

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

June 21, 2021

Crystal Dennis 300 Sower Blvd., 3rd Floor Frankfort, Kentucky 40601

RE: Cedar Creek WQTC, KPDES No: KY0098540 Corrected: Discharge Monitoring Report for March 2021.

Dear Mrs. Dennis:

Please see the corrected and attached Discharge Monitoring Report (DMR) and Monthly Operating Report (MOR) for the Cedar Creek Water Quality Treatment Center for the month of March 2021.

Corrections were applied to the Discharge Monitoring Report (DMR) and Monthly Operating Report due to the treatment center flow totalizer not resetting accordingly. Additionally, please see the document displaying the influent and effluent treatment center flow totalizer records.

The 1st quarter biomonitoring results and the overflow report remain attached.

There were no exceedances or bypasses to report.

If you have any questions concerning the attached DMR's, please contact me at (502)540-6952.

Sincerely

William Ford Process Supervisor-Operations

WEF/ Cedar Creek. 03/21.

Enclosures

Cc: V. Graves R. Shaw



700 West Liberty StreetLouisville, KY 40203-1911Phone: 502.540.6000LouisvilleMSD.org

April 26, 2021

Crystal Dennis 300 Sower Blvd., 3rd Floor Frankfort, Kentucky 40601

RE: Cedar Creek WQTC, KPDES No: KY0098540 Discharge Monitoring Report for March 2021.

Dear Mrs. Dennis:

Attached are the Discharge Monitoring Report (DMR) and the Monthly Operator Report (MOR) for the Cedar Creek WQTC, for the month of March 2021.

Attached is the 1st quarter biomonitoring.

Also, attached is the overflow report.

There were no exceedances or bypasses to report.

If you have any questions concerning the attached DMR's, please contact me at (502) 540-6952.

Sincerely, Staci Huber

Process Supervisor - Operations

SH/ Cedar Creek. 3/21.

Enclosures

Cc: V. Graves R. Shaw

| | A | В | C | D | E | F | G | Н | 1 | IJ | К | L | М | N | 0 | P | Q | R | S | Т | U | V | W | X | Y | Z | AA | AB | AC | AD | AE | AF | AG | AH | AI | AJ | AK |
|----------|----------|---------------------------------|------------------------------|----------------------------|----------|--------|-------|---------------------|----------------|--------------|----------------|--------|--------|---------------------|----------|-------|---------------------|----------------|-----------------|---------------|-------------------|------------------------|-----------------------|------------------------|------------|--------------|----------------|-------|---------|--------|----------|----------------------------|--------------|-------|---------------------|-------------------|--|
| 1 | NAME | OF TREA | TMENT | PLAN | т | CEDA | R CRE | EK WTP | | | | | COUN | TY | JEFFE | RSON | | - | _ | | MONTH | _ | - | arch | |)21 | | | | | 710 | | ma | 7.81 | | | |
| _ | | PERMIT | | | | KY009 | | | | | | PLANT | | | | | MGD | | | | RECEIVI | | _ | | | RCREE | к | | | | | | | | | | |
| 3 | | | SEW | | | ян | | LIDS (m | | | GEN (| | | SPEND IDS (m | | 6 0 4 | CBOD | (mall) | ACT | | SLUDGE | 1 | 450 | | DAODI | | | | | | | | - | | | | |
| - | | SNC | | A SPL | <u> </u> | 1 | | Ling (iii | L . | 1 | | | - 301 | .103.(m | | JUA | 0800 | | ACT | WATED | 1 | - | 1 | | 1 201 | neo | | 5 | LUDGE | HANDLI | NG | | FR | VAL | | | |
| 4 | | V LL | He F | S F | | | | | | N N | Ner | BELOW | | | NH NH | | | Ner I | RE | TURN | WAST | ED (mg/L) | | | SLU | | F | RAW | | | HAULED | | | | | | |
| | | | E E MO | FEE | | | | Σź | | 4 AB | EFL | A BE | | ≻₽ | EFFLUENT | | ≻ ₽ | EFL | × | | | E F | dr) | l/bm | | | | S | | SOI | | z | ng/L | | S | | ш' ғ |
| | ш | J LIO | E S | E C | > | _ | _ | LUE | L m | EA | L L | EAN | ~ | LUE | L L | | AR 1 | | DAY | 600 | YO g | G S | 50 | ss (| z | ∣ <u>z</u> ∣ | ş | SOL | S ATILE | SOL | ATLLE | RAW | E Z | | hor | e | |
| 5 | DATE | TOTAL FLOW (MILLION GALLONS) | GRIT REMOVED (CUBIC FEET) | SCREENINGS (CUBIC FEET) | RAW | FINAL | RAW | PRIMARY EFFLUENT | FINAL EFFLUENT | STREAM ABOVE | FINAL EFFLUENT | STREAM | RAW | PRIMARY EFFLUENT | FINAL | RAW | PRIMARY EFFLUENT | FINAL EFFLUENT | GAL/DAY 1000 | MLSS 41000 | GAL/DAY X 1000 | DISSOLVED OXYGEN (m | MLSS (mg/L) x 1000 | MLVSS (mg/L) X 1000 | 30 MIN | NIM 06 | ALLONS 1000 | DRY | VOLATI | DRY | VOLATILE | VITHDRAV ALLONS 1000 | NH3-N (mg/L) | ECOLI | Total Phosphorus | Total Nitrogen | TOTAL FLOW INF. (MILLION GALLONS) |
| 6 | 1 | 19.32 | 2.48 | 2.48 | | 7.6 | | 1 | - | 11 | 8.8 | | 102 | | 6 | 50 | | 5 | 6 | 9280 | 60000 | 4.8 | 3620 | | | 0 | 12.37 | × | 20 | 0.86 | 1.2 | 75600 | 0.25 | | 0.3 | | 12.3 |
| 7 | 2 | 14.19 | 2.48 | 2.48 | 7.5 | | | | | | | | | | | | | | 5 | 9600 | 50000 | 4.9 | 2770 | | 450 | | 10.80 | | _ | | | 119700 | | 1 | 0.0 | - OIL O | 10. |
| 8 | 3 | 12.55 | 2.48 | 2.48 | 7.7 | | | | | | | | | | | | | | 4 | 9370 | 50000 | 3.6 | 3000 | 2410 | 500 | | 9.61 | | | | | 56700 | | | | | 9.6 |
| 9 | 4 | 10.16 | 2.48 | 2.48 | 7.6 | | 1 | | | | | | | | | | | | 3 | 10900 | 40000 | 4.0 | 2560 | 2150 | 400 | | 8.45 | | | | | 37800 | | | | | 8.4 |
| 10 | 5 | 7.96 | 2.48 | 2.48 | 7.6 | | | | | | | | | | | | | | 3 | 11140 | 50000 | 3.9 | 3460 | 2850 | 550 | | 6.62 | | | | | 37800 | | | | | 6.6 |
| 11 | 6 | 7.37 | 2.48 | 2.48 | | | | | | | | | | | | | | | 3 | | 50000 | 4.0 | | | 600 | | 6.10 | | | | | 0 | | | | | 6. |
| 12 | 7 | 6.93 | 2.48 | 2.48 | | | - | | | | | | | | | | | | 3 | | 50000 | 4.0 | | | 650 | | 5.87 | | | | | 0 | | | | | 5.8 |
| 13 | 8 | 6.39 | 2.48 | 2.48 | | 7.4 | - | - | | | 8.3 | | 104 | | 5 | 75 | | 5 | 4 | 9600 | 70000 | 3.8 | 4150 | 2800 | 700 | | 5.45 | | | 0.96 | | 75600 | 1.20 | | 0.3 | 2.95 | 5.4 |
| 14 | 9 | 6.24 | 2.48 | 2.48 | <u> </u> | - | - | - | - | | | | | | _ | _ | - | _ | 4 | 8730 | 80000 | 4.0 | 4180 | - | 750 | _ | 5.24 | | _ | | | 0 | | 33 | | | 5.24 |
| 15 | 10 | 6.21 | 2.48 | 2.48 | - | - | - | | | | _ | | _ | | | | - | - | 4 | 8450 | 85000 | 4.1 | 4120 | | + + | | 5.15 | | | | | 75600 | | | | | 5.1 |
| 16 | 11 | 6.68 | 2.48 | 2.48 | <u> </u> | - | - | | - | + | _ | - | | | | _ | | | 4 | 9500 | 85000 | 4.2 | 4150 | | | | 5.50 | _ | | | | 75600 | | | | | 5. |
| 17 18 | 12 13 | 14.30 | 2.48 | 2.48 | 7.6 | - | - | - | | + | _ | | | _ | | | | _ | 5 | 10940 | 49000 | 4.5 | 2730 | 2340 | - | | 15.41 | | | | | 75600 | | | | | 15.4 |
| 18 | 13 14 | 14.18 14.18 | 2.48 | 2.48 | - | - | - | - | | + | _ | _ | - | | | | - | | 6 | | 60000 | 4.3 | - | - | 620 | - | 10.55 | _ | | _ | | 50400 | | | | | 10.58 |
| 20 | 14 | 9.53 | 2.48 | 2.48 | 7.4 | 7.6 | - | | | +-+ | 8.7 | | 230 | | 6 | 440 | | - | 6 | 40000 | 60000 | 4.3 | | - | 580 | | 10.55 | - | | - | | 0 | | | | | 10.55 |
| 20 | 16 | 9.53 | 2.46 | 2.48 | - | 7.0 | - | - | - | | 0.7 | - | 230 | | 0 | 110 | - | 0 | 9 5 | 10000 9780 | 80000 70000 | 3.9 | 4360 3870 | | + + | - | 16.07 | - | - | 1.1 | | 75600 | 0.36 | | 0.3 | 5.5 | 7.69 |
| 22 | 17 | 8.82 | 2.40 | 2.48 | | - | - | - | - | | - | - | - | | - | - | - | | 5 | 10350 | 75000 | 4.0 | 4010 | - | 720 670 | | 7.79 | - | - | | | 63000 | | 1 | | | 7.79 |
| 23 | 18 | 10.83 | 2.48 | 2.48 | | - | - | + | | | - | - | - | | | | | | 4 | 10220 | 75000 | 4.0 | 4010 | | 700 | | 7.08 | | | | | 37800 | | | | _ | 7.08 |
| 24 | 19 | 9.71 | 2.48 | 2.48 | | - | | - | - | | | | | - | | | - | - | 4 | 11500 | 80000 | 4.4 | 3830 | | 650 | | 7.66 | - | | | | 75600 | | | | - | 8.67 |
| 25 | 20 | 8.37 | 2.48 | 2.48 | 7.0 | - | t — | 1 | - | | | - | | - | | | - | - | 3 | 11500 | 75000 | 4.6 | 3030 | 3130 | 650 | - | 6.84 | - | - | | | 37800 630000 | | | | | 7.66 |
| 26 | 21 | 7.89 | 2.48 | 2.48 | | - | | 1 | | | | | | | | - | | - | 3 | - | 75000 | 4.1 | + | - | 530 | - | 6.49 | - | - | _ | | 030000 | | | - | | 6.84 |
| 27 | 22 | 8.07 | 2.48 | 2.48 | 7.2 | 7.3 | 1 | 1 | | | 8.4 | | 480 | | 7 | 149 | | 5 | 4 | 8940 | 75000 | 4.2 | 3830 | 3160 | 600 | | 5.95 | - | - | 1.5 | | 75600 | 0.57 | | 0.3 | 5.77 | 5.95 |
| 28 | 23 | 7.08 | 2.48 | 2.48 | 7.5 | | | | | | | | | | - | | | | 3 | 9410 | 85000 | 4.0 | 3990 | | 650 | | 5.64 | | - | 1.0 | | 37800 | 0.07 | 7 | 0.0 | 0.11 | 5.64 |
| 29 | 24 | 6.67 | 2.48 | 2.48 | 7.6 | | | 1 | | | | | | | | | | | 3 | 10600 | 85000 | 3.6 | 4220 | | 700 | | 5.60 | | | | | 69300 | | | - | | 5.6 |
| 30 | 25 | 7.86 | 2.48 | 2.48 | 7.3 | | 1 | | | | | | | | | | | | 3 | 9330 | 85000 | 3.4 | 3630 | | 650 | | 6.17 | | | | | 75600 | $ \neg $ | | - | - | 6.17 |
| 31 | 26 | 8.44 | 2.48 | 2.48 | 7.8 | | | | | | | | | | | | | | 3 | 10420 | 75000 | 4.2 | 3370 | 2740 | 600 | | 6.87 | | | - | _ | 75600 | | | | | 6.87 |
| 32 | 27 | 7.46 | 2.48 | 2.48 | | | | | | | | | | | | | | | 3 | | 75000 | 4.1 | | | 710 | | 6.04 | | | | | 56700 | | | - | | 6.04 |
| 33 | 28 | 7.62 | 2.48 | 2.48 | | | | | | | | | | | | | | | 4 | | 75000 | 4.8 | | | 700 | | 6.24 | | | | | 0 | | | | | 6.24 |
| 34 | 29 | 6.81 | 2.48 | 2.48 | 7.5 | | 0 | | | | | | | | | | | | 3 | 8420 | 90000 | 3.8 | 3710 | 3020 | 630 | | 5.69 | | | | | 75600 | | | | | 5.69 |
| 35 | 30 | 6.65 | 2.48 | 2.48 | | | | | | | | | | | _ | | | | 3 | 9950 | 80000 | 4.6 | 3770 | | 700 | _ | 5.43 | | | | | 75600 | | | | | 5.43 |
| 36 | 31 | 12.08 | 2.48 | 2.48 | 7.4 | | | | | | | | | | | | | | 4 | 9740 | 80000 | 5.2 | 2940 | 2390 | 460 | | 11.45 | | | | | 75600 | | | | | 11.45 |
| _ | Tot. | 290.14 | 76.88 | 76.88 | - | | - | - | | \vdash | _ | | | | | | | | 127.2 | | | | | | | | 243.35 | | | | | 2217600 | | | | | 234.97 |
| 38 | Avg. | 9.36 | 2.48 | 2.48 | 7.5 | 7.5 | | 1 | | | 8.5 | | 229 | | 6 | 96 | | 5 | 4.103 | 9833.5 | 70129 | 4.161 | 3664 | 2974 | 621.9 | | 7.85 | | | 1.105 | | 71535.5 | 0.60 | 4 | 0.3 | 4.378 | 7.57967742 |
| 40 | | | - | Ĩ | | | | RESID | ENTIAL | | | | | | INDUS | TRIAL | WASTE | POPUL | ATION | EQUIVA | LENT | 1 | | | | | | | | | | | | | | | |
| 41 | | | | | | | | сомм | _ | | | | | | 89 | | | 440 | | | 851 | 19 | | | Randoli | ph P. Ku | istes JR. | | | 14555 | | | | | _ | - | |
| 42 | | | | | | | | INDUS | | | | | | | FLO | | | CB | | | TS | _ | | - | | PERAT | | - | - | | ERT. NO | | | | _ | - | |
| 43 | TOTAL | NUMBER | R OF SI | EWER | CONNI | ECTION | IS | | | | c |) | | | | | | | | | | | | | 1 1 | 502-540 | | | | Ĩ | | | - | -+ | - | _ | |
| | | CONNE | | | T | 0 | x | 4 | - | | - | | RED PC | PULAT | ION | | | | | | | | | | | | PLANT | TRUCO | HONE | | | | | - | | | |

