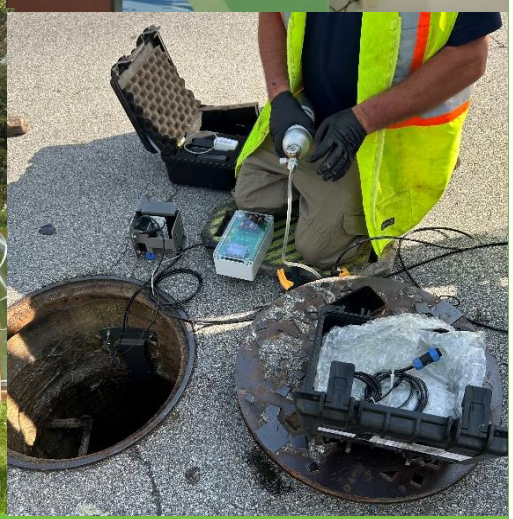
Annual Report

Odor Mitigation

Reporting from July 1, 2024 - June 30, 2025



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Background

As part of MSD's ongoing efforts to mitigate odors in the community, MSD entered into the Second Amended Agreed Board Order No. 21-01 (Agreed Order) with the Louisville Metro Air Pollution Control Board on September 18, 2024. Although odors are a natural part of wastewater and are known for intensifying as temperatures increase, MSD is committed to reducing odors in the surrounding community.

The Agreed Order outlines MSD's responsibilities for developing Action Plans, maintaining a dedicated odor webpage, coordinating community meetings, and providing Mid-Year and Annual Progress Reports. On October 14, 2024, MSD submitted its two-year Short-Term Action Plan, outlining intended odor mitigation efforts between July 1, 2024, to June 30, 2026. The plan was made available for public comment on MSD's odor webpage. No comments were received, and the Action Plan was finalized following the 30-day comment period. Pursuant to the Agreed Order, MSD submitted its Mid-Year report on March 31, 2025, detailing community engagement activities and progress made on Action Plan items between July 1, 2024, and December 31, 2024, which was posted to the dedicated webpage. The Action Plan and Mid-Year Report were submitted to the Louisville / Jefferson County Mayor, Louisville / Jefferson County Metro Council, MSD Board, Louisville Metro Air Pollution Control Board, and the Louisville Metro Air Pollution Control District, and a copy can be found in Appendix A and B.

Pursuant to the Agreed Board Order, MSD submits its Annual Report covering efforts from July 1, 2024, to June 30, 2025. This report will be posted on MSDs odor webpage and delivered to the Louisville / Jefferson County Mayor's Office, Metro Council Members, APCD, and MSD Board.

Community Engagement

During FY25, MSD continued its focus on community engagement with its clAIRity program. The clAIRity program is utilized to inform the community of its progress on odor mitigation efforts and to foster engagement. MSD hosted in-person and virtual clAIRity meetings for the public to ensure all community members have an opportunity to attend. MSD also participated in Metro Council district meetings and neighborhood meetings which included local churches. In addition to the meetings, MSD provided written monthly odor updates to the Louisville / Jefferson County Major's office and to Metro Council Members. The clAIRity monthly updates can be found in Appendix C.

Community Meetings

MSD held five clarity meetings this fiscal year (focus placed on odor season months June – October) and had a total of 47 attendees. The meetings are designed to update the community on outreach efforts, odor response, and odor mitigation projects. Recordings of the meetings are available on YouTube. The community clAIRity meeting agendas can be found in Appendix D. The table below provides the date, location, address, and the number of attendees for each meeting.

Date	Location	Address	# Attendees
August 27, 2024	Shawnee Library	3912 W. Broadway	7
October 15, 2024	MSD Central Maintenance Facility	3050 Commerce Center Pl.	1
October 24, 2024	Norton Healthcare Goodwill Opportunity Center	2820 W. Broadway	6
April 22, 2025	MSD New Office	1600 W Hill St.	5
June 24, 2025	MSD New Office	1600 W Hill St.	28

The clAIRity meetings provide an opportunity for all participants to ask questions and give feedback. Pursuant to the Agreed Order, all questions were answered during the meetings, however, they did not rise to the level of substantive change required for documentation. There are three more clAIRity

