	DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT
So	olid and Hazardous Waste Commission/Hazardous Materials and Waste Management Division
	6 CCR 1007-2
PAR	1 REGULATIONS PERTAINING TO SOLID WASTE SITES AND FACILITIES
<u>Secti</u>	on 14 Composting Regulations Amendments
	ction 14.1.4 (Conditional Exemptions) is being amended by revising paragraph (A) Id as follows:
S	ECTION 14.1 GENERAL PROVISIONS
**	****
14	.1.4 Conditional Exemptions
	(A) Conditionally Exempt Small Quantity Composting Operations: Any composting facility with up to: (1) 100 cubic yards of Type 1 feedstock onsite or in process; (2) 100 cubic yards of Type 1 feedstock and up to 205 cubic yards of Type 2 feedstock onsite or in process; or (3) 100 cubic yards of Type 1 and up to 10 cubic yards of Type 2 feedstock on site or in process when composted in vessel, that complies with the following conditions is exempt from the balance of this Section 14:

	ction 14.1.5 (Compliance Schedule) is being amended by revising paragraphs (A) B) and deleting paragraph (C) to read as follows:
	CTION 14.1 GENERAL PROVISIONS
S	CTION 14.1 GENERAL PROVISIONS

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14.1.5 Compliance Schedule

(A) Class II and Class III composting facilities that do not have an EDOP approved after the November 18, 2008 revisions of this Section 14, Solid Waste Composting Regulations, must submit to the Department and the local governing authority, for review and approval, a revised EDOP within eighteen (18) months of the effective date of this Section 14.<u>Within twelve (12)</u> months of the effective date of these Section 14 amendments, all facilities must comply with the certified compost operator training as specified in Sections 14.2.4(K)(1), 14.3.5(K)(1), and 14.4.5(K)(1), as applicable.

(B) Within six (6) months of the effective date of this Section 14, facilities that cannot meet the compliance schedule specified in 14.1.5(A) must make a demonstration to the Department showing why this compliance schedule cannot be met, and must request an alternate schedule for coming into compliance with this Section 14. Such extension shall be subject to Department approval, but the deadline for coming into compliance may be extended no longer than eighteen (18) months after the effective date of this Section 14. The requirement to sample for both biological constituents in Section 14.6(D) must begin immediately. Facilities with an EDOP must update their sampling plans to reflect this change within twelve (12) months of the effective date of this THESE Section 14 AMENDMENTS.

(C) Within twelve (12) months of the effective date of this Section 14, any Class I composting facility must have onsite a completed Composting Plan that complies with Section 14.2.

3) Section 14.2.1 (Scope and Applicability) is being amended by revising paragraph (B), renumbering the existing paragraph (C) as paragraph (D), and adding a new paragraph (C) to read as follows:

SECTION 14.2 - CLASS I COMPOSTING FACILITIES

14.2.1 Scope and Applicability

Section 14.2 applies to any persons, local governing authorities, and municipalities who owns or operates a Class I composting facility. A Class I composting facility is a facility that:

(A) Composts only Type 1 feedstocks, and who has less than 50,000 cubic yards of feedstocks and in-process material onsite at any one time (finished compost does not count toward this total); or

(B) <u>Composts Type 1 feedstocks</u>, **SOURCE SEPARATED ORGANICS**, food residuals and food processing vegetative waste, and has no more than 5,000 cubic yards of feedstocks and in-process materials onsite at any one time; or <u>Composts only source separated organics and/or food residuals generated onsite together with other compatible materials as defined in Section 1 of these regulations, with the following limits:</u>

1. A total volume of no greater than 5,000 cubic yards of source separated organics onsite at any one time (finished qualified product does not count toward this total); and

