>\$ 45,511</u>	<u>\$ 40,432</u>	<u>53%</u>
Total Expenditures	<u>\$ 1,059,068</u>	<u>\$ 1,013,934</u>	<u>\$ 45,134</u>	<u>96%</u>
EXCESS OF REVENUE OVER (UNDER) EXPENDITURES	<u>\$ 87,998</u>	<u>\$ 192,552</u>	<u>\$ 104,554</u>	
Add Back: Principal Payments on Debt		<u>\$ 34,071</u>		
NET EXCESS OF REVENUE OVER (UNDER) EXPENDITURES		<u>\$ 226,623</u>		

2023 DELINQUENT ACCOUNT ACTIVITY				
	30 DAYS		60 DAYS	90 DAYS
JANUARY	\$ 10,030.87		\$ 3,526.03	\$ 1,233.01
FEBRUARY	\$ 2,394.75		\$ -	\$ 1,173.75
MARCH	\$ 14,482.19		\$ 120.30	\$ 1,215.70
APRIL	\$ 10,342.05		\$ 2,239.17	\$ 79.20
MAY	\$ 9,026.48		\$ 1,357.90	\$ 416.50
JUNE	\$ 9,579.80		\$ 1,066.11	\$ 326.30
JULY	\$ 1,640.30		\$ 2,489.47	\$ 334.28
AUGUST	\$ 16,272.12		\$ 1,462.90	\$ 863.61
SEPTEMBER	\$ 14,004.57		\$ 2,490.26	\$ 845.28
OCTOBER				
NOVEMBER				
DECEMBER				

DIFFICULT DELINQUENT ACCOUNTS			NOTES
NAME	ACCT #	BALANCE	
Judith Hicks	395.01	\$ 1,306.70	Account is more than 180 days late.
Adam Gelbart	8017.01	\$ 225.16	Account is more than 180 days late.
Zachary Kay	8020.20	\$ 281.61	Account is more than 180 days late.
Aimee Carnes	8080.02	\$ 362.52	Account is more than 180.00 days late.



Date: 08/24/2023 - 09/25/2023

No. Trips: 709

Volume (Gallons): 254,602

Revenue: \$10,184.04

Revenue by Customer - Summary

Customer Name	Total Trips	Total Volume	Total Revenue
Adam McSwain	4	690	\$27.60
Adam Weaver	3	840	\$33.60
Aden Troyer	3	280	\$11.20
Alan Clark	8	1,380	\$55.20
Allen Brunke	2	560	\$22.40
Allen Yoder	5	2,120	\$84.80
Andreas Scherer	9	3,150	\$126.00
Andrew Redding	2	550	\$22.00
Anthony Wheeler	9	4,860	\$194.40
Aron Jordan	2	550	\$22.00
Benjamin Padia	4	1,310	\$52.40
Benjamin Worley	2	760	\$30.40
Blake Russell	6	2,629	\$105.16
Bob Comer	1	190	\$7.60
Bob Lightman	10	2,796	\$111.84
Bob Lynch	4	1,100	\$44.00
Bob Smiley	3	1,020	\$40.80
Bradley Anderson	5	1,475	\$59.00
Brady Johnson	5	1,375	\$55.00
Bria Roth	7	1,717	\$68.68
Brian Barker	6	2,454	\$98.16
Brian Hammer	10	2,350	\$94.00
Brian Maddalena	2	555	\$22.20
Bruce Allen Dannels	3	919	\$36.76
Bruce Willette	1	707	\$28.28
Bryce Roscoe	27	3,835	\$153.40
Bud Layman	4	1,000	\$40.00
C. D. Hibbard	1	225	\$9.00
Cecil McDonald	16	1,515	\$60.60
Chad Weimer	6	1,710	\$68.40
Chris Bryson	2	900	\$36.00
Chris LeCuyer	5	1,000	\$40.00
Clayton Wynne	2	550	\$22.00
Cory Gouldner	2	1,080	\$43.20
Dan Viet	2	560	\$22.40

Customer Name	Total Trips	Total Volume	Total Revenue
Dan Wilroy	1	315	\$12.60
Daniel Kriegh	1	275	\$11.00
Daryl Burks	7	1,274	\$50.96
Dave Cruickshank	13	12,464	\$498.54
David Barnett	11	6,650	\$266.00
David Bosley	7	1,290	\$51.60
David Pollat	2	900	\$36.00
David Quade	1	1,100	\$44.00
David Salyers	3	975	\$39.00
Dean Plank	2	600	\$24.00
Debra Whiteing	1	210	\$8.40
Derick Oquist	2	520	\$20.80
Desmond Barela	1	250	\$10.00
Donald Byerly	2	660	\$26.40
Doug Bayer	7	2,109	\$84.36
Douglas Craker	12	3,955	\$158.20
Dustin Asling	4	1,690	\$67.60
Dwayne Johnson	5	276	\$11.04
Ed Lyons	1	700	\$28.00
Francis Graham	1	285	\$11.40
Frank Sterioti	6	1,200	\$48.00
Glenn Haffly	3	795	\$31.80
Greg Woycio	2	399	\$15.96
Heather Rutherford	4	974	\$38.96
Ian Schaul	2	550	\$22.00
James Collins - CO	5	1,473	\$58.92
James Patterson	2	250	\$10.00
Jared McClain	1	125	\$5.00
Jarrod Briggs	4	780	\$31.20
Jason Mast	8	2,240	\$89.60
Jeannie Lightheart	4	1,190	\$47.59
Jeff Jennings	2	347	\$13.88
Jeff Seley	3	1,050	\$42.00
Jeremiah Huelsman	11	3,363	\$134.52
Jeremy Baxley	5	1,255	\$50.20
Jerry Bersche	1	275	\$11.00
Jim Fox	2	390	\$15.60
Jim Luman	5	1,600	\$64.00
Jim Stapert	3	201	\$8.04

