

# Information Item: Odor Control Update

Jeff Schwarz, Project Manager, Technical Services

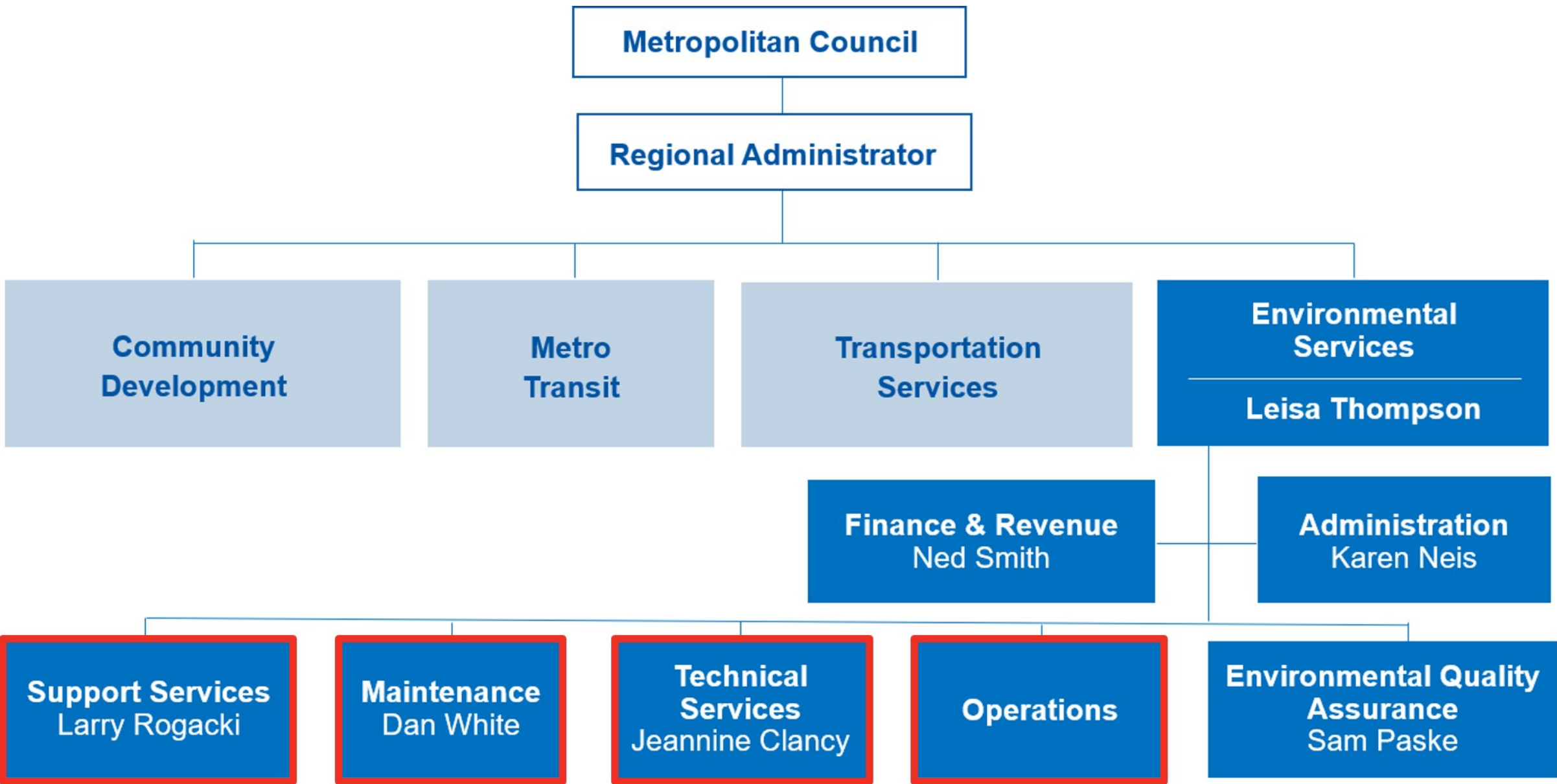
Lisa Wolfert, Principal Environmental Scientist, Support Services

