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

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Frankfort, KY 40601 (502) 564-6716										
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	natarmir	ng Review								
1. Agency Interest Number										
2. Permit Number										
		3. Permittee Information								
Facility Name:		Physical Address:								
City: State:		Zip Code:	Cou	nty:						
Email Address:	Phone N	lumber: () -	Cell Phone Number:							
		4. Generator Information		,						
O		4. Generator information								
Special Waste Source										
KPDES Number ☐ Not applicable										
Quantity of non-biosolids special waste go this year	enerated			Gallons Dry tons						
		5. Special Waste Analysis								
Dates of sampling										
Jatos of Gampling										
Type of sample		☐ Grab ☐ Composite	•							
Waste analysis averages										
		Waste analysis averages	1							
Parameter		Wet Weight		Dry Weight						
рН		Wet Weight SU]	Dry Weight						
pH Total Solids Content		Wet Weight SU %		Dry Weight						
рН		Wet Weight SU %								
pH Total Solids Content Volatile Solids Content Total Potassium		Wet Weight SU % % ppm		ppm						
pH Total Solids Content Volatile Solids Content		Wet Weight SU % % ppm ppm		ppm ppm						
pH Total Solids Content Volatile Solids Content Total Potassium Total Phosphorous		Wet Weight SU % % ppm ppm ppm		ppm						
pH Total Solids Content Volatile Solids Content Total Potassium Total Phosphorous Kjeldahl Nitrogen		Wet Weight SU % % ppm ppm		ppm ppm ppm						
pH Total Solids Content Volatile Solids Content Total Potassium Total Phosphorous Kjeldahl Nitrogen Ammonium Nitrogen (NH4-N)		Wet Weight SU % % ppm ppm ppm ppm		ppm ppm ppm ppm						
pH Total Solids Content Volatile Solids Content Total Potassium Total Phosphorous Kjeldahl Nitrogen Ammonium Nitrogen (NH4-N) Nitrate Nitrogen (NO3-N)		Wet Weight SU % % ppm ppm ppm ppm ppm ppm ppm ppm		ppm ppm ppm ppm ppm ppm						
pH Total Solids Content Volatile Solids Content Total Potassium Total Phosphorous Kjeldahl Nitrogen Ammonium Nitrogen (NH4-N) Nitrate Nitrogen (NO3-N) Cadmium		Wet Weight SU % % ppm ppm ppm ppm ppm ppm ppm mg/L mg/L		ppm ppm ppm ppm mg/kg mg/kg						
pH Total Solids Content Volatile Solids Content Total Potassium Total Phosphorous Kjeldahl Nitrogen Ammonium Nitrogen (NH4-N) Nitrate Nitrogen (NO3-N) Cadmium Copper		Wet Weight SU % % ppm ppm ppm ppm ppm ppm mg/L mg/L mg/L		ppm ppm ppm ppm mg/kg mg/kg mg/kg						
pH Total Solids Content Volatile Solids Content Total Potassium Total Phosphorous Kjeldahl Nitrogen Ammonium Nitrogen (NH4-N) Nitrate Nitrogen (NO3-N) Cadmium Copper Lead		Wet Weight SU % % ppm ppm ppm ppm ppm ppm ppm ppm mg/L mg/L mg/L mg/L		ppm ppm ppm ppm ppm mg/kg mg/kg mg/kg mg/kg mg/kg						
pH Total Solids Content Volatile Solids Content Total Potassium Total Phosphorous Kjeldahl Nitrogen Ammonium Nitrogen (NH4-N) Nitrate Nitrogen (NO3-N) Cadmium Copper Lead Nickel Zinc Chromium		Wet Weight SU % % ppm ppm ppm ppm ppm mg/L mg/L mg/L mg/L mg/L mg/L		ppm ppm ppm ppm mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg						
pH Total Solids Content Volatile Solids Content Total Potassium Total Phosphorous Kjeldahl Nitrogen Ammonium Nitrogen (NH4-N) Nitrate Nitrogen (NO3-N) Cadmium Copper Lead Nickel Zinc		Wet Weight SU % % ppm ppm ppm ppm ppm ppm mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/		ppm ppm ppm ppm mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg						
pH Total Solids Content Volatile Solids Content Total Potassium Total Phosphorous Kjeldahl Nitrogen Ammonium Nitrogen (NH4-N) Nitrate Nitrogen (NO3-N) Cadmium Copper Lead Nickel Zinc Chromium		Wet Weight SU % % ppm ppm ppm ppm ppm mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/		ppm ppm ppm ppm mg/kg						
pH Total Solids Content Volatile Solids Content Total Potassium Total Phosphorous Kjeldahl Nitrogen Ammonium Nitrogen (NH4-N) Nitrate Nitrogen (NO3-N) Cadmium Copper Lead Nickel Zinc Chromium Polychlorinated Biphenyls (PCBs)	s for each s	Wet Weight SU % % ppm ppm ppm ppm ppm mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/		ppm ppm ppm ppm mg/kg						
pH Total Solids Content Volatile Solids Content Total Potassium Total Phosphorous Kjeldahl Nitrogen Ammonium Nitrogen (NH4-N) Nitrate Nitrogen (NO3-N) Cadmium Copper Lead Nickel Zinc Chromium Polychlorinated Biphenyls (PCBs)	s for each s	Wet Weight SU % % ppm ppm ppm ppm ppm mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/		ppm ppm ppm ppm mg/kg						

