

CHAPTER 4

CONSTRUCTION/ AND DEMOLITION LANDFILL REGULATIONS

Section 1. In General.

(a) Authority: The authority for the rules and regulations promulgated in this chapter is the Wyoming Environmental Quality Act (Act), Wyoming Statute (W.S.) 35-11-101 et seq.

~~————(b) Applicability: This chapter governs construction/demolition landfills~~

~~————(c) Objective: The objective of these rules and regulations is to set forth permit application requirements and to establish minimum standards for the location, design, construction, operation, monitoring, closure and post-closure maintenance of construction/demolition landfills.~~

~~————(d) Severability: If any section or provision of these regulations, or the application of that section or provision to any person, situation, or circumstance is adjudged invalid for any reason, the adjudication does not affect any other section or provision of these regulations or the application of the adjudicated section or provision to any other person, situation or circumstance. The Environmental Quality Council declares that it would have adopted the valid portions and applications of these regulations without the invalid part, and to this end the provisions of these regulations are declared to be severable.~~

~~————(e) Reserved.~~

(~~f~~b) One-time or emergency disposal authorization: The one-time or emergency disposal authorization procedure described in Chapter 1, ~~Section 5~~, will be considered for the land disposal of construction/demolition wastes.

(~~a~~c) Permit transition: ~~The following rules concerning permit application submittals under Chapter 1, Section 2 will apply.~~

(i) For existing facilities:

(A) Existing facilities that ~~have~~ received wastes after the effective date of these regulations and do not have a permit issued for the life of the facility: The operator ~~of any construction/demolition facility~~ shall submit a renewal or closure permit application one (1) year before the existing permit or authorization expires., ~~unless the operator elects to close the facility before January 1, 1990 as specified by the Department, but no later than January 1, 1992.~~

(B) Existing facilities that have not received wastes after the effective date of these regulations: The operator may be required to submit a closure permit application upon request by the ~~Department~~Administrator. The ~~Department~~Administrator

47 may request such an application whenever the ~~Department~~Administrator has reason to
48 believe that health and safety hazards are present; or there has been evidence of
49 environmental contamination; ~~or the facility does not comply with the location, monitoring,~~
50 ~~closure or post-closure standards.~~

51
52 (ii) For new facilities: The operator of any new facility shall submit a
53 permit application in accordance with the permit application procedures specified in Chapter
54 1, ~~Section 2 or Chapter 1, Section 5.~~

55
56 (iii) For closing facilities:
57
58 (A) Anticipated closure: The operator of a facility with a valid
59 permit ~~on the effective date of these regulations or a valid permit or renewal permit issued~~
60 ~~under Section 2(b) or Section 2(e) of this chapter,~~ shall submit a closure permit application to
61 the Department ~~between 270 and 180 days~~at least twelve (12) months prior to the anticipated
62 ~~facility~~closure date, unless the Administrator approves interim measures with delayed final
63 closure for good cause upon application by the operator.

64
65 (B) Unanticipated closure: In the event any ~~solid waste disposal~~
66 facility ceases operation, as determined by nonreceipt of solid wastes for any continuous nine
67 month period, the ~~facility~~operator shall provide written notification to the
68 ~~Department~~Administrator no later than thirty (30) days after the end of such nine (9) month
69 period. This notification shall be accompanied by a closure permit application unless the
70 ~~Department~~Administrator approves interim measures with delayed final closure for good
71 cause upon application by the operator.

72
73 ~~(iv) All construction/demolition landfills shall be subject to the standards~~
74 ~~contained in the Wyoming Solid Waste Management Rules and Regulations, 1975, until such~~
75 ~~time as they are permitted under Chapter 1, Section 2.~~

76
77 (ed) Permit terms:

78
79 (i) Permits for new~~Construction/demolition~~ landfills ~~permits~~ will be
80 issued for ~~a six-year term~~the operating life of the facility, through closure.

81
82 (ii) Renewal permits ~~for construction/demolition landfills~~ will be issued
83 for ~~six-year terms~~the operating life of the facility, through closure.

84
85 (iii) Closure permits will be issued for a period that includes the time
86 required to complete closure activities and a minimum five year post-closure term. The
87 closure permit period will extend until the ~~Department~~Administrator finds that ~~the~~ facility
88 ~~has been adequately stabilized and the environmental monitoring or control systems have~~
89 ~~demonstrated that the facility~~ closure is protective of human health and the environment
90 consistent with the purposes of the ~~a~~Act. If, following receipt of documentation from the
91 operator, the Administrator determines that all closure and post-closure activities have been
92 completed and closure is protective of human health and the environment, the permit shall be

93 terminated as specified in Chapter 1.

94 ~~_____ (f) Financial assurance requirement: Any operator of a construction/demolition~~
95 ~~landfill subject to the financial assurance requirements of Chapter 7 shall provide adequate~~
96 ~~assurance of financial responsibility as specified therein, prior to issuance of a permit by the~~
97 ~~Department.~~

98 (e) Definitions: The definitions in W.S. 35-11-103(a) and (d) of the Wyoming
99 Environmental Quality Act and the definitions in Solid Waste Rules and Regulations Chapter
100 1 apply to these rules.

101
102
103 **Section 2. ~~Construction/Demolition Landfill~~ Permit Application Requirements.**

104
105 ~~(b)~~ a) Permit application requirements:

106
107 (i) Permit applications for new facilities and renewal permit applications
108 shall contain a completed application form and a written report containing the applicable
109 information in Sections 3 through 17 of this chapter. Records and supporting documents
110 such as well logs, maps, cross-sections, and monitoring reports should generally be included
111 in the written report as appendices.

112
113 (ii) All permit application forms shall be signed by the operator, the land
114 owner and any real property lien holder of public record. All applications shall be signed by
115 the operator under oath subject to penalty of perjury. All persons signing the application
116 shall be duly authorized agents. The following persons are considered duly authorized
117 agents:

118
119 (A) For a municipality, state, federal or other public agency, by the
120 head of the agency or ranking elected official.;

121
122 (B) For corporations, at least two principal officers.;

123
124 (C) For a sole proprietorship or partnership, a proprietor or general
125 partner, respectively.

126
127 (iii) All permit applications shall be prepared under the supervision of a
128 professional engineer registered in the State of Wyoming. All permit application forms shall
129 be stamped, signed and dated by a professional engineer. In addition, all portions of the
130 permit application that require geological services or work shall be stamped, signed and
131 dated by a professional geologist licensed by the State of Wyoming. ~~_____ (ii) The~~
132 ~~permit application shall contain a completed application form and the information required in~~
133 ~~this subsection.~~

134
135 ~~_____ (A) A written report shall be submitted containing the following~~
136 ~~information:~~

137
138 ~~_____ (I) The name, address and telephone number of the legal~~

139 operator of the facility to whom the permit would be issued, and a listing of any
140 administrative order, civil or administrative penalty assessment, bond forfeiture,
141 misdemeanor or felony conviction, or court proceeding, for any violations of any local, state
142 or federal law relating to environmental quality or criminal racketeering, in which the
143 applicant (including any partners in a partnership or executive officers in any corporation, if
144 the applicant is a partnership or corporation) has been or is currently involved; _____
145 _____

146 _____
147 _____(II) Name, address and telephone number of the solid waste
148 manager. A description of the training and examination program, to be used by the operator
149 to assure compliance with the requirements of Chapter 4, Section 5 (c), shall be included.
150 The description shall include a specific listing of the training courses and the required
151 frequency of attendance of each course by the solid waste manager;

152 _____
153 _____(III) Legal description of the property to be used as a disposal
154 site. The complete legal description shall consist of a plat and legal description, monumented
155 and signed in accordance with Wyoming statutes by a Wyoming licensed land surveyor;

156 _____
157 _____(IV) A brief narrative describing the disposal facility. The
158 narrative should include the size of the facility, the type of waste disposal activities that are
159 planned (area fill, trench fill, special waste areas) and the type, amount and source of
160 incoming waste. The narrative should also describe the service area of the disposal facility,
161 facility access controls and restrictions, and waste screening procedures;

162 _____
163 _____(V) A brief narrative confirming the proposed facility
164 complies with applicable local land use or zoning requirements, including a brief description
165 of any such requirements;

166 _____
167 _____(VI) Information describing mineral ownership of the site,
168 surface ownership of the site and all lands within one mile of the facility boundary;

169 _____
170 _____(VII) Demonstration that the facility meets the minimum
171 location standards specified in Section 3 of this chapter, where applicable.

172 _____
173 _____(VIII) A summary description of available local geologic or
174 hydrologic information, including copies of all available well logs for wells located within
175 one mile of the proposed site. This description should include information on the depth to
176 the uppermost groundwater, groundwater aquifer thickness and hydrologic properties, and
177 the potentiometric surface. Supporting documentation such as well completion logs,
178 geologic cross sections, soil boring lithologic logs, potentiometric surface maps and soil or
179 groundwater testing data should be supplied as an appendix.

180 _____
181 _____(XI) Any information known to the applicant that would limit
182 the site's suitability as a construction/demolition landfill.