DMR Copy of Record

| Permit | | | | | | | | | | | | | | | | | | |
|---|---------------------------|--------|----------------|----------------------|-------------|------------------------|---------------|-------------------------------------|------------------------|----------|---------------------|-------------|------------------------|-----------|--------------------------|------------------------------|--|----------------------------------|
| Permit #: K | 0098540 | | | Permitt | ee: | | | Cedar Creek W | QTC MS | D | | F | Facility: | | CE | DAR CREEK | NQTC MSD | |
| Major: Ye | s | | | Permitt | ee Addres | SS: | | 700 W Liberty S Louisville, KY 4 | | | | F | Facility Locatio | n: | | 05 CEDAR CR DUISVILLE, KY | | |
| Permitted Feature: 00 E> | 1 ternal Outfall | | | Discha | rge: | | | 001-1 MUNICIPAL DI | SCHARG | θE | | · | | | | | | |
| Report Dates & Status | | | | I | | | | | | | | | | | | | | |
| Monitoring Period: Fr | om 03/01/21 to 03/31/21 | | | DMR D | ue Date: | | | 04/28/21 | | | | S | Status: | | Ne | tDMR Validate | ed | |
| Considerations for Form Completion | | | | | | | | | | | | | | | | | | |
| Principal Executive Officer | | | | | | | | | | | | | | | | | | |
| First Name: Ja | mes A. | | | Title: | | | | Executive Direct | tor | | | r | Telephone: | | 502 | 2-540-6000 | | |
| Last Name: Pa | rrott | | | | | | | | | | | | | | | | | |
| No Data Indicator (NODI) | | | | | | | | | | | | | | | | | | |
| Form NODI: | | | | | | | | | | | | | | | | | | |
| Parameter | Monitoring Location | Seasor | n # Param. NOI | DI | | | uantity or Lo | | | | | | Quality or Conce | | | | of Ex. Frequency of Analysi | is Sample Type |
| Code Name | | | | Sample | Qualifier 1 | Value 1 | Qualifier 2 | 2 Value 2 | Units | Qualifie | er 1 Value 1 8.3 | Qualifier 2 | 2 Value 2 | Qualifier | 3 Value 3 | Units 19 - mg/L | 01/07 - Weekly | GR - GRAB |
| 00300 Oxygen, dissolved [DO] | 1 - Effluent Gross | 0 | | Permit Req | | | | | | >= | 7.0 INST MIN | | | | | 1.0 / | 01/07 - Weekly | GR - GRAB |
| | | | | Value NOD | I | | | | | | | | | | | | | |
| | | | | Sample | | | | | | = | 7.3 | | | = | 7.6 | 12 - SU | 01/07 - Weekly | GR - GRAB |
| 00400 pH | 1 - Effluent Gross | 0 | | Permit Req | | | | | | >= | 6.0 MINIMUM | | | <= | 9.0 MAXIMUM | 12 - SU | 01/07 - Weekly | GR - GRAB |
| | | | | Value NOD | | | | | | | | | | | | | | |
| | | | | Sample Permit Reg | | 545.0 1877.0 MO AVG | = | 967.0 2815.0 MX WK AV | 26 - lb/d 26 - lb/d | | | | 6.0 30.0 MO AVG | = <= | 7.0 45.0 MX WK AV | 19 - mg/L 19 - mg/L | 01/07 - Weekly 01/07 - Weekly | CP - COMPOS 24 - COMP24 |
| 00530 Solids, total suspended | 1 - Effluent Gross | 0 | | Value NOD | | | = | 2013.0 10.7 10.7 10 | 20 10/0 | | | ~- | | ~- | -5.0 М/Х М/Х/Х | 13 mg/E (| | |
| | | | | Sample | | | | | | | | = | 229.0 | = | 480.0 | 19 - mg/L | 01/07 - Weekly | CP - COMPOS |
| 00530 Solids, total suspended | G - Raw Sewage Influe | nt 0 | | Permit Req | | | | | | | | | Req Mon MO AVC | | Req Mon MX WK A | - | 01/07 - Weekly | 24 - COMP24 |
| | | | | Value NOD | I | | | | | | | | | | | | | |
| | | | | Sample | | | | | | | | | 4.0 | | 6.0 | 19 - mg/L | 01/07 - Weekly | CP - COMPOS |
| 00600 Nitrogen, total [as N] | 1 - Effluent Gross | 0 | | Permit Req | | | | | | | | | Req Mon MO AVC | 6 | Req Mon MX WK A | V 19 - mg/L (| 01/07 - Weekly | 24 - COMP24 |
| | | | | Value NOD | | | | | | | | | | | | | | |
| | 4 5/1 4 0 | | | Sample Permit Reg | | 51.0 626.0 MO AVG | = | 64.0 939.0 MX WK AV | 26 - lb/d 26 - lb/d | | | | 0.6 10.0 MO AVG | = | 1.2 15.0 MX WK AV | 19 - mg/L 19 - mg/l | 01/07 - Weekly 01/07 - Weekly | CP - COMPOS 24 - COMP24 |
| 00610 Nitrogen, ammonia total [as N] | 1 - Effluent Gross | 2 | | Value NOD | | 020.0 1110 7110 | ~ | | 20 10/0 | | | ~ | | | | (|) 01/07 - Weekly | |
| | | | | Sample | - | | | | | | | = | 0.3 | = | 0.3 | 19 - mg/L | 01/07 - Weekly | CP - COMPOS |
| 00665 Phosphorus, total [as P] | 1 - Effluent Gross | 2 | | Permit Req | | | | | | | | | 2.0 MO AVG | <= | 3.0 MX WK AV | 19 - mg/L | 01/07 - Weekly | 24 - COMP24 |
| . , | | | | Value NOD | I | | | | | | | | | | | | | |
| | | | | Sample | - | 9.36 | | 11.211 | 03 - MGD | | | | | | | | 99/99 - Continuous | CN - CONTIN |
| 50050 Flow, in conduit or thru treatment plan | t 1 - Effluent Gross | 0 | | Permit Req | | Req Mon MO A | /G | Req Mon MX WK A | / 03 - MGD |) | | | | | | | 99/99 - Continuous | RE - Record (manu |
| | | | | Value NOD | | | | | | | | | | | | | | |
| | | | | Sample Permit Reg | | 7.58 Req Mon MO AV | = /G | 8.546 Req Mon MX WK AV | 03 - MGD / 03 - MGD | | | | | | | | 99/99 - Continuous 99/99 - Continuous | CN - CONTIN RE - Record (manu |
| 50050 Flow, in conduit or thru treatment plar | t G - Raw Sewage Influe | nt 0 | | Value NOD | | | | | | | | | | | | (| 5 | |
| | | | | Sample | - | | | | | | | = | 4.0 | = | 33.0 | 13 - #/100mL | 01/07 - Weekly | GR - GRAB |
| 51040 E. coli | 1 - Effluent Gross | 0 | | Permit Req | | | | | | | | <= | 130.0 30DA GEO | | 240.0 7 DA GEO | 13 - #/100mL | | GR - GRAB |
| | | | | Value NOD | 1 | | | | | | | | | | | | | |
| | | | | Sample | - | 471.0 | = | 806.0 | 26 - lb/d | | | | 5.0 | = | 6.0 | 19 - mg/L | 01/07 - Weekly | CP - COMPOS |
| 80082 BOD, carbonaceous [5 day, 20 C] | 1 - Effluent Gross | 0 | | Permit Req | | 626.0 MO AVG | <= | 939.0 MX WK AV | 26 - lb/d | | | <= | 10.0 MO AVG | <= | 15.0 MX WK AV | 19 - mg/L (| 01/07 - Weekly | 24 - COMP24 |
| | | | | Value NOD | 1 | | | | | | | | 22.2 | | 1.10.0 | 10 " | 04/07 | |
| | | - | | Sample Permit Reg | | | | | | | | = | 96.0 Req Mon MO AVO | = | 149.0 Req Mon MX WK A | 19 - mg/L V 19 - mg/L | 01/07 - Weekly 01/07 - Weekly | CP - COMPOS 24 - COMP24 |
| 80082 BOD, carbonaceous [5 day, 20 C] | G - Raw Sewage Influe | nt U | | Value NOD | | | | | | | | | | | | <u> </u> | J | |
| | | | | Sample | | | | | | = | 95.0 | | | | | 23 - % | 01/30 - Monthly | CA - CALCTD |
| 80091 BOD, carb-5 day, 20 deg C, percent re | noval K - Percent Removal | 0 | | Permit Req | | | | | | >= | 85.0 MO AV MN | | | | | 22 0/ | 01/30 - Monthly | CA - CALCTD |
| , | | | | Value NOD | I | | | | | | | | | | | | | |

