COMMONWEALTH OF KENTUCKY

BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

ELECTRONIC APPLICATION OF MARTIN COUNTY WATER DISTRICT FOR ALTERNATIVE RATE ADJUSTMENT

CASE NO. 2021-00154

NOTICE OF FILING EXHIBIT TO BE UTILIZED BY MARTIN COUNTY WATER DISTRICT AT HEARING ON MAY 27, 2021

Comes the Martin County Water District, by counsel, and hereby gives Notice of Filing of

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the attached Exhibit #1, Alliance Water Resources, Inc. Operations Update Power Point to be

utilized at the Public Service Commission hearing on May 27, 2021.

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CERTIFICATE OF SERVICE

This will certify that a true and correct copy of the foregoing was emailed on this the 25 day of May, 2021, to the following:

Public Service Commission P.O. Box 615 Frankfort, KY 40602 <u>Ariel.Miller@ky.gov</u> <u>Brittany.Koenig@ky.gov</u> Jesse.Fries@ky.gov Hon. Mary Varson Cromer Appalachian Citizens' Law Center, Inc. 317 Main Street Whitesburg, KY 41858 *mary@appalachianlawcenter.org*

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BRIAN CUMBO

Alliance Water Resources, Inc. Operations Update

Martin County Water District

May 27, 2021

AGENDA

- ► Key Accomplishments to Date
- Disaster Response
- ► Water Loss
- Immediate Needs
- Discussion/Questions



Key Accomplishments to Date



- Meter Audits
- Audits from 2016 -2020 complete
- Created 90-day goals
- New billing software purchased and Implemented
- QGIS and GEOSYNC CLOUD Implementation.
- 1300 meters GIS Mapped
- Leak Mapping on GIS

Key Accomplishments to Date



- Master Meter Zones Identified
- Critical Operational Equipment for Regulatory Compliance and Leak Detection
- Developed Meter Reading and Billing SOP
- Developed Customer Service SOP
- Repaired Crum Reservoir monument
- Installed 2nd pump at Turkey Booster Station
- Purchased New Trench Box for Safe Excavation









Key Accomplishments to Date

- Replaced Ceiling Tile and Lighting in Plant Lab
- Installed New Booster Station Building at Cassell Branch
- Purchased New Booster Station Building for Big Lick Booster Station
- 3 Trucks brought from Alliance Water Resources and Provided for District Use
- Repaired the District Excavator and Purchased New Tracks
- Repaired District Dump Truck for Use During Leak Repairs

Key Accomplishments to Date





- Fixing Hydraulic and System Issues the Right Way
- 5 Newly Acquired Licenses in the District
- Developed and implemented a Theft of Water SOP
- Installed a new valve on ST RT 2032 to isolate a problem area in Wolfcreek area
- ► Inventory Control Program
- Graveled Access Road for Clearwells

Disaster Response

- February Ice Storm Power Lost to Inez Water Treatment Plant, 40 East Booster Station, and 40 West Booster Station.
 - Power Back at Treatment Plant -Pumping water
 - 40 East Booster Station Receiving Single Phased Power - Caused the VFD to fail
 - ▶ 40 West Booster Station Power Out
- Received Generator with Assistance From KRWA for the 40 West Booster Station
- VFD Moved from 40 West to 40 East to get Pump Station Running



DISASTER RESPONSE



- Sunday February 28th -Flood
 - 40 East Booster Station Power Out
 - Multiple Slips Throughout the System Causing Water Line Failures
 - Turkey Hill 6 Different Breaks in Main Line from Slip
 - 292 Multiple Slips Causing Water Line Failures
 - Poplar Fork Slip
 - Power Outages caused VFD Failure on 40 East Booster

DISASTER RESPONSE



- Alliance Division's in Cape Girardeau, and Lincoln County Responded with Staff and Equipment for Assistance
- Poplar Fork Repaired with a Temporary Line Installation. Self Restraining Yellowmine was installed by Alliance Staff
- Turkey Creek Repaired Leaks in 6 different locations. A broken valve in the closed position was found with a 2" bypass.
- Emergency Connection with Mountain Water District was opened to provide water for customers on the southern side of 292.

WATER LOSS REDUCTION

► GIS IMPLEMENTATION

- ► District Master Meter Zones Established
- Customer Meter Location
- Leak Tracking
 - Reported Leaks
 - Active Leaks
 - Repaired Leaks
 - ► Trouble Zones For Replacement
- ▶ Water Loss SOP and M36 Manual
 - Strategic approach using GIS, PRV's, and District Meters for Leak Detection

- Established Leak Detection Team
- ► Water Meter Replacement

WATER LOSS CONTROL PROGRAM FLOW CHART (FC AWR 09-02)





