MSD
Metropolitan Sewer District

*700 West Liberty Street*
*Louisville Kentucky 40203-1911*
*502-540-6000*
*www.msdlouky.org*

August 21, 2012

Cheryl Edwards
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. Edwards:

In accordance with the provisions of the KPDES Permit referenced above, the monthly operating report and the monthly Discharge Monitoring Report (DMR) for the reporting period July 1st to July 31st are enclosed. All permit requirements were met for the month of July, 2012.

Should you have any questions, please contact me at (502) 540-6793.

Sincerely,

Alex E. Novak

Alex E. Novak, P.E.
Director of Operations

paw

MFDMR0712.doc

Enclosures

cc: C. Roth, DOW-Louisville S. Cochran, ORSANCO

NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES)

# DISCHARGE MONITORING REPORT (DMR)

Form Approved.
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME MSD MORRIS FORMAN WQTC
ADDRESS C/O LOUISVILLE/JEFF CO MSD
4522 ALGONQUIN PKWY
LOUISVILLE, KY 40211-2497
FACILITY LOCATION MSD MORRIS FORM WQTC
LOUISVILLE, KY 40211

ATTN: ALEX E NOVAK, OPER DIR

| KY0022411 | 001 1 |
|---|---|
| PERMIT NUMBER | DISCHARGE NUMBER |

MAJOR
(SUBR LV)
F - FINAL JEFFE
MUNICIPAL DISCHARGE
EFFLUENT
*** NO DISCHARGE *** ☐

MONITORING PERIOD

| | YEAR | MONTH | DAY | | YEAR | MONTH | DAY |
|---|---|---|---|---|---|---|---|
| FROM | 12 | 07 | 01 | TO | 12 | 07 | 31 |

| Parameter | | QUANTITY OR LOADING | | | QUALITY OR CONCENTRATION | | | | NO EX | FREQUENCY OF ANALYSIS | SAMPLE TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | AVERAGE | MAXIMUM | UNITS | MINIMUM | AVERAGE | MAXIMUM | UNITS | | | |
| OXYGEN, DISSOLVED (DO) | SAMPLE MEASUREMENT | ***** | ***** | **** | 5.0 | ***** | ***** | (19) | 0 | 31/31 | GRAB |
| 00300 1 0 0 EFFLUENT GROSS VALUE | PERMIT REQUIREMENT | ***** | ***** | **** | 2.0 INST MIN | ***** | ***** | MG/L | | DAILY | GRAB |
| BOD, 5-DAY (20 DEG. C) | SAMPLE MEASUREMENT | 8,251 | 9,580 | (26) | ***** | 12 | 15 | (19) | 0 | 31/31 | COMPOS |
| 00310 E 0 0 SEC/BIOL PRCS CMPLT | PERMIT REQUIREMENT | REPORT MO AVG | REPORT MX WK AV | LBS/DY | ***** | 30 MO AVG | 45 MX WK AV | MG/L | | DAILY | COMPOS |
| BOD, 5-DAY (20 DEG. C) | SAMPLE MEASUREMENT | 219,580 | 245,925 | (26) | ***** | 299 | 318 | (19) | 0 | 31/31 | COMPOS |
| 00310 G 0 0 RAW SEW/INFLUENT | PERMIT REQUIREMENT | REPORT MO AVG | REPORT MX WK AV | LBS/DY | ***** | REPORT MO AVG | REPORT MX WK AV | MG/L | | DAILY | COMPOS |
| PH | SAMPLE MEASUREMENT | ***** | ***** | **** | 6.3 | ***** | 6.7 | (12) | 0 | 31/31 | GRAB |
| 00400 1 0 0 EFFLUENT GROSS VALUE | PERMIT REQUIREMENT | ***** | ***** | **** | 6.0 MINIMUM | ***** | 9.0 MAXIMUM | SU | | DAILY | GRAB |
| SOLIDS, TOTAL SUSPENDED | SAMPLE MEASUREMENT | 5,529 | 6,904 | (26) | ***** | 8 | 11 | (19) | 0 | 31/31 | COMPOS |
| 00530 E 0 0 SEC/BIOL PRCS CMPLT | PERMIT REQUIREMENT | REPORT MO AVG | REPORT MX WK AV | LBS/DY | ***** | 30 MO AVG | 45 MX WK AV | MG/L | | DAILY | COMPOS |
| SOLIDS, TOTAL SUSPENDED | SAMPLE MEASUREMENT | 281,259 | 330,437 | (26) | ***** | 378 | 395 | (19) | 0 | 31/31 | COMPOS |
| 00530 G 0 0 RAW SEW/INFLUENT | PERMIT REQUIREMENT | REPORT MO AVG | REPORT MX WK AV | LBS/DY | ***** | REPORT MO AVG | REPORT MX WK AV | MG/L | | DAILY | COMPOS |
| NITROGEN, AMMONIA TOTAL (AS N) | SAMPLE MEASUREMENT | 8,529 | 9,952 | (26) | ***** | 12.6 | 16.0 | (19) | 0 | 31/31 | COMPOS |
| 00610 E 0 0 SEC/BIOL PRCS CMPLT | PERMIT REQUIREMENT | REPORT MO AVG | REPORT MX WK AV | LBS/DY | ***** | 20 MO AVG | 30 MX WK AV | MG/L | | DAILY | COMPOS |

NAME/TITLE PRINCIPLE EXECUTIVE OFFICER

Greg C. Heitzman, P.E.
INTERIM EXECUTIVE DIRECTOR

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

| Telephone | | DATE |
|---|---|---|
| AREA | NUMBER | YEAR - MO - DAY |
| 502 | 540-6000 | 12-08-14 |

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
G - INFLUENT
E - SECONDARY EFFLUENT
1 - FINAL EFFLUENT

NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES)

# DISCHARGE MONITORING REPORT (DMR)

Form Approved.
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME MSD MORRIS FORMAN WQTC
ADDRESS C/O LOUISVILLE/JEFF CO MSD
4522 ALGONQUIN PKWY
LOUISVILLE, KY 40211-2497
FACILITY LOCATION MSD MORRIS FORM WQTC
LOUISVILLE, KY 40211