Customer Name	Total Trips	Total Volume	Total Revenue
Jim Wilde	6	1,298	\$51.92
Jimmy Whitehead	10	2,030	\$81.20
Jo Suomala	2	255	\$10.20
Jody Miller	4	1,395	\$55.80
Joe Swanson	6	750	\$30.00
John Armstrong	1	230	\$9.20
John Hutchinson	4	620	\$24.80
John Laughrey	19	6,770	\$270.80
John Wilson	1	200	\$8.00
Jon Oldfield	23	8,800	\$352.00
Jonathan Bowman	1	150	\$6.00
Jonathan Sargent	4	770	\$30.80
Joseph Delo	1	275	\$11.00
Kagan and Son LLC	1	340	\$13.60
Karl Burgeson	3	370	\$14.80
Karl Zimmer	4	1,085	\$43.40
Kay Booth	1	215	\$8.60
Kelly Newman	2	530	\$21.20
Kendall Hill	1	475	\$19.00
Kevin Taylor	1	200	\$8.00
Larea Oldaker	2	400	\$16.00
Larry Barnes	6	1,127	\$45.08
Lee Thomas	1	610	\$24.40
Linda and John Miller	2	600	\$24.00
Linda Wolfe	1	62	\$2.48
Lisa Monday	7	2,020	\$80.80
Lisa Raby	6	3,417	\$136.68
Lisa Trujillo	13	5,100	\$204.00
Lloyd Mondragon	4	660	\$26.40
Lorena Brown	3	880	\$35.20
Louis Passon & Shannon McLanis	2	603	\$24.12
Luke Hauf	1	175	\$7.00
Margaret Stipanovic-Taylor	3	825	\$33.00
Mark Medina	3	960	\$38.40
Martin MacNeilage	2	390	\$15.60
Marvin Strom	1	10	\$0.40
Matt Burgess	1	275	\$11.00
Maynard Mast	7	1,785	\$71.40
Michael Bollinger	1	275	\$11.00

Customer Name	Total Trips	Total Volume	Total Revenue
Michael Bowman	2	755	\$30.20
Michael Viglino	3	690	\$27.60
Michel Volluz	2	135	\$5.40
Mike Dennis	1	96	\$3.84
Mike Foulk	2	270	\$10.80
Mike Halpin	2	2,100	\$84.00
Mike Heuss	3	1,080	\$43.20
Mike Sharpe	1	1,065	\$42.60
Misty Atnip	3	1,000	\$40.00
Neal Williamson	6	1,980	\$79.20
Pat Hines	6	1,450	\$58.00
Patrick Riley	4	265	\$10.60
Paul Cruzen	3	540	\$21.60
Peter Kirchner	1	275	\$11.00
Phillip Desmond	8	1,627	\$65.08
Pueblo Wood Products	1	300	\$12.00
Randy Platchek	1	260	\$10.40
Richard Abbott	7	1,505	\$60.19
Richard Daniels	7	2,975	\$119.00
Rob & Reba Ziarnick	4	1,494	\$59.76
Rob Canterbury	4	2,360	\$94.40
Robert Buffum	1	320	\$12.80
Robert Covey	3	800	\$32.00
Robert Kernell	2	1,010	\$40.40
Ron Nail	5	763	\$30.52
Ronald Lozenski	2	465	\$18.60
Rory Cooke	5	2,100	\$84.00
Round Mountain	1	10	\$0.40
Sarah Hope	3	535	\$21.40
Scott Eifler	1	200	\$8.00
Sean Mendoza	22	6,845	\$273.80
Seifert Enterprises	2	8,600	\$344.00
Shane O'Neil	2	600	\$24.00
Shawn Shannon	7	2,478	\$99.12
Steve Peterman	3	280	\$11.20
Steve Piburn	2	1,650	\$66.00
Steve Shugart	4	1,400	\$56.00
Stuart Short	2	400	\$16.00
Sue Roberson	6	5,216	\$208.64

Customer Name	Total Trips	Total Volume	Total Revenue
Susan Van Matre	3	611	\$24.44
Thad Miner	4	1,015	\$40.60
Tim Lorenzen	1	285	\$11.40
Tim Zortman	1	5,275	\$211.00
Todd Camper & Dan Gundlach	3	675	\$27.00
Tony Caporali	1	270	\$10.80
Town of Westcliffe	2	500	\$20.00
Valerie Jennings	4	1,000	\$40.00
Wes Taylor	3	750	\$30.00
Westcliffe Meats	27	32,000	\$1,280.00
William Brunton	2	475	\$19.00
William Thomas	1	158	\$6.32
Yoanny Santos Martin	12	5,095	\$203.80

Peggy Quint

From: K2 Custom Builders Inc. <k2custombuilders@gmail.com>
Sent: Monday, October 16, 2023 9:32 AM
To: Peggy Quint
Subject: Water/Sewer Tap Transfer

I am writing to request the transfer of our water/sewer tap from Lot #24 (Kryptonite Court), Shadow Ridge) to Lots #32 (Carbide Court) Shadow Ridge owned by Hal & Agatha Shepherd to enable them to build their home next Spring.

Thank you for your kind consideration at the Board Meeting October 16, 2023.

Best Regards,

Dennis

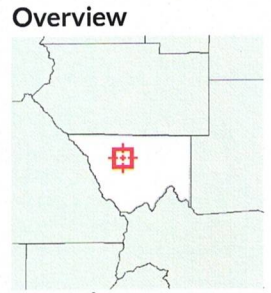
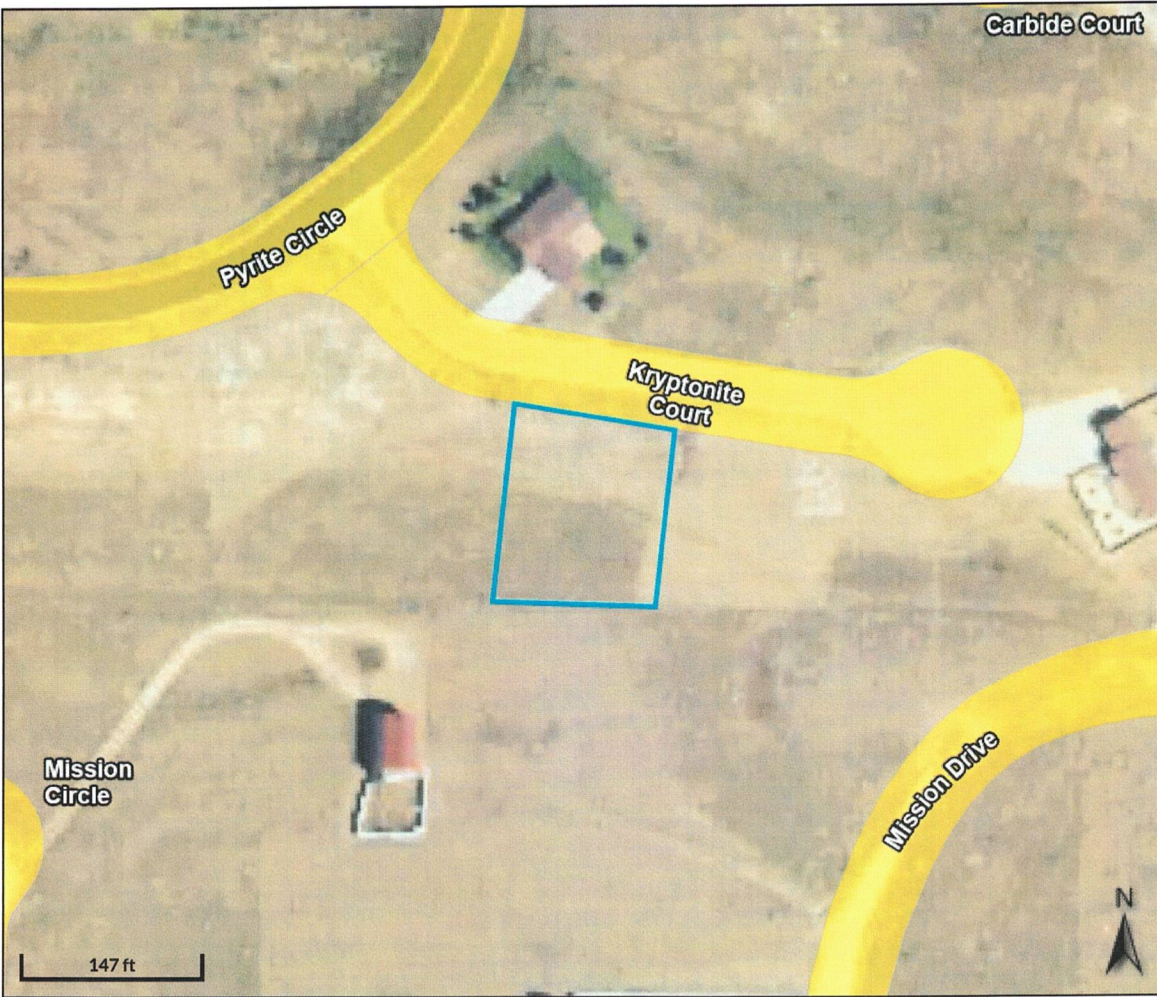
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Dennis Kelley