| | | | | Sample | | | = | 97.0 | | 23 - % | | 01/30 - Monthly | CA - CALCTD |
|-------|-----------------------------------|---------------------|---|-----------------|--|--|----|---------------|--|--------|---|-----------------|-------------|
| 81011 | Solids, suspended percent removal | K - Percent Removal | 0 | Permit Req. | | | >= | 85.0 MO AV MN | | 23 - % | 0 | 01/30 - Monthly | CA - CALCTD |
| 01011 | | | Ū | Value NODI | | | | | | | Ŭ | | |
| Submi | ission Noto | | | | | | | | | | | | · |

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 | |
| CCMOR032021.XLS | | xls |
| CCCoverletter0321.pdf | | pdf |
| 03_march_discharge_report_all_service_fin.pdf | | pdf |
| CorrectedCCMOR032021.pdf | | pdf |
| CCPlantFlowTotalizerDocument.pdf | | pdf |
| CorrectedCCCoverletter032021.pdf | | pdf |
| Report Last Saved By | | |
| Cedar Creek WQTC MSD | | |
| User: | WILLIAM.FORD@LOUISVILLEMSD.ORG | |
| Name: | William Ford | |
| E-Mail: | william.ford@louisvillemsd.org | |
| Date/Time: | 2021-06-21 13:03 (Time Zone: -04:00) | |
| Report Last Signed By | | |
| User: | WILLIAM.FORD@LOUISVILLEMSD.ORG | |
| Name: | William Ford | |
| E-Mail: | william.ford@louisvillemsd.org | |
| Date/Time: | 2021-06-21 13:03 (Time Zone: -04:00) | |

| Туре | Size |
|------|----------|
| | 336896.0 |
| | 30506.0 |
| | 146241.0 |
| | 154505.0 |
| | 241236.0 |
| | 44584.0 |



| KPDES # | Facility | | Water Quality Tr | eatement Center | am of Treatment Center | Region | |
|--|----------------------|------------|--------------------|----------------------|------------------------------|-----------------------|--------------|
| KY0022411 | ID MSD0278 | | MORRIS FORMAN | | | | NA |
| Facility Type | Facility ID | | Facility Address | If Pump Station, Nar | ne of Pump Station: | Receiving Stream | Discharge to |
| SMHSewer Manhole Activity Code / Description | 08935-SM | Initiated | 1001 BRECKENRIDGE | | Event Date Problem | MIDDLE FORK BEARGRASS | STREAM |
| : DISREV: RAIN EVENT DISCHARGE | 3352603 | 03/11/2021 | DAVIS BROWNMITCHEL | | 11/29/2001 LACK OF SYSTEM | | /12/21 07:45 |

| Discharge Amount: | 800,000 GAL |
|----------------------|--|
| Cause: | LACK OF SYSTEM CAPACITY HEAVY RAIN. |
| Clean Up: | NO CLEANUP REQUIRED DISCHARGE PIPE IS SUBMERGED AND DISCHARGES DIRECTLY IN TO THE CREEK. |
| Control Zone: | CONTROL ZONE WAS NOT ESTABLISHE THE PIPE DISCHARGES DIRECTLY TO STREAM CREEK. |
| Impact: | NONE OBSERVED OVER FLOW NOTIFICATION RECEIVED FROM REMOTE DISCHARGE ALARM. |
| Repair: | LOCATION INCLUDED IN THE IOAP. |
| Public Notification: | PERMANENT SIGNS ALONG THE CREEK AVOID CONTACT WITH DISCHARGED CONTENT. |

| Notifications: | | | |
|-----------------|--------|--|---|
| 3/12/21 1:00 PM | DISNOT | EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV | |
| 3/12/21 1:00 PM | DISSNO | WAITING TO COMPLETE THE DISCHARGE INFORMATION | T |



| KPDES # | Facility | Water Quality Trea | tement Center | Receiving St | Region | |
|--|--------------------------------------|--|----------------------|--|------------------------|---|
| KY0022411 | ID MSD0278 | MORRIS FORMAN | | | | NA |
| Facility Type | Facility ID | Facility Address | If Pump Station, Nam | e of Pump Station: | Receiving Stream | Discharge to |
| SMHSewer Manhole | 100756A-X | 1473 FRANKFORT AVE | | | SOUTH FORK BEARGRASS C | REEK GROUND |
| Activity Code / Description : DISREV: RAIN EVENT DISCHARGE | <u>WO #</u> <u>Ref No</u> 3351196 | Initiated Initiated By Assigned Te 03/04/2021 ANDERSON ANDERSON | | Event DateProblem03/04/2021PUMPETO COE | D DUE UNAUTHORIZED | Completed Condition 03/09/21 01:41 PM |

| Discharge Amount: | 156,000 GAL |
|----------------------|---------------------------------------|
| Cause: | FLOODING AND LACK OF SYSTEM CAPACITY. |
| Clean Up: | PICK UP TRASH AND SPREAD LIME. |
| Control Zone: | SIGNS AND BARRICADES. |
| Impact: | MINOR TRASH A DEBRIS NEXT TO MANHOLE. |
| Repair: | NONE. |
| Public Notification: | METRO SAFE. |

| 3/4/21 1:00 PM | DISNOT | EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV |
|----------------|--------|--|
| 3/4/21 1:00 PM | DISSNO | WAITING TO COMPLETE THE DISCHARGE INFORMATION |



| KPDES # | Facility | | Water C | Quality Treat | ement Center | Reco | eiving Stream o | er Regi | on | |
|--|-------------------------------|--------------------------------|-----------------------|-------------------------------------|---|--------------------------|---|--|--|----------|
| KY0022420 | ID MSD0202 | | HITE CRE | EK | | | HITE (| CREEK | NA | |
| Facility Type | Facility ID | | Facility Addr | ess | If Pump Station, | Name of Pump | Station: | Receiving Stream | Disch | arge to |
| SSLSewer Service Line | 111227215 | | 7215 FOX H | ARBOR RD | | | | HARRODS CREEK | GF | ROUND |
| Activity Code / Description : DISREV: RAIN EVENT DISCHARGE | <u>WO # Ref No</u> 3353121 | <u>Initiated</u> 03/15/2021 | Initiated By DODDS | <u>Assigned To</u> Kelvin Wilson | Disch Status REPAIRED - ISSUE RESOLVED | Event Date 03/15/2021 | Problem OBSTRUCTION NOT GREASE / ROOTS | Result - UNAUTHORIZED DISCHARGE- WATERS | <u>Completed</u> 03/15/21 07:23 PM | 3 LAT |

| Discharge Amount: | 1 GAL |
|----------------------|--|
| Cause: | PRIVATE PROPERTY ISSUE. |
| Clean Up: | CUSTOMER RESPONSIBLE FOR CLEANUP. |
| Control Zone: | BARRICADES AND CONES. |
| Impact: | ADVISED THE CUSTOMER TO AVOID CONTACT WITH THE IMPACTED AREA. |
| Repair: | ADVISED THE CUSTOMER TO CONTACT A PLUMBER - PRIVATE PORTION OF THE PROPERTY SERVICE CONNECTION NEEDS TO BE HOOKED BACK UP. |
| Public Notification: | CONTACTED P/O. |

| 3/16/21 1:00 AM | DISNOT | EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV | |
|-----------------|--------|--|--|
| 3/16/21 1:00 AM | DISSNO | WAITING TO COMPLETE THE DISCHARGE INFORMATION | |



| KPDES # | Facility ID | Water Qu | ality Treatement Center | Receiving Strea | am of Treatment Center | Region |
|--|-------------------------------|--|--|--|------------------------|--|
| KY0022411 | MSD0278 | MORRIS FC | PRMAN | | | NA |
| Facility Type | Facility ID | Facility Addres | s If Pump Station, N | ame of Pump Station: | Receiving Stream | Discharge to |
| SMHSewer Manhole | 27008 | 1044 ALTA VIS | STA RD | | MIDDLE FORK BEARGRAS | S GROUND |
| Activity Code / Description : DISREV: RAIN EVENT DISCHARGE | <u>WO # Ref No</u> 3350302 | Initiated Initiated By 03/01/2021 DAVIS BROWN | Assigned To MITCHELL DOCUMENTE D | Event DateProblem03/19/2020LACK OFSYSTEM | UNAUTHORIZED | Completed Condition 03/02/21 08:15 AM MAIN |

