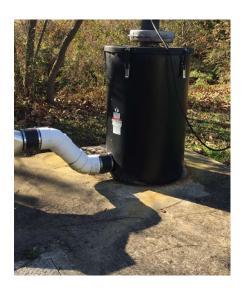
# MSD Odor Mitigation Update

Mayor's Press Conference July 30, 2024





# Mitigation Methods



Carbon Canisters:
odorous air is moved
through activated
carbon canisters and
odors are adsorbed
onto the carbon



Biofilters:
odorous air is blown through
wood chips to mitigate odor
through natural oxidation



Chemical
Treatment:
addition of
bioxide at pump
stations

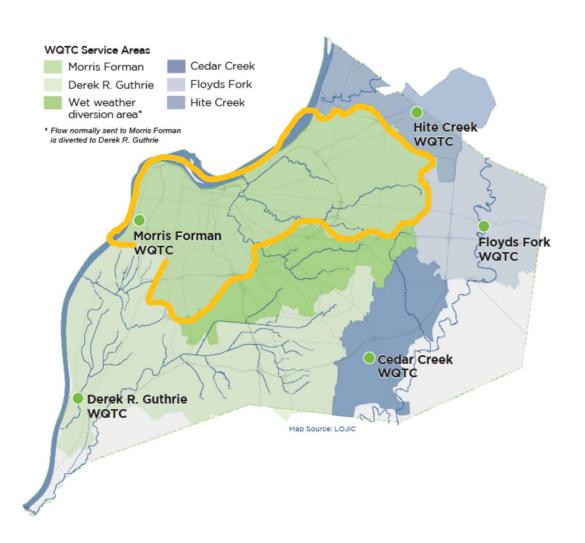


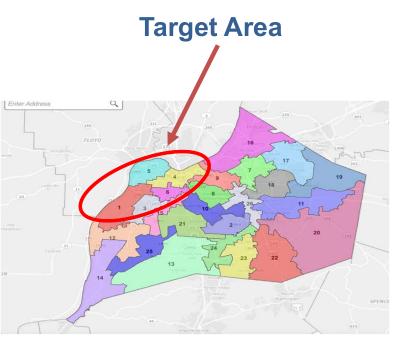
Biological
Scrubbers:
odorous air is blown
up through a packed
bed of media to
reduce odors