K2 Custom Builders Inc. web site: www.k2custombuilders.com

Office: 719-783-2720 / Cell: 772-539-2285 / email: k2custombuilders@gmail.com

PO Box 606 Westcliffe, CO 81252



Legend
 Roads
 City Labels

Parcel ID	0010081424	Physical Address	KRYPTONITE CT # 40	Land Value	\$	Last 2 Sales			
Acres	0.45	Mailing Address	SHADOW RIDGE HOLDINGS LLC	Building Value	\$	Date	Price	Reason	Qual
Property Class	n/a		PO BOX 305	Misc Value	\$	5/17/2004	0	n/a	U
Taxing District	256		WESTCLIFFE CO 81252-0305	Total Value	\$26,325	4/24/2004	0	n/a	U
				Taxes Value	\$				

Date created: 10/17/2023
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Developed by **Schneider**
 GEOSPATIAL

October 10, 2023

Round Mountain Water and Sanitation District Board of Directors
59000 - SR 69 Westcliffe, Colorado 81252

Attention: Peggy Quint, assistant manager

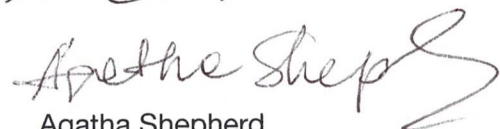
We would like to request a transfer of a water/sewer tap from Dennis Kelly on lot #24 to our lot #32 located in Shadow Ridge Subdivision. Both lots are in Shadow Ridge Subdivision. His lot is on Kryptonite Court and our lots on Carbide Court. We bought the lot on November 12th 2021.

Thank you for this consideration. We plan to build in the spring of 2024 as we are working on plans now.

We would like to be placed on the October 16th agenda.

Sincerely,

Hal Shepherd

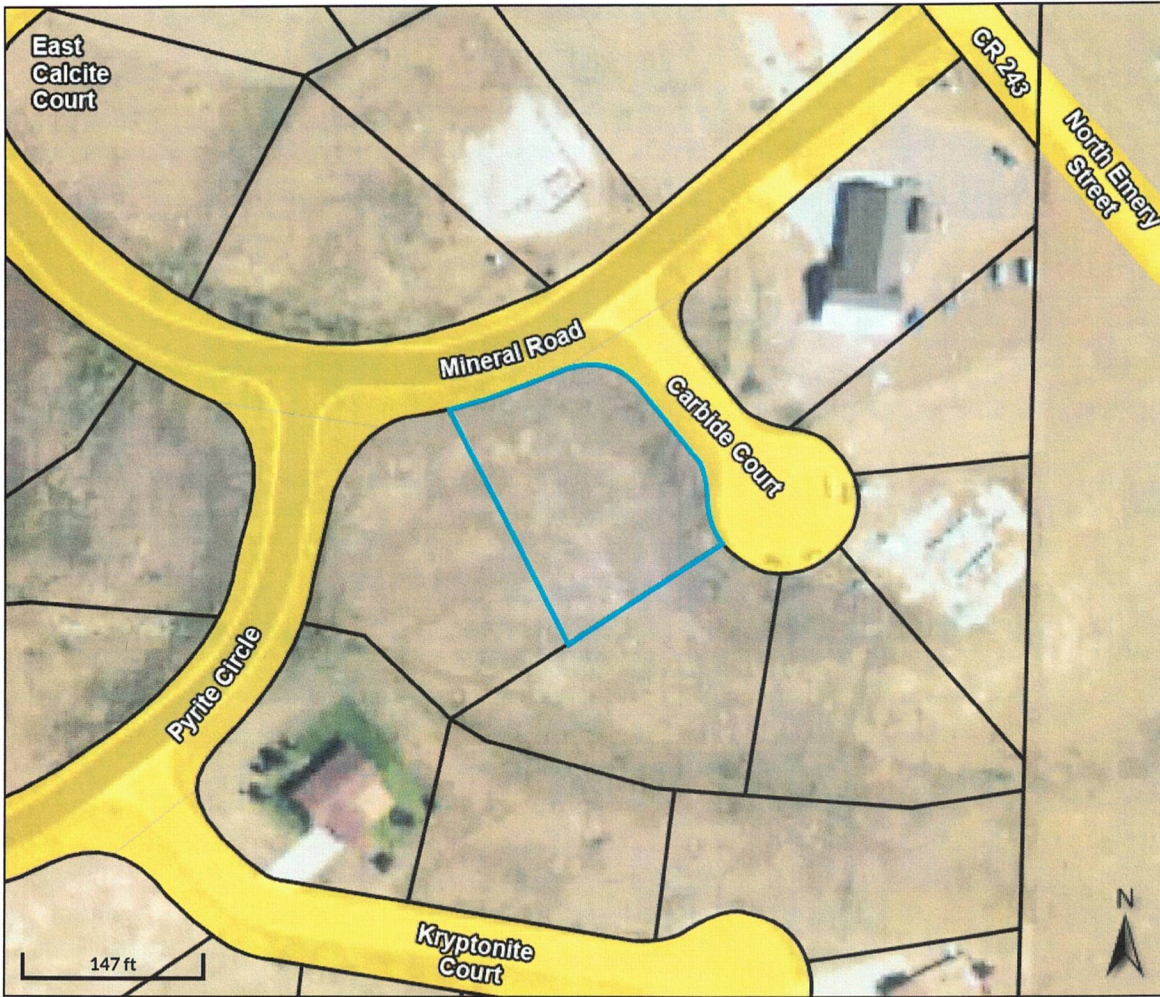


Agatha Shepherd

Our contact information:

