

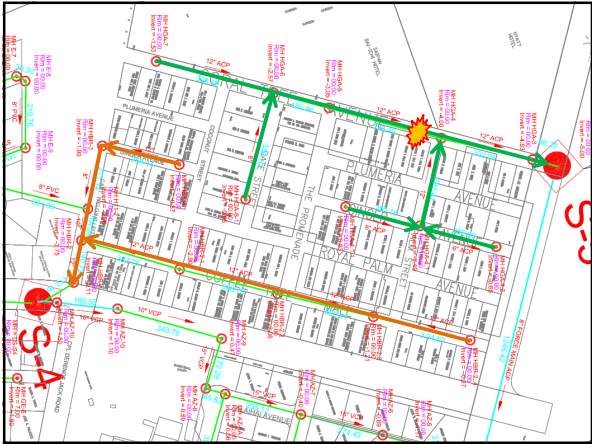
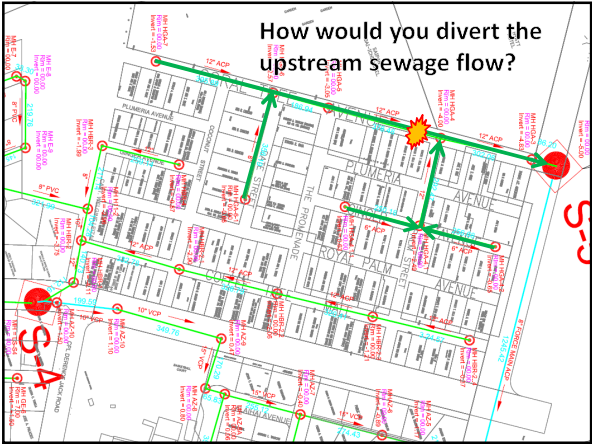
First Step:

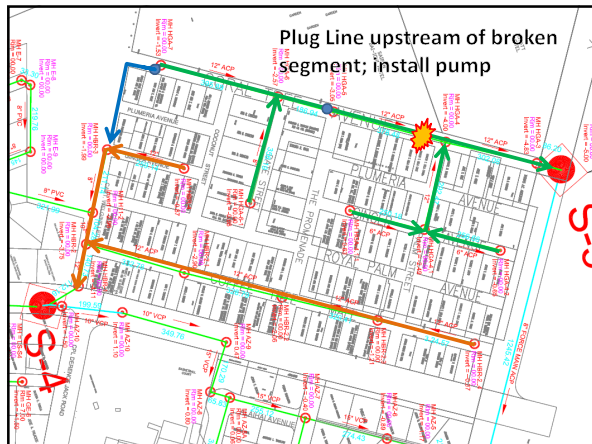
- CUC Expedited Procurement Regulations!!!  
— Prepare for an exciting presentation!!!!

**JUST KIDDING!**

First Step:

- Divert the sewage around the blockage  
— PREVENT AN OVERFLOW!!!!






## Second Step:

- Repair the Collapsed Pipe

How would you repair a collapsed asbestos cement pipe?



- Hydrogen Sulfide Attack



- Replace entire section of pipe



Challenges?



High Water Table  
  
~3 ft. below pavement



- Extensive Dewatering











Fill up to final  
12 inches with  
~150-250 psi  
flowable fill



Final 12 inches:  
700 psi (DPW  
Requirement)



**Danger!!**



What do you think  
is going to  
happen next?

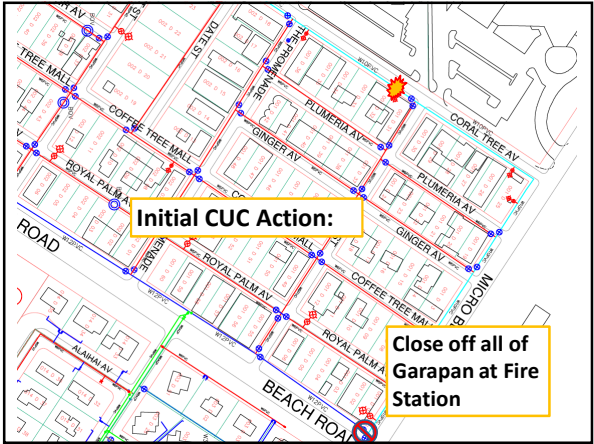
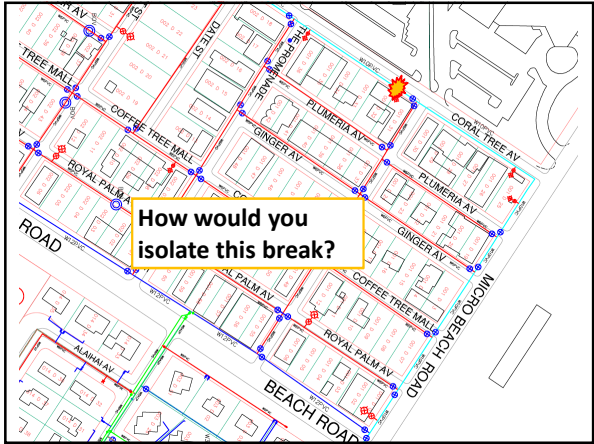
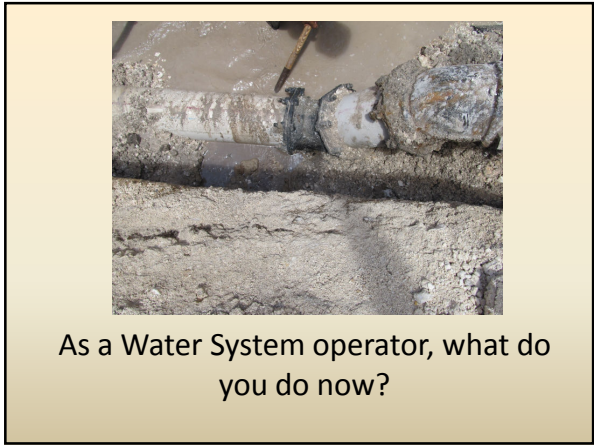
### Third Step:

