**Section 391.APPENDIX G Sludge User Information Sheet**

|  |  |  |
| --- | --- | --- |
| 1. | Date: |  |
|  |
| 2. | Name of User: |  |
|  |
| 3. | Address of User: |  |
|  |
| 4. | Phone Number of User: |  |
|  |
| 5. | Location Where Sludge is to be Used: |  |
|  |
| 6. | Size of Area Where Sludge is to be Used: |  |
|  |
| 7. | Proximity of Site to closest: | (a) Stream or other body of water  |  |
|  | (b) Dwelling  |  | (c) Well  |  |
|  | (d) Other Water Supply, (describe) |  |
|  |
| 8. | Amount of Sludge Obtained: |  |
|  | (Specify units) |  |
|  |  |  |
| 9. | Describe Use(s) of Sludge (e.g., Farmland or Agricultural, Garden, Yard, Reclamation of Nutrient Deficient Land, Other): |
|  |  |
|  |  |
|  |  |  |
| 10. | Manner in Which Sludge is to be Applied (e.g., Spread by Truck or dry applicator, by Hand, Worked into the Soil by Plowing, Rototilling, Surface Application, Splash Plate, Knife injection, other): |
|  |  |
|  |  |
|  |  |  |
| 11. | Will Sludge be Stockpiled Before Application: | Yes | No | (Circle One) |
|  |  |  |
| 12. | Estimated Length of Time Sludge is to be Stockpiled: |  |
|  |  |  |
| 13. | Type and expected yield of crops to be grown on sludge conditioned land: |
|  |  |
|  |  |
|  |  |  |
|  |  |  |
| 14. | I desire to have the sludge applied at a rate that will satisfy my crop's NITROGEN; PHOSPHORUS (Circle One) needs. |
|  |  |  |
| 15. | The soil pH of the land that I am applying sludge is: |  |
|  |  |  |
| 16. | The average depth to the groundwater table on the site where I am using the sludge is |
|  |  | ft. |
|  |  |  |
|  | How determined? |  |
|  |  |  |
| 17. | Limitations from Site Characteristics: |  |
|  |  |  |
|  |  |  |
| 18. | Has sludge been applied to land within last 5 years? | Yes | No | (Circle One) |
|  |  |  |
|  |  | Name of Generator |  |  |
|  |  | Amount Applied |  |  |
|  |  | Years Applied |  |  |

SPECIFIC REQUIREMENTS FOR THE USE OF SLUDGE

The sludge that you are obtaining contains the following:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Plant Available Nitrogen (N)  |  | % and/or |  | lbs. per dry ton |
| Phosphorus (P2O5)  |  | % and/or |  | lbs. per dry ton |
| Soluble Potash (K2O) |  | % and/or |  | lbs per dry ton |
| Cadmium (Cd) |  | lbs. per dry ton |
| Copper (Cu) |  | lbs. per dry ton |
| Lead (Pb) |  | lbs. per dry ton |
| Manganese (Mn) |  | lbs. per dry ton |
| Nickel (Ni) |  | lbs. per dry ton |
| Zinc (Zn) |  | lbs. per dry ton |

To maximize the benefits of conditioning soils with sludge and minimizing possible adverse effects on the environment, it is required that the following provisions be adhered to:

1. Cropping and Access Restrictions:

a. It is not recommended that leafy or root vegetables such as lettuce, Swiss chard, potatoes, horseradish, carrots, etc., be grown on sludge conditioned soil.

b. Pasture or hay ground that has received sludge shall not be harvested or used for livestock grazing for one month or until precipitation of sufficient duration and intensity has occurred and washed all sludge from that area of the plant which can be injested by an animal, whichever is greater.

2. Climate Conditions:

a. Sludge application shall not be permitted on land during precipitation.

b. Sludge application shall not be permitted on land which is saturated or with ponded water.

c. Sludge application should not be permitted upon sites when precipitation is imminent or which have received greater than ¼ inch rainfall within the 24 hour period preceding the application time.

d. Sludge application shall not be permitted on ice or snow covered ground. Frozen ground which is not ice or snow covered and has a slope of 5% or less may be used for winter spreading providing a 200 feet grassy area of forage crop exists between the sludge applied land and any surface water or water well.

3. Buffer Area Requirements

a. Sludge shall not be applied on land which lies within 150 feet from wells or other water supplies and 200 feet from surface waters or within one-fourth of a mile of any potable water supply well located in consolidated bedrock or sinkhole areas unless 50 feet of non-sandy or non-gravelly unconsolidated material exists.

b. Sludge application by incorporation or injection shall not be done closer than 20 feet from any occupied dwelling or 10 feet from the closest edge of traveled portions of a public road or outside roadway fence lines.

c. Top application of sludge with no immediate incorporation shall not be done closer than 200 feet from any occupied dwelling or 20 feet from the closest edge of traveled portions of a primary and secondary public roads or 10 feet from the closest edge of lesser utilized public roads or outside roadway fence lines.

d. Sludge application by ridge and furrow shall not be done closer than 200 feet from any occupied dwelling or the closest edge of traveled portions of a public road or outside roadway fence lines.

e. Sludge shall not be applied in waterways. Application to flood plains having a frequency of return more often than a ten-year frequency shall not be allowed.

4. Soil and Geologic Conditions:

a. Sludge applied land must have a soil pH of 6.5 or greater and cation exchange capacity of 5 or greater. Water treatment plant lime sludge may be used to raise the soil pH.

b. For sludge applied soils having the following infiltration rates/hour as determined by standard percolation tests, the listed minimum soil depth to the mean annual water table shall be adhered to:

 Greater than 2 inches/hour – 10 feet

 Less than or equal to 2 inches/hour – 5 feet

c. Sludge shall not be top applied (no incorporation) to farm land having greater than 5% slope. If the slope does exceed 5% top application can be used providing the annual soil loss, as calculated by the Universal Soil Loss Equation shall not exceed 5 tons/acre.

d. Sludge may be incorporated on lands having slopes up to eight percent, irrespective of soil loss. If the slope exceeds eight percent, incorporation methods may be used providing the annual soil loss does not exceed five tons per acre when applying the Universal Soil Loss Equation.

5. Interim Storage and Application Restrictions:

a. Off-site interim storage of liquid sludge prior to land application is not allowed.

b. Off-site interim storage of dried sludge in excess of 2 months is not allowed.

c. Annual sludge application shall not exceed the nitrogen agronomic rates for the crop grown nor exceed the rate for the most restrictive heavy metal for the site lifetime, whichever is more restrictive. Therefore, the maximum annual amount of sludge you can apply for your specific needs may not exceed \_\_\_\_\_dry tons/acre; gallons/acre (Circle One).

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

I hereby agree to adhere to the above conditions.

All blanks other than the above sign-off shall be filled in by the sludge generator.