970-749-3054
303-921-0237

181 S. Hennequin Creek Drive
Westcliffe, CO 81252



- Legend**
- Parcels
 - Roads
 - City Labels

Parcel ID	0010081432	Physical Address		Land Value	\$	Last 2 Sales			
Acres	0.68	Mailing Address	SHEPHERD HAL & AGATHA	Building Value	\$	Date	11/12/2021	Price	\$27000
Property Class	n/a	Address	181 SO HENNEQUIN CREEK	Misc Value	\$			Reason	S.O.A (Gianci)
Taxing District	256		DR	Total Value	\$31,824	1/24/2007	\$45000	#	#243802
			WESTCLIFFE CO 81252	Taxes Value	\$				n/a
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Date created: 10/17/2023
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PROPOSED WATER TAP FEES JANUARY 2024

Tap Size	System Development Fee	Water Main Tapping Fee	Equipment Fee
3/4"	\$7,150 \$14,000	\$500 \$600	Actual Cost
1"	\$14,300 \$28,000	\$600 \$700	Actual Cost
1.5"	\$28,600 \$56,000	\$700 \$800	Actual Cost
2"	\$42,900 \$84,000	\$800 \$900	Actual Cost

SYSTEM DEVELOPMENT FEES AND CONNECTION CHARGES FOR TAPS OVER 2" WILL BE DETERMINED BY THE BOARD OF DIRECTORS

WASTEWATER TAP FEES

ERU	System Development Fee	Sewer Main Tapping Fee	Equipment Fee
1	\$6,500 \$13,500	\$300 \$400	N/A

SYSTEM DEVELOPMENT FEES AND CONNECTION CHARGES FOR TAPS WITH POLLUTANT LOADINGS OVER 1 ERL WILL BE DETERMINED BY THE BOARD OF DIRECTORS

DISTRICT TECHNICIANS WILL INSTALL THE WATER AND SEWER TAPS ONCE THE OWNER EXPOSES THE MAINS.

THE OWNER IS RESPONSIBLE FOR ALL OTHER EXPENSES AND REQUIREMENTS FOR INSTALLING WATER AND SEWER SERVICE LINES INCLUDING MATERIALS, EXCAVATION, INSTALLATION, BEDDINGS AND BACKFILLING.

PROPERTIES WITH PRE-EXISTING WATER AND SEWER STUB-INS WILL NOT BE REQUIRED TO PAY THE TAPPING FEE.

CERTAIN PROPERTIES WITHIN THE DISTRICT ARE SUBJECT TO WATER AND SEWER EXTENSION REBATE AGREEMENTS. THESE PROPERTIES SHALL PAY AN ADDITIONAL MAIN INSTALLATION REIMBURSEMENT FEE AS DESCRIBED IN THE REBATE AGREEMENT WHEN PURCHASING TAPS.

WATER AND WASTEWATER RATES AND FEES

EFFECTIVE JANUARY 2024 6% increase

<u>WATER SERVICE</u>	IN-DISTRICT	OUT OF DISTRICT	PARK RATE	*WHEN IN USE*
	proposed	proposed	DELETE	GARDEN TAP IN-DISTRICT RATE
MINIMUM MONTHLY FEE	\$29.30	\$43.90		
TIERED USAGE/GALLONS FEE				
0 - 5,000	\$3.20	\$4.80		
5,000 - 10,000	\$3.60	\$5.40		
10,000 - 20,000	\$3.80	\$5.70		
20,000 - 30,000	\$4.10	\$6.10		
30,000 - 50,000	\$4.30	\$6.50		
50,000 - 100,000	\$4.60	\$6.90		
100,000 +	\$5.00	\$7.30		
		\$7.50		
				\$46.50
				\$5.00
				\$5.60
				\$6.00
				\$6.50
				\$6.90
				\$7.30
				\$8.00

WASTEWATER SERVICE

	IN DISTRICT	OUT OF DISTRICT
ERU* MONTHLY FEE	\$34.50	\$51.70
USAGE/GALLONS FEE - Capped at 5,000 gallons per ERU	\$36.50	\$54.80
PER 1,000 GALLONS FEE	\$3.90	\$5.80
	\$4.10	\$6.20

BULK WATER SALES

SET UP FEE	\$35.00
PER GALLON FEE	.04 .05

OTHER CHARGES

DISCONNECT/RECONNECT FEE	\$50.00	
OFF CYCLE METER READING	\$20.00	
INSUFFICIENT FUNDS CHARGE	\$25.00	\$35.00
FEE FOR FILING LIEN	\$150.00	
DELINQUENT BILLING FEE	\$15.00/MO	
UNAUTHORIZED DISCHARGE FINE	\$1,000/DAY	
UNAUTHORIZED USE FINE	\$250/DAY	

