

# TOWN OF BEECH MOUNTAIN

## DEPARTMENT OF INFRASTRUCTURE: UTILITIES

2019 Update

Projects

Accounting

Unaccounted for Water



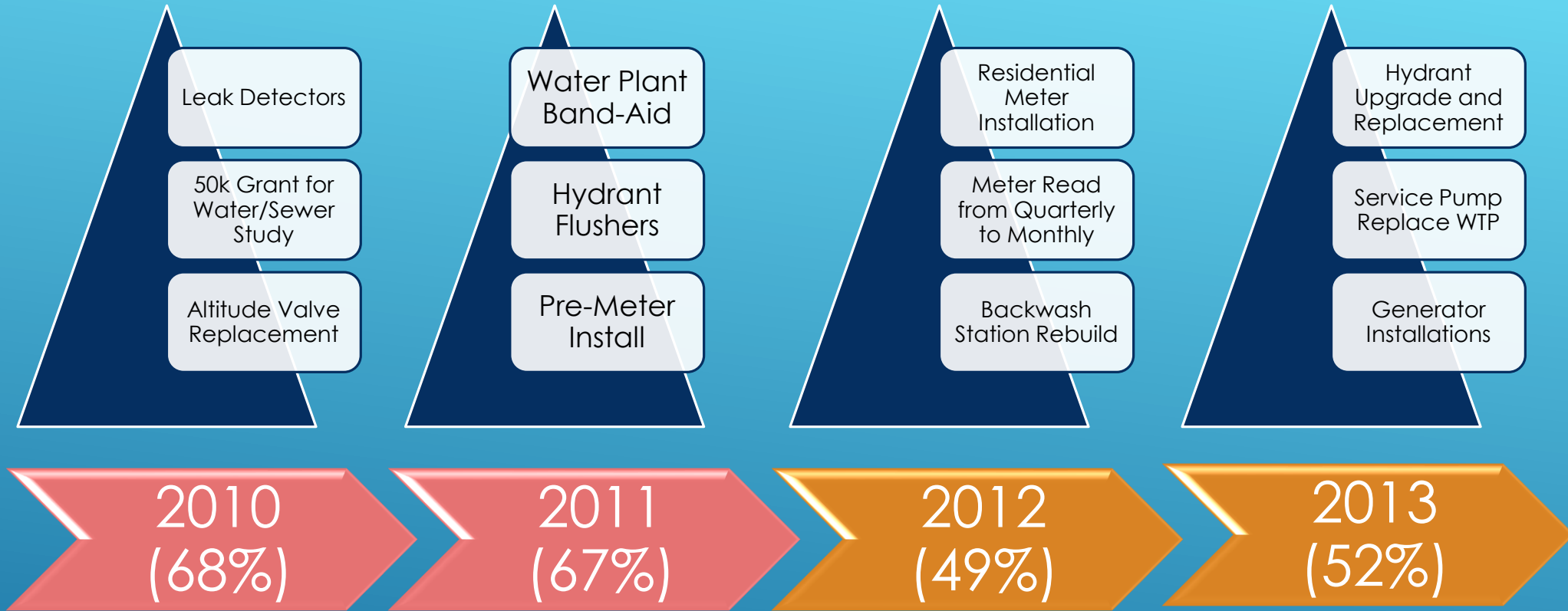
2009

IN 2009,

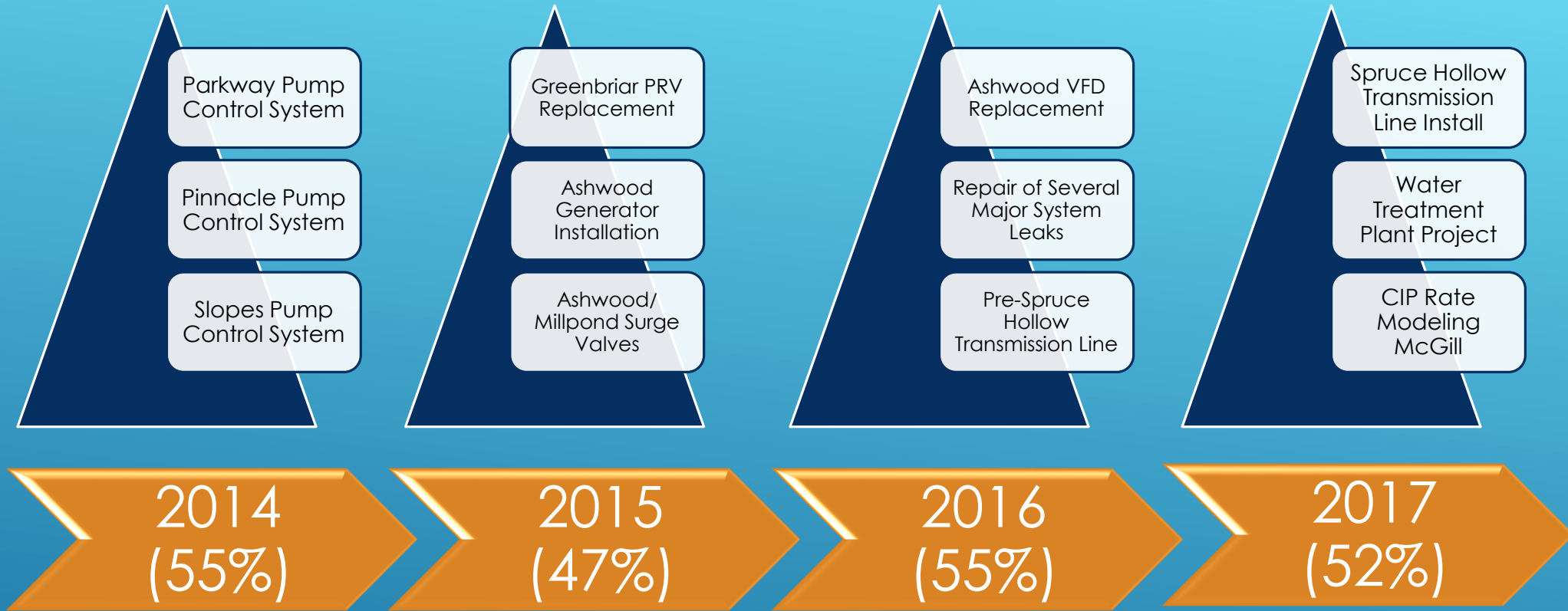
IT WAS FOUND THAT WE  
HAVE A MAJOR ISSUE  
WITHIN OUR SYSTEM