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95	
96	2. A composting area of two (2) acres in size or less; or
97	
98	(C) Composts on agriculturally zoned property using only agricultural waste generated onsite together
99	with Type 1 materials, SOURCE SEPARATED ORGANICS, food residuals and food processing vegetative
100	waste, together with other compatible materials as defined in Section 1 of these regulations, with the
100	following limits:
102	
	(1) A total values of no greater than 5,000 subia varia of source constant ergenies ensite at
103	(1) A total volume of no greater than 5,000 cubic yards of source separated organics onsite at
104	any one time (finished qualified product does not count toward this total); and
105	
106	(2) A composting area of two (2) acres in size or less; or
107	
108	(GD) Composts at the site of generation or on agriculturally zoned property owned by the generator using
109	only agricultural waste generated onsite together with other compatible materials as defined in Section 1
110	of these regulations and does not meet one of the general exemptions or conditional exemptions in
111	Sections 14.1.3 or 14.1.4.
112	
113	
114	4) Section 14.2.3 (Class I Composting Facility Design Requirements) is being amended
115	by revising paragraphs (A)(2)(b)- (A)(2)(e) and paragraph (B) to read as follows:
116	
117	
118	SECTION 14.2 - CLASS I COMPOSTING FACILITIES
119	
120	*****
121	
122	14.2.3 Class I Composting Facility Design Requirements
123	
124	(A) Surface Water Control: The Composting Plan for Class I composting facility must describe how
125	
1/3	
	the surface water control system features of the facility will be designed, constructed and maintained:
126	the surface water control system features of the facility will be designed, constructed and maintained:
126 127	
126 127 128	the surface water control system features of the facility will be designed, constructed and maintained: (1) Prevent negative impacts to surface water and groundwater;
126 127 128 129	the surface water control system features of the facility will be designed, constructed and maintained:
126 127 128 129 130	the surface water control system features of the facility will be designed, constructed and maintained: (1) Prevent negative impacts to surface water and groundwater; (2) Control surface water, including:
126 127 128 129 130 131	 the surface water control system features of the facility will be designed, constructed and maintained: (1) Prevent negative impacts to surface water and groundwater; (2) Control surface water, including: (a) stormwater run on and run off control features with a slope of one (1) to six (6) percent, or
126 127 128 129 130 131 132	the surface water control system features of the facility will be designed, constructed and maintained: (1) Prevent negative impacts to surface water and groundwater; (2) Control surface water, including:
126 127 128 129 130 131 132 133	 the surface water control system features of the facility will be designed, constructed and maintained: (1) Prevent negative impacts to surface water and groundwater; (2) Control surface water, including: (a) stormwater run on and run off control features with a slope of one (1) to six (6) percent, or meeting other design criteria as approved by the department;
126 127 128 129 130 131 132 133 134	 the surface water control system features of the facility will be designed, constructed and maintained: (1) Prevent negative impacts to surface water and groundwater; (2) Control surface water, including: (a) stormwater run on and run off control features with a slope of one (1) to six (6) percent, or meeting other design criteria as approved by the department; (b) features to contain and manage contact water, which may include a vegetated area as
126 127 128 129 130 131 132 133	 the surface water control system features of the facility will be designed, constructed and maintained: (1) Prevent negative impacts to surface water and groundwater; (2) Control surface water, including: (a) stormwater run on and run off control features with a slope of one (1) to six (6) percent, or meeting other design criteria as approved by the department;
126 127 128 129 130 131 132 133 134	 the surface water control system features of the facility will be designed, constructed and maintained: (1) Prevent negative impacts to surface water and groundwater; (2) Control surface water, including: (a) stormwater run on and run off control features with a slope of one (1) to six (6) percent, or meeting other design criteria as approved by the department; (b) features to contain and manage contact water, which may include a vegetated area as long as it is of sufficient size and slope to prevent erosion and completely contain any
126 127 128 129 130 131 132 133 134 135	 the surface water control system features of the facility will be designed, constructed and maintained: (1) Prevent negative impacts to surface water and groundwater; (2) Control surface water, including: (a) stormwater run on and run off control features with a slope of one (1) to six (6) percent, or meeting other design criteria as approved by the department; (b) features to contain and manage contact water, which may include a vegetated area as
126 127 128 129 130 131 132 133 134 135 136 137	 the surface water control system features of the facility will be designed, constructed and maintained: (1) Prevent negative impacts to surface water and groundwater; (2) Control surface water, including: (a) stormwater run on and run off control features with a slope of one (1) to six (6) percent, or meeting other design criteria as approved by the department; (b) features to contain and manage contact water, which may include a vegetated area as long as it is of sufficient size and slope to prevent erosion and completely contain any discharge of contact water;
126 127 128 129 130 131 132 133 134 135 136 137 138	 the surface water control system features of the facility will be designed, constructed and maintained: (1) Prevent negative impacts to surface water and groundwater; (2) Control surface water, including: (a) stormwater run on and run off control features with a slope of one (1) to six (6) percent, or meeting other design criteria as approved by the department; (b) features to contain and manage contact water, which may include a vegetated area as long as it is of sufficient size and slope to prevent erosion and completely contain any discharge of contact water; (c) engineered features to prevent contact water from negatively impacting groundwater, as
126 127 128 129 130 131 132 133 134 135 136 137 138 139	 the surface water control system features of the facility will be designed, constructed and maintained: (1) Prevent negative impacts to surface water and groundwater; (2) Control surface water, including: (a) stormwater run on and run off control features with a slope of one (1) to six (6) percent, or meeting other design criteria as approved by the department; (b) features to contain and manage contact water, which may include a vegetated area as long as it is of sufficient size and slope to prevent erosion and completely contain any discharge of contact water;
126 127 128 129 130 131 132 133 134 135 136 137 138 139 140	 the surface water control system features of the facility will be designed, constructed and maintained: (1) Prevent negative impacts to surface water and groundwater; (2) Control surface water, including: (a) stormwater run on and run off control features with a slope of one (1) to six (6) percent, or meeting other design criteria as approved by the department; (b) features to contain and manage contact water, which may include a vegetated area as long as it is of sufficient size and slope to prevent erosion and completely contain any discharge of contact water; (c) engineered features to prevent contact water from negatively impacting groundwater, as determined by a Colorado licensed professional engineer or a professional geologist;
126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141	 the surface water control system features of the facility will be designed, constructed and maintained: (1) Prevent negative impacts to surface water and groundwater; (2) Control surface water, including: (a) stormwater run on and run off control features with a slope of one (1) to six (6) percent, or meeting other design criteria as approved by the department; (b) features to contain and manage contact water, which may include a vegetated area as long as it is of sufficient size and slope to prevent erosion and completely contain any discharge of contact water; (c) engineered features to prevent contact water from negatively impacting groundwater, as determined by a Colorado licensed professional engineer or a professional geologist; (d) engineered features to prevent ponding of stormwater and contact water within the
126 127 128 129 130 131 132 133 134 135 136 137 138 139 140	 the surface water control system features of the facility will be designed, constructed and maintained: (1) Prevent negative impacts to surface water and groundwater; (2) Control surface water, including: (a) stormwater run on and run off control features with a slope of one (1) to six (6) percent, or meeting other design criteria as approved by the department; (b) features to contain and manage contact water, which may include a vegetated area as long as it is of sufficient size and slope to prevent erosion and completely contain any discharge of contact water; (c) engineered features to prevent contact water from negatively impacting groundwater, as determined by a Colorado licensed professional engineer or a professional geologist;

