

NOTICE OF PROPOSED RULEMAKING HEARING BEFORE THE COLORADO SOLID AND HAZARDOUS WASTE COMMISSION

SUBJECT:

For consideration of the amendments to 6 CCR 1007-2, Part 1, Section 14, along with the accompanying Statement of Basis and Purpose, the following will be considered:

Amendment of 6 CCR 1007-2, Part 1, Section 14 - Regulations Pertaining to Solid Waste Sites and Facilities - Composting

These modifications are made pursuant to the authority granted to the Solid and Hazardous Waste Commission in Section 30-20-109 C.R.S.

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.

Any information that is incorporated by reference in these proposed rules is available for review at the Colorado Department of Public Health and Environment, Hazardous Materials and Waste Management Division and any state publications depository library.

Pursuant to C.R.S. §24-4-103(3), a notice of proposed rulemaking was submitted to the Secretary of State on January 12, 2024. Copies of the proposed rulemaking will be mailed to all persons on the Solid and Hazardous Waste Commission's mailing list on or before the date of publication of the notice of proposed rulemaking in the Colorado Register on January 25, 2024.

The proposed rulemaking materials may also be accessed at https://cdphe.colorado.gov/shwc-rulemaking-hearings.

WRITTEN TESTIMONY

Any alternative proposals for rules or written comments relating to the proposed amendment of the regulation will be considered. The Solid and Hazardous Waste Commission will accept written testimony and materials regarding the proposed alternatives. **The commission strongly encourages interested parties to submit written testimony or materials to the**



Solid and Hazardous Waste Commission Office, via email to cdphe.hwcrequests@state.co.us by Wednesday, February 7, 2024, at 11:59 p.m. Written materials submitted in advance will be distributed to the commission members prior to the day of the hearing. Submittal of written testimony and materials on the day of the hearing will be accepted, but is strongly discouraged.

HEARING SCHEDULE:

DATE:	Tuesday, February 20, 2024
TIME:	9:00 a.m.
PLACE:	This meeting will be held <u>online only</u> at:

https://us02web.zoom.us/meeting/register/tZ0ldeyvqDktG9A80u-6CDaKszafa2dunsSD

Oral testimony at the hearing regarding the proposed amendments may be limited.

Brandy Valdez Murphy, Administrator



	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 Section 14.

(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>, 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 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:

