|   | r Environmental F<br>ste Management<br>ste Branch<br>I – Frankfort KY<br>64-6716 | 40601                          |                    |   |                    |            | L USE ONLY. DO<br>IN THIS SPACE       |              |  |  |
|---|--|--------------------------------|--------------------|---|--------------------|------------|---------------------------------------|--------------|--|--|
| Anr   | Annual Biosolids Land Application Report  1. Permittee Information               |                                |                    |   |                    |            |                                       |              |  |  |
| Agonov Interact Number fo                             | r \\\\\\/TD:   | Name of WWT                    |                    | mation                                  |                    |            |                                       |              |  |  |
| Agency Interest Number for                            | If more than one WWTP, provide information KPDES Number:                         |                                |                    |   |                    |            |                                       |              |  |  |
| as Attachment 1.                                      | provide information  |                                | er:                |   |                    |            |                                       |              |  |  |
| Agency Interest Number for                            | r Permittee:   |                                | Pe                 | rmittee Name                            | ə:                 |            |                                       |              |  |  |
| Address:  |  |                                |                    |   |                    |            |                                       |              |  |  |
| City:   | St   | ate:                           |                    |   | Zip Code:          |            |                                       |              |  |  |
| Phone Number: ( ) -                                   |  | Email:                         |                    |   |                    |            |                                       |              |  |  |
| 2. Biosolids Management Information                   |  |                                |                    |   |                    |            |                                       |              |  |  |
| Type of management of b                               | piosolids  |                                |                    | uantity<br>bose one)                    | Unit<br>(Gal, Yd³, | wт         | Dry Metric<br>Tons                    | % Solids     |  |  |
| Treated and land appli                                | ied, sold, or given awa  | у                              |                    |   |                    |            |                                       |              |  |  |
| Sent to landfill (Include is located in Attachment    |  | unty & state it                |                    |   |                    |            |                                       |              |  |  |
| ☐ Sent to another permit facility name and county     |  |                                |                    |   |                    |            |                                       |              |  |  |
| ☐ Long term storage at t drying bed)                  | reatment facility (e.g.,   | lagoon,                        |                    |   |                    |            |                                       |              |  |  |
| Other (Describe method                                | od of disposition as At  | tachment 2)                    |                    |   |                    |            |                                       |              |  |  |
|   |  | 3. Biosolids A                 | Analysis           | s Information                           | า                  | ·          |                                       |              |  |  |
| Monitoring frequency                                  | ☐ Once per year  | Once per quarter               | Once per 60 days   |   |                    |            | Once per month                        |              |  |  |
| Metric tons   | Less than 290  | 290 or greate<br>less than 1,5 |                    | 1,500 or greater but less thar 15,000   |                    |            | an Equal to or greater than or 15,000 |              |  |  |
| US tons   | Less than 319  | 319 or greate<br>less than 1,6 |                    | t 1,650 or greater but less thar 16,500 |                    | ss than    | an Equal to or greater than 16,500    |              |  |  |
| Date(s) of sampling:                                  |  |                                |                    |   |                    |            |                                       |              |  |  |
|   |  |                                |                    |   |                    |            |                                       |              |  |  |
|   |  |                                |                    |   |                    |            |                                       |              |  |  |
|   |  |                                |                    |   |                    |            |                                       |              |  |  |
| Paramete  |  | e of Reporting Y<br>We         | ear Ana<br>t Weigh |   | nary Table         |            | Dry Weig                              | Iht          |  |  |
| pH<br>Total Solids Content                            |  |                                | SL<br>%            | J                                       |                    |            |                                       |              |  |  |
| Volatile Solids Content                               |  |                                | %                  |   |                    |            |                                       |              |  |  |
| Total Potassium Total Phosphorous                     |  |                                | ppr<br>ppr         |   |                    | ppm<br>ppm |                                       |              |  |  |
| Total Kjeldahl Nitrogen                               |  |                                | ppr                | n                                       |                    |            | pr                                    | om           |  |  |
| Ammonium Nitrogen (NH₄-N)<br>Nitrate Nitrogen (NO₃-N) |  |                                | ppr<br>mg/         |   |                    |            |                                       | om<br>J/kg   |  |  |
| Arsenic   |  |                                | mg                 | /L                                      |                    |            | mg                                    | j/kg         |  |  |
| Cadmium<br>Copper                                     |  |                                | mg/<br>mg/         |   |                    |            |                                       | ŋ∕kg<br>ŋ∕kg |  |  |
| Lead  |  |                                | mg                 | /L                                      |                    |            | mg                                    | j/kg         |  |  |
| Mercury<br>Molybdenum                                 |  |                                | mg/<br>mg/         |   |                    |            |                                       | ŋ∕kg<br>ŋ∕kg |  |  |
| Nickel  |  |                                | mg/                |   |                    |            |                                       | j/kg         |  |  |

