



April 2013

Two Utilities - Two States - Two Scenarios

#1 – Flash Flood

#2 – Slowly Rising Water

A Chicago Suburban Village April 18, 2013 Widespread Rain Event and Significant Flooding

Chicago's Wettest April On Record in 143 years



Village SCADA System: 62 miles of Collection System

19 Sanitary Sewer Lift Stations

4.7 MGD Daily Average & 10 MGD Max



“Chicago's Wettest April On Record: City Sees Most Rainfall This Month In 143 Years Of Data”

USNEW.NBCNEWS.COM

“The weather was said to be responsible for two deaths.”

“...flooding in the Chicago area closed major expressways and led the evacuation of residents stuck in flooded homes, apartments and a hospital.”



“This month has officially been the wettest April on record”

“The deluge caused a water main break on Chicago’s South Side and the gushing water opened up a sinkhole that swallowed three cars.”

“Gov. Pat Quinn declared a state of emergency across Illinois.”

“Rain on Tuesday pushed the city's April total -- **8.54 inches through midnight** -- past the previous record of 8.33 inches set in 1947, according to the Chicago Tribune.”

Widespread Flooding Occurred on April 18, 2013

6" rainfall



Grit Removal System

○ Before



○ After



Email to City Manager

THIS IS GOING TO BE A HISTORIC FLOOD. THE NATIONAL WEATHER SERVICE IS CURRENTLY PREDICTING THE RIVER TO CREST SUNDAY LATE AT 19.6' (THAT'S 2.5' HIGHER THAN THE FLOOD OF 2004). THE CURRENT WET AREAS ARE FROM THE RAINS, WHAT IS COMING IN THE NEXT COUPLE OF DAYS WILL BE MUCH WORSE THAN WHAT IS HAPPENING NOW. WE NEED TO GET THE WORD OUT. IF THE NWS IS RIGHT MOST OF THE DOWNTOWN AREA WILL HAVE SIGNIFICANT FLOODING.

Before the Flood

- Sealed up lift station
- Arranged for transportation to plant- Managers boat
- Got generator fuel up to plant
- Filled out safe work plan for boating
- Forwarded NWS Links to home computer







NON-PORTABLE WATER
DO NOT DRINK

FUEL
OIL

DANGER
COMPLEX
SPACE















































Additions to the Emergency Response Manual- Lessons Learned

- Make necessary notifications- DPW, PD, CM, DEQ, etc.
- Make arrangements for a boat AND test drive it
- Have temporary 1000 gallon fuel oil tank delivered and filled
- Have DPW secure at least 3- 1000 gpm portable pumps
- Check chemical inventory and order as needed
- Work with team approach
- **Move portable generator to alternate location**

Challenges and Successes

Challenges

- Transportation
- Generator fuel

Successes

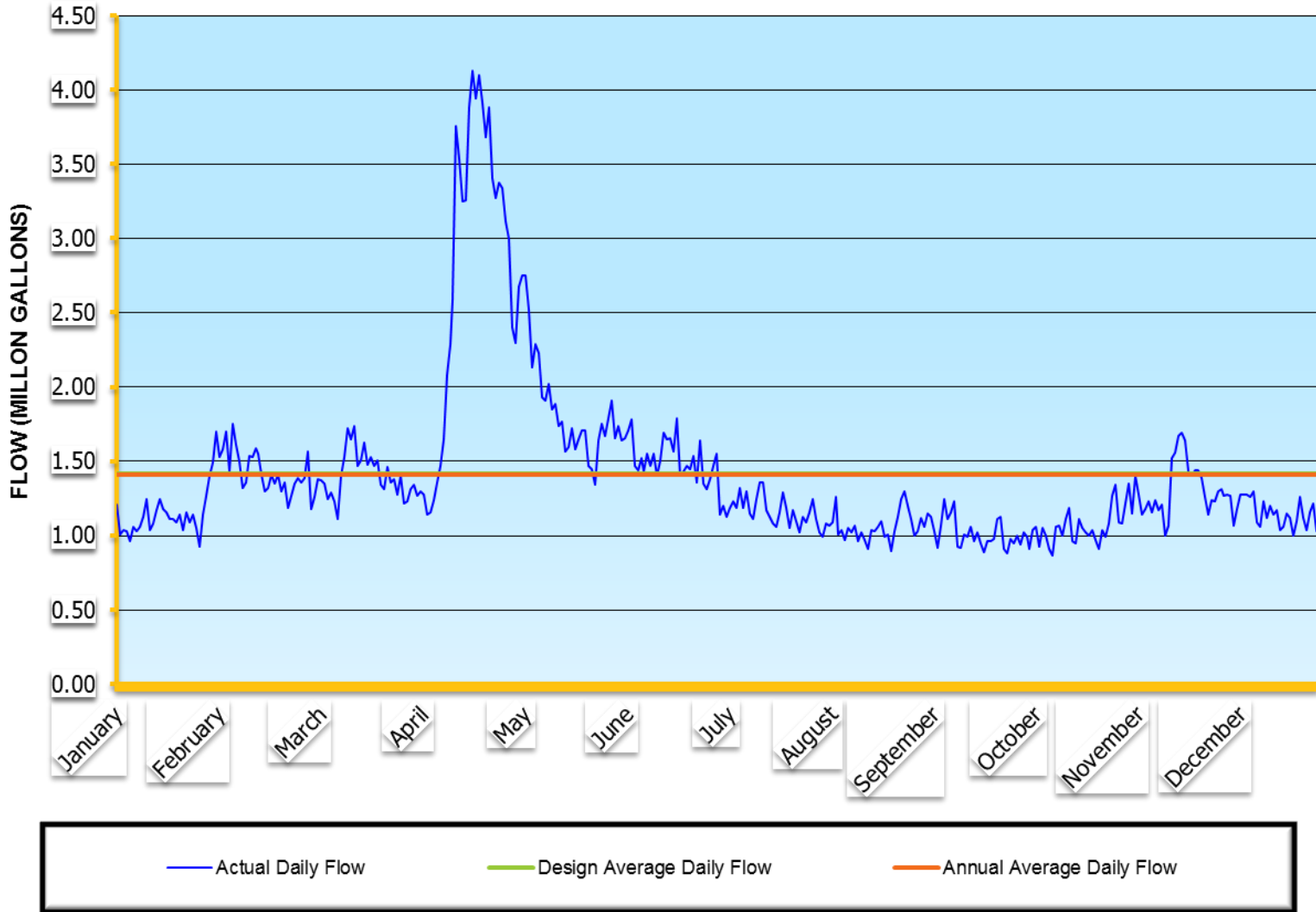
- Working closely with City Manager
- Interdepartmental cooperation
- No mechanical issues
- No compliance issues

Follow Up Still Pending

- Raise the electrical switch gear
- Raise the phone box



2013 DAILY FLOWS



2014 Procrastinators Workshop



QUESTIONS?



