

State of Oregon Department of Environmental Quality 700 NE Multnomah St. Suite 600, Portland, OR 97232

DEQ use only

Wastewater Solids and Biosolids Annual Report Part I: Wastewater solids production and disposition

Ра	rt i: Must be completed by all domes	stic waste	water facilities.				
	A. F	REPORTIN	NG PERIOD				
1.	This report is for biosolids produced during the	ne calendar y	vear:				
	B. F	PERMIT IN	FORMATION				
	Permit Type (select one): NPDES or N	WPCF	DEQ File No.:				
1.	DEQ Permit No.:]	EPA Permit No.:				
	C. FA	ACILITY IN	FORMATION				
1.	Legal name of facility:						
	Physical address						
2.	Street Address:						
	City:	State:		Zip code:			
	Mailing address Same as physical address.						
3.	Mailing Address:						
	City:	State:		Zip code:			
4.	Facility Type (check all that apply)						
	Minor or Tier 2 facility (design flow less t	Lagoon treatment system					
	D. CC	ONTACT II	NFORMATION				
	Responsible official						
	Name:		Title:	_			
1.	Email Address:		Telephone:				
	Mailing Address:						
	City:		State:	Zip code:			
	Biosolids contact Same as responsible of	ficial	T				
	Name:		Title:				
2.	Email Address:		Telephone:				
	Mailing Address:						
	City:		State:	Zip code:			

		E. WASTEWA	TER SOL	IDS RECE	FIVED					
	Please indicate if you receive					es for proces	ssina.			
	Did you receive wastewater solids or hauled waste from other facilities? Yes No If you received unprocessed wastewater solids, please list sources below. All weight values should be reported in US tons. (US ton= 2,000 lbs) Attach additional pages if necessary.									
	Name Typ	Quantity	Quantity Units (choose one)			% solids				
1.		septage sludge			wet tons	dry tons				
		eptage sludge		gallons	wet tons	dry tons				
		eptage sludge		gallons	wet tons	dry tons				
		eptage sludge		gallons	wet tons	dry tons				
		eptage sludge		gallons	wet tons	dry tons				
	F. WASTI	EWATER SOLI	DS TREA	TMENT P	ROCESSES					
	F. WASTEWATER SOLIDS TREATMENT PROCESSES Please indicate the solids treatment processes used at your facility (mark all that apply)									
	Thickening technology	Stabili	ization Tec	hnology	Dew	Dewatering technology				
	Gravity	Aerobic of	Aerobic digestion			SS				
	☐ DAF		ic digestion	I						
1.	Centrifugation		Lime stabilization			Screw press				
1.	Other:	ATAD			Centrifu	•				
		Compost	ıng		☐ Vacuum					
		Thermal			Drying b					
		Lagoon Other:			☐ Heat dry ☐ Other:	ing				
	Drv tons = we	t tons x %solids	Dry to	$as = \frac{(gal \ x \%s)}{(gal \ x \%s)}$	$\frac{\text{olids } x 8.34)}{100} x 0.0$	005				
	Dry tons – we	t tons x /030mus	Diyto	1	100	003				
	G.	WASTEWATE	R SOLID	S DISPOS	ITION					
	Please indicate how wastewa units. All weight values should					specify repo	rting			
	Disposition of wastewater solids			Qu	antity (choose	one)	% solids			
1.	Treated and land applied, sold biosolids or biosolids-derived			Gallons	Wet tons	Dry Tons				
2.	Sent to landfill. Name:			Gallons	Wet tons	Dry Tons				
3.	Sent to another permitted facil Name:	ity for treatment.		Gallons	Wet tons	Dry Tons				
4.	Long-term storage at treatmen drying bed, etc.)*	t facility (e.g., lago	oon,	Gallons	Wet tons	Dry Tons				
_	Other.			Gallons	Wet tons	Dry Tons				

^{*} If you operate a lagoon system and do not have accurate data on the quantity of solids in your lagoon, please check the box for long-term storage, but you may leave the quantity and other information blank.