Phone Number: () -										
	7. Special waste Ap	pplication Summary								
Subplot Number	Grand Total Special Waste Applied (∐Tons or ∏Gallons)	Total Amount Per Acre (⊡Tons or ⊡ Gallons)	Approved Rate Per Acre (⊡Tons or ⊡Gallons)							

8. Landfarming Application Log											
Waste Generator:	Sul	oplot Number:									
Acreage:	Monitoring Year:	Permit Number:									
Date of Application	Application Quantity (tons)	Applier's Initials	Date of Analysis								

9. Metals Concentration Conversion for Dry Special Waste										
Permit Num	ber:		Sub-							
Parameter	Concentration in special waste in mg/kg	(multiply)	Tons of dry special waste applied	Conversion factor (multiply by 0.002)	Pounds of parameter applied					
Cd		X		X 0.002 =						
Cu		X		X 0.002 =						
Pb		X		X 0.002 =						
Ni		X		X 0.002 =						
Zn		X		X 0.002 =						
	Pounds of pa	rameter applied +	: - subplot acreage =	pounds of parameter a	oplied per acre					
D	uplicate this informa	10. Metals Conce tion and provide a	ntration Conversion s Attachment 3 if the	for Liquid Special was re is more than one sour	te ce of dry special waste					
Permit Num	ber:		Sub-	plot number:						
Parameter	Concentration in special waste in mg/L	(multiply)	Gallons of liquid special waste applied divided by 1,000,000	Conversion factor (multiply by 0.002)	Pounds of parameter applied					
Cd		X		X 8.34 =						
Cu		X		X 8.34 =						
Pb		X		X 8.34 =						
Ni		X		X 8.34 =						
Zn		X		X 8.34 =						
	Pounds of pa	rameter applied ÷	: - subplot acreage = :	pounds of parameter a	oplied per acre					

11. Residual Nitrogen Worksheet											
	Organic Nitrogen Content of Special Waste										
	2.0	2.5	3.0	3.2	4.0	4.5					
Number of years since last application of special waste		Pounds of N released per US ton of Special Waste 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					