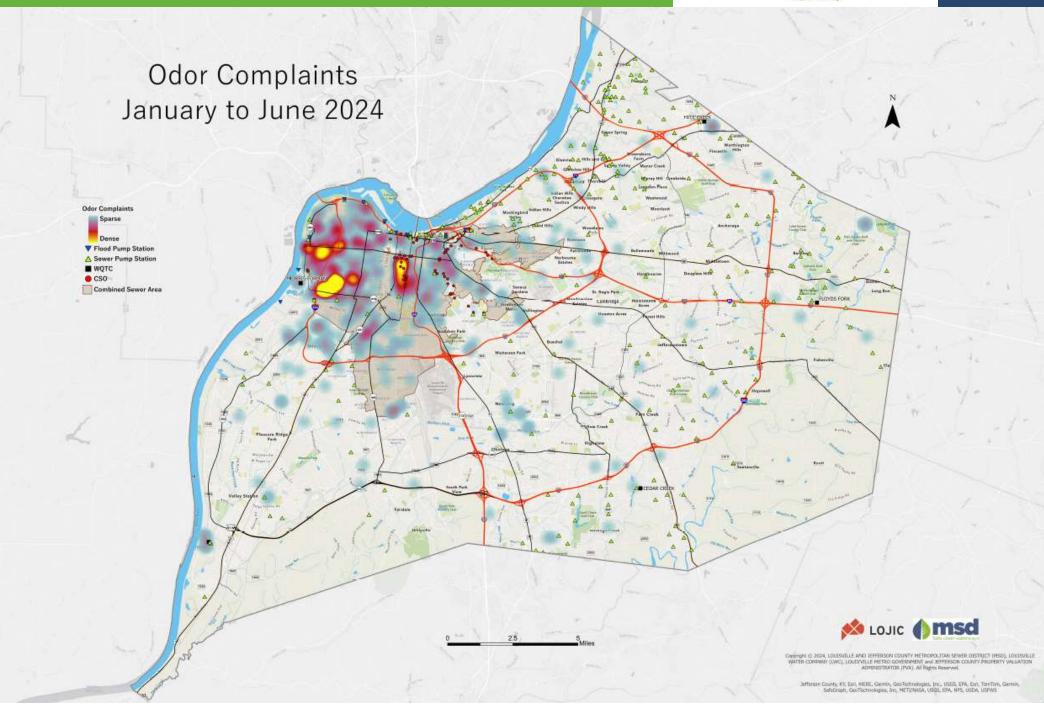
# Morris Forman WQTC







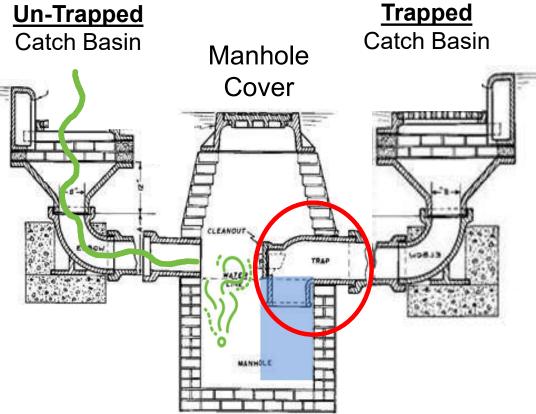


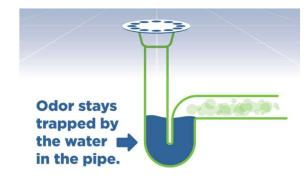




# **Combined Sewer System**



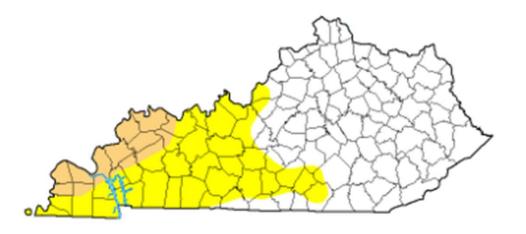


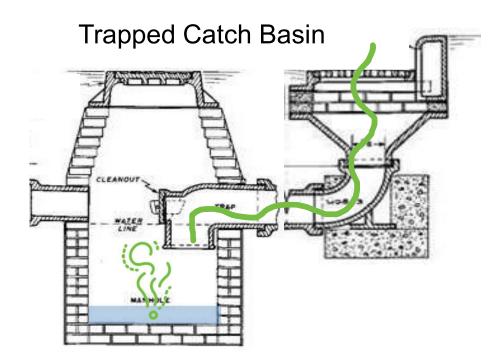






## Impact of Dry Weather





Kentucky has experienced drought and dry spells in recent years.

With a combined sewer system designed to be self-cleaning, less water flowing through the system contributes to increased odor.

For instance, even trapped catch basins can experience odor during extreme periods of dry weather.



## **Odor Mitigation Response**

- Clean, flush and deodorize Catch Basins
- Flush Sewer Lines
- Replace missing or damaged Catch Basin Plugs
- Adjust Chemical Feeds at Pump Stations and Treatment Facilities
- Louisville Water Hydrant Flushing
- Adding Water to Trapped Catch Basins









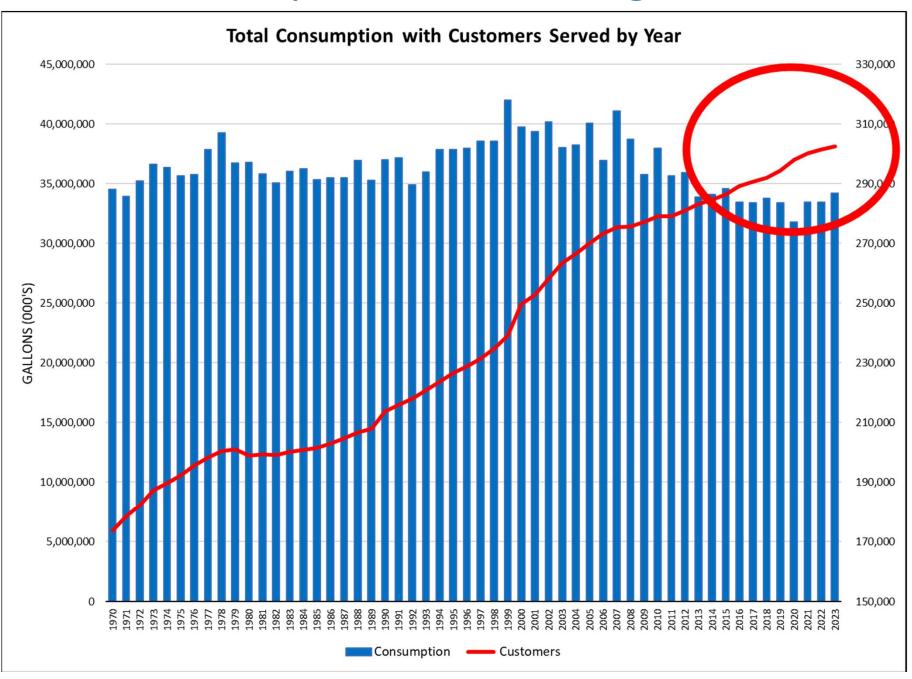
## Morris Forman WQTC

- \$255 million project underway
- Will replace biosolids processing facility with a state-of-theart system





# Water Consumption Decreasing





inches of rain produces

Louisville Water's daily customer consumption

billion gallons of water over the community

150 million gallons of drinking water



## Catch Basin Replacement Program



A series of construction projects are complete, under construction, or in the bidding process for 422 catch basin replacements covering five neighborhoods by the end of 2025.

