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1	Chapter 28, Changes Made Since 6/19/20
2	
3	
4	Section2
5	
6	• At paragraph (c)(ii), added language in response to Wexpro's comment to allow for
7	inclusion of generator knowledge.
8	
9	Section 8
10	
11	• At the list following paragraph (a), clarified that the reporting components need to be
12	submitted for the previous calendar year, in response to Wexpro's comment.
13	
14	• At paragraph (a)(vii), corrected the cross reference from 11(g) to 11(f)(i).
15	Section 10
16 17	Section 10
17 18	• At percent (a) moved the percent $(a)(i)(A)$ to the end of $(a)(ii)$ to connect on
18 19	• At paragraph (a), moved the passage at (a)(ii)(A) to the end of (a)(ii) to correct an outline numbering error.
20	outime numbering error.
20	• At paragraph (b), moved the passage at (b)(i) to the end of (b) to correct an outline
21	numbering error.
23	
23	
- ·	

25	CHAPTER 28						
26 27	STANDADDS FOD ISSUINC DEDMITS FOD COMMEDCIAL OH FIELD WASTE						
27 28	STANDARDS FOR ISSUING PERMITS FOR COMMERCIAL OILFIELD WASTE DISPOSAL FACILITIES						
28 29	DISI OSAL FACILITIES						
30	Section 1. Authority.						
31							
32	This rule is promulgated pursuant to the Wyoming Environmental Quality Act, Wyoming						
33	Statutes (W.S.) § 35-11-101 through § 35-11-2005, specifically W.S.§ 35-11-301(a) (i), W.S.§						
34 25	35-11-301(a)(iii), W.S. § 35-11-302(a)(iii), W.S.§ 35-11-306, and W.S.§ 35-11-307.						
35 36	Section 2. Applicability.						
30 37	Section 2. Applicability.						
38	(a) This Chapter contains the minimum standards for the design and construction of						
39	commercial oilfield waste disposal facilities that are required to obtain a permit under W.S. § 35-						
40	11-301(a)(iii), W.S. § 35-11-306, and Water Quality Rules and Regulations Chapter 3. In						
41	addition, this Chapter contains operation, monitoring, and reporting requirements for commercial						
42	oilfield waste disposal facilities.						
43							
44 45	(i) All applicants for a Water Quality Rules and Regulations Chapter 3 permit						
43 46	to construct, install, modify, or operate a commercial oilfield waste disposal facility shall meet all minimum standards of this Chapter.						
47	an minimum standards of this Chapter.						
48	(ii) No permit to construct, install, modify, or operate a commercial oilfield						
49	waste disposal facility shall be issued to a facility that does not meet the minimum standards of						
50	this Chapter.						
51							
52	(iii) All commercial oilfield waste disposal facilities shall be constructed,						
53	installed, and operated in accordance with permits issued pursuant to this Chapter.						
54							
55 56	(b) The installation of any component of a commercial oilfield waste disposal facility						
50 57	requires a permit to construct.						
58	(c) Commercial oilfield waste disposal facilities are authorized to accept exempt						
59	exploration and production (E&P) wastes.						
60							
61	(i) Non-exempt, non-hazardous waste may be approved on a case-by-case						
62	basis, at the permittee's request.						
63							
64	(ii) The Division requires hazardous waste characteristic analysis of all non-						
65	exempt wastes proposed to be disposed of at a commercial oilfield waste disposal facility.						

66	Additional <u>or reduced</u> sampling may be required by the Division based on the type of waste to be					
67	disposed and the generator's knowledge of the waste, including waste origin, composition, the					
68	process producing the waste, feedstock, and other reliable and relevant information. If any of the					
69	hazardous waste regulatory levels are exceeded, the wastes shall be disposed at a facility					
70	approved to accept hazardous wastes.					
71						
72	(d) Pursuant to the provisions of W.S. § 35-11-109 (a)(ii) and W.S. § 35-11-					
73	1104(a)(iii), while subject to the requirements of the Wyoming Environmental Quality Act,					
74	noncommercial oilfield waste disposal facilities permitted by the Wyoming Oil and Gas					
75	Conservation Commission, are exempt from the requirements of this Chapter.					
76						
77	Section 3. Timing of Compliance with These Regulations.					
78						
79	Any facility covered by an individual permit issued pursuant to Water Quality Rules and					
80	Regulations, Chapter 3, prior to the effective date of this chapter shall remain covered under that					
81	permit. New construction or modification of existing permitted facilities must obtain					
82	authorization under a new permit, in accordance with Water Quality Rules and Regulations					
83	Chapter 3, Section 9(a)(iii), subject to the requirements of this Chapter.					
84						
85	Section 4. Definitions					
86						
87	(a) The definitions in this Section supplement those definitions contained in W.S. §					
88	35-11-103 of the Wyoming Environmental Quality Act.					
89						
90	(b) "Commercial oilfield waste disposal facility" (COWDF) means a facility that:					
91						
92	(i) Receives or has received produced water, exempt exploration and					
93	production waste, or non-hazardous non-exempt wastes approved by the Department, for					
94	treatment, storage, or disposal in pits, evaporation ponds, or surface impoundments; and					
95						
96	(ii) Receives or has received produced water, exploration and production					
97	waste, or other approved wastes from persons other than the owners and operators of the facility.					
98						
99	(c) "Exempt exploration and production (E&P) waste(s)" means drilling fluids,					
100	produced waters, and other wastewater associated with the exploration, development, or					
101	production of crude oil, natural gas or geothermal energy that are solid wastes but that are not					
102	identified as hazardous wastes under 40 CFR § 261.4(b)(5).					
103						
104	(d) "Groundwater" means subsurface water that fills available openings in rock or					
105	soil materials such that they may be considered water saturated under hydrostatic pressure.					
106						