ATTN: ALEX E NOVAK, OPER DIR

| KY0022411 | 001 1 |
|---|---|
| PERMIT NUMBER | DISCHARGE NUMBER |

MONITORING PERIOD

| | YEAR | MONTH | DAY | | YEAR | MONTH | DAY |
|---|---|---|---|---|---|---|---|
| FROM | 12 | 07 | 01 | TO | 12 | 07 | 31 |

MAJOR
(SUBR LV)
F - FINAL JEFFE
MUNICIPAL DISCHARGE
EFFLUENT
*** NO DISCHARGE *** ☐

| Parameter | | QUANTITY OR LOADING | | | QUALITY OR CONCENTRATION | | | | NO EX | FREQUENCY OF ANALYSIS | SAMPLE TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | AVERAGE | MAXIMUM | UNITS | MINIMUM | AVERAGE | MAXIMUM | UNITS | | | |
| NITROGEN, AMMONIA TOTAL (AS N) | SAMPLE MEASUREMENT | 8833 | 9483 | ( 26 ) | ***** | 13.2 | 14.7 | ( 19 ) | 0 | 31/31 | COMPOS |
| 00610 G 0 0 RAW SEW/INFLUENT | PERMIT REQUIREMENT | REPORT MO AVG | REPORT MX WK AV | LBS/DY | ***** | REPORT MO AVG | REPORT MX WK AV | MG/L | | DAILY | COMPOS |
| FLOW, IN CONDUIT OR THRU TREATMENT PLANT | SAMPLE MEASUREMENT | 83.0 | 280.1 | ( 03 ) | ***** | ***** | ***** | **** | 0 | 31/31 | CONTIN |
| 50050 E 0 0 SEC/BIOL PRCS CMPLT | PERMIT REQUIREMENT | REPORT MO AVG | REPORT DAILY MX | MGD | ***** | ***** | ***** | **** | | CONTIN UOUS | CONTIN |
| CHLORINE, TOTAL RESIDUAL | SAMPLE MEASUREMENT | ***** | ***** | **** | ***** | ***** | 0.010 | ( 19 ) | 0 | 31/31 | GRAB |
| 50060 1 0 0 EFFLUENT GROSS VALUE | PERMIT REQUIREMENT | ***** | ***** | **** | ***** | ***** | 0.019 DAILY MX | MG/L | | DAILY | GRAB |
| COLIFORM, FECAL GENERAL | SAMPLE MEASUREMENT | ***** | ***** | **** | ***** | 40 | 75 | ( 13 ) | 0 | 31/31 | GRAB |
| 74055 1 1 0 EFFLUENT GROSS VALUE | PERMIT REQUIREMENT | ***** | ***** | **** | ***** | 200 30DA GEO | 400 7 DA GEO | #/ 100ML | | DAILY | GRAB |
| BOD, 5-DAY PERCENT REMOVAL | SAMPLE MEASUREMENT | ***** | ***** | **** | 96 | ***** | ***** | ( 23 ) | 0 | ONCE/ MONTH | CALCTD |
| 81010 K 0 0 PERCENT REMOVAL | PERMIT REQUIREMENT | ***** | ***** | **** | 85 MO MIN | ***** | ***** | PER-CENT | | ONCE/ MONTH | CALCTD |
| SOLIDS, SUSPENDED PERCENT REMOVAL | SAMPLE MEASUREMENT | ***** | ***** | **** | 98 | ***** | ***** | ( 23 ) | 0 | ONCE/ MONTH | CALCTD |
| 81011 K 0 0 PERCENT REMOVAL | PERMIT REQUIREMENT | ***** | ***** | **** | 85 MO MIN | ***** | ***** | PER-CENT | | ONCE/ MONTH | CALCTD |
| | SAMPLE MEASUREMENT | | | | | | | | | | |
| | PERMIT REQUIREMENT | | | | | | | | | | |

NAME/TITLE PRINCIPLE EXECUTIVE OFFICER

Greg C. Heitzman, P.E.
INTERIM EXECUTIVE DIRECTOR

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

| Telephone | | DATE |
|---|---|---|
| AREA | NUMBER | YEAR - MO - DAY |
| 502 | 540-6000 | 12-08-14 |

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
G - INFLUENT
E - SECONDARY EFFLUENT
F - SECONDARY BYPASS AFTER PRIMARY TREATMENT.

NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES)

# DISCHARGE MONITORING REPORT (DMR)

Form Approved.
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS (Include Facility Name/Address if Different)

NAME MSD MORRIS FORMAN WQTC
ADDRESS C/O LOUISVILLE/JEFF CO MSD
4522 ALGONQUIN PKWY
LOUISVILLE, KY 40211-2497
FACILITY LOCATION MSD MORRIS FORM WQTC
LOUISVILLE, KY 40211

ATTN: ALEX E NOVAK, OPER DIR

| KY0022411 | 001 B |
|---|---|
| PERMIT NUMBER | DISCHARGE NUMBER |

MAJOR
(SUBR LV)
F - FINAL JEFFE
SECONDARY BYPASS
EFFLUENT
*** NO DISCHARGE *** ☐

| MONITORING PERIOD | YEAR | MONTH | DAY | | YEAR | MONTH | DAY |
|---|---|---|---|---|---|---|---|
| FROM | 12 | 07 | 01 | TO | 12 | 07 | 31 |