ANALYSIS BEGINS TO SHOW  
AN EXTREME NEED FOR  
MAJOR UPGRADES AND  
REPAIRS IN THE TOWN  
WATER SYSTEM

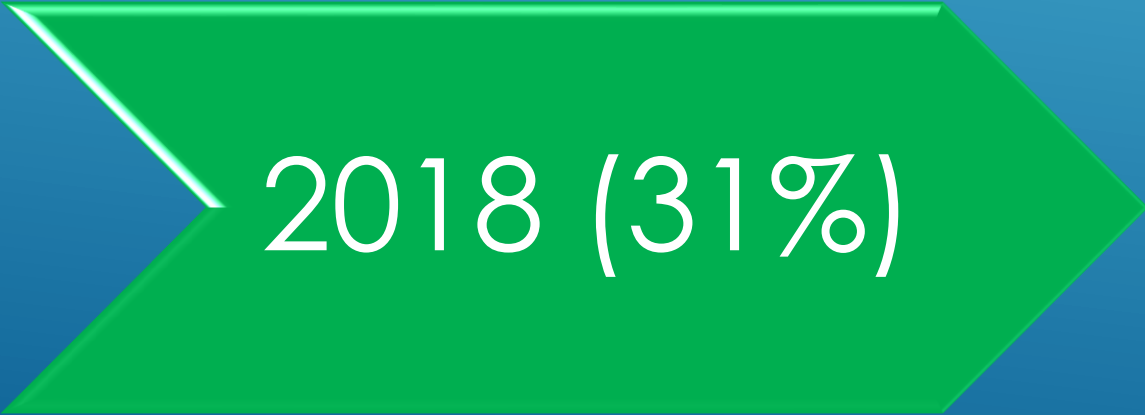
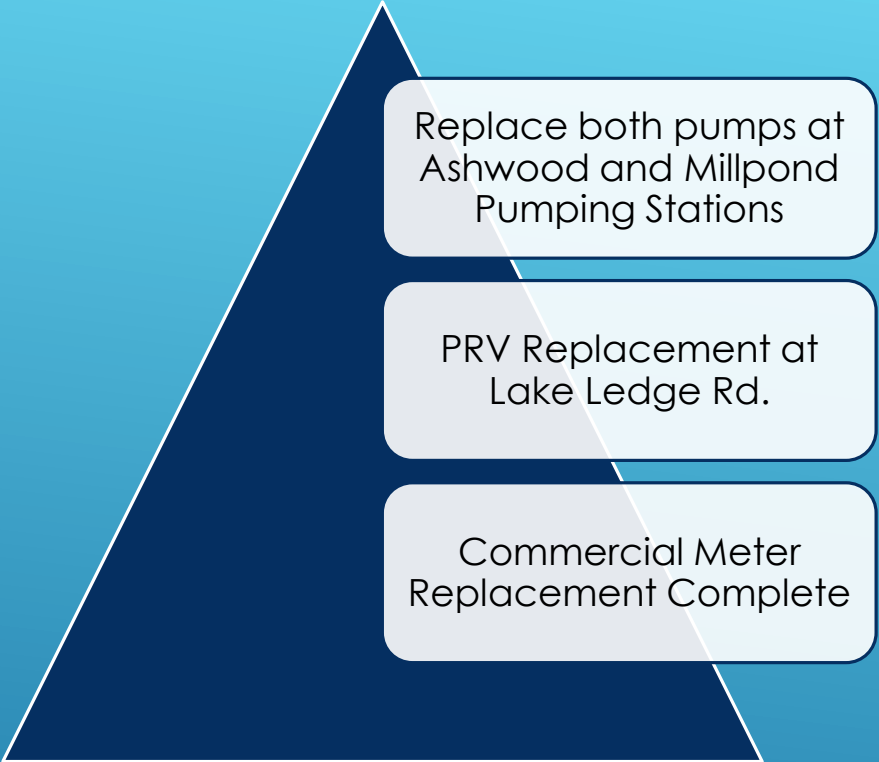
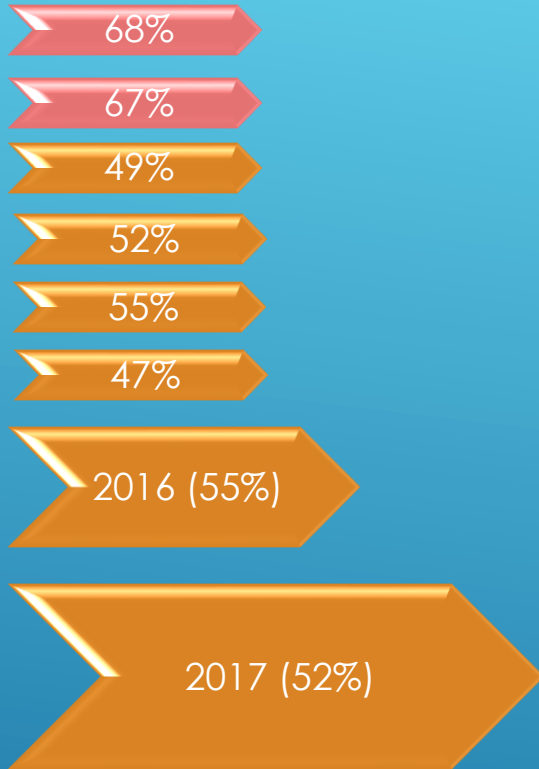
WORK BEGINS TO REMEDY  
THIS SITUATION AND  
PROVIDE A POSITIVE  
OUTLOOK FOR OUR FUTURE



During This Period of time, along with the many improvements listed above, improvements and upgrades were also put in place for the accounting side including meter reading and billing practices.



During This Period of time, accounting practices have proved much more reliable, it has been found that Commercial Meters need to be upgraded to remove more billing error.