| Selenium   |   | mg/L  |  | mg/kg                                       |  |  |
|--|---|---|--|---|--|--|
| Zinc<br>Other:   |   | mg/L<br>mg/L  |  | mg/kg<br>mg/kg                              |  |  |
| Other:   |   | mg/L  |  | mg/kg                                       |  |  |
| Other:   |   | mg/L  |  | mg/kg                                       |  |  |
| Attachment 3. Submit a copy of the actual lab  | oratory analysis sheets.  |   |  |   |  |  |
| What Class are the biosolids?  |   | Class A   | Class B  |   |  |  |
| Alternative used to me   | et Class A or Class B   | pathogen reduction pure   | suant to 40                                    | CFR 503.32                                  |  |  |
| Class A Alternatives   |   |   | Class B Al                                     | ternatives                                  |  |  |
| Biosolids have been tested for: <pre>             Alternative 1: Monitoring of fecal coliform as the geometric meet             salmonella             Alternative 1: Thermally treated biosolids             Alternative 2: Biosolids treated in a high pH-high temperature             process             Alternative 3: Biosolids treated in other processes that meet             enteric virus and helminth ova criteria             Alternative 4: Biosolids treated in unknown processes that meet             enteric virus and helminth ova criteria             Alternative 5: Use of a Process to Further Reduce Pathogens             (a) Composting             (b) Heat drying             (c) Heat treatment             (d) Thermophilic aerobic digestion             (e) Beta ray irradiation             (f) Gamma ray irradiation             (g) Pasteurization             (g) Pasteurization             Alternative 6: Use of a process equivalent to a Process to             Further Reduce Pathogens.             Identify:               Alternative 6: Use of a process equivalent to a Process to</pre>   |   |   |  |   |  |  |
| Ontion used to a   | meet vector attraction  | reduction requirement of  | of 40 CER 5                                    | 03 32                                       |  |  |
| In-plant options:         □ Option 1: 38 percent reduction in volatile so         □ Full mass balance equation         □ Approximate mass balance equation         □ Van Kleeck equation         □ Volatile solids loss across all sewat         □ Option 2: Bench-scale anaerobic digestion for         □ Option 3: Bench-scale aerobic digestion for         □ Option 4: SOUR test at 20 degrees Celsius         □ Option 5: Aerobic treatment for at least 14 d         □ Option 6: Alkali addition to raise pH to at leas         greater than or equal to 11.5 for 22 additior         □ Option 7: Drying with no unstabilized (primation for the schement of the | lids content.<br>on<br>age sludge treatment pro<br>or 40 additional days at<br>30 additional days at 20<br>(only for material with le<br>ays over 40 degrees Ce<br>ist 12 at 25 degrees Cel<br>al hours<br>ry) solids to at least 75% | ocesses<br>30 degrees Celsius to 37<br>degrees Celsius<br>ss than 2 percent solids v<br>elsius with an average ten<br>sius, maintain a pH great<br>6 solids | ′ degrees Ce<br>with no diluti<br>nperature of | elsius<br>ion)<br>i over 45 degrees Celsius |  |  |
| Site management options:<br>Option 9: Injection with no biosolids present<br>pathogen reduction)<br>Option 10: Incorporation within 6 hours of ap  | oplication (Class A bioso   | lids only- incorporation w  |  | s of pathogen reduction)                    |  |  |
| Did any non-compliance with 40 CFR 503 or<br>45 occur during this reporting period?  | 401 KAK Chapter   | Yes.     No       If yes, provide a description of the non-compliance(s) and remedial actions taken as Attachment 4.     No                                 |  | L] NO                                       |  |  |
|  | 4. Laborato   | ry Information  |  |   |  |  |
| Name of Testing Laboratory:  |   |   |  |   |  |  |
|  |   |   |  |   |  |  |
| Address:   |   |   |  |   |  |  |