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144	(e) engineered contact water/ and stormwater containment structures with a minimum of 2
145	feet of freeboard measured from the lowest elevation at any given time.
146	
147	(B) Surface Water Control for Class I Composting Facilities Composting Manure, Animal
148	Mortalities and/or Source Separated OrganicsAnimal Materials: In addition to the surface water
149	management requirements in 14.2.3(A), the owner/operator of a Class I composting facility
150	composting manure, animal mortalities and/or source separated organicsanimal materials must
151	design, construct and maintain stormwater and contact water controls that meet the following
152	requirements:
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154	*****
155	
156	*****
157	
158	
159	5) Section 14.2.4 (Class I Composting Escility Operational Requirements) is being
	5) Section 14.2.4 (Class I Composting Facility Operational Requirements) is being
160	amended by revising paragraphs (C) and (K) to read as follows:
161	
162	SECTION 14.2 - CLASS I COMPOSTING FACILITIES
163	
164	*****
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166	14.2.4 Class I Composting Facility Operational Requirements
167	
168	The owner/operator of a Class I composting facility must operate the facility in accordance with their
169	Department-approved registration, with their Composting Plan, and with the following operational
170	requirements:
171	
172	*****
173	
174	(C) Material Acceptance: The owner/operator of a Class I composting facility may only accept Type
175	1 and Type 2 feedstocks, or other compatible materials if the composting facility is operating as
176	allowed under the provisions of Section 14.2.1 (B) or Section 14.2.1(C) and as specified in the
177	approved registration.
178	
179	*****
180	
181	(K) Personnel Training: Class I composting facilities must operate under the control of properly
182	trained individuals. Personnel must be trained to recognize prohibited materials, take action when
183	nuisance conditions occur, and implement emergency procedures when necessary. Each Class I
184	compost facility operating under Section 14.2.1(B) and 14.2.1(C) must have at least one operator that
185	has completed the following training:
186	
187	(1) Certified operator training: Completion of a nationally recognized or equivalent training on
188	compost facility operations. A facility shall go no longer than twelve (12) months without having
189	an operator on staff that has completed this training.
190	
191	*****
192	
193	