Environment Committee: June 23, 2020



# Odor Management Team

Chartered by ESET in Fall 2018



**Customer Level of Service:**  
Be a good neighbor



Minimize the impact of ES facilities on communities

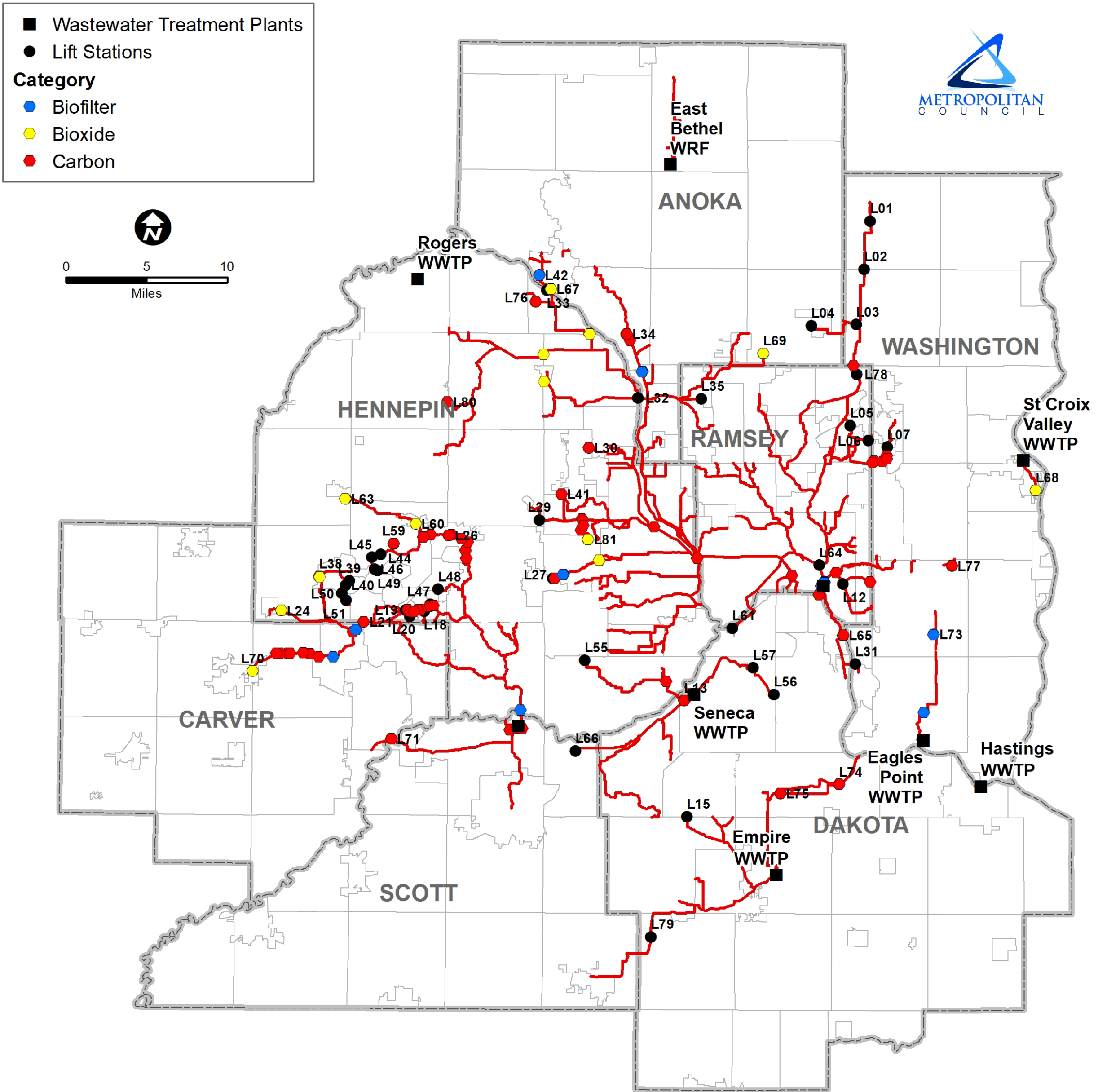


Provide consistent odor management performance



Respond to reports of odors in a timely manner

# Odor Management Assets



## Existing Odor Control Technologies

- 39 carbon units
- 8 biofilters
- 13 Bioxide injection points
- 46 passive carbon inserts
- 4 chemical scrubbers
- 1 biotrickling filter