107 108	Sectio	n 5.	Facilities and Systems not Specifically Covered by these Standards.			
108	(a)	Each a	application for a permit to construct a facility under this section shall be			
110	evaluated on a case-by-case basis using the best available technology. The Water Quality					
111	Division (Division) may approve applications demonstrating the constructed facility can meet					
112			ct and this Chapter.			
113						
114	(b)	The fo	ollowing information shall be included with the application for a permit to			
115	construct, inst	all, mo	dify, or operate a commercial oilfield waste disposal facility not specifically			
116	covered by the	ese star	ndards:			
117						
118		(i)	Data obtained from a full scale, comparable installation that demonstrates			
119	the acceptabil	ity of tl	he design; or			
120						
121		(ii)	Data obtained from a pilot plant operated under the design condition for a			
122	sufficient leng	gth of ti	me to demonstrate the acceptability of the design; or			
123						
124		(iii)	Data obtained from a theoretical evaluation of the design demonstrates a			
125	reasonable pro	obabilit	y that the facility will meet the design objectives.			
126						
127		(iv)	An evaluation of the flexibility of making corrective changes to the			
128	constructed fa	cility ii	n the event it does not function as planned.			
129		TC				
130	(c)		applicant wishes to construct a pilot plant to provide the data necessary to			
131 132	meet the requi	iremen	ts of this Section, then the applicant must obtain a permit to construct.			
132	Sectio	n 6	Site Switchility			
133	Sectio	п о.	Site Suitability.			
135	(a)	The a	pplicant shall demonstrate that the proposed facility location complies with			
136	W.S. § 35-11-					
137	0					
138	(b)	Addit	ionally, the applicant shall demonstrate that the proposed facility location:			
139						
140		(i)	Is positioned so that the depth to highest seasonal groundwater is at least			
141	five (5) feet be	elow th	e secondary liner;			
142						
143		(ii)	Is outside of the 100-year floodplain of surface waters of the State; and			
144						
145		(iii)	Is not within ephemeral drainages into which natural runoff may flow or			
146	enter.					
147						

148	Section 7.	Permits, Permit Application, and Recordkeeping Requirements.		
149 150	(a) Applie	cations for a permit to construct, install, modify, or operate a commercial		
150		al facility shall meet the requirements of Water Quality Rules and		
151	Regulations Chapter			
152	Regulations Chapter	5, Section 0.		
155	(b) The a	pplication shall:		
155	(6) The u	phounon shan.		
156	(i)	Include signatures of:		
157	(-)			
158		(A) The surface estate owner of record or legal designee authorizing		
159	legal access, or docu	mentation of right of way in cases of state or federal land ownership; and		
160	10841 4000000, 01 40004			
161		(B) The operator.		
162				
163	(ii)	Include the following components:		
164		or i the second s		
165		(A) An engineering design report that meets the requirements of		
166	Section 9 of this Cha			
167				
168		(B) A construction plan that meets the requirements of Section 10 of		
169	this Chapter;			
170	1			
171		(C) Monitoring and reporting that meet the requirements of Section 11		
172	of this Chapter;			
173	I <sup>r</sup>			
174		(D) An operation and maintenance plan that meets the requirements of		
175	Section 12 of this Ch	apter; and		
176				
177		(E) Closure and post-closure plans that meet the requirements of Water		
178	Quality Rules and Regulations Chapter 14, Section 3 and a corrective action plan that meets the			
179	requirements of Wate	er Quality Rules and Regulations Chapter 14, Section 4.		
180				
181	(iii)	Be submitted to the Division in a format required by the Administrator,		
182	including plans, spec	ifications, design data, or other pertinent information covering the project,		
183	and any additional in	formation required by the Administrator.		
184				
185	(iv)	Include certification under penalty of perjury that the applicant has		
186	secured and will main	ntain permission for Department personnel and their invitees to access the		
187	facility, including per	rmission to:		
188				

189			(A)	Access the land where the facility is located;
190			<b>(D</b> )	Called measured later of the three WLC SC 2.414, and
191			(B)	Collect resource data as defined by W. S. § 6-3-414; and
192 193			(C)	Enter and cross all properties necessary to access the facility if the
195 194	facility canno	t ha dira		essed from a public road.
194	Tachity Calillo	t be une		lessed nom a public road.
195	Sectio	n 8.	Annua	al Reporting Requirements
197	Seemo			a reporting requirements
198	(a)	The pe	rmittee	shall submit to the Division by April 1 of each year an annual
199	report that inc	-		
200	Ĩ			
201		(i)	The na	me of the facility, the Division issued COWDF identification
202	number, the n	ame of t		er, the reporting contact, and permit numbers for the facility;
203				
204		(ii)	Descri	ption of any modification and operation details of the facility from
205	the previous of	alendar		ny anticipated construction, modification, or operational changes for
206	the upcoming		-	
207	1 0			
208		(iii)	A discu	ussion and analysis of the groundwater monitoring results, including
209	a graph of the	last five	e (5) yea	ars of data in a format approved by the Administrator;
210	U I			
211		(iv)	A discu	ussion and analysis of the leak detection monitoring results from the
212	previous cale	ndar yea		ny corrective actions taken;
213	-			
214		(v)	Annua	l sampling results of evaporation ponds <u>from the previous calendar</u>
215	year;			
216				
217		(vi)	The an	nual revised cost estimates for closure, post-closure, and corrective
218	action, and the	e financi	ial assu	rance instruments that are required in Water Quality Rules and
219	Regulations C	Chapter 1	14, Sect	ions 3 and 4; and
220	-	-		
221		(vii)	Waster	water transfer records from the previous calendar year, as required
222	by Section 11	<del>(g)</del> 11(f	) <u>(i)</u> of th	nis Chapter.
223	-			-
224	<u>(</u> b)	Report	ing requ	uirements are subject to modification by the Administrator.
225				
226	Sectio	n 9.	Engin	eering Design Report.
227			2	
228	(a)	An eng	gineerin	g design report is required for each permit application and shall
229	include:			

220			
230			
231	(i)	A des	scription of the facility site and location including:
232			
233		(A)	The legal description of the present and projected facility property
234	boundary, including	existing	g and proposed buildings and facilities; and
235			
236		(B)	The surface and mineral owner(s) of record.
237			
238	(ii) A ge	otechnic	al report for the proposed site that includes:
239			
240		(A)	Groundwater information, including the depth to groundwater;
241			
242		(B)	A summary of all subsurface investigations;
243			
244		(C)	A subsurface soil profile;
245		(-)	r i,
246		(D)	Exploration logs;
247		(2)	Emploration 10gs,
248		(E)	Laboratory or in-situ test results;
249		(L)	Europation y of million test results,
250		(F)	Interpretation and analysis of subsurface investigations;
250		(1)	interpretation and analysis of substitute investigations,
252		(G)	Specific engineering recommendations for design; and
252		( <b>0</b> )	specific engineering recommendations for design, and
255 254		(H)	Solutions or discussion of anticipated problems.
255		(11)	solutions of discussion of anticipated problems.
255 256	(iii)	A dat	ailed description of the types of waste(s) to be accepted at the facility
250 257			ted to, the following:
258	that includes, but is	not mm	ted to, the following.
258 259		(A)	Produced water;
260		(A)	Tioduced water,
260		(B)	Well completion and stimulation products;
262		(D)	wen completion and sumulation products,
262		$(\mathbf{C})$	Wester from production concreters:
263 264		(C)	Wastes from production separators;
264 265		(D)	Gas plant dehydration wastes;
265		(D)	Cas plant dellydration wastes,
260 267		$(\mathbf{E})$	Cos plant awastoning waston and
		(E)	Gas plant sweetening wastes; and
268		$(\mathbf{F})$	
269		(F)	A list of anticipated generators of the waste(s);
270	(:)	A .1	anintian of design and divisors that in dest
271	(iv)	A des	scription of design conditions that includes:
272			Identification of nominal sufferences that ( ) ( ) [ ]
273	· · · · · · · · · · · · · · · · · · ·	(A)	Identification of required performance characteristics of all
274	construction materia	us;	
275			