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194	
195	6) Section 14.3.4 (Class II Composting Facility Design and Operations Plan: Design) is
196	being amended by revising paragraph (B)(5) to read as follows:
197	
198	14.3.4 Class II Composting Facility Design and Operations Plan: Design
190	14.3.4 Class in composing racincy besign and operations Flan. Design
200	*****
200	
201	(B) Feedstock Processing Areas: The EDOP for a Class II composting facility must describe how
202	the areas where all mixing, tipping and composting occur will be designed and constructed to:
203	
204	*****
205	
200	(5) The Department may require a low permeability workpad area to manage contact water
208	generated from composting operations. Site-specific conditions, operational practices, feedstock,
209	bulking material and liquid wastes will be evaluated to determine the necessity for a low
210	permability permeability workpad and low permabilitypermeability liquid mixing pad/basin.
211	permasing <u>permeasing</u> wentped and ten permasing <u>permeasing</u> inquid mixing padiodeni.
212	
	7) Section 14.2.5 (Class II Composting Escility Design and Operations Plan, Operations)
213	7) Section 14.3.5 (Class II Composting Facility Design and Operations Plan: Operations)
214	is being amended by revising paragraphs (B) - Financial Assurance and (K) - Personnel
215	Training to read as follows:
216	
217	
218	SECTION 14.3 - CLASS II COMPOSTING FACILITIES
218 219	
218 219 220	SECTION 14.3 - CLASS II COMPOSTING FACILITIES
218 219 220 221	*****
218 219 220 221 222	
218 219 220 221 222 223	******* 14.3.5 Class II Composting Facility Design and Operations Plan: Operations
218 219 220 221 222 223 223 224	******* 14.3.5 Class II Composting Facility Design and Operations Plan: Operations Class II composting facilities must comply with their Department-approved EDOP. The EDOP must
218 219 220 221 222 223 224 225	******* 14.3.5 Class II Composting Facility Design and Operations Plan: Operations
218 219 220 221 222 223 224 225 226	******* 14.3.5 Class II Composting Facility Design and Operations Plan: Operations Class II composting facilities must comply with their Department-approved EDOP. The EDOP must
218 219 220 221 222 223 224 225 226 227	****** 14.3.5 Class II Composting Facility Design and Operations Plan: Operations Class II composting facilities must comply with their Department-approved EDOP. The EDOP must include the following operation requirements:
218 219 220 221 222 223 224 225 226 227 228	****** 14.3.5 Class II Composting Facility Design and Operations Plan: Operations Class II composting facilities must comply with their Department-approved EDOP. The EDOP must include the following operation requirements: ****
218 219 220 221 222 223 224 225 226 227 228 229	****** 14.3.5 Class II Composting Facility Design and Operations Plan: Operations Class II composting facilities must comply with their Department-approved EDOP. The EDOP must include the following operation requirements: ****** (B) Financial Assurance : <u>The EDOP for aA</u> Class II composting facility must <u>includehave</u> current
218 219 220 221 222 223 224 225 226 227 228 229 230	****** 14.3.5 Class II Composting Facility Design and Operations Plan: Operations Class II composting facilities must comply with their Department-approved EDOP. The EDOP must include the following operation requirements: ****** (B) Financial Assurance : <u>The EDOP for aA</u> Class II composting facility must <u>includehave</u> current financial assurance estimates in accordance with Section 4 of these Solid Waste Regulations. A
218 219 220 221 222 223 224 225 226 227 228 227 228 229 230 231	****** 14.3.5 Class II Composting Facility Design and Operations Plan: Operations Class II composting facilities must comply with their Department-approved EDOP. The EDOP must include the following operation requirements: ****** (B) Financial Assurance : <u>The EDOP for aA</u> Class II composting facility must <u>includehave</u> current financial assurance estimates in accordance with Section 4 of these Solid Waste Regulations. A Class II composting facility must maintain adequate financial assurance in accordance with its EDOP
218 219 220 221 222 223 224 225 226 227 228 229 230 231 232	****** 14.3.5 Class II Composting Facility Design and Operations Plan: Operations Class II composting facilities must comply with their Department-approved EDOP. The EDOP must include the following operation requirements: ****** (B) Financial Assurance : <u>The EDOP for aA</u> Class II composting facility must <u>includehave</u> current financial assurance estimates in accordance with Section 4 of these Solid Waste Regulations. A
218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233	****** 14.3.5 Class II Composting Facility Design and Operations Plan: Operations Class II composting facilities must comply with their Department-approved EDOP. The EDOP must include the following operation requirements: ****** (B) Financial Assurance : <u>The EDOP for aA</u> Class II composting facility must <u>includehave</u> current financial assurance estimates in accordance with Section 4 of these Solid Waste Regulations. A Class II composting facility must maintain adequate financial assurance in accordance with its EDOP
218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234	****** 14.3.5 Class II Composting Facility Design and Operations Plan: Operations Class II composting facilities must comply with their Department-approved EDOP. The EDOP must include the following operation requirements: ****** (B) Financial Assurance : <u>The EDOP for aA</u> Class II composting facility must <u>includehave</u> current financial assurance estimates in accordance with Section 4 of these Solid Waste Regulations. A Class II composting facility must maintain adequate financial assurance in accordance with its EDOP and with Section 4 of these Solid Waste Regulations.
218 219 220 221 222 223 224 225 226 227 228 227 228 229 230 231 232 233 234 235	****** 14.3.5 Class II Composting Facility Design and Operations Plan: Operations Class II composting facilities must comply with their Department-approved EDOP. The EDOP must include the following operation requirements: ****** (B) Financial Assurance : <u>The EDOP for aA</u> Class II composting facility must <u>includehave</u> current financial assurance estimates in accordance with Section 4 of these Solid Waste Regulations. A Class II composting facility must maintain adequate financial assurance in accordance with its EDOP and with Section 4 of these Solid Waste Regulations.
218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234	****** 14.3.5 Class II Composting Facility Design and Operations Plan: Operations Class II composting facilities must comply with their Department-approved EDOP. The EDOP must include the following operation requirements: ****** (B) Financial Assurance : <u>The EDOP for aA</u> Class II composting facility must <u>includehave</u> current financial assurance estimates in accordance with Section 4 of these Solid Waste Regulations. A Class II composting facility must maintain adequate financial assurance in accordance with its EDOP and with Section 4 of these Solid Waste Regulations.
218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236	******* 14.3.5 Class II Composting Facility Design and Operations Plan: Operations Class II composting facilities must comply with their Department-approved EDOP. The EDOP must include the following operation requirements: ******* (B) Financial Assurance : The EDOP for aA Class II composting facility must includehave current financial assurance estimates in accordance with Section 4 of these Solid Waste Regulations. A Class II composting facility must maintain adequate financial assurance in accordance with its EDOP and with Section 4 of these Solid Waste Regulations. ******* (K) Personnel Training : A Class II composting facility must operate under the control of properly
218 219 220 221 222 223 224 225 226 227 228 226 227 228 229 230 231 232 233 234 235 236 237	 ******* 14.3.5 Class II Composting Facility Design and Operations Plan: Operations Class II composting facilities must comply with their Department-approved EDOP. The EDOP must include the following operation requirements: ******* (B) Financial Assurance: The EDOP for a<u>A</u> Class II composting facility must include<u>have</u> current financial assurance estimates in accordance with Section 4 of these Solid Waste Regulations. A Class II composting facility must maintain adequate financial assurance in accordance with its EDOP and with Section 4 of these Solid Waste Regulations. ******* (K) Personnel Training: A Class II composting facility must operate under the control of properly trained individuals. Personnel must be trained to recognize prohibited materials, take action when
218 219 220 221 222 223 224 225 226 227 228 226 227 228 229 230 231 232 233 234 235 236 237 238	 ******* 14.3.5 Class II Composting Facility Design and Operations Plan: Operations Class II composting facilities must comply with their Department-approved EDOP. The EDOP must include the following operation requirements: ******* (B) Financial Assurance: The EDOP for a<u>A</u> Class II composting facility must includehave current financial assurance estimates in accordance with Section 4 of these Solid Waste Regulations. A Class II composting facility must maintain adequate financial assurance in accordance with its EDOP and with Section 4 of these Solid Waste Regulations. ******* (K) Personnel Training: A Class II composting facility must operate under the control of properly trained individuals. Personnel must be trained to recognize prohibited materials, take action when nuisance conditions occur, and implement emergency procedures when necessary. The EDOP for a
218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239	 ******* 14.3.5 Class II Composting Facility Design and Operations Plan: Operations Class II composting facilities must comply with their Department-approved EDOP. The EDOP must include the following operation requirements: ******* (B) Financial Assurance: The EDOP for a<u>A</u> Class II composting facility must includehave current financial assurance estimates in accordance with Section 4 of these Solid Waste Regulations. A Class II composting facility must maintain adequate financial assurance in accordance with its EDOP and with Section 4 of these Solid Waste Regulations. ******* (K) Personnel Training: A Class II composting facility must operate under the control of properly trained individuals. Personnel must be trained to recognize prohibited materials, take action when nuisance conditions occur, and implement emergency procedures when necessary. The EDOP for a Class II composting facility must describe how the facility will comply with these requirements. <u>Each</u>