Phone Number: ( ) -

| 5. Biosolids Application Summary for Reporting Year |                               |                          |                           |  |  |  |  |  |  |  |
|---|-------------------------------|--------------------------|---------------------------|--|--|--|--|--|--|--|
|   |                               |                          |                           |  |  |  |  |  |  |  |
| Agency Interest Number for Permit                   | itee:                         |                          |                           |  |  |  |  |  |  |  |
|   | Grand Total Biosolids Applied | Total Amount Per Hectare | Approved Rate Per Hectare |  |  |  |  |  |  |  |
| Subplot Number                                      | Dry Metric Tons               | Dry Metric Tons          | Dry Metric Tons           |  |  |  |  |  |  |  |
|   |                               |                          |                           |  |  |  |  |  |  |  |
|   |                               |                          |                           |  |  |  |  |  |  |  |
|   |                               |                          |                           |  |  |  |  |  |  |  |
|   |                               |                          |                           |  |  |  |  |  |  |  |
|   |                               |                          |                           |  |  |  |  |  |  |  |
|   |                               |                          |                           |  |  |  |  |  |  |  |
|   |                               |                          |                           |  |  |  |  |  |  |  |
|   |                               |                          |                           |  |  |  |  |  |  |  |
|   |                               |                          |                           |  |  |  |  |  |  |  |
|   |                               |                          |                           |  |  |  |  |  |  |  |
|   |                               |                          |                           |  |  |  |  |  |  |  |
|   |                               |                          |                           |  |  |  |  |  |  |  |
|   |                               |                          |                           |  |  |  |  |  |  |  |
|   |                               |                          |                           |  |  |  |  |  |  |  |
|   |                               |                          |                           |  |  |  |  |  |  |  |
|   |                               |                          |                           |  |  |  |  |  |  |  |
|   |                               |                          |                           |  |  |  |  |  |  |  |
|   |                               |                          |                           |  |  |  |  |  |  |  |
|   |                               |                          |                           |  |  |  |  |  |  |  |
|   |                               |                          |                           |  |  |  |  |  |  |  |
|   |                               |                          |                           |  |  |  |  |  |  |  |
|   |                               |                          |                           |  |  |  |  |  |  |  |
|   |                               |                          |                           |  |  |  |  |  |  |  |
|   |                               |                          |                           |  |  |  |  |  |  |  |

| 6. Land Application - Application Log Daily Totals |                |                       |                |                         |                  |  |  |
|--|----------------|-----------------------|----------------|-------------------------|------------------|--|--|
| Biosolids Generator(s):                            |                | S                     | ubplot Number: |                         |                  |  |  |
| Subplot size in Hectare                            | s:             | Monitoring Year:      |                | Agency Interest Number: |                  |  |  |
| Date of Application                                | Application Qu | antity in Metric tons | Applier's I    | Initials                | Date of Analysis |  |  |
|  |                |                       |                |                         |                  |  |  |
|  |                |                       |                |                         |                  |  |  |
|  |                |                       |                |                         |                  |  |  |
|  |                |                       |                |                         |                  |  |  |
|  |                |                       |                |                         |                  |  |  |
|  |                |                       |                |                         |                  |  |  |
|  |                |                       |                |                         |                  |  |  |
|  |                |                       |                |                         |                  |  |  |
|  |                |                       |                |                         |                  |  |  |
|  |                |                       |                |                         |                  |  |  |
|  |                |                       |                |                         |                  |  |  |
|  |                |                       |                |                         |                  |  |  |
|  |                |                       |                |                         |                  |  |  |
|  |                |                       |                |                         |                  |  |  |
|  |                |                       |                |                         |                  |  |  |
|  |                |                       |                |                         |                  |  |  |
|  |                |                       |                |                         |                  |  |  |
|  |                |                       |                |                         |                  |  |  |
|  |                |                       |                |                         |                  |  |  |
|  |                |                       |                |                         |                  |  |  |