183 _____
184 _____(X) A detailed description of the facility operating procedures;

185 ~~site design and construction methods. The description shall include the following~~
186 ~~information:~~

187 _____
188 ~~(1.) The source of wastes and the type and quantity of~~
189 ~~waste (on a daily, weekly or monthly basis) that will be disposed at the facility;~~

190 _____
191 ~~(2.) Estimated site capacity and site life, including the~~
192 ~~calculations on which these estimates are based;~~

193 _____
194 ~~(3.) An evaluation of the facility's potential to impact~~
195 ~~surface and groundwater quality, based on the facility design and the hydrogeologic~~
196 ~~information required in subsection (b) (ii) (A) (VIII) of this section;~~

197 _____
198 ~~(4.) An evaluation of the availability of cover material~~
199 ~~sufficient to properly operate the facility through the closure period;~~

200 _____
201 ~~(5.) A description of fire and other emergency~~
202 ~~protection measures;~~

203 _____
204 ~~(6.) A description of the topsoil handling procedures to~~
205 ~~be used, including measures to be used to protect the piles from erosion;~~

206 _____
207 ~~(7.) A description of the signs that will be posted to~~
208 ~~identify the landfill and listing the information required in Section 4 (c) of this chapter;~~

209 _____
210 ~~(8.) A description of the litter control program, if~~
211 ~~applicable, including; the frequency for litter collection for internal fences, perimeter roads~~
212 ~~and off-site areas, special operating procedures to be used during periods of high wind and a~~
213 ~~summary of any wind speed and direction data available for the local area;~~

214 _____
215 ~~(9.) Type and amount of equipment to be provided at~~
216 ~~the site for excavating, earth moving, spreading, compaction and other needs; the specific~~
217 ~~purpose for each piece of equipment and the source and procedure used to obtain backup~~
218 ~~equipment;~~

219 _____
220 ~~(10.) Any other information necessary to demonstrate~~
221 ~~compliance with the design, construction and operating standards specified in Section 4 and~~
222 ~~Section 5 of this chapter.~~

223 _____
224 ~~(XI) Any other information necessary to demonstrate~~
225 ~~compliance with the monitoring standards specified in Section 6 of this chapter, when~~
226 ~~required.~~

227 _____
228 ~~(XII) A detailed descriptive statement of the closure/post-~~
229 ~~closure stage of landfill development, including the following information:~~

230 _____

231 ~~_____ (1.) A description of the land use anticipated after~~
232 ~~closure;~~
233
234 ~~_____ (2.) The wording of the deed notice;~~
235
236 ~~_____ (3.) If the facility is open to the public, a copy of the~~
237 ~~notice of closure;~~
238
239 ~~_____ (4.) A description of the final soil cover, as well as~~
240 ~~methods used to revegetate the site;~~
241
242 ~~_____ (5.) The method used to divert surface water from the~~
243 ~~site during the post closure period;~~
244
245 ~~_____ (6.) The methods by which surface erosion or water~~
246 ~~ponding problems will be corrected, including the frequency of planned inspections to~~
247 ~~discover such problems during the post closure period;~~
248
249 ~~_____ (7.) The method by which the operator will maintain~~
250 ~~access restrictions to any closed facility;~~
251
252 ~~_____ (8.) Any other information necessary to demonstrate~~
253 ~~compliance with the closure/post closure standards specified in Section 7 of this chapter.~~
254
255 ~~_____ (B) An original topographic map with a scale of 1:24,000 with the~~
256 ~~proposed facility location shown; an original USGS topographic map with a scale of~~
257 ~~1:62,500 or other suitable topographic map may be submitted if a 1:24,000 map is~~
258 ~~unavailable;~~
259
260 ~~_____ (C) A map or aerial photograph of the area shall be submitted~~
261 ~~showing land ownership, land use and zoning within one mile of the disposal site. The map~~
262 ~~or photograph shall be of sufficient scale to show all city boundaries, each occupied dwelling~~
263 ~~house, schools, hospitals, industrial buildings, water wells, water courses, road and other~~
264 ~~applicable details and shall indicate the general topography.~~
265
266 ~~_____ (D) A general facility plot plan at a scale not greater than 200 feet to~~
267 ~~the inch with maximum twenty foot contour intervals shall be submitted. The general facility~~
268 ~~plot plan shall at a minimum illustrate the following features:~~
269
270 ~~_____ (I) Facility boundaries including any buffer zones proposed~~
271 ~~between the solid waste boundary and the property boundary;~~
272
273 ~~_____ (II) Points of access;~~
274
275 ~~_____ (III) Locations of soil borings and groundwater monitoring~~
276 ~~wells, if applicable;~~

277
278 ~~—————(IV) Locations of proposed trenches or area fill locations;~~
279
280 ~~—————(V) Working area/perimeter fire lane;~~
281
282 ~~—————(VI) Working area/perimeter fence location;~~
283
284 ~~—————(E) Additional facility plot plans at the same scale as the general~~
285 ~~facility plot plan, shall be submitted as necessary to show orderly development and use of the~~
286 ~~facility through the life of the site. These plot plans shall at a minimum contain the~~
287 ~~following information:~~
288
289 ~~—————(I) Excavation plans for development of trenches or~~
290 ~~preparation of area fill locations;~~
291
292 ~~—————(II) Development of temporary surface water diversion~~
293 ~~structures which may be necessary to adequately control surface water run-on and run-off;~~
294
295 ~~—————(III) Access to active waste disposal areas, including~~
296 ~~development of internal roads;~~
297
298 ~~—————(IV) Cover stockpile locations;~~
299
300 ~~—————(V) Topsoil storage locations;~~
301
302 ~~—————(VI) Litter screen placement information, if applicable;~~
303
304 ~~—————(VII) Other details pertinent to the development and use of the~~
305 ~~facility.~~
306
307 ~~—————(F) As an alternative to subsection (b) (ii) (E) of this section, which~~
308 ~~requires site development plans to be supplied for the life of the site, the applicant may~~
309 ~~submit detailed site development plans to be supplied for the life of the site, the applicant~~
310 ~~may submit detailed site development plans containing information specified in subsection~~
311 ~~(b) (ii) (E) but covering only the first permit term.~~
312
313 ~~—————(G) A map showing proposed final contours prepared at a scale no~~
314 ~~greater than 200 feet to the inch, with five foot contour intervals, shall be submitted.~~
315
316 ~~—————(H) Cross sections and/or drawing details shall be submitted with~~
317 ~~sufficient specifications to describe:~~
318
319 ~~—————(I) Internal litter catch screens or fences, if applicable;~~
320
321 ~~—————(II) Working area/perimeter fencing;~~
322

- 323 ~~_____ (III) Access roads;~~
324
325 ~~_____ (IV) Trench or area fill method;~~
326
327 ~~_____ (V) Systems used for monitoring, collection, treatment and~~
328 ~~disposal of leachate, if required;~~
329
330 ~~_____ (VI) Groundwater monitoring well design;~~
331
332 ~~_____ (VII) Surface and subsurface drain systems to control run-on~~
333 ~~and run-off and or inflow;~~
334
335 ~~_____ (VIII) Any other design details requested by the Department.~~
336
337 ~~_____ (I) A record keeping log shall be maintained during the operating life~~
338 ~~and closure/post closure maintenance period.~~
339

340 (e**b**) Renewal application requirements:

341
342 ~~_____ (i) Facilities without a permit issued for the life of the facility shall submit a~~
343 ~~renewal application, shall be submitted~~ as required in Chapter 1, ~~Section 2 (e).~~

344
345 ~~_____ (A) Each renewal application submitted in accordance with the~~
346 ~~requirements of subsection (a) of this section, shall that~~ includes a compilation of previous
347 permit application materials and supplemental information updated and revised as necessary
348 to fulfill the information requirements specified in subsection (b) of this section, except for
349 ~~(b) (ii) (A) (VI), (b) (ii) (A) (VII) and (b) (ii) (A) (IX).~~

350
351 ~~_____ (B) Each renewal application submitted in accordance with the~~
352 ~~requirements of Chapter 1, Section 2 (e) (ii) shall include a copy of the approved permit~~
353 ~~application or the previous approved renewal permit application, with drawings and narrative~~
354 ~~updated and revised as necessary to document the facility operations and~~ activities carried
355 out during the ~~last permit term~~ previous permit periods. If such activities differ from those in
356 the approved permit or previous approved renewal permit, the narrative should describe the
357 minor changes and approved major amendments. ~~Renewal applications shall include a copy~~
358 ~~of the approved permit or renewal permit application or revisions to~~ The applicant has the
359 option to submit copies of only the updated and revised portion of the previous application, if
360 the revised and updated pages and drawings are appropriately numbered and dated to
361 facilitate incorporation into the previous permit ~~application~~ document. ~~Revisions to the~~
362 ~~previous application shall be clearly indicated.~~

363
364 ~~_____ (ii) All~~ renewal applications shall contain the following
365 information:

366
367 ~~_____ (A) Any necessary plan revisions for the upcoming~~
368 ~~permit renewal period~~ remaining life of the facility and ~~any~~ requests for approval of

369 amendments ~~which describe major changes in facility operation shall also be included;~~

370

371 _____ (B) Detailed construction and operation
372 specifications for the ~~upcoming permit period~~ remaining life of the facility, if such
373 specifications were not included in an approved facility permit application ~~submitted in~~
374 ~~accord with subsection (b) (ii) (D) of this section;~~

375

376 _____ (C) ~~Description of intermediate reclamation efforts,~~
377 ~~with evaluation of revegetation results;~~

378

379 _____ (D) ~~A description of steps taken to mitigate or correct~~
380 ~~practices that have resulted in past operational deficiencies.~~

381

382 (d) Closure permit application requirements:

383

384 _____ (i) ~~Closure permit applications shall be submitted as required in Section 2 (a)~~
385 ~~(iii) and Section 11. of this chapter. A copy of the pertinent materials from the approved~~
386 ~~permit application or approved renewal permit application, revised and updated as necessary,~~
387 ~~may be used to fulfill requirements (F) through (J). Each closure permit application shall~~
388 ~~contain the following information:~~

389

390 _____ (A) ~~A narrative describing the site operating history including the~~
391 ~~dates of operation, the disposal methods used and the types and amounts of waste accepted;~~

392

393 _____ (B) ~~A general facility plot plan at a scale not greater than 200 feet to~~
394 ~~the inch illustrating past areas of waste deposition, estimated dates of fill and any other~~
395 ~~pertinent features;~~

396

397 _____ (C) ~~Data on site geology and hydrology as specified in subsection (b)~~
398 ~~(ii) (A) (VIII);~~

399

400 _____ (D) ~~A map of the site area as specified in subsection (b) (ii) (C) of this~~
401 ~~section;~~

402

403 _____ (E) ~~An evaluation of the facility's potential to impact surface water~~
404 ~~and groundwater quality, based on hydrogeologic information and the facility's design and~~
405 ~~operating history.~~

406

407 _____ (F) ~~General site information specified in subsections (b) (ii) (A) (I)~~
408 ~~through (b) (ii) (A) (III) of this section;~~

409

410 _____ (G) ~~Environmental monitoring system information specified in~~
411 ~~Section 6 (b) of this chapter, if applicable;~~

412

413 _____ (H) ~~Closure/post closure information specified in subsection (b) (ii)~~
414 ~~(A) (XIII) of this section;~~

415
416 ~~_____ (I) A final contour map specified in subsection (b) (ii) (G) of this~~
417 ~~section;~~
418
419 ~~_____ (J) Any supporting documentation listed in subsection (b) (ii) (H) of~~
420 ~~this section pertinent to the closure/post-closure phase.~~
421
422 ~~_____ (e) Permit terms:~~
423
424 ~~_____ (i) Construction/demolition landfill permits will be issued for a six year term.~~
425
426 ~~_____ (ii) Renewal permits for construction/demolition landfills will be issued for~~
427 ~~six year terms.~~
428
429 ~~_____ (iii) Closure permits will be issued for a minimum five year term. The~~
430 ~~closure permit period will extend until the Department finds that the facility has been~~
431 ~~adequately stabilized and the environmental monitoring or control systems have~~
432 ~~demonstrated that the facility closure is protective of human health and the environment~~
433 ~~consistent with the purposes of the act.~~
434
435 ~~_____ (f) Financial assurance requirement: Any operator of a construction/demolition~~
436 ~~landfill subject to the financial assurance requirements of Chapter 7 shall provide adequate~~
437 ~~assurance of financial responsibility as specified therein, prior to issuance of a permit by the~~
438 ~~Department.~~

439
440 **Section 3. General Facility Information.**

441
442 **(Ia) Operator information:** The name, address and telephone number of the legal
443 operator of the facility to whom the permit would be issued, and a listing of any
444 administrative order, civil or administrative penalty assessment, bond forfeiture,
445 misdemeanor or felony conviction, or court proceeding, for any violations of any local, state
446 or federal law relating to environmental quality or criminal racketeering, in which the
447 applicant (including any partners in a partnership or executive officers in any corporation, if
448 the applicant is a partnership or corporation) has been or is currently involved.