276 277	requirements for all:	(B)	The type, size, strength, operating characteristics, rating or
278	1		
279 280			(I) Mechanical and electrical equipment;
281 282			(II) Laboratory fixtures and equipment;
283			(III) Operating tools; and
284 285			(IV) Chemicals (where used).
286			
287		(C)	Construction and installation procedures;
288 289		$(\mathbf{D})$	Testing requirements to ensure motorials and equipment most
289 290	design standards;	(D)	Testing requirements to ensure materials and equipment meet
290	uesign standarus,		
292		(E)	Waste treatment, storage, and disposal methods; and
293		(L)	waste treatment, storage, and disposar methods, and
294		(F)	Summary of operation procedures.
295		(-)	
296	(v)	A geo	logic report, signed and sealed by a Wyoming Professional
297		0	h W.S. § 33-41-115(c), that includes:
298	U		
299		(A)	A stratigraphic column that illustrates the thickness and geologic
300	names of alluvial mat	erials a	and geologic formations that comprise the unsaturated, or vadose,
301	zone;		
302			
303		(B)	A description of the lithology and hydraulic conductivity of
304	materials and geologi	c forma	ations comprising the unsaturated zone, the first encountered
305	groundwater, and the	uppern	nost aquifer underlying the proposed facility;
306			
307		(C)	A potentiometric map of the uppermost water bearing zone
308	beneath the facility the	nat:	
309			
310			(I) Illustrates the locations and use of all wells within one (1)
311			, clearly identifying those wells producing in whole, or in part, from
312	the uppermost water	bearing	zone, and including project borings or wells; and
313			
314			(II) Includes a description of the uppermost aquifer in terms of
315	its relative confineme	ent, peri	meability, and porosity.
316		D	
317	(vi)		mentation that the proposed facility will comply with Water Quality
318	Rules and Regulation	is Chap	ter 3, Section 18;
319	(:)	٨	poling and analysis plan that activities the manifesting manifest and
320 321	(vii) Section 11 of this Ch		ppling and analysis plan that satisfies the monitoring requirements of
341	Section 11 of this Ch	apier, a	mu

322				
323		(viii)	Detail	s of the leak detection system that satisfies the requirements of
324	Section 11 of			· · · · · · · · · · · · · · · · · · ·
325				
326	(b)	Engin	eering d	lesign drawings are required for each permit application and shall
327	include:	0	0	
328				
329		(i)	On ead	ch page:
330		(-)	011 000	F. 6.
331			(A)	A suitable title block that includes the applicant's name, facility
332	name, and Di	ivision a	~ /	COWDF identification number, and the revision date and number;
333	and			
334	und			
335			(B)	The seal and signature of the Wyoming Professional Engineer.
336			(D)	The sear and signature of the Wyonning Professional Engineer.
337		(ii)	A plar	set that includes:
338		(11)	i piu	
339			(A)	A scaled site plan; and
340			(11)	T source she pluit, and
341			(B)	A cover sheet with an index as the first page of each plan set.
342			(D)	Theoret sheet with an index as the first page of each plan set.
343		(iii)	The fo	llowing components:
344		(111)	The re	nowing components.
345			(A)	North arrow and drawing scale;
346			()	
347			(B)	Legend;
348			(-)	8,
349			(C)	Fencing and security;
350			(-)	
351			(D)	Topographic features and contours with indicated datum;
352				, i · o · i
353			(E)	Soil and subsurface geological characteristics;
354				
355			(F)	Location of soil borings, bedrock elevations, and seasonal high
356	groundwater	elevatio	ns;	
357	C		,	
358			(G)	Locations and dimensions of piping, including those in and under
359	buildings;			
360	C A			
361			(H)	The location of all cross-sections and profiles, which shall be
362	identified in	the plan	views;	•
363		-		
364			(I)	Locations of buildings, evaporation ponds, pits, tanks, utilities, and
365	roads;			
366				

367			(J)	Scaled geologic cross-sections with the evaporation ponds'
368	geometry, me	onitoring	g wells,	borings, and groundwater observations (if present) superimposed on
369	the geologic	cross-se	ctions;	
370				
371			(K)	Present and proposed access, including a map of the access
372	route(s) to th	e facility	y from t	he nearest public road;
373				
374	<b>1</b>		(L)	The distances to occupied dwelling buildings or school buildings;
375	and			
376 377			(M)	Prevailing wind direction.
378			$(\mathbf{W})$	Flevalling wind direction.
379	Section	on 10.	Minir	num Design and Construction Standards.
380	Seett	on 10.		num Design und Construction Standards.
381	(a)	Recei	ving fac	cility and phase separation facility designs shall meet the following
382	standards:	Recci	ing inc	They and phase separation facility designs shan meet the following
	stanuarus.			
383		$\langle \cdot \rangle$	<b>.</b>	
384		(i)	-	d hydrocarbons shall be removed from wastewater before it is
385	discharged to	the eva	poratio	n ponds.
386				
387		(ii)	All op	ben-topped tanks in the receiving facility and the phase separation
388	facility shall	be cove	red with	n netting, screen, or other approved method to prevent the entry of
389	birds and oth	er wildl	ife. <u>The</u>	netting, screen, or approved covering shall be constructed to remain
390	intact and ab	ove the	surface	of the liquid in the tank even during winds up to eighty (80) mph, or
391	when weight	ed with	snow, io	ce, or rain.
392				
393			<del>(A)</del>	The netting, screen, or approved covering shall be constructed to
394	remain intact	and abo	<u>/</u>	surface of the liquid in the tank even during winds up to eighty (80)
395				sarraee of the right in the tank even during white up to eight (00)
396	mpn, or when	ii weigin		
	(1-)	Τ	1	
397	(b)	-		ds and other wildlife, evaporation ponds shall be kept virtually oil
398				ompletely netted or screened to the standards required for open-
399			<u>arbon s</u>	sheen on any part of the evaporation ponds shall be removed
400	immediately.	÷		
401				
402		<u>(i)</u>	Hydre	carbon sheen on any part of the evaporation ponds shall be removed
403	immediately.			
404	-			
405	(c)	The fa	cility d	esign shall meet the following earthwork standards:
406	(-)			<i>6 </i>
407		(i)	Fores	aporation ponds specified to be lined with a geomembrane liner:
408		(1)	10100	aporation ponds spectrica to be miled with a geomemorate miler.
-100				

