



700 West Liberty Street | Louisville, KY 40203-1911  
Phone: 502.540.6000 | LouisvilleMSD.org

August 17, 2026

Crystal Dennis  
Permit Support Section  
Surface Water Permits Branch  
Division of Water  
200 Fair Oaks Lane 4th Floor  
Frankfort, KY 40601

Re: Morris Forman Water Quality Treatment Center  
KPDES Permit No. KY0022411

Dear Ms. Dennis:

In accordance with the provisions of the KPDES Permit referenced above, the monthly Discharge Monitoring Report (DMR), and monthly Discharge (overflow) Report for the reporting period July 1st through July 31st 2026, are provided through NetDMR. The Morris Forman Water Quality Treatment Center (MFWQTC) met all permit reporting requirements.

Third quarter biomonitoring was also performed and passed.

Should you have any questions, please contact me at (502) 540-6765.

Sincerely,

A handwritten signature in black ink, appearing to read 'Michael Scott', written over a light blue horizontal line.

Michael Scott  
Treatment Facilities Manager

EPA may make all the information submitted through this form (including all attachments) available to the public without further notice to you. Do not use this online form to submit personal information (e.g., non-business cell phone number or non-business email address), confidential business information (CBI), or if you intend to assert a CBI claim on any of the submitted information. Pursuant to 40 CFR 2.203(a), EPA is providing you with notice that all CBI claims must be asserted at the time of submission. EPA cannot accommodate a late CBI claim to cover previously submitted information because efforts to protect the information are not administratively practicable since it may already be disclosed to the public. Although we do not foresee a need for persons to assert a claim of CBI based on the types of information requested in this form, if persons wish to assert a CBI claim we direct submitters to contact the [NPDES eReporting Help Desk](#) for further guidance. Please note that EPA may contact you after you submit this report for more information.

This collection of information is approved by OMB under the Paperwork Reduction Act, 44 U.S.C. 3501 et seq. (OMB Control No. 2040-0004). Responses to this collection of information are mandatory in accordance with this permit and EPA NPDES regulations 40 CFR 122.41(l)(4)(i). An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. The public reporting and recordkeeping burden for this collection of information are estimated to average 2 hours per outfall. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates and any suggested methods for minimizing respondent burden to the Regulatory Support Division Director, U.S. Environmental Protection Agency (2821T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed form to this address.

Permit

Permit #:

KY0022411

Major:

Yes

Permitted Feature:

001  
External Outfall

Permittee:

Morris Forman WQTC MSD

Permittee Address:

700 W Liberty St  
Louisville, KY 40203

Discharge:

001-1  
MUNICIPAL DISCHARGE

Facility:

MORRIS FORMAN WQTC MSD

Facility Location:

4522 ALGONQUIN PKWY  
LOUISVILLE, KY 40211

Report Dates & Status

Monitoring Period:

From 07/01/26 to 07/31/26

DMR Due Date:

08/28/26

Status:

NetDMR Validated

Considerations for Form Completion

G - INFLUENTE - SECONDARY EFFLUENT1 - FINAL EFFLUENT - Parameter 74055 - Use Season 1 for summer months (May, June, July, August, September, and October) and Season 2 for winter months (November, December, January, February March, and April); enter NODI=9 for the Season not needed.

Principal Executive Officer

First Name:

Anthony

Last Name:

Parrott

Title:

Executive Director

Telephone:

502-540-6000

No Data Indicator (NODI)