449
450
451 **(Hb) Manager information:** ~~Name~~Position title, address and telephone number of
452 the solid waste manager. ~~A description of the training and examination program, to be used~~
453 ~~by the operator to assure compliance with the requirements of Chapter 4, Section 5 (e), shall~~
454 ~~be included. The description shall include a specific listing of the training courses and the~~
455 ~~required frequency of attendance of each course by the solid waste manager.~~

456
457 **(Hc) Legal description:** Legal description of the property to be used as a disposal
458 site. The complete legal description shall consist of a plat and legal description, monumented
459 and signed in accordance with Wyoming statutes by a Wyoming licensed land surveyor.

460

461 ~~(IVd) Facility narrative: A brief narrative describing the disposal facility. The~~
462 ~~narrative should include the size of the facility, the type of waste disposal activities that are~~
463 ~~planned (area fill, trench fill, special waste areas), and the type, amount and source of~~
464 ~~incoming waste. The narrative should also describe the service area of the disposal facility.,~~
465 ~~facility access controls and restrictions, and waste screening procedures;~~

466
467 ~~———— (V) A brief narrative confirming the proposed facility complies with applicable local~~
468 ~~land use or zoning requirements, including a brief description of any such requirements;~~

469
470 ~~(VIe) Surface and mineral ownership: Information describing surface and mineral~~
471 ~~ownership of the site, and surface ownership of ~~the site and~~ all lands within one (1) mile of~~
472 ~~the facility boundary;~~

473
474 ~~———— (VII) Demonstration that the facility meets the minimum location standards specified~~
475 ~~in Section 3 of this chapter, where applicable.~~

476
477 ~~———— (VIII) A summary description of available local geologic or~~
478 ~~hydrologic information, including copies of all available well logs for wells located within~~
479 ~~one mile of the proposed site. This description should include information on the depth to~~
480 ~~the uppermost groundwater, groundwater aquifer thickness and hydrologic properties, and~~
481 ~~the potentiometric surface. Supporting documentation such as well completion logs,~~
482 ~~geologic cross sections, soil boring lithologic logs, potentiometric surface maps and soil or~~
483 ~~groundwater testing data should be supplied as an appendix.~~

484
485 ~~———— (XI) Any information known to the applicant that would limit~~
486 ~~the site's suitability as a construction/demolition landfill.~~

487
488 ~~———— (X) A detailed description of the facility operating procedures,~~
489 ~~site design and construction methods. The description shall include the following~~
490 ~~information:~~

491
492 ~~———— (1.f) Source of wastes: The source of wastes and the~~
493 ~~type and quantity of waste (on a daily, weekly or monthly basis) that will be disposed at the~~
494 ~~facility.~~

495
496 ~~———— (2.g) Site capacity and life: Estimated site capacity~~
497 ~~and site life, including the calculations on which these estimates are based.~~

498
499 ~~———— (3.h) Potential to impact surface and groundwater~~
500 ~~quality: An evaluation of the facility's potential to impact surface and groundwater quality,~~
501 ~~based on the facility design and ~~the~~ hydrogeologic information, ~~required in subsection (b) (ii)~~~~
502 ~~(A) (VIII) of this section;~~

503
504 ~~———— (i) Access agreement: The application shall include the following access~~
505 ~~agreement:~~

506

507 (i) The owner of the facility authorizes Department representatives, upon
508 the presentation of credentials and other documents as may be required by law, to access and
509 enter upon the operator’s premises where a regulated facility or activity is located or
510 conducted, or where records must be kept under the conditions of a permit, authorization or
511 exemption; have access to and copy, at reasonable times, any records that must be kept under
512 the conditions of any permit, authorization or exemption; inspect at reasonable times any
513 facilities, equipment (including monitoring and control equipment), practices, or operations
514 regulated or required under the Act; and collect resource data, sample or monitor at
515 reasonable times, for the purposes of ensuring compliance or as otherwise authorized by the
516 appropriate rules and regulations of the Department, any substances or parameters at any
517 location.

518
519 **Section 34. Location Standards.**

520
521 (a) ~~Applicability~~ New facilities: New ~~construction/demolition landfills~~ facilities
522 and lateral expansions of existing ~~construction/demolition landfills~~ facilities shall not be
523 located in violation of W.S. 35-11-502(c) and the following standards: ~~described in this~~
524 ~~section.~~

525
526 (b)i) Local zoning ordinances: Facility locations shall not conflict with
527 local zoning ordinances or land use plans adopted by a county commission or municipality.

528
529 (b)ii) Wild and Scenic Rivers Act: Facility locations shall not diminish the
530 scenic, recreational and fish and wildlife values for any section of river designated for
531 protection under the Wild and Scenic Rivers Act, 16 USC 1271 et seq., and implementing
532 regulations.

533
534 (b)iii) National Historic Preservation Act: Facilities shall not be located in
535 areas where they may pose a threat to an irreplaceable historic or archeological site listed
536 pursuant to the National Historic Preservation Act, 16 USC 470 et seq. and implementing
537 regulations, or to a natural landmark designated by the National Park Service.

538
539 (b)iv) Endangered Species Act: Facilities shall not be located within a
540 critical habitat of an endangered or threatened species listed pursuant to the Endangered
541 Species Act, 16 USC 1531 et seq., and implementing regulations, where the facility may
542 cause destruction or adverse modification of the critical habitat, may jeopardize the
543 continued existence of endangered or threatened species or contribute to the taking of such
544 species.

545
546 (b)v) Big game winter range/grouse breeding grounds: Facilities shall not
547 be located within critical winter ranges for big game or breeding grounds for grouse, unless
548 after consultation with the Wyoming Game and Fish Department, the ~~d~~Director determines
549 that facility development, would not conflict with the conservation of Wyoming’s wildlife
550 resources.

551
552 ~~————(c) Distance to residences and other buildings: Except upon a variance granted by~~

553 ~~the Environmental Quality Council in accord with W.S. 35-11-502 (c), no facility greater~~
554 ~~than one (1) acre in size shall be located between 1,000 feet and one (1) mile of a public~~
555 ~~school except with the written consent of the school district board of trustees, or between~~
556 ~~1,000 feet and (1) mile of an occupied dwelling house except with the written consent of the~~
557 ~~owner. Additionally, facilities of any size shall not be located within 1,000 feet of any~~
558 ~~occupied dwelling house, school or hospital, and shall not be located within 300 feet of any~~
559 ~~building unless provisions have been made for protection from methane gas accumulation.~~

560
561 ~~————(d) Distance to roads and parks:~~

562
563 ~~————(i) Except upon a variance granted by the Environmental Quality Council in~~
564 ~~accord with W.S. 35-11-502 (c), no facility greater than one (1) acre in size shall be located~~
565 ~~between 1,000 feet and one half (1/2) mile of the center line of the right of way of a state or~~
566 ~~federal highway unless screened from view as approved by the Department. Additionally,~~
567 ~~facilities of any size shall not be located within 1,000 feet of any interstate primary highway~~
568 ~~right of way, unless the facility is screened from view by natural objects, plantings, fences or~~
569 ~~other appropriate means, and is authorized by the state highway commission in accord with~~
570 ~~provisions of the Junkyard Control Act, W.S. 33-19-103 et seq.~~

571
572 ~~————(ii) Facilities shall not be located within 1,000 feet of any public park or~~
573 ~~recreation area unless the facility is screened from view by natural objects, plantings, fences~~
574 ~~or other appropriate means.~~

575
576 ~~————(e) Distance to drinking water sources: Except upon a variance granted by the~~
577 ~~Environmental Quality Council in accord with W.S. 35-11-502 (c), no facility greater than~~
578 ~~one (1) acre in size shall be located between 1,000 feet and one half (1/2) mile of a water well~~
579 ~~permitted or certificated for domestic or stock watering purposes except with written consent~~
580 ~~of the owner of the permit or certificate. Additionally, facilities of any size shall not be~~
581 ~~located within 1,000 feet of any drinking water source such as a well or surface water intake.~~

582
583 ~~————(f) Distance to other surface waters:~~

584
585 ~~————(i) Facilities shall not be located within 500 feet of any perennial lake or~~
586 ~~pond, unless the applicant can adequately demonstrate to the Department that the facility will~~
587 ~~not affect the lake or pond.~~

588
589 ~~————(ii) Facilities shall not be located within 300 feet of any perennial river or~~
590 ~~stream, unless the applicant can adequately demonstrate to the Department that the facility~~
591 ~~will not affect the river or stream.~~

592
593 ~~————(g) Floodplains: Facilities shall not be located within the boundaries of a 100-year~~
594 ~~floodplain.~~

595
596 ~~————(h) Wetlands: Facilities shall not be located in wetlands.~~

597
598 ~~————(i) Wild and Scenic Rivers Act: Facility locations shall not diminish the scenic,~~

599 recreational and fish and wildlife values for any section of river designated for protection
600 under the Wild and Scenic Rivers Act, 16 USC 1271 et seq., and implementing regulations.