| Parameter | | QUANTITY OR LOADING AVERAGE | QUANTITY OR LOADING MAXIMUM | QUANTITY OR LOADING UNITS | QUALITY OR CONCENTRATION MINIMUM | QUALITY OR CONCENTRATION AVERAGE | QUALITY OR CONCENTRATION MAXIMUM | QUALITY OR CONCENTRATION UNITS | NO EX | FREQUENCY OF ANALYSIS | SAMPLE TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| BOD, 5-DAY (20 DEG. C) 00310 F 0 0 PRI/PRLM PRCS CMPLT | SAMPLE MEASUREMENT | ***** | ***** | **** | ***** | 164 | 203 | ( 19 ) | 0 | 15/31 | COMPOS |
| | PERMIT REQUIREMENT | ***** | ***** | **** | ***** | REPORT MO AVG | REPORT MX WK AV | MG/L | | WHEN DISCHG | COMPOS |
| BOD, 5-DAY (20 DEG. C) 00310 1 0 0 EFFLUENT GROSS VALUE | SAMPLE MEASUREMENT | ***** | ***** | **** | ***** | 16 | 21 | ( 19 ) | 0 | 15/31 | COMPOS |
| | PERMIT REQUIREMENT | ***** | ***** | **** | ***** | REPORT MO AVG | REPORT MX WK AV | MG/L | | WHEN DISCHG | COMPOS |
| SOLIDS, TOTAL SUSPENDED 00530 F 0 0 PRI/PRLM PRCS CMPLT | SAMPLE MEASUREMENT | ***** | ***** | **** | ***** | 124 | 137 | ( 19 ) | 0 | 15/31 | COMPOS |
| | PERMIT REQUIREMENT | ***** | ***** | **** | ***** | REPORT MO AVG | REPORT MX WK AV | MG/L | | WHEN DISCHG | COMPOS |
| SOLIDS, TOTAL SUSPENDED 00530 1 0 0 EFFLUENT GROSS VALUE | SAMPLE MEASUREMENT | ***** | ***** | **** | ***** | 17 | 22 | ( 19 ) | 0 | 15/31 | COMPOS |
| | PERMIT REQUIREMENT | ***** | ***** | **** | ***** | REPORT MO AVG | REPORT MX WK AV | MG/L | | WHEN DISCHG | COMPOS |
| NITROGEN, AMMONIA TOTAL (AS N) 00610 F 0 0 PRI/PRLM PRCS CMPLT | SAMPLE MEASUREMENT | ***** | ***** | **** | ***** | 14.5 | 18.0 | ( 19 ) | 0 | 15/31 | COMPOS |
| | PERMIT REQUIREMENT | ***** | ***** | **** | ***** | REPORT MO AVG | REPORT MX WK AV | MG/L | | WHEN DISCHG | COMPOS |
| NITROGEN, AMMONIA TOTAL (AS N) 00610 1 0 0 EFFLUENT GROSS VALUE | SAMPLE MEASUREMENT | ***** | ***** | **** | ***** | 12.39 | 16.3 | ( 19 ) | 0 | 15/31 | COMPOS |
| | PERMIT REQUIREMENT | ***** | ***** | **** | ***** | REPORT MO AVG | REPORT MX WK AV | MG/L | | WHEN DISCHG | COMPOS |
| FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 F 0 0 PRI/PRLM PRCS CMPLT | SAMPLE MEASUREMENT | 15.20 | 22.13 | ( 03 ) | ***** | ***** | ***** | **** | 0 | 15/31 | CONTIN |
| | PERMIT REQUIREMENT | REPORT MO AVG | REPORT MX WK AV | MGD | ***** | ***** | ***** | **** | | WHEN DISCHG | CONTIN |

NAME/TITLE PRINCIPLE EXECUTIVE OFFICER

Greg C. Heitzman, P.E.
INTERIM EXECUTIVE DIRECTOR

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

| Telephone | | DATE |
|---|---|---|
| AREA | NUMBER | YEAR - MO - DAY |
| 502 | 540-6000 | 12-08-14 |

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
MONITORING DURING PERIODS OF SECONDARY BYPASS IN ADDITION TO REGULAR MONITORING.
1 - FINAL EFFLUENT
F - SECONDARY BYPASS AFTER PRIMARY TREATMENT.

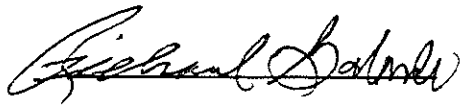
MORRIS FORMAN WATER QUALITY TREATMENT CENTER JEFFERSON COUNTY, KENTUCKY MONTH OF July 2012
KPDES PERMIT NO. KY0022411 PLANT CAPACITY - 120 MGD RECEIVING STREAM-OHIO RIVER