Form NODI: --

| Parameter |                                          | Monitoring Location                       | Season # | Param. NODI |             | Quantity or Loading |                |             |                  |           | Quality or Concentration |              |             |                |             |                  |           | # of Ex. | Frequency of Analysis | Sample Type     |
|-----------|------------------------------------------|-------------------------------------------|----------|-------------|-------------|---------------------|----------------|-------------|------------------|-----------|--------------------------|--------------|-------------|----------------|-------------|------------------|-----------|----------|-----------------------|-----------------|
| Code      | Name                                     |                                           |          |             |             | Qualifier 1         | Value 1        | Qualifier 2 | Value 2          | Units     | Qualifier 1              | Value 1      | Qualifier 2 | Value 2        | Qualifier 3 | Value 3          | Units     |          |                       |                 |
| 00300     | Oxygen, dissolved [DO]                   | 1 - Effluent Gross                        | 0        | --          | Sample      |                     |                |             |                  |           | =                        | 4.1          |             |                |             |                  | 19 - mg/L | 0        | 01/01 - Daily         | GR - Grab       |
|           |                                          |                                           |          |             | Permit Req. |                     |                |             |                  |           | >=                       | 2.0 INST MIN |             |                |             |                  | 19 - mg/L |          | 01/01 - Daily         | GR - Grab       |
|           |                                          |                                           |          |             | Value NODI  |                     |                |             |                  |           |                          |              |             |                |             |                  |           |          |                       |                 |
| 00310     | BOD, 5-day, 20 deg. C                    | E - Secondary/Biological Process Complete | 0        | --          | Sample      | =                   | 7216.0         | =           | 9380.0           | 26 - lb/d |                          |              | =           | 10.0           | =           | 12.0             | 19 - mg/L | 0        | 01/01 - Daily         | CP - Composite  |
|           |                                          |                                           |          |             | Permit Req. |                     | Req Mon MO AVG |             | Req Mon MX WK AV | 26 - lb/d |                          |              | <=          | 30.0 MO AVG    | <=          | 45.0 MX WK AV    | 19 - mg/L |          | 01/01 - Daily         | CP - Composite  |
|           |                                          |                                           |          |             | Value NODI  |                     |                |             |                  |           |                          |              |             |                |             |                  |           |          |                       |                 |
| 00310     | BOD, 5-day, 20 deg. C                    | G - Raw Sewage Influent                   | 0        | --          | Sample      | =                   | 92909.0        | =           | 121445.0         | 26 - lb/d |                          |              | =           | 121.0          | =           | 140.0            | 19 - mg/L | 0        | 01/01 - Daily         | CP - Composite  |
|           |                                          |                                           |          |             | Permit Req. |                     | Req Mon MO AVG |             | Req Mon MX WK AV | 26 - lb/d |                          |              |             | Req Mon MO AVG |             | Req Mon MX WK AV | 19 - mg/L |          | 01/01 - Daily         | CP - Composite  |
|           |                                          |                                           |          |             | Value NODI  |                     |                |             |                  |           |                          |              |             |                |             |                  |           |          |                       |                 |
| 00400     | pH                                       | 1 - Effluent Gross                        | 0        | --          | Sample      |                     |                |             |                  |           | =                        | 6.4          |             |                | =           | 7.1              | 12 - SU   | 0        | 01/01 - Daily         | GR - Grab       |
|           |                                          |                                           |          |             | Permit Req. |                     |                |             |                  |           | >=                       | 6.0 MINIMUM  |             |                | <=          | 9.0 MAXIMUM      | 12 - SU   |          | 01/01 - Daily         | GR - Grab       |
|           |                                          |                                           |          |             | Value NODI  |                     |                |             |                  |           |                          |              |             |                |             |                  |           |          |                       |                 |
| 00530     | Solids, total suspended                  | E - Secondary/Biological Process Complete | 0        | --          | Sample      | =                   | 8020.0         | =           | 14654.0          | 26 - lb/d |                          |              | =           | 10.0           | =           | 15.0             | 19 - mg/L | 0        | 01/01 - Daily         | CP - Composite  |
|           |                                          |                                           |          |             | Permit Req. |                     | Req Mon MO AVG |             | Req Mon MX WK AV | 26 - lb/d |                          |              | <=          | 30.0 MO AVG    | <=          | 45.0 MX WK AV    | 19 - mg/L |          | 01/01 - Daily         | CP - Composite  |
|           |                                          |                                           |          |             | Value NODI  |                     |                |             |                  |           |                          |              |             |                |             |                  |           |          |                       |                 |
| 00530     | Solids, total suspended                  | G - Raw Sewage Influent                   | 0        | --          | Sample      | =                   | 139687.0       | =           | 188311.0         | 26 - lb/d |                          |              | =           | 173.0          | =           | 205.0            | 19 - mg/L | 0        | 01/01 - Daily         | CP - Composite  |
|           |                                          |                                           |          |             | Permit Req. |                     | Req Mon MO AVG |             | Req Mon MX WK AV | 26 - lb/d |                          |              |             | Req Mon MO AVG |             | Req Mon MX WK AV | 19 - mg/L |          | 01/01 - Daily         | CP - Composite  |
|           |                                          |                                           |          |             | Value NODI  |                     |                |             |                  |           |                          |              |             |                |             |                  |           |          |                       |                 |
| 00610     | Nitrogen, ammonia total [as N]           | E - Secondary/Biological Process Complete | 0        | --          | Sample      | =                   | 6142.0         | =           | 6753.0           | 26 - lb/d |                          |              | =           | 9.0            | =           | 9.8              | 19 - mg/L | 0        | 01/01 - Daily         | CP - Composite  |
|           |                                          |                                           |          |             | Permit Req. |                     | Req Mon MO AVG |             | Req Mon MX WK AV | 26 - lb/d |                          |              | <=          | 20.0 MO AVG    | <=          | 30.0 MX WK AV    | 19 - mg/L |          | 01/01 - Daily         | CP - Composite  |
|           |                                          |                                           |          |             | Value NODI  |                     |                |             |                  |           |                          |              |             |                |             |                  |           |          |                       |                 |
| 00610     | Nitrogen, ammonia total [as N]           | G - Raw Sewage Influent                   | 0        | --          | Sample      | =                   | 6739.0         | =           | 7059.0           | 26 - lb/d |                          |              | =           | 9.4            | =           | 11.0             | 19 - mg/L | 0        | 01/01 - Daily         | CP - Composite  |
|           |                                          |                                           |          |             | Permit Req. |                     | Req Mon MO AVG |             | Req Mon MX WK AV | 26 - lb/d |                          |              |             | Req Mon MO AVG |             | Req Mon MX WK AV | 19 - mg/L |          | 01/01 - Daily         | CP - Composite  |
|           |                                          |                                           |          |             | Value NODI  |                     |                |             |                  |           |                          |              |             |                |             |                  |           |          |                       |                 |
| 50050     | Flow, in conduit or thru treatment plant | E - Secondary/Biological Process Complete | 0        | --          | Sample      | =                   | 89.12          | =           | 117.58           | 03 - MGD  |                          |              |             |                |             |                  |           | 0        | 99/99 - Continuous    | CN - Continuous |
|           |                                          |                                           |          |             | Permit Req. |                     | Req Mon MO AVG |             | Req Mon DAILY MX | 03 - MGD  |                          |              |             |                |             |                  |           |          | 99/99 - Continuous    | CN - Continuous |
|           |                                          |                                           |          |             | Value NODI  |                     |                |             |                  |           |                          |              |             |                |             |                  |           |          |                       |                 |
|           |                                          |                                           |          |             | Sample      |                     |                |             |                  |           |                          |              |             |                | <           | 0.016            | 19 - mg/L |          | 01/01 - Daily         | GR - Grab       |