	H. LAGOON SYSTEM OPERATION and MAINTENANCE
	The following section is required for facilities that operate wastewater treatment lagoons.
1.	A survey of wastewater solids have been completed within the last year: Y N
2.	In what year were solids last removed from the lagoon:
3.	When do you estimate the next solids removal? Select only one of the following: Within the next calendar year Within the next 5 years Greater than 5 years from present
	I. SIGNATURE OF LEGALLY AUTHORIZED REPRESENTATIVE
	I certify that the information in this report is true and correct to the best of my knowledge and belief. Information and records used or referenced with this report will be maintained and made available to the Oregon Department of Environmental Quality on request. Seth Kelly
	Signature Title Date
	Print Name:

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Wastewater Solids and Biosolids Annual Report Part II: Biosolids production and quality

Part II: Must be completed by facilities that produced Class A or Class B biosolids for land application, or sold or gave away biosolids derived products for distribution and marketing.

	J. BIOSOLIDS PRODUCTION and DISPO	SITION						
	Please specify quantity (in dry US tons) of finished biosolids stored or pr	oduced at your fac	ility.					
1. I		Class A	Class B					
1.	Produced during reporting period							
	Total biosolids production							
	Please indicate how finished biosolids were managed (i.e., land applied,	sold, stored, or oth	er).					
2.		Class A	Class B					
	Land applied in bulk to agricultural land							
	Land applied in bulk to forest land							
	Land applied in bulk to reclamation site							
	Land applied in bulk to a public contact site (e.g., park, roadside golf course)							
۷.	Sold or given away as feedstock for a biosolids-derived product							
2.	Sold or given away in bags or other containers							
	Carried-over into next year (i.e., onsite storage)							
	Sent to landfill							
	Other, please specify:							
	Total biosolids disposition (add above lines)							

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v. 10-26-2018

	K. BIOSOLIDS SAMPLING										
	Select your facility's minimum regulatory monitoring frequency (select only one box):										
1.	Monitoring frequ	iency	Once per year	four times per year) Once per 60 (six times per year)							
	Metric tons		<290	290 > 1,500	1,500 > 15,000	≥ 1:	5,000				
	US Tons		<319	319 > 1,650	1,650 > 16,500	≥ 1	6,500				
	Provide details or	n compliance	sampling.								
	Sample type - Annual			Processes		Samplin	g date				
	- Quarterly - 60 days - Monthly	Class		Pollutants	Nutrients						
		☐ A ☐ B	Aerobic dig. Anaerobic dig. Compost	Air-dried [Heat dried [Lagoon [Alkaline stabil. Soil prod/blend Other						
		□ A □ B	Aerobic dig. Anaerobic dig. Compost	☐ Air-dried ☐ Heat dried ☐ Lagoon ☐	Alkaline stabil. Soil prod/blend Other						
		□ A □ B	Aerobic dig. Anaerobic dig. Compost	☐ Air-dried ☐ Heat dried ☐ Lagoon ☐	Alkaline stabil. Soil prod/blend Other						
		□ A □ B	Aerobic dig. Anaerobic dig. Compost	Air-dried Heat dried Lagoon	Alkaline stabil. Soil prod/blend Other						
2.		□ A □ B	☐ Aerobic dig. ☐ Anaerobic dig. ☐ Compost	Air-dried Heat dried Lagoon	Alkaline stabil. Soil prod/blend Other						
		□ A □ B	Aerobic dig. Anaerobic dig. Compost	Air-dried Heat dried Lagoon	Alkaline stabil. Soil prod/blend Other						
		□ A □ B	Aerobic dig. Anaerobic dig. Compost	Air-dried [Heat dried [Lagoon [Alkaline stabil. Soil prod/blend Other						
		□ A □ B	Aerobic dig. Anaerobic dig. Compost	Air-dried [Heat dried [Lagoon [Alkaline stabil. Soil prod/blend Other						
		□ A □ B	Aerobic dig. Anaerobic dig. Compost	Air-dried Heat dried Lagoon	Alkaline stabil. Soil prod/blend Other						
		□ A □ B	☐ Aerobic dig. ☐ Anaerobic dig. ☐ Compost	Air-dried Heat dried Lagoon	Alkaline stabil. Soil prod/blend Other						
		□ A □ B	Aerobic dig. Anaerobic dig. Compost	☐ Air-dried ☐ Heat dried ☐ Lagoon ☐	Alkaline stabil. Soil prod/blend Other						
		☐ A ☐ B	☐ Aerobic dig. ☐ Anaerobic dig. ☐ Compost	Air-dried [Heat dried [Lagoon [Alkaline stabil. Soil prod/blend Other						