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242	(1) Certified operator training: Completion of a nationally recognized or equivalent training on
243	compost facility operations. A facility shall go no longer than twelve (12) months without having
244	an operator on staff that has completed this training.
245	
246	*****
247	
248	
249	8) Section 14.4.4 (Class III Composting Facility Design and Operations Plan: Design) is
250	being amended by revising paragraph (B)(5) to read as follows:
	being amended by revising paragraph (B)(5) to read as follows.
251 252	14.4.4 Class III Composting Facility Design and Operations Plan: Design
	14.4.4 Class in composing facility design and Operations Flan. Design
253	*****
254	
255	(D) For data at Brance in a Amore The EDOD for a Ohio III and the for iliteration to be all the
256	(B) Feedstock Processing Areas: The EDOP for a Class III composting facility must describe how
257	the areas where all mixing, tipping and composting occur will be designed and constructed to:
258	
259	*****
260	
261	(5) The Department may require a low permeability workpad area to manage contact water
262	generated from composting operations. Site-specific conditions, operational practices, feedstock,
263	bulking material and liquid wastes will be evaluated to determine the necessity for a low
264	permeability workpad and low permability permeability liquid mixing pad/basin.
265	
266	*****
267	
268	
269	9) Section 14.4.5 (Class III Composting Facility Design and Operations Plan: Operations)
270	is being amended by revising paragraphs (B) - Financial Assurance and (K) - Personnel
271	Training to read as follows:
272	
273	
274	SECTION 14.4 - CLASS III COMPOSTING FACILITIES
275	
276	*****
277	
278	14.4.5 Class III Composting Facility Design and Operations Plan: Operations
279	
280	Class III composting facilities must comply with their Department-approved EDOP. The EDOP must
281	include the following operation requirements:
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283	*****
284	
285	(B) Financial Assurance : The EDOP for a<u>A</u> Class III composting facility must include<u>have</u> current
286	financial assurance estimates in accordance with Section 4 of these Solid Waste Regulations. A
287	Class III composting facility must maintain adequate financial assurance in accordance with its EDOP
288	and with Section 4 of these Solid Waste Regulations.
289	
290	*****