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						
Calculations should be done for each sub-plot which has received special waste												
One year ago:												
Lbs. of Nitrogen release	ed per ton of spe	ecial waste x tons	of special waste	applied = Residu	ıal N (one year)							
x=R	esidual N (one y	year)										
_												
Two years ago:		:	-f :- t-	li-d - Did-	! N! /b >							
Lbs. of Nitrogen release			or special waste	applied = Residu	iai iv (two years)							
x=R	esidual N (two y	(ears)										
Three years ago:												
Lbs. of Nitrogen release	d per ton of spe	ecial waste x tons	of special waste	applied = Residu	ıal N (three years))						
x=R	esidual N (three	e years)										
Total Residual Nitrogen:												
Residual N (one year) + Residual	N (two years) +	Residual N (thre	ee years) = Total	Residual Nitroge	n							
++=	= Total R	esidual Nitrogen										
Natar Ta anlandata Danishad Nit	6	0 1 0	-4 6: al 4la a a una u	.::								
Note: To calculate Residual Nit each year. Refer to your previo		-	st tina the organ	nc mtrogen com	terit of special W	aste trom						
each year. Refer to your previo	us aiiiiuai revi	CVV.										

12. Worksheet	for Calculating Application Rates
Subplot Number:	Crop:
Special Waste Comp	position (Parameter in ppm ÷ 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 = %
1. Percent Available Organic Nitrogen = (%TKN) – (%N	H4-N) – (%NO3-N)
= () - () - ()	
Available Nitrogen in waste: (a) Incorporation:	
(%NH4Nx20) + (%NO3Nx20) + (%available o	rganic N x 4) = lbs. available N/ton
(x20) + (x20) + (x4) =	lbs. available N/ton
(b) Surface Application: (%NH4Nx10) + (%NO3Nx20) + (%available o	rganic N x 4) = lbs. available N/ton
(x10) + (x20) + (x4) =	lbs. available N/ton
Residual Nitrogen (N): (Calculated Residual N by utilizing the formulas found of the formulas formulas found of the form	on the Residual N worksheet)
Annual Application Rate:	
(a) (Crop N requirement – Residual N) / Acre	·
(b) 0.44 lbs. of available Cd/acre ÷ (mg./kg of	Cd in sample X 0.002) = Dry Tons/acre
÷ (x0.002) = Dry Tons/ac	e
Annual Application Rate: (LOWER of (a) or (b	
Annual Application Rate =Dry Tons/ac	ife
5. Conversion Formula: Dry Tons to Wet Gallons	
(Tons of special waste x 2000) ÷ (8.34x% soli	ds in the special waste/100) = wet gallons/acre
(x2000) ÷ (8.34x) = wet ga	allons/acre
Additional Phosphorous and Potassium needed:	
(a) Phosphorus (P2O5) in waste:	
Tons waste/acre (from 4a or 4b) x % P in was	te x 45.8 = lbs. P2O5 added/acre
xx45.8 = lbs. P2O5 added	/acre

