

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 62

Land Disposal Restrictions Amendments to
First Third Scheduled Wastes
54 FR 18836-18838
May 2, 1989
(HSWA Cluster II)

This checklist amends the First Third Rule addressed by Revision Checklist 50 (53 FR 31138, August 17, 1988). Additional changes to the First Third are made at 54 FR 36967 (September 6, 1989). The Revision Checklist (number 66) for that rule is in draft form and will be issued in State Program Advisory 8.

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE

PART 268 - LAND DISPOSAL RESTRICTIONS

SUBPART D - TREATMENT STANDARDS

TREATMENT STANDARDS EXPRESSED AS WASTE CONCENTRATIONS

revise Table CCW as shown below	268.43(a)	HWMR- 7 PART VIII §801	X	☒	
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No Land Disposal for:
K004 Nonwastewater forms of these wastes generated by the process described in the waste listing description and disposed after August 17, 1988, and not generated in the course of treating wastewater forms of these wastes (Based on No Generation)

K008 Nonwastewater forms of these wastes generated by the process described in the waste listing description and disposed after August 17, 1988, and not generated in the course of treating wastewater forms of these wastes (Based on No Generation)

K021 Nonwastewater forms of these wastes generated by the process described in the waste listing description and disposed after August 17, 1988, and not generated in the course of treating wastewater forms of these wastes (Based on No Generation)

K023 Nonwastewater forms of these wastes generated by the process described in the waste listing description and disposed after August 17, 1988, and not generated in the course of treating wastewater forms of these wastes (Based on No Generation)

K036 Nonwastewater forms of these wastes generated by the process described in the waste listing description and disposed after August 17, 1988, and not

generated in the course of treating wastewater forms of these wastes (Based on No Generation)

K044 (Based on Reactivity)

K045 (Based on Reactivity)

K047 (Based on Reactivity)

K060 Nonwastewater forms of these wastes generated by the process described in the waste listing description and disposed after August 17, 1988, and not generated in the course of treating wastewater forms of these wastes (Based on No Generation)

K081 Nonwastewaters—High Zinc Subcategory (greater than or equal to 15% total zinc) (Based on Recycling); effective 8/8/90

K089 Non-Calcium Sulfate Subcategory—Nonwastewater forms of these wastes generated by the process described in the waste listing description and disposed after August 17, 1988, and not generated in the course of treating wastewater forms of these wastes (Based on Recycling)

K100 Nonwastewater forms of these wastes generated by the process described in the waste listing description and disposed after August 17, 1988, and not generated in the course of treating wastewater forms of these wastes (Based on No Generation)

[FR Doc. 89-10471 Filed 5-1-89; 8:48 am]

RCRA REVISION CHECKLIST 63

Land Disposal Restrictions for
Second Third Scheduled Wastes
54 FR 26594-26652
June 23, 1989
(HSWA Cluster II)

Notes: 1) This is the fifth in a series of checklists (i.e., Revision Checklists 34, 39, 50 and 62) addressing the land disposal restrictions. The delegability of sections in 268 was not changed by this present final rule. EPA still retains the authority for "no migration" petitions, but States may be authorized to grant these petitions in the future. Additional changes were made to the land disposal restrictions at 54 FR 36967 (September 6, 1989) and at 55 FR 22520 (June 1, 1990). Revision Checklists (numbers 66 and 78) for these two rules are not yet available.

2) This checklist may be subject to change in the future. EPA's State Programs Branch is currently discussing the relationship of hazardous waste injection issues to the State authorization program. In question are the changes made to 40 CFR Part 148 by the final rule addressed by this checklist and whether they should be included in the checklist. This present checklist does not include these changes.