409	(A) Rocks larger than six (6) inches in length shall not be placed within						
410	five (5) feet of the interior slope of any evaporation pond embankment. All rocks and other						
411	material that could damage the geomembrane shall be removed from the surface to be covered						
412	with the geomembrane;						
413							
414	(B) Material containing by volume less than twenty-five (25%) percent						
415	of rock larger than six (6) inches and less than twelve (12) inches in length may be placed in the						
416	remainder of the embankment.						
417							
418	(ii) Outer dike slopes shall not be steeper than a ratio of one (1) vertical to						
419	three (3) horizontal in order to prevent surface runoff from entering the evaporation ponds. The						
420	Administrator may require flatter slopes to maintain slope stability.						
421							
422	(iii) Inner dike slopes shall be between a ratio of one (1) vertical to four (4)						
423	horizontal and one (1) vertical to three (3) horizontal.						
424							
425	(iv) The minimum top dike width shall be twelve (12) feet to allow access to						
426	maintenance vehicles. Top dikes wider than twelve (12) feet shall be required when necessary to						
427	ensure structural stability.						
428							
429	(v) Freeboard design shall comply with the following requirements:						
430							
431	(A) The minimum freeboard at the maximum operating level shall be						
432	three (3) feet.						
433							
434	(B) In order to prevent unauthorized discharges to the air, land or						
435	Waters of the State, the Administrator may require increased freeboard, on a case-by-case basis,						
436	in order to compensate for wave action due to evaporation pond design, meteorological, or						
437	topographic conditions that may exceed the proposed freeboard.						
438							
439	(d) The facility design shall meet the following liner base, primary and secondary						
440	liner, and leak detection system standards:						
441							
442	(i) All evaporation ponds shall be constructed with a compacted clay						
443	secondary liner base or a geosynthetic clay secondary liner base that is contoured to include						
444	individual sub-cells that can be isolated if a leak is detected, as required in Section						
445	10(d)(iv)(C)(I).						
446							

447 Compacted clay secondary liner bases shall be a minimum of one (A) 448 (1) foot thick with a maximum permeability of 1 X 10-5 cm/sec and shall be constructed with 449 maximum compacted lifts of one-half (1/2) foot. 450 451 (I) Tests for water content and density shall be taken during 452 the placement of each lift of the liner base. 453 454 1. Either permeability testing of undisturbed core 455 samples from the in-place seal or detailed tests such as particle size distribution and Atterberg 456 limits shall be conducted. 457 458 2. Detailed tests shall confirm that the soil specified 459 was used for liner construction. One (1) test shall be conducted per acre per lift. For core 460 sampling of the in-place liner, one (1) core of the completed liner shall be tested per acre. 461 462 3. The permittee shall provide the Division a written 463 certification by a Wyoming Professional Engineer that the base was constructed according to the permit and that final testing indicated results within the allowable limits established by the 464 465 permit. 466 467 (II) For compacted clay secondary liner bases, a method of 468 maintaining the seal at or above optimum moisture conditions is required. 469 470 **(B)** Geosynthetic clay secondary liner bases installed according to the 471 manufacturer's instructions are acceptable, provided that: 472 473 Geosynthetic clay liner bases shall have a maximum **(I)** 474 hydraulic conductivity of 1 X 10-8 cm/sec; 475 476 The manufacturer of the geosynthetic clay liner base shall (II) 477 have more than ten million square feet of their product installed; 478 479 The geosynthetic clay liner base installation contractor (III) 480 shall be approved by the manufacturer; and 481 482 (IV) Geosynthetic clay liners that are used as secondary liner 483 bases require surface erosion and abrasion protection and shall be protected during installation consistent with the manufacturer's requirements. If interior pond slopes steeper than 3:1 484 485 horizontal to vertical are proposed, the factor of safety for slope failure on the composite liner 486 shall be shown to be at least 1.5:1.

487 488 489	(C) Handling, installation, and testing of geosynthetic clay liners shall be in accordance with the following specifications:
490	be in decordance with the following specifications.
490 491	(I) ASTM D5887/D5887M-16;
492	
493	(II) ASTM D5888-19;
494	
495	(III) ASTM D5889/D5889M-18;
496	
497	(IV) ASTM D5890-19;
498	
499	(V) ASTM D5891/D5891M-19;
500	
501	(VI) ASTM D5993-18;
502	
503	(VII) ASTM D6072/D6072M-19;
504	
505	(VIII) ASTM D6102-15;
506	
507	(IX) ASTM D6243/D6243M-16;
508	
509	(X) ASTM D6788-02(2017);
510	
511	(XI) ASTM D6495/D6495M-18;
512	
513	(XII) ASTM D6768/D6768M-19;
514	
515	(XIII) ASTM D6496/D6496M-19;
516	
517	(XIV) ASTM D6243; and
518	
519	(XV) GRI GCL3.
520	
521	(ii) All evaporation ponds shall be constructed with a high-density
522	polyethylene (HDPE) geomembrane secondary liner that shall have a minimum thickness of 40
523	mils.
524	
525	(A) HDPE geomembrane liners that conform to Geosynthetic
526	Research Institute Standard Specification GRI-GM13, are acceptable.

527 528 529	(B) H accordance with the following s		-	allation, and testing of HDPE liners shall be in
530		r)	CDI CI	
531 522	(]	l)	GRI GI	M13;
532 533	(1	(I)	GRI GI	MQ
535 534	()	(1)	UKI UI	w17,
535	a	III)	ASTM	D751-19;
536	,	,		
537	()	[V)	ASTM	D792-13;
538				
539	(*	V)	ASTM	D814-95(2020);
540				
541	C	VI)	ASTM	D882-18;
542 543		VII)	лсти	D1004-13;
544 544	(	v 11)	ASIM	D1004-15,
545	C	VIII)	ASTM	D1203-16;
546	``			,
547	(1	IX)	ASTM	D1204-14;
548				
549	(2	X)	ASTM	D1505-18;
550				
551	(2	XI)	ASTM	D1593-19;
552 553		XII)	лсти	D1603-14;
555 554	(2	AII)	ASIM	D1003-14,
555	С	XIII)	ASTM	D1790-14;
556	ς-	,,		,
557	(2	XIV)	ASTM	D3895-19;
558				
559	(2	XV)	ASTM	D4218-15;
560				
561		XVI)	ASTM	D4833/D4833M-07(2013);
562	/		ለ ፍጥኑ #	D5100 12/2010).
563 564		ΔVII)	ASIM	D5199-12(2019);
565	C	XVIII	)	ASTM D5321/D5321M-20;
566			/	