	(b) Additional P2O5 fertilizer needed:
	Total phosphorous (9205) needed/acre – P205 added from special waste = lbs. P205/acre
	= lbs. of additional P2O5 needed/acre
	*A negative answer means no additional P2O5 fertilizer is needed.
	(c) Potassium (K2O) in waste:
	Tons waste (from 4a or 4b) /acre x % K in waste x 24 = lbs. K2O added/acre
1	xx24 = lbs. K2O added/acre
	(d) Additional K2O fertilized needed"
	Total K2O needed/acre – K2O added from special waste = lbs. K2O/acre
	= lbs. of additional K2O needed/acre
:	*A negative answer mean no additional K2O fertilizer is needed.
	n Required – (lbs. available N/ton X maximum tons waste to be applied/acre) = lbs. of additional fertilizer nitrogen applied. Il nitrogen may be needed by fertilization if the annual application rate is limited by cadmium)
7. Maximu	um Amount of Waste Allowable per Acre:
	Obtain maximum amount of Pb, Cd, Cu, Ni, and Zn allowed based on the Cation Exchange Capacity of the soil from 401 KAR 45:100 Section 10(23). If special waste has previously been applied, calculate the remaining lifetime limits by subtracting the total amount of each metal applied from the maximum allowed found in 401 KAR 45:100 Section 10(23).
	Cadmium (Cd):
	Maximum Cd allowable/acre ÷ (dry mg/kg of Cd in sample x 0.002) = tons waste/acre
	÷ (x0.002) = tons waste/acre
1	Copper (Cu):
	Maximum Cu allowable/acre ÷ (dry mg/kg of Cu in sample x 0.002) = tons waste/acre
	÷ (x0.002) = tons waste/acre
	Lead (Pb):
	Maximum Pb allowable/acre ÷ (dry mg/kg of Pb in sample x 0.002) = tons waste/acre
	÷ (x0.002) = tons waste/acre
	Nickel (Ni):
	Maximum Ni allowable/acre ÷ (dry mg/kg of Ni in sample x 0.002) = tons waste/acre
	÷ (x0.002) = tons waste/acre
;	Zinc (Zn):
	Maximum Zn allowable/acre ÷ (dry mg/kg of Zn in sample x 0.002) = tons waste/acre
-	÷ (x0.002) = tons waste/acre
	Life in Number of Years = Lowest amount from Item 7 in tons/acre ÷ tons special waste applied/acre/year
	+ = years
8. Numbe	r of years that waste can be applied:

		13. Certification
 404 1/4 0	47-400 0 11 0/4)	 - ! ((1)

Pursuant to 401 KAR 47:160 Section 6(4), a person with signature authority such as a sole proprietor, owner, partner, plant manager, LLC member, mayor, county judge executive or other authorized official must sign this certification statement. NOTE: Consultants may not sign the following certification statement.

"I certify under penalty of law that this documentation 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 my inquiry of the person or persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for such violations."

Name of Applicant, e.g., Corporation or Unit of Government:	
Name of Responsible Official:	Signature:
Title:	Date: / /

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.

14. Nitrogen Balance Sheet												
Subplot Number: Permitee Name:												
Permit Number:				Acreage:								
Reporting Year:												
(1) Date From-To	(2) Grand Total Special waste Applied (Dry Ton)	(3) Special waste Quantity Applied (Dry Ton / Acre)	(4) Special waste Nitrogen Applied (Lbs./acre From, 2a or 2b on Worksheet for Calculating Application Rates Column #3)	(5) Fertilizer Nitrogen Applied Lbs./acre	(6) Residual Nitrogen Remaining Lbs./acre (From Previous Residual Nitrogen Worksheet Years 1 and 2)	(7) Total Nitrogen Available Lbs./acre (the sum of columns 4, 5, & 6)	(8) Crop(s) Grown	(9) Yield Tons/acre or by/acre	(10) Date(s) Harvested or Grazed	(11) Nitrogen Removed Lbs./acre	(12) Nitrogen Remaining Lbs./acre (Column #7 minus Column #11)	

	15. Metals Historical - Lifetime														
Subplot Number:							Permittee Name:								
Permit Number	er:								Subplot A	creage:					
(1) Year	(2) Special Waste	(3) Total	(4) Amount	(F	Tota rom Metal	I lbs. Appl Is Convers	ied sion Sheet	t)	(Divid	Rate de total lbs	in lbs./ac s. by sub-p		ge)	(15) Soil pH	(16) Lime
	Source		ste Tons lied	(5) Cd	(6) Cu	(7) Pb	(8) Ni	(9) Zn	(10) Cd	(11) Cu	(12) Pb	(13) Ni	(14) Zn	(from annual soil analysis)	Applied (tons/ acre/ year)
Grand Total															