| Discharge Amount: | 120,000 GAL |
|----------------------|---|
| Cause: | LACK OF SYSTEM CAPACITY HEAVY RAIN. |
| Clean Up: | WO#3350810 |
| Control Zone: | BARRICADE AND TEMP SIGNS PLACED AROUND THE IMPACTED AREA. |
| Impact: | MANHOLE DISCHARGING. |
| Repair: | LOCATION INCLUDED IN IOAP. |
| Public Notification: | PUBLIC NOTIFIED THROUGH TEMP SIGNS AT DISCHARGE SITE AND PERMANENT SIGNS ALONG THE CREEK AVOID CONTACT WITH DISCHARGED CONTENT. |

| Notifications: | | | |
|----------------|--------|--|--|
| 3/1/21 1:00 PM | DISNOT | EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV | |
| 3/1/21 1:00 PM | DISSNO | WAITING TO COMPLETE THE DISCHARGE INFORMATION | |



| KPDES # | Facility ID | | Water Quality Treate | ement Center | Receiving | g Stream of Treatment Cent | er Region |
|--|-------------------------------|----|--|---------------------------------------|-------------------|---|---|
| KY0022411 | MSD0278 | | MORRIS FORMAN | | | | NA |
| Facility Type | Facility ID | Fa | acility Address | If Pump Station, Na | me of Pump Static | n: Receiving Stream | Discharge to |
| SMHSewer Manhole | 27012 | 24 | 408 GRAY FOX RD | | | MIDDLE FORK BEARGE | RASS STREAM |
| Activity Code / Description : DISREV: RAIN EVENT DISCHARGE | <u>WO # Ref No</u> 3350303 | | i <u>tiated By Assigned To</u> AVIS BROWNMITCHELL | <u>Disch Status</u> DOCUMENTE D | 03/09/2019 LA | Debem Result CK OF UNAUTHORIZED STEM DISCHARGE- | Completed 03/02/21 08:14 AM MAIN |

| Discharge Amount: | 120,000 GAL |
|----------------------|---|
| Cause: | LACK OF SYSTEM CAPACITY HEAVY RAIN. |
| Clean Up: | WO#3350810 |
| Control Zone: | BARRICADES AND TEMP SIGNS PLACED AROUND THE IMPACTED AREA. |
| Impact: | MANHOLE DISCHARGING. |
| Repair: | LOCATION INCLUDED IN IOAP. |
| Public Notification: | PUBLIC NOTIFIED THROUGH TEMP SIGNS AT DISCHARGE SITE AND PERMANENT SIGNS ALONG THE CREEK AVOID CONTACT WITH DISCHARGED CONTENT. |

| Notifications: | | | |
|----------------|--------|--|--|
| 3/1/21 1:00 PM | DISNOT | EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV | |
| 3/1/21 1:00 PM | DISSNO | WAITING TO COMPLETE THE DISCHARGE INFORMATION | |



| KPDES # | , | | Water Quality Treat | tement Center | Receiving S | Stream of Treatment Cente | r Region |
|--|------------------------|--------------------------------|---|--------------------------------|--|-----------------------------------|--|
| KY0022411 | ID MSD0278 | | MORRIS FORMAN | | | | NA |
| Facility Type SMHSewer Manhole | Facility ID 28250 | | Facility Address 3506 CHARLANE PKY | If Pump Station, Na | me of Pump Station: | Receiving Stream CHENOWETH RUN | Discharge to DITCH |
| Activity Code / Description : DISREV: RAIN EVENT DISCHARGE | WO # Ref No 3352613 | <u>Initiated</u> 03/12/2021 | Initiated By Assigned To DAVIS BROWNMITCHELL | Disch Status DOCUMENTE D | Event Date Proble 01/03/2005 LACK SYST | OF UNAUTHORIZED | Completed Condition 03/13/21 09:19 AM MAIN |

| Discharge Amount: | 3,318 GAL |
|----------------------|--|
| Cause: | LACK OF SYSTEM CAPACITY HEAVY RAIN. |
| Clean Up: | WO#3352843 |
| Control Zone: | CAUTION TAPE, TEMPORARY DISCHARGE SIGNS, AND BARRICADE PLACED AROUND THE IMPACTED AREA. |
| Impact: | SEWER WATER DISCHARGING FROM THE PICK HOLE ON THE MANHOLE LID. |
| Repair: | LOCATION INCLUDED IN THE IOAP. |
| Public Notification: | PUBLIC NOTIFIED BY DOOR CARD AND TEMP SIGN AT DISCHARGE SITE TO AVOID CONTACT WITH DISCHARGED CONTENT. |

| 3/12/21 1:00 PM | DISNOT | EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV | |
|-----------------|--------|--|--|
| 3/12/21 1:00 PM | DISSNO | WAITING TO COMPLETE THE DISCHARGE INFORMATION | |



| KPDES # | Facility ID | | Water Quality Treat | ement Center | Receiving S | tream of Treatment Center | r Region |
|--|-------------------------------|-------------------------|---|--------------------------------|---|---------------------------|---|
| KY0022411 | MSD0278 | | MORRIS FORMAN | | | | NA |
| Facility Type | Facility ID | | Facility Address | If Pump Station, Na | me of Pump Station: | Receiving Stream | Discharge to |
| SMHSewer Manhole | 28413 | | 3317 DELL RD | | | CHENOWETH RUN | GROUND |
| Activity Code / Description : DISREV: RAIN EVENT DISCHARGE | WO # <u>Ref No</u> 3352647 | Initiated 03/12/2021 | Initiated By Assigned To DAVIS BROWNMITCHELL | Disch Status DOCUMENTE D | Event Date 03/20/2002 Proble LACK SYST | OF UNAUTHORIZED | Completed 03/12/21 01:18 PM MAIN |

| Discharge Amount: | 488 GAL |
|----------------------|--|
| Cause: | LACK OF SYSTEM CAPACITY HEAVY RAIN. |
| Clean Up: | WO#3352845 |
| Control Zone: | TEMPORARY DISCHARGE SIGNS, AND BARRICADE PLACED AROUND THE IMPACTED AREA. |
| Impact: | SEWER WATER DISCHARGING FROM THE PICK HOLE ON THE MANHOLE LID. |
| Repair: | LOCATION INCLUDED IN THE IOAP. |
| Public Notification: | PUBLIC NOTIFIED BY DOOR CARD AND TEMP SIGN AT DISCHARGE SITE TO AVOID CONTACT WITH DISCHARGED CONTENT. |

| 3/12/21 1:00 PM | DISNOT | EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV | |
|-----------------|--------|--|--|
| 3/12/21 1:00 PM | DISSNO | WAITING TO COMPLETE THE DISCHARGE INFORMATION | |



| KPDES # | Facility ID | | Water Quality Treat | ement Center | Receiving St | ream of Treatment Cente | r Region |
|--|-------------------------------|--------------------------------|---|--------------------------------|--|-------------------------|---|
| KY0022411 | MSD0278 | | MORRIS FORMAN | | | | NA |
| Facility Type | Facility ID | | Facility Address | If Pump Station, Na | ame of Pump Station: | Receiving Stream | Discharge to |
| SMHSewer Manhole | 28414 | | 3400 DELL RD | | | CHENOWETH RUN | GROUND |
| Activity Code / Description : DISREV: RAIN EVENT DISCHARGE | <u>WO # Ref No</u> 3352614 | <u>Initiated</u> 03/12/2021 | Initiated By Assigned To DAVIS BROWNMITCHELL | Disch Status DOCUMENTE D | Event Date 01/03/2005 LACK C SYSTE | F UNAUTHORIZED | Completed 03/12/21 01:00 PM MAIN |

| Discharge Amount: | 600 GAL |
|----------------------|--|
| Cause: | LACK OF SYSTEM CAPACITY HEAVY RAIN. |
| Clean Up: | WO#3352847 |
| Control Zone: | CAUTION TAPE, TEMPORARY DISCHARGE SIGNS, AND BARRICADE PLACED AROUND THE IMPACTED AREA. |
| Impact: | SEWER WATER DISCHARGING FROM THE PICK HOLE ON THE MANHOLE LID. |
| Repair: | LOCATION INCLUDED IN THE IOAP. |
| Public Notification: | PUBLIC NOTIFIED BY DOOR CARD AND TEMP SIGN AT DISCHARGE SITE TO AVOID CONTACT WITH DISCHARGED CONTENT. |

| 3/12/21 1:00 PM | DISNOT | EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV | |
|-----------------|--------|--|--|
| 3/12/21 1:00 PM | DISSNO | WAITING TO COMPLETE THE DISCHARGE INFORMATION | |



| KPDES # | Facility ID | | Water Quality Treat | ement Center | Receivir | ng Strea | m of Treatment Cente | er Regio | on |
|--|-------------------------------|--------------------------------|---|---------------------------------------|------------------|----------------------------------|---|--|---------|
| KY0022411 | MSD0278 | | MORRIS FORMAN | | | | | NA | |
| Facility Type | Facility ID | | Facility Address | If Pump Station, N | ame of Pump Stat | ion: | Receiving Stream | | arge to |
| SMHSewer Manhole | 28415 | Initiate d | 3406 DELL RD | Diach Status | Event Data D | | CHENOWETH RUN | | OUND |
| Activity Code / Description : DISREV: RAIN EVENT DISCHARGE | <u>WO # Ref No</u> 3352615 | <u>Initiated</u> 03/12/2021 | Initiated By Assigned To DAVIS BROWNMITCHELL | <u>Disch Status</u> DOCUMENTE D | 12/19/2002 L/ | <u>roblem</u> ACK OF YSTEM | <u>Result</u> UNAUTHORIZED DISCHARGE- | <u>Completed</u> 03/12/21 01:10 PM | |
| | | | | | | | | | MAIN |

| Discharge Amount: | 610 GAL |
|----------------------|--|
| Cause: | LACK OF SYSTEM CAPACITY HEAVY RAIN. |
| Clean Up: | WO#3352848 |
| Control Zone: | CAUTION TAPE, TEMPORARY DISCHARGE SIGNS, AND BARRICADE PLACED AROUND THE IMPACTED AREA. |
| Impact: | SEWER WATER DISCHARGING FROM THE PICK HOLE ON THE MANHOLE LID. |
| Repair: | LOCATION INCLUDED IN THE IOAP. |
| Public Notification: | PUBLIC NOTIFIED BY DOOR CARD AND TEMP SIGN AT DISCHARGE SITE TO AVOID CONTACT WITH DISCHARGED CONTENT. |

| 3/12/21 1:00 PM | DISNOT | EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV | |
|-----------------|--------|--|--|
| 3/12/21 1:00 PM | DISSNO | WAITING TO COMPLETE THE DISCHARGE INFORMATION | |