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291	
292	(K) Personnel Training: A Class III composting facility must operate under the control of properly
293	trained individuals. Personnel must be trained to recognize prohibited materials, take action when
294	nuisance conditions occur, and implement emergency procedures when necessary. The EDOP for a
295	Class III composting facility must describe how the facility will comply with these requirements. Each
296	Class III compost facility must have at least one operator that has completed the following training:
297	
298	(1) Certified operator training: Completion of a nationally recognized or equivalent training on
299	compost facility operations. A facility shall go no longer than twelve (12) months without having
300	an operator on staff that has completed this training.
301	
302	*****
303	
304	
305	10) Section 14.6 (Sampling of Finished Compost and Soils Amendments) is being
306	amended by revising paragraphs (D) and (J) and adding a new paragraph (K) to read as
307	follows:
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309	
310	14.6 – SAMPLING OF FINISHED COMPOST AND SOILS AMENDMENTS
311	
312	*****
313	
314	(D) The owner or operator of a composting facility must ensure that:
315	
316	(1) The density of the fecal coliform present in the compost is less than 1000 Most Probable
317	Number per gram of total solids (dry weight basis); or<u>and</u>
318	
319	(2) The density of Salmonella sp. bacteria in the compost is less than three (3) Most Probable
320	Number per four (4) grams of total solids (dry weight basis) at the time the compost is to be sold
321	or otherwise distributed for use; or
322 323	(2) An owner/operator of a compositing facility may reacive an approval from the Department and
323 324	(3) An owner/operator of a composting facility may receive an approval from the Department and local governing authority for alternate testing after demonstrating how the alternative testing is
325	protective of human health and the environment.
326	
327	*****
328	
329	(J) Unrestricted Use: Compost that satisfies the levels specified in Table 1 and all other parameters
330	identified by the Department per Section 14.6 is determined by these criteria to be finished compost
331	and acceptable for unrestricted use. The finished compost is considered to be a product not a waste,
332	and is no longer subject to these Solid Waste Regulations, except that storage of finished compost
333	may only occur in designated areas identified in a facility's operations plan. For those additional
334	constituents identified by the Department under Section 14.6 and not found on Table 1, the
335	Department will approve protective unrestricted use constituent concentrations.
336	
337	(K) Soil amendments approved in accordance with Section 14.6(C) must meet the Department
338	approved criteria at the time of distribution. Storage of soil amendments that do not meet the
339	unrestricted use criteria must be stored in a manner that is protective of human health and the
340	environment and in accordance with the facility's operations plan. Storage of liquid soil amendments