# Performance Monitoring and Odor Evaluations

2020 Monthly Odor Control Testing Report



Interceptor System	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	S
Battle Creek Meter Station (M003) OCU - Down									
Bloomington Meter Station (M500A) OCU									
Brooklyn Park Lift Station (L32) OCU #1		O		H					
Brooklyn Park Lift Station (L32) OCU #2 - Offline									
Burnsville Lift Station (L13) OCU		O							
Chaska Lift Station (L718) OCU					O				
Coon Rapids Lift Station (L34) OCU - Down									
Crystal Lift Station (L30) OCU		O							
Golden Valley Lift Station (L81) OCU - Down									
Hopkins Lift Station (L27) OCU	O								
Lake Virginia Lift Station (L21) OCU					O				
Long Lake Lift Station (L60) North OCU		O							
Long Lake Lift Station (L60) South OCU					O				
Mound Lift Station 38 (L38) OCU					O				
Mound Lift Station 39 (L39) OCU	O				O				
New Hope Lift Station (L41) OCU - Down									
Portland & Wash. Reg. Station (#7) Upper OCU	O				O				
Portland & Wash. Reg. Station (#7) Lower OCU	O				O				
Riverview Siphon Headhouse OCU		O			O				
Rosemount Lift Station 74 (L74) OCU				H					
Rosemount Lift Station 75 (L75) OCU									
St. Louis Park Meter Station (M132) OCU		O							
Victoria Odor Control Facility OCU		O			O				
Wayzata Lift Station (L26) OCU					O				
West Meters Odor Control Building OCU #1	O	O	O	O	O				
West Meters Odor Control Building OCU #2	O	O	O	O	O				

Odor Control Unit Rating Legend

No Testing Conducted	
Satisfactory Odor Removal Performance	O
Moderate Malodorous Emissions; Potential Problem	O
Strong Malodorous Emissions; Immediate Odor Problem	H
Continuous H2S Monitoring Conducted	H
Odor Testing Conducted	O

For detailed rating criteria see the link below:  
[Monthly Odor Control Testing Report Color-Code Rating Criteria](#)

- Ensure equipment is operating as it should
- Analytical equipment to quantify specific odorants
- Odor panel evaluations
- Internal performance criteria established