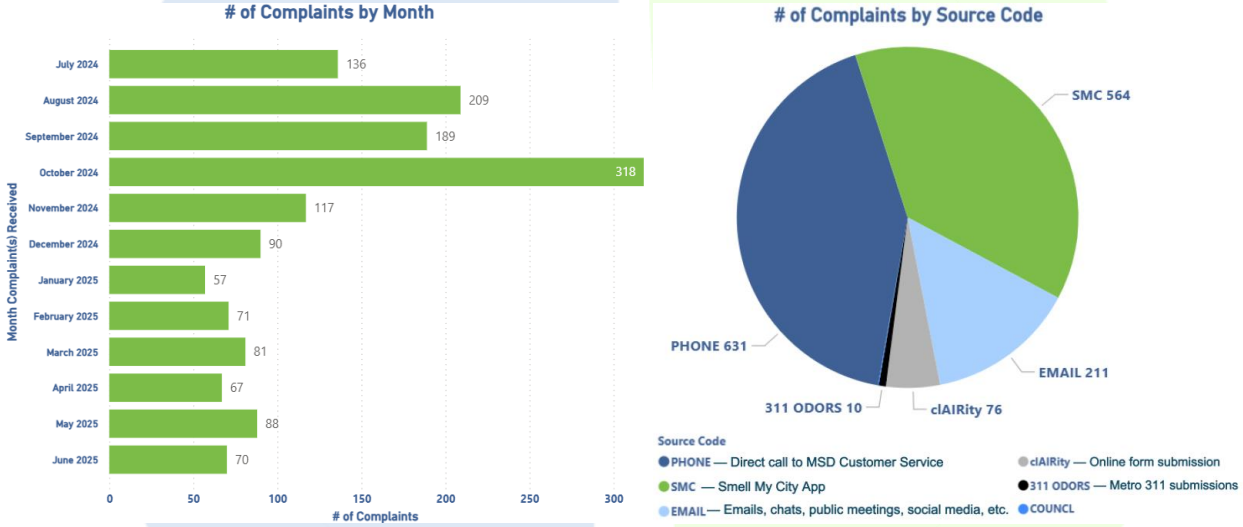
meetings scheduled for calendar year 2025. The meetings will be held at 1600 W. Hill Street at 6pm on August 28th, October 14th, and October 30th. clAIRity meetings will continue in calendar 2026 but have yet to be scheduled.

Odor Response

Improving odor mitigation response is one of MSD's top priorities. To more effectively alert customers of a potential increase in odors, MSD has designated June through October as "Odor Season" and developed additional response activities specific to this period when odors are more prevalent. These activities are outlined in the Odor Response Standard Operating Procedures (SOP) available on the odor webpage.

MSD continues to track and respond to odor complaints received daily and strives to respond to all odor complaints within 24 hours. A new Odor Complaints Tracker is available on the odor webpage and contains a log of all the reported complaints. MSD developed a dashboard for the odor complaints, data can now be searched by date, street name, and Metro Council District. In FY25, a total of 1,493 odor complaints were submitted. Below is a bar chart of the complaints by month and a pie chart indicating how the complaints were received.

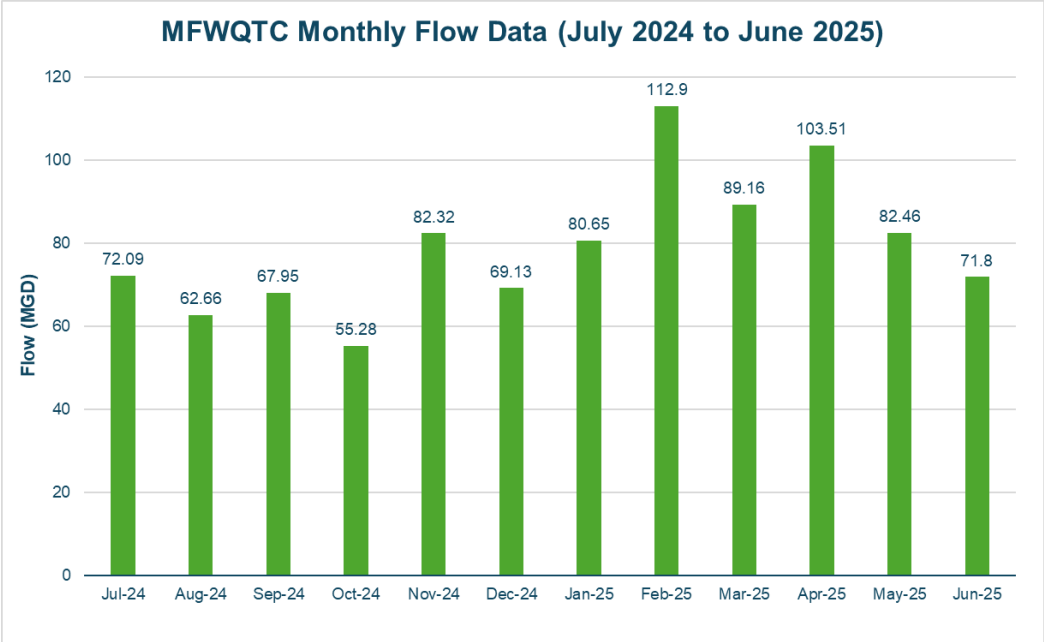
July 1, 2024 - June 30, 2025, Odor Complaints
Total = 1,493