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE

PART 268 - LAND DISPOSAL RESTRICTIONS

SUBPART C - PROHIBITIONS ON LAND DISPOSAL

WASTE SPECIFIC PROHIBITIONS - SECOND THIRD WASTES

effective June 8, 1989 prohibition from land disposal of specific 261.31, 261.32 and 261.33 wastes	268.34(a)	HWMR- ⁷ PART VIII §801	X ✓		
effective June 8, 1989 prohibition of land disposal, except underground injection pursuant to 148.14(f) and 148.15(d), certain 261.32 wastes	268.34(b)	" "	X ✓		
effective June 8, 1989 prohibition from land disposal of F006, F008, F009, F011 & F012	268.34(c)	" "	X ✓		

**RCRA REVISION CHECKLIST 63: Land Disposal Restrictions
for Second Third Scheduled Wastes (cont'd)**

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
effective July 8, 1989, F007 prohibited from land disposal except underground injection pursuant to 148.14(f)	268.34(c)(1)	HWMR- 7 PART VIII §801	X ✓		
July 8, 1989 until December 8, 1989, F011 & F012 prohibited from land disposal pursuant to 268.41 & 268.43 treatment standards for F007, F008 & F009 nonwaste- waters; effective December 8, 1989, F011 & F012 prohibited from land disposal pursuant to 268.41 & 268.43 treat- ment standards for F011 & F012	268.34(c)(2)	" "	X		
effective June 8, 1991 wastes, specified by section with Subpart D treatment standard based on incineration and which are contam- inated soil and debris are prohibited from land disposal	268.34(d)	" "	X		
requirements for landfill or surface impoundment disposal of wastes included in 268.34(c) & (d) between June 8, 1989 and June 8, 1991; applies to F007, F008, F009, F011 & F012 only between June 8, 1989 and July 8, 1989	268.34(e)	" "	X		
when the requirements of 268.34(a)-(d) do not apply	268.34(f)	" "	X		

**RCRA REVISION CHECKLIST 63: Land Disposal Restrictions
for Second Third Scheduled Wastes (cont'd)**

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
meet applicable 268 Subpart D standards	268.34(f)(1)	HWMR- 7 PART VIII §801	X ✓		
granted an exemption pursuant to a 268.6 petition for the wastes and units covered by the exemption	268.34(f)(2)	" "	X ✓		
268.34(a),(b) & (c) do not apply if granted extension under 268.5 for wastes covered by extension	268.34(g)	" "	X ✓		
between June 8, 1989 & May 8, 1990, prohibition from land disposal in landfills or surface impoundments of 268.11 wastes for which Subpart D treatment standards are not applicable, including California list wastes subject to prohibitions under 3004(d) or 268.32; exceptions under 268.8	268.34(h)	" "	X ✓		
initial generator testing to determine if a 268.10, 268.11 and 268.12 waste exceeds applicable 268.41 & 268.43 treatment standards; land disposal prohibited if constituents exceed Subpart D levels--all 268 requirements apply	268.34(i)	" "	X ✓		

SUBPART D - TREATMENT STANDARDS

**RCRA REVISION CHECKLIST 63: Land Disposal Restrictions
for Second Third Scheduled Wastes (cont'd)**

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
TREATMENT STANDARDS EXPRESSED AS CONCENTRATIONS IN WASTE EXTRACT					
Table CCWE: remove "Cyanides (Total)*** Reserved" from the F006 nonwastewaters subtable; add the subtables shown below in alphabetical/numerical order by EPA Hazardous Waste Number	268.41(a)	HWMR- 7 PART VIII §801	X ✓	✓	

**TABLE CCWE—CONSTITUENT
CONCENTRATIONS IN WASTE EXTRACT**

F007, F008, and F009 nonwastewaters (see also table CCW in § 268.43)		Concentration (in mg/l)
Cadmium		0.066
Chromium (total)		5.2
Lead		0.51
Nickel		0.32
Silver		0.072

F011 and F012 nonwastewaters (see also table CCW in § 268.43)		Concentration (in mg/l)
Cadmium		0.066
Chromium (total)		5.2
Lead		0.51
Nickel		0.32
Silver		0.072

F024 nonwastewaters (see also table CCW in § 268.43)		Concentration (in mg/l)
Chromium (total)		Reserved.
Nickel		Reserved.

K028 nonwastewaters (see also table CCW in § 268.43)	Concentration (in mg/l)
Chromium (total)	Reserved.
Nickel	Reserved.