Proposed Section 14 Composting Amendments February 20, 2024 S&HW Commission Hearing Page 7 of 8 341on the ground is subject to Section 9 of these regulations. The Department may require additional
engineering controls for soil amendments.

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1 ว		DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT	
2 3			
4		Solid and Hazardous Waste Commission	
5		Hazardous Materials and Waste Management Division	
6 7		6 CCR 1007-2	
8 9 10		STATEMENT OF BASIS AND PURPOSE AND SPECIFIC STATUTORY AUTHORITY FOR	
11 12 13		ndment to the Regulations Pertaining to Solid Waste Sites and Facilities (6 CCR 1007- rt 1) – Section 14.	
14	Basis and Purpose		
15 16 17	I.	Statutory Authority	
18 19 20 21 22		Section 30-20-109 C.R.S. gives the Solid and Hazardous Waste Commission (the Commission) the authority to promulgate solid waste regulations in order to implement and enforce Section 30, Article 20, Part 1, C.R.S. In addition, Section 30- 20-109(2)(d) gives the Commission the authority to establish criteria by rule as to when a certificate of designation is not required for composting site and facilities.	
23 24 25	II.	Purpose of revised regulations:	
26 27 28 29 30 31 32 33		The purpose of these revisions to Section 14 of 6 CCR 1007-2 Part 1 (the Regulations) is to increase food waste diversion opportunities by increasing allowable Type 2 feedstock volumes for Conditionally Exempt Small Quantity facilities, and allowing certain Class I facilities to accept food waste from offsite locations. A standard operator training requirement is included for Class I, II, and III facilities. The requirements for sampling, storage, and use of finished compost and soil amendments have also been updated to be more protective of human health and the environment.	
34 35	<u>Discı</u>	ussion of Regulatory Proposal	
36 37 38		In Section 14.1.4(A) the volume of Type 2 feedstocks for Conditionally Exempt Small Quantity Composting Operations is increasing to 20 cubic yards, and the distinction for in-vessel composting is being removed.	

Amendment of Section 14 Composting Regulations February 20, 2024 S&HW Commission Hearing Page 1 of 4 In Section 14.1.5 the existing compliance schedule is being replaced to reflect the changes proposed by this revision. Compliance is required within twelve months of the effective date of this revision for the operator training requirements in Sections 14.2.4(K)(1), 14.3.5(K)(1), and 14.4.5(K)(1). Additionally, facilities with an EDOP must update their sampling plans to reflect the changes within 14.6(D) within 12 months of the effective date of this revision.

In Section 14.2.1, which applies to Class I Compost Facilities, the following changes are being proposed:

14.2.1(B)

Under the proposed revisions, a Class I compost facility may accept up to 5,000 cubic yards of Type 1 feedstocks, <u>source separated organics</u>, food residuals and food processing vegetative waste from offsite sources. Previously, this facility type could only process food waste that was generated onsite.

14.2.1(C)

This section is being modified to include as a Class I compost facility any agriculturally zoned compost facility that accepts Type 1 feedstocks, <u>source separated organics</u>, food residuals and food processing vegetative waste from offsite, and composts them together with agricultural materials generated onsite. This facility can have no more than 5,000 cubic yards of source separated organics onsite and in-process at any given time, and must be composted in an area of two acres or less.