567			(XIX) ASTM	1 D5397-19a;
568				
569			(XX) ASTN	1 D5596-03(2016);
570				
571			(XXI) ASTN	1 D5721-08(2018);
572				1 DE005/DE005N1 17.
573			(XXII) ASTN	1 D5885/D5885M-17;
574 575				4.87M D5004/D5004N4 10/2015)-1.
575 576			(XXIII)	ASTM D5994/D5994M-10(2015)e1;
577			(XXIV)	ASTM D6392-12(2018);
578			$(\mathbf{A}\mathbf{A}\mathbf{I}\mathbf{V})$	AS1W D0392-12(2018),
579			(XXV)	ASTM D6497/D6497M-02(2015)e1;
580			$(\mathbf{M},\mathbf{v})$	AS IN DOT // DOT // N-02(2013)01,
581			(XXVI)	ASTM D6693/D6693M-04(2015)e1;
582			(1111)	
583			(XXVII)	ASTM D7466/D7466M-10(2015)e1; and
584				
585			(XXVIII)	ASTM D7238-06(2017)07/01/2017.
586				
587		(C)	The liner man	ufacturer shall have more than ten million square feet
588	of their product instal	lled.		
589				
590		(D)	Geomembran	e liners installed and operated according to this
591	Section shall not allo	w a disc	charge to groun	dwater by direct or indirect discharge, percolation or
592	infiltration.			
593				
594	(iii)	All ev	aporation pond	s shall be constructed with a leak detection system
595	that when installed, s	hall allo	ow monitoring	as required in Section 11(b) of this Chapter.
596				
597	(iv)		-	stem shall include drainage layers between the
598		ry liners	s that shall have	e a minimum hydraulic transmissivity of one (1)
599	gpm/foot.			
600				
601		(A)	Synthetic drai	inage media may be used.
602				
603		(B)	The drainage	layer shall have a minimum grade of four-tenths of
604	one percent $(0.4 \%)$ .			
605				

606 (C) Perforated or slotted collection lines shall be installed in the 607 drainage layer arranged to create sub-cells with a maximum area of two (2) acres or less. 608 609 (I) Collection lines shall be configured to isolate sub-cells in 610 the collection system for the purpose of locating leaks. 611 612 (II) No portion of the drainage layer shall be more than 140 feet 613 from a collection line. 614 615 The collection lines shall drain to a sump contained by the (D) 616 secondary liner. 617 618 **(I)** The sump shall be designed so that the maximum high 619 liquid level during operating conditions is below the invert of any collection line discharging to 620 the sump. 621 622 The sump shall be large enough to allow a pump to be (II)623 installed to remove all fluid from the sump. 624 625 (v) All evaporation ponds shall be constructed with a primary liner that shall 626 be an HDPE geomembrane liner with a minimum thickness of sixty (60) mils. 627 628 (A) HDPE geomembrane liners shall conform to Geosynthetic 629 Research Institute Standard Specification GRI-GM13; 630 631 (B) Handling, installation, and testing of HDPE liners shall meet the requirements of paragraph (d)(ii)(B) of this Section; 632 633 634 (C) The liner manufacturer shall have more than ten million square feet 635 of their product installed; 636 637 (D) Geomembrane liners installed and operated according to this 638 subparagraph shall not allow a discharge to groundwater by direct or indirect discharge, 639 percolation, or filtration. 640 641 Section 11. Monitoring and Reporting Requirements. 642 643 (a) All applications for a permit to construct shall include: 644 645 (i) Documentation that demonstrates the groundwater monitoring wells 646 comply with the construction standards of Water Quality Rules and Regulations Chapter 26;

647			
648		(ii)	Either the information required by Water Quality Rules and Regulations
649	Chapter 3, Se	ection 17(	(a) or the information required by Water Quality Rules and Regulations
650	· · ·		(b)(ii) through (viii);
651	I /	·	
652		(iii)	The ambient groundwater quality information for all monitoring wells for
653	the Departme	. ,	to determine the groundwater class of use;
654			
655			(A) The monitoring wells shall be sampled and tested prior to any
656	wastewater d		nto the evaporation ponds; and
657		r	···· ··· ··· ··· ···· ··· ··· ··· ···
658			(B) The monitoring wells shall be sampled and tested one (1) time for
659	the parameter		n Water Quality Rules and Regulations, Chapter 8, Table 1.
660	the parameter	10 110000 1	n Water Quarty Hares and Regulations, Onapter 6, Table I.
661		(iv)	A groundwater monitoring program as required by Water Quality Rules
662	and Regulation		ter 3, Section 17(d) and (e), and plans for record-keeping and reporting.
663	una regulation	ono enup	ter e, seedon 17(a) and (e), and plans for record heeping and reporting.
664		(v)	The operational monitoring plan shall include a sampling and analysis
665	plan for each		
666	plan for each	evapora	ion pone.
667			(A) The sampling and analysis plan shall identify the evaporation pond
668	locations and		nodology to be used to conduct monitoring at the evaporation ponds; and
669	locations and	the meth	iodology to be used to conduct monitoring at the evaporation poinds, and
670			(B) The analyte list and monitoring frequency are subject to revision as
671	required by th	he Admir	
672	required by th		instruct.
673	(b)	After a	pproval by the Administrator, the monitoring program shall be
674		-	nit condition to ensure compliance with Water Quality Rules and
675	-	-	B, Section $4(d)(v)(A)$ and Section $4(d)(vi)(A)$ .
676	Regulations		
677	(c)	All mo	nitoring shall be conducted in accordance with an Administrator-approved
678	· · ·		plan. The sampling and analysis plans shall be included as part of the
679	1 0	•	ance (O&M) Plan.
680	operation and	i mamen	
681	(d)	I eak da	etection system monitoring.
682	(u)	LCak u	election system monitoring.
683		(i)	The leak detection system's inspection pipes shall be inspected weekly for
684	the first mont	. ,	onthly thereafter.
685	the first mont		Julity thereafter.
686		(;;)	The permittee shall keep a log of the inspection results. If fluid is found:
687		(ii)	The permittee shall keep a log of the inspection results. If fluid is found:
688			(A) The permittee shall notify the Administrator within twenty-four
689	(24) hours of		
	(24) Hours of	uiscover	y.
690 601			(R) The operator shall obtain complex from the inspection pines and
691 692	the avenanti		(B) The operator shall obtain samples from the inspection pipes and that have been tested, in accordance with US EPA SW 846, for total
092	the evaporation	on cen(s)	) that have been tested, in accordance with US EPA SW-846, for total

