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ADMITTED IN KY AND WV

June 22, 2023

Public Service Commission
P.O. Box 615
Frankfort, KY 40602

RE: Martin County Water District
PSC Case No. 2020-00154

To Whom It May Concern:

Enclosed please find Martin County Water District's Notice of Filing the information packet for the June 22, 2023 Special Board meeting.

Thank you for your attention to this matter.

Very truly yours,

BRIAN CUMBO

BC/ld

Enclosure

cc: Martin County Water District
Hon. Mary Varson Cromer

COMMONWEALTH OF KENTUCKY
BEFORE THE PUBLIC SERVICE COMMISSION

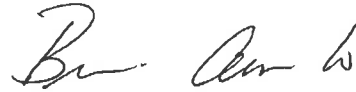
In the Matter of:

ELECTRONIC MARTIN COUNTY WATER)
DISTRICT MANAGEMENT AND OPERATION)
MONITORING PURSUANT TO KRS 278.250)

CASE NO. 2020-00154

NOTICE OF FILING

Comes the Martin County Water District, by counsel, and hereby gives Notice of Filing of the attached information packet for the Martin District Special Board meeting scheduled for June 22, 2023.



BRIAN CUMBO
COUNSEL FOR MARTIN COUNTY
WATER DISTRICT
P.O. BOX 1844
INEZ, KY 41224
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CERTIFICATE OF SERVICE

This will certify that a true and correct copy of the foregoing was served via electronic filing on this the 22nd day of June, 2023, to the following:

Public Service Commission
ATTN: Nancy Vinsel
P.O. Box 615
Frankfort, KY 40602

Hon. Mary Varson Cromer
Appalachian Citizens' Law Center, Inc.
317 Main Street
Whitesburg, KY 41858

A handwritten signature in cursive script, appearing to read "Brian Cumbo".

BRIAN CUMBO

Martin County Water District
387 E. Main St.

Phone (606) 298-3885 Inez, Kentucky 41224
Special Meeting, Thursday, June 22, 2023 – 6:00 p.m.
Martin County Government Center (2nd Floor)

- 1) Call the meeting to order
- 2) Review and Consideration to Approve Minutes
- 3) Review and Consideration of Financial Reports
 - A. Review and Consideration to Approve Treasurer's Report
 - B. Review and Consideration to Approve Other Financials
- 4) Review and Consideration to Approve Bills
- 5) Legal
 - A. Any Issues for Discussion with Board Attorney
- 6) Operations
 - A. Alliance Operations Report
 - B. Water Loss Report
 - C. Leak Adjustments
- 7) Capital Projects Report
 - A. Project Updates
 - B. 5 Year CIP
- 8) Other Old Business
- 9) Other New Business
- 10) Consider Motion to Convene into Closed Executive Session
- 11) Consider Motion to Close Executive Session
- 12) Introduction of Guest-Five (5) Minute Maximum
- 13) Adjourn

Notice is hereby given that, subject to a motion duly made and adopted, the Board of Directors may hold an Executive Session subject to the laws of Kentucky.

**Martin County Water District
Regular Meeting of the Board of Directors
May 23, 2023, Meeting Minutes**

Presiding: James Kerr, Chairman

Present: Directors: Greg Crum, BJ Slone, Nina McCoy
Staff: Brian Cumbo (Attorney), Craig Miller (GM), Tyler Hall, (LM),
Cassandra Moore

Guests:

The Regular Meeting of the Martin County Water District was held on May 23, 2023, at the Martin County Government Center, at 42 East Main St (2nd Floor), Inez, Kentucky 41224. Mr. Kerr called the meeting to order at 6:00 p.m.

Mr. Kerr called for review of the April 25, 2023, Regular Board Meeting minutes.

- Mr. Slone motioned to accept the April 25, 2023 minutes
- Mr. Crum seconded
- All ayes
- Motion carried

Mr. Kerr requested discussion of the review and consideration of the Financial Reports.

- Mr. Miller detailed each report as submitted
- Mr. Crum motioned to approve the Treasurer's report submitted
- Mr. Slone seconded
- All ayes
- Motion carried
- Mr. Miller presented Other Financials
- Mr. Slone motioned to approve Other Financials
- Mrs. McCoy seconded
- All ayes
- Motion carried

Mr. Kerr called for review and consideration to Approve Bills.

- Mr. Slone motioned to approve the List of Bills
- Mr. Crum seconded
- All ayes

- Motion carried

Mr. Kerr asked if there were any legal issues to discuss.

- No legal issues to discuss this meeting
- Mr. Kerr asked Mr. Cumbo if there was any information about Xylem?
- Mr. Cumbo stated he was waiting for a re-scheduled meeting with the engineering company at the moment

Mr. Kerr called for review of the Operations Report.

- Started a 6-month coupon study to better evaluate effluent water characteristics and treatment efficiency to help determine if treatment adjustments are needed
- Raw water intake VFD has issues within the drive in the AC/DC power converter. Inspections are being performed on the VFD to determine the cause of the issue and formulate a plan for repair. The ethernet cable is still not working correctly
- Generator transfer switch was delivered to the WTP along with a generator to temporarily run the plant while the permanent generator is being hooked up. We are waiting on Southern Flow at the end of month
- Revised main line locations on GIS for Sawmill Hollow and Venters Branch
- Repaired a leak on the fourteen (14) inch transmission line near the WTP. The issue was caused by a blown gasket on a Hymax coupling due to the line being in an extreme bind. However, the tanks stayed full the entire time
- Mr. Kerr mentioned the water being out on New Rt. Three (3) one day stating that he understood that the system has a lot of nineties (90). Staff put in forty-fives (45) to help straighten the line out
- Mrs. McCoy stated she got an alert when apparently staff was fixing something at the Inez Elementary School, and she seen where some people said they were without water. Did we receive calls about people being without water?
- Mr. Miller advised that staff had to shut down a portion of Coldwater to isolate the area staff was working on. Same issue as New Rt. Three (3), where they will need to fix the valve at that location. It doesn't work at the moment
- Mrs. McCoy asked about a boil water advisory
- Mr. Miller advised it didn't meet our guidelines for needing one, so that's why one wasn't issued
- Mrs. McCoy asked if the Board has determined the protocol for boil water advisories?
- Mr. Kerr advised that it is the same legal guidelines issued by the State and DOW

Mr. Miller presented an update of the water loss report.

- Water loss was reported at **62.94%** for the month of April 2023
- Turkey water loss percent is at forty-four (44) and holding steady. It's the best it's ever been according to WTP Supervisor

- Production of forty-six thousand and eighteen (46,018) is the lowest Mr. Miller has seen in the three (3) years he's been here
- The goal for water loss is to take each section or zone one at a time and work it down

Mr. Miller presented the Board with the May Leak Adjustments.

- Mr. Slone motioned to approve the April Leak Adjustments
- Mrs. McCoy seconded
- All ayes
- Motion carried

Mr. Miller presented an update on the capital projects report.

- Mr. Miller mentioned the transfer switch at the WTP. There was some difficulty getting the welder out to finish the welding. He finally came out and should have one more trip to finalize the clarifier if all goes as planned. Should hopefully be a few weeks
- The Collins Creek plans have had some adjustments made to valve locations
- The Otto Brown Station and line relocation plans for 645 have had discussions about where current lines are and what we need to do in certain locations to make some determinations for line sizes needed
- Mrs. McCoy asked how long will the project take?
- Mr. Miller advised that the money is already available, but we have to get the plans complete and go through NEPA. This could take three (3) months to a year, but were hoping for the three (3) months

Mr. Kerr inquired if there was any Other Old Business to discuss.

Mr. Kerr inquired if there was any Other New Business to discuss.

- Mr. Miller spoke about the VFD at the 40 East Booster Station
- Staff thought the VFD was still under warranty, but found out it wasn't
- Staff got quotes from multiple vendors
- Service Pump & Supply quoted fifty three thousand three hundred sixty-two dollars (\$5,362) with a six (6) to eight (8) week anticipated delivery date, DEQ Controls quoted thirty seven hundred (\$3,700) no delivery date because they have it in stock so it could be shipped asap, CITCO quoted twelve thousand one hundred ninety-five (\$12,195) no delivery date because they already have it in stock so it could be shipped asap, and USBPT quoted seven thousand one hundred ninety-nine (\$7,199) with six (6) to eight (8) week anticipated delivery date
- If the Board agrees, staff recommends purchasing the WEG drive through DEQ Controls considering the cost savings associated with the purchase

- Mrs. McCoy asked why we thought the Toshiba was still under warranty?
- Mr. Miller advised it wasn't very old, it was eighteen (18) maybe nineteen (19) months old, but the warranty was only for twelve (12) months
- Mr. Miller also advised staff was going to also be installing surge protection before installing
- Mr. Slone motioned to approve DEQ Controls WEG 88/60HP for three thousand seven hundred dollars (\$3,700) with no anticipated delivery date because the item should be in stock for asap delivery
- Mr. Crum seconded
- All ayes
- Motion carried
- Mr. Kerr advised that there was one item not on the agenda and it was Eric Ratliff from Big Sandy ADD
- Eric Ratliff stated that earlier this month they had a meeting about the Raw Water Intake, forty (40) East Pump Station, and forty (40) W Pump Station standby generator project. He stated that this project will have ninety (90) percent the cost paid for by the federal government. Four (4) point eight (8) percent paid for by the state and the other five (5) point two (2) percent being paid by local.
- Mr. Ratliff advised that the District has been awarded this and all he needed was the Boards permission for Mr. Kerr to sign the Engineering Contract for Bell Engineering to proceed with the design of the project and the contract with Big Sandy ADD
- Mr. Kerr mentioned to the Board that this is a reimbursement grant, which means we will have to spend the money and then we will be reimbursed. With that being said, the district may reach out to First State Bank and James Ayers about possibly getting a small note and pay it off. It would be done in small increments
- Mr. Slone motioned the approval of Mr. Kerr signing the contract
- Mr. Crum seconded
- All ayes
- Motion carried

Executive session not required.