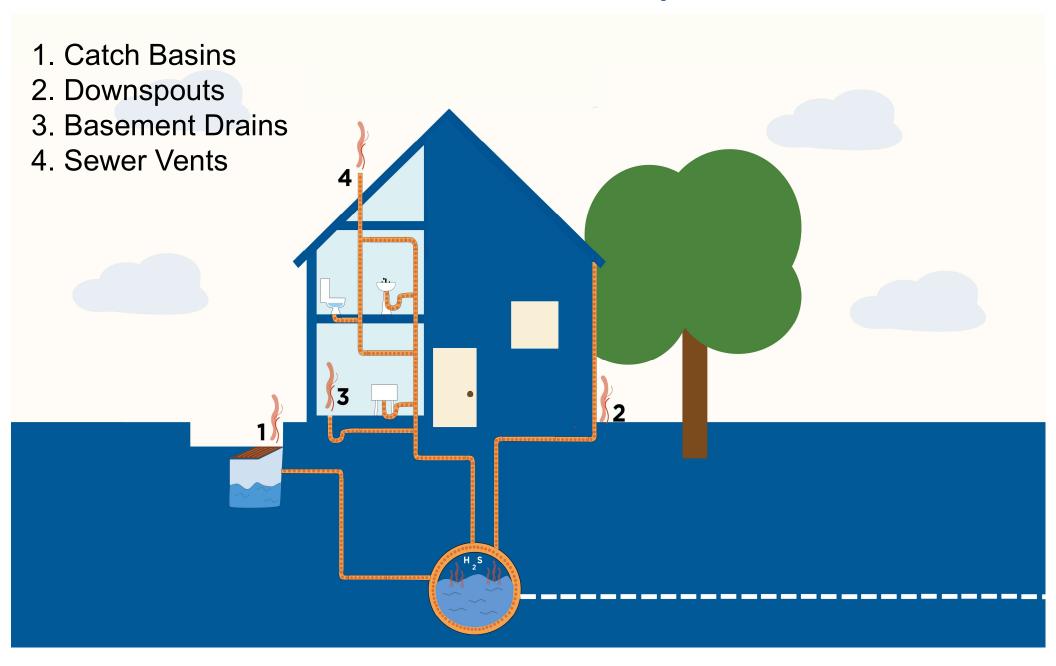


# Catch Basin Replacement Program

Neighborhood	Phase	Budget	# of Catch Basins	Timing
Park DuValle	Phase 1 Phase 2	\$160,593 \$213,000	12 catch basins 6 catch basins	Complete Complete
California	Phase 1 Phase 2 Phase 3 (Maple St.)	\$262,821 \$734,000 \$325,000	15 catch basins 40 catch basins 20 catch basins	Complete Estimated completion: October 2024 Bids projected for August 2024
Shawnee	Phase 1-2 Phase 3 Phase 4-6	\$400,000 \$1.3M \$1M	202 total catch basins	Estimated completion: May 1, 2025
Chickasaw	Inspection complete	TBD	73 catch basins identified for replacement	Bid documents in development
Taylor Berry	Inspection complete	TBD	54 catch basins identified for replacement	Bid projection - September 2024
Russell	Inspection complete	TBD	747 catch basins identified for replacement	Will be programmed in future capital improvement budgets in phases



# Potential Sewer Odor Pathways





### Communications to Date



- Post cards sent to customers in high odor areas informing of clAIRity Meetings
- Odor Season letter sent to customers in high odor areas announcing "Odor Season"
- 2 of the 5 scheduled clAIRity meetings held
  - April 23: MSD Central Maintenance Facility
  - June 26: Western Public Library
- Metro Council/Community Meetings
  - District 5 Metro Council Meeting on May 30
  - Old Louisville Neighborhood Council – District 6
  - Bishop's Table (Gospel Missionary Baptist Church)





# **Up-Coming Community Meetings**

### **Tuesday, August 27**

Shawnee Library 3912 W. Broadway

6:00 - 7:00 p.m.

### **Tuesday, October 15**

MSD Central Maintenance Facility

3050 Commerce Center Place

6:00 - 7:00 p.m.

### **Tuesday, October 24**

Norton Healthcare Goodwill Opportunity Center 2820 W. Broadway

1:00 - 2:00 p.m.



# Questions