693	•			, ,	dified for gasoline and diesel range hydrocarbons), chlorides,
694	total dissolve	ed solids	(TDS) a	and sul	fates.
695					
696			(C)	The p	ermittee shall report the sample results to the Administrator
697	as soon as the	ey are av	ailable.		
698					
699	(e)	Within	n ten (10	)) days	of discovering a leak or fluid in the leak detection system,
700	the permittee	shall su	bmit a p	olan and	d schedule to investigate the leak and repair the liner.
701					
702	(f)	Facilit	ies that	transfe	r wastewater shall:
703					
704		(i)	Mainta	ain writ	ten records of all wastewater transfers that include:
705					
706			(A)	The d	ate(s) of transfer;
707					
708			(B)	The v	olume of wastewater to be transferred;
709					
710			(C)	A des	cription of the method of transfer;
711					
712			(D)	-	y of the written agreement(s) between the facility and the
713	receiving par	ties that	will be	accepti	ng the wastewater for reuse that identifies:
714					
715				(I)	The name, address, legal description by latitude and
716	longitude, an	d teleph	one nun	iber for	the receiving party;
717					
718				(II)	The receiving party's intended use of the transferred
719	wastewater; a	and			
720					
721	_			(III)	The location(s) where the wastewater will be applied or
722	reused.				
723					
724		(ii)			te all records required in this section and make the records
725			-		s upon request. All records shall be compiled in an approved
726	format and sh	hall be in	ncluded	in the a	annual report, as required by Section 8(a)(vii) of this Chapter;
727	~ .				
728	Section	on 12.	Opera	tion a	nd Maintenance Plan.
729					
730	(a)	An op	eration	and ma	intenance (O&M) plan is required for each new or modified
731	facility and s	hall incl	ude the	followi	ng information:
732					
733		(i)	An int	roducti	on that includes an overview of the facility and operational
734	nrocesses.	(1)	1 111 1110		
	processes;				
735		/••×	D	a	
736		(ii)	Proces	s flow	diagram;
737					

738	(iii)	Wastewater receiving procedures, including procedures for refusing loads
739	that may not confor	m to permit requirements or facility policies;
740	<i>.</i>	
741	(iv)	Copies of all state and federal permits associated with the facility;
742		
743	(v)	Record keeping and reporting procedures;
744		
745	(vi)	Planned work and facility operation schedules;
746	()	
747	(vii)	Staffing and management structure;
748		
749	(viii)	Maintenance and inspection procedures;
750	<i>(</i> • )	
751	(ix)	Sampling and analysis plans for groundwater monitoring, evaporation
752	pond monitoring, ai	nd leak detection system monitoring; and
753	<i>.</i>	
754	(ix)	A contingency plan that includes:
755		
756		(A) A discussion of how hazards to human health and the environment
757		n case of fires, explosions, or unplanned sudden or non-sudden release of
758	waste or waste cons	tituents to soil, surface water, or groundwater;
759		
760	1 • . 1	(B) Procedures for notifying appropriate State or local agencies with
761	designated response	e roles; and
762		
763	•	(C) Reporting thresholds, response procedures, and recordkeeping
764 765	requirements for sp	ills, fires, explosions, and other possible failures.
765		$O_{2}M$ also shall be each with data the Division with the Cicles (50.0()) as most
766		O&M plan shall be submitted to the Division prior to fifty (50 %) percent
767	1	ruction. Administrator approval of the final O&M plan is required prior to
768	any water disposal	nto evaporation ponds.
769	G (* 12	
770 771	Section 13.	Public Participation, Public Notice, and Public Hearing
772	Requirements.	
773	(a) The	Administrator shall give public notice for any of the following actions:
774	(u) 1110	realized of the public notice for any of the following actions.
775	(i)	The Administrator has prepared a draft permit that is intended for
776	issuance.	The realization has prepared a drart permit that is intended for
777	issuuriee.	
778	(ii)	The Administrator intends to modify a permit.
, 10	(11)	The rammistator mends to moury a permit.

779 780		(iii)	The Department intends to schedule a hearing.
781			
782	(b)		dministrator shall include a thirty (30) day public comment period for any
783			, or (a)(ii) of this Section, and shall provide at least thirty (30) days' public
784	notice before	any hea	aring held pursuant to paragraph (a)(iii) of this Section.
785			
786	(c)	Public	c notice shall be given by:
787			
788		(i)	Mailing a copy of the notice to the applicant, by certified or registered
789	mail.		
790			
791		(ii)	Mailing a copy of the notice to the following:
792			
793			(A) Bureau of Land Management;
794 705			
795 796			(B) Wyoming Oil and Gas Conservation Commission;
797			(C) Wyoming Game and Fish Department;
798			(c) A young came and I fon Deparament,
799			(D) Wyoming State Engineer; and
800			
801	1 1 6	••••	(E) Any unit of local government having jurisdiction over the area
802	where the fac	ility is j	proposed to be located.
803 804		(iii)	Electronic notification of the notice to those individuals that subscribe to
805	the Division'	~ /	onic notification list;
805	the Division	s ciccui	me notification list,
807		(iv)	Publication of the notice in a newspaper of general circulation in the
808	location of th	. ,	y or operation.
808 809	location of th		y or operation.
810	(d)	Δll m	blic notices issued under this Chapter shall contain the following minimum
811	information:	An pi	one notices issued under this enapter shan contain the following minimum
812	information.		
813		(i)	Name and address of the Department;
813		(1)	rune and address of the Department,
815		(ii)	Name and address of the permittee or permit applicant, and, if different, of
816	the facility or		y regulated by the permit;
817	the fueling of		regulated by the permit,
818		(iii)	A brief description of the business conducted at the facility or activity
819	described in t	` ´	nit application or the draft permit;
820		Perm	ar appression of the start permit,
020			

