# DMR Copy of Record

| | | | | | |
|---|---|---|---|---|---|
| ***Permit*** | | | | | |
| **Permit #:** | **MD0024694** | **Permittee:** | Patuxent MHC, LLC | **Facility:** | PATUXENT MHC, LLC |
| **Major:** | No | **Permittee Address:** | 2138 Espey Court. Suite 1<br>ANNE ARUNDEL COUNTY<br>Crofton, MD 21114 | **Facility Location:** | 5380 SANDS ROAD<br>LOTHIAN, MD 20711 |
| **Permitted Feature:** | 001<br>External Outfall | **Discharge:** | **001-B**<br>15-DP-0664 | | |
| ***Report Dates & Status*** | | | | | |
| **Monitoring Period:** | **From 01/01/20 to 01/31/20** | **DMR Due Date:** | **02/28/20** | **Status:** | **NetDMR Validated** |
| ***Considerations for Form Completion*** | | | | | |
| ***Principal Executive Officer*** | | | | | |
| **First Name:** | | **Title:** | | **Telephone:** | |
| **Last Name:** | | | | | |
| ***No Data Indicator (NODI)*** | | | | | |
| **Form NODI:** | -- | | | | |

| Parameter | | Monitoring Location | Season # | Param. NODI | | Quantity or Loading | | | | | Quality or Concentration | | | | | | | # of Ex. | Frequency of Analysis | Sample Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Code | Name | | | | | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Units | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Qualifier 3 | Value 3 | Units | | | |
| 00300 | **Oxygen, dissolved [DO]** | 1 - Effluent Gross | 0 | -- | Sample | | | | | | = | 7.0 | | | | | 19 - mg/L | | 01/01 - Daily | GR - GRAB |
| | | | | | Permit Req. | | | | | | >= | 5.0 MINIMUM | | | | | 19 - mg/L | | 01/01 - Daily | GR - GRAB |
| | | | | | Value NODI | | | | | | | | | | | | | | | |
| 00300 | **Oxygen, dissolved [DO]** | 1 - Effluent Gross | 1 | -- | Sample | | | | | | | | = | 9.3 | | | 19 - mg/L | | 01/30 - Monthly | CA - CALCTD |
| | | | | | Permit Req. | | | | | | | | >= | 5.5 MO AV MN | | | 19 - mg/L | | 01/30 - Monthly | CA - CALCTD |
| | | | | | Value NODI | | | | | | | | | | | | | | | |
| 00310 | **BOD, 5-day, 20 deg. C** | 1 - Effluent Gross | 0 | -- | Sample | = | 0.55 | = | 0.71 | 26 - lb/d | = | 5.46 | = | 4.17 | | | 19 - mg/L | | 01/07 - Weekly | 24 - COMP24 |
| | | | | | Permit Req. | <= | 8.8 MX MO AV | <= | 13.0 MX WK AV | 26 - lb/d | <= | 45.0 MX WK AV | <= | 30.0 MX MO AV | | | 19 - mg/L | | 01/07 - Weekly | 24 - COMP24 |
| | | | | | Value NODI | | | | | | | | | | | | | | | |
| 00400 | **pH** | 1 - Effluent Gross | 0 | -- | Sample | | | | | | = | 6.6 | | | = | 7.9 | 12 - SU | | 01/01 - Daily | GR - GRAB |
| | | | | | Permit Req. | | | | | | >= | 6.5 MINIMUM | | | <= | 8.5 MAXIMUM | 12 - SU | | 01/01 - Daily | GR - GRAB |
| | | | | | Value NODI | | | | | | | | | | | | | | | |
| 00530 | **Solids, total suspended** | 1 - Effluent Gross | 0 | -- | Sample | = | 2.03 | = | 5.11 | 26 - lb/d | = | 39.0 | = | 15.5 | | | 19 - mg/L | | 01/07 - Weekly | 24 - COMP24 |
| | | | | | Permit Req. | <= | 8.8 MX MO AV | <= | 13.0 MX WK AV | 26 - lb/d | <= | 45.0 MX WK AV | <= | 30.0 MX MO AV | | | 19 - mg/L | | 01/07 - Weekly | 24 - COMP24 |
| | | | | | Value NODI | | | | | | | | | | | | | | | |
| 00600 | **Nitrogen, total [as N]** | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | = | 40.54 | | | 19 - mg/L | | 01/30 - Monthly | CA - CALCTD |
| | | | | | Permit Req. | | | | | | | | | Req Mon MO AVG | | | 19 - mg/L | | 01/30 - Monthly | CA - CALCTD |
| | | | | | Value NODI | | | | | | | | | | | | | | | |
| 00600 | **Nitrogen, total [as N]** | 1 - Effluent Gross | 1 | -- | Sample | | | = | 164.53 | 76 - lb/mo | | | | | | | | | 01/30 - Monthly | CA - CALCTD |
| | | | | | Permit Req. | | | | Req Mon MO TOTAL | 76 - lb/mo | | | | | | | | | 01/30 - Monthly | CA - CALCTD |
| | | | | | Value NODI | | | | | | | | | | | | | | | |
| 00600 | **Nitrogen, total [as N]** | 1 - Effluent Gross | 2 | -- | Sample | | | = | 164.53 | 50 - lb/yr | | | | | | | | | 01/30 - Monthly | CA - CALCTD |