Mr. Kerr inquired if there were any guest requesting to speak.

Mr. Kerr requested a motion to adjourn.

- Mr. Slone motioned to adjourn meeting at 6:35 p.m.
- Mr. Crum seconded
- All ayes
- Motion Carried

Minutes approved this _____ day of _____, 2023.

James Kerr, Chairman

Cassandra Moore, District Clerk

Martin County Water District
Balance Sheet
May 31, 2023

5/31/23

ASSETS

CURRENT ASSETS

Checking Account - Operations	\$	37,769.52
Revenue Fund - EFT		2,737.28
Debt Service Surcharge Fund		17,735.78
Management Infrastructure Surcharge Fund		1,000.07
Security Deposits		91,490.29
Cash on Hand		900.00
Total Cash		151,632.94
Accounts Receivable		334,952.38
Allowance for Doubtful Accounts		(50,341.24)
Unbilled Accounts Receivable		80,438.00
Inventory		2,948.14
Prepaid Expenses		9,158.63
Total Current Assets		528,788.85

PROPERTY, PLANT, & EQUIPMENT

Land	214,713.83
Water Supply & Distribution System	28,419,953.93
Buildings	500,263.89
Equipment & Furniture	6,340,341.06
Vehicles	69,420.45
Leased Assets	33,934.71
Less: Accumulated Amortization - ROU leased asset	(13,416.06)
Less: Accumulated Depreciation	(18,734,283.40)
Net Property, Plant, & Equipment	16,830,928.41

RESTRICTED CASH

Grant Fund	63.07
Sinking Fund - RD	5,209.38
Regions Sinking Fund	61,383.75
KIA Sinking Fund	6,271.42
KACO Sinking Fund	1,996.28
Depreciation Fund	1,022.34
Cost of Issuance Fund 2022	2,098.00
Certificate Fund - 2022 Debt Svc	37,503.09
Revenue Fund - 2022	3,442.96
Accrued Interest Receivable	377.00
Total Restricted Cash	119,367.29

Total Assets **\$ 17,479,084.55**

Martin County Water District
Balance Sheet
May 31, 2023

5/31/23

LIABILITIES AND DISTRICT'S EQUITY

CURRENT LIABILITIES

Accounts Payable	\$	41,329.28
Sales Tax Payable		2,076.86
School Tax Payable		6,372.44
Long Term Debt-Current		54,845.14
Accrued Interest Payable		36,595.94
Customer Deposits		92,864.43
Total Current Liabilities		234,084.09

LONG-TERM DEBT

Lease Liability - Rent		21,464.48
Note Payable - KIA		258,903.08
Lease Payable - KACO		26,221.96
Bonds Payable - 2015 E Current Refunding		1,585,000.00
Bonds Premium - 2015 E, Net of A/Amort		16,293.37
Bonds Payable - 2022 B		1,110,000.00
Bonds Premium - 2022 B, Net of A/Amort		2,634.51
Less Current Portion of L-Term Debt		(54,845.14)
Other Inflow Resources - Pension		372,879.00
Total Long-Term Debt		3,338,551.26

Total Liabilities

3,572,635.35

DISTRICT'S EQUITY

Retained Earnings (Deficit)		14,091,210.57
YTD Net Income		(184,761.37)
Total District's Equity		13,906,449.20

Total Liabilities and District's Equity

\$ 17,479,084.55

Martin County Water District
Statement of Revenues and Expenses
Fiscal Year Jan 01 to Dec 31
For the Month Ending
Actual vs Budget

<u>May, 2023</u>			<u>YTD</u>		<u>Annual Budget</u>
<u>Actual</u>	<u>Budget</u>		<u>Actual</u>	<u>Budget</u>	<u>Budget</u>
		Operating Revenues			
\$ 176,121	\$ 175,833	Water Sales - Residential	\$ 871,463	\$ 879,165	\$ 2,110,000
24,274	29,167	Water Sales - Commercial	143,981	145,835	350,000
9,281	10,000	Water Sales - Public Authorities	51,072	50,000	120,000
-	4	Bulk Water Sales	165	20	50
-	2,437	Connection Fees - Tap	11,075	12,185	29,246
5,642	4,583	Late Charge Fees	28,894	22,915	55,000
3,404	2,650	Reconnect/Meter Sets/Other Fees	9,777	13,250	31,801
8,722	8,917	Debt Service Surcharge	43,662	44,585	107,000
15,654	15,839	Management Infrastructure Surcharge	78,367	79,195	190,070
<u>243,099</u>	<u>249,430</u>	Total Operating Revenues	<u>1,238,456</u>	<u>1,247,150</u>	<u>2,993,167</u>
		Operating Expenses			
-	7,500	Water Purchased	12,092	37,500	90,000
168,507	168,507	Management & Operations Contract	842,535	842,535	2,022,084
19,036	27,917	Utilities	99,519	139,585	335,000
1,729	2,500	Insurance	10,544	12,500	30,000
8,719	5,000	Repairs & Maintenance	55,384	25,000	60,000
44	250	Outside Services	228	1,250	3,000
1,525	800	Legal Expenses	4,338	4,000	9,600
-	-	Accounting/Audit	7,985	8,000	8,000
4,167	4,167	Bad Debts	20,833	20,835	50,000
-	-	Bond Trustee Fees	900	500	500
385	270	Dues	1,925	1,350	3,235
294	228	Office Expense	1,721	1,140	2,732
-	833	Rent Expense	25	4,165	10,000
273	125	KY 811 Services	762	625	1,500
81	54	Miscellaneous Expenses	274	270	652
10	4	Customer Deposit Interest Expense	27	20	53
<u>204,770</u>	<u>218,155</u>	Total Operating Expenses	<u>1,059,094</u>	<u>1,099,275</u>	<u>2,626,356</u>
<u>38,328</u>	<u>31,275</u>	Net Income B/4 Other Income (Expenses)	<u>179,363</u>	<u>147,875</u>	<u>366,811</u>
		Other Income (Expenses)			
-	-	Gain (Loss) on Sale of Assets	1,645	-	-
4,128	-	Capital Contributions	4,128	-	-
344	-	Interest Income	1,806	-	-
(8,950)	(8,333)	Interest Expense	(44,717)	(41,665)	(100,000)
(397)	63	Amortization	(1,986)	315	753
(65,000)	(65,000)	Depreciation	(325,000)	(325,000)	(780,000)
<u>(69,875)</u>	<u>(73,270)</u>	Total Other Income (Expenses)	<u>(364,124)</u>	<u>(366,350)</u>	<u>(879,247)</u>
<u>\$ (31,547)</u>	<u>\$ (41,995)</u>	Net Income (Loss)	<u>\$ (184,761)</u>	<u>\$ (218,475)</u>	<u>\$ (512,436)</u>

**Martin County Water District
Inez, KY**

Treasury Report

Billing Charges For the Month of:	May-23	
Water Revenue		\$ 176,120.91
Water Revenue-Commercial		24,274.49
Water Revenue-Commercial Exempt		9,281.35
Late Charges		5,642.12
Sales Taxes		1,920.86
Debt Service Surcharge		8,722.31
School Tax		6,389.23
Management Infrastructure Surcharge		15,653.68
Returned Check		1,656.98
Interest on Customer Deposits		(10.17)
Connection Fees		-
Other Miscellaneous Fees		3,403.85
Deposits Applied		(1,260.00)
Refund Checks Paid		185.47
Total Billing Charges		\$ 251,981.08
		<hr/>
Gallons Billed		12,096,180
		<hr/>
Customers Billed		3,361
		<hr/>

Accounts Receivable	May-23	
Beginning Balance		336,555.62
Billing Charges		251,981.08
Bad Debt (Write Offs) Recoveries		515.03
Accounts Receivable Collections		(254,232.96)
End of Month Accounts Receivable		334,818.77
		<hr/>

Operations Account		
Beginning Balance		\$ 26,137.45
Deposits		
Accounts Receivable Collections		254,232.96
Accounts Receivable Collections - Pmts in EFT Revenue Account		(113,322.63)
Sewer Billing Collections in Water Bank Acct - Due to MCS		70,583.85
Customer Deposits Received		3,015.00
Voided Check - CITCO		4,127.98
Transfers from Other District Accts		128,000.00
Total Deposits		346,637.16
Disbursements:		
Checks Written		(186,558.63)
Pmts made to Sanitation for A/R Collections		(70,804.32)
Transfers to Other District Accts		(49,952.50)
Auto Drafted Utilities		(17,889.98)
Sales and School Tax Payments		(9,138.03)
Returned Checks		(613.63)
Bank Fees		(48.00)
End of Month Balance		\$ 37,769.52
		<hr/>