During this reporting period, MSD worked to improve the customer experience related to odors. Customer call backs, letters, on-site meetings, and updates to online reporting functionality were implemented. In fact, in FY25, MSD performed 265 follow-up odor calls and sent 837 letters to customers in response to their odor reports and provided written monthly odor updates to the Louisville / Jefferson County Mayor's office and to Metro Council Members.

Wastewater Flow Data

This flow data represents the monthly flow entering the Morris Forman Water Quality Treatment Center (MFWQTC) during the period covered by this report.



The annual flow for FY25 was 79.16 million gallons per day (MGD).

Short-Term Action Plan Project Updates

This Annual Report includes updates on the Short-Term Action Plan projects that were completed, in progress, or projected to start during the reporting period. For each project, the scope and annual update are provided and organized by category. The scopes outlined in the report were lifted verbatim from the Short-Term Action Plan, ensuring consistency with the original framework. The only new content introduced in this report is the annual update, which reflects the latest progress and developments. These projects are listed in the table below. The identifiers listed correspond to those established in the Short-Term Action Plan which can be found on MSD's odor webpage. A comprehensive list of all projects in the Short-Term Action Plan is provided in the conclusion.

Category	Identifier	Project
Treatment	1	New Biosolids Facility (Morris Forman)
Treatment	2	Sedimentation Basin Rehabilitation (Morris Forman)
Treatment	A	Southwest Pump Station Gas Monitoring and Odor Control
Treatment	B	Odor Management Plan (Derek R. Guthrie)
Treatment	C	Hydrogen Sulfide (H2S) Removal – Digester Gas (Morris Forman)
Treatment	D	Dissolved Air Flotation Thickener (DAFT) Rehabilitation (Morris Forman)
Collection System	E	Western Outfall Sewer Shed Studies
Collection System	G	Grand Avenue Pump Station Chemical Use Study
Catch Basins	I	Catch Basins Inspections
Catch Basins	J1	California Neighborhood
Catch Basins	J3	Shawnee Neighborhood
Catch Basins	J4	Taylor Berry Neighborhood
Catch Basins	J5	East Market (Nulu)

Treatment

1. New Biosolids Handling Facility / Thermal Hydrolysis Pretreatment (THP)

Scope

MSD will continue developing its new biosolids processing facility using the Thermal Hydrolysis Process (THP) at the Morris Forman Water Quality Treatment Center (MFWQTC). The project team plans to finalize the THP system design and sidestream parameters with the engineer of record in FY25. This is a multi-year project that aims to improve solids handling and reduce odor emissions at the plant and surrounding areas. The final project will include an ammonia scrubber placed upstream of the existing odor control device and a carbon absorber placed downstream. At project completion and after all components are in service and acclimated, performance testing will be conducted on the odor control device to determine effectiveness and next steps, if needed.