K115 nonwastewaters (see also table CCW in § 268.43)	Concentration (in mg/l)
Nickel	0.32

P074 nonwastewaters (see also table CCW in § 268.43)	Concentration (in mg/l)
Nickel	0.32

P099 nonwastewaters (see also table CCW in § 268.43)	Concentration (in mg/l)
Silver	0.072

P104 nonwastewaters (see also table CCW in § 268.43)	Concentration (in mg/l)
Silver	0.072

TREATMENT STANDARDS EXPRESSED AS SPECIFIED TECHNOLOGIES

incineration or burning of the nonwastewater form of specified wastes listed in 268.10, 268.11 & 268.12	268.42(a)(3)	HWMR-7 PART VIII §801	X ✓		
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**RCRA REVISION CHECKLIST 63: Land Disposal Restrictions
for Second Third Scheduled Wastes (cont'd)**

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
treatment by carbon adsorption, incineration or pretreatment followed by carbon: adsorption of the wastewater form of specified wastes listed in 268.10, 268.11 & 268.12	268.42(a)(4)	HWMR-7 PART VIII §801	X ✓		

TREATMENT STANDARDS EXPRESSED AS WASTE CONCENTRATIONS

add new sentence on the basis for the wastewater and nonwastewater treat- ment standards in Table CCW; Table CCW, as shown below and on pp. 26649- 26652: 1) revise the following subtables-- F006 nonwastewaters, K024 wastewaters and nonwastewaters; 2) remove K004 and K008 from the subtable for No Land Disposal; 3) add subtables in alphabetical/numerical order by EPA hazardous waste number, and 4) add K005 and K007 to the subtable for No Land Disposal	268.43(a)	HWMR-7 PART VIII §801	X ✓		
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**TABLE CCW—CONSTITUENT
CONCENTRATION IN WASTES**

F006 nonwastewaters (see also Table CCWE in § 268.41)	Concentration (in mg/kg)
Cyanides (Total).....	590
Cyanides (Amenable).....	30

F007, F008, and F009 nonwastewaters (see also Table CCWE in § 268.41)	Concentration (in mg/kg)
Cyanides (Total).....	590
Cyanides (Amenable).....	30

F007, F008, and F009 wastewaters (see also Table CCWE in § 268.41)	Concentration (in mg/l)
Cyanides (Total).....	1.9
Cyanides (Amenable).....	0.10
Chromium (Total).....	0.32
Lead.....	0.04
Nickel.....	0.44

RCRA REVISION CHECKLIST 63: Land Disposal Restrictions
for Second Third Scheduled Wastes (cont'd)[illegible]