| | | | | | Permit Req. | | | | Req Mon CUM TOTL | 50 - lb/yr | | | | | | | | | 01/30 - Monthly | CA - CALCTD |
| | | | | | Value NODI | | | | | | | | | | | | | | | |
| 00605 | **Nitrogen, organic total [as N]** | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | = | 2.16 | | | 19 - mg/L | | 01/30 - Monthly | 24 - COMP24 |
| | | | | | Permit Req. | | | | | | | | | Req Mon MO AVG | | | 19 - mg/L | | 01/30 - Monthly | 24 - COMP24 |
| | | | | | Value NODI | | | | | | | | | | | | | | | |
| 00610 | **Nitrogen, ammonia total [as N]** | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | = | 0.89 | | | 19 - mg/L | | 01/30 - Monthly | 24 - COMP24 |
| | | | | | Permit Req. | | | | | | | | | Req Mon MO AVG | | | 19 - mg/L | | 01/30 - Monthly | 24 - COMP24 |
| | | | | | Value NODI | | | | | | | | | | | | | | | |
| 00630 | **Nitrite + Nitrate total [as N]** | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | = | 37.49 | | | 19 - mg/L | | 01/30 - Monthly | 24 - COMP24 |
| | | | | | Permit Req. | | | | | | | | | Req Mon MO AVG | | | 19 - mg/L | | 01/30 - Monthly | 24 - COMP24 |
| | | | | | Value NODI | | | | | | | | | | | | | | | |
| 00665 | **Phosphorus, total [as P]** | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | = | 7.27 | | | 19 - mg/L | | 01/30 - Monthly | 24 - COMP24 |
| | | | | | Permit Req. | | | | | | | | | Req Mon MO AVG | | | 19 - mg/L | | 01/30 - Monthly | 24 - COMP24 |
| | | | | | Value NODI | | | | | | | | | | | | | | | |
| 00665 | **Phosphorus, total [as P]** | 1 - Effluent Gross | 1 | -- | Sample | | | = | 29.51 | 76 - lb/mo | | | | | | | | | 01/30 - Monthly | CA - CALCTD |
| | | | | | Permit Req. | | | | Req Mon MO TOTAL | 76 - lb/mo | | | | | | | | | 01/30 - Monthly | CA - CALCTD |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Value NODI | | | | | | | | | | | | | | |
| 00665 | **Phosphorus, total [as P]** | 1 - Effluent Gross | 2 | -- | Sample | | | = | 29.51 | 50 - lb/yr | | | | | | | | 01/30 - Monthly | CA - CALCTD |
| | | | | | Permit Req. | | | | Req Mon CUM TOTL | 50 - lb/yr | | | | | | | | 01/30 - Monthly | CA - CALCTD |
| | | | | | Value NODI | | | | | | | | | | | | | | |
| 04175 | **Phosphate, ortho [as P]** | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | = | 7.7 | | | 19 - mg/L | 01/30 - Monthly | 24 - COMP24 |
| | | | | | Permit Req. | | | | | | | | | Req Mon MO AVG | | | 19 - mg/L | 01/30 - Monthly | 24 - COMP24 |
| | | | | | Value NODI | | | | | | | | | | | | | | |
| 50050 | **Flow, in conduit or thru treatment plant** | 1 - Effluent Gross | 0 | -- | Sample | = | 0.016 | = | 0.022 | 03 - MGD | | | | | | | | 99/99 - Continuous | RF - RCDFLO |
| | | | | | Permit Req. | | Req Mon MO AVG | | Req Mon DAILY MX | 03 - MGD | | | | | | | | 99/99 - Continuous | RF - RCDFLO |
| | | | | | Value NODI | | | | | | | | | | | | | | |
| 50060 | **Chlorine, total residual** | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | = | 0.0 | 19 - mg/L | 01/01 - Daily | GR - GRAB |
| | | | | | Permit Req. | | | | | | | | | | <= | 0.1 DAILY MX | 19 - mg/L | 01/01 - Daily | GR - GRAB |
| | | | | | Value NODI | | | | | | | | | | | | | | |
| 51040 | **E. coli** | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | = | 12.857 | 30 - MPN/100mL | 01/07 - Weekly | GR - GRAB |
| | | | | | Permit Req. | | | | | | | | | | <= | 126.0 MO GEOMX | 30 - MPN/100mL | 01/07 - Weekly | GR - GRAB |
| | | | | | Value NODI | | | | | | | | | | | | | | |
| 82220 | **Flow, total** | 1 - Effluent Gross | 0 | -- | Sample | | | = | 0.487 | 80 - Mgal/mo | | | | | | | | 01/30 - Monthly | CA - CALCTD |
| | | | | | Permit Req. | | | | Req Mon MO TOTAL | 80 - Mgal/mo | | | | | | | | 01/30 - Monthly | CA - CALCTD |
| | | | | | Value NODI | | | | | | | | | | | | | | |