| KPDES # | Facility ID | | Water Quality Trea | tement Center | Receiving Str | eam of Treatment Center | r Region |
|--|-------------------------------|--------------------------------|---|--------------------------------|--|-------------------------|--|
| KY0022411 | MSD0278 | | MORRIS FORMAN | | | | NA |
| Facility Type | Facility ID | | Facility Address | If Pump Station, Na | me of Pump Station: | Receiving Stream | Discharge to |
| SMHSewer Manhole | 28453 | | 3402 CHARLANE PKY | | | CHENOWETH RUN | DITCH |
| Activity Code / Description : DISREV: RAIN EVENT DISCHARGE | <u>WO # Ref No</u> 3352612 | <u>Initiated</u> 03/12/2021 | Initiated By Assigned To DAVIS BROWNMITCHELL | Disch Status DOCUMENTE D | Event DateProblem10/28/2015LACK OFSYSTEM | UNAUTHORIZED | Completed Condition 03/13/21 09:16 AM MAIN |

| Discharge Amount: | 66,320 GAL |
|----------------------|--|
| Cause: | LACK OF SYSTEM CAPACITY HEAVY RAIN. |
| Clean Up: | WO#3352844 |
| Control Zone: | CAUTION TAPE, TEMPORARY DISCHARGE SIGNS, AND BARRICADE PLACED AROUND THE IMPACTED AREA. |
| Impact: | MANHOLE DISCHARGING. |
| Repair: | LOCATION INCLUDED IN THE IOAP. |
| Public Notification: | PUBLIC NOTIFIED BY DOOR CARD AND TEMP SIGN AT DISCHARGE SITE TO AVOID CONTACT WITH DISCHARGED CONTENT. |

| 3/12/21 1:00 PM | DISNOT | EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV | |
|-----------------|--------|--|--|
| 3/12/21 1:00 PM | DISSNO | WAITING TO COMPLETE THE DISCHARGE INFORMATION | |



| KPDES # | Facility ID | Water Quality Tre | eatement Center | Receiving Strea | am of Treatment Center | Region |
|--|-------------------------------|--|---------------------|---|---|------------------------|
| KY0022411 | MSD0278 | MORRIS FORMAN | | | | NA |
| Facility Type SMHSewer Manhole | Facility ID 40475 | Facility Address 1544 CHEROKEE RD | If Pump Station, Na | ne of Pump Station: | Receiving Stream MIDDLE FORK BEARGRASS | Discharge to GROUND |
| Activity Code / Description : DISREV: RAIN EVENT DISCHARGE | <u>WO # Ref No</u> 3350305 | Initiated Initiated By Assigned 03/01/2021 DAVIS BROWNMITCHEL | | Event Date 03/01/2021 Problem LACK OF SYSTEM | | MAIN |

| Discharge Amount: | 120,000 GAL |
|----------------------|---|
| Cause: | LACK OF SYSTEM CAPACITY HEAVY RAIN. |
| Clean Up: | WO#3350814 |
| Control Zone: | BARRICADES AND TEMP SIGNS PLACED AROUND THE IMPACTED AREA. |
| Impact: | MANHOLE DISCHARGING. |
| Repair: | LOCATION INCLUDED IN IOAP. |
| Public Notification: | PUBLIC NOTIFIED THROUGH TEMP SIGNS AT DISCHARGE SITE AND PERMANENT SIGNS ALONG THE CREEK AVOID CONTACT WITH DISCHARGED CONTENT. |

| Notifications: | | | |
|----------------|--------|--|--|
| 3/1/21 1:00 PM | DISNOT | EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV | |
| 3/1/21 1:00 PM | DISSNO | WAITING TO COMPLETE THE DISCHARGE INFORMATION | |



| KPDES # | Facility ID | Water Quality Trea | atement Center | Receiving Strea | am of Treatment Center | Region |
|--|--|---|----------------------|--|------------------------|---|
| KY0022411 | MSD0278 | MORRIS FORMAN | | | | NA |
| Facility Type SMHSewer Manhole | Facility IDFacility Address457961011ALTA CIR | | If Pump Station, Nan | ne of Pump Station: | Receiving Stream | Discharge to DITCH |
| Activity Code / Description : DISREV: RAIN EVENT DISCHARGE | <u>WO #</u> <u>Ref No</u> 3352617 | Initiated Initiated By Assigned T 03/12/2021 DAVIS BROWNMITCHELL | | Event Date Problem 05/10/2014 LACK OF SYSTEM | | ompleted <u>Condition</u> 3/13/21 10:33 M MAIN |

| Discharge Amount: | 33,600 GAL |
|----------------------|--|
| Cause: | LACK OF SYSTEM CAPACITY HEAVY RAIN. |
| Clean Up: | WO#352840 |
| Control Zone: | TEMPORARY DISCHARGE SIGNS, AND BARRICADE PLACED AROUND THE IMPACTED AREA. |
| Impact: | MANHOLE DISCHARGING. |
| Repair: | LOCATION INCLUDED IN THE IOAP. |
| Public Notification: | PUBLIC NOTIFIED BY TEMP SIGN AT DISCHARGE SITE AND PERMANENT OVERFLOW ADVISORY SIGNS POSTED ALONG THE CREEK TO AVOID CONTACT WITH DISCHARGED CONTENT. |

| Notifications: | | | |
|-----------------|--------|--|---|
| 3/12/21 1:00 PM | DISNOT | EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV | |
| 3/12/21 1:00 PM | DISSNO | WAITING TO COMPLETE THE DISCHARGE INFORMATION | Τ |



| KPDES # | Facility Water Qu ID | | Water Quality Treat | ement Center | Receiving Stre | eam of Treatment Center | Region |
|--|--------------------------------------|--------------------------------|---|---------------------|--|-------------------------|---|
| KY0022411 | | | | | | | NA |
| Facility Type | Facility ID | | Facility Address | If Pump Station, Na | ne of Pump Station: | Receiving Stream | Discharge to |
| SMHSewer Manhole | 47583 | 202 OXMOOR LN | | | | MIDDLE FORK BEARGRASS | STREAM |
| Activity Code / Description : DISREV: RAIN EVENT DISCHARGE | <u>WO #</u> <u>Ref No</u> 3352660 | <u>Initiated</u> 03/12/2021 | Initiated By Assigned To DAVIS BROWNMITCHELL | | Event DateProblem02/06/2008LACK OFSYSTEM | | mpleted <u>Condition</u> 13/21 10:16 MAIN |

| Discharge Amount: | 288,000 GAL |
|----------------------|--|
| Cause: | LACK OF SYSTEM CAPACITY HEAVY RAIN. |
| Clean Up: | WO#3352891 |
| Control Zone: | PLACED BARRICADES & TEMP SIGNS AROUND THE IMPACTED. |
| Impact: | MANHOLE DISCHARGING. |
| Repair: | LOCATION INCLUDED IN IOAP. |
| Public Notification: | PUBLIC NOTIFIED BY TEMP SIGN AT DISCHARGE SITE AND PERMANENT OVERFLOW ADVISORY SIGNS POSTED ALONG THE CREEK TO AVOID CONTACT WITH DISCHARGED CONTENT. |

| Notifications: | | | |
|-----------------|--------|--|--|
| 3/12/21 1:00 PM | DISNOT | EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV | |
| 3/12/21 1:00 PM | DISSNO | WAITING TO COMPLETE THE DISCHARGE INFORMATION | |



| KPDES # | Facility ID | | Water C | Quality Treat | tement Center | Rece | iving Strear | n of Treatment Cent | er Region |
|--|-------------------------------|--------------------------------|------------------------|-----------------------|---|---------------------------------|------------------------------|---|---|
| KY0022411 | MSD0278 | | MORRIS | FORMAN | | | | | NA |
| Facility Type SMHSewer Manhole | Facility ID CSO020 | | Facility Addr | | If Pump Station, N | lame of Pump \$ | Station: | Receiving Stream OHIO RIVER | Discharge to STREAM |
| Activity Code / Description : DISDW: DRY WEATHER DISCHARGE | <u>WO # Ref No</u> 3359754 | <u>Initiated</u> 03/21/2021 | Initiated By FRENCH | Assigned To FRENCH | Disch Status REPAIRED - ISSUE RESOLVED | <u>Event Date</u> 03/21/2021 | Power Power Outage (LC | Result UNAUTHORIZED G&E) DISCHARGE- WATERS | Completed Condition 03/21/21 03:21 PM |

| Discharge Amount: | 1,200,000 GAL |
|----------------------|--|
| Cause: | FIRE AND POWER FAILURE AT TRANSFORMER. |
| Clean Up: | MSD PERSONNEL WILL CLEAN AND SANITIZE IMPACTED AREAS IDENTIFIED. |
| Control Zone: | NO CONTROL ZONE ESTABLISHED. |
| Impact: | NO VISUAL IMPACT, CSO 20 OVERFLOWS TO THE OHIO RIVER UNDERWATER. |
| Repair: | POWER TRANSFERRED TO GENERATOR WHILE REPAIRS ARE MADE. |
| Public Notification: | PERMANENT OVERFLOW WARNING SIGNS ARE POSTED AND THE PROJECT WIN WEBSITE DRY WEATHER NOTIFICATION WAS POSTED. |

| 3/22/21 1:00 AM | DISNOT | EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV | |
|-----------------|--------|--|--|
| 3/22/21 1:00 AM | DISSNO | WAITING TO COMPLETE THE DISCHARGE INFORMATION | |



| KPDES # | Facility Water Quality | | lity Treatement Center | Receiving Strea | m of Treatment Center | Region |
|--|-------------------------------|---|---|--|-----------------------|--|
| KY0022411 | | | | | | NA |
| Facility Type | Facility ID | Facility Address | If Pump Station, N | ame of Pump Station: | Receiving Stream | Discharge to |
| SMHSewer Manhole | IS021A-SI | 1201 OLD CAN | NONS LN | | MIDDLE FORK BEARGRASS | STREAM |
| Activity Code / Description : DISREV: RAIN EVENT DISCHARGE | WO # <u>Ref No</u> 3352604 | Initiated Initiated By A 03/11/2021 DAVIS BROWNM | ssigned To Disch Status ITCHELL DOCUMENTE D | Event Date 08/01/1969Problem LACK OF SYSTEM | | mpleted Condition 13/21 02:15 MAIN |

| Discharge Amount: | 3,100,000 GAL |
|----------------------|--|
| Cause: | LACK OF SYSTEM CAPACITY HEAVY RAIN. |
| Clean Up: | NO CLEANUP REQUIRED DISCHARGE PIPE IS SUBMERGED AND DISCHARGES DIRECTLY IN TO THE CREEK. |
| Control Zone: | CONTROL ZONE WAS NOT ESTABLISHE THE PIPE DISCHARGES DIRECTLY TO STREAM CREEK. |
| Impact: | NONE OBSERVED OVER FLOW NOTIFICATION RECEIVED FROM REMOTE DISCHARGE ALARM. |
| Repair: | LOCATION INCLUDED IN THE IOAP. |
| Public Notification: | PERMANENT SIGNS ALONG THE CREEK AVOID CONTACT WITH DISCHARGED CONTENT. |

| 3/12/21 1:00 PM | DISNOT | EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV | |
|-----------------|--------|--|---|
| 3/12/21 1:00 PM | DISSNO | WAITING TO COMPLETE THE DISCHARGE INFORMATION | Τ |