	Biosolid Type:	Class A	Class B							
	Sample type	Average Pollutant Concentrations								
	- Annual - Quarterly - 60 days - Monthly	As (mg/kg)	Cd (mg/kg)	Cu (mg/kg)	Pb (mg/kg)	Hg (mg/kg)	Mo (mg/kg)	Ni (mg/kg)	Se (mg/kg)	Zn (mg/kg
-										
1										
	Annual Mean									
	Table 1 ¹ Ceiling conc.	75	85	4300	840	57	75	420	100	7500
	Table 3 ² Pollutant conc.	41	39	1500	300	17	N/A	420	100	2800

¹ 40 CFR § 503.13 Table 1 – Ceiling concentrations. Samples with pollutant concentrations that exceed the Table 1 limits are not eligible for land application and must be disposed by other means.

² 40 CFR § 503.13 Table 3 – Pollutant Concentrations. Samples with pollutant concentrations that exceed the Table 3 limits are subject to cumulative pollutant loading rates in 40 CFR § 503.13 Table 2. Annual and cumulative pollutant additions to land application sites must be submitted with the annual report.

	M. BIOSOLIDS NUTRIENT MONITORING Report nutrient monitoring data from collected samples. Express results in mg/kg (ppm) based on dry weight, except where otherwise noted. Please attach laboratory reports for results only. No lab								
QA/QC.									
Biosolid Type:	Class A	Class B [
Sample type			Avei	age Nutrien	t Concentrat	ions			
- Annual - Quarterly - 60 days - Monthly	TKN (mg/kg)	NO ₃ -N (mg/kg)	NH ₄ -N (mg/kg)	P (mg/kg)	K (mg/kg)	pH (S.U.)	Total solids (%)	F. coli MPN [CFU [
Annual Mean									

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	N. BIOSOLIDS PATHOGEN REDUCT	TON MONITORING and RECORDS
	Identify alternative(s) used to meet Class A or Cl Attach documentation on pathogen reduction.	ass B pathogen reduction (PR): 40 CFR §503.32
	Class A Alternatives	Class B Alternatives
1.	Biosolids have been tested for (select one or both): fecal coliform	 □ Alternative 1: Monitoring of fecal coliform as the geometric mean of the density of fecal coliform of seven representative samples (select option met): □ < 2 million Most Probable Number (MPN) per gram of solids (dry wt. basis) □ < 2 million Colony Forming Units (CFU) per gram of total solids (dry wt. basis) □ Alternative 2: Biosolids treated in one of the Processes to Significantly Reduce Pathogens (PSRP) described below: □ (a) Aerobic digestion □ (b) Air drying □ (c) Anaerobic digestion □ (d) Composting □ (e) Lime stabilization □ Alternative 3: Biosolids treated in a process that is equivalent to a PSRP. Identify:

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		TOR ATTRACTION REDUCTION and RECORDS							
	Identify option(s) used to meet value Attach documentation demonst	vector attraction reduction (VAR): 40 CFR §503.33 rating compliance.							
	In-plant options:								
	Option 1: 38% reduction in volatile solids content. Select method used for determining volatile solids reduction								
	Full mass balance equation	<u> </u>							
	Approximate mass balance equ	action							
	☐ Van Kleeck equation								
	Volatile solids loss across all s	ewage sludge treatment processes							
		ligestion for 40 additional days at 30 °C to 37 °C.							
		estion for 30 additional days at 20 °C.							
1.		for material <2% solids with no dilution.)							
		least 14 days over 40 °C with an average temperature of over 45 °C.							
	_	pH to at least 12 at 25 °C and maintain a pH \geq 12 for 2 hours and a pH \geq 11.5							
	for 22 more hours.								
	Option 7: Drying with <u>no</u> unstabil	ized (primary) solids to at least 75% solids.							
		d (primary) solids to at least 90% solids.							
	Site management options:								
	Option 9: Injection with no biosolids present on land surface 1 hour after injection. (Class A biosolids only:								
	Injection within 8 hours of pathogen reduction.)								
	Option 10: Incorporation within 6 hours of application. (Class A biosolids only: Incorporation within 8 hours of								
	pathogen reduction.)								
	If VAR was met through Option 1, a 38% reduction in volatile solids, report the average reduction percentage found.								
	percentage round.								
	Biosolid Type	Average Volatile Solid Reduction							
2.	Class A								
۷.									
	Class B								
	Class B								
	Class B								
	Class B								
		40 CFR §503 or OAR CHAPTER 340 DIVISION 50							
	P. VIOLATIONS OF	40 CFR §503 or OAR CHAPTER 340 DIVISION 50 OAR Chapter 340 Division 50 occur during the reporting period?							
	P. VIOLATIONS OF Did any violations of 40 CFR §503 or No.	OAR Chapter 340 Division 50 occur during the reporting period?							
	P. VIOLATIONS OF Did any violations of 40 CFR §503 or No. Yes. Provide a detailed description	OAR Chapter 340 Division 50 occur during the reporting period? on of the violation(s) and remedial actions taken to prevent reoccurrences in the							
	P. VIOLATIONS OF Did any violations of 40 CFR §503 or No.	OAR Chapter 340 Division 50 occur during the reporting period? on of the violation(s) and remedial actions taken to prevent reoccurrences in the							
	P. VIOLATIONS OF Did any violations of 40 CFR §503 or No. Yes. Provide a detailed description	OAR Chapter 340 Division 50 occur during the reporting period? on of the violation(s) and remedial actions taken to prevent reoccurrences in the							