Cash Receipts Collected To Date in:	Jun-23	121,821.08
Bills Submitted for Payment in:	Jun-23	(221,044.18)
Available Balance	3A-4	(61,453.58)
		<hr/>

**Martin County Water District
Inez, KY
Treasury Report
Summary of Cash & Investments
May 31, 2023**

Bank Account	Beginning Balance	Deposits	Interest Earned, Net of Fees	Payments	Ending Balance
Operations Account	\$ 26,137.45	346,637.16	-	(335,005.09)	\$ 37,769.52
Revenue EFT Account	10,323.45	113,322.63	-	(120,908.80)	2,737.28
Debt Service Surcharge	48,472.37	14,263.08	0.33	(45,000.00)	17,735.78
Management Infrastructure Surcharge	1,000.06	16,624.42	0.07	(16,624.48)	1,000.07
Security Deposits	98,439.60	1,265.00	4.16	(8,218.47)	91,490.29
Cash on Hand	900.00	-	-	-	900.00
Total Unrestricted Cash	185,272.93	492,112.29	4.56	(525,756.84)	151,632.94
Restricted Cash					
ARC Grant	63.07		-	-	63.07
Rockhouse Project	4,859.69	10,800.00	-	(10,450.31)	5,209.38
Regions Bank-KY 2015E Martin County	50,764.03	10,450.31	169.41		61,383.75
KIA Bond & Interest	6,135.90	5,800.00	0.07	(5,664.55)	6,271.42
KY Assoc of Counties Leasing Trust	953.46	1,200.00	0.03	(157.21)	1,996.28
Depreciation Reserve	1,022.32	-	0.02	-	1,022.34
Cost of Issuance Fund 2022	2,098.00		-	-	2,098.00
Certificate Fund - 2022 Debt Svc	37,358.64		144.45		37,503.09
Revenue Fund - 2022	3,429.70	-	13.26	-	3,442.96
Total Restricted Cash	106,684.81	28,250.31	327.24	(16,272.07)	118,990.29
Total Cash & Investments	\$ 291,957.74	520,362.60	331.80	(542,028.91)	\$ 270,623.23

**Martin County Water District
Billing Summary**

Date	Billed		Gallons (000'S)	Billed # of Customers	Payments Received
	Revenue	YTD Total			
May-23	213,098	1,090,906	12,096	3,361	254,233
Apr-23	224,371	877,808	13,427	3,346	219,648
Mar-23	193,481	653,437	9,299	3,363	249,444
Feb-23	219,471	459,955	12,515	3,370	257,299
Jan-23	240,484	240,484	14,906	3,383	296,876
Dec-22	217,251	2,595,436	12,429	3,374	226,327
Nov-22	213,516	2,378,186	12,064	3,389	232,620
Oct-22	199,884	2,164,670	10,420	3,400	256,624
Sep-22	232,922	1,964,786	13,890	3,417	262,588
Aug-22	217,328	1,731,864	12,413	3,402	263,138
Jul-22	226,961	1,514,536	13,381	3,410	254,075
Jun-22	219,810	1,287,575	12,580	3,409	255,445
May-22	227,120	1,067,765	13,264	3,408	228,491

Martin County Water District, Inez KY
List of Bills for Consideration
22-Jun-23

<u>Vendor</u>	<u>Description</u>	<u>Amount</u>
Operations Account		
1 AEP	Electric (26 bills) Estimated	\$ 16,309.84
2 Big Sandy RECC	Electric (9 bills) Estimated	\$ 2,538.70
3 Paintsville Utilities	Electric for token (4/03/22 to 5/03/23) Estimated	\$ 45.97
4 Martin County Public Library	Rent (July)	\$ 2,919.40
5 Martin County Water District	Sanitation (May)	\$ 141.67
6 Sales tax	5/2023 (estimated)	\$ 1,888.70
7 School tax	5/2023 (estimated)	\$ 6,392.95
8 Alliance Water Resources	6/1/23-6/15/23 O&M services	\$ 84,253.50
9 Alliance Water Resources	6/16/23-6/30/23 O&M services	\$ 84,253.50
10 Alliance Water Resources	Insurance Policy Installment (6/10)	\$ 1,156.77
11 Management Inf. Surcharge	Estimated (actual collected will be paid)	\$ 9,290.31
12 Debt Service Surcharge	Estimated (actual collected will be paid)	\$ 10,248.07
13 Kentucky Underground	811 Services (May)	\$ 273.00
14 Brian Cumbo	Legal Fees	\$ 1,525.00
15 Estech Systems	Phone System (May)	\$ 219.16
16 NexBillPay	Fees (May)	\$ 75.00
17 Consolidated Pipe	Parts	\$ 436.52
18 Consolidated Pipe	Parts	\$ 225.00
19 Consolidated Pipe	Parts	\$ 117.00
20 Consolidated Pipe	Parts	\$ 2,032.00
21 Consolidated Pipe	Parts	\$ 884.60
22 Consolidated Pipe	Parts	\$ 2,565.00
23 Consolidated Pipe	Parts	\$ 429.58
24 Consolidated Pipe	Parts	\$ 313.09
25 Consolidated Pipe	Parts	\$ 177.92
26 Consolidated Pipe	Parts	\$ 315.37
27 Consolidated Pipe	Parts	\$ 635.75
28 Consolidated Pipe	Parts	\$ 66.40
29 Consolidated Pipe	Parts	\$ 706.10
TOTAL		\$ 230,435.87

Operations Account - Debt Service Funding

Transfer Amounts

1 KIA	Monthly funding for KIA Bond/Loan	\$ 5,800.00
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Martin County Water District, Inez KY
List of Bills for Consideration
22-Jun-23

<u>Vendor</u>	<u>Description</u>	<u>Amount</u>
2 KACo	Monthly funding for lease payment	\$ 1,200.00
3 KRW/Regions Bank	Monthly funding for loan	\$ 10,800.00
TOTAL		\$ 17,800.00
 TOTAL OPERATIONS		 \$ 248,235.87
 Security Deposit Account		
 Customer		
1 Mitchell Blackburn	Deposit refund due to customer	\$ 56.18
2 Katie Hamilton	Deposit refund due to customer	\$ 52.60
3 Jennifer Johnson	Deposit refund due to customer	\$ 30.08
4 William Jarrell	Deposit refund due to customer	\$ 21.72
TOTAL		\$ 160.58

OUR
MISSION

We partner with communities to deliver the finest water and wastewater services available at a competitive price. We are committed to keeping water safe and clean while serving people and taking care of communities with improved technical operations, careful management, and financial oversight, and ensured regulatory compliance.

Alliance Water Resources, Inc.

**206 S. Keene
St. Columbia,
MO 65201**

(573) 874-8080

May 2023

Administrative

Staff approved and posted the yearly CCR to the website and distributed to the appropriate locations.

Water Treatment

WTP Operators performed routine backwashing of filters on Clarifiers 1 & 2 to ensure proper filtration. WTP operators also collected bi-weekly and special bacteriological and fluoride distribution system samples for system monitoring and compliance.

Performed routine maintenance on High Service Pump 2 and both Turkey BPS pumps at WTP.

Hauled over 20 loads of sludge from backwash decant pit for disposal.

DEQ Controls removed the defunct VFD for High Service Pump 1 and mounted the new WEG VFD in the control cabinet. DEQ is planning to finish electrical hookups on the new VFD the last week of June.

Pace Construction and Leger Electric installed the automatic transfer switch for the Generac generator at the WTP. Once Clarifier 1 repairs are complete, Southern Flow, Inc. will finish generator set-up.

Two outside contractors inspected the raw water intake VFD and were unable to diagnose possible issues, likely indicating major internal issues.

New pressure-rated piping was installed in the chemical feed room to deliver chlorine to each filtration unit.

Pace Construction continued welding work in the underdrain and center basin of Clarifier 1 to repair additional leaks.

WTP Operators Garrett McKinney and Joshua Vaughan passed the Sacramento State Water Treatment Plant Operator Vol. 1 course.

Collected quarterly Disinfection Byproduct Samples from points throughout the distribution system.



Installed new pH probe for the benchtop pH and temperature meter to ensure accurate readings for reporting and process control.

Ordered Stenner chemical pump motor repairs kits to repair unused pumps and save money on replacing entire units.

Adjusted the belt drive on the mechanical flash mixer at the WTP to ensure belt longevity and proper coagulation in the initial stage of the treatment process.

Distribution:

Uncovered buried valves at the old Muncy Pit on Blacklog Rd that allows crews to isolate Buck Creek and Rockcastle tanks.

Ordered replacement 60 HP VFD for 40 East BPS. When the VFD is installed, a Surge Protection Device will be installed to mitigate possible electrical issues due to inconsistent incoming power.