**RCRA REVISION CHECKLIST 63: Land Disposal Restrictions
for Second Third Scheduled Wastes (cont'd)**

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
K038 and K040 wastewaters	Concentration (in mg/l)	K115 wastewaters (see also Table CCWE in § 268.41)	Concentration (in mg/l)	P039 nonwastewaters	Concentration (in mg/kg)
Phorate	0.025	Nickel	0.47	Disulfoton	0.1
K043 nonwastewaters	Concentration (in mg/kg)	P013 nonwastewaters	Concentration (in mg/kg)	P039 wastewaters	Concentration (in mg/l)
2,4-Dichlorophenol	0.38	Cyanides (Total)	110	Disulfoton	0.025
2,6-Dichlorophenol	0.34	Cyanides (Amenable)	9.1		
2,4,5-Trichlorophenol	6.2				
2,4,6-Trichlorophenol	7.6				
Tetrachlorophenols (Total)	0.68				
Pentachlorophenol	1.9				
Tetrachloroethene	1.7				
Hexachlorobenzo-p-dioxins	0.001				
Hexachlorobenzo-furans	0.001				
Pentachlorodibenzo-p-dioxins	0.001				
Pentachlorodibenzo-furans	0.001				
Tetrachlorodibenzo-p-dioxins	0.001				
Tetrachlorodibenzo-furans	0.001				
K043 wastewaters	Concentration (in mg/l)	P013 wastewaters	Concentration (in mg/l)	P063 nonwastewaters	Concentration (in mg/kg)
2,4-Dichlorophenol	0.049	Cyanides (Total)	1.9	Cyanides (Total)	110
2,6-Dichlorophenol	0.013	Cyanides (Amenable)	0.10	Cyanides (Amenable)	9.1
2,4,5-Trichlorophenol	0.016				
2,4,6-Trichlorophenol	0.039				
Tetrachlorophenols (Total)	0.018				
Pentachlorophenol	0.22				
Tetrachloroethene	0.006				
Hexachlorobenzo-p-dioxins	0.001				
Hexachlorobenzo-furans	0.001				
Pentachlorodibenzo-p-dioxins	0.001				
Pentachlorodibenzo-furans	0.001				
Tetrachlorodibenzo-p-dioxins	0.001				
Tetrachlorodibenzo-furans	0.001				
K095 nonwastewaters	Concentration (in mg/kg)	P021 nonwastewaters	Concentration (in mg/kg)	P063 wastewaters	Concentration (in mg/l)
1,1,1,2-Tetrachloroethane	5.6	Cyanides (Total)	110	Cyanides (Total)	1.9
1,1,2,2-Tetrachloroethane	5.6	Cyanides (Amenable)	9.1	Cyanides (Amenable)	0.10
Tetrachloroethene	6.0				
1,1,2-Trichloroethane	6.0				
Trichloroethylene	5.6				
Hexachloroethane	28				
Pentachloroethane	5.6				
K095 wastewaters	Concentration (in mg/l)	P021 wastewaters	Concentration (in mg/l)	P071 nonwastewaters	Concentration (in mg/kg)
1,1,1,2-Tetrachloroethane	5.6	Cyanides (Total)	1.9	Methyl parathion	0.1
1,1,2,2-Tetrachloroethane	5.6	Cyanides (Amenable)	0.10		
Tetrachloroethene	6.0				
1,1,2-Trichloroethane	6.0				
Trichloroethylene	5.6				
Hexachloroethane	28				
Pentachloroethane	5.6				
K095 nonwastewaters	Concentration (in mg/kg)	P029 nonwastewaters	Concentration (in mg/kg)	P071 wastewaters	Concentration (in mg/l)
1,1,1,2-Tetrachloroethane	5.6	Cyanides (Total)	110	Methyl parathion	0.025
1,1,2,2-Tetrachloroethane	5.6	Cyanides (Amenable)	9.1		
Tetrachloroethene	6.0				
1,1,2-Trichloroethane	6.0				
Trichloroethylene	5.6				
Hexachloroethane	28				
Pentachloroethane	5.6				
K096 nonwastewaters	Concentration (in mg/kg)	P029 wastewaters	Concentration (in mg/l)	P074 nonwastewaters (see also Table CCWE in § 268.41)	Concentration (in mg/kg)
1,3-Dichlorobenzene	5.6	Cyanides (Total)	1.9	Cyanides (Total)	110
Pentachloroethane	5.6	Cyanides (Amenable)	0.10	Cyanides (Amenable)	9.1
1,1,1,2-Tetrachloroethane	5.6				
1,1,2,2-Tetrachloroethane	5.6				
Tetrachloroethylene	6.0				
1,2,4-Trichlorobenzene	19				
Trichloroethylene	5.6				
1,1,2-Trichloroethane	6.0				
K096 nonwastewaters	Concentration (in mg/kg)	P030 nonwastewaters	Concentration (in mg/kg)	P074 wastewaters (see also Table CCWE in § 268.41)	Concentration (in mg/l)
1,3-Dichlorobenzene	5.6	Cyanides (Total)	110	Cyanides (Total)	1.9
Pentachloroethane	5.6	Cyanides (Amenable)	9.1	Cyanides (Amenable)	0.10
1,1,1,2-Tetrachloroethane	5.6			Nickel	0.44
1,1,2,2-Tetrachloroethane	5.6				
Tetrachloroethylene	6.0				
1,2,4-Trichlorobenzene	19				
Trichloroethylene	5.6				
1,1,2-Trichloroethane	6.0				
K096 nonwastewaters	Concentration (in mg/kg)	P030 wastewaters	Concentration (in mg/l)	P089 nonwastewaters	Concentration (in mg/kg)
1,3-Dichlorobenzene	5.6	Cyanides (Total)	1.9	Parathion	0.1
Pentachloroethane	5.6	Cyanides (Amenable)	0.10		
1,1,1,2-Tetrachloroethane	5.6				
1,1,2,2-Tetrachloroethane	5.6				
Tetrachloroethylene	6.0				
1,2,4-Trichlorobenzene	19				
Trichloroethylene	5.6				
1,1,2-Trichloroethane	6.0				
K096 nonwastewaters	Concentration (in mg/kg)	P089 wastewaters	Concentration (in mg/l)	P089 wastewaters	Concentration (in mg/l)
1,3-Dichlorobenzene	5.6	Parathion	0.025	Parathion	0.025
Pentachloroethane	5.6				
1,1,1,2-Tetrachloroethane	5.6				
1,1,2,2-Tetrachloroethane	5.6				
Tetrachloroethylene	6.0				
1,2,4-Trichlorobenzene	19				
Trichloroethylene	5.6				
1,1,2-Trichloroethane	6.0				