601
602 ~~————(j) National Historic Preservation Act: Facilities shall not be located in areas where~~
603 ~~they may pose a threat to an irreplaceable historic or archeological site listed pursuant to the~~
604 ~~National Historic Preservation Act, 16 USC 470 et seq. and implementing regulations, or to a~~
605 ~~natural landmark designated by the National Park Service.~~

606
607 ~~————(k) Endangered Species Act: Facilities shall not be located within a critical habitat of~~
608 ~~an endangered or threatened species listed pursuant to the Endangered Species Act, 16 USC~~
609 ~~1531 et seq., and implementing regulations, where the facility may cause destruction or~~
610 ~~adverse modification of the critical habitat, may jeopardize the continued existence of~~
611 ~~endangered or threatened species or contribute to the taking of such species.~~

612
613 ~~————(l) Big game winter range/grouse breeding grounds: Facilities shall not be located~~
614 ~~within critical winter ranges for big game or breeding grounds for grouse, unless after~~
615 ~~consultation with the Wyoming Game and Fish Department, the director determines that~~
616 ~~facility development, would not conflict with the conservation of Wyoming's wildlife~~
617 ~~resources.~~

618
619 ~~————(m) Hydrogeologic conditions: Facilities shall not be located in an area where the~~
620 ~~Department, after investigation by the applicant, finds that there is reasonable probability that~~
621 ~~solid waste disposal will have a detrimental affect on surface water or groundwater quality.~~

622
623 ~~————(n) Dust, odor and nuisance potential: Facilities shall not be located in an area~~
624 ~~determined by the Department to present a dust, odor or public nuisance potential, unless the~~
625 ~~facility operating plans required by Section 5 of this chapter specifically address appropriate~~
626 ~~control of the potential problems.~~

627
628 ~~————(o) Distance from incorporated cities or towns: Except upon a variance granted by~~
629 ~~the Environmental Quality Council in accord with W.S. 35-11-502 (c), no facility greater~~
630 ~~than one (1) acre in size shall be located within one (1) mile of the boundaries of an~~
631 ~~incorporated city or town.~~

632
633 (b) New units and lateral expansions:

634
635 (g*i*) Floodplains: FacilitiesNew units and lateral expansions shall not be
636 located within the boundaries of a 100-year floodplain.

637
638 (h*ii*) Wetlands: FacilitiesNew units and lateral expansions shall not be
639 located in wetlands.

640
641 (p*c*) Compliance with other standards: Facilities regulated under Chapter 6 or 8:
642 Facilities ~~which~~that are also subject to regulation under Chapter 6 or 8 of these rules and
643 regulations shall not be located in violation of the standards in ~~that e~~Chapters 6 or 8.

644

645 (d) Access roads: The roads leading to facilities shall not be subject to the
646 location standards described in this section.

647
648 **Section 5. Geology, ~~and~~ Hydrology, and Hydrogeology.**

649 ~~(H)~~^(H)(a) The application shall include a^A summary description of available local
651 geologic, ~~or~~ hydrologic, and hydrogeologic information, including copies of all available
652 well logs for wells located within one mile of the proposed site. This description ~~should~~^{shall}
653 include information on the depth to the uppermost groundwater, groundwater aquifer
654 thickness and hydrologic properties, and the potentiometric surface. Supporting
655 documentation such as well completion logs, geologic cross sections, soil boring lithologic
656 logs, potentiometric surface maps and soil or groundwater testing data should be supplied as
657 an appendix.

658
659 **Section 46. Design and Construction Standards:** ~~Each facility shall be~~
660 ~~designed and constructed in compliance with the standards listed in this section.~~

661
662 (a) Surveyed corners: All site boundary corners shall be surveyed and marked
663 with permanent survey caps.

664 ~~———— (b) Access restrictions:~~

665
666
667 ~~———— (i) The working area of all facilities shall be fenced in such a manner as to~~
668 ~~discourage people and livestock from entering the facility and to contain a majority of litter~~
669 ~~within the facility:~~

670
671 ~~———— (A) Additional fencing may be required to restrict access to reclaimed~~
672 ~~areas or other areas that may present public health and safety hazards;~~

673
674 ~~———— (B) If the facility is located on property which already has a restrictive~~
675 ~~perimeter fence, the requirement for a perimeter fence around the landfill may be waived.~~
676 ~~Additional fencing (i.e. litter collection fences) may still be required.~~

677
678 ~~———— (ii) If the public has access to the facility, any access roads shall be equipped~~
679 ~~with a gate which can be locked when the facility is unattended.~~

680
681 ~~(e)~~^(e) Posting standards: ~~If the facility is open to the public, e~~^EEach point of access
682 shall be identified by a sign, ~~which~~^{that} shall be easily readable, maintained in good condition
683 and ~~which~~^{that} contains at a minimum the following information:

684
685 (i) For facilities not open to the public:

686
687 (A) Identification of the facility as a solid waste landfill.

688
689 (B) Wastes accepted for disposal at the facility.

690

691 (C) The position title and phone number of the responsible person
692 to contact in the event of emergencies.

- 693
- 694 (ii) For public facilities:
- 695 (A) The facility name~~;~~.
- 696
- 697 (B) The ~~name~~position title and phone number of the responsible
698 person to contact in the event of emergencies~~;~~.
- 699
- 700 (C) The hours of operation~~;~~.
- 701
- 702 (D) Wastes accepted for disposal at the facility~~;~~.
- 703
- 704 (E) Identification of the facility as a public facility~~;~~.
- 705
- 706 (F) A requirement to notify the landfill operator of any asbestos
707 wastes.

708

709

710 ~~(d)~~ Access road standards: Facility access roads shall be constructed to enable
711 use under inclement weather conditions.

712

713 ~~——(e) Firelanes: All facilities shall have a fire lane which is a minimum of 10 feet wide~~
714 ~~around the active disposal area and within the working area/perimeter fence.~~

715

716 ~~(f)~~ Topsoil standards: Topsoil from all disturbed areas shall be stripped and
717 stockpiled in an area ~~which~~that will not be disturbed during facility operation. ~~Topsoil~~
718 ~~stockpiles shall be located such that they will not be disturbed by future operation of the~~
719 ~~landfill, until needed for reclamation purposes.~~ These stockpiles shall be identified by signs,
720 and vegetated ~~as required~~ for stabilization. This topsoil ~~will~~shall be used for site reclamation.
721 Topsoil shall not be removed from the facility without written authorization from the
722 Department.

723

724 ~~(g)~~ Structural stability: Engineering measures shall be incorporated into the
725 landfill design to ~~insure~~ ensure stability of structural components in unstable areas and
726 seismic impact zones.

727

728 ~~(h)~~ Surface water ~~run-off designs~~structures: Surface water diversion structures
729 ~~such as berms and ditches~~ shall be ~~properly~~ sized to ~~accommodate~~:

730

731 ~~——(i) collect and control runoff from the active portion of the landfill from at~~
732 ~~least the water volume resulting from a 24-hour, A 25-year storm and, 24-hour event for~~
733 ~~temporary structures anticipated to be used for periods less than 5 years;~~

734

735 ~~——(ii) A 100-year, 24-hour event for structures anticipated to be used for five~~
736 ~~years or longer.~~ prevent flow onto the active portion of the landfill during the peak discharge

737 from a 25-year storm.

738

739 (g) Sediment control: Sediment control structures shall be designed and constructed
740 in accordance with the Water Quality Division Rules and Regulations.

741

742 (h) Slope stability for excavations: Trench wall slopes shall not exceed a ratio of
743 1.5:1 (horizontal:vertical) unless a slope stability analysis demonstrates steeper slopes can be
744 safely constructed and maintained. This analysis may be based on site specific soil stability
745 calculations; or Wyoming Occupational Safety and Health Administration regulations for
746 excavations; ~~or on the operator's previous excavation experience in this locality.~~

747

748 ~~————(j) Litter control: Litter control measures will include provisions for litter catch~~
749 ~~screens and any other additional controls necessary to prevent the facility from becoming~~
750 ~~unsightly.~~

751

752 (k) Buffer zones: A buffer zone of at least 20 feet shall be maintained within the
753 perimeter boundary of each facility to allow proper reclamation. ~~(l) Control of active area:~~
754 ~~The facility shall be designed to limit dumping to the smallest practical area. Signs or other~~
755 ~~physical dumping barriers shall be available to direct dumping to the proper area, or the~~
756 ~~facility attendant shall assure that dumping is adequately defined.~~

757

758 ~~————(m) Storage and treatment standards: All facilities shall comply with minimum~~
759 ~~standards in Chapter 6 if applicable.~~

760 (4.j) Cover material: Sufficient~~An evaluation of the availability of~~ cover material
761 ~~sufficient~~ shall be available to properly operate the facility through the closure period.;

762

763 (k) Engineered containment:

764

765 (i) The Administrator may require an engineered containment system,
766 including a composite liner, leachate collection system, and final cover with a permeability
767 less than or equal to the permeability of the bottom liner system, in new units and lateral
768 expansions:

769

770 (A) If the facility design does not meet Department guidance or
771 equivalent methods approved ~~standards established~~ by the Administrator; or

772

773 (B) If the operator does not provide a performance-based design
774 that demonstrates ~~demonstration showing~~ The operator cannot demonstrate that
775 concentrations of pollutants will not exceed groundwater protection standards ~~for~~
776 constituents specified by the Administrator at a the relevant point of compliance established
777 by the Administrator that is no more than 150 meters (492 feet) from the waste management
778 unit boundary on land owned by the owner of the landfill.

779

780 (ii) Engineered containment systems, if required by the Administrator,
781 shall be designed and constructed as specified in Chapter 2, Section 7 (g) and (h).