Mowed both sides of the dam and removed brush at the Curtis Crum Reservoir.

Mowed grass at BPS, master meter, and PRV sites.

Justin Staton and Steven Jude passed the Distribution Class 3 license exam.

Cleaned and organized all inventory in the distribution storage shed and removed unneeded items for easier access and inventory tracking.

Replaced nonfunctional 6" gate valve that will allow crews to isolate Inez Elementary without shutting down all of Coldwater Rd.

Performed routine maintenance on the distribution Takeuchi excavator.

Completed over 100 line locate requests, disconnects and reconnects, routine service orders such as shut-off and setter replacement, and site remediations.

Uncovered a buried air relief valve at the highest elevation of the raw water transmission line to the reservoir and tested to ensure there were no air lock issues on the transmission line.

Repaired the following main and service line leaks: 8" on Davella Rd, 2" on Columbus Preece Rd, 8" on Blacklog Rd, 3" on Old Rt. 3, 4" on Turkey Creek Rd, 1 ½" near Riverside Apts, 2" on Coldwater Rd and 15 ¾" service line leaks.

Greased and changed oil in the Davella booster station pump.

Calibrated new Hach Colorimeter to be used by the Leak Detection Team. This will allow the Leak Detection crew to test for free and total chlorine while in the field instead of taking individual samples to the WTP.



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Set-up 600 HP diesel-driven, vacuum assisted pump to feed the Curtis Crum Reservoir from the Tug River. The pump is rated to deliver 2,300 – 2,700 GPM to the reservoir.

Safety

The monthly safety meeting was held on May 2nd and covered Electrical Safety.

Training

Project Updates

SOURCE	AMOUNT	PROJECTS
AML Pilot Nexus Grant-2017	\$3,450,000	A, B, C, D
COE 531 (25% Match)	\$1,869,718	B, C
ARC Grant	\$1,200,000	F
AML Pilot Nexus Grant-2018	\$2,000,000	I
Total Grant	\$8,519,718	

Regulatory

The Martin County Water Treatment Plant performs operational water quality monitoring to ensure compliance with all state and federal safe drinking water act requirements, including chlorine, fluoride, iron, pH, manganese, solids, turbidity, and bacteriological analysis.

Water Plant Operation

Water Pumped May	
Total Water Production (gallons)	47,131,000
Total Water Metered/Billed (gallons)	14,714,000
Other Water Used (gallons)	429,000
Average Daily Flow (Million Gallons per Day)	1.520 MGD
Maximum Daily Flow	1.621 MGD
Fluoride Used (lbs.)	438
Chlorine Used (lbs.)	1,389.3
Lab Tests	3,801

Water Quality Analysis

Test	Routine	Special	Repeat
Bacteriological	10 (Pass)	6 (Pass)	0
		Reported	Minimum Limit
Fluoride Plant Sample	31	0.72 mg/l Average	0.6 mg/l
Chlorine Distribution Sample	Total- 34 Free- 34	Low Readings Total - 0.73 mg/L Free - 0.78 mg/L	0.2 mg/l

Customer Service Request and Work Orders

Meter Reads	3323
Meter Sets	30
Turn offs-Close account	25
Taps	0
Meter Changes	17
Disconnects for Non-payment	43
Boil Notices	3
Line Locates	181
Water Leaks/Breaks	44
Other/Investigates	130

Water Main Breaks & Service Lines

Date	Location	Loss (Gallons)
5/23/23	Haney Ln	787,830
5/31/23	Calf Creek	503,457
5/24/23	Beatrice Loop	664,480
5/30/23	Whitt Ln	1,118,792
5/25/23	Rockcastle Rd	2,542,654
5/30/23	Turkey Crk Rd	508,531
5/18/23	Tomahawk Rd	2,542,654
5/10/23	Mountain Enterprise Dr	5,872,008
5/11/23	Mudford Rd	1,534,551
5/9/23	Mary Dr	393,000
5/9/23	Harless Dr	2,348,855
5/9/23	Justin Dr	551,481

Repair Expenses Ending April 2023

Expended	Actual YTD	Annual Budget	% Budget / Line Item
Bldg. & Grounds Maintenance	\$0	\$5,000	0%
Vehicle Maintenance	\$8,796	\$20,000	44%
Water Plant Maintenance	\$912	\$10,000	9%
Distribution System Maintenance	\$60,453	\$50,000	120%
Water Meter Maintenance	\$4,670	\$10,000	46%
Street Maintenance	\$38	\$3,141	1%
Totals	\$74,869	\$98,141	76%

Chemical Expenses Ending April 2023

Expended	Actual YTD	Annual Budget	% Budget / Line Item
Sodium Hydroxide	\$4,660	\$11,000	42%
Polymer	\$781	\$15,000	5%
Alum (DELPAC)	\$14,658	\$30,000	48%
Chlorine	\$14,386	\$20,000	71%
Permanganate	\$742	\$19,000	4%
Fluoride	\$9,297	\$7,000	132%
Chemicals Other - Water	\$3,221	\$8,000	40%
Totals	\$47,745	\$110,000	43%

Notes:

- 1) Building & Grounds Maintenance
 - a. \$0.00

- 2) Vehicle Maintenance
 - a. Advance Auto \$20.54
 - b. Oil Changers \$109.14
 - c. Oil Changers \$46.10
 - d. Advance Auto \$10.59
 - e. Advance Auto \$4.12
 - f. Advance Auto \$55.08
 - g. Comdata Corp. \$0.98
 - h. Oil Changers \$61.25
 - i. Oil Changers \$54.19
 - j. Capital Tire \$391.57
 - k. Advance Auto \$21.19
 - l. Advance Auto \$15.14
 - m. O'Reilly Auto \$224.32

- 3) Water Plant Maintenance
 - a. Evans Hardware \$13.97

- 4) Well Maintenance
 - a. \$0.00

- 5) Distribution System Maintenance
 - a. CITCO Water \$594.52
 - b. Kirk Excavating \$500.00
 - c. Vernon Manufacturing \$775.00
 - d. Jabo Supply \$621.13
 - e. Evans Hardware \$52.99
 - f. Consolidated Supply \$1,110.06
 - g. Consolidated Supply \$1,758.67
 - h. Consolidated Supply \$663.75
 - i. Consolidated Supply \$1,158.20
 - j. Consolidated Supply \$183.07
 - k. Family Dollar \$10.44

- 6) Meter Maintenance
 - a. Consolidated Supply \$1,042.21
 - b. Consolidated Supply \$679.78
 - c. Consolidated Supply \$382.67

- 7) Sodium Bisulfite
 - a. CITCO Water \$226.93

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- 8) Sodium Hydroxide
 - a. Brenntag Mid-South \$2,897.36

- 9) Lime/Caustic Soda
 - a. \$0.00

- 10) Polymer
 - a. Brenntag Mid-South \$781.29

- 11) Alum
 - a. CITCO Water \$3,284.63
 - b. CITCO Water \$3,284.63

- 12) Chlorine
 - a. CITCO Water \$2,222.93
 - b. CITCO Water \$3,334.39

- 13) Permanganate
 - a. \$0.00

- 14) Fluoride
 - a. CITCO Water \$1,449.57

- 15) Chemicals Other – Water
 - a. \$0.00

PUBLIC SERVICE COMMISSION

Monthly Water Loss Report

Water Utility: Martin County Water District

For the Month of: May Year: 2023

LINE #	ITEM	GALLONS (Omit 000's)
1	WATER PRODUCED AND PURCHASED	
2	Water Produced	47,131
3	Water Purchased	
4	TOTAL PRODUCED AND PURCHASED	47,131
5		
6	WATER SALES	
7	Residential	9,275
8	Commercial	2,821
9	Industrial	
10	Bulk Loading Stations	
11	Wholesale	
12	Public Authorities	2,618
13	Other Sales (explain)	
14	TOTAL WATER SALES	14,714
15		
16	OTHER WATER USED	
17	Utility and/or Water Treatment Plant	429
18	Wastewater Plant	
19	System Flushing	
20	Fire Department	-
21	Other Usage (explain)	
22	TOTAL OTHER WATER USED	429
23		
24	WATER LOSS	
25	Tank Overflows	
26	Line Breaks	19,638
27	Line Leaks	12,350
28	Excavation Damages	
29	Theft	
30	Other Loss	
31	TOTAL WATER LOSS	31,988
32		
33	Note: Line 14 + Line 22 + Line 31 MUST Equal Line 4	
34		
35	WATER LOSS PERCENTAGE	
36	(Line 31 divided by Line 4)	67.87%

MARTIN COUNTY WATER & SANITATION DISTRICT
LEAK ADJUSTMENT REQUESTS
6/16/2023

replaced hot water pop off valve

BILLED GALLONS/COST	490,670	1894.95
AVG GALLONS/BILL	6,000	83.38
LEAK GALLONS/PURCH COST	484,670	969.34
PAY (avg+leak cost)		1052.72
WRITE OFF (billed-avg-purch cost)		842.23
LATE PENALTIES TO ADJ		0.00