Annual Update

During the period of July 1, 2024, through June 30, 2025, the final shop drawings and submittals for all major long-lead equipment and materials were submitted by the Design-Builder and reviewed by the MSD. The first part of the period centered around the demolition and relocation of existing facilities, including the Sodium Hypochlorite Building, Thickened Sludge Holding Tanks, Cake Loadout, and underground storage tanks. Construction began on several new process areas of the Thermal Hydrolysis Process (THP), including THP Electrical Building (Area 15), Sidestream Treatment (Area 85), Boiler Building (Area 45), Cake Receiving (Area 30), and THP (Area 40). Construction of a new cake loadout facility, including startup and commissioning, two stainless steel cake silos, and a storage warehouse was completed. The rehabilitation of Digester #3 was completed, which included pressure washing of the interior concrete surface; repair of interior concrete; coating of interior walls and floors with a protective epoxy; replacement of the mixing system; and installation of a new fixed cover. The remodeling of the second floor of the Administration Building was completed to transform the former laboratory area into a new office space. Work began and construction progressed on the solids screening facility, including solids handling odor control upgrades, a fixed cover for Digester #4, and replacement of the centrifuges and the miscellaneous electrical and instrumentation conduits that will support the operation of the new processes. During the period covered by this report, MSD expended $87.76 million. As of June 30, 2025, this project is approximately 38% complete.

2. Sedimentation Basin Rehabilitation

Scope

MSD will continue its consent decree work with the U.S. EPA and the Kentucky Energy and Environment Cabinet for the primary sedimentation rehabilitation at the MFWQTC. This project includes rehabilitating and replacing the primary sedimentation basins and covering key assets. This project will contain odorous air and send it to the existing Biological Odor Control (BOC) system for treatment. This project started in FY20 and is expected to be completed inFY26. At project completion and after all components are in service and acclimated, performance testing will be conducted on the BOC to determine effectiveness and next steps, if needed.

Annual Update

The rehabilitation and commissioning of the equipment in the South Pump Station was completed, along with repairs of the influent aerated channel and primary effluent channel. The repairs on the primary effluent channel included the installation of new air headers and diffusers, as well as the knee walls within the

channel that support the new gates and stop logs. Startup for all pumps, augers, gates, and travelling bridges for Sedimentation Basins 3 and 4 was also completed, along with the installation of new odor control equipment. The contractor began demolition of the North Pump Station and Sedimentation Basins 1 and 2, and a majority of the rehabilitation was completed. Concrete pavement was placed at the North Pump Station roadway and a new fiber line was rerouted to provide permanent communication to the primary systems, and a majority of the equipment was installed at Sedimentation Basins 1 and 2. During the period covered by this report, MSD expended $36.48 million. As of June 30, 2025, this project is approximately 88.9% complete.

A. Southwest Pump Station Gas Monitoring and Odor Control

Scope

MSD is finalizing a new odor control system at the Southwest Pump Station (SWPS). This system uses a biotrickling filter to treat odorous air, replacing the old carbon adsorption system. In addition to the areas treated by the previous system, the new system includes odorous air from Splitter Structure No. 1 (SP1) and the Dumpster Room. It is designed to remove 99% of inlet hydrogen sulfide when completed. A gas monitoring system will track hydrogen sulfide levels at the inlet and outlet. This technology will help mitigate odors and reduce impacts on the Bells Lane community. At project completion and after all components are in service and acclimated, performance testing will be conducted on the odor control device to determine effectiveness and next steps, if needed.

Annual Update

During the first half of the reporting period, the installing contractor worked with the equipment manufacturer to make adjustments that improved the performance of the biotrickling filter/bioscrubber. These adjustments included fine-tuning the nutrient feed, freshwater cycle frequency and duration, and the recirculation frequency and duration. In June 2025, performance testing and training were conducted. During the period covered by this report, MSD expended $292,000. As of June 30, 2025, the project is over 95% complete, however, completion of the system has been postponed due to unforeseen shipping delays. The projected completion date is October 31, 2025.

B. Odor Control Management Plan (Derek R. Guthrie)

Scope

MSD contracted with AECOM to conduct a study of odors in our treatment centers and collection systems. Phase 2 of the Odor Control Management Plan work focuses on Derek R. Guthrie in the southern part of our service territory. Consistent with the prior plan developed for the MFWQTC, AECOM will evaluate current performance, identify potential odor sources, evaluate existing odor control systems, conduct sampling, and develop recommendations for treatment technologies. This plan will help identify odor problem areas and suggest solutions, guiding our approach to odor control around the Derek Guthrie Water Quality Treatment Center (DRGWQTC). Once finalized, MSD will review AECOM's recommendations, develop a response, and prioritize actions within budget constraints. MSD will reevaluate the need for identified actions as system improvements occur.