THE COMMERCIAL  
METER UPDATE WAS  
THE FINAL KEY TO  
ACHIEVING  
ACCOUNTING  
INTEGRITY

## ▶ Utility Projects Completed from 2010 – 2019

- | ▶ Year          | Project Description                                                                |
|-----------------|------------------------------------------------------------------------------------|
| ▶ 2010          | Summit pump replacement                                                            |
| ▶ 2010          | Summit SCADA replacement                                                           |
| ▶ 2010          | Leak detectors installed and moved every month (except winter)                     |
| ▶ 2010          | Obtained \$50,000 grant and completed combined Water/Sewer Utility study           |
| ▶ 2010          | Reroofed all lift stations and pump houses                                         |
| ▶ 2011          | Spruce Hollow and Parkway altitude valve replacement                               |
| ▶ 2011          | Water treatment plant band-aid                                                     |
| ▶ 2011-2012     | Eight hydrant flushers built and installed                                         |
| ▶ 2011          | Completed \$1,000,000 radio read meter project                                     |
| ▶ 2011          | Converted utility reading/billing from quarterly to monthly                        |
| ▶ 2012          | Backwash pump station rebuild                                                      |
| ▶ 2012          | Eight tank mixers built and installed                                              |
| ▶ 2012          | Back wash basin cleaning                                                           |
| ▶ 2012-2016     | Hydrant upgrade replacement (18)                                                   |
| ▶ 2013          | Pinnacle Inn generator replacement                                                 |
| ▶ 2013          | Mill Pond generator installation                                                   |
| ▶ 2013          | Service pump replaced at Water Treatment Plant                                     |
| ▶ 2014          | Sludge removal at Water Treatment Plant and Pond Creed Waste Water Treatment Plant |
| ▶ 2014          | Parkway pump station upgrade control panels, 2 pumps and motors (VFD)              |
| ▶ 2014          | Pinnacle Inn control replacement                                                   |
| ▶ 2014          | Slopes pump controls replacement (VFD)                                             |
| ▶ 2014          | Ashwood and Millpond surge valve replacement                                       |
| ▶ 2015          | Greenbriar PRV replacement                                                         |
| ▶ 2015          | Ashwood generator installation                                                     |
| ▶ 2016          | Ashwood control panel electric replacement (VFD)                                   |
| ▶ 2017          | Spruce Hollow to Parkway water line replacement 1.4 m                              |
| ▶ 2017          | Water treatment plant new 6m                                                       |
| ▶ 2017          | Millpond control panel upgrade VFD                                                 |
| ▶ 2017          | CIP and rate molding analysis McGill Associates                                    |
| ▶ 2018/19       | Both pumps Ashwood/millpond PS replaced \$300,000                                  |
| ▶ 2018          | PRU replacement Lake Ledge Rd                                                      |
| ▶ 2018          | 2" water meter replacement project                                                 |
| ▶ 2018/19       | Buckeye Lake drain valve evaluation                                                |
| ▶ 2018/20       | Charter Hills/Spring Branch 2" water line upgrade                                  |
| ▶ 2018          | Water system model complete by west As.                                            |
| ▶ 2019/20       | Pond Creek Sub basin SCADA project (underway)                                      |
| ▶ *unspecified* | Grassy View lift station replacement                                               |
| ▶ *unspecified* | Grassy View basin sewer line and man hole rehab                                    |
| ▶ *unspecified* | Water treatment plant replacement to bid June 30th 2015                            |
| ▶ *unspecified* | Grassy Gap Waste Water Treatment Plant airline/diffuser replaced                   |
| ▶ *unspecified* | Water line assessment underway first (6) project on board                          |
| ▶ *unspecified* | Line feed system installed at water treatment plant                                |
| ▶ *unspecified* | Water tank repair under way                                                        |
| ▶ *unspecified* | 609 submitted to State for raw water intake                                        |
| ▶ *unspecified* | Telemetry replacement at water treatment plant                                     |
| ▶ *unspecified* | Completed \$750,000 Buckeye lift station and installed 2000' of new sewer line     |
| ▶ *unspecified* | Began manhole renovation project                                                   |
| ▶ *unspecified* | Renovated Golf View lift station                                                   |
| ▶ *unspecified* | Implemented water treatment lime program                                           |
| ▶ *unspecified* | Water tanks scheduled for painting 2015/16 budget                                  |
| ▶ *unspecified* | Both pumps Ashwood/Millpond PS replaced \$300,000                                  |
| ▶ *unspecified* | Pond Creek WWTP supplemental blower project                                        |
| ▶ *unspecified* | WWTP L/S Telemetry upgrade (underway)                                              |

THANK YOU FOR YOUR SUPPORT!

WE CONTINUE TO SEEK AND IMPLEMENT  
THE MOST EFFECTIVE AND EFFICIENT  
MEASURES FOR THE FURTHERANCE OF THE  
TOWN OF BEECH MOUNTAINS  
COMPREHENSIVE GOALS

- ▶ All data provided is also reflected on the annual reporting requirements and can be found at the North Carolina Local Water Supply Plan website.
- ▶ Project Data Provided by TOBM Dept. of Infrastructure