

Biosolids Annual Report Form

Facility Information

DEQ File Number: _____ Permit Number: _____
 Name _____ Permit Type: NPDES _____
 Location Address _____ WPCF _____

 Mailing Address _____
 Contact name _____ Telephone: _____
 E-mail _____ Fax: _____

Biosolids Process Descriptions

Generation

Wastewater Sources & Volumes:

	Gallons/yr
Municipal	
Industrial	
Septage	
Total Gallons	

Solids Produced:

	Dry Tons (DT)/yr
primary	
secondary	
other	
Total DT	

Preparation

Mark applicable processes and on separate sheet describe the processes and equipment used for:

screening
grit removal
settling
thickening
digestion
dewatering

Storage

For each container type, list numbers, sizes, materials (i.e. steel, etc.) and volume.

<u>Containers</u>	X number of units	X volumes of each storage container	(material)	= total volume
tanks				
clarifiers				
lagoons				
drying beds				
other				
other				
TOTAL CAPACITY:				

Application

List transport equipment used from facility to sites (e.g. 3,000 gal. tanker truck).

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List application method and equipment used to apply at sites

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(e.g. truck splash plate, spray gun, manure spreader, etc.).

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Biosolids Quality

EQ		Class A		Class B	
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Testing frequency (times/yr)	1	4	6	12
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[in Metric Tons] [<290] [290>1,500] [1,500>15,000] [≥ 15,000]

[in U.S. Tons] [<319] [319>1,650] [1,650>16,500] [≥ 16,500]

[Choose one, based on dry weight of biosolids produced and land applied annually.]

Test data

Use Tables below to record quarterly or annual testing results; use average column for annual test data. If testing more frequently (monthly), supply data on separate sheet.

Nutrient Monitoring

Item	1 st quarter	2 nd quarter	3 rd quarter	4 th quarter	Average
TKN					
NO ³ -N					
NH ⁴ -N					
P					
K					
pH					
Total Solids					
Vol. Solids					

Test data is expressed in % dry weight (dw), except pH which is standard units.

Pollutant Monitoring

Metals	1 st quarter	2 nd quarter	3 rd quarter	4 th quarter	Average
As					
Cd					
Cr					
Cu					
Pb					
Hg					
Mo					
Ni					
Se					
Zn					

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Test data is expressed in mg/kg (ppm) based on dry weight.

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Pathogen Reduction Monitoring & Records

Circle selected pathogen reduction alternative below and on a separate sheet:

- Describe process used to reduce pathogens
- State operational parameters met (e.g. time & temperature)
- Attach monitoring data and certification statement

Part 503.32 Pathogen Reduction Alternatives

Class A Alternatives

[requires tests for fecal coliform &/or *Salmonella* sp.]

1. time & temperature
2. pH >12, 72 hr; @52°C, 12hr, >50%TS
3. pre- & post-testing for enteric virus & helminth ova
4. post-testing for enteric virus & helminth ova
5. PFRP:
 - 1 composting
 - 2 heat drying
 - 3 heat treatment
 - 4 thermophilic aerobic
 - 5 beta ray irradiation
 - 6 gamma ray irradiation
 - 7 pasteurization
6. PFRP equivalent

Class B Alternatives

1. 7 samples, geometric mean < 2,000,000 MPN or CFU/g TS
2. PSRP:
 - 1 aerobic digestion
 - 2 air drying
 - 3 anaerobic digestion
 - 4 composting
 - 5 lime stabilization
3. PSRP equivalent

Vector Attraction Reduction (VAR) Monitoring & Records

Circle selected alternative and on separate sheet:

- Describe VAR process used
- Describe operational parameters met (e.g. pH & time)
- Attach monitoring data and certification statement

Part 503.33 Vector Reduction Alternatives

In-plant alternatives

1. 38% min. reduction of volatile solids
2. anaerobic bench scale digestion
3. aerobic bench scale digestion
4. SOUR aerobic 1.5mg O²/hr/g TS (dw)
5. aerobic 14 days >45°C average temp.
6. pH ≥ 12 for 2 hr, + 22 hr ≥ 11.5 pH
7. secondary solids ≥ 75% solids
8. primary solids ≥ 90% solids

Site management alternatives

9. subsoil injection within 8 hr
10. soil incorporation within 6-8 hr

Other alternatives

11. (for disposal units only)
12. septage only
pH ≥ 12 for at least 30 min.

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Land Application Site Information

For all sites used during the reporting year period, provide the following information:
(This information can be provided on a separate spreadsheet if available.)

Site Name (resident)	Site ID No.	Location (Sec,Twn,Rge)	Crop(s)	Acres applied	N lb/ac applied	Application rate DT/ac	Total DT/site	Seasonal restrictions

NOTE: Attach the following items if applicable.

Soil test data if site is proposed for application for third consecutive year.
This will apply to all sites used in 1998 that were applied to in 1996 & 1997.
See **OAR 340-50-080(5)**

Cumulative loadings & site life information for sites receiving biosolids with any trace pollutants exceeding Table 3 values.
See **OAR 340-50-035(6)(b)**