* No charge for one meter disconnect and one reconnect per account per year

2024 Budget

		2022	Actual	2023	2023	2024
		Budget	12/31/2022	Budget	Year to Date	Budget
REVENUE						
Acct #	Tax Revenue					
311	General Property Taxes	\$ 43,998	\$ 52,436	\$ 52,886	\$ 48,532	\$ 61,000
312	Specific Ownership Taxes	5,500	7,463	5,500	4,012	5,500
	Total Tax Revenue	\$ 49,498	\$ 59,899	\$ 58,386	\$ 52,544	\$ 66,500
Enterprise Revenue						
<u>Water Revenue</u>						
340	Metered Sales to General Customers	\$ 455,000	\$ 448,296	\$ 475,000	\$ 294,375	\$ 504,000
342	Sales of Raw Water	4,000	-	\$ 4,000	\$ -	\$ -
341	Water Vendor Sales	35,000	49,896	\$ 45,000	\$38,042	\$85,000
345	Late Charges	2,500	4,710	\$ 4,500	\$ 3,889	\$ 7,800
	Total Water Revenue	\$ 496,500	\$ 502,901	\$ 528,500	\$ 336,307	\$ 596,800
<u>Sewer Revenue</u>						
346	Sales to Customers	\$ 624,000	\$ 528,368	\$ 545,000	\$ 314,761	\$ 578,000
349	Late Charges	2,500	-	\$ 2,250	\$ -	\$ -
	Total Sewer Revenue	\$ 626,500	\$ 528,368	\$ 547,250	\$ 314,761	\$ 578,000
<u>Connection Charges</u>						
343	Water Tap Connection Charges	\$ 800	\$ 4,900	\$ -	\$ 400	\$ 12,000
347	Sewer Tap Connection Charges	-	1,500	\$ -	\$ 200	\$ 8,000
	Total Connection Charges	\$ 800	\$ 6,400	\$ -	\$ 600	\$ 20,000
<u>Contributed Capital</u>						
344	Water Tap/ System Development Fee	\$ 11,000	\$ -	\$ -	\$ 5,500	\$ 280,000
348	Sewer Tap/ System Development Fee	-	-	\$ -	\$ 5,000	\$ 270,000
	Total Contributed Capital	\$ 11,000	\$ -	\$ -	\$ 10,500	\$ 550,000
<u>Miscellaneous Revenue</u>						
351	Fines and Forfeits	\$ 3,500	\$ 2,830	\$ 3,500	\$ 2,735	\$ 3,500
361	Earnings on Deposits and Investments	550	3,636	\$ 6,000	\$ 33,856	\$ 50,000
362	Rents and Royalties	-	5,500	\$ -	\$ -	\$ -
363	Gain/ Loss Assets	-	824,720	\$ -	\$ -	\$ -
368	Administrative Services (Other)	1,200	5,566	\$ 1,200	\$ 3,990	\$ 2,500
	Total Miscellaneous Revenue	\$ 5,250	\$ 842,252	\$ 10,700	\$ 40,580	\$ 56,000
<u>Grants and Loans</u>						
	Grant Proceeds	\$ 3,275,000	\$ 228,690	\$ 1,151,250	\$ -	\$ -
	Loan Proceeds	2,651,000	-	\$ 1,300,000	\$ 744,297	\$ -
	Total Grants and Loans	\$ 5,926,000	\$ 228,690	\$ 2,451,250	\$ 744,297	\$ -
	Total Enterprise Revenue	\$ 7,066,050	\$ 1,879,921	\$ 1,086,450	\$ 702,748	\$ 1,800,800
	Total Revenue	\$ 7,115,548	\$ 1,939,820	\$ 1,144,836	\$ 1,499,589	\$ 1,867,300
EXPENDITURES						
RMWSD District Expenditures						
<u>Salaries and Benefits</u>						
45.110	Salaries and Wages	\$ 18,240	\$ 17,143	\$ 27,202	\$ 12,116	\$ 36,611
45.211	Employee Health Insurance Premiums	2,904	3,074	\$ 3,056	\$ 2,188	\$ 5,300
45.220	Employer Contributions	1,400	1,363	\$ 1,400	\$ 951	\$ 2,200
	Total Salaries and Benefits	\$ 22,544	\$ 21,580	\$ 31,658	\$ 15,255	\$ 44,110
<u>Professional Services</u>						
45.322	Legal and Clerical	\$ 1,000	\$ 82	\$ 1,000	\$ 1,000	\$ 1,000
45.340	Engineering	500	-	\$ -	\$ -	\$ -
	Total Professional Services	\$ 1,500	\$ 82	\$ 1,000	\$ 1,000	\$ 1,000
<u>General Administration</u>						
45.240	Professional Development	\$ 2,000	\$ -	\$ 1,500	\$ 405	\$ 1,500
45.311	Director Fees	12,000	6,800	\$ 12,000	\$ 3,800	\$ 12,000
45.320	Auditing	12,000	11,929	\$ 13,000	\$ 13,000	\$ 25,000
45.414	Election Expenses	1,000	-	\$ 2,000	\$ 244	\$ 2,000
45.511	Insurance (PO E&O)	1,700	-	\$ -	\$ -	\$ -

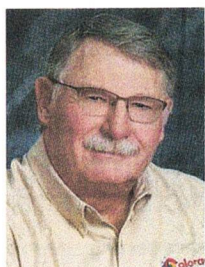
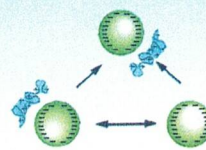
2024 Budget