						16. I	Metals Hi	storical -	Annual						
Subplot Nun	mber:									Perm	it Holder l	Name:			
Permit Num	ber:									Subp	lot Acrea	ge:			
Reporting Y	ear:														
(1) Date	(2) Special	(3) Total	(4) Tons of special wastes applied per Acre	Total lbs. Applied (From Metals Conversion Sheet)					Rate in lbs./acre (Divide total lbs. by sub-plot acreage)				(15) Soil pH	(16) Lime	
	Waste Source	tons Special waste Applied		(5) Cd	(6) Cu	(7) Pb	(8) Ni	(9) Zn	(10) Cd	(11) Cu	(12) Pb	(13) Ni	(14) Zn	soil (i	Applied (tons/ acre/ year)
Grand Total															

GENERAL INSTRUCTIONS Annual Landfarming Review

Instructions provided are for the DEP 7048, Annual Landfarming Review form. This form is for annual reporting for landfarming of non-biosolids special waste. For annual reporting for biosolids landfarming, complete form DEP 4506 Annual Biosolids Landfarming Report. 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 EEC.KORA@ky.gov.

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 7048 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 7048 electronically using the eForms portal: https://dep.gateway.ky.gov/eForms/Account/Home.aspx

Section	1.	Agency Interest Number: Provide the Agency Interest number assigned to the landfarm facility.
Section	2.	Permit Number: Provide the solid waste permit number assigned to the facility. This number is formatted "sw000-0000".
Section	3.	Permittee Information: Provide the name of the landfarming facility, the physical address, and contact information for the landfarming facility.
Section	4.	 Special waste source: Provide the name of the facility (or facilities) that is the source of special waste to be land applied. KPDES Number: If the generating facility has a Kentucky Pollutant Discharge Elimination System Number, provide it. Otherwise, check the box for "not applicable". Quantity of non-biosolids special waste generated this year: Provide the amount of non-biosolids special waste generated by the special waste source facility and indicate the units in either gallons or dry tons by checking the appropriate box.
Section	5.	 Special Waste Analysis Dates of sampling: Enter the dates on which samples of special waste were taken for analysis. Type of sample: Indicate whether the samples were grab samples or composite samples. Waste analysis averages: Enter the averages of the samples taken for the parameters listed. Provide results in wet and dry weight as indicated, with the exception that dry weight is not entered for pH, total solids content, and volatile solids content. Attachment 1. Provide the laboratory result sheets for each of the waste analyses conducted in the reporting year. Attachment 2. Provide the results of the soil analyses for each subplot in accordance with the soil monitoring plan in the approved permit application.
Section	6.	Laboratory Information: Provide the name, address, and phone number for the laboratory that analyzed the special waste samples.
Section	7.	 Special Waste Application Summary: Complete the table summarizing the reporting year's land application of special waste for each permitted subplot Subplot Number- Provide the identifying number for each subplot at the landfarm. Grand Total Special Waste Applied- Provide the total amount of special waste applied for each subplot. Check tons or gallons to indicate the unit of the amount reported. Total Amount Per Acre- Provide the total amount of special wastes applied per acre for each subplot. Check tons or gallons to indicate the unit of the amount reported. Approved Rate Per Acre: Provide the amount in 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.
Section	8.	 Landfarming Application Log: Begin a worksheet for each subplot by special waste generator source on the date the special waste is submitted for analysis at the beginning of the monitoring year. Waste Generator: Provide the name of the generator of special wastes that was applied for the subplot. Subplot Number: Provide the identification number for the subplot that received biosolids. Subplot Acreage: Provide the acreage of the subplot Monitoring Year: Provide the year for which this data is supplied. Permit Number: Provide the permit number assigned to the landfarm permit.