842.23

replaced seal in toilet tank

BILLED GALLONS/COST	6,480	88.42
BILLED GALLONS/COST	8,230	106.77
AVG GALLONS/BILL	4,000	62.40
LEAK GALLONS/PURCH COST	2,480	4.96
LEAK GALLONS/PURCH COST	4,230	8.46
PAY (avg+leak cost)		67.36
WRITE OFF (billed-avg-purch cost)		119.37
LATE PENALTIES TO ADJ		0.00

119.37

replaced kitchen faucet

BILLED GALLONS/COST	30,290	338.18
BILLED GALLONS/COST	21,200	242.83
AVG GALLONS/BILL	3,000	51.91
LEAK GALLONS/PURCH COST	27,290	54.58
LEAK GALLONS/PURCH COST	18,200	36.40
PAY (avg+leak cost)		106.49
WRITE OFF (billed-avg-purch cost)		438.12
LATE PENALTIES TO ADJ		0.00
SEWER	30,290	451.97
SEWER	21,200	317.35
AVG SEWER/BILL	3,000	47.81
LEAK SWR ADJ	27,290	404.16
LEAK SWR ADJ	18,200	269.54
SWR PAY (AVG-LEAK)		95.62
SWR WRITE OFF		578.08
SWR PENALTIES TO ADJ		0.00

1,016.20

leak was on MCWD side of setter

BILLED GALLONS/COST	9,850	119.65
AVG GALLONS/BILL	2,000	41.42
LEAK GALLONS/PURCH COST	7,850	15.70
PAY (avg+leak cost)		57.12

WRITE OFF (billed-avg-purch cost)		62.53	
LATE PENALTIES TO ADJ		0.00	62.53

Pool fill up

SEWER	6,920	327.27	
SWR PAY (AVG-LEAK)	3000	52.81	
SWR WRITE OFF		274.46	274.46

repaired broken line between meter and home

BILLED GALLONS/COST	14,040	167.72	
AVG GALLONS/BILL	5,000	72.89	
LEAK GALLONS/PURCH COST	9,040	18.08	
PAY (avg+leak cost)		90.97	
WRITE OFF (billed-avg-purch cost)		76.75	
LATE PENALTIES TO ADJ		0.00	76.75

replaced line from meter to home

BILLED GALLONS/COST	17,470	203.70	
BILLED GALLONS/COST	8,850	113.28	
AVG GALLONS/BILL	4,000	62.40	
LEAK GALLONS/PURCH COST	13,470	26.94	
LEAK GALLONS/PURCH COST	4,850	9.70	
PAY (avg+leak cost)		89.34	
WRITE OFF (billed-avg-purch cost)		217.94	
LATE PENALTIES TO ADJ		0.00	217.94

repaired broken line near meter

BILLED GALLONS/COST	4,160	64.08	
BILLED GALLONS/COST	2,820	50.02	
AVG GALLONS/BILL	2,000	41.42	
LEAK GALLONS/PURCH COST	2,160	4.32	
LEAK GALLONS/PURCH COST	820	1.64	
PAY (avg+leak cost)		45.74	
WRITE OFF (billed-avg-purch cost)		66.72	
LATE PENALTIES TO ADJ		0.00	
SEWER	4,160	64.99	
SEWER	2,820	45.14	
AVG SEWER/BILL	2,000	33.00	
LEAK SWR ADJ	2,160	31.99	
LEAK SWR ADJ	820	12.14	
SWR PAY (AVG-LEAK)		66.00	
SWR WRITE OFF		44.13	
SWR PENALTIES TO ADJ		0.00	110.85

Pool fill up

SEWER	19,350	289.95	
SWR PAY (AVG-LEAK)	4000	62.62	

SWR WRITE OFF		227.33
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227.33

repaired leak in bathroom

BILLED GALLONS/COST	17,260	201.50
BILLED GALLONS/COST	25,240	285.21
AVG GALLONS/BILL	7,000	93.87
LEAK GALLONS/PURCH COST	10,260	20.52
LEAK GALLONS/PURCH COST	18,240	36.48
PAY (avg+leak cost)		114.39
WRITE OFF (billed-avg-purch cost)		335.84
LATE PENALTIES TO ADJ		28.52
SEWER	17,260	259.00
SEWER	25,240	377.18
AVG SEWER/BILL	7,000	107.05
LEAK SWR ADJ	10,260	151.95
LEAK SWR ADJ	18,240	270.13
SWR PAY (AVG-LEAK)		214.10
SWR WRITE OFF		422.08
SWR PENALTIES TO ADJ		37.72

757.92

Pool fill up

SEWER	6,660	102.01
SWR PAY (AVG-LEAK)	2000	33.00
SWR WRITE OFF		69.01

69.01

leak was in back of toilet

BILLED GALLONS/COST	10,940	135.20
AVG GALLONS/BILL	2,000	41.42
LEAK GALLONS/PURCH COST	8,940	17.88
PAY (avg+leak cost)		59.30
WRITE OFF (billed-avg-purch cost)		75.90
LATE PENALTIES TO ADJ		0.00

75.90

leak was in back of toilet

BILLED GALLONS/COST	8,670	111.39
AVG GALLONS/BILL	2,000	41.42
LEAK GALLONS/PURCH COST	6,670	13.34
PAY (avg+leak cost)		54.76
WRITE OFF (billed-avg-purch cost)		56.63
LATE PENALTIES TO ADJ		0.00

56.63

repaired toilet

BILLED GALLONS/COST	22,350	254.89
AVG GALLONS/BILL	2,000	41.42
LEAK GALLONS/PURCH COST	20,350	40.70
PAY (avg+leak cost)		82.12
WRITE OFF (billed-avg-purch cost)		172.77

LATE PENALTIES TO ADJ		25.49
SEWER	22,350	334.38
AVG SEWER/BILL	2,000	33.00
LEAK SWR ADJ	20,350	301.38
SWR PAY (AVG-LEAK)		33.00
SWR WRITE OFF		301.38
SWR PENALTIES TO ADJ		33.44

474.15

Pool fill up

SEWER	38,680	576.23
SWR PAY (AVG-LEAK)	2000	33.00
SWR WRITE OFF		543.23

543.23

Pool fill up

SEWER	27,620	412.43
SWR PAY (AVG-LEAK)	4000	62.62
SWR WRITE OFF		349.81

349.81

repaired broken line under home

BILLED GALLONS/COST	24,180	274.09
BILLED GALLONS/COST	7,160	95.55
AVG GALLONS/BILL	4,000	62.40
LEAK GALLONS/PURCH COST	20,180	40.36
LEAK GALLONS/PURCH COST	3,160	6.32
PAY (avg+leak cost)		102.76
WRITE OFF (billed-avg-purch cost)		260.56
LATE PENALTIES TO ADJ		0.00

260.56

repaired broken line near meter

BILLED GALLONS/COST	21,230	243.14
BILLED GALLONS/COST	35,760	395.56
AVG GALLONS/BILL	12,000	146.32
LEAK GALLONS/PURCH COST	9,230	18.46
LEAK GALLONS/PURCH COST	23,760	47.52
PAY (avg+leak cost)		164.78
WRITE OFF (billed-avg-purch cost)		426.40
LATE PENALTIES TO ADJ		39.56

465.96

repaired leak in line near meter

BILLED GALLONS/COST	18,450	213.98
AVG GALLONS/BILL	2,000	41.42
LEAK GALLONS/PURCH COST	16,450	32.90
PAY (avg+leak cost)		74.32
WRITE OFF (billed-avg-purch cost)		139.66
LATE PENALTIES TO ADJ		0.00
SEWER	18,450	276.62
AVG SEWER/BILL	2,000	33.00

LEAK SWR ADJ	16,450	243.62
SWR PAY (AVG-LEAK)		33.00
SWR WRITE OFF		243.62
SWR PENALTIES TO ADJ		0.00

383.28



MEETING AGENDA
PROGRESS MTG #46
MARTIN COUNTY WATER DISTRICT
MARTIN COUNTY, KENTUCKY
 June 13, 2023

LOCATION: Via Teams
TIME: 3:30 PM
Present: Announcement of those Present

SUMMARY OF PROJECT FUNDING:

<u>Source</u>	<u>Amount</u>	<u>Associated Project(s)</u>
AMLER (2017)	\$3,450,000	A,B,C
COE 531 Partnership (25% Match)	\$1,869,718	B,C
ARC Grant	\$1,200,000	D
AMLER (2018)	\$2,000,000	E
FEMA/STATE	\$1,201,000	K
COE 531 Partnership	<u>\$1,500,000</u>	B
TOTAL GRANT	\$11,220,718	

**A. CONTRACT 113-19-02
 RWI&WTP IMPROVEMENTS**

1. The WTP and RWI sites were surveyed.
2. Basins were documented for condition assessment.
3. The Preliminary Engineering Report for the project was completed and distributed.
4. The Phase I Environmental Site Assessment required by the Corps of Engineers was completed and submitted.
5. Vendor proposals for replacement equipment were requested and reviewed.
6. Plans and specifications were developed.
7. Project mapping for NEPA purposes was submitted to AML on February 6, 2020.
8. Project description and Opinion of Probable Construction Costs were submitted to AML on February 17, 2020.
9. Project was submitted for DOW review on March 13, 2020. DOW Construction Permit issued on June 3, 2020.
10. Project was submitted for a COE 4345 Permit Application review on March 20, 2020. Permit was issued on June 8, 2020.
11. The AML Authorization to Proceed was granted on July 31, 2020.