		2022	Actual	2023	2023	2024
		Budget	12/31/2022	Budget	Year to Date	Budget
	<u>Source of Supply</u>					
60.110	Salaries and Wages	\$ 32,535	\$ 33,648	\$ 38,621	\$ 23,097	\$ 42,441
60.211	Employee Health Insurance Premiums	6,113	6,507	\$ 6,336	\$ 3,938	\$ 6,999
60.220	Employer Contributions	2,400	2,610	\$ 2,810	\$ 1,813	\$ 3,305
60.300	Purchased Services	2,000	5,207	\$ 3,000	\$ 3,719	\$ 4,000
60.322	Administrative and Legal	20,000	16,141	\$ 30,000	\$ 1,530	\$ 10,000
60.340	Engineering	25,000	3,904	\$ 25,000	\$ 38,903	\$ 25,000
60.430	Repair and Maintenance Supplies	2,000	9,715	\$ 3,500	\$ 7,783	\$ 5,000
60.600	Operating Supplies	3,000	5,635	\$ 4,000	\$ 1,059	\$ 4,000
60.605	Fuel or Power for Pumping	30,000	30,429	\$ 30,000	\$ 19,098	\$ 25,000
60.710	Land, Easements, Rights-of-Way	10,000	-	\$ 5,000	\$ -	
60.730	Other Improvements and Construction	-	-	\$ 4,000	\$ 113	\$ 4,000
60.740	Machinery and Equipment	5,000	-	\$ 10,000	\$ 107	\$ 10,000
	Total Professional Services- Source of Supply	\$ 138,048	\$ 113,794	\$ 162,267	\$ 101,160	\$ 139,745
	<u>Water Treatment</u>					
70.110	Salaries and Wages	\$ 32,535	\$ 33,648	\$ 38,621	\$ 23,097	\$ 42,441
70.211	Employee Health Insurance Premiums	6,113	6,507	\$ 6,336	\$ 3,938	\$ 6,999
70.220	Employer Contributions	2,400	2,610	\$ 2,810	\$ 1,813	\$ 3,305
70.240	Professional Development	1,500	3,473	\$ 1,500	\$ 1,697	\$ 2,000
70.300	Purchased Services	2,500	4,914	\$ 3,500	\$ 1,325	\$ 4,000
70.430	Repair and Maintenance Supplies	2,000	2,869	\$ 3,000	\$ 1,583	\$ 3,000
70.600	Operating Supplies	2,500	5,603	\$ 3,500	\$ 1,087	\$ 3,500
70.620	Employee Clothing Allowance	600	753	\$ 750	\$ 657	\$ 1,000
70.730	Other Improvements and Construction	1,000	-	\$ 4,000	\$ -	
70.740	Machinery and Equipment	5,000	-	\$ 10,000	\$ 107	\$ 10,000
	Total Water Treatment	\$ 56,148	\$ 60,376	\$ 74,017	\$ 35,305	\$ 76,245
	Total Water Enterprise Expenditures	\$ 2,719,194	\$ 2,716,122	\$ 343,851	\$ 222,968	\$ 335,505
	<u>Wastewater Enterprise Expenditures</u>					
	<u>Collection and Transmission</u>					
80.110	Salaries and Wages	\$ 32,535	\$ 33,648	\$ 38,621	\$ 23,097	\$ 42,441
80.211	Employee Health Insurance Premiums	6,113	6,507	\$ 6,336	\$ 3,938	\$ 6,999
80.220	Employer Contributions	2,400	2,610	\$ 2,810	\$ 1,813	\$ 3,305
80.300	Purchased Service	3,000	5,169	\$ 4,000	\$ 3,134	\$ 4,000
80.430	Repair and Maintenance Supplies	2,500	4,419	\$ 2,500	\$ 5,194	\$ 8,000
80.600	Operating Supplies	2,500	5,586	\$ 3,500	\$ 1,134	\$ 3,500
80.605	Fuel or Power for Pumping	2,500	2,385	\$ 2,500	\$ 1,248	\$ 2,500
80.730	Other Improvements and Construction	1,000	-	\$ 4,000	\$ -	\$ 4,000
80.740	Machinery and Equipment	5,000	-	\$ 10,000	\$ 107	\$ 10,000
80.750	Bad Debt Expense	-	-	\$ -	\$ -	
	Total Collection and Transmission	\$ 57,548	\$ 60,324	\$ 74,267	\$ 39,666	\$ 84,745
	<u>Treatment</u>					
90.110	Salaries and Wages	\$ 32,535	\$ 33,647	\$ 38,621	\$ 23,097	\$ 42,441
90.211	Employee Health Insurance Premiums	6,113	6,508	\$ 6,336	\$ 3,938	\$ 6,999
90.220	Employer Contributions	2,400	2,609	\$ 2,810	\$ 1,813	\$ 3,305
90.240	Professional Development	2,500	1,057	\$ 2,500	\$ 1,655	\$ 2,500
90.300	Purchased Service	2,000	6,543	\$ 3,000	\$ 2,443	\$ 4,000
90.322	Administrative and Legal	2,000	-	\$ 2,000	\$ -	\$ 2,000
90.340	Engineering	70,000	-	\$ 10,000	\$ -	\$ 10,000
90.430	Repair and Maintenance Supplies	7,000	8,837	\$ 8,000	\$ 3,018	\$ 8,000
90.600	Operating Supplies	2,500	5,496	\$ 3,500	\$ 1,420	\$ 3,500
90.605	Fuel or Power for Pumping	15,000	20,403	\$ 18,000	\$ 12,580	\$ 20,000
90.620	Employee Clothing Allowance	600	752	\$ 750	\$ 657	\$ 1,000
90.730	Other Improvements and Construction	-	-	\$ 4,000	\$ -	\$ 4,000
90.740	Machinery and Equipment	5,000	-	\$ 10,000	\$ 107	\$ 10,000

2024 Budget

	2022	Actual	2023	2023	2024
	Budget	12/31/2022	Budget	Year to Date	Budget
Total Treatment	\$ 147,648	\$ 85,853	\$ 109,517	\$ 50,729	\$ 117,745
Total Wastewater Enterprise Expenditures	\$ 205,196	\$ 146,176	\$ 183,784	\$ 90,394	\$ 202,491
System Maintenance Agreements Expenditures					
230 Water Tank Inspection Services	\$ 28,015	\$ -	\$ -	\$ -	\$ -
Total Water Tank Inspection Services	\$ 28,015	\$ -	\$ -	\$ -	\$ -
Debt Service Expenditures					
CWRPDA					
236 CWRPDA - Principle	\$ 1,000	\$ 1,609	\$ -		\$ 58,955
40.811 CWRPDA- Interest	16,002	2,586	-		17,908
Total CWRPDA - Debt Service	\$ 17,002	\$ 4,195	\$ -	\$ -	\$ 76,862
DOLA					
235 DOLA - Principal (Water System)	\$ 3,406	\$ 4,564	\$ 4,346	\$ 4,346	\$ 5,283
40.820 DOLA - Interest (Water System)	3,674	2,516	2,734	2,734	1,797
Total DOLA - Debt Service	\$ 7,080	\$ 7,080	\$ 7,080	\$ 7,080	\$ 7,080
Total System Maintenance Agreement and Debt Service	\$ 52,097	\$ 11,274	\$ 7,080	\$ 7,080	\$ 83,942
Lease Purchase Agreements					
224 Lease/Purchase - Principal (Real Estate)	\$ 24,340	\$ 20,983	\$ 31,543	\$ -	\$ -
40.806 Lease/Purchase - Interest (Real Estate)	28,834	19,003	28,834		
Total Lease Purchase Agreements	\$ 53,174	\$ 39,986	\$ 60,377	\$ -	\$ -
Total Expenditures	\$ 3,419,147	\$ 3,297,186	\$ 1,037,940	\$ 575,483	\$ 1,143,041
EXCESS OF REVENUE OVER (UNDER)					
EXPENDITURES	\$ 3,696,401	\$ (1,357,366)	\$ 106,896	\$ 924,106	\$ 724,259
FUNDS AVAILABLE - BEGINNING OF YEAR					
FUNDS AVAILABLE - END OF YEAR	\$ 3,924,546	#REF!	#REF!	\$ 924,106	\$ 724,259

Electrocoagulation Applications for Wastewater



BY Dave Diss
Wastewater Training Specialist

While working in Western Colorado back in the 1980s as an environmental specialist for a major energy company, I was introduced to the process of electrocoagulation for the treatment of hydrocarbons in industrial wastewater. Physics and chemistry being right in my wheelhouse, the technology fascinated me. The process of applying a small electrical current to metal plates submerged in the produced water for the separation of the particulates just seemed like it should work! We were always looking for solutions to remove contaminants from wastewater associated with hydrocarbon extraction. Though the process of electrocoagulation for wastewater had been around since 1906, it was still an imperfect science.