***Submission Note***

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

***Edit Check Errors***

*No errors.*

***Comments***

***Attachments***

| Name | Type | Size |
|---|---|---|
| PatuxentDMRJanuary2020.pdf | pdf | 551438.0 |

***Report Last Saved By***

***Patuxent MHC, LLC***

User: [redacted] (b) (6) [redacted]

Name: [redacted] (b) (4) [redacted]

E-Mail: [redacted] (b) (6) [redacted]

Date/Time: 2020-06-11 09:18 (Time Zone: -04:00)

***Report Last Signed By***

User: [redacted] (b) (6) [redacted]

Name: [redacted] (b) (4) [redacted]

E-Mail: [redacted] (b) (6) [redacted]

Date/Time: 2020-06-11 09:18 (Time Zone: -04:00)

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

NAME: Patuxent MHC-LLC
ADDRESS: 2138 Espey Court- Suite 1
Crofton, Maryland 21114

FACILITY: Patuxent Mobile Estates-WWTP
LOCATION: 5380 Sands Road
Wayson's Corner: AA Co. Maryland 26711
ATTN: KATE COSTELLO

**NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM *(NPDES)***
**DISCHARGE MONITORING REPORT *(DMR)***

| 09-DP-0664A | MD0024694 |
|---|---|
| DISCHARGE NUMBER | DISCHARGE NUMBER |

Form Approved
OMB No. 2040-0004

| MONITORING PERIOD | YEAR | MO | DAY | | YEAR | MO | DAY |
|---|---|---|---|---|---|---|---|
| FROM | 2020 | 1 | 1 | TO | 2020 | 1 | 31 |

NOTE: Read Instructions before completing this form.

| PARAMETER | | QUANTITY OR LOADING AVERAGE | QUANTITY OR LOADING MAXIMUM | UNITS | QUALITY OR CONCENTRATION MINIMUM | QUALITY OR CONCENTRATION AVERAGE | QUALITY OR CONCENTRATION MAXIMUM | UNITS | NO. EX | Freq. Of Analysis | SAMPLE TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| FLOW, in conduit or thru treatment plant | SAMPLE MEASUREMENT | 0.016 | 0.022 | MGD | ****** | ****** | ****** | | 0 | CONT. | REC. |
| 50050 1 0 Effluent Gross | PERMIT REQUIREMENT | REPORT MONTHLY AVG. | DAILY MAX | | ****** | ****** | ****** | | | CONT. | REC. |
| BOD, 5 day 20 deg. C | SAMPLE MEASUREMENT | 0.55 | 0.71 | Lbs./day | ****** | 4.17 | 5.46 | MG/L | 0 | 3/31 | 24HR.C |
| 00310 1 0 Effluent Gross | PERMIT REQUIREMENT | 8.8 MAX MO AVG. | 13.0 MAX WKLY AVG. | | ****** | 30 MAX MO AVG. | 45 MAX WKLY AVG | | | ONCE per week | 24 HR. COMP. |
| pH | SAMPLE MEASUREMENT | ****** | ****** | | 6.6 | ****** | 7.9 | SU | 0 | 31/31 | GRAB |
| 00400 1 0 Effluent Gross | PERMIT REQUIREMENT | ****** | ****** | | 6.5 MINIMUM | | 8.5 MAXIMUM | | | DAILY | GRAB |
| Oxygen, dissolved | SAMPLE MEASUREMENT | ****** | ****** | **** | 7.00 | 9.33 | NA | MG/L | 0 | 31/31 | GRAB |
| 00300 1 0 Effluent Gross | PERMIT REQUIREMENT | ****** | ****** | | 5.0 INST. MIN. | 5.5 MO AVG MIN. | 6.0 2/1-5/1:Wkly Avg. | | | DAILY | GRAB |
| Solids, total suspended | SAMPLE MEASUREMENT | 2.03 | 5.11 | | ****** | 15.50 | 39.00 | MG/L | 0 | 3/31 | 24HR.C |
| 00530 1 0 Effluent Gross | PERMIT REQUIREMENT | 8.8 MAX MO AVG. | 13.0 MAX WKLY AVG. | Lbs./day | ****** | 30 MO AVG. | 45 MAX DAILY | | | ONCE per week | 24 HR. COMP. |
| E-Coli | SAMPLE MEASUREMENT | ****** | ****** | **** | ****** | ****** | 12.857 | MPN/ 100ML | 0 | 3/31 | GRAB |
| 51040 1 0 Effluent Gross | PERMIT REQUIREMENT | ****** | ****** | | ****** | ****** | 126 GEO MEAN | | | ONCE per week | GRAB |
| Chlorine, total residual | SAMPLE MEASUREMENT | ****** | ****** | **** | ****** | ****** | 0.00 | NA | 0 | NA | UV |
| 50060 1 0 Effluent Gross | PERMIT REQUIREMENT | ****** | ****** | | ****** | ****** | 0.10 DAILY MAX | | | DAILY | GRAB |
| Total Nitrogen (as N) | SAMPLE MEASUREMENT | ****** | 5.31 | Lbs./day | ****** | 40.54 | ****** | NA | 0 | Calc. | ****** |
| 00600 1 0 Daily/Monthly Total Lbs. | PERMIT REQUIREMENT | 164.53 | ****** | Lbs./Month | ****** | MO AVG. | | | | ONCE per month | Calculated |