12. The Project was submitted to DOW for a Permit to Construct Along or Across a Stream on April 14, 2020. The DOW requested a public notice be run in the Mountain Citizen newspaper. The notice ran on June 24th, July 1st and July 8th. The period for public comments or objections related to the project ran through July 29th. The permit was issued on August 13, 2020.
13. Project was submitted to Corps of Engineers for Plan and Specification Review March 20, 2020. Corps provided review comments on April 28, 2020. Final plans and specifications including all electrical and structural components of the project were forwarded to the Corps of Engineers for final review during the week of July 13th. The Corps of Engineers completed its review of the final plans / specifications including the opinion of probable cost and certified the package.
14. The Corps of Engineers advertised the Draft Environmental Assessment (DEA) and Finding of No Significant Impact (FONSI) for the project on August 4, 2020 for the 30-day public comment period. KY SHPO requested further consultation. The FONSI was issued October 29, 2020.
15. Project was sent out for bidding on November 11, 2020.
16. A pre-bid meeting for interested contractors was held @ 1:00 p.m. on December 1, 2020.
17. Bids for the project were originally received on December 15, 2020 at 1:00 p.m. Only one bid was received (submitted by Pace Contracting). The project bid was in excess of the available funds.
18. The project was rebid.
19. Bids for the project rebid were opened on April 13th at 1:00 p.m. at the office of the Big Sandy Area Development District. There were four plan holders for the rebid. Only one bid was received (submitted by Pace Contracting).
20. The bid submitted by Pace was \$3,858,387.00.
21. The base bid of \$3,858,387.00 submitted compares to a base bid of \$3,396,220.00 submitted by Pace in December 2020. The difference was \$462,167.00 between the bids.
22. The combined base bids for the RWI/WTP Project and Water Line Replacement in the Beauty/Lovely Project exceeded the funds available for construction activities. Given the grave condition of the Raw Water Intake and Water Treatment Plant, the MCWD took the following actions:
 - A. Deferred the construction of the Water Line Replacement in the Beauty / Lovely area until a later date and use the funds budgeted for this project for construction of the RWI/WTP Project.
 - B. Continued submitting funding requests in an effort to obtain funding to construct the Water Line Replacement Project in the Beauty / Lovely area as soon as possible.

C. Awarded the Raw Water Intake / Water Treatment Plant Project to Pace Contracting based on the base bid received with the deletions outlined in Table 1.

TABLE 1

DESCRIPTION	PRIORITY TO ADD BACK	AMOUNT
Base Bid submitted by Pace Contracting, Inc.	N/A	\$3,858,387.00
Delete – Backup Generator	1	\$ (175,000.00)
Delete – Roof Replacement over Garage	2	\$ (31,818.00)
Delete – 60’ & 20’ Sections of 10-Inch Pipe	3	\$ (11,143.00)
Delete – Cash Allowance for Second Trailer	4	\$ (20,000.00)
Delete – Temporary Piping	N/A	\$ (10,000.00)
Change – Augur Cast Piles to Micro Piles	N/A	\$ (17,000.00)
Change – Buried Conduit from Rigid to PVC	N/A	\$ (20,000.00)
Reduce – Pace Markup	N/A	\$ (50,000.00)
Reduce – Various Unit Price Items	N/A	\$ (50,000.00)
TOTAL AWARD AMOUNT		\$ 3,473,426.00

23. A letter awarding the project to Pace under the conditions outlined in Table 1 and subject to concurrence of all the state and federal agencies was sent to Pace on July 9, 2021.
24. Authorization to Proceed was received from AML on September 1, 2021. The USACE had previously granted approval.
25. Executed contract books and bonds were received from Pace on September 8, 2021.
26. A preconstruction meeting was held on September 22, 2021 at the offices of the Big Sandy Area Development District.
27. Contract books were signed and dated by the Big Sandy Area Development District at the preconstruction meeting.
28. A Notice to Proceed (NTP) was issued at the preconstruction meeting. The contract required the contractor be given ten days from the issuance of the NTP before the contract time started.
29. The Contract time began on October 4, 2021.
30. The contractor has performed the following major items of work since the last meeting:
 - Completed installation of the generator transfer switch.
 - Completed installation of the generator. The generator is now online and capable of providing backup power to the Water Treatment Plant.
 - Grouted and backfilled the backwash gullet of Unit 1.

31. Remaining work:

- Complete grouting/welding of the backwash gullet of Unit 1 to eliminate leaks. Pace to be onsite tomorrow to perform additional grouting/welding.
- Startup Unit 1.
- Begin Unit 3 repair once Unit 1 is operational.
- Resolve issue with VFD for 300 HP Pumping Unit.
- Secure cart for pump.

**B. CONTRACT 113-19-03
LINE IMPROVEMENTS**

1. Bell was able to locate several sets of As-Built Drawings of the water distribution system. Bell scanned copies of all plan sets and returned to MCWD with digital copies of plan sets for MCWD future use.
2. Bell and MCWD personnel have been in the field multiple times locating existing lines, surveying existing meters, valves and fire hydrants and determining routing of new water lines.
3. Location of features affecting alignment of the waterline have been completed.
4. The Phase I Environmental Site Assessment required by the Corps of Engineers was completed and submitted.
5. Plans and specifications have been developed.
6. Project mapping for NEPA purposes was submitted to AML on February 10, 2020.
7. Project description and Opinion of Probable Construction Costs were submitted to AML on February 17, 2020.
8. Project was submitted for DOW review on March 13, 2020. DOW Construction Permit was issued on April 27, 2020.
9. Project submitted to Corps of Engineers Plan and Specification Review March 20, 2020. Corps provided review comments on April 28, 2020. Bell responded to comments and resubmitted plans/specifications on May 7, 2020. The Corps of Engineers completed its review of the final plans / specifications including the opinion of probable cost and certified the package.
10. Project was submitted to KYTC on April 6, 2020 for review. KYTC Encroachment Permit was issued on May 13, 2020.
11. Submitted to DOW for Permit to Construct Along or Across a Stream April 14, 2020. The permit was issued on June 17, 2020.
12. The AML Authorization to Proceed was granted on July 31, 2020.
13. The Corps of Engineers advertised the Draft Environmental Assessment (DEA) and Finding of No Significant Impact (FONSI) for the project on

August 4, 2020 for the 30-day public comment period. KY SHPO requested further consultation. The FONSI was issued October 29, 2020.

14. Project was sent out for bidding on November 11, 2020.
15. A pre-bid meeting for interested contractors was held @ 11:00 a.m. on December 1, 2020.
16. Bids for the project were originally received on December 15, 2020 at 11:00 a.m. Five bids were received.
17. The project was rebid.
18. Bids for the project rebid were opened on March 30 2021 at 11:00 a.m. at the office of the Big Sandy Area Development District. There were six plan holders for the rebid. Three bids were received (BP Pipeline, Buchannan Contracting, and Conkurs, LLC).
19. The low bid was submitted by Conhurst with a base bid of \$910,810.00 and a total bid with alternate of \$1,744,066.00.
20. \$1.5M in additional project funding through the Corps of Engineers is now available. Changes have been made to the plans in order to better align the proposed scope with available funds. The revised plans have been reviewed with representatives of Alliance. Locations of new valves in the Warfield area, a tie-in of the line along Firehouse Lane to Route 282, and valving in the Groundhog Lane area on both the sideline/mainline are being added. As soon as that is completed, plans will be reviewed one last time with Alliance and then a bid date will be coordinated with the funding agency.

C. WATER SYSTEM CAPITAL IMPROVEMENT PLAN / HYDRAULIC MODELING

1. Document is required by PSC
2. Bell has completed field review of RWI, WTP, Storage Tanks, Pumping Stations and PRV's.
3. Bell & UK met in Martin County on June 21, 2019 to coordinate collection of field data the week of July 8, 2019. This effort was for calibration of the Hydraulic Model.
4. UK professors and 3 students traveled to Martin County on July 8, 2019 to begin effort of collecting field data (pressures and flows) at key points throughout the water distribution system. Bell had a team of four individuals that were to join the UK team on July 10, 2019; however, MCWD had some major line breaks on July 9, 2019 and were unable to recover water supply during the week to allow flowing water from hydrants.
5. The effort to collect flow data was rescheduled for August 6 and 7, 2019, however, on August 5, 2019 MCWD has a failure of a PRV which would not allow the flowing of the hydrants.
6. The collection of the field data was rescheduled and occurred on August 14 and 15, 2019.