The conventional wastewater treatment processes use filtration and ultrafiltration, ion exchange, chemical applications, reverse osmosis, or biological methods to remove contaminants. However, the *new and improved* technology of treating wastewater via electrocoagulation has gained attention once again due to its smaller footprint, efficiency, eco-friendly, and cost-effective methods, while producing the least amount of sludge without chemical additives. As a result, **Electrocoagulation** now presents itself as a viable treatment technology.

Simply put, electrocoagulation means solidifying, or semi-solidifying, a solution of liquid and suspended solids by passing

an electrical current through it. Clean electricity properly applied will cause a multitude of water contaminants to become separable from water. This procedure separates flocculated particulates from the water, enabling them to be removed, leaving behind only the clean, purified water.

Electrocoagulation is a treatment process that combines the advantages of *coagulation, flotation, and electrochemistry*. This technology can produce a high-quality effluent, with the removal of 90-98% of heavy metals such as lead and copper, along with both organic and inorganic pollutants. The EC process also removes emerging contaminants like radionuclides and forever contaminants like PFOS, and PFAS.

The Process

The method uses an electrolytic cell with an anode and a cathode to destabilize the charges, both of which are stimulated by a DC power source while using pairs of parallel conductive metal plates. During this process, the positive side undergoes anodic reactions, while the negative side goes through cathodic reactions.

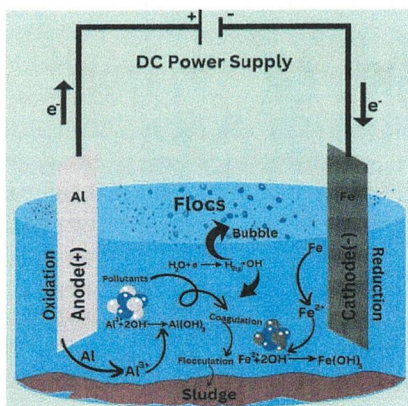
Consumable metal plates, such as iron or aluminum, are usually used as sacrificial electrodes to continuously produce

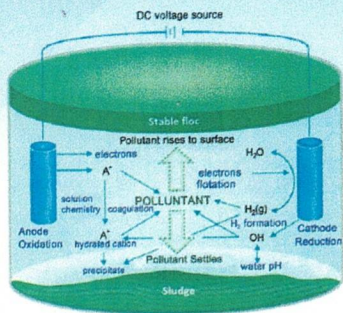
ions in the water and must be replaced periodically. The released ions neutralize the charges of the particles and begin coagulation. These ions remove undesirable contaminants either by chemical reaction and precipitation or by causing the colloidal materials to come together. Afterward, the flocculated particles can then be removed by flotation, or by any other secondary separation method.

Additionally, as water containing colloidal particulates, oils, or other contaminants move through the applied electric field, the physical and chemical properties of water and contaminants will alter. As a result, the electrons or reactive state destabilize the material in the water creating oxide sludge that can be separated making the treated water clean for discharge or for water reuse.

The electrocoagulation process also has the ability to remove 95-99% TSS, reduce BOD by 50-98%, and bacteria by 95-99%.

During electrocoagulation, metal ions are generated at the anode while hydrogen bubbles are released at the cathode. These hydrogen bubbles are responsible for the flotation of formed flocs to rise to the surface of the reactor where they coagulate and are removed.





“Electrocoagulation may soon move from the optional treatment method to the essential treatment method as the US EPA begins to enforce the laws protecting the environment from toxic wastes, including heavy metals.”

—Powell Water Systems, Inc.

The efficiency of EC depends on the best combination of several processes.

- **Precipitation** is one key mechanism of the EC process. The metal hydroxides created from metal ions in the water settle to the bottom of the reactor, can then be extracted, and collected in a much purer form.
- **Adsorption** is another key mechanism in electrocoagulation. This process involves the removal of the impurities when they become adsorbed onto the surface of the plates. This process is especially effective for the removal of organic pollutants from the water, such as oils and grease.
- **Coagulation** is the last step of the EC process. Once the impurities are flocculated, they can be removed from the water through either sedimentation or filtration. This part of the process is particularly effective for removing bacteria and microorganisms from the water.

The Case for Metals

While the ion exchange process has been used to remove heavy metals in wastewater, it can only remove *low concentrations of contaminants* before the resin becomes oversaturated and requires regeneration. Electrocoagulation, however, is capable of processing wastewater with *higher concentrations* of these metals quickly and efficiently. In fact, one of the primary applications of the EC process in wastewater treatment is the ability to remove heavy metals from water. Using the precipitation mechanism, the metal hydroxides that have been created from metal ions in the water settle to the bottom of the reactor where they can be removed.

What about PFAS?

The chemical properties that make PFAS useful as stain repellents in carpet and clothing, as well as in firefighting foams and other industrial processes also make them resistant to treatment in wastewater processes, and they often end up in biosolids and landfills. These are the dreaded “forever chemicals”, or “chemical rebar” as they are known since they never break down.



Powell Water

However, new electrocoagulation treatment technologies have been developed by a local Colorado company that not only separates the PFAS

from water but also breaks the carbon-fluorine bond of these long-chain carbons, removing them in less than three minutes and converting them into inert safe environmentally friendly solids. What remains is purified water for reuse or discharge. This electrocoagulation process has been shown to reduce PFOA and PFOS below-proposed discharge limits for leachate water and coagulated solids under three conditions with the new **Powell Water** EC process, using the aluminum blades, aluminum & iron blades, or iron blades with hydrogen peroxide. By destroying the fluoride carbon bond, the environment is safe

from PFOA and PFOS contamination. The new simple and cost-effective process is “the best way to eliminate PFAS, PFOA, and PFOS.”

The Advantage

The EC process is an environmentally friendly method that requires minimal personnel training, no chemical additives, or expensive equipment. Without the need for chemicals, there is no danger of residual chemicals being released into the effluent, the cost of the chemical coagulation process is eliminated, and there is no need for chlorination for the reduction of odors and toxins. Additionally, there is only a low level of current consumed in most cases, making it easy to produce using green energy.