|       |                                   |                     |   |    |                                     |  |  |  |  |  |  |  |  |    |                |    |                |              |   |                 |                 |
|-------|-----------------------------------|---------------------|---|----|-------------------------------------|--|--|--|--|--|--|--|--|----|----------------|----|----------------|--------------|---|-----------------|-----------------|
| 50060 | Chlorine, total residual          | 1 - Effluent Gross  | 0 | -- | Permit Req.<br>Value NODI           |  |  |  |  |  |  |  |  |    |                | <= | 0.019 DAILY MX | 19 - mg/L    | 0 | 01/01 - Daily   | GR - Grab       |
| 74055 | Coliform, fecal general           | 1 - Effluent Gross  | 1 | -- | Sample<br>Permit Req.<br>Value NODI |  |  |  |  |  |  |  |  | =  | 20.0           | =  | 100.0          | 13 - #/100mL |   | 01/01 - Daily   | GR - Grab       |
|       |                                   |                     |   |    |                                     |  |  |  |  |  |  |  |  | <= | 200.0 30DA GEO | <= | 400.0 7 DA GEO | 13 - #/100mL | 0 | 01/01 - Daily   | GR - Grab       |
| 81010 | BOD, 5-day, percent removal       | K - Percent Removal | 0 | -- | Sample<br>Permit Req.<br>Value NODI |  |  |  |  |  |  |  |  | =  | 92.0           |    |                | 23 - %       |   | 01/30 - Monthly | CA - Calculated |
|       |                                   |                     |   |    |                                     |  |  |  |  |  |  |  |  | >= | 85.0 MO MIN    |    |                | 23 - %       | 0 | 01/30 - Monthly | CA - Calculated |
| 81011 | Solids, suspended percent removal | K - Percent Removal | 0 | -- | Sample<br>Permit Req.<br>Value NODI |  |  |  |  |  |  |  |  | =  | 94.0           |    |                | 23 - %       |   | 01/30 - Monthly | CA - Calculated |
|       |                                   |                     |   |    |                                     |  |  |  |  |  |  |  |  | >= | 85.0 MO MIN    |    |                | 23 - %       | 0 | 01/30 - Monthly | CA - Calculated |
|       |                                   |                     |   |    |                                     |  |  |  |  |  |  |  |  |    |                |    |                |              |   |                 |                 |

**Submission Note**

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

**Edit Check Errors**

No errors.

**Comments**

**Attachments**

| Name                         | Type | Size     |
|------------------------------|------|----------|
| MFWQTCMOR072026.pdf          | pdf  | 102117.0 |
| MFWQTCoverletterJuly2026.pdf | pdf  | 35279.0  |

**Report Last Saved By**

**Morris Forman WQTC MSD**

User: BURCH@LOUISVILLEMSD.ORG

Name: Robin Burch

E-Mail: robin.burch@louisvillemsd.org

Date/Time: 2026-08-14 07:06 (Time Zone: -04:00)

**Report Last Signed By**

User: ANTHONY1026.

Name: Michael Scott

E-Mail: mike.scott@louisvillemsd.org

Date/Time: 2026-08-17 11:41 (Time Zone: -04:00)

EPA may make all the information submitted through this form (including all attachments) available to the public without further notice to you. Do not use this online form to submit personal information (e.g., non-business cell phone number or non-business email address), confidential business information (CBI), or if you intend to assert a CBI claim on any of the submitted information. Pursuant to 40 CFR 2.203(a), EPA is providing you with notice that all CBI claims must be asserted at the time of submission. EPA cannot accommodate a late CBI claim to cover previously submitted information because efforts to protect the information are not administratively practicable since it may already be disclosed to the public. Although we do not foresee a need for persons to assert a claim of CBI based on the types of information requested in this form, if persons wish to assert a CBI claim we direct submitters to contact the [NPDES eReporting Help Desk](#) for further guidance. Please note that EPA may contact you after you submit this report for more information.