| 7. Residual Nitrogen Worksheet<br>Table 1   |                                       |                               |                  |                   |             |           |  |
|---|---------------------------------------|-------------------------------|------------------|-------------------|-------------|-----------|--|
|   |                                       | Org                           | anic Nitrogen C  | ontent of Bioso   | lids        |           |  |
|   | 2.0                                   | 2.5                           | 3.0              | 3.2               | 4.0         | 4.5       |  |
| Number of years since last application of biosolids   |                                       | Pounds of                     | N released per L | JS ton of biosol  | ids applied |           |  |
| 1   | 1.0                                   | 1.2                           | 1.4              | 1.7               | 1.9         | 2.2       |  |
| 2   | 0.9                                   | 1.2                           | 1.4              | 1.6               | 1.8         | 2.1       |  |
| 3   | 0.9                                   | 1.1                           | 1.3              | 1.5               | 1.7         | 2.0       |  |
| *Calci  | lations should b                      | be done for each              | subplot which ha | s received biosol | ids*        |           |  |
| Two years ago:         Lbs. of Nitrogen release        x=R         Three years ago:         Lbs. of Nitrogen release        x=R | esidual N (two y<br>d per ton of bios | rears)<br>solids x tons of bi |                  |                   |             |           |  |
| Total Residual Nitrogen:<br>Residual N (one year) + Residual<br>++=_<br>Note: To calculate Residual Nit                         | = Total Re                            | esidual Nitrogen              |                  | -                 |             | from each |  |
| year. Refer to your previous an   |                                       |                               | gun              |                   |             |           |  |

| 8.  | Worksheet for Cal                     | culating A                  | pplication Rate          | 6          |                         |
|---|---------------------------------------|-----------------------------|--------------------------|------------|-------------------------|
| Subplot Number:   |                                       | Crop:                       |                          |            |                         |
| Biosolids C   | omposition (Paran                     | neter in pp                 | m or mg/kg ÷ 1           | 0,000 = %) |                         |
| Nutrient  | Amount in ppm<br>or mg/kg             | ÷                           | 10,000                   | =          | %                       |
| Total Kjeldahl Nitrogen (TKN)   |                                       | ÷                           | 10,000                   | =          |                         |
| Ammonium Nitrogen (NH4-N)   |                                       | ÷                           | 10,000                   | =          |                         |
| Nitrate Nitrogen (NO3-N)  |                                       | ÷                           | 10,000                   | =          |                         |
| Total Phosphorus  |                                       | ÷                           | 10,000                   | =          |                         |
| Total Potassium   |                                       | ÷                           | 10,000                   | =          |                         |
| (a) Incorporation:<br>(%NH4Nx20) + (%NO3Nx20) + (%<br>(x20) + (x20) + (<br>(b) Surface Application:<br>(%NH4Nx10) + (%NO3Nx20) + (%<br>(x10) + (x20) + () | _x4) = lbs. a<br>%available organic N | vailable N/<br>V x 4) = Ibs | ton<br>. available N/ton |            |                         |
| 3. Residual Nitrogen (N):<br>(Calculated Residual N by utilizing the form   | ulas found on the R                   | esidual N v                 | vorksheet)               |            |                         |
| 4. Annual Application Rate:<br>(a) (Crop N requirement – Residu<br>() ÷ =   | -                                     | vailable N/                 | ton = Dry Tons/a         | cre        |                         |
| (b) 0.44 lbs. of available Cd/acre<br>÷ (x0.002) = I<br>Annual Application Rate: (LOWEF<br>Annual Application Rate =                                      | Dry Tons/acre<br>R of (a) or (b).)    | ample X 0                   | 002) = Dry Tons          | /acre      |                         |
| **Nitrogen Required – (lbs. available N/ton<br>(additional nitrogen may be needed by ferti  |                                       |                             |                          |            | ilizer nitrogen appliec |
| 5. Conversion Formula: Dry Tons to Wet G<br>(Tons of biosolids x 2000) ÷ (8.34  |                                       |                             |                          | re         |                         |
| (x2000) ÷ (8.34x) = _   |                                       |                             | not gallono/de           |            |                         |

