


Chapter Four Outline

- I. "I just thought, We gotta get these things running again." (page 95)
 - A. The chapter starts out with Eric Wilson talking about what it is like 10 days after hurricane Ike and how everything has changed and how horrible it really is.
 - B. Galveston Texas Hurricane Ike 2008 (Category 2)
 - C. "I'm in the bathroom in the dark, washing away the day's grime. I'm holding a flashlight in my mouth, and thinking about what it means to wash your hands with water that isn't safe to drink." (page 89)

 - II. "Ignorance doesn't matter, until things start to go wrong." (page 91)
 - A. We, as a society, are in fact ignorant to the fact what we use and waste water wise. And just like the first quote says and the second quote helps to prove, we don't even realize how much it is that we waste until we'd be put in a situation where we didn't have our usual resources. We would be completely lost.
 - B. "It isn't often that a good size American city has both its water system and its sewage treatment facilities completely obliterated in a single swipe- it isn't often, that is, that you get to see what a modern American city with no routine water service feels like." (page 90)

 - III. "You gotta have a plan B." (page 95)
 - A. It really hit the citizens of Galveston after the hurricane how bad the situation of their water was when it was something they no longer had. It was something that made the people who worked in water treatment plants and worked with water
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realized there should have been a backup plan all along so it didn't cause issues to the extent it did.

- B. Working in a place where things can so easily go wrong, he said he doesn't only have a plan B but his plan B also has it's own plan Z.
- IV. "We have a disaster. It's just not one you can see." (page 101)
- A. What we take for granted is not the water itself, of course, but also the work and amount of money it takes to provide instant safe water
 - B. \$29 billion a year in the United States just to keep up with deteriorating water pipes and aging water treatment plants.
- V. "These babies are definitely not plug and play"
- A. At 59th street pump station new motors could not connect to the old pumps
 - B. 30th street pump station power went out and was pretty much destroyed
 - C. The Airport pump station relied on inefficient natural gas for emergencies
 - D. Eric wilson wanted pumping stations to be "bulletproof" or impenetrable from any storm with help from (FEMA)
 - E. Wilson wanted to make sure that Galveston would be prepared next time if a natural disaster ever occurred.



Names

Dr. Salter

Water

17 October 2012

Chapter 4 Outline

Title: "Water Under Water"

Setting: Chapter 4 takes place in the coastal community of Galveston Texas during Hurricane Ike which occurred in late September 2008. Significant locations in the chapter include the Comfort Inn Hotel and Galveston's water and sewer buildings.

Main Characters: Charles Fishman and Eric Wilson are the chapter's main characters. Fishman is living in Galveston's Comfort Inn Hotel where he is basically trapped because of the destruction that Hurricane Ike caused. Eric Wilson was Galveston's director of utilities at the time of the storm; his job mainly consisted of maintaining the city's water and sewer systems.

Protagonist: Eric Wilson

Antagonist: Hurricane Ike and it's destruction of Galveston's water and sewer systems.

Major Conflict: Hurricane Ike has wiped out Galveston's water and sewer systems causing the city's residents to stay outside of the city until the water is turned on.

Resolution: Eric Wilson, Galveston's city staff, FEMA, the navy and private contractors worked around the clock to restore the water system in Galveston after eleven days despite countless setbacks and frustration.

Themes: Dependence of water and sewer systems, High usage of water by Americans, Taking water and water systems for granted, Always be prepared

5 Significant Sentences

Without routine water service it is hard to imagine civilization proceeding.

It (water) may be the most fundamental need beyond air, the one thing without which we cannot make it through a single day.

The average American uses 99 gallons of water a day at home; that's 750 half-liter bottles of water, the most common size in which we buy our indispensable Poland Spring and Evian.

The National Weather service issued an unvarnished "leave or die" hurricane warning for Galveston and the nearby coastal communities.

Eric Wilson's core utility operating philosophy is, in his words, "You gotta have a Plan B."