782

783 **Section 57. Operating Standards.** ~~All facilities shall be operated in~~
784 ~~accordance with the standards described in this section.~~

785
786 (a) Litter control: ~~If the Department deems necessary, each facility~~ The operator
787 shall maintain a routine litter collection programs ~~to eliminate unsightly conditions. These~~
788 ~~routine programs shall take place both~~ within the landfill perimeter, ~~as well as~~ and off-site,
789 ~~where necessary. Special operating practices may be required for use during high wind~~
790 ~~periods.~~ The application shall describe

791
792 ~~(8.) A description of the litter control program, if applicable, including;~~ the frequency ~~for~~ of
793 litter collection for internal fences, perimeter roads and off-site areas, special operating
794 procedures to be used during periods of high wind and a summary of any wind speed and
795 direction data available for the local area.;

796
797 ~~————(b) Equipment/standby equipment: All facilities shall have access to equipment that~~
798 ~~is adequate to deposit, compact and cover refuse. The operator shall demonstrate that~~
799 ~~adequate standby equipment is available to insure compliance with the compaction and~~
800 ~~covering requirements of these rules and regulations.~~

801
802 ~~(e)~~ Manager qualifications ~~Management and technical capabilities of the solid~~
803 ~~waste manager; qualified manager required:~~ Each solid waste manager shall:

804
805 ~~(i) Each operator shall assure that the facility is operated by personnel who~~
806 ~~meet the requirements of paragraph (c) (ii) of this section. The operator shall maintain~~
807 ~~records which document the training and examination of facility personnel. These records~~
808 ~~shall be available for inspection by the Department.~~

809
810 ~~————(ii) Each solid waste manager shall:~~

811
812 ~~(A)~~ Possess a complete working knowledge of the solid waste
813 management facility operational plan. For any facility ~~which~~ that is operated in compliance,
814 the solid waste manager's working knowledge shall be presumed to be adequate. For any
815 facility ~~which~~ that is being constructed or operated out of compliance, the solid waste
816 manager may be required to demonstrate working knowledge of the plan to the Department
817 by written or oral examination. This demonstration shall be conducted:

818
819 ~~(IA)~~ For any new solid waste manager, no later than six
820 months following assumption of responsibility for operating a facility, or

821
822 ~~(IB)~~ For any existing solid waste manager, no later than six
823 months following the date the facility is permitted under this Chapter.

824
825 ~~(Bii)~~ Attend the classroom or field training program described in the
826 approved plan. For any facility operated in compliance, the personnel training program shall
827 be presumed to be adequate. For any facility ~~which~~ that is being constructed or operated out
828 of compliance, the ~~Department~~ Administrator may disapprove the training program described

829 in the plan and require the operator to submit a revised training program within thirty (30)
830 days for approval by the ~~Department~~Administrator.

831
832 ~~—————(Ciii)~~ Attend any training course sponsored by the Department,
833 ~~which that~~ the ~~Department~~Administrator requires to provide training on changes to state or
834 federal solid waste rules or guidelines. For any such mandatory training course, the
835 Department shall provide each operator with a minimum of ninety (90) days' notice prior to
836 the scheduled training course.

837
838 ~~(iii v)~~ ~~Each facility subject to the permitting requirements of this chapter shall~~
839 ~~employ a solid waste manager meeting the requirements of the approved plan, who may be~~
840 ~~the operator.~~ In the event that a qualified solid waste manager terminates employment ~~for~~
841 ~~any reason~~, the operator shall designate a new solid waste manager who meets the
842 requirements of the approved plan, within ~~six~~three (3) months of such termination.

843
844 ~~(dc)~~ Routine cover frequency: Routine cover shall control fires, litter, odor, and
845 disease vectors. Wastes shall be covered with at least six (6) inches of uniformly compacted
846 soil at least monthly or more frequently if required by the Administrator. Alternate types of
847 routine cover may be approved by the Administrator. ~~All facilities with the exception of those~~
848 ~~described in (d) (i) and (d) (ii) of this section, shall be required to cover refuse with at least~~
849 ~~six inches (6") of uniformly compacted soil cover material at least monthly, or more~~
850 ~~frequently if required by the Department.~~

851
852 ~~—————(i)~~ ~~Construction/demolition landfills which receive less than twenty (20)~~
853 ~~cubic yards of refuse in any calendar month may instead be covered with at least six inches~~
854 ~~(6") of uniformly compacted soil material whenever the waste on the working face reaches a~~
855 ~~depth of three (3) feet.~~

856
857 ~~—————(ii)~~ ~~Alternate types of cover material and associated cover depths may be~~
858 ~~approved by the Department. Alternative covering schemes should be appropriate to control~~
859 ~~infiltration, fires, litter, odor and disease vectors such as insects and rodents.~~

860
861 ~~(ed)~~ Confine working face: ~~Facilities open to the public may be accessed only~~
862 ~~during the facility's posted operating hours. Facilities that are not open to the public shall~~
863 ~~either have an on-site attendant during operation of the facility or submit a plan to the~~
864 ~~Department describing a waste screening procedure which would assure disposal of~~
865 ~~authorized wastes only.~~

866
867 ~~—————(f)~~ ~~Control of active area:~~ ~~The facility shall be designed to limit dumping.~~ Disposal
868 shall be limited to the smallest practical area. Signs or other physical dumping barriers shall
869 ~~be available to~~ direct dumping to the proper area, ~~or~~ and the facility attendant shall ~~assure~~
870 ensure that dumping is adequately ~~defined~~confined.

871
872 ~~(fe)~~ Control access to facility Access control: ~~If the facility is open to the public,~~
873 a Access shall be prohibited at any time other than the facility's ~~posted~~ operating hours. ~~:~~

874 ~~—————(b)~~ Access restrictions:

875
876 (i) The working area of all facilities shall be fenced in such a manner as to
877 discourage people and livestock from entering the facility ~~and to contain a majority of litter~~
878 ~~within the facility.~~

879
880 (A) Additional fencing may be required to restrict access to
881 reclaimed areas or other areas that may present public health and safety hazards;

882
883 (B) If the facility is located on property ~~which~~that already has a
884 restrictive perimeter fence, the requirement for a perimeter fence around the landfillworking
885 area may be waived. ~~Additional fencing (i.e. litter collection fences) may still be required.~~

886
887 (ii) ~~If the public has access to the facility, any a~~Access roads shall be
888 equipped with a gate ~~which~~that ~~can~~shall be locked when the facility is unattended.

889
890 (g) Surface water restrictions: ~~Facilities shall not be operated so that s~~Standing or
891 running water shall not come into contact with refuse. All facilities shall take adequate
892 measures to prevent and/or alleviate ponding of water over filled areas. Surfaces shall be
893 graded to promote lateral surface water runoff.

894
895 (h) ~~No b~~Burning: No open burning of solid waste is allowed, with the exception
896 of clean wood, tree trimmings and/or brush; ~~this exception is valid only when the operator~~
897 ~~has obtained a permit~~ with prior approval from the Air Quality Division.

898
899 (i) Fire protection and other emergency protection measures: Facilities shall
900 maintain, at a minimum, an unobstructed 10 foot firelane around the working area or inside
901 ~~within the working area fence or the~~ perimeter of the facility boundary fence. ~~The l~~Landfill
902 personnel shall have access to portable fire extinguishers when on-site. ~~Depending on the~~
903 ~~facility location, p~~Personnel ~~may be required to~~shall have a communication system (radio,
904 telephone, etc.) with which to alert the local fire Department. ~~—(e) Firelanes : All facilities~~
905 ~~shall have a fire lane which is a minimum of 10 feet wide around the active disposal area and~~
906 ~~within the working area/perimeter fence.~~

907
908 (j) Liquid wastes: ~~No construction/demolition landfill is permitted to accept~~
909 Liquid wastes shall not be disposed.

910
911 (k) Hazardous wastes: ~~No construction/demolition landfill is permitted to accept~~
912 hHazardous wastes shall not be disposed.

913
914 (l) Salvaging: Salvaging, ~~if permitted,~~ shall ~~be conducted in such a manner as~~
915 not ~~to~~ interfere with normal operations.

916
917 (m) ~~Solid w~~Waste compaction: All solid waste shall be effectively compacted in
918 order to reduce long term settling and conserve landfill space.

919
920 (n) ~~Operator shall have e~~Copy of plan: ~~The operator shall have a~~A copy of the

921 operating plan shall be available at the facility when landfill personnel are on-site or at an
922 alternate location approved by the Administrator. ~~In addition, the operator shall have~~
923 ~~available a contact list of names and telephone numbers of pertinent Department staff~~
924 ~~members, the local fire Department and any salvage or recycling company used by the~~
925 ~~facility.~~

926
927 (en) Intermediate cover: ~~For a~~Any area where wastes will not be disposed for a
928 period of 180 days, ~~that area~~ shall be covered with ~~the required~~ 6 inches of routine cover
929 material and an additional 12 inches of intermediate cover.

930
931 ~~————(p) Phased reclamation: All completed refuse fill areas shall be promptly reclaimed~~
932 ~~with final cover, topsoil and revegetation in order to stabilize the landfill surface and reduce~~
933 ~~the potential for leachate generation.~~

934
935 (eo) Vector control: On-site populations of disease vectors shall be prevented or
936 controlled using techniques appropriate for the protection of human health and the
937 environment.

938
939 (ep) Dust/odor/nuisance control: Adequate measures shall be taken to minimize
940 dust and odors, and to prevent the occurrence of any public nuisance.

941
942 (sq) Contact with groundwater prohibited: Wastes shall not be allowed to be
943 placed in contact with groundwater.

944
945 (tr) Traffic control: If the facility is open to the public, signs shall be posted to
946 direct traffic to the proper area for dumping.

947
948 (us) Groundwater quality: Solid waste disposal facilities shall not be allowed to
949 alter groundwater quality, as determined by groundwater monitoring. ~~If groundwater~~
950 ~~contamination exceeds Department standards at a relevant point of compliance established by~~
951 ~~the Administrator, the leaking disposal unit or area, in the case of an area fill, shall promptly~~
952 ~~be closed on a schedule approved by the Administrator. Future disposal units or areas, in the~~
953 ~~case of an area fill, shall be either:~~

954
955 (i) ~~Constructed with a composite liner, leachate collection system and final~~
956 ~~cover with a permeability less than or equal to the permeability of the bottom liner system;~~
957 ~~or;~~

958
959 ~~————(ii) The operator shall demonstrate that future disposal units or areas, in the~~
960 ~~case of an area fill, meet criteria established by the Administrator or that concentrations of~~
961 ~~pollutants will not exceed groundwater protection standards for constituents specified by the~~
962 ~~Administrator at a relevant point of compliance established by the Administrator that is no~~
963 ~~more than 150 meters (492 feet) from the waste management unit boundary on land owned~~
964 ~~by the owner of the landfill.~~

965
966 (vt) ~~No d~~Discharge to surface waters prohibited: Facilities shall be operated such

967 that leachate ~~is not allowed to~~ shall not enter any surface water, either on-site or off-site,
968 unless authorized by a National Pollutant Discharge Elimination System (NPDES) permit
969 pursuant to the Clean Water Act.