| NAME/TITLE PRINCIPAL EXECUTIVE OFFICER | | | TELEPHONE | | DATE | | |
|---|---|---|---|---|---|---|---|
| Jack E Bradshaw Jr. Prostart: VP Operations | 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 | SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT | 443 | 903-4758 | 2020 | 2 | 28 |
| TYPED OR PRINTED | | | CODE | NUMBER | YEAR | MO | DAY |

COMMENTS AND EXPLANATION OF ANY VIOLATIONS *(Reference all attachments here)*

No Violations

PERMITTEE NAME/ADDRESS(*Include Facility Name & Location if Different*)
NAME: Patuxent MHC-LLC
ADDRESS: 2138 Espey Court- Suite 1
Crofton, Maryland 21114

FACILITY: Patuxent Mobile Estates-WWTP
LOCATION: 5380 Sands Road
Wayson's Corner: AA Co. Maryland 26711
ATTN: JACK BRADSHAW

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (*NPDES*)
DISCHARGE MONITORING REPORT (*DMR*)

| 09-DP-0664A | MD0024694 |
|---|---|
| DISCHARGE NUMBER | DISCHARGE NUMBER |

Form Approved
OMB No. 2040-0004

| MONITORING PERIOD | YEAR | MO | DAY | | YEAR | MO | DAY |
|---|---|---|---|---|---|---|---|
| FROM | 2020 | 1 | 1 | TO | 2020 | 1 | 31 |

NOTE: Read Instructions before completing this form.