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	(C) Composts on agriculturally zoned property using only agricultural waste generated onsite together
98	with Type 1 materials, food residuals and food processing vegetative waste, together with other
99	compatible materials as defined in Section 1 of these regulations, with the following limits:
100	
101	(1) A total volume of no greater than 5,000 cubic yards of source separated organics onsite at
102	any one time (finished qualified product does not count toward this total); and
103	
104	(2) A composting area of two (2) acres in size or less; or
105	
106	(CD) Composts at the site of generation or on agriculturally zoned property owned by the generator using
107	only agricultural waste generated onsite together with other compatible materials as defined in Section 1
108	of these regulations and does not meet one of the general exemptions or conditional exemptions in
109	Sections 14.1.3 or 14.1.4.
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112	4) Section 14.2.3 (Class I Composting Facility Design Requirements) is being amended
113	by revising paragraphs (A)(2)(b)- (A)(2)(e) and paragraph (B) to read as follows:
114	
115	
116	SECTION 14.2 - CLASS I COMPOSTING FACILITIES
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118	*****
119	
120	14.2.3 Class I Composting Facility Design Requirements
121	(A) Our face Martin Ocartas Little Ocartas Little Dia Good States Little Gold States State
122	(A) Surface Water Control : The Composting Plan for Class I composting facility must describe how
123	the surface water control system features of the facility will be designed, constructed and maintained:
124 125	(1) Dravant pagative impacts to surface water and groundwater
125	(1) Prevent negative impacts to surface water and groundwater;
120	(2) Control surface water, including:
128	(2) Control Surface water, including.
129	(a) stormwater run on and run off control features with a slope of one (1) to six (6) percent, or
130	meeting other design criteria as approved by the department;
131	mooung outer design entend de approved by the department,
132	(b) features to contain and -manage contact water <u>, which may include a vegetated area as</u>
133	long as it is of sufficient size and slope to prevent erosion and completely contain any
134	discharge of contact water;
135	
136	(c) engineered features to prevent contact water from negatively impacting groundwater, as
137	determined by a Colorado licensed professional engineer or a professional geologist;
138	
139	(d) engineered features to prevent ponding of stormwater and contact water within the
140	composting process area;
141	
142	(e) <u>engineered</u> contact water <u>/ and stormwater containment structures with a minimum of 2</u>
143	feet of freeboard measured from the lowest elevation at any given time.
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145	(B) Surface Water Control for Class I Composting Facilities Composting Manure, Animal
146	Mortalities and/or Source Separated OrganicsAnimal Materials: In addition to the surface water
147	management requirements in 14.2.3(A), the owner/operator of a Class I composting facility
148	composting manure, animal mortalities and/or source separated organicsanimal materials must
149	design, construct and maintain stormwater and contact water controls that meet the following
150	requirements:
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152	*****
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154	*****
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157	5) Section 14.2.4 (Class I Composting Facility Operational Requirements) is being
158	amended by revising paragraphs (C) and (K) to read as follows:
159	
160	SECTION 14.2 - CLASS I COMPOSTING FACILITIES
161	*****
162	
163	440.4 Class I Commenting Excility Operational Deputies ments
164	14.2.4 Class I Composting Facility Operational Requirements
165	
166	The owner/operator of a Class I composting facility must operate the facility in accordance with their
167	Department-approved registration, with their Composting Plan, and with the following operational
168	requirements:
169	*****
170	*****
171	
172	(C) Material Acceptance: The owner/operator of a Class I composting facility may only accept Type
173	1 and Type 2 feedstocks, or other compatible materials if the composting facility is operating as
174	allowed under the provisions of Section 14.2.1(B) or Section 14.2.1(C) and as specified in the
175	approved registration.
176	*****
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178	
179	(K) Personnel Training : Class I composting facilities must operate under the control of properly
180	trained individuals. Personnel must be trained to recognize prohibited materials, take action when
181	nuisance conditions occur, and implement emergency procedures when necessary. <u>Each Class I</u>
182	compost facility operating under Section 14.2.1(B) and 14.2.1(C) must have at least one operator that
183	has completed the following training:
184	
185	(1) Certified operator training: Completion of a nationally recognized or equivalent training on
186	compost facility operations. A facility shall go no longer than twelve (12) months without having
187	an operator on staff that has completed this training.
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193 194	6) Section 14.3.4 (Class II Composting Facility Design and Operations Plan: Design) is being amended by revising paragraph (B)(5) to read as follows:
195 196	14.3.4 Class II Composting Facility Design and Operations Plan: Design
197 198	*****
199 200 201 202	(B) Feedstock Processing Areas : The EDOP for a Class II composting facility must describe how the areas where all mixing, tipping and composting occur will be designed and constructed to:
202 203 204	****
205 206 207 208 209	(5) The Department may require a low permeability workpad area to manage contact water generated from composting operations. Site-specific conditions, operational practices, feedstock, bulking material and liquid wastes will be evaluated to determine the necessity for a low permability permeability workpad and low permabilitypermeability liquid mixing pad/basin.
210 211 212 213 214	7) Section 14.3.5 (Class II Composting Facility Design and Operations Plan: Operations) is being amended by revising paragraphs (B) - Financial Assurance and (K) - Personnel Training to read as follows:
215 216	SECTION 14.3 - CLASS II COMPOSTING FACILITIES
217 218	*****
219 220 221	14.3.5 Class II Composting Facility Design and Operations Plan: Operations
222 223	Class II composting facilities must comply with their Department-approved EDOP. The EDOP must include the following operation requirements:
224 225 226	*****
227 228 229 230	(B) Financial Assurance : The EDOP for a <u>A</u> Class II composting facility must include have 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.
231 232	*****
233 234 235 236 237 238 239	(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> <u>Class II compost facility must have at least one operator that has completed the following training:</u>