970
971 ~~————(6.) A description of the topsoil handling procedures to be used, including measures~~
972 ~~to be used to protect the piles from erosion;~~

973
974 (7.u) Signs: A description of the signs that will be posted to direct traffic to the
975 proper waste management area ~~identify the landfill and listing the information required in~~
976 ~~Section 4 (e) of this chapter;~~

977
978 (v) Waste screening: Facilities ~~that are not open to the public~~ shall ~~either~~ have an
979 on-site attendant during operation of the facility. The application shall include ~~or submit a~~
980 ~~plan to the Department describing a~~ waste screening procedures which ~~that would~~ shall assure
981 ensure disposal of authorized wastes only.

982
983 ~~————(w) Recordkeeping standards: Each operator shall have the following records~~
984 ~~available at the facility when landfill personnel are on-site as specified by Chapter 1, Section~~
985 ~~1 (g):~~

986
987 ~~————(i) Log of litter collection activities including dates and sites of litter~~
988 ~~collection and names of responsible personnel, if applicable.~~

989
990 ~~————(ii) Log of refuse compaction and covering procedures specifying the dates~~
991 ~~on which compaction and covering operations were conducted, area compacted and covered,~~
992 ~~and names of responsible personnel:~~

993
994 ~~————(iii) Length, width, depth and location of trenches, as well as boundaries;~~

995
996 ~~————(iv) Completion dates and contents of trenches;~~

997
998 ~~————(v) Monitoring data as required by Section 6;~~

999
1000 ~~————(vi) Records of salvaged wastes;~~

1001
1002 ~~————(vii) Record of any problems causing operations to cease, including but not~~
1003 ~~limited to fire or equipment failure;~~

1004
1005 ~~————(viii) Copy of the Department permit letter;~~

1006
1007 ~~————(ix) Dates when reclamation activities take place.~~

1008
1009 ~~(x) Special waste standards: Facilities at which special wastes (subject to the~~
1010 ~~requirements of Chapter 8) are received shall manage those wastes in compliance with the~~
1011 ~~operating standards of Chapter 8.~~

1012

1013 ~~————(y) Waste treatment and storage requirements: Facilities at which solid wastes are~~
1014 ~~stored or treated in quantities which are subject to the requirements of Chapter 6 shall~~
1015 ~~comply with the operating standards of that chapter.~~

1017 **Section 68. Monitoring Standards. All facilities required to institute**
1018 **monitoring shall meet the standards described in this section.**

1019
1020 ~~————(a) Handling and storage of samples: Groundwater and soil samples shall be~~
1021 ~~collected and stored in accordance with Department of Environment Quality/Water~~
1022 ~~Quality Division requirements.~~

1023
1024 ~~————(b) Groundwater:~~

1025
1026 ~~————(i) Well placement: All facilities required to install monitoring wells~~
1027 ~~shall place them in accordance with the Department's requirements. Following initial~~
1028 ~~placement of the wells, the operator shall confirm that the wells are capable of~~
1029 ~~measuring groundwater quality representative of conditions hydraulically upgradient~~
1030 ~~and downgradient of the solid waste disposal facility.~~

1031
1032 ~~————(ii) Well design, construction/installation and abandonment: All wells~~
1033 ~~shall be designed, constructed and installed in accordance with the Water Quality~~
1034 ~~Division Chapter XI requirements. All abandoned monitoring wells shall be plugged~~
1035 ~~and sealed in accordance with the Water Quality Division Chapter XI requirements.~~

1036
1037 ~~————(iii) Permits required. Prior to well installation, the monitoring well~~
1038 ~~design, construction and location specifications shall be approved by the Department.~~
1039 ~~A construction permit under Chapter III of the Water Quality Division rules and~~
1040 ~~regulations is not required. All monitoring wells shall be permitted by the Wyoming~~
1041 ~~State Engineer's Office.~~

1042
1043 ~~————(iv) Analyses: Baseline, routine and detection monitoring will be~~
1044 ~~specified by the Department on a case-by-case basis.~~

1045
1046 (a) Collection and management of samples: Groundwater, soil core, vadose zone,
1047 and decomposition gas samples shall be collected and managed in accordance with
1048 Department guidance or equivalent methods approved by the Administrator.

1049
1050 (b) Groundwater monitoring:

1051
1052 (i) Groundwater monitoring systems:

1053
1054 (A) A groundwater system must be installed that consists of a
1055 sufficient number of wells to monitor water from the uppermost aquifer that may be affected
1056 by leakage from the facility or unit. The system must be capable of monitoring the quality of
1057 background groundwater and groundwater passing the relevant point of compliance
1058 established by the Administrator that shall be within 150 meters (492 feet) of the waste

1059 management unit boundary on land owned by the owner of the landfill. Well locations must
1060 be approved by the Administrator.

1061
1062 (B) The Administrator may approve a groundwater monitoring
1063 system designed to monitor groundwater from the facility, in lieu of individual waste
1064 disposal units, if the system is determined to be capable of adequately detecting groundwater
1065 pollution. In approving a facility-wide groundwater monitoring system, the Administrator
1066 shall consider:

1067
1068 (I) Number, spacing, and orientation of the individual
1069 waste units.

1070
1071 (II) Hydrologic setting.

1072
1073 (III) Site history and design.

1074
1075 (IV) Type of waste accepted at the individual waste units.

1076
1077 (C) The design of the groundwater monitoring system must be
1078 based on site-specific hydrogeologic conditions including information on aquifer thickness,
1079 aquifer properties, groundwater flow direction and rate (including seasonal variations), and
1080 on geologic information on the soils, any aquitards, aquicludes, or confining formations, at
1081 the site. The design of the system must be approved by the Administrator.

1082
1083 (ii) Groundwater sampling and analysis shall meet the requirements of
1084 Chapter 2, Section 9(b)(i)(C)(I) through (IV).

1085
1086 (iii) Statistical evaluations of groundwater data shall meet the requirements
1087 of Chapter 2, Section 9(b)(i)(C)(V) through (VII).

1088
1089 (iv) Detection monitoring: The owner or operator shall institute a
1090 detection monitoring program by sampling each well at least semiannually, and testing each
1091 sample for the constituents specified in Chapter 2, Appendix C, unless the Administrator
1092 approves an alternate sampling frequency.

1093
1094 (A) The owner or operator must determine whether or not there is a
1095 statistically significant increase over background values as follows:

1096
1097 (I) The owner or operator must compare the groundwater
1098 quality of each parameter or constituent at each monitoring well using the approved
1099 statistical method; and

1100
1101 (II) Within thirty (30) days after completing sampling and
1102 analysis, unless an alternate time frame is approved by the administrator, the owner or
1103 operator must determine whether there has been a statistically significant increase over
1104 background at each monitoring well.

1105
1106 (B) If there is a statistically significant increase over background
1107 for one or more constituents in any well the operator must:
1108
1109 (I) Notify the Administrator in a written report with
1110 supporting documentation and place a copy of the report in the facility operating record
1111 within fourteen (14) days.
1112
1113 (II) The owner or operator may be required to initiate an
1114 assessment monitoring program unless within ninety (90) days or an alternate time frame
1115 approved by the Administrator, the owner or operator demonstrates to the Administrator in
1116 writing that the statistically significant increase over background is not due to the solid waste
1117 disposal facility or unit, but that the difference is due to another source of pollution, error in
1118 sampling, analysis or statistical evaluation, or natural variation in groundwater quality. The
1119 owner or operator shall prepare a report documenting this demonstration, and following
1120 approval by the Administrator, place the report in the operating record for the facility. If the
1121 demonstration is approved, the owner or operator shall continue detection monitoring.
1122
1123 (III) If a successful demonstration is not made:
1124
1125 (1.) The owner or operator shall request that the
1126 Administrator classify groundwater according to Wyoming Water Quality Rules and
1127 Regulations and establish groundwater protection standards.
1128
1129 (v) Assessment monitoring:
1130
1131 (A) If there is a statistically significant increase over background
1132 for one or more Appendix C constituent(s) in any well ~~If the concentration of one or more~~
1133 ~~constituents exceeds background,~~ the Administrator may require the operator to analyze
1134 groundwater samples for the constituents found in Chapter 2, Appendix A or B. Some or all
1135 of these constituents may be added to the detection and/or assessment monitoring program
1136 for the facility.
1137
1138 (B) After groundwater protection standards have been established,
1139 within thirty (30) days after completing sampling and analysis, unless an alternate time frame
1140 is approved by the Administrator, the owner or operator shall determine if there has been a
1141 statistically significant increase over a groundwater protection standard for each applicable
1142 constituent in each downgradient well specified by the Administrator using a statistical
1143 method approved by the Administrator.
1144
1145 (C) If one or more constituents are detected at statistically
1146 significant levels above the groundwater protection standard at a relevant point of
1147 compliance established by the Administrator that is no more than 150 meters (492 feet) from
1148 the waste management unit boundary on land owned by the owner of the landfill, the owner
1149 or operator shall ~~within fourteen (14) days~~ notify the Administrator within fourteen (14) days
1150 of the constituents detected above the groundwater protection standard in a written report

1151 with supporting documentation.

1152

1153 (I) Unless the owner or operator demonstrates that the
1154 statistically significant increase was caused by another source, resulted from an error in
1155 sampling, analysis, or statistical evaluation, or from natural variation in groundwater quality,
1156 the Administrator may require the owner or operator to characterize the nature and extent of
1157 the release, conduct an assessment of corrective measures, and institute corrective action
1158 remedies approved by the Administrator.

1159

1160 **Section 9. Recordkeeping Standards.** Each operator shall have the following
1161 records available at the facility when landfill personnel are on site as specified by Chapter 1,
1162 Section 1(g):

1163

1164 (a) Records maintained for three years: The following records shall be
1165 maintained at the facility or an approved alternate location and available for inspection and
1166 copying for three (3) years:

1167

1168 (i) Log of litter collection activities including dates and sites of litter
1169 collection and names of responsible personnel, if applicable.

1170

1171 (ii) Log of refuse compaction and covering procedures specifying the
1172 dates ~~on which~~ when compaction and covering operations were conducted, area compacted
1173 and covered, and names of responsible personnel;.

1174

1175 (iii) Records of wastes sold or salvaged ~~wastes;~~

1176

1177 (iv) Record of any problems causing operations to cease, including but not
1178 limited to fire or equipment failure;.