| KPDES # | S # Facility ID | | Water G | Water Quality Treatement Center | | | iving Stream | er Region | |
|--|--------------------------------------|-------------------------|--------------------------------|---------------------------------|---|--------------------------|---|---|---|
| KY0098540 MSD0289 | | CEDAR CREEK | | | | CEDAI | NA | | |
| Facility Type SLSSewer Lift Station | Facility ID MSD1185-PS | | Facility Addro | ess R MANOR WAY | If Pump Station, N ARBOR M | • | Station: | Receiving Stream CEDAR CREEK | Discharge to DITCH |
| Activity Code / Description : DISDW: DRY WEATHER DISCHARGE | <u>WO #</u> <u>Ref No</u> 3351847 | Initiated 03/08/2021 | <u>Initiated By</u> GRAY JR | <u>Assigned To</u> KOHR JR | Disch Status REPAIRED - ISSUE RESOLVED | Event Date 03/08/2021 | <u>Problem</u> MECHANICAL FAILURE | <u>Result</u> UNAUTHORIZED DISCHARGE- WATERS | Completed Condition 03/09/21 12:00 AM |

| Discharge Amount: | 300 GAL |
|----------------------|--|
| Cause: | FAILURE IN ARV. |
| Clean Up: | MSD PERSONNEL CLEANED AND SANITIZED THE IMPACTED AREA. |
| Control Zone: | PLACED TEMPORARY SIGNS AROUND THE IMPACTED AREA. |
| Impact: | SEWAGE/WATER DISCHARGING FROM MANHOLE. |
| Repair: | VALVE WAS SHUT OFF. |
| Public Notification: | GIVEN BY VOLUNTARY EMAIL NOTIFICATION SYSTEM. |

| Notifications: | otifications: | | | | | | | | |
|----------------|---------------|--|--|--|--|--|--|--|--|
| 3/9/21 1:00 PM | DISNOT | EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV | | | | | | | |



| KPDES # | Facility | Water Quality Trea | atement Center | Receiving Strea | Receiving Stream of Treatment Center | | | |
|--|-------------|--|----------------------|---|---|---|--|--|
| ID KY0022420 MSD0202 | | HITE CREEK | | н | | NA | | |
| Facility Type | Facility ID | Facility Address | If Pump Station, Nam | ne of Pump Station: | Receiving Stream | Discharge to | | |
| SLSSewer Lift Station | MSD1206-PS | 6100 MAYFAIR AVE | TRANSYLVAN | NIA BEACH | OHIO RIVER | GROUND | | |
| Activity Code / Description : DISREV: RAIN EVENT DISCHARGE | | ted Initiated By Assigned T 8/2021 CATALANO JR CATALANO JR | | Event Date D3/03/2021 ACK OF SYSTEM | <u>Result</u> UNAUTHORIZED DISCHARGE- | Completed Condition 03/09/21 01:30 PM | | |

| Discharge Amount: | 9,999 GAL |
|----------------------|--|
| Cause: | LACK OF SYSTEM CAPACITY. |
| Clean Up: | NO CLEAN UP PERFORMED – PIPE DISCHARGING UNDERWATER, DIRECTLY INTO STREAM. |
| Control Zone: | NO CONTROL ZONE WAS SET UP – PIPE DISCHARGING UNDERWATER, DIRECTLY INTO STREAM. |
| Impact: | NO IMPACT OBSERVED - FACILITY UNDER ELEVATED CREEK LEVEL. |
| Repair: | SITE FOUND DURING RAIN EVENT RECON - WILL BE MONITORED AND EVALUATED FOR REPAIR. |
| Public Notification: | SEND OUT VIA WEBSITE. |

Notifications:

| 3/3/21 1:00 PM | DISNOT | EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV | |
|----------------|--------|--|--|
| 3/3/21 1:00 PM | DISSNO | WAITING TO COMPLETE THE DISCHARGE INFORMATION | |