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Permit

Permit #:

KY0022411

Major:

Yes

Permitted Feature:

001  
External Outfall

Permittee:

Morris Forman WQTC MSD

Permittee Address:

700 W Liberty St  
Louisville, KY 40203

Discharge:

001-B  
SECONDARY BYPASS

Facility:

MORRIS FORMAN WQTC MSD

Facility Location:

4522 ALGONQUIN PKWY  
LOUISVILLE, KY 40211

Report Dates & Status

Monitoring Period:

From 07/01/26 to 07/31/26

DMR Due Date:

08/28/26

Status:

NetDMR Validated

Considerations for Form Completion

MONITORING DURING PERIODS OF SECONDARY BYPASS IN ADDITION TO REGULAR MONITORING.1 - FINAL EFFLUENTF - SECONDARY BYPASS AFTER PRIMARYTREATMENT.

Principal Executive Officer

First Name:

James A.

Last Name:

Parrott

Title:

Executive Director

Telephone:

502-540-6000

No Data Indicator (NODI)

Form NODI:

--

| Parameter |                                          | Monitoring Location                      | Season # | Param. NODI |             | Quantity or Loading |                |             |                  |          | Quality or Concentration |         |                |         |                  |           |       | # of Ex.                                         | Frequency of Analysis              | Sample Type |
|-----------|------------------------------------------|------------------------------------------|----------|-------------|-------------|---------------------|----------------|-------------|------------------|----------|--------------------------|---------|----------------|---------|------------------|-----------|-------|--------------------------------------------------|------------------------------------|-------------|
| Code      | Name                                     |                                          |          |             |             | Qualifier 1         | Value 1        | Qualifier 2 | Value 2          | Units    | Qualifier 1              | Value 1 | Qualifier 2    | Value 2 | Qualifier 3      | Value 3   | Units |                                                  |                                    |             |
| 00310     | BOD, 5-day, 20 deg. C                    | 1 - Effluent Gross                       | 0        | --          | Sample      |                     |                |             |                  |          |                          | =       | 14.0           | =       | 17.0             | 19 - mg/L | 0     | 17/30 - 17 Per Month<br>WH/DS - When Discharging | CP - Composite<br>CP - Composite   |             |
|           |                                          |                                          |          |             | Permit Req. |                     |                |             |                  |          |                          |         | Req Mon MO AVG |         | Req Mon MX WK AV | 19 - mg/L |       |                                                  |                                    |             |
|           |                                          |                                          |          |             | Value NODI  |                     |                |             |                  |          |                          |         |                |         |                  |           |       |                                                  |                                    |             |
| 00310     | BOD, 5-day, 20 deg. C                    | F - Primary/Preliminary Process Complete | 0        | --          | Sample      |                     |                |             |                  |          |                          | =       | 85.0           | =       | 102.0            | 19 - mg/L | 0     | 17/30 - 17 Per Month<br>WH/DS - When Discharging | CP - Composite<br>CP - Composite   |             |
|           |                                          |                                          |          |             | Permit Req. |                     |                |             |                  |          |                          |         | Req Mon MO AVG |         | Req Mon MX WK AV | 19 - mg/L |       |                                                  |                                    |             |
|           |                                          |                                          |          |             | Value NODI  |                     |                |             |                  |          |                          |         |                |         |                  |           |       |                                                  |                                    |             |
| 00530     | Solids, total suspended                  | 1 - Effluent Gross                       | 0        | --          | Sample      |                     |                |             |                  |          |                          | =       | 23.0           | =       | 34.0             | 19 - mg/L | 0     | 17/30 - 17 Per Month<br>WH/DS - When Discharging | CP - Composite<br>CP - Composite   |             |
|           |                                          |                                          |          |             | Permit Req. |                     |                |             |                  |          |                          |         | Req Mon MO AVG |         | Req Mon MX WK AV | 19 - mg/L |       |                                                  |                                    |             |
|           |                                          |                                          |          |             | Value NODI  |                     |                |             |                  |          |                          |         |                |         |                  |           |       |                                                  |                                    |             |
| 00530     | Solids, total suspended                  | F - Primary/Preliminary Process Complete | 0        | --          | Sample      |                     |                |             |                  |          |                          | =       | 97.0           | =       | 103.0            | 19 - mg/L | 0     | 17/30 - 17 Per Month<br>WH/DS - When Discharging | CP - Composite<br>CP - Composite   |             |
|           |                                          |                                          |          |             | Permit Req. |                     |                |             |                  |          |                          |         | Req Mon MO AVG |         | Req Mon MX WK AV | 19 - mg/L |       |                                                  |                                    |             |
|           |                                          |                                          |          |             | Value NODI  |                     |                |             |                  |          |                          |         |                |         |                  |           |       |                                                  |                                    |             |
| 00610     | Nitrogen, ammonia total [as N]           | 1 - Effluent Gross                       | 0        | --          | Sample      |                     |                |             |                  |          |                          | =       | 7.4            | =       | 8.6              | 19 - mg/L | 0     | 17/30 - 17 Per Month<br>WH/DS - When Discharging | CP - Composite<br>CP - Composite   |             |
|           |                                          |                                          |          |             | Permit Req. |                     |                |             |                  |          |                          |         | Req Mon MO AVG |         | Req Mon MX WK AV | 19 - mg/L |       |                                                  |                                    |             |
|           |                                          |                                          |          |             | Value NODI  |                     |                |             |                  |          |                          |         |                |         |                  |           |       |                                                  |                                    |             |
| 00610     | Nitrogen, ammonia total [as N]           | F - Primary/Preliminary Process Complete | 0        | --          | Sample      |                     |                |             |                  |          |                          | =       | 9.1            | =       | 11.4             | 19 - mg/L | 0     | 17/30 - 17 Per Month<br>WH/DS - When Discharging | CP - Composite<br>CP - Composite   |             |
|           |                                          |                                          |          |             | Permit Req. |                     |                |             |                  |          |                          |         | Req Mon MO AVG |         | Req Mon MX WK AV | 19 - mg/L |       |                                                  |                                    |             |
|           |                                          |                                          |          |             | Value NODI  |                     |                |             |                  |          |                          |         |                |         |                  |           |       |                                                  |                                    |             |
| 50050     | Flow, in conduit or thru treatment plant | F - Primary/Preliminary Process Complete | 0        | --          | Sample      | =                   | 21.9           | =           | 38.4             | 03 - MGD |                          |         |                |         |                  |           | 0     | 17/30 - 17 Per Month<br>WH/DS - When Discharging | CN - Continuous<br>CN - Continuous |             |
|           |                                          |                                          |          |             | Permit Req. |                     | Req Mon MO AVG |             | Req Mon MX WK AV | 03 - MGD |                          |         |                |         |                  |           |       |                                                  |                                    |             |
|           |                                          |                                          |          |             | Value NODI  |                     |                |             |                  |          |                          |         |                |         |                  |           |       |                                                  |                                    |             |