1179

1180 (b) Records maintained through post-closure: The following records shall be
1181 maintained at the facility or an approved alternate location and available for inspection and
1182 copying for the life of the facility through the end of the post-closure period:

1183

1184 (iii) As-built specifications for disposal units with their dates of
1185 construction, ~~L~~ length, width, depth and location ~~of trenches, as well as boundaries;~~

1186

1187 (iv) ~~Dates when trenches or units are~~ Completion dates completed and their
1188 contents ~~of trenches;~~

1189

1190 (viii) Monitoring data ~~as required by Section 6;~~

1191

1192 (vi) ~~Records of salvaged wastes (vii) Record of any problems causing~~
1193 operations to cease, including but not limited to fire or equipment failure;

1193

1194 (ixiii) Permit applications and ~~Copy of the~~ Department permit letters;.

1195

1196 (ixv) Dates when reclamation activities ~~take place~~ occurred.

- 1197
1198 (vi) Log of waste inspections and other screening activities specifying the
1199 date, time, and name(s) of the inspection personnel.
1200
1201 (vii) Records of operator training.
1202
1203 (viii) Copies of written correspondence with the Department.
1204
1205 (ix) Closure and post-closure plans, if not already in the permit application,
1206 and semiannual post-closure inspection logs, descriptions of actions to correct problems
1207 encountered during the post-closure period, and any monitoring, testing, and analytical data
1208 required.

1209
1210 **Section 10. Reporting Standards.**

1211
1212 (a) Annual reports: Annual reports for the previous calendar year shall be
1213 submitted in a format approved by the Administrator by March 1. At a minimum, annual
1214 reports shall include the following information:

1215
1216 (i) A summary description of facility operations and activities carried out
1217 during the last year including, but not limited to, the construction of new waste disposal
1218 units, the tons of waste received (estimated if the facility has no scales), and the cubic yards
1219 of estimated air space used.

1220
1221 (ii) A description of any final cover and reclamation activities completed
1222 during the last year with supporting documentation that reclamation was completed in
1223 accordance with the Solid Waste Rules and the facility permit.

1224
1225 (iii) Electronic copies of all required monitoring data not already submitted
1226 following a sampling event in a format specified by the Administrator. The Administrator
1227 may require paper copies of monitoring data. Operators may also be required to submit
1228 supporting charts and/or maps that represent the data.

1229
1230 (b) Additional information: The Administrator may require reporting of
1231 additional information needed to demonstrate compliance with these rules and regulations.

1232
1233 **Section 711. Closure and Post-Closure Standards.**

1234
1235 ~~All facilities shall be closed in accordance with the standards described in this section, as~~
1236 ~~well as the requirements of Chapter 1, Section 2 (g).~~

1237
1238 ~~— (a) Post-closure land use: All sites shall be returned to the use specified in the permit,~~
1239 ~~following closure of the facility.~~

1240
1241 ~~(b) Commencement of closure: Closure activities as specified in this section and in~~
1242 ~~the approved facility closure plan shall commence at a time no later than nine months following~~

1243 ~~the time the facility ceases to receive solid wastes. Closure shall be promptly completed within~~
1244 ~~twelve (12) months following commencement of closure activities unless the Department~~
1245 ~~approves interim measures with delayed final closure for good cause upon application by the~~
1246 ~~operator. Approved closure activities shall commence no later than thirty (30) days after the date~~
1247 ~~that each unit receives the known final receipt of wastes and shall be completed within one~~
1248 ~~hundred eighty (180) days following commencement of closure. The Administrator may~~
1249 ~~approve:~~

1250
1251 (i) Delayed closure of a unit or facility if the unit or facility has additional
1252 remaining disposal capacity, and the owner demonstrates that there will be no threats to human
1253 health or the environment from the unclosed facility or unit.

1254
1255 (ii) Extensions of the closure period if needed to adequately complete closure
1256 activities and the owner demonstrates that there will be no threats to human health or the
1257 environment from the unclosed facility or unit.

1258
1259 (b) Notification and certification of closure: Prior to the commencement of unit and
1260 facility closure activities, the operator shall notify the Administrator in writing. Within ninety
1261 (90) days following closure of each unit and facility, the operator shall submit a certification with
1262 supporting documentation signed by an engineer licensed to practice in Wyoming that closure
1263 has been completed in accordance with the approved closure plan and place a copy of the
1264 certification in the facility operating record.

1265
1266 (c) Notice on deed: At facility closure, an instrument that clearly gives notice of the
1267 restrictions that apply to future activities on the disposal facility property shall be filed for
1268 recording by the registrar of deeds (county clerk) in the county where the facility is located.
1269 Wording of such an instrument shall indicate that the property has been used as a construction
1270 demolition waste disposal facility. This shall be recorded prior to any property transaction
1271 resulting in another use for the property. The owner/operator, or its successors, shall ensure that
1272 post-closure use of the property will be restricted to prevent any disturbance to the facility's
1273 containment system including caps and liners, or the functioning of the facility's monitoring
1274 system. The owner or operator may request permission from the Administrator to remove the
1275 notation from the deed if all wastes are removed from the facility.

1276
1277 ~~———(d) Posted notification for public: If the facility is open to the public, the operator shall~~
1278 ~~arrange for notice of closure to be published in an area newspaper as well as posted at all facility~~
1279 ~~access points.~~

1280
1281 ~~(b)~~ (d) Length of post-closure period: The post-closure period for
1282 construction/demolition landfills shall extend for a minimum period of not less than five (5)
1283 years after completion of closure activities. Following this initial minimum period, The
1284 post-closure period shall be automatically extended until such time when the
1285 ~~director~~ Administrator determines, upon petition by the operator accompanied by submission
1286 of relevant information, that the facility has been adequately stabilized in a manner protective
1287 of human health and the environment.

1288

1289 ~~_____ (c) Notice on deed: At closure, an instrument which clearly gives notice of the use of~~
1290 ~~the property as a construction/demolition landfill shall be filed in the county where the~~
1291 ~~facility is located. Wording of such an instrument shall indicate that the property has been~~
1292 ~~used as a solid waste disposal facility. This shall be recorded prior to any property~~
1293 ~~transaction resulting in another use for the property.~~

1294
1295 _____ (e) Design and construction standards:

1296
1297 _____ (ei) Minimum period for maintenance of access restriction: The operator
1298 shall not remove the facility's fence, gates and any other restrictions until the site has been
1299 closed and revegetated, if post-closure land use requires establishment of vegetative cover.
1300 Post-closure maintenance activities will be required for a minimum of 5 years. The permit
1301 application shall describe the methods that will be used to maintain access restrictions to any
1302 closed facility.

1303
1304 _____ (fi) Prevention of erosion or ponding problems: ~~For closure to be~~
1305 ~~satisfactory, t~~The site shall be ~~engineered~~designed and constructed to inhibit future problems
1306 with erosion or ponding of surface water over filled areas. This may be done by site grading
1307 and revegetation, emplacement of rip rap or other appropriate means. The permit application
1308 shall describe the methods by which surface erosion or water ponding problems identified
1309 during site inspections will be corrected.

1310
1311 _____ (giii) Minimum thickness of subsoil and topsoil for final cover: For closure,
1312 a compacted layer of subsoil or a combination of materials as specified in the permit, at least
1313 two feet (2') thick shall be constructed over the refuse or any intermediate cover already in
1314 place. This compacted layer shall be covered with at least six inches (6") of topsoil and
1315 graded to prevent erosion or surface water ponding. The permit application shall include a
1316 description of the final soil cover and how it will be constructed, as well as methods used to
1317 revegetate the site.

1318
1319 _____ (hiv) Seeding specifications: Any portion of the site disturbed by solid
1320 waste disposal activities shall be reseeded consistent with the post-closure land use, in order
1321 to establish vegetation capable of minimizing wind and water erosion of the final cover.
1322 Vegetation shall be of a diverse mixture selected for compatibility with climatic conditions,
1323 require little maintenance and have root depths that will not exceed the depth of the final
1324 cover.

1325
1326 ~~_____ (i) Commencement of closure: Closure activities as specified in this section and in~~
1327 ~~the approved facility closure plan shall commence at a time no later than nine months~~
1328 ~~following the time the facility ceases to receive solid wastes. Closure shall be promptly~~
1329 ~~completed within twelve (12) months following commencement of closure activities unless~~
1330 ~~the Department approves interim measures with delayed final closure for good cause upon~~
1331 ~~application by the operator.~~

1332
1333 _____ (jv) Surveyed corners: If not accomplished previously, all site boundary
1334 corners shall be surveyed and marked with permanent survey caps upon facility closure.

1335
1336 _____(kvi) Surface water diversion: Surface water diversion structures ~~at any site~~
1337 shall be maintained in operating condition throughout the closure/post-closure period. The
1338 permit application shall include the method that will be used to divert surface water from the
1339 site during the post-closure period. Facility inspections shall be conducted at least twice per
1340 year and problems encountered shall be promptly corrected.

1341
1342 (f) Monitoring information~~Maintenance of environmental monitoring systems:~~
1343 The application shall demonstrate compliance with Section 8 and describe the methods by
1344 which ~~The operator shall maintain~~ all environmental monitoring systems will be maintained
1345 for the length of the closure/post-closure period.

1346
1347 (g) Recordkeeping: The operator shall comply with the applicable recordkeeping
1348 requirements of Section 9.

1349
1350 (h) Reporting: The operator shall comply with the applicable recordkeeping
1351 requirements of Section 10.

1352
1353 (i) Supporting documentation: The application shall include any supporting
1354 documentation listed in Section 16 that is pertinent to the closure/post-closure phase, including
1355 but not limited to:

1356
1357 (I) A final contour map ~~specified in subsection (b) (ii) (G) of this section;~~

1358
1359 (Bii) A general facility plot plan at a scale approved by the Administrator ~~not~~
1360 ~~greater than 200 feet to the inch~~ illustrating past areas of waste deposition, estimated dates of fill
1361 and any other pertinent features;

1362
1363 (Eiii) A map or aerial photograph of the area shall be submitted showing land
1364 ownership, land use and zoning within one mile of the disposal site. The map or photograph
1365 shall be of sufficient scale to show all city boundaries, each occupied dwelling house, schools,
1366 hospitals, industrial buildings, water wells, water courses, road and other applicable details and
1367 shall indicate the general topography.

1368
1369 ~~(8.) Any other information necessary to demonstrate compliance with the closure/post-~~
1370 ~~closure standards specified in Section 7 of this chapter.~~

1371
1372 ~~—(n) Compliance with other standards: Each facility subject to the requirements of~~
1373 ~~Chapter 6, 7, and/or 8 shall close, and maintain during the post-closure period in compliance~~
1374 ~~with the requirements of these chapters, if applicable.~~

1375
1376 (d) Closure permit application requirements: Closure permit applications shall
1377 include the information in this paragraph and demonstrate compliance with paragraphs e – j
1378 of this section. A copy of the pertinent materials from the approved permit application or
1379 approved renewal permit application, revised and updated as necessary, may be used to fulfill
1380 these requirements.

