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| Minnesota Pollution Control Agency (MPCA), 520 Lafayette Road North, St. Paul, MN 55155-4194 | Municipal spray irrigation annual report  Municipal Wastewater Program  Doc Type: Permitting Annual Report |

## Instructions:The yearly completion and submittal of this form will fulfill your permit requirements for annual reporting of spray irrigation activities. Make additional copies of this form if you irrigate to more than three sites. Please provide information regarding spray operation problems and/or changes in your email. Additional comments can be added at the end of the form.

## **Submittal:** This annual report must be submitted via email by January 21 of each year to: [wq.submittals.mpca@state.mn.us](mailto:wq.submittals.mpca@state.mn.us), along with the [Water Quality Submittals form](https://www.pca.state.mn.us/sites/default/files/wq-wwprm7-71.docx), found on the Minnesota Pollution Control Agency’s (MPCA) website at <https://www.pca.state.mn.us/water/discharge-monitoring-reports>. The email subject should be “WQ Submittal – [insert your Permit No.]”.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Reporting year:** |  | **NDPES or SDS permit number:** | | MN |  |
| **Facility name:** |  | | | | |
| **Mailing address:** |  | | | | |
| **Contact person:** |  | **Phone number:** |  | | |
| **Email address:** |  | | | | |

Hydraulic loadings – sums will automatically update when a field is exited by tabbing to the next cell, or by clicking in another cell\*

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | **Site** |  |  | **Site** |  |  | **Site** |  |  | **Precipitation** (inches) |
| **Month** |  | Million gallons | |  | Million gallons | |  | Million gallons | |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| April |  |  |  |  |  |  |  |  |
| May |  |  |  |  |  |  |  |  |
| June |  |  |  |  |  |  |  |  |
| July |  |  |  |  |  |  |  |  |
| August |  |  |  |  |  |  |  |  |
| September |  |  |  |  |  |  |  |  |
| October |  |  |  |  |  |  |  |  |
| November |  |  |  |  |  |  |  |  |
| **Total** |  | 0.000 |  | 0.000 |  | 0.000 |  | 0.00 |

*\*Cells cannot be left blank, enter 0 if value is 0*

Nitrogen loadings – sums will automatically update when a field is exited by tabbing to the next cell, or by clicking in another cell

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | **Site** |  |  | **Site** |  |  | **Site** |  |  |  |
|  |  | Pounds/acre | |  | Pounds/acre | |  | Pounds/acre | |  |
| Effluent\*\* |  |  | |  |  | |  |  | |  |  |
| Fertilizer |  |  | |  |  | |  |  | |  |  |
| Manure |  |  | |  |  | |  |  | |  |  |
| Other |  |  | |  |  | |  |  | |  |  |
| **Total** |  | 0.00 | |  | 0.00 | |  | 0.00 | |  |  |

## *\*Cells cannot be left blank, enter 0 if value is 0*

## *\*\*Effluent nitrogen loading (pounds/acre) = million gallons/acre x 8.34 x total nitrogen [total nitrogen = kjeldahl nitrogen (mg/l) plus nitrite+nitrate nitrogen (mg/l)].*

Crop information

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | **Site** |  |  | **Site** |  |  | **Site** |  |
| Crop grown |  |  | |  |  | |  |  | |
| Crop yield |  |  | |  |  | |  |  | |

Soil analytical results

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Site:** | | | | **Site:** | | | | **Site:** | | | |
| Date sampled (mm/dd/yyyy) |  | | | |  | | | |  | | | |
| Organic matter, % |  |  |  |  |  |  |  |  |  |  |  |  |
| pH |  |  |  |  |  |  |  |  |  |  |  |  |
| Phosphorus, ppm |  |  |  |  |  |  |  |  |  |  |  |  |
| Potassium, ppm |  |  |  |  |  |  |  |  |  |  |  |  |
| Soluble salts, mmhos/cm |  |  |  |  |  |  |  |  |  |  |  |  |

## *1 soil analysis for every 40 acres of spray site. Space is provided for up to 4 analyses per site (up to 160 acre spray site). Each soil sample should be composed of 15 to 20 subsamples collected from the surface 6 to 9 inches of soil (plow layer).*

**Comments:**