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

Attachments

No attachments.

|                        |                                      |
|------------------------|--------------------------------------|
| Report Last Saved By   |                                      |
| Morris Forman WQTC MSD |                                      |
| User:                  | BURCH@LOUISVILLEMSD.ORG              |
| Name:                  | Robin Burch                          |
| E-Mail:                | robin.burch@louisvillemsd.org        |
| Date/Time:             | 2026-08-14 07:06 (Time Zone: -04:00) |
| Report Last Signed By  |                                      |
| User:                  | ANTHONY1026.                         |
| Name:                  | Michael Scott                        |
| E-Mail:                | mike.scott@louisvillemsd.org         |
| Date/Time:             | 2026-08-17 11:51 (Time Zone: -04:00) |

Format: Month/Day/Year  
Enter Start Date : 7/1/26

MORRIS FORMAN WATER QUALITY TREATMENT CENTER JEFFERSON COUNTY, KENTUCKY MONTH OF July-26  
KPD65 PERMIT NO. KY0022411 PLANT CAPACITY - 120 MGD RECEIVING STREAM- OHIO RIVER

| DATE    | WASTEWATER FLOWS<br>(Million Gallons) |                  |        |      | TEMP<br>(DEGF) | pH  |     | SETS<br>(ML) |     | TSS<br>(mg/L) |     | D.O.<br>(mg/L) |     | 5-DAY BOD<br>(mg/L) |      | RETURN SLUDGE |       |       |      |       |     |       |         | AERATION BASIN |         |         |       |       |      | ACTIVE<br>Sludge<br>Wasted<br>MG | Primary<br>Sludge<br>MG | CHLORINATION |     | FINAL<br>EFFLUENT |     |
|---------|---------------------------------------|------------------|--------|------|----------------|-----|-----|--------------|-----|---------------|-----|----------------|-----|---------------------|------|---------------|-------|-------|------|-------|-----|-------|---------|----------------|---------|---------|-------|-------|------|----------------------------------|-------------------------|--------------|-----|-------------------|-----|
|         |                                       |                  |        |      |                |     |     |              |     |               |     |                |     |                     |      | FLOW          |       |       |      | TSS   |     | TVSS  |         | D.O.           |         | MLSS    |       | MLVSS |      |                                  |                         | SET          |     | SVI               |     |
|         | Flow                                  | TSS              | TVSS   | D.O. |                |     |     |              |     |               |     |                |     |                     |      | MLSS          | MLVSS | SET   | SVI  |       |     |       |         |                |         |         |       |       |      |                                  |                         |              |     |                   |     |
|         | Effluent                              | Sec.<br>Effluent | Bypass | raw  |                |     |     |              |     |               |     |                |     |                     |      | final         | raw   | final | raw  | final | raw | final | raw     | final          | raw     | final   | raw   | final | raw  |                                  |                         | final        | raw | final             | raw |
| 7/1/26  | 118.50                                | 115.63           | 2.87   | 76   | 7.3            | 6.6 | 1.5 | 0.1          | 87  | 15            | 6.5 | 109            | 91  | 9                   | 18.8 | 18.1          | 13.4  | 12.9  | 2.5  | 1.9   | 149 | 59    | 0.39911 | 0.12621        | 4.24    | 0.016   | 88    | 6.5   | 0.0  |                                  |                         |              |     |                   |     |
| 7/2/26  | 83.44                                 | 83.44            | 0.00   | 75   | 7.5            | 7.4 | 6.0 | 7.0          | 0.1 | 189           | 8   | 6.4            | 139 | 105                 | 5    | 18.7          | 23.9  | 17.8  | 13.5 | 8.0   | 5.9 | 187   | 23      | 0.39427        | 0.12785 | 3.08    | 0.016 | 20    | 8.1  | 0.0                              |                         |              |     |                   |     |
| 7/3/26  | 70.65                                 | 70.65            | 0.00   | 76   | 7.6            | 7.3 | 6.6 | 7.0          | 0.1 | 164           | 8   | 6.1            | 176 | 120                 | 6    | 18.7          | 21.0  | 15.6  | 12.0 | 5.8   | 4.3 | 266   | 51      | 0.28300        | 0.14564 | 2.55    | 0.016 | 7     | 7.2  | 0.0                              |                         |              |     |                   |     |