| | WASTEWATER FLOWS (Million Gallons) | | | TEMP (DEGF) | | pH | | SETS (M/L) | | TSS (mg/L) | | TS (mg/L) | | D.O. (mg/L) | 5-DAY BOD (mg/L) | | | RETURN SLUDGE | | | AERATION BASIN | | | | | ACTIVE | | CHLORINATION | | | FINAL EFFLUENT | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DATE | Final Effluent | Sec. Effluent | Bypass | raw | final | raw | final | raw | final | raw | final | raw | final | final | raw | prim. final | final | FLOW MG | TSS g/L | TVSS g/L | D.O mg/L | MLSS g/L | MLVSS g/L | SET | SVI | Sludge Wasted MG | Primary Sludge MG | Chlorine Dosage KLBS | Resid mg/L | Fecal Coliform #/100 ml | NH3-N mg/L | Pump. Hours |
| 7/1 | 77.6 | 68.0 | 9.6 | 79 | 79 | 7.3 | 6.5 | 5.5 | 0.1 | 228 | 18 | | | 6.7 | 170 | 145 | 20 | 21.8 | 9.2 | 7.7 | 16.8 | 2.9 | 2.5 | 211 | 71 | 0.74 | 0.37 | 1.42 | 0.010 | 26 | 20 | 0.00 |
| 7/2 | 95.6 | 86.2 | 7.4 | 77 | 77 | 7.1 | 6.5 | 19.0 | 0.1 | 488 | 23 | | | 7.5 | 334 | 121 | 27 | 23.6 | 10.7 | 8.6 | 17.4 | 2.4 | 2.0 | 198 | 80 | 0.73 | 0.27 | 2.62 | 0.010 | 160 | 14 | 0.00 |
| 7/3 | 75.7 | 75.7 | 0.0 | 79 | 79 | 7.4 | 6.5 | 11.0 | 0.1 | 340 | 15 | | | 6.0 | 208 | 144 | 19 | 24.1 | 9.3 | 7.4 | 15.5 | 2.7 | 2.2 | 196 | 71 | 0.82 | 0.28 | 2.41 | 0.010 | 13 | 17 | 0.00 |
| 7/4 | 70.1 | 70.1 | 0.0 | 80 | 80 | 7.3 | 6.5 | 13.5 | 0.1 | 244 | 16 | | | 7.4 | 238 | 118 | 14 | 23.8 | 9.6 | 7.6 | 17.7 | 2.7 | 2.1 | 202 | 76 | 0.80 | 0.34 | 1.74 | 0.010 | 270 | 18 | 0.00 |
| 7/5 | 98.6 | 89.2 | 9.4 | 81 | 81 | 7.2 | 6.6 | 13.5 | 0.1 | 464 | 17 | | | 8.9 | 258 | 110 | 17 | 23.7 | 9.3 | 7.3 | 18.4 | 2.3 | 1.8 | 166 | 72 | 0.76 | 0.34 | 2.58 | 0.010 | 184 | 14 | 0.00 |
| 7/6 | 70.4 | 70.4 | 0.0 | 80 | 80 | 7.3 | 6.6 | 22.5 | 0.1 | 588 | 16 | | | 7.3 | 413 | 150 | 13 | 23.7 | 8.6 | 6.7 | 17.2 | 2.5 | 1.9 | 176 | 69 | 0.78 | 0.36 | 2.37 | 0.010 | 80 | 19 | 0.00 |
| 7/7 | 66.8 | 66.8 | 0.0 | 80 | 80 | 7.4 | 6.6 | 18.0 | 0.1 | 412 | 13 | | | 7.7 | 277 | 121 | 10 | 23.8 | 8.0 | 6.2 | 14.3 | 2.3 | 1.8 | 156 | 66 | 0.78 | 0.35 | 1.75 | 0.010 | 60 | 18 | 0.00 |
| 7/8 | 103.0 | 85.2 | 17.8 | 79 | 79 | 7.2 | 6.6 | 16.0 | 0.1 | 224 | 25 | | | 8.0 | 187 | 85 | 17 | 23.5 | 8.6 | 6.7 | 16.3 | 2.1 | 1.8 | 159 | 76 | 0.76 | 0.35 | 2.98 | 0.010 | 40 | 13 | 0.00 |
| 7/9 | 73.1 | 73.1 | 0.0 | 77 | 77 | 7.5 | 6.5 | 22.0 | 0.1 | 412 | 13 | | | 7.8 | 328 | 116 | 7 | 23.4 | 8.6 | 6.7 | 19.6 | 2.2 | 1.7 | 164 | 74 | 0.77 | 0.33 | 2.73 | 0.010 | 56 | 11 | 0.00 |
| 7/10 | 69.5 | 69.5 | 0.0 | 78 | 78 | 7.5 | 6.6 | 15.0 | 0.1 | 404 | 13 | | | 7.2 | 284 | 120 | 8 | 23.6 | 7.1 | 5.4 | 18.5 | 2.4 | 1.9 | 183 | 77 | 0.79 | 0.32 | 1.93 | 0.010 | 10 | 15 | 0.00 |
| 7/11 | 70.8 | 70.8 | 0.0 | 79 | 79 | 7.3 | 6.6 | 13.0 | 0.1 | 328 | 12 | | | 11.3 | 339 | 147 | 9 | 23.1 | 7.6 | 5.9 | 18.7 | 2.2 | 1.8 | 153 | 68 | 0.80 | 0.26 | 2.23 | 0.010 | 36 | 17 | 0.00 |
| 7/12 | 87.3 | 84.8 | 2.5 | 79 | 79 | 7.1 | 6.6 | 14.0 | 0.1 | 398 | 14 | | | 7.6 | 362 | 218 | 14 | 23.6 | 7.6 | 6.1 | 16.2 | 2.2 | 1.8 | 157 | 69 | 0.71 | 0.34 | 2.85 | 0.010 | 76 | 18 | 0.00 |
| 7/13 | 75.4 | 75.4 | 0.0 | 80 | 80 | 7.2 | 6.5 | 20.0 | 0.1 | 442 | 10 | | | 9.2 | 422 | 215 | 9 | 23.1 | 5.1 | 4.2 | 15.9 | 3.4 | 2.8 | 173 | 54 | 0.64 | 0.32 | 2.61 | 0.010 | 40 | 16 | 0.00 |
| 7/14 | 141.6 | 95.5 | 46.1 | 79 | 79 | 6.9 | 6.6 | 9.0 | 0.1 | 334 | 28 | | | 6.2 | 254 | 167 | 22 | 22.2 | 9.1 | 7.3 | 15.0 | 2.6 | 2.1 | 188 | 70 | 0.65 | 0.36 | 3.87 | 0.010 | 6 | 18 | 0.00 |
| 7/15 | 91.4 | 89.4 | 2.0 | 78 | 78 | 7.0 | 6.4 | 13.0 | 0.1 | 348 | 7 | | | 9.1 | 312 | 180 | 7 | 23.5 | 10.9 | 8.5 | 18.0 | 2.4 | 1.9 | 209 | 83 | 0.88 | 0.25 | 3.54 | 0.010 | 30 | 10 | 0.00 |