Annual Update

This project was completed on December 31, 2024, as outlined in the Mid-Year Report (Appendix B). The final AECOM report can be found on the odor webpage under Mitigation Projects and the Management Response is included in Appendix E. Pursuant to the Second Amended Air Pollution Control Board Order

No. 21-01, section I.C.4, MSD completed a Project Certification letter and submitted it to the MSD Board during the January 27, 2025, board meeting; a copy of the letter can be found in Appendix F.

C. Hydrogen Sulfide (H_2S) Removal – Digester Gas (Morris Forman)

Scope

The MFWQTC has four anaerobic digesters which use naturally occurring microorganisms in the digesters' oxygen free environment to break down organic matter. As the organic matter breaks down, digester gas is produced. Recent sampling found high hydrogen sulfide (H_2S) levels present in the digester gas. To comply with the Federally Enforceable District Origin Operation Permit (FEDOOP), MSD will install a Hydrogen Sulfide Removal System that reduces the hydrogen sulfide concentrations in the digester gas prior to end use. This hydrogen sulfide adsorption system will utilize three (3) or four (4) vessels containing media. As the digester gas passes through approximately 50,000 pounds of media in each vessel, the hydrogen sulfide in the digester gas reacts with the media.The goal of this project would be to reduce hydrogen sulfide concentrations in the digester gas which will allow use of digester gas to supplement fuel for dryers and reduce the amount of gas flared.

Annual Update

Between July 1, 2024, and December 31, 2024, the detailed design documents were finalized, the design documents were advertised, a pre-bid meeting occurred at the project site, bids were opened, and a contractor was selected for the project. Bids were opened on August 20, 2024, and a Notice to Proceed was issued on November 4, 2024. A pre-construction meeting took place between the Owner (Louisville MSD), Engineer, and Contractor on November 22, 2024. The Contractor then proceeded to compile and submit shop drawings for materials with long lead times such as the digester gas plug valves and the prefabricated electrical building. Between January 1, 2025, and June 30, 2025, the Contractor began work to demolish the abandoned equipment, install the buried utilities, excavate, and install electrical handholes and duct banks, and prepare the site for the installation of the large equipment concrete foundation pads. During the period covered by this report, MSD expended $2.02 million and as of June 30, 2025, the project is approximately 38.5% complete.

D. Dissolved Air Flotation Thickener (DAFT) Rehabilitation (Morris Forman)

Scope

The Dissolved Air Flotation Thickener (DAFT) system and its Main Equipment Building (MEB) exhaust at the MFWQTC have been identified as odor sources. MSD will perform a rehabilitation of the DAFT and its MEB exhaust. This project will evaluate and determine the best odor mitigation technologies for this area. Improving odors in this process will enhance overall air quality at the MFWQTC. Once the odor device is in service, performance testing will confirm if it meets design specifications. MSD will monitor for odors once the project is complete to determine effectiveness and next steps, if needed.

Annual Report

The design consultant worked on the 90% detailed design submittal and presented the design in December of 2024. Additional scope was added to the project during this period which included an odor control system for the DAFT room. The additional scope also included the demolition of an abandoned area that will now be the location for the new odor control equipment. The updated design for this project was completed in the first quarter of the year (2025) and was posted for bid on May 6, 2025. During the reporting period, MSD expended $531,769. As of June 30, 2025, the design for the project is complete but construction has yet to commence.

Collection System

E. Western Outfall Sewer Shed Studies

Scope

The Western Outfall, a gravity sewer starting in the southwestern central business district, runs west along Broadway toward the Ohio River and then runs south to the MFWQTC. MSD has experienced high odor complaints along this system. AECOM documented in the Odor Control Master Plan that this system tends to run at positive pressure, which causes an increase in the release of odorous air. MSD will conduct a study to determine if changing the pressure in the system to negative will minimize the escape of odorous air. MSD will install a temporary unit along the gravity sewer line to create negative pressure conditions. In addition to the pressure study, MSD will develop a wastewater odor model using the WATS (Wastewater Aerobic / Anaerobic Transformations in Sewers) sewer process model. WATS simulates changes in conditions (i.e., aerobic, anoxic, and anaerobic) within the sewer system to determine the impact on odors. The WATS model will be used to run what-if scenarios to determine the effectiveness of different treatment methods. MSD will review recommendations from both the negative pressure pilot study and the WATS model to identify next steps. Further actions for system improvements will be prioritized within budget constraints.