| 7/4/26  | 66.57                                 | 66.57            | 0.00   | 78   | 7.8            | 7.4 | 6.7 | 8.5          | 0.1 | 164           | 6   | 6.3            | 116 | 77                  | 4    | 18.4          | 17.0  | 12.8  | 11.4 | 4.6   | 3.4 | 258   | 56      | 0.43843        | 0.14410 | 2.41    | 0.016 | 4     | 7.1  | 0.0                              |                         |              |     |                   |     |
| 7/5/26  | 62.34                                 | 62.34            | 0.00   | 77   | 7.7            | 7.4 | 7.1 | 2.5          | 0.1 | 77            | 7   | 7.7            | 77  | 65                  | 5    | 18.6          | 21.0  | 15.7  | 11.9 | 3.2   | 2.4 | 274   | 91      | 0.50414        | 0.14485 | 2.31    | 0.016 | 4     | 7.7  | 0.0                              |                         |              |     |                   |     |
| 7/6/26  | 94.53                                 | 82.21            | 12.33  | 79   | 7.9            | 7.2 | 6.6 | 2.0          | 0.1 | 101           | 31  | 6.1            | 112 | 94                  | 18   | 18.8          | 20.5  | 15.1  | 9.3  | 3.6   | 2.7 | 256   | 72      | 0.52858        | 0.14423 | 3.51    | 0.016 | 10    | 9.5  | 0.0                              |                         |              |     |                   |     |
| 7/7/26  | 77.50                                 | 77.17            | 0.33   | 76   | 7.6            | 7.3 | 6.6 | 2.0          | 0.1 | 102           | 14  | 7.0            | 118 | 96                  | 15   | 18.7          | 14.7  | 11.1  | 6.1  | 1.8   | 1.3 | 144   | 78      | 0.69612        | 0.14450 | 2.99    | 0.016 | 294   | 9.2  | 0.0                              |                         |              |     |                   |     |
| 7/8/26  | 122.76                                | 98.28            | 28.48  | 77   | 7.7            | 7.3 | 6.7 | 3.5          | 0.1 | 166           | 34  | 5.1            | 97  | 110                 | 15   | 18.5          | 18.6  | 13.8  | 9.0  | 4.7   | 3.5 | 220   | 49      | 0.43102        | 0.14493 | 4.46    | 0.016 | 16    | 10.8 | 0.0                              |                         |              |     |                   |     |
| 7/9/26  | 131.20                                | 118.95           | 12.25  | 77   | 7.7            | 7.4 | 6.5 | 0.5          | 0.1 | 59            | 18  | 7.8            | 88  | 74                  | 11   | 18.6          | 20.5  | 15.2  | 13.9 | 5.0   | 3.6 | 168   | 36      | 0.43623        | 0.25531 | 3.80    | 0.016 | 75    | 6.4  | 0.0                              |                         |              |     |                   |     |
| 7/10/26 | 193.10                                | 121.64           | 71.46  | 75   | 7.5            | 7.3 | 6.0 | 2.5          | 0.5 | 103           | 50  | 6.6            | 88  | 58                  | 22   | 18.8          | 22.7  | 16.7  | 19.7 | 7.2   | 5.3 | 156   | 22      | 0.35580        | 0.26145 | 3.93    | 0.016 | 820   | 5.5  | 0.0                              |                         |              |     |                   |     |
| 7/11/26 | 208.52                                | 126.68           | 81.86  | 75   | 7.5            | 7.3 | 6.6 | 2.0          | 0.1 | 100           | 38  | 7.3            | 50  | 75                  | 15   | 18.6          | 21.9  | 16.1  | 17.6 | 6.1   | 4.4 | 168   | 28      | 0.22515        | 0.20221 | 3.67    | 0.016 | 468   | 2.7  | 0.0                              |                         |              |     |                   |     |
| 7/12/26 | 190.22                                | 127.04           | 63.18  | 72   | 7.2            | 7.3 | 6.9 | 5.0          | 0.2 | 228           | 49  | 8.2            | 53  | 51                  | 38   | 18.0          | 18.4  | 13.2  | 18.6 | 5.2   | 3.7 | 131   | 25      | 0.73039        | 0.18722 | 5.20    | 0.016 | 920   | 3.2  | 0.0                              |                         |              |     |                   |     |
| 7/13/26 | 126.93                                | 117.01           | 9.92   | 74   | 7.4            | 7.2 | 6.8 | 7.0          | 0.1 | 238           | 36  | 6.4            | 94  | 85                  | 12   | 17.9          | 20.4  | 14.4  | 16.2 | 3.2   | 3.0 | 2.2   | 139     | 47             | 0.39380 | 0.15935 | 3.61  | 0.016 | 20   | 7.4                              | 0.0                     |              |     |                   |     |