| 7/16 | 77.6 | 77.6 | 0.0 | 78 | 78 | 7.2 | 6.4 | 12.0 | 0.1 | 416 | 9 | | | 7.6 | 290 | 161 | 6 | 22.9 | 9.4 | 7.4 | 17.0 | 2.6 | 2.0 | 191 | 73 | 1.04 | 0.27 | 1.47 | 0.010 | 20 | 14 | 0.00 |
| 7/17 | 78.8 | 78.8 | 0.0 | 81 | 81 | 7.0 | 6.5 | 13.5 | 0.1 | 528 | 11 | | | 6.2 | 368 | 209 | 9 | 22.4 | 8.9 | 7.2 | 15.9 | 2.6 | 2.2 | 166 | 65 | 0.92 | 0.36 | 1.56 | 0.010 | 213 | 15 | 0.00 |
| 7/18 | 107.1 | 90.7 | 16.4 | 80 | 80 | 6.9 | 6.5 | 10.0 | 0.1 | 266 | 17 | | | 6.8 | 310 | 240 | 15 | 23.2 | 8.9 | 7.2 | 15.4 | 2.6 | 2.1 | 180 | 70 | 0.81 | 0.36 | 2.57 | 0.010 | 34 | 14 | 0.00 |
| 7/19 | 128.6 | 101.5 | 27.1 | 79 | 79 | 7.0 | 6.3 | 12.0 | 0.1 | 592 | 19 | | | 6.3 | 279 | 174 | 15 | 22.8 | 9.9 | 7.9 | 18.5 | 2.7 | 2.2 | 183 | 70 | 0.70 | 0.34 | 3.12 | 0.010 | 21 | 11 | 0.00 |
| 7/20 | 165.0 | 127.8 | 37.2 | 79 | 79 | 7.5 | 6.3 | 7.5 | 0.1 | 192 | 20 | | | 7.2 | 154 | 92 | 17 | 24.2 | 11.5 | 8.9 | 18.5 | 3.2 | 2.5 | 233 | 75 | 0.82 | 0.39 | 4.35 | 0.010 | 300 | 8 | 0.00 |
| 7/21 | 87.5 | 86.7 | 0.8 | 78 | 78 | 7.4 | 6.7 | 17.0 | 0.1 | 404 | 9 | | | 7.8 | 251 | 120 | 8 | 24.1 | 10.1 | 7.7 | 18.4 | 3.0 | 2.2 | 232 | 78 | 1.03 | 0.29 | 3.99 | 0.010 | 9 | 12 | 0.00 |
| 7/22 | 71.6 | 71.6 | 0.0 | 79 | 79 | 7.3 | 6.5 | 12.0 | 0.1 | 292 | 8 | | | 9.2 | 202 | 95 | 6 | 23.7 | 8.3 | 6.3 | 19.9 | 2.6 | 2.0 | 181 | 70 | 0.96 | 0.21 | 1.37 | 0.010 | 78 | 9 | 0.00 |
| 7/23 | 77.8 | 77.8 | 0.0 | 78 | 78 | 7.3 | 6.7 | 19.5 | 0.1 | 400 | 8 | | | 9.0 | 290 | 136 | 7 | 23.1 | 7.3 | 5.7 | 20.0 | 2.4 | 1.9 | 167 | 71 | 0.81 | 0.23 | 1.47 | 0.010 | 4 | 13 | 0.00 |
| 7/24 | 95.1 | 84.6 | 10.5 | 81 | 81 | 7.0 | 6.5 | 14.5 | 0.1 | 336 | 16 | | | 7.5 | 302 | 195 | 15 | 23.4 | 7.0 | 5.6 | 19.3 | 2.9 | 2.3 | 170 | 66 | 0.82 | 0.29 | 2.20 | 0.010 | 15 | 13 | 0.00 |
| 7/25 | 91.1 | 86.3 | 4.8 | 81 | 81 | 6.7 | 6.3 | 18.0 | 0.1 | 460 | 14 | | | 5.3 | 386 | 236 | 15 | 24.0 | 9.3 | 7.2 | 17.1 | 2.5 | 2.0 | 183 | 73 | 0.84 | 0.31 | 2.95 | 0.010 | 164 | 8 | 0.00 |
| 7/26 | 81.8 | 81.6 | 0.0 | 81 | 81 | 6.9 | 6.4 | 25.0 | 0.1 | 464 | 8 | | | 7.6 | 496 | 266 | 8 | 24.4 | 10.0 | 7.9 | 14.7 | 3.2 | 2.5 | 236 | 74 | 0.96 | 0.39 | 2.70 | 0.010 | 29 | 14 | 0.00 |
| 7/27 | 113.2 | 99.2 | 14.0 | 82 | 82 | 6.9 | 6.4 | 14.0 | 0.1 | 460 | 18 | | | 5.0 | 362 | 236 | 15 | 24.8 | 11.4 | 9.4 | 12.8 | 3.5 | 2.9 | 244 | 71 | 1.10 | 0.42 | 3.19 | 0.010 | 10 | 8 | 0.00 |
| 7/28 | 130.0 | 108.0 | 22.0 | 77 | 77 | 7.1 | 6.3 | 8.0 | 0.1 | 256 | 16 | | | 7.5 | 185 | 143 | 11 | 24.8 | 13.0 | 10.5 | 14.6 | 3.1 | 2.5 | 246 | 79 | 1.16 | 0.31 | 3.80 | 0.010 | 1850 | 5 | 0.00 |
| 7/29 | 75.8 | 75.8 | 0.0 | 77 | 77 | 7.0 | 6.5 | 13.5 | 0.1 | 284 | 7 | | | 5.6 | 274 | 164 | 6 | 24.6 | 8.0 | 6.3 | 15.5 | 3.3 | 2.6 | 276 | 84 | 1.18 | 0.33 | 3.48 | 0.010 | 50 | 15 | 0.00 |
| 7/30 | 78.2 | 78.2 | 0.0 | 79 | 79 | 7.0 | 6.6 | 23.0 | 0.1 | 368 | 7 | | | 7.2 | 358 | 227 | 7 | 24.5 | 9.4 | 7.5 | 17.4 | 3.2 | 2.5 | 248 | 78 | 1.03 | 0.34 | 1.86 | 0.010 | 7 | 16 | 0.00 |
| 7/31 | 75.6 | 75.6 | 0.0 | 80 | 80 | 7.0 | 6.4 | 14.0 | 0.1 | 336 | 7 | | | 5.6 | 366 | 203 | 5 | 24.7 | 9.4 | 7.5 | 16.5 | 3.0 | 2.4 | 212 | 70 | 0.92 | 0.34 | 2.03 | 0.010 | 5 | 15 | 0.00 |
| Total | 2801.3 | 2573.7 | 227.6 | | | | | | | | | | | | | | | 732.1 | | | | | | | | 26.490 | 10.020 | | | | | 0.00 |
| Average | 90.4 | 83.0 | 7.3 | 79 | 79 | 7.2 | 6.5 | 14.8 | 0.1 | 378 | 14 | | | 7.4 | 299 | 163 | 12 | 23.6 | 9.1 | 7.2 | 17.0 | 2.7 | 2.2 | 195 | 72 | 0.85 | 0.32 | 2.57 | 0.010 | 40 | 14 | 0.00 |