14.2.1(D)

The section pertaining to an agriculturally zoned composting operation, formerly in 14.2.1(C), has moved here.

Section 14.2.3 addresses Class I Composting Facility Design Requirements. Under the proposed changes, surface water controls 14.2.3(A)(2)(b) have been modified to allow for alternate contact water management systems, and clarifications in sections 14.2.3(A)(2)(c), 14.2.3(A)(2)(d), and 14.2.3(A)(2)(e) have been made as to which features are considered engineered. Subsection 14.2.3(B) has been modified to only apply to facilities accepting manure, mortalities, and animal materials. These changes are intended to allow for more diverse management of contact water, while still being protective of ground and surface water.

Section 14.2.4(C) has been changed to allow certain Class I composting facilities to accept Type 2 feedstocks, which corresponds to the addition of food residuals and food processing vegetative waste to the list of acceptable materials for facilities under 14.2.1(B) and 14.2.1(C).

Section 14.2.4(K), which covers personnel training, now requires that the new operations allowed under Section 14.2.1(B) and 14.2.1(C) have a certified operator. This modification is important to ensure operators are familiar with the various technical requirements for properly operating a composting facility. Proper training will help prepare operators respond to issues in a timely and effective manner, which will ensure better protection of human health and the environment.

In Section 14.3.5(B) (Financial Assurance) the language has been changed so that Class II
composting facilities are not required to include financial assurance cost estimates in the EDOP,
and can instead be submitted under separate cover. Cost estimates are not typically required until
the closure plan, a component of the EDOP, has been approved. Because of this, it is preferred
that they not be included within the EDOP.

90	
91	Section 14.3.5(K) (Personnel Training) requires that all Class II operations have a certified
92	operator.
93	
94	In Section 14.4.5(B) (Financial Assurance) the language has been changed so that Class III
95	composting facilities are not required to include financial assurance cost estimates in the EDOP,
96	and can instead be submitted under separated cover.
97	
98	Section 14.4.5(K) (Personnel Training) requires that all Class III operations have a certified
99	operator.
100	
101	The Section 14.6 (Sampling of Finished Compost and Soils Amendments) are as follows:
102	
103	14.6(D) – Finished compost must now be sampled for both fecal coliform and
104	Salmonella. Sampling has revealed that some compost may pass one of the indicators,
105	but fail for the other. Testing for both standard pathogens ensures that the material has
106	been properly and effectively composted and will ensure the protection of human health
107	and the environment.
108	
109	14.6(J) – Finished compost may only be stored in areas identified in the facility's operations
110	plan. This ensures that finished compost is not potentially being stored in a manner where
111	it might be contaminated by unprocessed or unfinished materials.
112	
113	14.6(K) – Soil amendments may not be distributed without meeting Section 14.6(C)
114	requirements, and if they have not met unrestricted use criteria, they must be stored in a
115	manner that is protective of human health and the environment and complies with facility
116	operations plans. Liquid soil amendment storage on the ground is subject to Section 9 of
117	the regulations, which applies to liquid storage of solid waste. Additional engineering
118	controls may be required by the Department.
119	
120	Issues Encountered During Stakeholder Process:
121	A virtual stakeholder meeting was held on September 25, 2023 to discuss the proposed-
122	regulations. No issues were encountered during the stakeholder process.
123	regulations. No issues were encountered during the stakeholder process.
124	One stakeholder meeting was held on September 25, 2023, and comments from the public were
125	accepted until October 31, 2023. The only comments suggesting any changes are as follows:
126	accepted that bolober of, 2020. The only continents suggesting any changes are as follows.
127	1) The United States Compost Council, which recommended that the operator training
128	requirement be increased to specifically require operator's to obtain the United State
129	Compost Council's Certified Compost Operation Manager credential.
130	compose oburior o continou compose oportation managor orodonital.
131	2) Bob Yost from A1 Organics recommended that the requirement to test for both
132	pathogens be reevaluated once the EPA changes the 503 testing requirements for
133	biosolids, which is the basis for Colorado's finished compost testing requirements.
134	and the second of the second o
135	While these comments were considered, no changes to the proposed rules were made.
136	,, _,
137	Regulatory Alternatives
138	
130	No other regulatory alternatives were evaluated.
140	
110	

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141 Cost/Benefit Analysis

142A cost-benefit analysis will be performed if requested by the Colorado Department of Regulatory143Agencies.