| 7/14/26 | 119.31                                | 118.46           | 0.86   | 77   | 7.7            | 7.3 | 6.7 | 7.0          | 0.1 | 136           | 10  | 7.8            | 97  | 69                  | 6    | 17.7          | 21.6  | 15.4  | 10.0 | 3.0   | 2.2 | 139   | 47      | 0.39380        | 0.15935 | 3.61    | 0.016 | 20    | 7.4  | 0.0                              |                         |              |     |                   |     |
| 7/15/26 | 105.57                                | 105.01           | 0.56   | 76   | 7.6            | 7.3 | 6.7 | 5.0          | 0.2 | 174           | 7   | 6.5            | 130 | 111                 | 6    | 17.5          | 21.7  | 15.8  | 10.5 | 3.1   | 2.3 | 146   | 50      | 0.52552        | 0.10692 | 3.20    | 0.016 | 26    | 7.6  | 0.0                              |                         |              |     |                   |     |
| 7/16/26 | 80.28                                 | 80.08            | 0.20   | 77   | 7.7            | 7.3 | 6.6 | 4.0          | 0.1 | 154           | 8   | 7.1            | 155 | 125                 | 7    | 17.6          | 19.2  | 14.3  | 10.6 | 3.3   | 2.5 | 177   | 54      | 0.53185        | 0.15893 | 2.40    | 0.016 | 12    | 9.5  | 0.0                              |                         |              |     |                   |     |
| 7/17/26 | 118.11                                | 96.62            | 19.49  | 79   | 7.9            | 7.3 | 6.6 | 10.0         | 0.1 | 256           | 11  | 6.8            | 269 | 98                  | 17   | 17.2          | 19.5  | 14.7  | 8.4  | 3.4   | 2.5 | 167   | 54      | 0.68821        | 0.15958 | 3.38    | 0.016 | 23    | 9.8  | 0.0                              |                         |              |     |                   |     |
| 7/18/26 | 110.10                                | 109.20           | 0.90   | 79   | 7.9            | 7.2 | 6.6 | 7.0          | 0.1 | 306           | 14  | 4.1            | 85  | 89                  | 7    | 17.2          | 18.8  | 14.0  | 9.7  | 2.7   | 2.0 | 139   | 52      | 0.28141        | 0.12959 | 3.83    | 0.016 | 8     | 5.8  | 0.0                              |                         |              |     |                   |     |
| 7/19/26 | 88.05                                 | 88.05            | 0.00   | 78   | 7.8            | 7.2 | 6.6 | 4.0          | 0.1 | 149           | 6   | 6.2            | 136 | 60                  | 3    | 17.1          | 22.3  | 16.2  | 9.7  | 5.8   | 4.3 | 168   | 29      | 0.49222        | 0.12713 | 2.79    | 0.016 | 39    | 6.8  | 0.0                              |                         |              |     |                   |     |
| 7/20/26 | 93.03                                 | 93.03            | 0.00   | 77   | 7.7            | 7.3 | 6.6 | 7.0          | 0.1 | 206           | 7   | 6.7            | 108 | 86                  | 6    | 17.2          | 13.9  | 10.5  | 10.9 | 2.8   | 2.1 | 162   | 58      | 0.50192        | 0.16725 | 2.94    | 0.016 | 10    | 9.3  | 0.0                              |                         |              |     |                   |     |
| 7/21/26 | 137.00                                | 97.49            | 39.50  | 77   | 7.7            | 7.3 | 6.8 | 2.0          | 0.1 | 126           | 29  | 6.5            | 96  | 86                  | 15   | 17.5          | 18.4  | 13.8  | 9.3  | 2.9   | 2.2 | 167   | 65      | 0.00069        | 0.15708 | 4.52    | 0.016 | 420   | 5.3  | 0.0                              |                         |              |     |                   |     |
| 7/22/26 | 146.77                                | 120.78           | 25.98  | 78   | 7.8            | 7.2 | 6.6 | 3.5          | 0.1 | 152           | 22  | 5.8            | 60  | 48                  | 11   | 17.2          | 23.5  | 17.4  | 14.0 | 2.7   | 1.9 | 112   | 42      | 0.35479        | 0.10732 | 4.62    | 0.016 | 23    | 10.5 | 0.0                              |                         |              |     |                   |     |
| 7/23/26 | 86.09                                 | 86.09            | 0.00   | 75   | 7.5            | 7.4 | 6.6 | 7.0          | 0.1 | 62            | 30  | 7.2            | 76  | 60                  | 4    | 17.5          | 17.9  | 12.9  | 14.6 | 4.9   | 3.5 | 166   | 34      | 0.43210        | 0.22014 | 2.60    | 0.016 | 8     | 10.9 | 0.0                              |                         |              |     |                   |     |