SEWER CONNECTIONS 131039 TIMES 4 = 524158 SEWER POPULATION

IND. WASTER POPULATION EQ

| | |
|---|---|
| CUSTOMERS | 383 |
| FLOW | 336458 |
| BOD | 799934 |
| TSS | 833322 |

Authorized Agent  Certification No. 4663

MSD
Metropolitan Sewer District

**IMSAST0004**
**Overflow Report**
**Initiated Jul 01, 2012 12:00 AM thru Jul 31, 2012 11:59 PM**

**Report Selections: Treatment Plant: MSD0278 MORRIS FORMAN, Excluding PPI, CSO, Excluding LAT and SSL, Result: WUS, Act Code: DISDW, DISREV**

| KPDES # | Facility ID | Water Quality Treatement Center | Receiving Stream of Treatment Center | Region |
|---|---|---|---|---|
| KY0022411 | MSD0278 | MORRIS FORMAN | OHIO RIVER | WEST |

| Facility Type | Facility ID | Facility Address | If Pump Station, Name of Pump Station: | Receiving Stream | Discharge to |
|---|---|---|---|---|---|
| SMH Sewer Manhole | 104231 | 4119 LEE AVE | | CAMP TAYLOR DITCH | GROUND |

| Activity Code / Description | WO # | Initiated | Initiated By | Assigned To | Disch Status | Event Date | Problem | Result | Completed | Condition |
|---|---|---|---|---|---|---|---|---|---|---|
| DISREV: RAIN EVENT DISCHARGE | 1521944 | 07/14/12 02:35 PM | MITCHELL | GRIFFITH | DOCUMENTED | 10/23/07 | LACK OF SYSTEM CAPACITY | UNAUTHORIZED DISCHARGE-WATERS | 07/17/12 05:01 PM | |

***Spot Inspections:***

| | |
|---|---|
| Discharge Amount: | 6,300 GAL |
| Cause: | LACK OF SYSTEM CAPACITY-HEAVY RAIN |
| Clean Up: | DISLCN WO# 1522162 |
| Control Zone: | CAUTION TAPE AND TEMP SIGNS PLACED |
| Impact: | VERY LIGHT DEBRIS OBSERVED |
| Repair: | LOCATION INCLUDED IN THE IOAP |

***Notifications:***

| | | |
|---|---|---|
| 07/14/12 09:43 PM | DISPUB | PUBLIC NOTIFIED THROUGH DOOR HANGERS AND TEMP SIGNS TO AVOID CONTACT WITH DISCHARGE |
| 07/14/12 01:00 PM | DISNOT | Email notification of unauthorized discharge sent to eppc.ert@ky.gov, Sayre.Dennis@epamail.epa.gov and LisaA.Jeffries@ky.gov |
| 07/14/12 01:00 PM | DISSNO | Supplemental Email notification of unauthorized discharge has been sent to eppc.ert@ky.gov, Sayre.Dennis@epamail.epa.gov and LisaA.Jeffries@ky.gov |

Report Selections: Treatment Plant: MSD0278 MORRIS FORMAN, Excluding PPI, CSO, Excluding LAT and SSL, Result: WUS, Act Code: DISDW, DISREV

| KPDES # | Facility ID | Water Quality Treatement Center | Receiving Stream of Treatment Center | Region |
|---|---|---|---|---|
| KY0022411 (Cont'd) | MSD0278 | MORRIS FORMAN | OHIO RIVER | WEST |

| Activity Code / Description | WO # | Initiated | Initiated By | Assigned To | Disch Status | Event Date | Problem | Result | Completed | Condition |
|---|---|---|---|---|---|---|---|---|---|---|
| DISREV: RAIN EVENT DISCHARGE | 1524649 | 07/19/12 07:53 PM | DICKERSON | GRIFFITH | DOCUMENTED | 10/23/07 | LACK OF SYSTEM CAPACITY | UNAUTHORIZED DISCHARGE-WATERS | 07/19/12 09:30 PM | |

***Spot Inspections:***

| | |
|---|---|
| Discharge Amount: | 3,000 GAL |
| Cause: | LACK OF SYSTEM CAPACITY-HEAVY RAIN |
| Clean Up: | DISCLN WO# 1524615 |
| Control Zone: | NO MITIGATION SET UP |
| Impact: | MODERATE DEBRIS OBSERVED |
| Repair: | LOCATION INCLUDED IN THE IOAP |

***Notifications:***

| | | |
|---|---|---|
| 07/20/12 09:26 AM | DISPUB | PUBLIC NOTIFIED THROUGH PERMANENT SIGNS IN AREA TO AVOID CONTACT WITH DISCHARGE |
| 07/20/12 01:00 AM | DISNOT | Email notification of unauthorized discharge sent to eppc.ert@ky.gov, Sayre.Dennis@epamail.epa.gov and LisaA.Jeffries@ky.gov |