REV DATE: 31/LIAR20

REV BY: JAS





COCATION	MASTER METER II	BOOKE	ACCOUNT	PREVIOUS MONTHS FINAL READ	CURRENT READ	USAGE	CURRENT READ	USAGE	CURRENT READ 5/12/1021	USAGE	CURRENT READ 5/19/2021	USAGE	MONTHLY	MONTHLY BILLED CONSUMPTION	OFFERENCE	BILLED AVG PER AREA
PRODUCTION/INEZ	1506821	1,3	126	628,052,000	639,871,000	8,336,604	651,551,000	8,521,197		No. In co.		a B to D	16,857,801	ater with		133,792
Coldwater	62312310	2	286	582,927,990	583,846,900	918,910	584,686,900	840,000				(B) 24	1,758,910	19.29		6,150
Otto Brown	62312309		405	15,340,290	15,665,591	325,301	15,929,400	263,809					589,110	57-11 L I		1,455
TOTAL SUB METERS	06312303		691		14004,000	1,244,211	Light of the	1,103,809	Section 2			1 March 19	2,348,020		1000	3,398
TOTAL SOUTHERED		_														
Turkey	£2829960001475	4	260	26,895,911	27,370,436	474,525	27,848,180	477,744	1				952,269			3,663
40 E Pump Station	62312312	5	174	98,169,370	98,169,370	0	98,169,370	0					0			0
Buck Creek	89211330	9,11,17,18				405,000	- Contraction of the second	654,404		-			1,060,404			2,905
Hođi	62312235	30			422,007,200	573,750	422,525,210	518,010					1,091,770		-	4,788
2925 @ RR Bridge	70519212	12			175,806	.1		0				_	-1			0
REJPR	43540193	12		725,787,000	296,006,000	719,000	286,658,000	652,000					1,371,000	1000	1000	FORV/01
Long Branch (292)	62312313	16	156		162,054,360	0	162,054,360	Ŭ			1		0	1993		0
TOTAL SUB METERS			997		No issue	1,292,759	and a second	1,824,434	-1 202				3,117,173		. 52. 5	3,127
Rockcastle on 2032	46384882			\$4,580,200	05,365,100	167,346	85,991,400	100,517					267,863			10/101
Pirvan Roos	62312242	14	229	2,607,870	2,667,960	65,090	2,776,140	108,180					173,270			757
Peter Care of Wolf Crk	62312243	13	101	15,086,381	25,089,817	3,436	25,0%,245	6,438		Barberte -			9,864	0		96
Meathouse	62312239	15	\$6	18,664,159	19,055,748	391,589	19,407,044	351,2%		an failes			742,885		1.	7,738
Emily Creek	70915637	24		32,120,588	32,157,549	37,001	32,194,540	¥,551					73,952			TO(V/O
Big Branch	72103043	34	0	15,931,325	15,951,763	20,438	15,974,691	22,928			4		43,366			INVIOI
TOTAL SUB METERS			421			\$17,554		\$25,783	1000		a no los	1-1-5-00	1,043,337	and and set		2,438
40 W Pump Station	60869002	8		62,938,050	64,701,710	1,763,660	66,278,960	1,577,250					3,340,910		1.1.2.0	
Marcus Welk	87860573	8	400	222,117,000	323,680,000	1,563,000	225,079,000	1,399,000				22	2,962,000			8,352
Catoway	62045452	8	95	103,427,370	104,573,380	1,146,010	105,569,660	9%,780	8		1		2,142,290			22,550
Rockhouse	62312238	1	eunpa	43,238,AB7	93,939,564	101,077	94,034,390	94,826					195,903		the first	
CI d 91 3	62312241	7	393		3,382,386	172,509	4,131,124	742,738					1,615,247			498
Johnson Bottom	61786120	1	X		9,072,284	41,127	9,111,278	34,995		1.2010	-	13	80,122			3,205
TOTAL			913		All and and	3,723,723	N THE PART.	3,271,839	136E1				6,995,562			7,662
TOTALS		26.71.5	3,289	11 E.N. 19 E.	10 March 10	6,778,247		7,203,589		1 - 1 - 3			13,981,836	C UF SALE		2.1



IMPORTANT WATER LOSS NOTES

- February Water Loss 67.7%, March Water Loss 76.59%, April Water Loss 65.3%
- Plant Has Averaged 1.68 MGD For the Past 5 Weeks
- Shutting Plant Down for 4 Hours Every Other Day
- Water Pumped to Prison was 3.2 Million for April and on track for 3.5 million in May
- Estimated 40 Million Gallons Recovered In the Month of March From Repaired Leaks

IMMEDIATE NEEDS LIST FOR MARTIN COUNTY

- ► AMI/AMR METER READING SYSTEM
- ► GENERATORS FOR ALL CRITICAL INFRASTRUCTURE
- PUMP REDUNDENCY
- ▶ SCADA AND TELEMETRY UPGRADES FOR PLANT AND REMOTE SITES
- ▶ WATER LINE REPLACEMENT AT MULTIPLE LOCATIONS
- ► HIGH SERVICE PUMP REPAIRS/UPGRADES IN PLANT
- ► ALL PROJECTS HAVE BEEN ESTIMATED AND RFQ'S HAVE GONE OUT



Martin County Water and Wastewater Projects

No.	WRIS	Project Description	Amount		
1	WX21159013	Meter Replacement	\$ 1,716,000.00		
2		Fixed/Portable Generator Project for RWI, 40E & 40W Booster Stations 60 HP Motor Duplex Stations	\$ 429,000.00		
3		Telemetry/booster station upgrade at Route 292	\$ 358,000.00		
4	WX21159009	SCADA upgrade at WTP with VTScada and Allen Bradley PLC's/System wide Telemetry upgrade, plant equipment/online turbidity meters, CL17, online fluoride meter bench top meter and high service pump VFD replacement	\$ 1,324,000.00		
5	WX21159020	Water line replacement at City of Inez, Blacklog Road Line Replacement from Turkey Creek 40E Booser Station, WTP to Turkey Creek, Old Route 3 from Inez to Milo, Coldwater Line Replacement	\$ 36,428,000.00		
6		Inez Sewer Line Replacement/lining/smoke testing	\$ 14,915,000.00		
7		WTP High Service Pump Replacement	\$ 750,000.00		
		TOTAL	\$ 55,920,000.00		

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Questions?