| PARAMETER | | QUANTITY OR LOADING AVERAGE | QUANTITY OR LOADING MAXIMUM | UNITS | QUALITY OR CONCENTRATION MINIMUM | QUALITY OR CONCENTRATION AVERAGE | QUALITY OR CONCENTRATION MAXIMUM | UNITS | NO. EX | Freq. Of Analysis | SAMPLE TYPE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Nitrogen, Total (as N) Total Lbs./Year 00600 1 2 Cumulative/Year January to December | SAMPLE MEASUREMENT | ****** | **164.53** | LBS/YEAR | ****** | ****** | ****** | MG/L | 0 | Calc. | ****** |
| | PERMIT REQUIREMENT | ****** | | | ****** | MAX MO AVG. | ****** | | | ONCE per month | Calculated |
| Organic Nitrogen 00625 Effluent Gross | SAMPLE MEASUREMENT | ****** | ****** | Lbs./day | ****** | 2.16 | ****** | MG/L | 0 | NA | 24HR.C |
| | PERMIT REQUIREMENT | ****** | | | ****** | REG MO AVG. | ****** | | | ONCE per month | Calculated |
| Nitrate-Nitrite Nitrogen Total (as N) 00630 1 0 Effluent Gross | SAMPLE MEASUREMENT | ****** | ****** | Lbs./day | ****** | 37.49 | ****** | MG/L | 0 | 1/31 | 24HR.C |
| | PERMIT REQUIREMENT | ****** | ****** | | ****** | MAX MO AVG. | ****** | | | ONCE per week | 24 HR. COMP. |
| Ammonia Nitrogen Total (as N) 00630 1 0 Total (as N) | SAMPLE MEASUREMENT | 0.12 | ****** | Lbs./day | ****** | 0.89 | ****** | NA | 0 | 4/31 | 24HR.C |
| | PERMIT REQUIREMENT | ****** | ****** | | ****** | MAX MO AVG. | ****** | | | ONCE per week | 24 HR. COMP. |
| Phosphorous, Total (as P) 00665 1 0 0 Effluent Gross Value | SAMPLE MEASUREMENT | ****** | 0.952 | Lbs./day | ****** | 7.27 | ****** | MG/L | 0 | 1/31 | 24HR.C |
| | PERMIT REQUIREMENT | 29.51 | ****** | Lbs./Month | ****** | MONTHLY AVG. | | | | ONCE per week | 24 HR. COMP. |
| Phosphorous, Total (as P) Total Lbs./Year 00665 1 2 Cumulative/Year January to December | SAMPLE MEASUREMENT | ****** | **29.51** | Lbs./Year | ****** | ****** | ****** | NA | 0 | Calc. | 24HR.C |
| | PERMIT REQUIREMENT | ****** | | | ****** | ****** | ****** | | | ONCE per month | Calculated |
| FLOW, in conduit or thru treatment plant 50050 1 0 Cumulative/Year January to December | SAMPLE MEASUREMENT | **0.487** | 0.016 | MG | ****** | ****** | ****** | NA | | Calc. | ****** |
| | PERMIT REQUIREMENT | ****** | ****** | | ****** | ****** | ****** | | | ONCE per month | Calculated |

| NAME/TITLE PRINCIPAL EXECUTIVE OFFICER | | | TELEPHONE | | DATE | | |
|---|---|---|---|---|---|---|---|
| Jack E Bradshaw Jr. Prostart: VP Operations | 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 | SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT | 443 | 903-4758 | 2020 | 2 | 28 |
| TYPED OR PRINTED | | | CODE | NUMBER | YEAR | MO | DAY |

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (*Reference all attachments here*)
No Violations

PERMITTEE NAME/ADDRESS(*Include Facility Name & Location if Different*)
NAME: Patuxent MHC-LLC
ADDRESS: 2138 Espey Court- Suite 1

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (*NPDES*)
DISCHARGE MONITORING REPORT (*DMR*)
09-DP-0664A MD0024694

Form Approved
OMB No. 2040-0004

Crofton, Maryland 21114

| DISCHARGE NUMBER | DISCHARGE NUMBER |
|---|---|

FACILITY: Patuxent Mobile Estates-WWTP
LOCATION: 5380 Sands Road
Wayson's Corner: AA Co. Maryland 26711
ATTN: JACK BRADSHAW

| MONITORING PERIOD | YEAR | MO | DAY | | YEAR | MO | DAY |
|---|---|---|---|---|---|---|---|
| FROM | 2020 | 1 | 1 | TO | 2020 | 12 | 30 |

NOTE: Read Instructions before completing this form.

| PARAMETER | | QUANTITY OR LOADING | | | QUALITY OR CONCENTRATION | | | | NO. | Freq. Of | SAMPLE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | AVERAGE | MAXIMUM | UNITS | MINIMUM | AVERAGE | MAXIMUM | UNITS | EX | Analysis | TYPE |
| Ortho-Phosphorous, Total (as P) 04175 1 0 0 Effluent Gross Value | SAMPLE MEASUREMENT | ****** | ****** | **** | ****** | 7.70 | ****** | MG/L | 0 | 1/31 | 24HR.C |
| | PERMIT REQUIREMENT | ****** | ****** | | ****** | MONTHLY AVG. | ****** | | | ONCE per week | 24 HR. COMP. |

| NAME/TITLE PRINCIPAL EXECUTIVE OFFICER | | | TELEPHONE | | DATE | | |
|---|---|---|---|---|---|---|---|
| Jack E Bradshaw Jr. Prostart: VP Operations | 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 | SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT | 443 | 903-4758 | 2020 | 1 | 28 |
| TYPED OR PRINTED | | | CODE | NUMBER | YEAR | MO | DAY |

COMMENTS AND EXPLANATION OF ANY VIOLATIONS *(Reference all attachments here)*

| | e-coli MPN/100ml | e-coli logarithm of |
|---|---|---|
| week 1 | **5.3** | 0.72 |
| week 2 | **2.0** | 0.30 |
| week 3 | **200.5** | 2.30 |
| week 4 | | 0.00 |
| total | 207.8 | 3.32742 |
| count | 4 | 4 |
| avg | 12.857 | 0.831855 |