Annual Update

Pressure Study

Pressure studies were performed along the Western Outfall in an effort to minimize the escape of odorous air. The original scope was to perform two pressure study tests; however, MSD expanded the scope to include two additional tests in an effort to provide more information for the analysis. Studies were conducted at 24th and 45th Street, Maple Street, Varble Avenue, and Shawnee Park. Maple Street is at the eastern end of the outfall while Varble is far west. These locations were selected due to their proximity to odor concern areas, low traffic conditions, and ease of access. Letters were distributed to those properties that could be negatively impacted, notifying our customers of potential odors during testing. As an example, a copy of the letter sent to customers on 45th Street can be found in Appendix I. During the tests, a fan system was ducted to a manhole to exhaust air from the sewer. The pressure in the sewer was monitored upstream and downstream to determine if a negative pressure could be maintained and to determine the zone of influence. Successful capturing of air to maintain a negative pressure would allow for the treatment of odorous air prior to release into the atmosphere. During this reporting period, MSD expended $26,500. As of June 30, 2025, this pressure study is complete. A copy of the Project Certification Letter can be found in Appendix G.

WATS Sewer Process Model

The WATS sampling plan and campaign were completed for the Western Outfall sewer between the intersection of South 16th Street and West Breckenridge Street and the intersection of Broadway and Southwestern Parkway. The sampling campaign included flow composite, vapor phase sulfide, liquid phase dissolved sulfide, temperature, and pH sampling. Analyses of the liquid samples were performed by third-party laboratories and included testing for BOD, COD, ffCOD (filtered and floc COD), VFA (volatile fatty acids), and others. Hydraulic model information for this portion of the Western Outfall was also obtained and the sewer process model used to estimate sulfide generation was developed. Calibration of the sewer process model has begun, using the laboratory analyses and field data obtained from the sampling campaign. During the period covered by this report, MSD expended $477,549. As of June 30, 2025, this

project is complete. The Project Certification Letter was presented to the MSD board on September 22, 2025, and a copy of the letter can be found in Appendix G.

G. Grand Avenue Pump Station Chemical Use Study

Scope

The Grand Avenue Pump Station is at the east end of the Morris Forman service area. This pump station currently uses Bioxide (calcium nitrate) to minimize sulfides in the Grand Avenue Force Main. Although Bioxide is effective for some part of the sewer system, MSD desires to improve odors further down the force main. The chemical use study will explore alternative chemicals at the Grand Avenue Pump Station and identify options that may be more effective at reducing sulfides and deterring the formation of hydrogen sulfide in the sewer system. At Project Completion, MSD will review recommendations and determine next steps. The Grand Avenue Pump Station Chemical Use Study is projected to be completed in FY26 with a total expenditure of $50,000.

Annual Update

In FY25, the contractor completed the liquid sampling and testing of the force main. The contractor has begun work on providing recommendations for alternatives on odor and corrosion control treatment and chemical feed technologies. During the period covered by the report, MSD expended $7,000 and the project is 22% complete.

Catch Basins

I. Catch Basin Inspections

Scope

MSD is actively inspecting catch basins within the combined system to determine repair needs and identify those for replacement. Repairs are scheduled for completion by MSD field crews while replacement work is bundled into smaller jobs to bid out to contractors. MSD plans to inspect roughly 4,200 catch basins per year. These inspections are the first step to reducing odors from catch basins located at the edge of customer properties.

Annual Update

Prior to July 1, 2024, a total of 5,281 catch basins were inspected and 1,002 were identified for replacement. During the period covered by this report, MSD continued to inspect catch basins in the neighborhoods most impacted. An additional 7,090 were inspected and 1,560 were identified for replacement. During the period covered by this report, a total of $822,288 was expended, to perform inspections. The total inspected to date is 12,371 with 2,562 replacements identified. The table below provides details by neighborhood.

