AGENDA

- Key Accomplishments to Date
- GIS and Water Loss Update
- Project Updates
- Discussion/Questions
Key Accomplishments to Date

- New Excavator purchased for use in Martin County
- Peracetic Acid has been approved for use at both WWTP’s and is being fed
- New billing software purchased and implemented
- QGIS and GEOSYNC CLOUD Implementation.
- 25 meters GIS Mapped
- Leak Mapping on GIS
- Kept reservoir levels up while battling pump issues
Key Accomplishments to Date

- Master Meter Zones Identified
- Water Loss Control Implementation
- Critical Operational Equipment for Regulatory Compliance and Leak Detection
- Made several hydraulic corrections in the system with a bore machine and poly water line
- Purchased New Trench Box for Safe Excavation
- New Pump at Meathouse Booster Station
- Repaired broken valve
Key Accomplishments to Date

- Replaced a broken and leaking hydrant in the Warfield area
- Installed New Booster Station Building at Cassell Branch
- Purchased New Booster Station Building for Meathouse Booster Station
- 6 Trucks brought from Alliance Water Resources and Provided for District Use
- Repaired the District Excavator and Purchased New Tracks
- AWR purchased a Dump Trailer for use
- AWR Purchasing a New Excavator for use in Martin County
Key Accomplishments to Date

- Fixing Hydraulic and System Issues the Right Way
- 10 Newly Acquired Licenses in the District
- Improved Efficiency in Meter Reading
- 10 Theft of Water since January
- Inventory Control Program
- Graveled Access Road for Clearwells
- Pump Redundancy at 292 Booster Station
- New Pump at Buffalo Horn Booster Station
Key Accomplishments To Date

- Data collection for CIP
- PSC rate increase
- Loan approval from KRWA board and MCWD board
- Customer Complaint Tracking
GIS Mapping and Water Loss
Water System Improvements
Project Status Update

Martin County Water District

March 16, 2022
Completed Projects
Telemetry & Utility Relocation Projects

- **High School Water Storage Tank & Booster Station Telemetry**
  - New telemetry at the Holly Bush Pump Station
  - New telemetry at the High School Water Storage Tank

- **Willis Dials / Dans Branch Road Utility Relocation**
  - Replaced Existing Waterline to Facilitate Construction of a new Bridge for the KYTC Bridging Kentucky Program
Hydraulic Model, Pump Purchase, Lovely Line/Meter Replacement Project

- **Hydraulic Model**
  - Bell and UK Continue to adjust the Respective Models to reflect Modifications to the system.

- **RWI Improvements - Pump Purchase Only**
  - New 2 MG Raw Water Intake Pump with Variable Speed Drive
  - New 4 MG Raw Water Intake Pump with Variable Speed Drive
  - New 4,000 GPM River Screen

- **Lovely Mainline, Service Line & Meter Replacement Project**
  - 22,629 LF of Mainline/Service Line Replaced
  - 61 Meters Relaced
Project to Utilize Remaining ARC Funds
Kentucky 292 South Pumping Station & 292 South Tank Telemetry

**Need for the Project:**
- ARC project has $85,832 in unspent funds.
- KY 292 Pumping Station is located where the ARC Water Improvement Project ended.
- Neither the Pumping Station nor Water Storage Tank it pumps to have operating telemetry.
- Being unable to monitor equipment remotely inhibits the District’s ability to respond in a timely manner to system water loss and may lead to overflow of the tank.

**Major Items of Work:**
- A solar powered tank site PLC-RTU with panel, coax & antenna
- A pump station PLC-RTU with panel, coax & antenna
- Level sensor for monitoring tank level
- Mechanical/Electrical Improvements to the Pumping Station
Projects Under Construction
RWI & WTP Improvements

- **Raw Water Intake Improvements:**
  - Concrete Ramp & Winch System for Moving Raw Water Pumps Up & Down Slope
  - Electrical Building Upgrade, Telemetry, Line Reactors and Instrumentation

- **Water Treatment Plant Improvements:**
  - Rehabilitation of Clarifiers 1 & 3 with New Valve Vault for Clarifier 1
  - Replace Outside Chlorine Chemical Feed Piping
  - Replace Master Meter

- **Status:**
  - Project Construction Began: October 4, 2021
  - Scheduled Construction Completion Date: July 31, 2022
  - Contractor Performing Work: Pace Contracting, LLC of Louisville Kentucky
WTP Improvements

- **Work to Date:**
  - Completed Demolition of Existing Treatment Unit 1
  - Removed Media from Filters in Treatment Unit 1
  - Removed Underdrains from Treatment Unit 1
  - Poured Valve Vault for Treatment Unit 1
  - Tied in Treatment Unit 1 Drain Pipes to Valve Vault 1

- **Projected Major Equipment Delivery Dates:**
  - Tube Settles for Treatment Unit 1: 4/8 - 4/18
  - Tube Settlers for Treatment Unit 3: 5/8 – 5/18
  - Valves: 3/28 - 4/7
  - Westech Underdrains: 5/6
RWI Improvements

**Work to Date:**
- Performed Excavation for the Concrete Ramp
- Removed Existing Gabion Baskets
- Poured New Valve Vault
- Poured Concrete Pump Ramp
- Switched Pumps to Temporary Power
- Demolished the old Raw Water Intake Electrical Building

**Projected Major Equipment Delivery Dates:**
- Remaining Electrical Gear: May 2022
Designed Projects Awaiting Funding
Mainline, Service Line, Meter Replacement In the Warfield Area

- **Project will Replace the following in the Warfield Area:**
  - Existing Mainline
  - Existing Meters & Service Line
  - Existing Valves & Hydrants

- **Status:**
  - Due to overage on the RWI/WTP Project, the District deferred construction of this project to a later date in order to use the funds associated with this project for construction of the RWI/WTP Project.
  - The District is submitting funding requests in an effort to obtain funding to construct this project as soon as possible.
  - Permits and Approvals (DOW, KYTC, Floodplain Management, Corps of Engineers, AML, etc.) required for construction have been obtained.
Projects Seeking Funding
FEMA Backup Generator Project

- Project includes the following:
  - One Generator to operate 750-HP VFD Controlled RWI Pump
  - Two Generators to operate 60-HP VFD Controlled Pumping Stations
Projects in Design
USP Big Sandy, Eastern Kentucky Business Park & Big Sandy Airport Water Improvements

- Submittal to Revise Scope has been forwarded to AML for Consideration
- Components Remaining in Project from Original Scope
  - Upgrade of the Existing Davella Pump Station
  - Construct Master Meter & Booster Chlorination
- 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.
Rockhouse Creek Utility Relocation:

- Relocation of existing waterline to facilitate construction of a new bridge for the KYTC Bridging Kentucky Program
Construct Valve Vault and Check Valve

- Install Valve Vault and Check Valve to allow District to feed additional service areas with the High School Water Storage Tank.
KYTC Utility Projects Awaiting Funding
Hunters Lane Utility Relocation & KY 908 Guardrail Project

- **Hunters Lane Utility Relocation:**
  - Relocation of existing waterline to facilitate construction of a new bridge for the KYTC Bridging Kentucky Program

- **KY 908 Guardrail:**
  - Relocation of existing 14” waterline along Route 908 to facilitate installation of new guardrail.
Questions?