Patuxent Package Plant
5380 Sands Rd Lothian
Daily operational log sheet

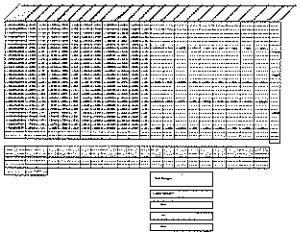
**Month:** January **Date:** 1/1-31/2020 Submitted by: (b) (4) Operator # _____

| operator | Date | day of week | Time | Weather | Temp Deg. F | Rain inches | odor | raw pH | BOD | Color | MLSS | 30 min set. | SVI | reactor temp | DO mg/l | blanket feet | NH4 mg/l | ALK mg/l | NOx mg/l | waste min | Final temp C | pH | D.O mg/l | UVI |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BD/TH | 1 | W | 1100 | CLR | 45 | 0 | NO | 7.1 | | BRN | 6190 | 890 | 144 | 14.1 | 1.8 | 7 | | | | 0 | 13.1 | 7.5 | 9.5 | 0 |
| BD/TH | 2 | T | 1230 | CLR | 47 | 0 | NO | 7.2 | | BRN | 6190 | 880 | 142 | 13 | 4.4 | 7 | 0.25 | 10 | 100 | 30 | 12.2 | 7.6 | 9.8 | 0 |
| BD/TH | 3 | F | 1030 | CLR | 51 | 0 | NO | 7.1 | | BRN | 6190 | 870 | 141 | 14.4 | 4.2 | 7 | | | | 30 | 14.2 | 7.9 | 9.2 | 0 |
| BD/TH | 4 | S | 1130 | CLR | 55 | 0 | NO | 7.4 | | BRN | 6190 | 830 | 134 | 15.2 | 1.2 | 7.5 | | | | 15 | 15 | 7.4 | 8.7 | 0 |
| BD/TH | 5 | S | 1030 | CLR | 38 | 0 | NO | 7.2 | | BRN | 6190 | 840 | 136 | 14.2 | 1.1 | 7.5 | | | | 0 | 13.5 | 7.9 | 9.3 | 0 |
| CH/JB | 6 | M | 1515 | CLR | 53 | 0 | NO | 6.8 | | BRN | 6190 | 870 | 141 | 13.9 | 5.5 | 7.5 | | | | 0 | 14.4 | 6.8 | 9.5 | 0 |
| CH/JB | 7 | T | 1600 | RAIN | 39 | 0.1 | NO | 7 | | BRN | 6190 | 860 | 139 | 12.9 | 5.9 | 8.5 | 0.5 | 6 | 100 | 0 | 12.3 | 6.9 | 9.6 | 0 |
| CH/JB | 8 | W | 1600 | CLR | 36 | 0 | NO | 6.8 | | BRN | 6190 | 880 | 142 | 12.4 | 4.4 | 8 | | | | 30 | 11.9 | 6.8 | 9.5 | 0 |
| DB | 9 | T | 1200 | CLR | 34 | 0 | NO | 7 | | BRN | 6190 | 870 | 141 | 11.6 | 6.4 | 8 | 0.25 | 6 | 100 | 15 | 10.3 | 7.3 | 9.9 | 0 |
| DB | 10 | F | 1130 | CLR | 50 | 0 | NO | 6.9 | | BRN | 6190 | 890 | 144 | 12.2 | 4 | 9.5 | | | | 15 | 11.3 | 7.3 | 9.9 | 0 |
| DB | 11 | S | 1130 | CLR | 64 | 0 | NO | 6.9 | | BRN | 6190 | 880 | 142 | 14.1 | 2.4 | 9 | | | | 0 | 13.6 | 7.1 | 9.3 | 0 |
| CH/JB | 12 | S | 800 | CLR | 66 | 0 | NO | 6.8 | | BRN | 6190 | 890 | 144 | 16.5 | 3.1 | 5 | | | | 0 | 16.4 | 6.8 | 8.6 | 0 |
| CH/JB | 13 | M | 1600 | CLR | 54 | 0 | NO | 6.6 | | BRN | 6190 | 880 | 142 | 15.4 | 5.2 | 9 | | | | 0 | 14.2 | 6.6 | 9.1 | 0 |
| CH/JB | 14 | T | 1600 | RAIN | 46 | 0.5 | NO | 6.9 | | BRN | 6190 | 880 | 142 | 15.6 | 2.6 | 7 | 0.5 | 6 | 100 | 0 | 12.6 | 6.9 | 9.3 | 0 |