Report Selections: Treatment Plant: MSD0278 MORRIS FORMAN, Excluding PPI, CSO, Excluding LAT and SSL, Result: WUS, Act Code: DISDW, DISREV

| KPDES # | Facility ID | Water Quality Treatement Center | Receiving Stream of Treatment Center | Region |
|---|---|---|---|---|
| KY0022411 (Cont'd) | MSD0278 | MORRIS FORMAN | OHIO RIVER | WEST |

| Facility Type | Facility ID | Facility Address | If Pump Station, Name of Pump Station: | Receiving Stream | Discharge to |
|---|---|---|---|---|---|
| SMH Sewer Manhole | 13943 | 4119 LEE AVE | | SOUTH FORK BEARGRASS CREEK | GROUND |

| Activity Code / Description | WO # | Initiated | Initiated By | Assigned To | Disch Status | Event Date | Problem | Result | Completed | Condition |
|---|---|---|---|---|---|---|---|---|---|---|
| DISREV: RAIN EVENT DISCHARGE | 1521945 | 07/14/12 03:05 PM | MITCHELL | GRIFFITH | DOCUMENTED | 03/19/08 | LACK OF SYSTEM CAPACITY | UNAUTHORIZED DISCHARGE-WATERS | 07/17/12 05:02 PM | |

***Spot Inspections:***

| | |
|---|---|
| Discharge Amount: | 360 GAL |
| Cause: | LACK OF SYSTEM CAPACITY-HEAVY RAIN |
| Clean Up: | DISCLN WO# 1522165 |
| Control Zone: | CAUTION TAPE AND TEMP SIGNS PLACED |
| Impact: | LIGHT DEBRIS OBSERVED |
| Repair: | LOCATION INCLUDED IN THE IOAP |

***Notifications:***

| | | |
|---|---|---|
| 07/14/12 09:47 PM | DISPUB | PUBLIC NOTIFIED THROUGH DOOR HANGERS AND TEMP SIGNS TO AVOID CONTACT WITH DISCHARGE |
| 07/14/12 01:00 PM | DISNOT | Email notification of unauthorized discharge sent to eppc.ert@ky.gov, Sayre.Dennis@epamail.epa.gov and LisaA.Jeffries@ky.gov |
| 07/14/12 01:00 PM | DISSNO | Supplemental Email notification of unauthorized discharge has been sent to eppc.ert@ky.gov, Sayre.Dennis@epamail.epa.gov and LisaA.Jeffries@ky.gov |

Report Selections: Treatment Plant: MSD0278 MORRIS FORMAN, Excluding PPI, CSO, Excluding LAT and SSL, Result: WUS, Act Code: DISDW, DISREV

| KPDES # | Facility ID | Water Quality Treatement Center | Receiving Stream of Treatment Center | Region |
|---|---|---|---|---|
| KY0022411 (Cont'd) | MSD0278 | MORRIS FORMAN | OHIO RIVER | WEST |

| Facility Type | Facility ID | Facility Address | If Pump Station, Name of Pump Station: | Receiving Stream | Discharge to |
|---|---|---|---|---|---|
| SMH Sewer Manhole | 51594 | 1418 TREVILIAN WAY | | SOUTH FORK BEARGRASS CREEK | DITCH |

| Activity Code / Description | WO # | Initiated | Initiated By | Assigned To | Disch Status | Event Date | Problem | Result | Completed | Condition |
|---|---|---|---|---|---|---|---|---|---|---|
| DISREV: RAIN EVENT DISCHARGE | 1521947 | 07/14/12 02:58 PM | MITCHELL | GRIFFITH | DOCUMENTED | 09/12/06 | LACK OF SYSTEM CAPACITY | UNAUTHORIZED DISCHARGE-WATERS | 07/14/12 05:48 PM | |

***Spot Inspections:***

| | |
|---|---|
| Discharge Amount: | 2,700 GAL |
| Cause: | LACK OF SYSTEM CAPACITY-HEAVY RAIN |
| Clean Up: | DISCLN WO# 1522176 |
| Control Zone: | CAUTION TAPE AND TEMP SIGNS PLACED |
| Impact: | LIGHT DEBRIS OBSERVED |
| Repair: | LOCATION INCLUDED IN THE IOAP |

***Notifications:***

| | | |
|---|---|---|
| 07/14/12 09:54 PM | DISPUB | PUBLIC NOTIFIED THROUGH DOOR HANGERS AND TEMP SIGNS TO AVOID CONTACT WITH DISCHARGE |
| 07/14/12 01:00 PM | DISNOT | Email notification of unauthorized discharge sent to eppc.ert@ky.gov, Sayre.Dennis@epamail.epa.gov and LisaA.Jeffries@ky.gov |
| 07/14/12 01:00 PM | DISSNO | Supplemental Email notification of unauthorized discharge has been sent to eppc.ert@ky.gov, Sayre.Dennis@epamail.epa.gov and LisaA.Jeffries@ky.gov |

**Report Selections:** Treatment Plant: MSD0278 MORRIS FORMAN, Excluding PPI, CSO, Excluding LAT and SSL, Result: WUS, Act Code: DISDW, DISREV

| KPDES # | Facility ID | Water Quality Treatement Center | Receiving Stream of Treatment Center | Region |
|---|---|---|---|---|
| KY0022411 (Cont'd) | MSD0278 | MORRIS FORMAN | OHIO RIVER | WEST |

| Facility Type | Facility ID | Facility Address | If Pump Station, Name of Pump Station: | Receiving Stream | Discharge to |
|---|---|---|---|---|---|
| SMH Sewer Manhole | CSO020 | 147 BUCHANAN ST | | OHIO RIVER | STREAM |

| Activity Code / Description | WO # | Initiated | Initiated By | Assigned To | Disch Status | Event Date | Problem | Result | Completed | Condition |
|---|---|---|---|---|---|---|---|---|---|---|
| DISREV: RAIN EVENT DISCHARGE | 1527595 | 07/27/12 11:15 PM | THOMPSON | OPS FLOOD PS | REPAIRED - ISSUE RESOLVED | 07/28/12 | POWER OUTAGE (LG&E) | UNAUTHORIZED DISCHARGE-WATERS | 07/28/12 12:25 AM | |