| 7/24/26 | 67.01                                 | 67.01            | 0.00   | 71   | 7.1            | 7.4 | 6.7 | 6.5          | 0.2 | 158           | 7   | 6.6            | 146 | 100                 | 5    | 18.0          | 21.6  | 15.7  | 9.7  | 4.4   | 3.3 | 201   | 49      | 0.42242        | 0.31011 | 2.53    | 0.016 | 8     | 11.8 | 0.0                              |                         |              |     |                   |     |
| 7/25/26 | 77.67                                 | 76.61            | 1.06   | 74   | 7.4            | 7.3 | 6.7 | 9.0          | 0.2 | 236           | 9   | 5.2            | 157 | 112                 | 6    | 18.0          | 19.6  | 14.4  | 7.2  | 4.7   | 3.5 | 268   | 61      | 0.37903        | 0.21132 | 3.15    | 0.016 | 4     | 7.6  | 0.0                              |                         |              |     |                   |     |
| 7/26/26 | 62.85                                 | 62.85            | 0.00   | 74   | 7.4            | 7.3 | 6.5 | 7.0          | 0.1 | 153           | 5   | 7.4            | 98  | 65                  | 4    | 18.0          | 17.3  | 12.9  | 8.2  | 3.8   | 2.8 | 248   | 65      | 0.36786        | 0.13304 | 2.54    | 0.016 | 4     | 7.6  | 0.0                              |                         |              |     |                   |     |
| 7/27/26 | 63.15                                 | 63.15            | 0.00   | 78   | 7.8            | 7.2 | 6.5 | 7.5          | 0.1 | 394           | 7   | 6.5            | 169 | 112                 | 4    | 17.8          | 18.1  | 13.2  | 7.4  | 7.5   | 5.5 | 270   | 36      | 0.05229        | 0.13180 | 2.35    | 0.016 | 4     | 9.0  | 0.0                              |                         |              |     |                   |     |
| 7/28/26 | 63.31                                 | 63.31            | 0.00   | 79   | 7.9            | 7.2 | 6.6 | 4.5          | 0.1 | 282           | 7   | 5.0            | 193 | 134                 | 7    | 17.9          | 17.1  | 12.4  | 6.4  | 4.4   | 3.2 | 288   | 65      | 0.14176        | 0.17224 | 2.34    | 0.016 | 4     | 12.2 | 0.0                              |                         |              |     |                   |     |
| 7/29/26 | 58.47                                 | 58.47            | 0.00   | 78   | 7.8            | 7.2 | 6.6 | 6.0          | 0.1 | 220           | 7   | 6.1            | 114 | 107                 | 7    | 17.8          | 20.7  | 15.5  | 5.5  | 3.2   | 2.4 | 258   | 82      | 0.20604        | 0.16430 | 2.27    | 0.016 | 4     | 11.5 | 0.0                              |                         |              |     |                   |     |
| 7/30/26 | 56.69                                 | 56.69            | 0.00   | 78   | 7.8            | 7.1 | 6.6 | 7.0          | 0.1 | 262           | 8   | 4.7            | 188 | 122                 | 8    | 18.0          | 20.0  | 14.8  | 4.9  | 4.6   | 3.5 | 309   | 67      | 0.41168        | 0.13279 | 2.31    | 0.016 | 4     | 14.2 | 0.0                              |                         |              |     |                   |     |
| 7/31/26 | 57.31                                 | 57.31            | 0.00   | 78   | 7.8            | 7.3 | 6.4 | 2.5          | 0.1 | 177           | 10  | 4.9            | 173 | 165                 | 8    | 18.3          | 17.6  | 13.1  | 5.6  | 4.9   | 3.7 | 319   | 67      | 0.39840        | 0.19318 | 1.12    | 0.016 | 13    | 17.2 | 0.0                              |                         |              |     |                   |     |
| SUM     | 3135.0                                | 2762.8           | 372.2  | 76   | 7.6            | 7.3 | 6.6 | 5.1          | 0.1 | 173           | 17  | 6.4            | 121 | 91                  | 10   | 558.7         | 558.7 | 19.6  | 14.5 | 10.8  | 4.3 | 3.2   | 201     | 52             | 12.263  | 5.225   | 3.17  | 0.016 | 20   | 8.5                              | 0.0                     |              |     |                   |     |
| Average | 101.13                                | 89.12            | 21.9   | 76   | 7.6            | 7.3 | 6.6 | 5.1          | 0.1 | 173           | 17  | 6.4            | 121 | 91                  | 10   | 18.0          | 19.6  | 14.5  | 10.8 | 4.3   | 3.2 | 201   | 52      | 0.39622        | 0.18856 | 3.17    | 0.016 | 20    | 8.5  | 0.0                              |                         |              |     |                   |     |