| onal Phosphorou  | us and Potassium needed:  |  |
|------------------|---|--|
| (a) Phosphorus   | e (P2O5) in waste:  |  |
| Tons waste/acr   | re (from 4a or 4b) x % P in waste x 45.8 = lbs. P2O5 added/acre     |  |
| xx4              | 45.8 = lbs. P2O5 added/acre   |  |
| (b) Additional P | 2O5 fertilizer needed:  |  |
| Total phosphore  | ous (92O5) needed/acre – P2O5 added from biosolids = lbs. P2O5/acre |  |
| =:               | = lbs. of additional P2O5 needed/acre                               |  |
| *A negative ans  | swer means no additional P2O5 fertilizer is needed.                 |  |
| (c) Potassium (  | K2O) in waste:  |  |
| Tons waste (fro  | om 4a or 4b) /acre x % K in waste x 24 = lbs. K2O added/acre        |  |
| xx2              | 24 = lbs. K2O added/acre  |  |
| (d) Additional K | 20 fertilized needed"   |  |
| Total K2O need   | ded/acre – K2O added from biosolids = lbs. K2O/acre                 |  |
|                  | = lbs. of additional K2O needed/acre                                |  |
| *A negative ans  | swer mean no additional K2O fertilizer is needed.                   |  |

| 9. Certification  |     |            |  |  |  |  |  |  |  |
|---|-----|------------|--|--|--|--|--|--|--|
| "I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance<br>with a system designed to assure the qualified personnel properly gather and evaluate the information submitted. Based on my inquiry<br>of the person or persons directly responsible for gathering the information, the information submitted is to the best of my knowledge<br>and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the<br>possibility of fine and imprisonment for such violation." |     |            |  |  |  |  |  |  |  |
| Name ( <i>Print</i> )   |     | Signature: |  |  |  |  |  |  |  |
| Title/Position:   |     | Date: / /  |  |  |  |  |  |  |  |
| Name of Permittee:  |     |            |  |  |  |  |  |  |  |
| Subscribed and sworn to before me by  |     |            |  |  |  |  |  |  |  |
| Notary public signature   |     |            |  |  |  |  |  |  |  |
| My commission expires   | 1 1 |            |  |  |  |  |  |  |  |

**IMPORTANT NOTE:** All information submitted on this form will be subject to public disclosure to the extent provided by Kentucky law. Persons filing this form may make claims of confidentiality in accordance with 400 KAR 1:060.

|   |                |           | Cumul   | ative P | ollutant Loading  | Rates (C     | PLR)                                |        |   |   |   |
|---|----------------|-----------|---|---------|---|--------------|-------------------------------------|--------|---|---|---|
| Subplot Number:         Subplot latitude and longitude:                           |                |           |   |         |   |              |                                     |        |   |   |   |
| Agency Interes  | t Number for F | ermittee: |   |         | Pe  | ermittee Na  | ame:                                |        |   |   |   |
| Subplot Size in   | Hectares:      |           |   |         | Ap  | oplication r | ate in metric                       | tons/h | ectare:   |   |   |
| Reporting Year  | :              |           |   |         |   |              |                                     |        |   |   |   |
| Regulatory Allowable Calculation for determining cumulative loading CPLR in kg/ha |                |           |   |         |   |              |                                     |        |   |   |   |
| Pollutant   | 100%           | 90%       | Concentration in<br>Class B biosolids<br>in mg/kg (dry<br>weight) | x       | Class B<br>biosolids<br>application ra<br>in metric<br>tons/hectare |              | 0.001<br>(conver<br>sion<br>factor) | +      | Amount of<br>Pollutants<br>Applied Since<br>July 20, 1993<br>in kg/ha | = | Total Amount of<br>Pollutant Applied<br>to Date (kg/ha) |
| Arsenic   | 41             | 37        |   | x       |   | x            | 0.001                               | +      |   | = |   |
| Cadmium   | 39             | 35        |   | x       |   | x            | 0.001                               | +      |   | = |   |
| Copper  | 1,500          | 1,350     |   | x       |   | x            | 0.001                               | +      |   | = |   |
| Lead  | 300            | 270       |   | x       |   | x            | 0.001                               | +      |   | = |   |
| Mercury   | 17             | 15        |   | x       |   | x            | 0.001                               | +      |   | = |   |
| Nickel  | 420            | 378       |   | x       |   | x            | 0.001                               | +      |   | = |   |
| Selenium  | 100            | 90        |   | x       |   | x            | 0.001                               | +      |   | = |   |
| Zinc  | 2,800          | 2,520     |   | x       |   | x            | 0.001                               | +      |   | = |   |

## GENERAL INSTRUCTIONS Annual Biosolids Land Application Report

Instructions provided are for the DEP 4506, Annual Biosolids Land Application Report form. For any questions regarding any section of this form, please call the Division of Waste Management's Solid Waste Branch (SWB). This form must be completed either by typing or by printing legibly with black ink.