Total Facilities Printed: 17

Total Work Orders Printed: 21

| Eff Inf | | | | | | |
|--|--|--|--|--|--|--|
| | Eff | Eff | Eff | Inf | INF | Inf |
| 01-Mar-21 03:00:00 18.54227 10.80839 | 13-Mar-21 23:00:00 13.6234 | 14-Mar-21 23:00:00 11.01 | 15-Mar-21 23:00:00 20.45 | 13-Mar-21 23:00:00 10.14574 | 14-Mar-21 23:00:00 8.050845 | 15-Mar-21 23:00:00 15.67154 |
| 02-Mar-21 03:00:00 19.32085 12.37667 | 13-Mar-21 23:01:00 13.63416 | 14-Mar-21 23:01:00 11.02 | 15-Mar-21 23:01:00 20.46 | 13-Mar-21 23:01:00 10.15283 | 14-Mar-21 23:01:00 8.056325 | 15-Mar-21 23:01:00 15.6787 |
| 03-Mar-21 03:00:00 14.19387 10.80272 04-Mar-21 03:00:00 12.5565 9.612927 | 13-Mar-21 23:02:00 13.64495 13-Mar-21 23:03:00 13.6557 | 14-Mar-21 23:02:00 11.02 14-Mar-21 23:03:00 11.03 | 15-Mar-21 23:02:00 20.47 | 13-Mar-21 23:02:00 10.15996 | 14-Mar-21 23:02:00 8.061883 | 15-Mar-21 23:02:00 15.68593 |
| 05-Mar-21 03:00:00 12:5565 9:612927 | 13-Mar-21 23:05:00 13:65643 | 14-Mar-21 23:03:00 11.03 14-Mar-21 23:04:00 11.04 | 15-Mar-21 23:03:00 20.48 15-Mar-21 23:04:00 20.49 | 13-Mar-21 23:03:00 10.1671 13-Mar-21 23:04:00 10.17414 | 14-Mar-21 23:03:00 8.067554 14-Mar-21 23:04:00 8.073322 | 15-Mar-21 23:03:00 15.69318 |
| 06-Mar-21 03:00:00 7.963579 6.616784 | 13-Mar-21 23:05:00 13.67714 | 14-Mar-21 23:05:00 11.05 | 15-Mar-21 23:05:00 20:50 | 13-Mar-21 23:05:00 10.18123 | 14-Mar-21 23:04:00 8:073322 | 15-Mar-21 23:04:00 15.70031 15-Mar-21 23:05:00 15.70754 |
| 07-Mar-21 03:00:00 7.37074 6.103331 | 13-Mar-21 23:06:00 13.68781 | 14-Mar-21 23:06:00 11.05 | 15-Mar-21 23:06:00 20.51 | 13-Mar-21 23:06:00 10.18123 | 14-Mar-21 23:06:00 8.085078 | 15-Mar-21 23:06:00 15.71488 |
| 08-Mar-21 03:00:00 6.933825 5.870749 | 13-Mar-21 23:07:00 13.69846 | 14-Mar-21 23:07:00 11.06 | 15-Mar-21 23:07:00 20.52 | 13-Mar-21 23:07:00 10.18844 | 14-Mar-21 23:07:00 8.091026 | 15-Mar-21 23:07:00 15.72226 |
| 09-Mar-21 03:00:00 6.398924 5.454178 | 13-Mar-21 23:08:00 13.70909 | 14-Mar-21 23:08:00 11.07 | 15-Mar-21 23:08:00 20.53 | 13-Mar-21 23:08:00 10.19566 | 14-Mar-21 23:08:00 8.096974 | 15-Mar-21 23:08:00 15.72961 |
| 10-Mar-21 03:00:00 6.242301 5.248763 11-Mar-21 03:00:00 6.21896 5.139044 | 13-Mar-21 23:09:00 13.71961 13-Mar-21 23:10:00 13.73009 | 14-Mar-21 23:09:00 11.07 14-Mar-21 23:10:00 11.08 | 15-Mar-21 23:09:00 20.54 15-Mar-21 23:10:00 20.55 | 13-Mar-21 23:09:00 10.20291 13-Mar-21 23:10:00 10.2102 | 14-Mar-21 23:09:00 8.102943 | 15-Mar-21 23:09:00 15.737 |
| 12-Mar-21 03:00:00 6.684551 5.509594 | 13-Mar-21 23:11:00 13.74055 | 14-Mar-21 23:11:00 11:09 | 15-Mar-21 23:10:00 20:55 | 13-Mar-21 23:10:00 10.2102 | 14-Mar-21 23:10:00 8.108917 14-Mar-21 23:11:00 8.114886 | 15-Mar-21 23:10:00 15.74437 15-Mar-21 23:11:00 15.75171 |
| 13-Mar-21 03:00:00 14.30772 15.41025 | 13-Mar-21 23:12:00 13.75096 | 14-Mar-21 23:12:00 11.09 | 15-Mar-21 23:12:00 20.57 | 13-Mar-21 23:12:00 10.22458 | 14-Mar-21 23:12:00 8.120834 | 15-Mar-21 23:12:00 15:75903 |
| 14-Mar-21 03:00:00 14.18432 10.55571 | 13-Mar-21 23:13:00 13.76133 | 14-Mar-21 23:13:00 11.10 | 15-Mar-21 23:13:00 20.58 | 13-Mar-21 23:13:00 10.23173 | 14-Mar-21 23:13:00 8.126745 | 15-Mar-21 23:13:00 15.76631 |
| 15-Mar-21 03:00:00 14.18432 10.55571 | 13-Mar-21 23:14:00 13.77166 | 14-Mar-21 23:14:00 11.11 | 15-Mar-21 23:14:00 20.59 | 13-Mar-21 23:14:00 10.23885 | 14-Mar-21 23:14:00 8.132622 | 15-Mar-21 23:14:00 15.77358 |
| 16-Mar-21 03:00:00 20.9567 16.07918 17-Mar-21 03:00:00 9.594296 7.790466 | 13-Mar-21 23:15:00 13.78189 13-Mar-21 23:16:00 13.79196 | 14-Mar-21 23:15:00 11.11 14-Mar-21 23:16:00 11.12 | 15-Mar-21 23:15:00 20.60 15-Mar-21 23:16:00 20.61 | 13-Mar-21 23:15:00 10.24597 | 14-Mar-21 23:15:00 8.138476 | 15-Mar-21 23:15:00 15.78083 |
| 18-Mar-21.03:00:00 8.82281 7.084662 | 13-Mar-21 23:17:00 13.8017 | 14-Mar-21 23:15:00 11:12 | 15-Mar-21 23:17:00 20.61 | 13-Mar-21 23:16:00 10.25308 13-Mar-21 23:17:00 10.26019 | 14-Mar-21 23:16:00 8.144331 14-Mar-21 23:17:00 8.150122 | 15-Mar-21 23:16:00 15.78805 15-Mar-21 23:17:00 15.79525 |
| 19-Mar-21 03:00:00 10.83402 8.667173 | 13-Mar-21 23:18:00 13.81121 | 14-Mar-21 23:18:00 11.13 | 15-Mar-21 23:18:00 20.62 | 13-Mar-21 23:18:00 10.26731 | 14-Mar-21 23:18:00 8.155805 | 15-Mar-21 23:17:00 15:79525 15-Mar-21 23:18:00 15:80248 |
| 20-Mar-21.03:00:00 9.712234 7.663799 | 13-Mar-21 23:19:00 13.82054 | 14-Mar-21 23:19:00 11.14 | 15-Mar-21 23:19:00 20.63 | 13-Mar-21 23:19:00 10.27445 | 14-Mar-21 23:19:00 8.161515 | 15-Mar-21 23:19:00 15:80975 |
| 21-Mar-21 03:00:00 8.365803 6.840662 | 13-Mar-21 23:20:00 13.82977 | 14-Mar-21 23:20:00 11.15 | 15-Mar-21 23:20:00 20.64 | 13-Mar-21 23:20:00 10.28157 | 14-Mar-21 23:20:00 8.167098 | 15-Mar-21 23:20:00 15.81698 |
| 22-Mar-21 03:00:00 7.898284 6.492519 | 13-Mar-21 23:21:00 13.83903 | 14-Mar-21 23:21:00 11.16 | 15-Mar-21 23:21:00 20.65 | 13-Mar-21 23:21:00 10.28868 | 14-Mar-21 23:21:00 8.172665 | 15-Mar-21 23:21:00 15.81698 |
| 23-Mar-21 03:00:00 8.078534 5.959146 24-Mar-21 03:00:00 7.085869 5.647923 | 13-Mar-21 23:22:00 13.84827 13-Mar-21 23:23:00 13.85746 | 14-Mar-21 23:22:00 11.16 14-Mar-21 23:23:00 11.17 | 15-Mar-21 23:22:00 20.66 15-Mar-21 23:23:00 20.67 | 13-Mar-21 23:22:00 10.29582 13-Mar-21 23:23:00 10.30304 | 14-Mar-21 23:22:00 8.178187 | 15-Mar-21 23:22:00 15.82416 |
| 25-Mar-21 03:00:00 6.676978 5.502961 | 13-Mar-21 23:24:00 13.86666 | 14-Mar-21 23:24:00 11.18 | 15-Mar-21 23:23:00 20:07 | 13-Mar-21 23:23:00 10:30304 | 14-Mar-21 23:23:00 8.183691 14-Mar-21 23:24:00 8.189189 | 15-Mar-21 23:23:00 15.83135 15-Mar-21 23:24:00 15.83854 |
| 26-Mar-21 03:00:00 7.862035 6.175265 | 13-Mar-21 23:25:00 13.87584 | 14-Mar-21 23:25:00 11.19 | 15-Mar-21 23:25:00 20.68 | 13-Mar-21 23:25:00 10.31749 | 14-Mar-21 23:25:00 8.19468 | 15-Mar-21 23:25:00 15:84573 |
| 27-Mar-21 03:00:00 8.446972 6.870643 | 13-Mar-21 23:26:00 13.88503 | 14-Mar-21 23:26:00 11.19 | 15-Mar-21 23:26:00 20.69 | 13-Mar-21 23:26:00 10.32473 | 14-Mar-21 23:26:00 8.200157 | 15-Mar-21 23:26:00 15.85292 |
| 28-Mar-21 03:00:00 7.463283 6.049104 | 13-Mar-21 23:27:00 13.89424 | 14-Mar-21 23:27:00 11.20 | 15-Mar-21 23:27:00 20.70 | 13-Mar-21 23:27:00 10.33199 | 14-Mar-21 23:27:00 8.205598 | 15-Mar-21 23:27:00 15.86006 |
| 29-Mar-21 03:00:00 7.623183 6.240134 30-Mar-21 03:00:00 6.813203 5.694444 | 13-Mar-21 23:28:00 13.90353 13-Mar-21 23:29:00 13.91286 | 14-Mar-21 23:28:00 11.21 14-Mar-21 23:29:00 11.21 | 15-Mar-21 23:28:00 20.71 15-Mar-21 23:29:00 20.72 | 13-Mar-21 23:28:00 10.33924 | 14-Mar-21 23:28:00 8.210995 | 15-Mar-21 23:28:00 15.86721 |
| 31-Mar-21 03:00:00 6.651198 5.434593 | 13-Mar-21 23:25:00 13:51285 | 14-Mar-21 23:25:00 11.21 | 15-Mar-21 23:30:00 20.72 | 13-Mar-21 23:29:00 10.34648 13-Mar-21 23:30:00 10.3537 | 14-Mar-21 23:29:00 8.21635 14-Mar-21 23:30:00 8.221561 | 15-Mar-21 23:29:00 15.87438 15-Mar-21 23:30:00 15.88155 |
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| | 13-Mar-21 23:33:00 13.95041 | 14-Mar-21 23:33:00 11.24 | 15-Mar-21 23:33:00 20.75 | 13-Mar-21 23:33:00 10.37513 | 14-Mar-21 23:33:00 8.237143 | 15-Mar-21 23:33:00 15.90294 |
| | 13-Mar-21 23:34:00 13.95976 13-Mar-21 23:35:00 13.96907 | 14-Mar-21 23:34:00 11.25 14-Mar-21 23:35:00 11.25 | 15-Mar-21 23:34:00 20.76 | 13-Mar-21 23:34:00 10.38225 | 14-Mar-21 23:34:00 8.24241 | 15-Mar-21 23:34:00 15.91009 |
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| | 13-Mar-21 23:39:00 14.00633 | 14-Mar-21 23:39:00 11.28 | 15-Mar-21 23:39:00 20.79 | 13-Mar-21 23:39:00 10.41827 | 14-Mar-21 23:39:00 8.269558 | 15-Mar-21 23:39:00 15.94534 |
| | 13-Mar-21 23:40:00 14.01564 13-Mar-21 23:41:00 14.01564 | 14-Mar-21 23:40:00 11.29 14-Mar-21 23:41:00 11.29 | 15-Mar-21 23:40:00 20.80 | 13-Mar-21 23:40:00 10.42549 | 14-Mar-21 23:40:00 8.275054 | 15-Mar-21 23:40:00 15.95232 |
| | 13-Mar-21 23:42:00 14.01384 | 14-Mar-21 23:41:00 11:29 14-Mar-21 23:42:00 11:30 | 15-Mar-21 23:41:00 20.80 15-Mar-21 23:42:00 20.81 | 13-Mar-21 23:41:00 10.43268 13-Mar-21 23:42:00 10.43972 | 14-Mar-21 23:41:00 8.280568 14-Mar-21 23:42:00 8.286076 | 15-Mar-21 23:41:00 15.9593 |
| | 13-Mar-21 23:43:00 14.03436 | 14-Mar-21 23:43:00 11.31 | 15-Mar-21 23:43:00 20.82 | 13-Mar-21 23:42:00 10:45572 | 14-Mar-21 23:42:00 8.286076 14-Mar-21 23:43:00 8.291527 | 15-Mar-21 23:42:00 15.96626 15-Mar-21 23:43:00 15.97317 |
| | 13-Mar-21 23:44:00 14.04377 | 14-Mar-21 23:44:00 11.31 | 15-Mar-21 23:44:00 20.83 | 13-Mar-21 23:44:00 10.45366 | 14-Mar-21 23:44:00 8.296965 | 15-Mar-21 23:44:00 15.98001 |
| | 13-Mar-21 23:45:00 14.05317 | 14-Mar-21 23:45:00 11.32 | 15-Mar-21 23:45:00 20.84 | 13-Mar-21 23:45:00 10.46062 | 14-Mar-21 23:45:00 8.296965 | 15-Mar-21 23:45:00 15.98667 |
| | 13-Mar-21 23:45:00 14.0626 13-Mar-21 23:47:00 14.07202 | 14-Mar-21 23:46:00 11.33 14-Mar-21 23:47:00 11.33 | 15-Mar-21 23:46:00 20.84 | 13-Mar-21 23:46:00 10.46758 | 14-Mar-21 23:46:00 8.302408 | 15-Mar-21 23:46:00 15.99313 |
| | 13-Mar-21 23:47:00 14:07202 | 14-Mar-21 23:47:00 11:33 14-Mar-21 23:48:00 11:34 | 15-Mar-21 23:47:00 20.85 15-Mar-21 23:48:00 20.86 | 13-Mar-21 23:47:00 10.47454 13-Mar-21 23:48:00 10.48151 | 14-Mar-21 23:47:00 8.307874 14-Mar-21 23:48:00 8.313332 | 15-Mar-21 23:47:00 15.99946 |
| | 13-Mar-21 23:49:00 14.09081 | 14-Mar-21 23:49:00 11.35 | 15-Mar-21 23:49:00 20.87 | 13-Mar-21 23:49:00 10:48151 | 14-Mar-21 23:48:00 8.313332 14-Mar-21 23:49:00 8.318788 | 15-Mar-21 23;48:00 16.00566 15-Mar-21 23;49:00 16.01197 |
| | 13-Mar-21 23:50:00 14.10018 | 14-Mar-21 23:50:00 11.35 | 15-Mar-21 23:50:00 20.88 | 13-Mar-21 23;50:00 10.4955 | 14-Mar-21 23:50:00 8.324266 | 15-Mar-21 23:50:00 16.01796 |
| | 13-Mar-21 23:51:00 14.10951 | 14-Mar-21 23:51:00 11.36 | 15-Mar-21 23:51:00 20.89 | 13-Mar-21 23:51:00 10.50242 | 14-Mar-21 23:51:00 8.329833 | 15-Mar-21 23:51:00 16.02395 |
| | 13-Mar-21 23:52:00 14.11878 | 14-Mar-21 23:52:00 11.37 | 15-Mar-21 23:52:00 20.89 | 13-Mar-21 23:52:00 10.50242 | 14-Mar-21 23:52:00 8.335545 | 15-Mar-21 23:52:00 16.02995 |
| | 13-Mar-21 23:53:00 14.12807 13-Mar-21 23:54:00 14.13736 | 14-Mar-21 23:53:00 11.37 14-Mar-21 23:54:00 11.38 | 15-Mar-21 23:53:00 20.90 15-Mar-21 23:54:00 20.91 | 13-Mar-21 23:53:00 10.5093 13-Mar-21 23:54:00 10.51612 | 14-Mar-21 23:53:00 8.341309 | 15-Mar-21 23:53:00 16.03595 |
| | 13-Mar-21 23:55:00 14.14671 | 14-Mar-21 23:55:00 11.39 | 15-Mar-21 23:55:00 20.91 | 13-Mar-21 23:55:00 10.51612 13-Mar-21 23:55:00 10.52274 | 14-Mar-21 23:54:00 8.347122 14-Mar-21 23:55:00 8.352986 | 15-Mar-21 23:54:00 16.04199 15-Mar-21 23:55:00 16.04809 |
| | 13-Mar-21 23:56:00 24.1561 | 14-Mar-21 23:56:00 11.40 | 15-Mar-21 23:56:00 20.93 | 13-Mar-21 23:56:00 10.5293 | 14-Mar-21 23:56:00 8.358867 | 15-Mar-21 23:56:00 16:04805 |
| | 13-Mar-21 23:57:00 14.1655 | 14-Mar-21 23:57:00 11,40 | 15-Mar-21 23:57:00 20.94 | 13-Mar-21 23:57:00 10.53587 | 14-Mar-21 23:57:00 8.364729 | 15-Mar-21 23:57:00 16.06032 |
| | 13-Mar-21 23:58:00 14.17492 | 14-Mar-21 23:58:00 11.41 | 15-Mar-21 23:58:00 20.95 | 13-Mar-21 23:58:00 10,54249 | 14-Mar-21 23:58:00 8.370584 | 15-Mar-21 23:58:00 16.06658 |
| | 13-Mar-21 23:59:00 0 14-Mar-21 00:00:00 0.00941 | 14-Mar-21 23:59:00 11.42 15-Mar-21 00:00:00 11.42 | 15-Mar-21 23:59:00 0.00 16-Mar-21 00:00:00 0.01 | 13-Mar-21 23:59:00 10.54909 | 14-Mar-21 23:59:00 8.376451 | 15-Mar-21 23:59:00 16.07293 |
| | 14-Mar-21 00:01:00 0.018839 | 15-Mar-21 00:01:00 11:42 | 15-Mar-21 00:00:00 0.01 | 14-Mar-21 00:00:00 10.55571 14-Mar-21 00:01:00 0.006658 | 15-Mar-21 00:00:00 8.382477 15-Mar-21 00:01:00 8.388476 | 16-Mar-21 00:00:00 16:07918 16-Mar-21 00:01:00 0 |
| | 14-Mar-21 00:02:00 0.028238 | 15-Mar-21 00:02:00 11.44 | 16-Mar-21 30:02:00 0.03 | 14-Mar-21 00:02:00 0.013337 | 15-Mar-21 00:02:00 8.394466 | 16-Mar-21 00:02:00 0.00635 |
| | 14-Mar-21 00:03:00 0.037624 | 15-Mar-21 00:03:00 11.45 | 16-Mar-21 00:03:00 0.04 | 14-Mar-21 00:03:00 0.020077 | 15-Mar-21 00:03:00 8.400455 | 16-Mar-21 00:03:00 0.012709 |
| | 14-Mar-21 00:04:00 0.046984 | 15-Mar-21 00:04:00 11.45 | 16-Mar-21 00:04:00 0.04 | 14-Mar-21 00:04:00 0.026829 | 15-Mar-21 00:04:00 8.406384 | 16-Mar-21 00:04:00 0.01905 |
| | 14-Mar-21 00:05:00 0.056366 14-Mar-21 00:06:00 0.06579 | 15-Mar-21 00:05:00 11.46 15-Mar-21 00:06:00 11.47 | 16-Mar-21 00:05:00 0.05 | 14-Mar-21 00:05:00 0.03359 | 15-Mar-21 00:05:00 8.411982 | 16-Mar-21 00:05:00 0.025371 |
| | 14-Mar-21 00:06:00 0.06579 14-Mar-21 00:07:00 0.075232 | 15-Mar-21 00:06:00 11.47 15-Mar-21 00:07:00 11.48 | 16-Mar-21 00:06:00 0.06 16-Mar-21 00:07:00 0.07 | 14-Mar-21 00:06:00 0.040403 14-Mar-21 00:07:00 0.047301 | 15-Mar-21 00:06:00 8.41749 15-Mar-21 00:07:00 8.422953 | 16-Mar-21 00:06:00 0.031725 16-Mar-21 00:07:00 0.038065 |
| | 14-Mar-21 00:08:00 0.084659 | 15-Mar-21 00:08:00 11.48 | 16-Mar-21 00:08:00 0.08 | 14-Mar-21 00:08:00 0.054275 | 15-Mar-21 00:07:00 8.422953 15-Mar-21 00:08:00 8.428384 | 16-Mar-21 00:07:00 0.038065 16-Mar-21 00:08:00 0.04439 |
| | 14-Mar-21 00:09:00 0.094102 | 15-Mar-21 00:09:00 11.49 | 16-Mar-21 00:09:00 0.08 | 14-Mar-21 00:09:00 0.061244 | 15-Mar-21 00:09:00 8.433768 | 16-Mar-21 00:09:00 0.050696 |
| | | | | | | |

