

1ST APRIL 2020 - 31ST MARCH 2021

| Sample Data | Monthly Rainfall | DISCHARGE AND MP1 | | | | | | | | DISCHARGE AND MP6 | | | | | | | | LOAD CALCULATIONS | | | | | MP2 Daily Volume | MP4 | | | MP3 | | | MP2 Monthly Flow |
|--|------------------|-------------------|----------|----------|-----|----------|-----|----------|----------|--|----------|------|----------|----------|-----|----------|----------|-------------------|--------|----------|------------|---------|------------------|-------------|----------|---------------------|-----------|----------|----------|------------------|
| | | Faecal Coliforms | Amm | pH | TSS | BOD | O&G | Total N | Phos | Faecal Coliforms | Amm | pH | TSS | BOD | O&G | Total N | Phos | TSS Ld | BOD Ld | O&G Ld | Total N Ld | Phos Ld | | Down Stream | | | Up Stream | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | Phos | Nitrates | p H | Phos | Nitrates | p H | |
| 30/04/2020 | 94 | 9 | 1.52 | 7.07 | 31 | 6 | 2 | 6.89 | 0.37 | | | | | | | | | 48.174 | 9.324 | 3.108 | 10.70706 | 0.57498 | 1554 | 0.1 | 1.46 | 7.03 | 0.05 | 0.28 | 6.95 | 31451 |
| 31/05/2020 | 54.5 | 7 | 3.8 | 6.55 | 5 | 17 | 2 | 10.2 | 0.17 | | | | | | | | | 3.76 | 12.784 | 1.504 | 7.6704 | 0.12784 | 752 | 0.05 | 1.7 | 7.01 | 0.07 | 0.45 | 7.06 | 37075 |
| 30/06/2020 | 59 | 9 | 5.1 | 6.75 | 5 | 12 | 2 | 10.9 | 0.25 | | | | | | | | | 6.22 | 14.928 | 2.488 | 19.5596 | 0.311 | 1244 | 0.05 | 1.9 | 7.06 | 0.05 | 0.41 | 7.14 | 33471 |
| 30/07/2020 | 59 | 18 | 6.06 | 6.78 | 2 | 13 | 2 | 12.1 | 0.2 | | | | | | | | | 1.314 | 8.541 | 1.314 | 7.9497 | 0.1314 | 657 | 0.05 | 19.9 | 7.16 | 0.05 | 0.25 | 6.72 | 28839 |
| 30/08/2020 | 94.5 | 9 | 3.7 | 7.46 | 4 | 4 | 2 | 16.7 | 0.09 | | | | | | | | | 6.848 | 6.848 | 3.424 | 28.3904 | 0.13408 | 1712 | 0.05 | 2.4 | 7.08 | 0.05 | 0.6 | 7.11 | 50064 |
| 30/09/2020 | 75 | 10 | 1.27 | 8.92 | 5 | 10 | 2 | 9.6 | 0.08 | | | | | | | | | 7.17 | 14.34 | 2.868 | 13.7664 | 0.11472 | 1434 | 0.05 | 1.8 | 7.4 | 0.05 | 0.9 | 8.9 | 40247 |
| 30/10/2020 | 86 | 9 | 1.02 | 7.32 | 7 | 8 | 2 | 7.8 | 0.15 | | | | | | | | | 13.699 | 15.656 | 3.914 | 15.2646 | 0.29355 | 1957 | 0.05 | 1.4 | 7.76 | 0.05 | 1 | 7.33 | 39240 |
| 30/11/2020 | 49 | 91 | 0.16 | 7.33 | 14 | 12 | 2 | 3.1 | 0.17 | | | | | | | | | 11.004 | 9.432 | 1.572 | 2.4366 | 0.13362 | 786 | 0.08 | 1.1 | 7.08 | 0.05 | 1 | 6.89 | 29774 |
| 30/12/2020 | 117.5 | 9 | 0.9 | 7.12 | 8 | 7 | 2 | 6.2 | 0.52 | | | | | | | | | 6.856 | 5.999 | 1.714 | 5.3134 | 0.44564 | 857 | 0.12 | 1.8 | 7.09 | 0.05 | 1 | 6.9 | 30957 |
| 30/01/2021 | 68.2 | | | | | | | | | 1500 | 7.72 | 7.01 | 5 | 6 | 2 | 22.4 | 0.35 | 4.37 | 5.244 | 1.748 | 19.5776 | 0.3059 | 874 | 0.1 | 2 | 7.02 | 0.05 | 0.4 | 6.88 | 34577 |
| 28/02/2021 | 160 | | | | | | | | | 3200 | 4.99 | 7.34 | 12 | 4 | 2 | 20.4 | 0.36 | 12.912 | 4.304 | 2.152 | 21.9504 | 0.38736 | 1076 | 0.1 | 3 | 6.95 | 0.06 | 1 | 6.84 | 38252 |
| 30/03/2021 | 233 | | | | | | | | | 2000 | 4.38 | 7.19 | 6 | 3 | 2 | 19.4 | 0.33 | 13.074 | 6.597 | 4.358 | 42.2726 | 0.71907 | 2179 | 0.08 | 4.1 | 6.98 | 0.05 | 0.7 | 6.91 | 61495 |
| Min | | 7 | 0.16 | 6.55 | 2 | 4 | 2 | 3.1 | 0.08 | 1500 | 4.38 | 7.01 | 5 | 3 | 2 | 19.4 | 0.33 | | | | | | Min | 0.05 | 1.1 | 6.95 | 0.05 | 0.25 | 6.72 | |
| Mean | | 19 | 2.614444 | 7.255556 | 9 | 9.888889 | 2 | 9.276667 | 0.222222 | 2233.333 | 5.696667 | 7.18 | 7.666667 | 4.333333 | 2 | 20.73333 | 0.346667 | | | | | | Mean | 0.073333 | 3.546667 | 7.135 | 0.0525 | 0.665833 | 7.135833 | |
| Max | | 91 | 6.06 | 8.92 | 31 | 17 | 2 | 16.7 | 0.52 | 3200 | 7.72 | 7.34 | 12 | 6 | 2 | 22.4 | 0.36 | | | | | | Max | 0.12 | 19.9 | 7.76 | 0.07 | 1 | 8.9 | |
| Sum of Observed Daily Loads | | | | | | | | | | Sum of Observed Daily Loads | | | | | | | | | | 135.401 | 113.937 | 30.164 | 189.0588 | 3.69916 | 15082 | ANNUAL FLOW | | | 457442 | |
| Flow Weighted Concentration | | | | | | | | | | Flow Weighted Concentration | | | | | | | | | | 0.008978 | 0.007555 | 0.002 | 0.012535 | 0.00245 | | MEAN DAILY FLOW k L | | | 1253.27 | |
| Flow Weighted Concentration X Total Flow | | | | | | | | | | Flow Weighted Concentration X Total Flow | | | | | | | | | | 4106.757 | 3455.747 | 914.884 | 5734.214 | 112.1967 | | MIN DAILY FLOW k L | | | 35.00 | |
| STORMWATER BYPASS TOTAL (k L) | | | | | | | | | | STORMWATER BYPASS TOTAL (k L) | | | | | | | | | | | | | | | 3823490 | MAX DAILY FLOW k L | | | 3458.00 | |