1381
1382 ~~_____ (i) Closure permit applications shall be submitted as required in Section 2 (a)~~
1383 ~~(iii) of this chapter. A copy of the pertinent materials from the approved permit application~~
1384 ~~or approved renewal permit application, revised and updated as necessary, may be used to~~
1385 ~~fulfill requirements (F) through (J). Each closure permit application shall contain the~~
1386 ~~following information:~~

1387
1388 _____ (i) Permit application form: Each closure permit application shall contain
1389 a permit application form signed in the manner described in Section 2(a)(ii).

1390
1391 _____ (ii) General information:

1392
1393 _____ (A) General site information specified in Sections 3(a) through (e)
1394 and (i).

1395
1396 _____ (AB) A narrative describing the site operating history including the
1397 dates of operation, the disposal methods used and the types and amounts of waste accepted;

1398
1399 _____ (C) A description of the closure/post-closure stage of landfill
1400 development, including:

1401
1402 _____ (I) A description of the land use anticipated after closure;

1403
1404 _____ (II) The wording of the deed notice;

1405
1406 _____ (III) If the facility is open to the public, a copy of the notice
1407 of closure;

1408
1409 ~~_____ (B) A general facility plot plan at a scale not greater than 200 feet to~~
1410 ~~the inch illustrating past areas of waste deposition, estimated dates of fill and any other~~
1411 ~~pertinent features;~~

1412
1413 ~~_____ (Ciii) Data on Site geology and hydrology;~~ Geologic information
1414 required by Section 5.

1415
1416 ~~_____ (D) A map of the site area as specified in subsection (b) (ii) (C) of this~~
1417 ~~section;~~

1418
1419 ~~_____ (E) An evaluation of the facility's potential to impact surface water~~
1420 ~~and groundwater quality, based on hydrogeologic information and the facility's design and~~
1421 ~~operating history.~~

1422
1423 ~~_____ (F) General site information specified in subsections (b) (ii) (A) (I)~~
1424 ~~through (b) (ii) (A) (III) of this section;~~

1425
1426 ~~_____ (G) Environmental monitoring system information specified in~~

1427 ~~Section 6 (b) of this chapter, if applicable;~~

1428

1429 ~~(H) Closure/post closure information specified in subsection (b) (ii)~~

1430 ~~(A) (XIII) of this section;~~

1431

1432 ~~_____ (I) A final contour map specified in subsection (b) (ii) (G) of this~~

1433 ~~section;~~

1434

1435 ~~_____ (J) Any supporting documentation listed in subsection (b) (ii) (H) of~~

1436 ~~this section pertinent to the closure/post closure phase.~~

1437

1438

1439 **Section 12. Corrective Action Standards.**

1440

1441 (a) Completion of corrective action: Corrective action remedies shall be

1442 considered complete when:

1443

1444 (i) The owner or operator complies with groundwater protection standards

1445 at all points within the plume of contamination that lie beyond the relevant point of

1446 compliance established by the Administrator. The relevant point of compliance shall be no

1447 more than 150 meters (492 feet) from the waste management unit boundary on land owned

1448 by the owner of the landfill.

1449

1450 (ii) Compliance with the groundwater protection standards shall be

1451 considered complete when concentrations of constituents have not exceeded the groundwater

1452 protection standard(s) for a period of three (3) consecutive years using the approved

1453 statistical procedures. The Administrator may approve an alternate length of time during

1454 which the owner or operator must demonstrate compliance with the standard(s), considering:

1455

1456 (A) Extent and concentration of the release(s).

1457

1458 (B) Behavior characteristics of the contaminants in the

1459 groundwater.

1460

1461 (C) Accuracy of the monitoring or modeling techniques, including

1462 any seasonal, meteorological, or other environmental variables that may affect the accuracy.

1463

1464 (D) Characteristics of the groundwater.

1465

1466 (iii) All actions required to complete the remedy have been satisfied.

1467

1468 (iv) When the operator believes the corrective action remedy is complete,

1469 the operator shall:

1470

1471 (A) Notify the Administrator in writing, with supporting

1472 documentation, and place a copy of the notice in the facility operating record.

1473
1474 (B) Petition the Administrator to be released from the financial
1475 assurance requirements for corrective action under Chapter 7 of these rules and regulations.
1476

1477 (C) When, the Administrator determines that the corrective action
1478 remedy has been completed, the owner or operator shall be released from the requirements of
1479 financial assurance for corrective action.
1480

1481 **Section 13. Financial Assurance Standards.**
1482

1483 (a) Financial assurance standards: The permit application shall demonstrate
1484 compliance with the requirements of Chapter 7.
1485

1486 **Section 14. Transfer, Treatment and Storage Facility Standards.**
1487

1488 (a) Transfer, treatment and storage facility standards: The permit application shall
1489 demonstrate compliance with the requirements of Chapter 6.
1490

1491 **Section 15. Special Waste Standards.**
1492

1493 (a) Solid waste standards: The permit application shall demonstrate compliance
1494 with the requirements of Chapter 8.
1495

1496 **Section 16. Commercial Solid Waste Facility Standards.**
1497

1498 (a) Commercial solid waste facility standards: The permit application shall
1499 demonstrate compliance with the requirements of Chapter 10 and W.S. 35-11-514.
1500

1501 **Section 17. Supporting Documentation/Appendices.**
1502

1503 (a) Supporting materials: At a minimum, appendices shall include the
1504 information in this section.
1505

1506 (b) Maps and plans:
1507

1508 (Bi) An original topographic map with a scale of 1:24,000 with the
1509 proposed facility location shown; an original USGS topographic map with a scale of
1510 1:62,500 or other suitable topographic map may be submitted if a 1:24,000 map is
1511 unavailable.
1512

1513 (Eii) A map or aerial photograph of the area shall be submitted showing
1514 land ownership, land use and zoning within one mile of the disposal site. The map or
1515 photograph shall be of sufficient scale to show all city boundaries, each occupied dwelling
1516 house, schools, hospitals, industrial buildings, water wells, water courses, road and other
1517 applicable details and shall indicate the general topography.
1518

1519 (Diii) A general facility plot plan (map) with a scale and contour intervals
1520 approved by the Administrator~~at a scale not greater than 200 feet to the inch with maximum~~
1521 ~~twenty-foot contour intervals~~ shall be submitted. The general facility plot plan shall at a
1522 minimum illustrate the following features:

- 1523
- 1524 (IA) Facility boundaries including any buffer zones proposed
1525 between the solid waste boundary and the property boundary;.
- 1526
- 1527 (HB) Points of access;.
- 1528
- 1529 (HC) Locations of soil borings and ~~groundwater~~ monitoring wells, ~~if~~
1530 ~~applicable;~~.
- 1531
- 1532 (VD) Locations of proposed trenches or area fill locations;.
- 1533
- 1534 (VE) Working area/perimeter fire lane;.
- 1535
- 1536 (VF) Working area/perimeter fence location;.
- 1537
- 1538 (G) Locations of any facility buildings.
- 1539

1540 (Eiv) Additional facility plot plans, at a scale approved by the
1541 Administrator~~the same scale as the general facility plot plan~~, shall be submitted as necessary
1542 to show orderly development and use of the facility through the life of the site. These plot
1543 plans shall at a minimum contain the following information:

- 1544
- 1545 (IA) Excavation plans for development of trenches or preparation of
1546 area fill locations;.
- 1547
- 1548 (HB) Development of temporary surface water diversion structures
1549 ~~which~~that may be necessary to adequately control surface water run-on and run-off;.
- 1550
- 1551 (HC) Access to active waste disposal areas, including development
1552 of internal roads;.
- 1553
- 1554 (VD) Cover stockpile locations;.
- 1555
- 1556 (VE) Topsoil storage locations;.
- 1557
- 1558 (VF) Litter screen placement information, if applicable;.
- 1559
- 1560 (G) Location of special waste management areas.
- 1561
- 1562 (VH) Other details pertinent to the development and use of the
1563 facility.
1564

1565 ~~_____ (F) As an alternative to subsection (b) (ii) (E) of this section, which requires~~
1566 ~~site development plans to be supplied for the life of the site, the applicant may submit~~
1567 ~~detailed site development plans to be supplied for the life of the site, the applicant may~~
1568 ~~submit detailed site development plans containing information specified in subsection (b) (ii)~~
1569 ~~(E) but covering only the first permit term.~~

1570
1571 (Gv) A map showing proposed final contours prepared with a scale and
1572 contour intervals approved by the Administrator~~at a scale no greater than 200 feet to the inch,~~
1573 ~~with five foot contour intervals, shall be submitted.~~

1574
1575 (vi) Detailed design plans, including but not limited to plans for liners,
1576 leachate collection and management systems, caps and associated quality assurance/quality
1577 control (QA/QC) plans. The Administrator may approve submittal of detailed design plans
1578 as a minor permit amendment periodically over the life of the facility, but detailed plans must
1579 be submitted at least three (3) years prior to the anticipated construction date of new units.

1580
1581 (Hvii) Cross sections and/or drawing details shall be submitted with
1582 sufficient specifications to describe:

1583
1584 (IA) Internal litter catch screens or fences, if applicable;.

1585
1586 (HB) Working area/perimeter fencing;.

1587
1588 (HC) Access roads;.

1589
1590 (VD) Trench or area fill method;.

1591
1592 (VE) Systems used for monitoring, collection, treatment and disposal
1593 of leachate, if required;.

1594
1595 (VF) Groundwater monitoring well design;.

1596
1597 (VHG) Surface and subsurface drain systems to control run-on and
1598 run-off and or inflow;.

1599
1600 (H) Special waste management areas, if applicable.

1601
1602 (I) All components of engineered containment systems, if
1603 applicable, that include, but are not limited to, liners, caps, and berms.

1604
1605 (J) Construction quality assurance/quality control (QA/QC) plans
1606 for engineered containment systems, if applicable.

1607
1608 (VHK) Any other design details requested by the
1609 Department Administrator.

1610

1611 (c) Recordkeeping logs: A copy of the blank record keeping logs/forms ~~shall~~that
1612 will be maintained during the operating life and closure/post-closure-~~maintenance~~ period.