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

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289	
290	(K) Personnel Training: A Class III composting facility must operate under the control of properly
291	trained individuals. Personnel must be trained to recognize prohibited materials, take action when
292	nuisance conditions occur, and implement emergency procedures when necessary. The EDOP for a
293	Class III composting facility must describe how the facility will comply with these requirements. Each
294	Class III compost facility must have at least one operator that has completed the following training:
295	
296	(1) Certified operator training: Completion of a nationally recognized or equivalent training on
297	compost facility operations. A facility shall go no longer than twelve (12) months without having
298	an operator on staff that has completed this training.
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300	*****
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303	10) Section 14.6 (Sampling of Finished Compost and Soils Amendments) is being
304	amended by revising paragraphs (D) and (J) and adding a new paragraph (K) to read as
305	follows:
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307	
308	14.6 – SAMPLING OF FINISHED COMPOST AND SOILS AMENDMENTS
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310	*****
311	
312	(D) The owner or operator of a composting facility must ensure that:
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314	(1) The density of the fecal coliform present in the compost is less than 1000 Most Probable
315	Number per gram of total solids (dry weight basis); orand
316	ramber per gram er tetal conde (ary weight bacie), or <u>and</u>
317	(2) The density of Salmonella sp. bacteria in the compost is less than three (3) Most Probable
318	Number per four (4) grams of total solids (dry weight basis) at the time the compost is to be sold
319	or otherwise distributed for use; or
320	
321	(3) An owner/operator of a composting facility may receive an approval from the Department and
322	local governing authority for alternate testing after demonstrating how the alternative testing is
323	protective of human health and the environment.
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325	*****
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327	(J) Unrestricted Use: Compost that satisfies the levels specified in Table 1 and all other parameters
328	identified by the Department per Section 14.6 is determined by these criteria to be finished compost
329	and acceptable for unrestricted use. The finished compost is considered to be a product not a waste,
330	and is no longer subject to these Solid Waste Regulations, except that storage of finished compost
331	may only occur in designated areas identified in a facility's operations plan. For those additional
332	constituents identified by the Department under Section 14.6 and not found on Table 1, the
333	Department will approve protective unrestricted use constituent concentrations.
334	
335	(K) Soil amendments approved in accordance with Section 14.6(C) must meet the Department
336	approved criteria at the time of distribution. Storage of soil amendments that do not meet the
337	unrestricted use criteria must be stored in a manner that is protective of human health and the
338	environment and in accordance with the facility's operations plan. Storage of liquid soil amendments
1999	

Proposed Section 14 Composting Amendments February 20, 2024 S&HW Commission Hearing Page 7 of 8 339on 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 3 43 changes within 14.6(D) within 12 months of the effective date of this revision. 44 In Section 14.2.1, which applies to Class I Compost Facilities, the following changes are being 46 proposed: 14.2.1(B) Under the proposed revisions, a Class I compost facility may accept up to 5,000 cubic 50 vards of Type 1 feedstocks, food residuals and food processing vegetative waste from offsite sources. Previously, this facility type could only process food waste that was generated onsite. 54 14.2.1(C) 55 This section is being modified to include as a Class I compost facility any agriculturally 56 zoned compost facility that accepts Type 1 feedstocks, food residuals and food processing vegetative waste from offsite, and composts them together with agricultural 58 materials generated onsite. This facility can have no more than 5,000 cubic yards of 59 source separated organics onsite and in-process at any given time, and must be 60 composted in an area of two acres or less. 62 14.2.1(D) The section pertaining to an agriculturally zoned composting operation, formerly in 64 14.2.1(C), has moved here. 65 66 Section 14.2.3 addresses Class I Composting Facility Design Requirements. Under the proposed 67 changes, surface water controls 14.2.3(A)(2)(b) have been modified to allow for alternate contact 68 water management systems, and clarifications in sections 14.2.3(A)(2)(c), 14.2.3(A)(2)(d), and 69 14.2.3(A)(2)(e) have been made as to which features are considered engineered. Subsection 70 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. 74 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 76 waste to the list of acceptable materials for facilities under 14.2.1(B) and 14.2.1(C). 78 Section 14.2.4(K), which covers personnel training, now requires that the new operations 79 allowed under Section 14.2.1(B) and 14.2.1(C) have a certified operator. This modification is 80 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. 84 85 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. 86 and can instead be submitted under separate cover. Cost estimates are not typically required until 88 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.

In Section 14.1.5 the existing compliance schedule is being replaced to reflect the changes

revision for the operator training requirements in Sections 14.2.4(K)(1), 14.3.5(K)(1), and

proposed by this revision. Compliance is required within twelve months of the effective date of this

14.4.5(K)(1). Additionally, facilities with an EDOP must update their sampling plans to reflect the

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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	
100	The Castien 14.6 (Complian of Finished Compact and Caile Amendments) are as follows:
101	The Section 14.6 (Sampling of Finished Compost and Soils Amendments) are as follows:
	44.0(D) . Finished as a set would be a smalled for both for all of the main and
103 104	14.6(D) – Finished compost must now be sampled for both fecal coliform and
	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.
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124	Regulatory Alternatives
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	No other requilators often stilled was such as a lasted
126	No other regulatory alternatives were evaluated.
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128	<u>Cost/Benefit Analysis</u>
129	A cost-benefit analysis will be performed if requested by the Colorado Department of Regulatory
130	Agencies.
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