7. Field data has been reviewed. UK returned to the field in an effort to repeat two tests for the Hazen Williams coefficient that appeared suspect.
8. Money is in place to pay for the Hydraulic Model through AML 2017 Grant. OSM refused to allow for payment of the CIP through the 2018 Grant. The funds associated with that have been realigned toward additional waterline replacement.
9. UK delivered testing forms to Bell.
10. PRVs, tanks, lines, etc. have been input into the model.
11. Alliance Resources provided usage data and address information for each customer to effectively distribute demand throughout the system.
12. Model was calibrated using field collected data.
13. Bell has been working with UK to coordinate modeling efforts.
14. A Zoom meeting was held between the Kentucky Division of Water, University of Kentucky and Bell on July 1, 2020 to discuss the modeling. A second Zoom meeting was held on July 7, 2020 between UK and Bell to further discuss items that are needed.
15. Data has been shared between UK and Bell.
16. A trip to obtain additional field data was made in mid-July 2020.
17. The hydraulic model is operational and has been checked against previously recorded field observations. The results being output by the model are consistent with the observations obtained in the field.
18. Bell and UK are sharing model information.

**D. CONTRACT 113-19-04
ARC WATERLINE REPLACEMENT PROJECT**

1. Bell received the signed contract on August 2, 2019.
2. Bell and MCWD personnel have been in the field multiple times locating existing lines, surveying existing meters, valves and fire hydrants and determining routing of new water lines.
3. Location of all features affecting alignment of the waterline has been completed including gas lines.
4. Plans and specifications have been developed.
5. Project was submitted for DOW review on March 27, 2020. DOW Construction Permit issued April 27, 2020.
6. Project was submitted to KYTC on April 6, 2020 for review. KYTC Encroachment Permit was issued April 24, 2020.
7. Bids for the project were opened on May 29, 2020. Three bids were received for the project. The low bid in the amount of \$390,725.00 was submitted by Boca Enterprises, Inc.
8. A conversation was held with DLG representative on June 8, 2020 concerning using the remaining funds to continue laying additional mainline & service

lines, along with, installing new meters in the Lovely area. ARC approved allowing the funds to be used to replace additional mainline, service line and water meters.

9. Issues were resolved with the Contractor concerning contract time associated with the additional construction activities.
10. The Contract has been executed and the Contractor has submitted the required performance and payment bonds.
11. A preconstruction meeting was held on September 9, 2020 at the offices of Alliance Water Resources.
12. Project construction was completed.
13. Record Drawings have been forwarded to the MCWD. Bell received the final signed Contractor pay request, the release of liens and claims and consent of surety. This information was forwarded on to the District and Big Sandy Area Development District for execution and processing.
14. The project is closed. We are maintaining it on the project list through the warranty period.
15. There is \$85,832 in unspent funds from this project. The district is looking to add telemetry to the KY 292 Pumping Station and KY 292 South Tank with these funds. This will allow the district to monitor tank levels and water usage remotely and respond in a timely manner to breaks in the line. Bell is working on project design now.
16. The ADD has worked with DLG and determined this project will have to be advertised for bidding. Bid documents for the project are complete except for insertion of the bid dates. Specs are being typed now. Project to be advertised upon funding agency concurrence.

E. USP BIG SANDY, EASTERN KENTUCKY BUSINESS PARK & BIG SANDY AIRPORT WATER PROJECT

1. Project budget was revised and sent to AML on September 19, 2019.
2. The Memorandum of Agreement between AML and BSADD was signed by BSADD on September 25th. The MOA was signed by AML on October 1, 2019.
3. A contract for engineering services has been executed by the Big Sandy Area Development District.
4. Bell and MCWD personnel went to the field to review potential tank and pump station sites.
5. The Preliminary Engineering Report for the project is complete and has been distributed.
6. Plans have been prepared for the 250,000-gallon water storage tank.
7. Bell, Alliance and MCWD coordinated with the mineral lease holder and the surface owner concerning location of the proposed tank and pump station.

BSADD, Bell and Alliance representatives met with the property owner on January 30, 2020.

8. On March 3rd, the property owner advised most of the property is permitted with only a phase one bond release.
9. Bell and Alliance met on-site with the property owner on May 5, 2020 and permission to move forward was granted.
10. The site was surveyed on May 27, 2020 and topographic mapping was developed.
11. At the request of the MCWD, work on this project was previously paused.
12. A request was submitted to AML asking that the project scope be revised. Components that would remain in the project include:

- Upgrade of the existing Davella Pumping Station
- Construction of a Master Meter
- Construction of a Booster Chlorination System

Proposed revised scope components:

- Relocate the proposed Pump Station so that it replaces the existing Otto Brown Station. This station is beyond its useful life and subject to confined space constraints.
- Replace existing waterline in the vicinity of the Otto Brown Station that is subject to leaks.
- Provide Modifications to the Middle Fork Tank rather than construct a new tank.

13. The request was approved by OSM.
14. Project design is continuing. Bell has made multiple trips to the field and we to perform surveying and line layout. We have also attached pressure recorders to four different hydrants to monitor pressure in the area for purposes of pump station design. Replacement water lines have been designed and reviewed with Alliance. Pump Station design is ongoing. Project will be forwarded to AML for NEPA review.

F. CONTRACT 113-20-02

WATER LINE RELOCATION HUNTER'S LANE

1. Met on-site with Bizzack Construction, Alliance Water Resources and representatives of other utilities on May 28, 2020.
2. A scope of work for the project has been developed. Project is on hold.

G. KY 908 GUARDRAIL PROJECT

1. Met on-site with KYTC multiple times.
2. KYTC has advised additional funds have been requested to perform this work. They will release the project for design when those funds are approved.

H. SESTER BRANCH UTILITY RELOCATION

1. Representatives of KYTC, Alliance, Bell Engineering and the gas company met onsite to discuss the project on January 18th. Bell has forwarded the draft plans to both KYTC and Alliance for review. Bell has also forwarded a draft contract to KYTC for review. Anticipate bidding & constructing the project this summer.
2. Both Engineering and construction related costs will be paid by KYTC.

I. REPLACE BRIDGE ON KY 40 OVER BUCK CREEK

1. Met with KYTC to review proposed work in April.
2. Over the past month, Bell has been reviewing the roadway plans received from KYTC in preparation for walking project with Alliance to ensure concerns with the existing lines are addressed during the relocation. Project plans and engineering contract will then be forwarded to KYTC.
3. Both Engineering and construction related costs will be paid by KYTC.

J. HIGH SCHOOL PUMP STATION CHECK VALVE

1. Met With Alliance to discuss issues.
2. Preparing plans to add a valve vault and check value to give operations personnel more control over the direction of flow of water from the tank.
3. Project to move forward when funded. An updated project cost was provided to Alliance this week.

K. FEMA BACKUP GENERATOR PROJECT

1. Seeking FEMA funding for a project that includes the following:
 - One Generator to operate 750-HP VFD Controlled RWI Pump
 - Two Generators to operate 60-HP VFD Controlled Pumping Stations
2. The district received a letter in April from FEMA advising of award in the amount of \$1,140,300. Project design was approved on May 24th and is underway.

L. SPICY MOUNTAIN WATER EXTENSION

1. An opinion of probable project cost for delivery of water from the Johnsn County side of the Mountain has been prepared.

M. TURKEY TANK REHABILITATION

1. Bell has finalized and forwarded an opinion of probable cost to rehabilitate the Turkey Tank. An opinion of probable project cost has been prepared and forwarded to AML for funding consideration.

N. INEZ UTILITY REPLACEMENT

1. Met to discuss options for replacing the utilities in Inez. Since the streets will be torn up to replace these utilities, we are attempting to incorporate some economic development components as the streets are built back. These could include wayfinding signs, trails, parks, pavilions and streetscape improvements. Bell has finalized a contract for preliminary work that will and forwarded it to the Martin County Water District for consideration. The district has forwarded it to the City of Inez and Martin County Fiscal Court for consideration.

O. 40E WATER IMPROVEMENT PROJECT

1. Project would remove existing water connections from a waterline that is leaking and move them to a 10" parallel line. The leaking line would then be removed from service. An opinion of probable project cost has been prepared and forwarded to AML for funding consideration.

P. COLDWATER WATER IMPROVEMENT PROJECT

1. Project would replace the existing waterline, service line and meters in the Coldwater area. An opinion of probable project cost has been prepared and forwarded to AML for funding consideration.

Q. OLD ROUTE 3 WATER IMPROVEMENT PROJECT

1. Project would replace the existing waterline, service line and meters in the Old Route 3 area of the county. An opinion of probable project cost has been prepared and forwarded to AML for funding consideration.

R. WATER IMPROVEMENT PROJECT BETWEEN WTP AND TURKEY TANK

1. Project would replace the existing waterline, service line and meters between the WTP and the Turkey Tank. An opinion of probable project cost has been prepared and forwarded to AML for funding consideration.

S. COUNTYWIDE METER REPLACEMENT PROJECT

1. Project would replace all meters (residential and commercial) in the Martin County Water District system. An opinion of probable project cost has been prepared and forwarded to AML for funding consideration.