	Q. SUMMARY OF PART II ATTACHMENTS
	Information DEQ requests with all annual reports:
1.	☐ Analytical laboratory reports for pollutant monitoring. No lab QA/QC ☐ Analytical laboratory reports for nutrient monitoring. No lab QA/QC
	☐ Documentation to demonstrate compliance with pathogen reduction requirements. ☐ Documentation to demonstrate compliance with vector attraction reduction requirements.
	Information required if pollutants in Section L exceed Table 3 values:
2.	Annual and cumulative pollutant additions to land application sites, if any pollutant concentration exceeds the Table 3 values.
	Optional and supplemental information:
3.	 ☐ Other information on changes to solids handling or land application site management. ☐ Other information on biosolids violations and remedial actions. ☐ Other. Please specify:
	R. SIGNATURE OF LEGALLY AUTHORIZED REPRESENTATIVE
1	I certify, under penalty of law, that the information that will be used to determine compliance with the pathogen requirements in 40 CFR §503.32 (identified in Section P of this report) and the vector attraction reduction requirements in 40 CFR §503.33 (identified in Section Q of this report) was prepared under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate this information. I am aware that there are significant penalties for false certification including the possibility of fine
	and imprisonment.
	Signature Title Date
	Print Name:



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Wastewater Solids and Biosolids Annual Report

Part III: Biosolids land application site information

Part III: Must be completed by facilities that land applied Class B biosolids during the reporting period. Add additional pages as needed.

	S. LAND APPLICATION SITE INFORMATION									
	Site ID	Owner (Last Name)	Location, PLSS (Township, Range, Section, Tax Lot)	Crop(s)	Appl. rate (lbs N/ac)	Total applied (DT/site)*	Total area applied (acres)	to the provious	Soil test**	
1.								☐ Yes ☐ No		
2.								☐ Yes ☐ No		
3.								☐ Yes ☐ No		
4.								☐ Yes ☐ No		
5.								☐ Yes ☐ No		
6.								☐ Yes ☐ No		
7.								☐ Yes ☐ No		
8.								☐ Yes ☐ No		
9.								Yes No		
10.								Yes No		
11.								☐ Yes ☐ No		
12.								☐ Yes ☐ No		
13.								Yes No		
14.								Yes No		
15.								Yes No		
	Attach addition	nal pages as requi	ired to report on all sites that received	class B biosol	ids during the	reporting pe	eriod.			

^{*} Please report in units of dry US tons (US ton = 2,000 lbs)

^{**} Please attach laboratory report showing sample results only. No lab QA/QC.

	T. SUMMARY OF PAR	T III ATTACHMENTS		
	Information required with some annual reports:			
1.	Additional copies of Table S for additional land application.			
	Analytical results from soil testing			
	Example of documentation held by the permittee and available	upon request:		
	Additional land application site information.			
2.	Figures showing where biosolids were applied.			
	☐ Nitrogen loading calculations			
				_
	U. SIGNATURE OF LEGALLY A	AUTHORIZED REPRESEN	ITATIVE	
	I certify, under penalty of law, that the information that will be used to determ	•		
	which Class B sewage sludge was applied was prepared under my direction a	•		
1	personnel properly gather and evaluate this information. I am aware that ther and imprisonment.	e are significant penalties for fal	se certification including the possibility of fi	ne
ľ	and imprisonment.			
	Signature	Title	Date	
-	Signature Print Name:	Title	Date	