- Break Water Main

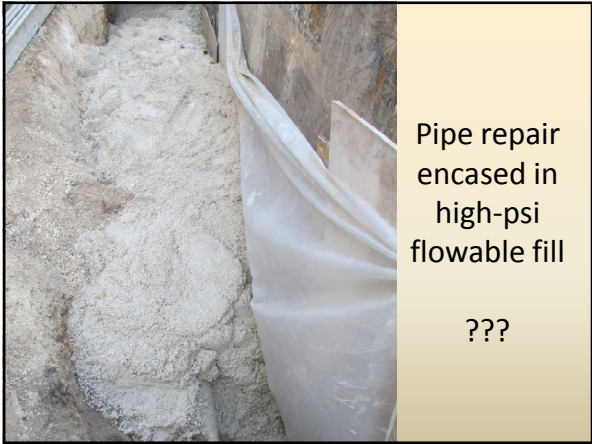
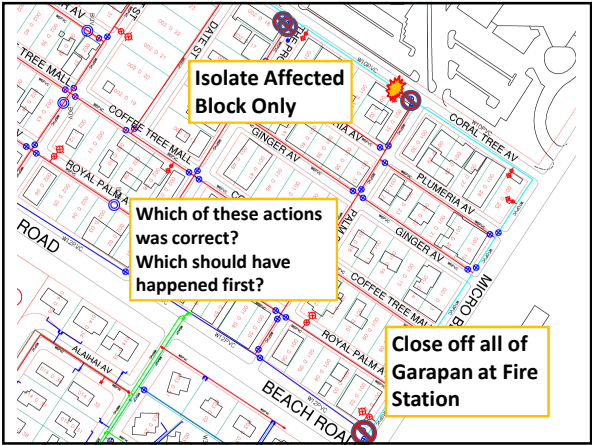
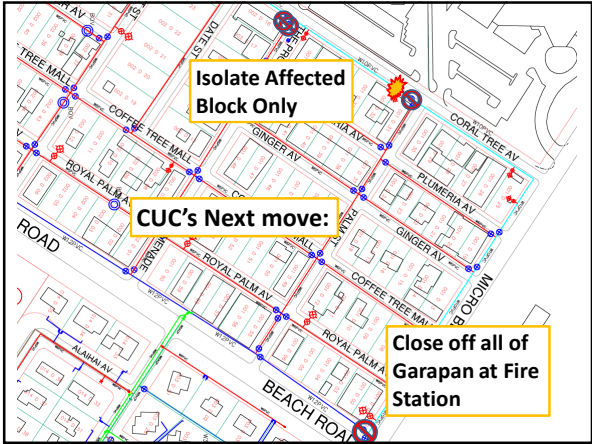
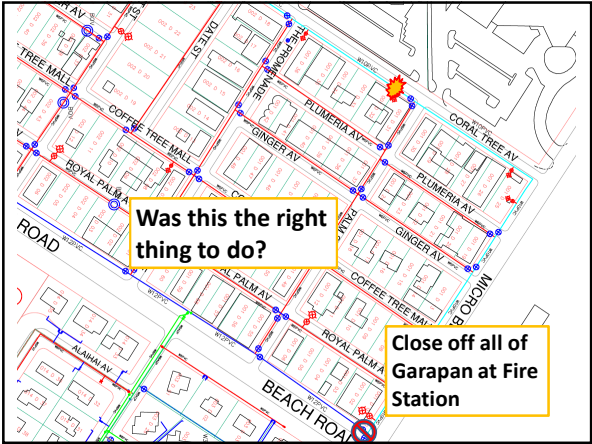


10 inch Water  
Main break:









### Disinfection procedures:

- What would you do to ensure the line is clean following this break?

### Disinfection procedures:

- Superchlorination:
  - 50ppm for 24 hours OR: 100 ppm for 6 hours
- Flush line
- Sample
- Keep closed until results from sampling come back clean



### Project Summary

- 367 linear feet of 12-inch ACP sewerline replaced with new 15-inch PVC
- From initial report of blockage to completion of construction: 14 days
- Construction period: 10 days
- No overflows
- No change orders
- Side benefit: odor at curbside & Park drainage – gone?