R. PREPARE OPINION OF PROBABLE PROJECT COSTS FOR THE FOLLOWING PROJECTS

- Inez Water Line and Valve Replacement
 - Distribution Building and Pipe Yard
 - 292 Booster Station and Water Line Replacement
 - Big Elk Water Line Replacement and Booster Station Rehabilitation
 - Buffalo Horn Water Line Replacement and Booster Pump Station Rehabilitation
 - 645 Water Line Replacement and Booster Station Rehabilitation
 - Wolf Creek/Pigeon Roost Water Line Replacement
 - Meathouse Water Line Replacement and Booster Station Rehabilitation
 - Hode Water Line Replacement
 - Castel Branch Water Line Replacement and Booster Pump Station Rehabilitation
 - Creek Crossing Replacement Project
 - Valve Insertion Project
 - Big Lick Water Line Replacement and Booster Station Rehabilitation
 - Peter Cave Water Line Replacement and Booster Pump Station Rehabilitation
 - Kermit Water Line Connection
1. Will meet with Alliance to ensure we have the project scope correctly delineated.

MARTIN COUNTY WATER DISTRICT 5 YEAR CAPITAL ITEMS						
CAPITAL PROJECTS IN GRANT PROCESS	PRIORITY	GRANT PORTAL YEAR	CONSTRUCTION YEAR	COST	FUNDING SOURCE	COMMENTS
40E SERVICE LINE REPLACEMENT AND 6" ABANDONMENT	1	2023		\$ 760,000	IN GRANT PORTAL	MOVING 50+ CUSTOMERS TO NEWER 10" LINE AND ELIMINATING OLD 6" LINE THAT IS BELIEVED TO BE LEAKING
TURKEY WATER LINE REPLACEMENT	2	2023		\$ 6,822,000	IN GRANT PORTAL	REPLACING LINE FROM THE WATER PLANT TO THE TURKEY TANK. THIS LINE HAS HAD MULTIPLE LEAKS OVER THE YEARS AND IS A CRITICAL POINT FOR A LARGE SERVICE AREA IN THE SYSTEM.
COLDWATER LINE REPLACEMENT	1	2023		\$ 8,419,000	IN GRANT PORTAL	UP TO 4 WATER LINES IN THE SAME AREA WITH MANY WEAK POINTS
WATER PLANT CLARIFIER III REHAB	1	2020	2023	\$ 250,000	AML	THIS PROJECT WILL BE COMPLETED AS PART OF A LARGER PROJECT CURRENTLY UNDERWAY. RAKE DRIVE BEARING IS OUT.
TURKEY STORAGE TANK REHAB	1	2023		\$ -	IN GRANT PORTAL	TANK IS ONE OF THE OLDEST AND IN THE WORST CONDITION IN OUR SYSTEM
Project 113-19-03 Replace Existing Mainline, Water Meters, Service Line, Valves &	3	2019		\$ 1,260,658	AML	EXISTING PROJECT BIDDING SOON
Projects 113-19-05 & 113-19-06 Rehabilitation of Otto Brown Booster Station, Line replacement to Middlefork Tank, Upgrade of Davella Booster Station	1	2019 Scope changed 2022		\$ 750,000		REPLACING FAILING UNDERGROUND BOOSTER STATION IN THE SYSTEM TO ASSIST IN PROVIDING WATER TO THE AIRPORT, PRISON AND DAVELLA REGION.
FEMA BACKUP GENERATOR PROJECT	1	2022		\$ 1,320,000	FEMA	WILL BE GENERATOR AT 40E AND 40W BOOSTER STATIONS AND THE RAW WATER INTAKE
METER REPLACEMENT PROJECT	1	2023		\$ 2,000,000	IN GRANT PORTAL	REDUCE WATER LOSS, EFFECIENCY IN OPERATIONS AND ELIMINATION OF HUMAN ERROR IN METER READING
HIGH SCHOOL PUMP STATION CHECK VALVE	3	2022		\$ 70,000.00		ENABLE THE DISTRICT TO USE THE HIGH SCHOOL TANK TO PROVIDE WATER TO OTHER AREAS OF THE SYSTEM BESIDES THE HIGHSCHOOL

MARTIN COUNTY WATER DISTRICT CAPITAL ITEMS				
PROJECTS NOT IN GRANT PROCESS	PRIORITY	YEAR	COST	COMMENTS
INEZ WATER LINE AND VALVE REPLACEMENT	1			OLDEST SECTION OF THE SYSTEM CONSISTING OF AC LINE AND OLD SERVICES. 90% WATER LOSS
DISTRIBUTION BUILDING AND PIPE YARD	3			CURRENT STAFF USE THE WATER PLANT PARKING LOT FOR STORAGE OF VEHICLES AND PARTS. THE CURRENT EQUIPMENT AND VEHICLES ARE LEFT IN THE ELEMENTS WHICH CAUSE DAMAGE OVER TIME
292 BOOSTER STATION AND WATER LINE REPLACEMENT	1			BOOSTER STATION HAS PASSED ITS USEFUL LIFE AND NEEDS COMPLETE REHABILITATION
BIG ELK WATER LINE REPLACEMENT AND BOOSTER STATION REHABILITATION	2			UNDER GROUND BOOSTER STATION IS PASSED ITS USEFUL LIFE AND NEEDS TO BE ABOVE GROUND WITH REDUNDANCY
BUFFALO HORN WATER LINE REPLACEMENT AND BOOSTER STATION REHABILITATION	2			UNDERGROUND BOOSTER STATION IS PASSED ITS USEFUL LIFE AND NEEDS TO BE ABOVE GROUND WITH REDUNDANCY
645 WATER LINE REPLACEMENT AND BOOSTER STATION REHABILITATION	3			UNDERGROUND BOOSTER STATION IS PASSED ITS USEFUL LIFE AND NEEDS REHABILITATION. CURRENTLY A HIGH WATER LOSS
WOLF CREEK/PIGEON ROOST WATER LINE REPLACEMENT	2			HIGH AMOUNT OF BREAKS IN THIS AREA CAUSE REPEATED OUTAGES AND LINES ARE BURIED DEEP
MEATHOUSE WATER LINE REPLACEMENT AND BOOSTER STATION REHABILITATION	3			MEATHOUSE HAS NO REDUNDANCY AND NO SCADA TELEMETRY. THIS STATION NEEDS UPGRADED WITH REDUNDANT PUMPS AND TELEMETRY TO TOGGLE PUMPS ON AND OFF FROM THE PLANT.
HODE WATER LINE REPLACEMENT	2			MANY BREAKS IN THE WATER
CASSELL BRANCH WATER LINE REPLACEMENT AND BOOSTER STATION REHABILITATION	3			BOOSTER STATION HAS ONE PUMP AND NEEDS TO HAVE REDUNDANCY.
CREEK CROSSING REPLACEMENT	2			MANY POINT TO WHICH THE WATER PLANT
VALVE INSERTION	2			MANY VALVES IN THE SYSTEM ARE INOPERABLE AND IN NEED OF REPLACEMENT. ADDITIONALLY, VAVLES ARE NEEDED FOR CONTINUED LEAK DETECTION
WATER PLANT HIGH SERVICE PUMP REPLACEMENT	1		\$ 250,000.00	BOTH PUMPS HAVE BEEN IN SERVICE FOR A LONG TIME AND ARE IN MUCH NEED OF REPLACEMENT
PASSENGER TRUCK 4X4	1	2024	\$ 60,000.00	CURRENT VEHICLES ARE INOPERABLE
1 ton 4x4 tool truck with Hoist, Generator, and Compressor	1	2023	\$ 120,000.00	CURRENT TRUCK IS OWNED BY SANITATION DISTRICT
ROAD BORE MACHINE	1		\$ 15,000.00	WOULD ALLOW THE DISTRICT TO DO ITS OWN TAPS AND BORES FOR WATER LINE INSTEAD OF CONTRACTING IT OUT.
ONLINE TURBIDIMETERS AND CONTROLLER	2		\$ 22,626.00	CURRENT TURBIDIMETERS ARE OBSOLETE
BIG LICK WATER LINE REPLACEMENT AND BOOSTER STATION REHAB	3			BOOSTER STATION HAS NO REDUNDANCY AND NEEDS A NEW BUILDING. THIS BOOSTER STATION ALSO HAS NO TELEMETRY AND CANNOT BE MONITORED FROM THE PLANT
PETER CAVE WATER LINE REPLACEMENT AND BOOSTER STATION REHAB	3			BOOSTER STATION HAS NO REDUNDANCY AND SEVERAL LEAKS HAVE CAUSED MANY CUSTOMER OUTAGES. BOOSTER NEEDS REHABILITATED AND LINES NEED REPLACED.
KERMIT WATER LINE CONNECTION	3			INTERCONNECT BETWEEN KERMIT AND MARTIN COUNTY IS BROKEN SOMEWHERE IN THE MIDDLE OF THE TUG RIVER. THIS INTERCONNECT NEEDS REPAIRED OR A NEW LINE NEEDS CONNECTED

MARTIN COUNTY WATER DISTRICT ANNUAL CAPITAL ITEMS

RECURRING PROJECTS	YEAR	COST	COMMENTS
10% METER REPLACEMENT	ANNUALLY	\$ 80,000.00	AS REQUIRED BY PSC
TANK INSPECTIONS/CLEANING	ANNUALLY	\$ 7,000.00	1 TANK PER YEAR SHOULD HAVE THEM INSPECTED EVERY 10 YEARS
VEHICLE REPLACEMENT	ANNUALLY	\$50,000.00	ROUTINE FLEET MAINTENANCE AND CHANGE OUT NOT EQUIPMENT EXPENSE