| PERCENTILE CONCENTRATION LIMIT | | | | | |
|---------------------------------------|---------|------------------------------------|------------------------------------|------------------------------------|-------------------------------------|
| DISCHARGE TO WATER/MONITORING POINT 1 | | | | | |
| POLLUTANT | | 50 PERCENTILE CONCENTRATION LIMITS | 80 PERCENTILE CONCENTRATION LIMITS | 90 PERCENTILE CONCENTRATION LIMITS | 100 PERCENTILE CONCENTRATION LIMITS |
| OIL AND GREASE | LIMIT | | | | 10 |
| | READING | | | | 2 |
| p H | LIMIT | | | | 6.5 - 8.5 |
| | READING | | | | 8.92 |
| NITROGEN (TOTAL) | LIMIT | | | 15 | 20 |
| | READING | | | 13 | 17 |
| PHOSPHOROUS (TOTAL) | LIMIT | | | 1 | 2 |
| | READING | | | 0.40 | 0.52 |
| FAECAL COLIFORMS | LIMIT | | 200 | | 600 |
| | READING | | 13 | | 91 |
| TOTAL SUSPENDED SOLIDS (TSS) | LIMIT | 20 | | 25 | 30 |
| | READING | 5 | | 17 | 31 |
| BIOCHEMICAL OXYGEN DEMAND (BOD) | LIMIT | 15 | | 20 | 30 |
| | READING | 10 | | 14 | 17 |

| Assessable Pollutant | | | | | |
|---|---------------------------------|------------------|--------------|--------------------|------------------------------|
| | BIOCHEMICAL Oxygen Demand (BOD) | Nitrogen (Total) | Oil & Grease | Phosphorus (Total) | Total Suspended solids (TSS) |
| Load Limits kg | 1950 | 4750 | 1150 | 1200 | 8150 |
| Assessable Load (AL) (To Date) | 3455.7 | 5734.2 | 914.9 | 112.2 | 4106.8 |
| Small Plant Factor (<10000 ML per Year) | 3.458 | 3.458 | 3.458 | 3.458 | 3.458 |
| Fee Rate Threshold (FRT) Factor | 10 | 10 | 2 | 0.3 | 15 |
| Calculated Fee Rate Threshold (CFRT) | 34.58 | 34.58 | 6.916 | 1.0374 | 51.87 |
| Assessable Fee Rate Threshold (AFRT) | 6876.9 | 11433.6 | 1822.9 | 223.4 | 8161.6 |
| Calculation Factor (CF) | 0.004262 | 0.294078 | 0.315388 | 8.69448 | 0.332436 |
| Calculated Pollutant fee | \$29.31 | \$3,362.44 | \$574.91 | \$1,941.96 | \$2,713.22 |

| | |
|------------------------------|-------------------|
| Biochemical Oxygen Demand | 29.31 |
| Nitrogen (Total) | \$3,362.44 |
| Oil & Grease | \$574.91 |
| Phosphorus (Total) | \$1,941.96 |
| Total Suspended solids (TSS) | \$2,713.22 |
| | \$8,592.54 |

Small Plant Factor (ML per year) = Total Yearly Flow

Small Plant Factor (ML per year) x FRT = CFRT

Assessable Load (AL) x CFRT = AFRT

AFRT x CF = Calculated Pollutant Fee