

Stormwater Only at Discharge Outfall

Analytical Monitoring Matrix for Compost Facilities - FINAL as of April 11, 2011

Compost Facility Type									I		II		III		IV/DWQ Permitted Fac.	
Facility Size									Small	Large	Small	Large	Small	Large	Small	Large
Permit Required									Exempt	General	General	General	General ²	Individual	Individual	Individual
Monitored Constituents ^{1,3} :	Units	North Carolina DWQ Rec. Bmrk (Ref. A) ⁶	Oregon 1200-Z Bmrk (Ref. B)	Oregon 1200-COLS Bmrk (Ref. B)	Washington Industrial General Bmrk (Ref. B)	California Bmrk (Ref. B)	Maine Multi-Sector General Permit Bmrk (Ref. B)	Frequency ⁷								
Total Suspended Solids	mg/l	100	130	50	NA	100	NA	Quarterly	NA	✓	✓	✓	✓	✓	✓	✓
Chemical Oxygen Demand ⁸	mg/l	120 (Note 11)	30 (Ref. C)	33	30	NA	NA	Quarterly	NA	✓	✓	✓	✓	✓	✓	✓
Total Nitrogen	mg/l	30						Quarterly	NA	✓	✓	✓	✓	✓	✓	✓
Total Phosphorous	mg/l	2	2 (Ref. C)	0.16	2	2	2	Quarterly	NA	✓	✓	✓	✓	✓	✓	✓
Fecal Coliform	colonies/100ml	1000						Quarterly	NA	✓	✓	✓	✓	✓	✓	✓
pH	standard units	6 - 9	5.5-9	6.5-8.5	6 - 9	6 - 9	NA	Quarterly	NA	✓	✓	✓	✓	✓	✓	✓
Total Cu ^{9,10}	mg/l	0.0105	0.1	0.036	.014-.032	NA	NA	Quarterly	NA	✓	✓	✓	✓	✓	✓	✓
Total Zn ^{9,10}	mg/l	0.075	0.6	0.24	0.117	0.117	0.117	Quarterly	NA	✓	✓	✓	✓	✓	✓	✓
Total Pb ^{9,10}	mg/l	0.126	0.4	0.006	0.0816	0.0816	0.0816	Quarterly	NA	✓	✓	✓	✓	✓	✓	✓
Total Rainfall	Inches	NA						Quarterly	NA	✓	✓	✓	✓	✓	✓	✓

Notes:

- Total Maximum Daily Limits (TMDL) - Additional parameters may be required depending upon site watershed. Units and benchmarks will depend on constituents in feedstocks.
- Certain feedstock types may require Individual Permit.
- Standard test methods as approved by DWQ where appropriate
- Excludes vehicle maintenance activities triggers associated with General Permits
- Normal tiered monitoring protocols for exceedances also apply.
- Benchmarks are not violations they are triggers for action.
- Monitoring frequency maybe stepped depending on data. Open to reduction of frequency based on consistent passing data.
- Monitoring Committee recommends measuring COD instead of BOD.
- metal analysis: Total
- Values reported are revised bench marks that are anticipated to be approved as part of the Classification and Standards Unit Triannual review
- The COD benchmark value was modified from 30 to 120 mg/l to match stormwater benchmarks across the state. Every other stormwater permit with COD has a stormwater benchmark of 120 mg/L.

References:

- Individual Permit: Benchmarks and Rationale Document, August 10, 2007 provided by NCDENR - DWQ
- Contract: Commerical Composting Water Quality Permit Development, May 12, 2004 provided by CH2MHill
- Managing Storm Water, February 2008 provided by BioCycle