821		(iv)	Name, address and telephone number of a person from whom interested
822	persons may	obtain f	urther information, including, where applicable, copies of the draft permit,
823	statement of b	basis, fa	ct sheet, and the application;
824			
825		(v)	A brief description of comment procedures, procedures to request a
826	hearing; and		
827			
828		(vi)	Any additional information required by the Administrator.
829			
830	(e)	In add	lition to the information required in paragraph (d) of this Section, any notice
831	for a public h	earing s	shall contain the following:
832			
833		(i)	Reference to the date of previous public notices relating to the permit;
834			
835		(ii)	Date, time and place of the hearing; and
836			
837		(iii)	A brief description of the nature and purpose of the hearing.
838			
839	(f)	The D	Department shall provide an opportunity for the applicant, permittee, or any
840	interested per	son to s	submit written comments regarding permit issuance, modification, or to
841	request a pub	lic hear	ing.
842			
843	(g)	Durin	g the public comment period, any interested person may submit written
844	comments on	the dra	ft permit and may request a public hearing, in writing to the Administrator
845	and shall state	e the rea	asons for the request.
846			
847	(h)	The D	Director shall render a decision on the draft permit within thirty (30) days
848	-		he comment period if no hearing is requested. If a hearing is held, the
849	Director shall	make a	a decision on any Department hearing as soon as practicable after receipt of
850	the transcript	or after	the expiration of the time set to receive written comments.
851			
852	(i)		time a final decision is issued, the Department shall respond, in writing, to
853			ived during the public comment period and comments received during the
854	allotted time	for a he	aring held by the Department. This response shall:
855			
856		(i)	Specify any changes that have been made to the permit; and
857			
858		(ii)	Briefly describe and respond to all comments that express a regulatory
859	concern withi	n the au	athority of the Department to regulate.
860			

861	(j)	The re	esponse to comments shall be available to the public.
862			
863 864	Sectio	n 14.	Incorporation by Reference.
865	(a)	The fo	ollowing codes, standards, rules, and regulations referenced in this Chapter
866	are incorporat	ed by r	eference:
867			
868		(i)	ASTM International Standard D1004-13, Standard Test Method for Tear
869	Resistance (G	raves T	<i>Tear) of Plastic Film and Sheeting</i> , April 1, 2013, referred to as "ASTM
870	D1004-13";		
871			
872		(ii)	ASTM International Standard D1203-16, Standard Test Methods for
873	Volatile Loss	from P	lastics Using Activated Carbon Methods, April 1, 2016, referred to as
874	"ASTM D120	)3-16";	
875			
876		(iii)	ASTM International Standard D1204-14, Standard Test Method for Linear
877	Dimensional	Change	es of Nonrigid Thermoplastic Sheeting or Film at Elevated Temperature,
878	March 1, 2014	4, refer	red to as "ASTM 1204-14";
879			
880		(iv)	ASTM International Standard D1505-18, Standard Test Method for
881	Density of Pla	ustics b	y the Density-Gradient Technique, May 10, 2018, referred to as "ASTM
882	D1505-18";		
883			
884		(v)	ASTM International Standard D1593-19, Standard Specification for
885	Nonrigid Viny	vl Chlor	ride Plastic Film and Sheeting, December 11, 2019, referred to as "ASTM
886	D1593-19";		
887			
888		(vi)	ASTM International Standard D1603-14, Standard Test Method for
889	Carbon Black	Conter	nt in Olefin Plastics, August 1, 2014, referred to as "ASTM D1603-14";
890			
891		(vii)	ASTM International Standard D1790-14, Standard Test Method for
892		mperat	ure of Plastic Sheeting by Impact, October 1, 2014, referred to as "ASTM
893	D1790-14";		
894			
895		(viii)	ASTM International Standard D3895-19, Standard Test Method for
896			Time of Polyolefins by Differential Scanning Calorimetry, June 25, 2019,
897	referred to as	"ASTN	4 D3895-19";
898			
899		(ix)	ASTM International Standard D4218-15, Standard Test Method for
900		•	rbon Black Content in Polyethylene Compounds By the Muffle-Furnace
901	Technique, De	ecembe	or 1, 2015, referred to as "ASTM D4218-15";

902	
903	(x) ASTM International Standard D4833/D4833M-07(2013), <i>Standard Test</i>
904	Method for Index Puncture Resistance of Geomembranes and Related Products, May 1, 2013,
905	referred to as "ASTM D4833/D4833M-07(2013)";
906	
907	(xi) ASTM International Standard D5199-12(2019), Standard Test Method for
908	Measuring the Nominal Thickness of Geosynthetics, June 21, 2019, referred to as "ASTM
909	D5199-12(2019)";
910	
911	(xii) ASTM International Standard D5321/D5321M-20, Standard Test Method
912	for Determining the Shear Strength of Soil-Geosynthetic and Geosynthetic-Geosynthetic
913	Interfaces by Direct Shear, March 3, 2020, referred to as "ASTM D5321/D5321M-20";
914	
915	(xiii) ASTM International Standard D5397-19a, Standard Test Method for
916	Evaluation of Stress Crack Resistance of Polyolefin Geomembranes Using Notched Constant
917	Tensile Load Test, October 18, 2019, referred to as "ASTM D5397-19a";
918	
919	(xiv) ASTM International Standard D5596-03(2016), Standard Test Method
920	For Microscopic Evaluation of the Dispersion of Carbon Black in Polyolefin Geosynthetics, June
921	1, 2016, referred to as "ASTM D5596-03(2016)";
922	
923	(xv) ASTM International Standard D5721-08(2018), Standard Practice for Air-
924	Oven Aging of Polyolefin Geomembranes, June 8, 2018, referred to as "ASTM D5721-
925	08(2018)";
926	
927	(xvi) ASTM International Standard D5885/D5885M-17, Standard Test Method
928	for Oxidative Induction Time of Polyolefin Geosynthetics by High-Pressure Differential
929	Scanning Calorimetry, June 1, 2017, referred to as "ASTM D5885/D5885M-17";
930	
931	(xvii) ASTM International Standard D5887/D5887M-16, Standard Test Method
932	for Measurement of Index Flux Through Saturated Geosynthetic Clay Liner Specimens Using a
933	Flexible Wall Permeameter, September 1, 2016, referred to as "ASTM D5887/D5887M-16";
934	
935	(xviii) ASTM International Standard D5888-19, Standard Guide for Storage and
936	Handling of Geosynthetic Clay Liners, May 19, 2019, referred to as "ASTM D5888-19";
937	
938	(xix) ASTM International Standard D5889/D5889M-18, Standard Practice for
939	Quality Control of Geosynthetic Clay Liners, March 9, 2018, referred to as "ASTM
940	D5889/D5889M-18";
941	

