

### 2006 – 2011 Summary

- In 2006, Mine Hill Township billed for 76,808,903 gallons of water.
- In 2011, Mine Hill Township billed for 64,334,983 gallons of water.
- **Drop of 16% over this 5 year period even with additional users on the system!**

### Where did it go???

- Is the MUA calculating our usage incorrectly?
- Are there a large number of leaks?
- The water tower as an "Urban Legend"!
- Aging water meters...



### MUA Calculations

- The MUA provided us with a printout of their calculations for 2010. Water Collector double checks the numbers and the math worked.
- MHT water technician sent to read MUA meters each morning to ensure proper reporting. Based on these findings there was no problem with reporting.



### Large # of Leaks?

- In October 2011 a comprehensive Leak Detection survey was performed by 'New Tech Northeast Water Technology'.
- 19 leaks were found. They included:
  - 2 "Service" leaks – Homeowner side of curb box (1 has been repaired by owner, shutoff pending on other)
  - 1 "Service" leak – Township side
  - 2 "Pressure Reducing Valve" leaks - parts are now on site and work should begin shortly
  - 11 "Fire Hydrant" leaks – being addressed by priority
  - 3 "Main" leaks – depth of lines precludes us from handling 2 of these in house

### Leaks by Class

- Leak class 1 is an estimated loss of over 15 gallons per minute
  - 2 in system – the two main leaks are in this class
- Leak class 2 is an estimated loss of 5-15 gallons per minute.
  - 2 in system – Service & Pressure Valve
- Leak class 3 is an estimated loss of less than 5 gallons per minute
  - 15 in system – 11 hydrants, 1 Pressure Valve, 2 Service, 1 Main



### Water Tower

- According to MUA, the purpose of the water tower is to maintain pressure and flow in their systems.
- Upon demand water flows out, down Route 46 and into the MUA's system.
- Filling the tank again when running low means spikes in flow into Mine Hill.
- Overflow, according to the MUA, is just an "Urban Legend"

### Urban Legend in Action

- Mine Hill Township DPW staff took this clip of storm water grates that were expelling "overflow" from the tower.
- I asked MUA if this could be metered and was told that we would have to pay approximately \$8,000 for the equipment to do so.