| BD/TH | 15 | W | 1100 | CLR | 48 | 0 | NO | 7.4 | | BRN | 6190 | 860 | 139 | 15.2 | 3.6 | 7 | | | | 0 | 14.8 | 7.4 | 7 | 0 |
| BD/TH | 16 | T | 1230 | CLR | 53 | 0 | NO | 7.3 | | BRN | 6190 | 870 | 141 | 15 | 2.9 | 7 | 0.5 | 6 | 100 | 30 | 14.5 | 7.6 | 9.3 | 0 |
| BD/TH | 17 | F | 1130 | CLR | 34 | 0 | NO | 7 | | BRN | 5445 | 880 | 162 | 12.8 | 6.4 | 7 | | | | 30 | 12.1 | 7.4 | 9.9 | 0 |
| CH/JB | 18 | S | 900 | CLDY | 25 | 0 | NO | 6.9 | | BRN | 5445 | 880 | 162 | 12 | 6 | 7 | | | | 30 | 12 | 6.9 | 9.9 | 0 |
| CH/JB | 19 | S | 800 | CLR | 41 | 0.1 | NO | 6.9 | | BRN | 5445 | 870 | 160 | 12.9 | 5.7 | 6 | | | | 0 | 11.4 | 6.9 | 9.7 | 0 |
| CH/JB | 20 | M | 1200 | CLR | 30 | 0 | NO | 6.9 | | BRN | 5445 | 880 | 162 | 11.7 | 3.2 | 9 | | | | 0 | 11.4 | 6.8 | 9.6 | 0 |
| BD/TH | 21 | T | 1130 | CLR | 31 | 0 | NO | 7 | | BRN | 5445 | 910 | 167 | 10.8 | 5.9 | 9 | 0.25 | 6 | 100 | 0 | 10.3 | 7.1 | 9.9 | 0 |
| BD/TH | 22 | W | 1100 | CLR | 32 | 0 | NO | 7 | | BRN | 5445 | 850 | 156 | 10.6 | 6.3 | 8 | | | | 0 | 9.2 | 7.5 | 9.1 | 0 |
| BD/TH | 23 | T | 1130 | CLR | 38 | 0 | NO | 7.1 | | BRN | 5445 | 870 | 160 | 11 | 4.6 | 7 | 0.5 | 10 | 100 | 0 | 10.3 | 7.4 | 9.9 | 0 |
| DB | 24 | F | 1245 | CLR | 45 | 0 | NO | 7.3 | | BRN | 5445 | 830 | 152 | 11.9 | 5 | 8 | | | | 30 | 11.1 | 7.5 | 9.9 | 0 |
| CH/JB | 25 | S | 845 | CLDY | 46 | 0.1 | NO | 7.1 | | BRN | 5445 | 850 | 156 | 12.4 | 5.1 | 7 | | | | 60 | 10.9 | 7 | 9.2 | 0 |
| CH/JB | 26 | S | 930 | CLR | 43 | 0 | NO | 7 | | BRN | 5445 | 780 | 143 | 12.3 | 5.4 | 9 | | | | 30 | 11.4 | 7 | 10.5 | 0 |
| CH/JB | 27 | M | 1600 | CLR | 47 | 0 | NO | 7 | | BRN | 5445 | 850 | 156 | 13.2 | 2.7 | 9 | | | | 0 | 11.6 | 7 | 9.4 | 0 |
| CH/JB | 28 | T | 1420 | CLR | 43 | 0 | NO | 6.9 | | BRN | 5445 | 800 | 147 | 13.3 | 2.2 | 8 | 0.5 | 10 | 100 | 0 | 12.1 | 6.9 | 7.9 | 0 |
| DB/TH | 29 | W | 1130 | CLR | 39 | 0 | NO | 7.1 | | BRN | 5445 | 840 | 154 | 13.1 | 4 | 7 | | | | 0 | 12.5 | 7.4 | 8.8 | 0 |
| DB/TH | 30 | T | 1100 | CLR | 41 | 0 | NO | 7.2 | | BRN | 5445 | 840 | 154 | 12.3 | 5.2 | 7 | 0.25 | 10 | 250 | 45 | 11.8 | 7.3 | 9 | 0 |
| DB/TH | 31 | F | 930 | CLR | 36 | 0 | NO | 7.1 | | BRN | 5445 | 780 | 143 | 12.2 | 4.4 | 7 | | | | 0 | 11.2 | 7.5 | 9.2 | 0 |