CATCH BASIN INSPECTIONS COMPLETED			
Neighborhood	**# Inspected**	**Inspection Status**	**# Identified for Replacement**
Prior to July 1, 2024			
Park DuValle	319	Completed	20
California (3 phases)	925	Completed	72*
Chickasaw	746	Completed	79
Shawnee	1,142	Completed	176*
Taylor Berry	817	Completed	14*
Russel	1,332	Completed	641*
TOTALS:	**5,281**		**1,002**
July 1, 2024 – June 30, 2025			
Old Louisville	1,176	Completed	271*
Limerick	246	Completed	108*
Park Hill	564	Completed	177*
Parkland	434	Completed	158*
East Market / Nulu	284	Completed	71
Cherokee Triangle	319	Completed	85
Central Business District	1,516	Completed	282*
W Main Street	142	Completed	9
Portland	1,364	Completed	366*
Wyandotte	457	Completed	33
Beechmont	420	**In Progress**	TBD
Algonquin	168	**In Progress**	TBD
TOTALS:	**7,090**		**1,560**
GRAND TOTALS:	**12,371**		**2,562**

**The number of catch basins initially identified for replacement has changed due to a more extensive review of the inspection results.*
TBD = Inspections in this neighborhood are in progress and a final replacement number is yet to be determined.

J. Catch Basin Replacements

Scope

Catch basin replacements in FY25 will be targeted for completion in identified neighborhoods. These replacements will include installing trapped catch basins to deter odors from escaping the sewer system.

1. California Neighborhood: In the California neighborhood, 925 catch basins were inspected, and 72 were identified for replacement.
2. Shawnee: In the Shawnee neighborhood, 1,142 catch basins were inspected, and 176 were identified for replacement.
3. Taylor Berry: In the Taylor Berry neighborhood, 817 catch basins were inspected, and 14 were identified for replacement.
4. East Market (Nulu): In the East Market neighborhood, 284 catch basins were inspected, and 19 were initially identified for replacement in the original scope. After a more extensive review of the inspection results, an additional 52 catch basins were identified for replacement.

MSD expects to see a decrease in customer odor complaints specific to these catch basins that will now be trapped. However, trapped catch basins that are dry can still release odors. Therefore, MSD will periodically inspect the catch basins and add water as needed to contain odors.

Annual Update

The total number of catch basins replaced in the Park DuValle, California, East Market (Nulu) and Shawnee neighborhoods are in the table below. All twenty of the catch basins identified in Park DuValle were completed in early 2024.

CATCH BASIN REPLACEMENTS		
Neighborhood	**# To Replace**	**# Replaced**
Park DuValle	20	20
California (3 phases)	72	72
East Market (Nulu)	71	19
Shawnee	176	172
TOTALS:	**339**	**283**

- Park DuValle: As reported in the Mid-Year Report, all 20 catch basins identified for replacement were completed in FY24.
- California Neighborhood: In FY24, 15 catch basins were replaced, and the remaining 57 were completed in FY25. During the period covered by this report, MSD expended $1.3 million, and all catch basins identified in the California Neighborhood are now complete. A copy of the Project Certification Letter can be found in Appendix H.
- East Market (Nulu): Thirteen (13) catch basins were replaced in the first half of FY25 and 6 were replaced within the past six months. The replacements were initially expected for completion in the first quarter of 2025, per the Mid-Year Report, however, construction remains in progress due to the 52 additional catch basins identified for replacement. During the period covered by this report MSD expended a total of $264,600.
- Shawnee: During the first half of FY25, 20 catch basins were replaced and 152 catch basins replaced within the last 6 months. MSD expended $2.21 million during the period covered by this report. Project expected to be complete by the end of the calendar year.

Additional Project

Main Diversion Biofilter

As was reported in the Mid-Year Report, MSD completed a project at the Main Diversion to improve odors. A biofilter at the grit structure was identified as a source of odors at this site. The biofilter had exceeded its useful life and required replacement. The drainage team conducted a site visit and developed a comprehensive plan to remove the existing material and weeds, wash down the filter bed, and install new material. Additionally, the team installed soaker houses to improve its performance in reducing odors in the vicinity of the Main Diversion. This project offers multiple benefits, including reduced costs, minimal maintenance, less odors, improved air quality, and supports sustainability and eco-friendly operations.