| 14-Mar-21 00:10:00 | 0.103497 | 15-Mar-21 00:10:00 | 11.50 | 16-Mar-21 00:10:00 | 0.09 | 14-Mar-21 00:10:00 | 0.068142 | 15-Mar-21 00:10:00 | 8.439084 | 16-Mar-21 00:10:00 | 0.057002 |
|--------------------|----------|--------------------|-------|--------------------|------|--------------------|----------|--------------------|----------|--------------------|----------|
| | 0.112922 | 15-Mar-21 00:11:00 | 11.50 | 16-Mar-21 00:11:00 | 0.10 | 14-Mar-21 00:11:00 | 0.07504 | 15-Mar-21 00:11:00 | 8.444328 | 16-Mar-21 00:11:00 | 0.063384 |
| 14-Mar-21 00:12:00 | 0.122356 | 15-Mar-21 00:12:00 | 11.51 | 16-Mar-21 00:12:00 | 0.10 | 14-Mar-21 00:12:00 | 0.082024 | 15-Mar-21 00:12:00 | 8.449502 | 16-Mar-21 00:12:00 | 0.069844 |
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| | 0.141253 | 15-Mar-21 00:14:00 | 11.52 | 16-Mar-21 00:14:00 | 0.12 | 14-Mar-21 00:14:00 | 0.096089 | 15-Mar-21 00:14:00 | 8.459752 | 16-Mar-21 00:14:00 | 0.082895 |
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| 14-Mar-21 00:19:00 | 0.188525 | 15-Mar-21 00:19:00 | 11.55 | 16-Mar-21 00:19:00 | 0.16 | 14-Mar-21 00:19:00 | 0.130873 | 15-Mar-21 00:19:00 | 8.48523 | 16-Mar-21 00:19:00 | 0.116003 |
| 14-Mar-21 00:20:00 | 0.197982 | 15-Mar-21 00:20:00 | 11.55 | 16-Mar-21 00:20:00 | 0.17 | 14-Mar-21 00:20:00 | 0.137779 | 15-Mar-21 00:20:00 | 8.490277 | 16-Mar-21 00:20:00 | 0.122582 |
| 14-Mar-21 00:21:00 | 0.207462 | 15-Mar-21 00:21:00 | 11.56 | 16-Mar-21 00:21:00 | 0.17 | 14-Mar-21 00:21:00 | 0.144677 | 15-Mar-21 00:21:00 | 8.495344 | 16-Mar-21 00:21:00 | 0.129177 |
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| 14-Mar-21 00:23:00 | 0.226443 | 15-Mar-21 00:23:00 | 11.58 | 16-Mar-21 00:23:00 | 0.19 | 14-Mar-21 00:23:00 | 0.158455 | 15-Mar-21 00:23:00 | 8.505411 | 16-Mar-21 00:23:00 | 0.14229 |
| 14-Mar-21 00:24:00 | 0.235964 | 15-Mar-21 00:24:00 | 11.58 | 16-Mar-21 00:24:00 | 0.19 | 14-Mar-21 00:24:00 | 0.165337 | 15-Mar-21 00:24:00 | 8.510469 | 16-Mar-21 00:24:00 | 0.148529 |
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| 14-Mar-21 00:29:00 | 0.275243 | 15-Mar-21 00:29:00 | 11.62 | 16-Mar-21 00:29:00 | 0.23 | 14-Mar-21 00:29:00 | 0.199497 | 15-Mar-21 00:29:00 | 8.530852 | 16-Mar-21 00:29:00 | 0.178578 |
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| 14-Mar-21 00:34:00 | 0.324734 | 15-Mar-21 00:34:00 | 11.65 | 16-Mar-21 00:34:00 | 0.28 | 14-Mar-21 00:34:00 | 0.232842 | 15-Mar-21 00:34:00 | 8.55623 | 16-Mar-21 00:34:00 | 0,210453 |
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| 14-Mar-21 00:36:00 | 0.344421 | 15-Mar-21 00:36:00 | 11.67 | 16-Mar-21 00:36:00 | 0.29 | 14-Mar-21 00:36:00 | 0.245877 | 15-Mar-21 00:36:00 | 8.566152 | 16-Mar-21 00:36:00 | 0.222709 |
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| 14-Mar-21 00:38:00 | 0.364143 | 15-Mar-21 00:38:00 | 11.68 | 16-Mar-21 00:38:00 | 0.31 | 14-Mar-21 00:38:00 | 0.258644 | 15-Mar-21 00:38:00 | 8.575928 | 16-Mar-21 00:38:00 | 0.228742 |
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| 14-Mar-21 00:42:00 | 0.403389 | 15-Mar-21 00:42:00 | 11.70 | 16-Mar-21 00:42:00 | 0.34 | 14-Mar-21 00:42:00 | 0.278116 | 15-Mar-21 00:42:00 | 8.595214 | 16-Mar-21 00:42:00 | 0.253106 |
| 14-Mar-21 00:43:00 | 0.413064 | 15-Mar-21 00:43:00 | 11.71 | 16-Mar-21 00:43:00 | 0.34 | 14-Mar-21 00:43:00 | 0.284699 | 15-Mar-21 00:43:00 | 8.600013 | 16-Mar-21 00:43:00 | 0.259261 |
| 14-Mar-21 00:44:00 | 0.422635 | 15-Mar-21 00:44:00 | 11.72 | 16-Mar-21 00:44:00 | 0.35 | 14-Mar-21 00:44:00 | 0.29132 | 15-Mar-21 00:44:00 | 8.604843 | 16-Mar-21 00:44:00 | 0.265464 |
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| 14-Mar-21 00:53:00 | 0.505013 | 15-Mar-21 00:53:00 | 11.77 | 16-Mar-21 00:53:00 | 0.42 | 14-Mar-21 00:53:00 | 0.350617 | 15-Mar-21 00:53:00 | 8.649212 | 16-Mar-21 00:53:00 | 0.321329 |
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| 14-Mar-21 00:58:00 | 0.550267 | 15-Mar-21 00:58:00 | 11.80 | 16-Mar-21 00:58:00 | 0.46 | 14-Mar-21 00:58:00 | 0.384329 | 15-Mar-21 00:58:00 | 8.67371 | 16-Mar-21 00:58:00 | 0.352763 |
| 14-Mar-21 00:59:00 | 0.559154 | 15-Mar-21 00:59:00 | 11.81 | 16-Mar-21 00:59:00 | 0.47 | 14-Mar-21 00:59:00 | 0.391201 | 15-Mar-21 00:59:00 | 8.678556 | 16-Mar-21 00:59:00 | 0.358872 |
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