If a previous year's report is needed, request a copy by completing an open records request through the Department of Environmental Protection at (502) 564-3999 or <u>EEC.KORA@ky.gov</u>.

All sections of this form must be completed to be accepted by the cabinet. Be sure to include all information for every location permitted, even if this information was previously submitted on previous reports. For any future changes in permit information, an amended application form shall be submitted pursuant to 401 KAR 45:105.

Submit DEP 4506 form via mail to the following address:

## Kentucky Department for Environmental Protection Division of Waste Management Solid Waste Branch 300 Sower Boulevard, Second Floor Frankfort, KY 40601 Phone: (502) 564-6716

Submit DEP 4506 electronically using the eForms portal: <u>https://dep.gateway.ky.gov/eForms/Account/Home.aspx</u>

| Conversion Factors             |                               |  |  |  |  |  |
|--------------------------------|-------------------------------|--|--|--|--|--|
| 1 acre = 0.404686 hectare      | 1 hectare = 2.47105 acres     |  |  |  |  |  |
| 1 pound = 0.453592 kilogram    | 1 kilogram = 2.20462 pounds   |  |  |  |  |  |
| 1 US ton = 0.907185 metric ton | 1 metric ton = 1.10231 US ton |  |  |  |  |  |

| Section | 1. | Permittee Information   |
|---------|----|---|
|         |    | <ul> <li>Agency Interest Number for WWTP: Provide the Agency Interest Number assigned to the wastewater treatment facility that is the biosolids source.</li> <li>Name of WWTP: Provide the name of the wastewater treatment facility that is the source of the biosolids to be land applied. If more than one wastewater treatment plant provides biosolids to this land application site, provide a list of all facilities with their Agency Interest and KPDES numbers as Attachment 1.</li> <li>KPDES Number: Provide the Kentucky Pollutant Discharge Elimination System number assigned to the facility that is the biosolids source.</li> <li>Agency Interest Number for Permittee: Provide the Agency Interest Number for the entity that holds the permit for the land application site.</li> <li>Permittee Name: Provide the name of the entity that is the permittee for the biosolids land application permit as well as the address and contact information for the permittee</li> </ul>   |
| Section | 2. | <ul> <li>Biosolids Management Information- Complete the table for biosolids that were managed in the reporting year.</li> <li>Type of Management: Check the box or boxes that correspond to how biosolids were managed.</li> <li>Quantity: Provide amount of biosolids managed by the method listed in each checked row in either dry metric tons or gallons.</li> <li>% solids: Provide the percent solids result for the biosolids managed using the method of each checked row.</li> </ul>   |
| Section | 3. | <ul> <li>Biosolids Analysis Information <ul> <li>Monitoring frequency: Check the box that corresponds to the required monitoring frequency for biosolids analysis. Refer to the rows for metric tons or US tons to determine the appropriate monitoring frequency.</li> <li>Dates of sampling: Provide the dates when biosolids samples were taken.</li> <li>Average of Reporting Year Analyses Summary Table: Provide the averages of all samples taken in wet and dry weight. Do not complete boxes that are grayed out. If required by facility permit to monitor additional parameters beyond those listed, provide name of parameter in "other" row and enter analysis date in table for the parameter.</li> <li>Attachment 3: Provide the laboratory reports for all required analyses.</li> <li>What Class are the biosolids? Check the box indicated whether the biosolids are Class A or Class B</li> <li>Alternative used to meet Class A or Class B pathogen reduction pursuant to 40 CFR 503.32: Check the box(es) that correspond to the pathogen reduction alternative(s) used. If an equivalent process was used, describe the process.</li> </ul> </li> <li>Option used to meet vector attraction requirement of 40 CFR 503.33: Check the box(es) that correspond to the method used to meet the vector attraction requirement used.</li> </ul> |