Wrapping it up

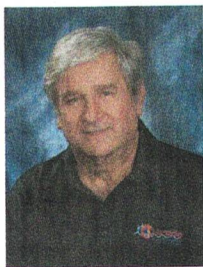
As the years have passed since my days as an environmental specialist in the energy field, I’ve thought many times about why electrocoagulation just wasn’t viable for removing these nuisance contaminants from wastewater. It just didn’t make sense that it wouldn’t work. Recently though, I’ve had the opportunity to learn that it **IS** indeed viable. Not only that but it’s become one of the very few processes that break down and neutralize contaminants and leave very little waste. I learned that it’s the thickness and spacing of the plates and the proper DC current that make this excellent process function. It’s very interesting to see the advancements in this technology through the application of physics and chemistry that make this treatment process such a great option for the removal of all types of contaminants.

A wide variety of wastewaters can benefit from an electrocoagulation treatment process. Replacing traditional chemical and filtration treatment processes, EC has been proven to reduce operational costs with significant benefits, utilizing its ability to remove a wide range of impurities and produce high-quality effluent. **C**

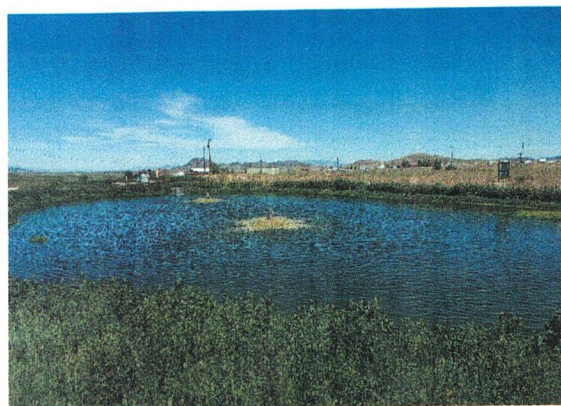


EWQMS/Round Mountain W&SD Electrocoagulation Pilot Project

Proving an Alternative to ‘Mechanical’ and ‘Evaporative Lagoons’



BY KELVIN (KELLY) STONE
Energy Efficiency Technician



PROBLEMS:

1. Round Mountain Water and Sanitation District (W&SD) Wastewater Treatment Plant (WWTP) needs an upgrade to meet discharge permit requirements (to meet new 303D Stream Water Standards). Much lower nitrogen requirements cannot be met with the existing wastewater treatment process (aerated lagoon system).
2. Energy costs for RMW&SD are substantial due to lower efficiency motors utilized for aeration and transfer pumping.

Energy and Water Quality Management System (EWQMS):

EWQMS is the optimization of energy management (electric load/usage based on ‘time of use’, and ‘demand rates’) with limiting consideration of water quality requirements.

Water (and wastewater) operations depend heavily on the use of electric equipment including aerators, HVAC, motors/pumps, and related control systems.

EWQMS:

The concept of an EWQMS is to optimize energy management to improve operational efficiency and lower cost while ensuring water quality requirements are met.

In practice, EWQMS attempts to ‘optimize operations’ through the use of software applications:

EWQMS:

- predicts daily water flows and energy consumption.
 - determines unavailable electric equipment (that could impact operation performance)
 - determines predicted hourly/daily energy costs (based on rates and ‘time of use’ – TOU)
 - determines predicted water quality limitations (based on flow rates, volume, and equipment availability)
- Examples of EWQMS-related operational optimization opportunities include:
- reduced aeration scheduling based on dissolved oxygen monitoring (utilizing SCADA, free oxygen from algae

photosynthesis, improved diffused aeration efficiencies)

- monitoring of power consumption, optimum scheduling of energy-consuming equipment based on ‘time of use, and avoidance of demand charges resulting in energy cost reduction
- monitoring of pH, alkalinity, and oxidation-reduction potential (ORP), water flows (utilizing SCADA), to optimize nitrification/denitrification (managing anoxic zone) to meet water quality requirements
- monitoring of VFD settings, amperage, flows, frequency/speed of motors/pumps (utilizing SCADA), to optimize motor operation/scheduling and reduce energy cost.

Existing Round Mountain W&SD WWTP Description:

The existing WWTP utilizes floating aerators to provide needed oxygen to lagoon cells (providing biological treatment of wastewater). Aeration results in oxygen supply (in addition to oxygen produced by algae based on photosynthesis on

sunny days). However, floating aerators are not efficient at the transfer of atmospheric oxygen to lagoon bio-organisms. Additionally, floating aerators are energy inefficient in comparison to diffused air systems. The current treatment process is inadequate to remove nitrogen (also arsenic and phosphate) for discharge permit compliance.

The current RW&SD WWTP provides wastewater treatment with three lagoon cells (cell #1 – 2 aerators, cell #2 – 3 aerators, and cell #3-polishing cells with no aeration). Improved nitrogen removal is necessary to meet much lower discharge permit nitrogen requirements (also arsenic and phosphate levels).

Proposed Round Mountain W&SD WWTP Description:

Expansion of existing lagoon cells is necessary (with required lining to prevent leaching) to accommodate nitrification/de-nitrification for nitrogen removal.

The addition of electro-coagulation equipment is proposed for the removal of contaminants, (including potential algae discharge). The use of customized

microbes (cultivated onsite) specific to removal requirements, is also proposed. to facilitate the removal of certain contaminants. Replacement of lower-efficiency floating aerators with micro-bubble air diffusion units are proposed to improve available oxygen for lagoon microbes, improve treatment, and lower energy costs.

Summary of Equipment, WWTP Modifications and Operational Changes for Project Implementation:

Equipment:

- Electro-Coagulation System (to provide advanced treatment necessary for a discharge permit compliance)
- Floating Micro-Bubble Air Diffuser System (to replace existing aerators and improve the efficiency of oxygen transfer and reduce energy cost)
- Premium High Efficiency (PHE) motors (to replace existing transfer motor/pump system)

WWTP System Modifications:


- Excavation of existing lagoon cells, with

lagoon cell lining to prevent leaching of contaminants to groundwater

- Installation of micro-bubble diffused aeration equipment
- Installation of electro-coagulation (EC) equipment

Operational Changes to Achieve Goal of Permit Compliance:

- Grow customized microbes and inoculate modified lagoon cells to optimize biological removal/treatment of wastewater
- EWQMS related software and SCADA modifications, sensors and wiring to enable optimization of WWTP scheduling (aerators/pumping) and monitoring (power consumption, flows, water quality parameters/sensors)
- Operation of EC equipment to optimize contaminant removal

To learn more about EWQMS, and the Round Mountain W&SD Electrocoagulation Pilot Project, and the viability of 'Proving an Alternative to 'Mechanical' and 'Evaporative Lagoons', contact Kelvin (Kelly) Stone, kstone@crwa.net 

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