Conclusion

Reducing odors and their impact on the community is one of MSD's top priorities. This Annual Report outlines the progress MSD made during the first year of the Short-Term Action Plan and the requirements

set forth in the Second Amended Agreed Board Order. It highlights MSD's efforts to improve community engagement and odor response activities and provides updates on the projects that were identified in the Short-Term Action Plan that were scheduled to start, in progress, or completed during the reporting period.

MSD prioritized community engagement by hosting clAIRity meetings to share updates and provide the public with an opportunity to ask questions. Odor complaints were addressed through follow-up letters, call backs, and online reporting. MSD also developed a dashboard to track odor complaints, making them easier to search and categorize. The clAIRity program webpage is regularly updated by MSD to ensure the public remains up to date with all of MSD's odor mitigation efforts. MSD continues to focus its efforts to address community concerns and is dedicated to mitigating odors within the community.

Although this report focuses on the projects scheduled to start during the reporting period (July 1, 2024 – June 30, 2025), the table below summarizes the progress, budget, and expenditures to date for all projects identified in the Short-Term Action Plan. This table will serve as a visualization of project progress until an "electronic dashboard visualization" can be developed, as outlined in Section II A of the Agreed Order

This Annual Report was presented to the MSD Board on September 22, 2025. Following the presentation to the MSD Board, the report is being distributed to the recipients (as identified in Section IV of the Agreed Order) and will be posted to the odor webpage prior to the September 30, 2025, deadline.

Short-Term Action Plan Projects – Annual Update							
Category	**Identifier**	**Project**	**FY25 – FY26 Budget (millions)**	**FY25 Annual Expenditures (millions)**	**% Complete**	**Projected Completion Date**	**Status**
Treatment	1	New Biosolids Facility (Morris Forman) – Consent Decree Project	$60.0	$87.76	38%	30-Sep-28	Under Construction
Treatment	2	Sedimentation Basin Rehabilitation (Morris Forman) – Consent Decree Project	$11.50	$36.48	88.9%	31-Aug-25	Under Construction
Treatment	A	Southwest Pump Station Gas Monitoring and Odor Control	$0.80	$0.292	95%	31-Oct-25	Awaiting operation and maintenance procedures.
Treatment	**B**	**Odor Management Plan (Derek R. Guthrie)**	**$0.20**	**$0.242**	**100%**	**N/A**	**Complete**
Treatment	C	Hydrogen Sulfide (H2S) Removal – Digester Gas (Morris Forman)	$8.00	$2.02	38.5%	31-Jul-26	Under Construction
Treatment	D	Dissolved Air Flotation Thickener (DAFT) Rehabilitation (Morris Forman)	$18.10	$0.532	0%	30-Apr-27	Design is complete but construction has yet to begin.
Collection System	**E**	**Western Outfall Sewer Shed Studies**	**$0.43**	**$0.504**	**100%**	**30-Jun-25**	**Complete**
Collection System	F	Ohio River Force Main Technology Study	$0.05	$0.00	0%	30-Jun-26	Projected start July 1, 2025
Collection System	G	Grand Avenue Pump Station Chemical Use Study	$0.0325	$0.007	22%	30-Jun-26	Construction has yet to begin
Pump Station	H	Starkey Pump Station – Evaluate options for odor mitigation technology	$0.05	$0.00	0%	30-Jun-26	Projected start October 1, 2025
Catch Basins	I	Catch Basin Inspections	$0.60	$0.822	NA	N/A	This work will continue annually throughout the service area.
Catch Basins	**J1**	**California Neighborhood Catch Basin Replacements**	**$1.30**	**$1.30**	**100%**	**30-Jun-25**	**Complete**
Catch Basins	J2	Chickasaw Neighborhood Catch Basin Replacements	$1.20	$0.00	0%	31-Dec-25	Projected to start this calendar year
Catch Basins	J3	Shawnee Neighborhood Catch Basin Replacements	$3.00	$2.21	97%	31-Dec-25	Under Construction
Catch Basins	J4	Taylor Berry Neighborhood Catch Basin Replacements	$0.86	$0.015	0%	31-Dec-25	Inspections are complete but construction has yet to begin.
Catch Basins	J5	East Market (Nulu) Catch Basin Replacements	$0.40	$0.265	27%	TBD	Under Construction