|         |     | 401 KAR 45:105  |
|---------|-----|---|
|         |     | • Did any non-compliance with 40 CFR 503 or 401 KAR Chapter 45 occur during this reporting period?<br>Check the box that indicates whether any non-compliance occurred. If yes, provide a description of the non-<br>compliances(s) and remedial actions taken as <b>Attachment 4</b> .   |
| Section | 4.  | <b>Laboratory Information:</b> Provide the name, address, and phone number for the laboratory that analyzed the biosolids samples.  |
| Section | 5.  | Biosolids Application Summary   |
|         |     | Agency Interest Number for Permittee- Provide the Agency Interest number for the biosolids land application site.   |
|         |     | <ul> <li>Grand Total Biosolids Applied- Provide the total amount of biosolids applied for each subplot where biosolids were land applied in the reporting year. Check US tons or gallons to indicate the unit of the amount reported.</li> <li>Total Amount Per Acre- Provide the total amount of biosolids applied per acre for each subplot where biosolids were land applied in the reporting year. Check US tons or gallons to indicate the unit of the amount reported.</li> </ul> |
|         |     | <ul> <li>were land applied in the reporting year. Check US tons or gallons to indicate the unit of the amount reported.</li> <li>Approved Rate Per Acre: Provide the amount in US Tons or Gallons that is allowed to be applied per the approved permit application and permit. Check the box indicating the unit for the amount reported.</li> </ul>   |
| Section | 6.  | Land Application - Application Log Daily Totals- If the land application has more than one subplot, copy this page and provide a copy for each subplot.   |
|         |     | <ul> <li>Biosolids Generator(s): Provide the name of the generator(s) of biosolids that were applied for the subplot.</li> <li>Subplot Number: Provide the identification number for the subplot that received biosolids.</li> </ul>  |
|         |     | Subplot Acreage: Provide the acreage of the subplot   |
|         |     | <ul> <li>Monitoring Year: Provide the year for which this data is supplied.</li> <li>Agency Interest Number: Provide the Agency Interest Number assigned to the biosolids land application permit.</li> </ul>   |
|         |     | <ul> <li>Date of Application: For each day that biosolids were applied to the subplot identified, provide the date.</li> <li>Application Quantity in US tons: Provide the amount of biosolids applied to the subplot on the date identified in US tons.</li> </ul>  |
|         |     | <ul> <li>Applier's Initials: Provide the initials of the person who applied the biosolids. Check the box or boxes that correspond to the type of site where biosolids will be land applied.</li> </ul>  |
|         |     | <ul> <li>Date of Analysis: Provide the date the analysis was done for the biosolids that were land applied.</li> <li>If the land application site has more than one subplot, provide separate log for each subplot as Attachment 5.</li> </ul>  |
| Section | 7.  | <b>Residual Nitrogen Worksheet:</b> Complete the residual nitrogen worksheet using the formulas provided to calculate residual nitrogen for each subplot.   |
| Section | 8.  | Worksheet for Calculating Application Rates: Complete the application rate worksheet for each subplot and crop to determine the nutrients applied.  |
| Section | 9.  | Certification- Complete the certification statement(s) that apply to the type of biosolids management.  |
| Section | 10. | Cumulative Pollutant Loading Rates- Complete the worksheet for each subplot.  |
|         |     | <ul> <li>Subplot Number: Provide the number of the subplot.</li> <li>Subplot latitude and longitude: Provide the latitude and longitude of the subplot.</li> </ul>  |
|         |     | <ul> <li>Agency Interest Number for Permittee: Provide the Agency Interest Number for the biosolids land application site.</li> </ul>   |
|         |     | Permittee Name: Provide the name of the biosolids land application permittee.   |
|         |     | <ul> <li>Subplot Size in Hectares: Provide the size of the subplot in hectares.</li> <li>Application rate in metric tons/hectare: Provide the approved application rate in metric tons/hectare.</li> </ul>  |
|         |     | <ul> <li>Reporting Year: Provide the year for which data are provided.</li> <li>Concentration in Class B biosolids in mg/kg (dry weight): Provide the concentration of each pollutant in million may be high around the weight.</li> </ul>  |
|         |     | <ul> <li>milligrams per kilogram dry weight.</li> <li>Class B biosolids application rate in metric tons/hectare: Provide the approved application rate in metric tons/hectare.</li> </ul>   |
|         |     | <ul> <li>Amount of Pollutants Applied Since July 20, 1993 in kg/ha: Provide the total amount of each pollutant applied to the land application site since July 20, 1993.</li> </ul>   |
|         |     | • <b>Total Amount of Pollutant Applied to Date (kg/ha):</b> Multiply the concentration in mg/kg by the amount in metric tons per hectare and the conversion factor. Add this amount to the amount applied since July 20, 1993 to get the total amount of pollutant applied to date.   |