# Small Scale Construction Projects



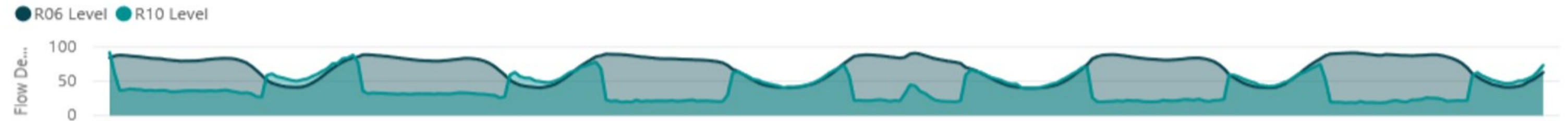
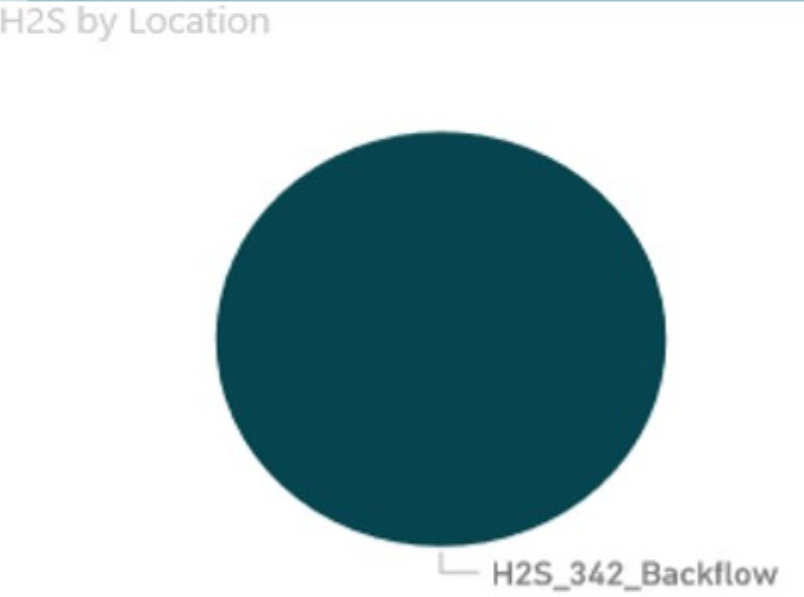
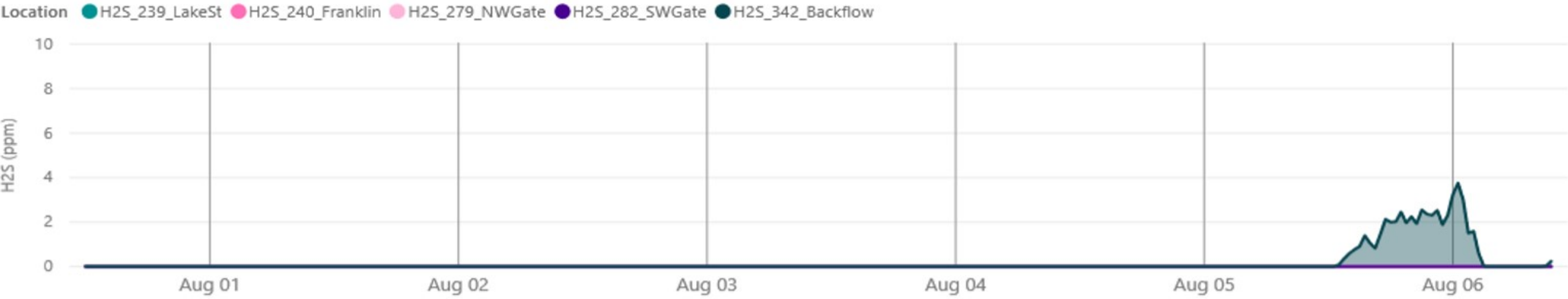
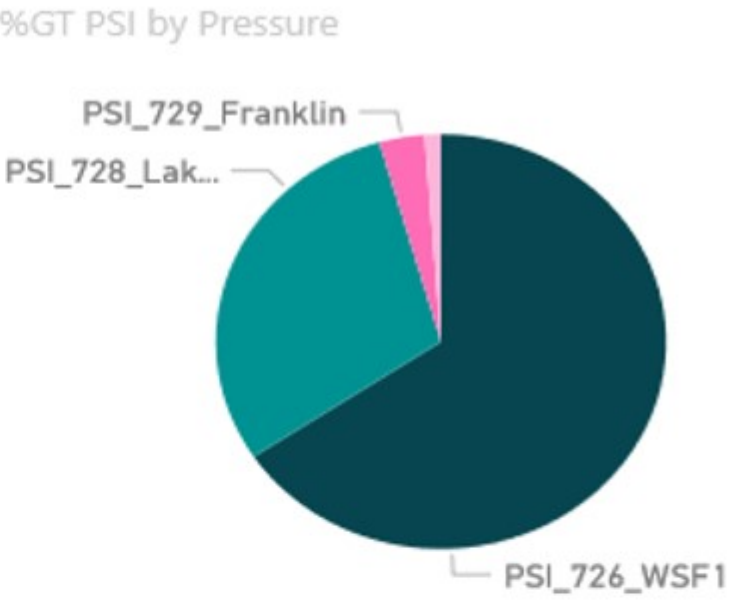
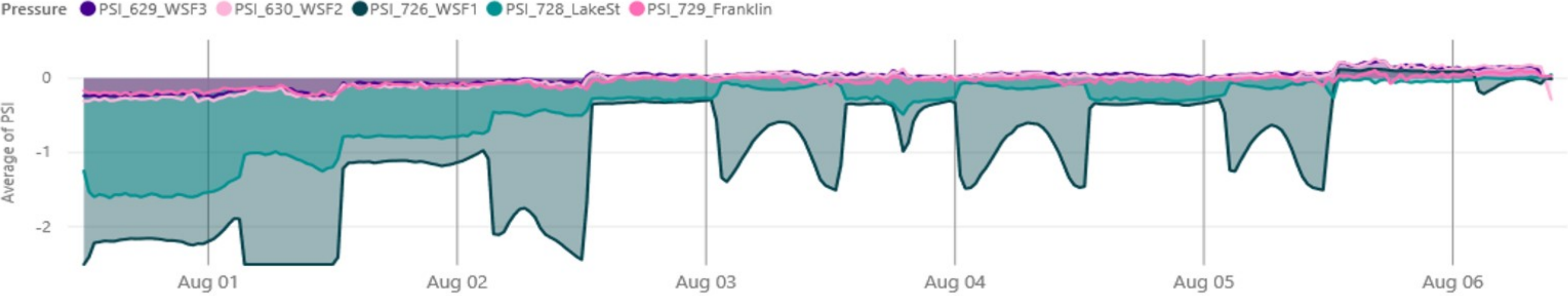
# Odor Report Investigations