942	(xx) ASTM International Standard D5890-19, Standard Test Method for Swell
943	Index of Clay Mineral Component of Geosynthetic Clay Liners, May 30, 2019, referred to as
944	"ASTM D5890-19";
945	
946	(xxi) ASTM International Standard D5891/D5891M-19, Standard Test Method
947	for Fluid Loss of Clay Component of Geosynthetic Clay Liners, August 23, 2019, referred to as
948	"ASTM D5891/D5891M-19";
949	
950	(xxii) ASTM International Standard D5993-18, Standard Test Method for
951	Measuring Mass per Unit Area of Geosynthetic Clay Liners, June 15, 2018, referred to as
952	"ASTM D5993-18";
953	
954	(xxiii) ASTM International Standard D5994/D5994M-10(2015)e1, Standard Test
955	Method for Measuring Core Thickness of Textured Geomembranes, May 1, 2015, referred to as
956	"ASTM D5994/D5994M-10(2015)e1";
957	
958	(xxiv) ASTM International Standard D6072/D6072M-19, Standard Practice for
959	Obtaining Samples of Geosynthetic Clay Liners, January 8, 2019, referred to as "ASTM
960	D6072/D6072M-19";
961	
962	(xxv) ASTM International Standard D6102-15, Standard Guide for Installation
963	of Geosynthetic Clay Liners, May 1, 2015, referred to as "ASTM D6102-15";
964	
965	(xxvi) ASTM International Standard D6243 Standard, Test Method for
966	Determining the Internal and Interface Shear Strength of Geosynthetic Clay Liner by the Direct
967	Shear Method, January 1, 2016, referred to as "ASTM D6243";
968	
969	(xxvii) ASTM International Standard D6243/D6243M-16, Standard Test Method
970	for Determining the Internal and Interface Shear Strength of Geosynthetic Clay Liner by the
971	Direct Shear Method, January 1, 2016, referred to as "ASTM D6243/D6243M-16";
972	
973	(xxviii)ASTM International Standard D6392-12(2018), Standard Test Method for
974	Determining the Integrity of Nonreinforced Geomembrane Seams Produced Using Thermo-
975	Fusion Methods, February 15, 2018, referred to as "ASTM D6392-12(2018)";
976	
977	(xxix) ASTM International Standard D6495/D6495M-18, Standard Guide for
978	Acceptance Testing Requirements for Geosynthetic Clay Liners, March 9, 2018, referred to as
979	"ASTM D6495/D6495M-18";
980	

981	(xxx) ASTM International Standard D6496/D6496M-19, Standard Test Method
982	for Determining Average Bonding Peel Strength Between Top and Bottom Layers of Needle-
983	Punched Geosynthetic Clay Liners, May 9, 2019, referred to as "ASTM D6496/D6496M-19";
984	
985	(xxxi) ASTM International Standard D6497/D6497M-02(2015)e1, Standard
986	Guide for Mechanical Attachment of Geomembrane to Penetrations or Structures, May 1, 2015,
987	referred to as "ASTM D6497/D6497M-02(2015)e1";
988	
989	(xxxii) ASTM International Standard D6693/D6693M-04(2015)e1, Standard Test
990	Method for Determining Tensile Properties of Nonreinforced Polyethylene and Nonreinforced
991	Flexible Polypropylene Geomembranes, May 1, 2015, referred to as "ASTM D6693/D6693M-
992	04(2015)e1";
993	
994	(xxxiii)ASTM International Standard D6768/D6768M-19, Standard Test Method
995	for Tensile Strength of Geosynthetic Clay Liners, May 9, 2019, referred to as "ASTM
996	D6768/D6768M-19";
997	
998	(xxxiv)ASTM International Standard D6788-02(2017), Standard Specification for
999	Repositionable Pressure-Sensitive Flags, September 1, 2017, referred to as "ASTM D6788-
1000	02(2017)";
1001	
1002	(xxxv) ASTM International Standard D7238-06(2017), Standard Test Method for
1003	Effect of Exposure of Unreinforced Polyolefin Geomembrane Using Fluorescent UV
1004	Condensation Apparatus, July 1, 2017, referred to as "ASTM D7238-06(2017)";
1005	
1006	(xxxvi)ASTM International Standard D7466/D7466M-10(2015)e1, Standard Test
1007	Method for Measuring Asperity Height of Textured Geomembranes, May 1, 2015, referred to as
1008	"ASTM D7466/D7466M-10(2015)e1";
1009	
1010	(xxxvii) ASTM International Standard D751-19, Standard Test Methods for
1011	Coated Fabrics, May 22, 2019, referred to as "ASTM D751-19";
1012	
1013	(xxxviii) ASTM International Standard D792-13, Standard Test Methods for
1014	Density and Specific Gravity (Relative Density) of Plastics by Displacement, November 1, 2013,
1015	referred to as "ASTM D792-13";
1016	
1017	(xxxix)ASTM International Standard D814-95(2020), Standard Test Method for
1018	Rubber Property-Vapor Transmission of Volatile Liquids, February 26, 2020, referred to as
1019	"ASTM D814-95(2020)";
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1021 (xxxx) ASTM International Standard D882-18, Standard Test Method for Tensile 1022 Properties of Thin Plastic Sheeting, August 16, 2018, referred to as "ASTM D882-18"; 1023 1024 (xxxxi)Code of Federal Regulations 40 CFR § 261.4(b)(5), in effect as of July 28, 1025 1994, available at: http://www.ecfr.gov; 1026 1027 Geosynthetic Research Institute Standard Specification GRI-(xxxxii) 1028 GCL3, Test Methods, Required Properties, and Testing Frequencies of Geosynthetic Clay Liners (GCLs), as revised on July 26, 2010, referred to as "GRI-GCL3"; 1029 1030 1031 Geosynthetic Research Institute Standard Specification GRI-GM9, (xxxxiii) 1032 Cold Weather Seaming of Geomembranes, as revised on January 10, 2013, referred to as "GRI-1033 GM9": 1034 1035 (xxxxiv) Geosynthetic Research Institute Standard Specification GRI-1036 GM13, Test Methods, Test Properties and Testing Frequency for High Density Polyethylene (HDPE) Smooth and Textured Geomembranes, as revised on January 6, 2016, referred to as 1037 "GRI-GM13"; 1038 1039 1040 (XXXXV) Test Methods for Evaluating Solid Waste: Physical/Chemical 1041 Methods Compendium (SW-846), published by the United States Environmental Protection 1042 Agency, as revised July 2014, referred to as "US EPA SW-846". 1043 For these rules incorporated by reference: 1044 (b) 1045 1046 (i) The Environmental Quality Council has determined that incorporation of 1047 the full text in these rules would be cumbersome or inefficient given the length or nature of the 1048 rules. 1049 1050 This Chapter does not incorporate later amendments or editions of (ii) incorporated codes, standards, rules, and regulations. 1051 1052 1053 All incorporated codes, standards, rules, and regulations are available for (iii) 1054 public inspection at the Department's Chevenne office. Contact information for the Chevenne 1055 office may be obtained at http://deq.wyoming.gov or from (307) 777-7937.