**PME Totalizer Readings**
**Month: January**

| | Totalizer (x100) |
|---|---|
| 12/31/2019 | **215555** |

| Date | Final Flow | GPD | MGD | Pump 1 | Total | Pump 2 | Total | UV | Total | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|
| 01/01/2020 | 215734 | 16470 | 0.01647 | | 0 | | 0 | 1872 | 3026 | Recently started decanting at this site |
| 01/02/2020 | 215898 | 14440 | 0.01444 | | 0 | | 0 | 4898 | -2978 | reducing the sluge hauling. |
| 01/03/2020 | 216043 | 13430 | 0.01343 | | 0 | | 0 | 1920 | 25 | |
| 01/04/2020 | 216177 | 17750 | 0.01775 | | 0 | | 0 | 1945 | 22 | |
| 01/05/2020 | 216354 | 20540 | 0.02054 | | 0 | | 0 | 1967 | 29 | Return sludge needs to be remodified |
| 01/06/2020 | 216560 | 16960 | 0.01696 | | 0 | | 0 | 1996 | 24 | in order to prevent hydraulically |
| 01/07/2020 | 216729 | 14860 | 0.01486 | | 0 | | 0 | 2020 | 29 | overloading the areation reactor. |
| 01/08/2020 | 216878 | 12920 | 0.01292 | | 0 | | 0 | 2049 | 16 | |
| 01/09/2020 | 217007 | 14500 | 0.0145 | | 0 | | 0 | 2065 | 23 | UV intensity sesor needs to be |
| 01/10/2020 | 217152 | 14080 | 0.01408 | | 0 | | 0 | 2088 | 25 | addressed at this site also, flow exceeded |
| 01/11/2020 | 217293 | 15010 | 0.01501 | | 0 | | 0 | 2113 | 20 | plant design 3 times this month. |
| 01/12/2020 | 217443 | 18550 | 0.01855 | | 0 | | 0 | 2133 | 32 | |
| 01/13/2020 | 217629 | 14350 | 0.01435 | | 0 | | 0 | 2165 | 23 | Need to modify scum removal system |
| 01/14/2020 | 217772 | 11230 | 0.01123 | | 0 | | 0 | 2188 | 20 | at secondary. |
| 01/15/2020 | 217884 | 15150 | 0.01515 | | 0 | | 0 | 2208 | 25 | |
| 01/16/2020 | 218036 | 14230 | 0.01423 | | 0 | | 0 | 2233 | 23 | |
| 01/17/2020 | 218178 | 11530 | 0.01153 | | 0 | | 0 | 2256 | 45 | |
| 01/18/2020 | 218294 | 13770 | 0.01377 | | 0 | | 0 | 2301 | 13 | |
| 01/19/2020 | 218431 | 19730 | 0.01973 | | 0 | | 0 | 2314 | 15 | |
| 01/20/2020 | 218629 | 16470 | 0.01647 | | 0 | | 0 | 2329 | 24 | |
| 01/21/2020 | 218793 | 17040 | 0.01704 | | 0 | | 0 | 2353 | 23 | |
| 01/22/2020 | 218964 | 16830 | 0.01683 | | 0 | | 0 | 2376 | 25 | |
| 01/23/2020 | 219132 | 15480 | 0.01548 | | 0 | | 0 | 2401 | 24 | |
| 01/24/2020 | 219287 | 13930 | 0.01393 | | 0 | | 0 | 2425 | 20 | |
| 01/25/2020 | 219426 | 16930 | 0.01693 | | 0 | | 0 | 2445 | 25 | |
| 01/26/2020 | 219595 | 22020 | 0.02202 | | 0 | | 0 | 2470 | 31 | |
| 01/27/2020 | 219816 | 13440 | 0.01344 | | 0 | | 0 | 2501 | 22 | |
| 01/28/2020 | 219950 | 14890 | 0.01489 | | 0 | | 0 | 2523 | 21 | |
| 01/29/2020 | 220099 | 11960 | 0.01196 | | 0 | | 0 | 2544 | 22 | |
| 01/30/2020 | 220218 | 20370 | 0.02037 | | 0 | | 0 | 2566 | 25 | |
| 01/31/2020 | 220422 | 12790 | 0.01279 | | 0 | | 0 | 2591 | 22 | |
| | 220550 | | | | | | | 2613 | | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| AVG | | **15537** | **0.016** | | 0 | | 0 | 2331 | 24 |
| MAX | | **22020** | **0.022** | | 0 | | 0 | 4898 | 3026 |
| MIN | | **11230** | **0.011** | | 0 | | 0 | 1872 | -2978 |

| | |
|---|---|
| Total Flow (gals) | **486690** |
| Total Flow (MG) | **0.487** |
| Avg Flow (GPD) | **15700** |
| Avg Flow (MGD) | **0.016** |