# Air Flow Modeling

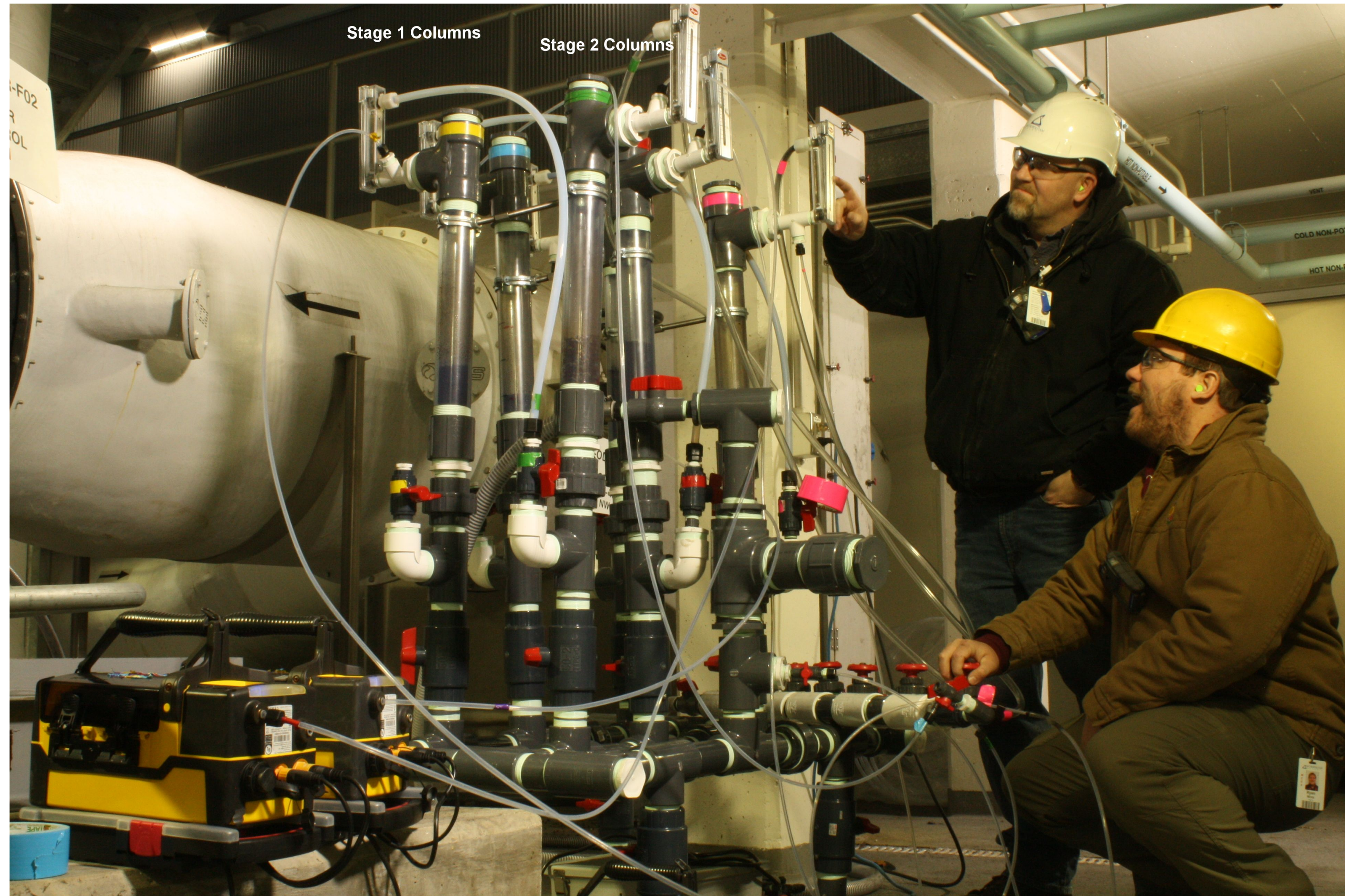
## WMOMF Study - August 2019

- 1: All Closed
- 2: Doors Open, Damper Closed
- 3: All Open



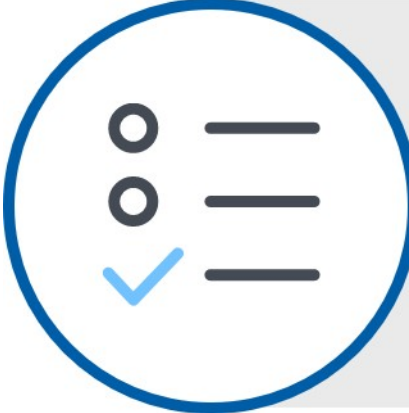
Data removed from 10:00 to 14:00 on August 6 and Aug 10, for transition times between each testing scenario.

# Media Comparison Pilot





# Future Activities



Refine odor reporting and tracking procedures



Facility and operation enhancements



Develop standard design and operation guidelines



Educational staff workshops



# Questions

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