	 Date of Application: For each day that special waste was applied to the subplot identified, provide the date. Application Quantity in tons: Provide the amount of special waste applied to the subplot on the date identified in US tons.
	 Applier's Initials: Provide the initials of the person who applied the special waste. Date of Analysis: Provide the date the analysis was done for the special waste that were land applied on that date.
	If the landfarm has more than one subplot, provide separate log for each subplot as Attachment 8A.
9.	Metals Concentration Conversion for Dry Special Waste: Complete the provided calculations for each subplot that received dry special waste. If more than one source, duplicate the information and provide as Attachment 9A. • Permit Number: Provide the assigned permit number for the landfarm. • Subplot Number: Provide the identifying number for the subplot.
	 Concentration in special waste in mg/kg: For each listed parameter (cadmium, copper, lead, nickel, and zinc) provide the average concentration in milligrams per kilogram (mg/kg). Tons of dry special waste applied: Enter the tonnage of dry special waste applied to the subplot. Pounds of parameter applied: Multiply the concentration in mg/kg by the tonnage of special waste applied and
	then multiply the result by the conversion factor of 0.002 to get the result in pounds of parameter applied.
10.	Metals Concentration Conversion for Wet Special Waste: Complete the provided calculations for each subplot that received wet special waste. If more than one source, duplicate the information and provide as Attachment 10A. • Permit Number: Provide the assigned permit number for the landfarm. • Subplot Number: Provide the identifying number for the subplot.
	 Concentration in special waste in mg/L: For each listed parameter (cadmium, copper, lead, nickel, and zinc) provide the average concentration in milligrams per liter (mg/L). Gallons of liquid special waste applied divided by 1,000,000: Take the gallons of special waste applied to the subplot and divide that amount by 1,000,000. Enter the result in this column for each parameter. Pounds of parameter applied: Multiply the concentration in mg/L by the gallons of special waste applied (enter in the second column) and then multiply the result by the conversion factor of 8.34 to get the result in pounds of parameter applied.
11.	Residual Nitrogen Worksheet: Complete the residual nitrogen worksheet using the formulas provided to calculate residual nitrogen for each subplot. Duplicate the pages if there is more than one subplot. Complete this form even if it is the first year's application. Use the residual nitrogen calculated on Section 12. Worksheet for Calculating Application Rates, but not on the Section 14. Nitrogen Balance Sheet, if it is the first year. If it not the first application year, refer to previous years' reports for residual nitrogen amounts.
12.	Worksheet for Calculating Application Rates: Complete the application rate worksheet for each subplot and crop to determine the nutrients applied.
13.	Certification Statement: Only a person with signature authority for the applicant may complete the certification statement. The certification statement must be notarized. A new certification statement shall accompany each submittal in the case of a notice of deficiency.
14.	Nitrogen Balance Sheet: Complete the worksheet for each subplot in order to document nitrogen applied and removed. • Subplot Number: Provide the number of the subplot. • Permittee Name: Provide the name of the landfarm permittee. • Permit Number: Provide the assigned permit number. • Subplot Acreage: Provide the size of the subplot in hectares. • Reporting Year: Provide the year for which data are provided. • Columns 1-12: Provide the requested information for each interval at which special waste or nitrogen fertilizer was applied to the subplot.
15.	Metals Historical – Lifetime: Provide the cumulative amount of waste applied to the subplot for the previous years of operation. Subplot Number: Provide the number of the subplot. Permittee Name: Provide the name of the landfarm permittee. Permit Number: Provide the assigned permit number. Subplot Acreage: Provide the size of the subplot in hectares. Columns 1-16: Provide the requested information for each year permitted. For years in which no special waste was applied, report zero for the appropriate columns. Grand Total: Provide the sum for each column in the row provided.
16.	 Metals Historical – Annual: Provide the amount of waste applied to the subplot in the operating year for this report. Subplot Number: Provide the number of the subplot. Permittee Name: Provide the name of the landfarm permittee. Permit Number: Provide the assigned permit number. Subplot Acreage: Provide the size of the subplot in hectares. Reporting Year: Provide the year for which data are provided. Columns 1-16: Provide the requested information for each interval at which special waste or nitrogen fertilizer was applied to the subplot.
	10. 11. 12. 13.