***Spot Inspections:***

| | |
|---|---|
| Discharge Amount: | 1,700,000 GAL |
| Cause: | DURING RAIN EVENT LG&E POLE INSULATOR SHORTED AND CAUSED THE STARKEY PS TO LOOSE POWER. |
| Clean Up: | OVERFLOW OCCURED OVER CSO 020 AND THAT PIPE IS SUBMERGED IN THE OHIO RIVER. NO CLEANUP REQUIRED. |
| Control Zone: | NONE REQUIRED. PIPE IS SUBMERGED IN THE OHIO RIVER |
| Impact: | PIPE IS SUBMERGED IN THE OHIO RIVER |
| Repair: | LG&E ISOLATED THE STARKEY SERVICE FROM THE DAMAGED INSULATOR AND RESTORED POWER. |

***Notifications:***

| | | |
|---|---|---|
| 07/27/12 11:15 AM | DISPUB | public notified via permanent signs located at the CSO 020 outfall |
| 07/28/12 06:22 AM | DISPUB | Dischage published to the Project Win Overflow Advisory on the website. |
| 07/28/12 01:00 AM | DISNOT | Email notification of unauthorized discharge sent to eppc.ert@ky.gov, Sayre.Dennis@epamail.epa.gov and LisaA.Jeffries@ky.gov |

**Report Selections:** Treatment Plant: MSD0278 MORRIS FORMAN, Excluding PPI, CSO, Excluding LAT and SSL, Result: WUS, Act Code: DISDW, DISREV

| KPDES # | Facility ID | Water Quality Treatement Center | Receiving Stream of Treatment Center | Region |
|---|---|---|---|---|
| KY0022411 (Cont'd) | MSD0278 | MORRIS FORMAN | OHIO RIVER | WEST |

| Facility Type | Facility ID | Facility Address | If Pump Station, Name of Pump Station: | Receiving Stream | Discharge to |
|---|---|---|---|---|---|
| SSL Sewer Service Line | KK14815019 | 4108 LEE AVE | | CAMP TAYLOR DITCH | GROUND |

| Activity Code / Description | WO # | Initiated | Initiated By | Assigned To | Disch Status | Event Date | Problem | Result | Completed | Condition |
|---|---|---|---|---|---|---|---|---|---|---|
| DISREV: RAIN EVENT DISCHARGE | 1521946 | 07/14/12 03:09 PM | MITCHELL | GRIFFITH | DOCUMENTED | 07/29/09 | LACK OF SYSTEM CAPACITY | UNAUTHORIZED DISCHARGE-WATERS | 07/17/12 05:04 PM | |

***Spot Inspections:***

| | |
|---|---|
| Discharge Amount: | 90 GAL |
| Cause: | LACK OF SYSTEM CAPACITY-HEAVY RAIN |
| Clean Up: | DISCLN WO# 1522175 |
| Control Zone: | CAUTION TAPE AND TEMP SIGNS PLACED |
| Impact: | LIGHT DEBRIS OBSERVED |
| Repair: | LOCATION INCLUDED IN THE IOAP |

***Notifications:***

| | | |
|---|---|---|
| 07/14/12 09:50 PM | DISPUB | PUBLIC NOTIFIED THROUGH DOOR HANGERS AND TEMP SIGNS TO AVOID CONTACT WITH DISCHARGE |
| 07/14/12 01:00 PM | DISNOT | Email notification of unauthorized discharge sent to eppc.ert@ky.gov, Sayre.Dennis@epamail.epa.gov and LisaA.Jeffries@ky.gov |
| 07/14/12 01:00 PM | DISSNO | Supplemental Email notification of unauthorized discharge has been sent to eppc.ert@ky.gov, Sayre.Dennis@epamail.epa.gov and LisaA.Jeffries@ky.gov |

Report Selections: Treatment Plant: MSD0278 MORRIS FORMAN, Excluding PPI, CSO, Excluding LAT and SSL, Result: WUS, Act Code: DISDW, DISREV

| KPDES # | Facility ID | Water Quality Treatement Center | Receiving Stream of Treatment Center | Region |
|---|---|---|---|---|
| KY0022411 (Cont'd) | MSD0278 | MORRIS FORMAN | OHIO RIVER | WEST |

| Facility Type | Facility ID | Facility Address | If Pump Station, Name of Pump Station: | Receiving Stream | Discharge to |
|---|---|---|---|---|---|
| SLS Sewer Lift Station | MSD0022-PS | 1800 NIGHTINGALE RD | NIGHTINGALE | SOUTH FORK BEARGRASS CREEK | STREAM |

| Activity Code / Description | WO # | Initiated | Initiated By | Assigned To | Disch Status | Event Date | Problem | Result | Completed | Condition |
|---|---|---|---|---|---|---|---|---|---|---|
| DISREV: RAIN EVENT DISCHARGE | 1527591 | 07/27/12 08:30 PM | GREEN | OPS CSHIFT | REPAIRED - ISSUE RESOLVED | 07/27/12 | POWER OUTAGE (LG&E) | UNAUTHORIZED DISCHARGE-WATERS | 07/27/12 11:48 PM | |

***Spot Inspections:***

| | |
|---|---|
| Discharge Amount: | 79,200 GAL |
| Cause: | STORM/RAIN EVENT CAUSED POWER OUTAGE |
| Clean Up: | PIPE DISCHARGE SUBMERGED-NO CLEAN UP |
| Control Zone: | PIPE DISCHARGE SUBMERGED-NO CLEANUP |
| Impact: | NONE OBSERVED BY MSD PERSONNEL |
| Repair: | LG&E POWER RESTORED |

***Notifications:***

| | | |
|---|---|---|
| 07/27/12 10:28 PM | DISPUB | Permanent overflow advisory signs are posted along Beargrass Creek. |
| 07/27/12 01:00 PM | DISNOT | Email notification of unauthorized discharge sent to eppc.ert@ky.gov, Sayre.Dennis@epamail.epa.gov and LisaA.Jeffries@ky.gov |
| 07/27/12 01:00 PM | DISSNO | Supplemental Email notification of unauthorized discharge has been sent to eppc.ert@ky.gov, Sayre.Dennis@epamail.epa.gov and LisaA.Jeffries@ky.gov |

**Total Facilities Printed: 6**
**Total Work Orders Printed: 7**