RCRA REVISION CHECKLIST 63: Land Disposal Restrictions for Second Third Scheduled Wastes (cont'd)

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
P094 nonwastewaters	Concentration (in mg/kg)	P106 nonwastewaters	Concentration (in mg/kg)	U102 nonwastewaters	Concentration (in mg/kg)
Phorate	0.1	Cyanides (Total) 110 Cyanides (Amenable) 9.1		Dimethyl phthalate	28
P094 wastewaters	Concentration (in mg/l)	P106 wastewaters	Concentration (in mg/l)	U102 wastewaters	Concentration (in mg/l)
Phorate	0.025	Cyanides (Total) 1.9 Cyanides (Amenable) 0.10		Dimethyl phthalate	0.54
P097 nonwastewaters	Concentration (in mg/kg)	P121 nonwastewaters	Concentration (in mg/kg)	U107 nonwastewaters	Concentration (in mg/kg)
Famphur	0.1	Cyanides (Total) 110 Cyanides (Amenable) 9.1		Di-n-octyl phthalate	28
P097 wastewaters	Concentration (in mg/l)	P121 wastewaters	Concentration (in mg/l)	U107 wastewaters	Concentration (in mg/l)
Famphur	0.025	Cyanides (Total) 1.9 Cyanides (Amenable) 0.10		Di-n-octyl phthalate	0.54
P098 nonwastewaters	Concentration (in mg/kg)	U028 nonwastewaters	Concentration (in mg/kg)	U190 nonwastewaters	Concentration (in mg/kg)
Cyanides (Total) 110 Cyanides (Amenable) 9.1		Bis-(2-ethylhexyl) phthalate 28		Phthalic anhydride (measured as Phthalic acid) 28	
P098 wastewaters	Concentration (in mg/l)	U028 wastewaters	Concentration (in mg/l)	U190 wastewaters	Concentration (in mg/l)
Cyanides (Total) 1.9 Cyanides (Amenable) 0.10		Bis-(2-ethylhexyl) phthalate 0.54		Phthalic anhydride (measured as Phthalic acid) 0.54	
P099 nonwastewaters (see also Table CCWE in § 268.41)	Concentration (in mg/kg)	U068 nonwastewaters	Concentration (in mg/kg)	U235 nonwastewaters	Concentration (in mg/kg)
Cyanides (Total) 110 Cyanides (Amenable) 9.1		Di-n-butyl phthalate 28		tris-(2,3-Dibromopropyl) phosphate 0.1	
P099 wastewaters (see also Table CCWE in § 268.41)	Concentration (in mg/l)	U069 wastewaters	Concentration (in mg/l)	U235 wastewaters	Concentration (in mg/l)
Cyanides (Total) 1.9 Cyanides (Amenable) 0.10		Di-n-butyl phthalate 0.54		tris-(2,3-Dibromopropyl) phosphate 0.025	
P104 nonwastewaters (see also Table CCWE in § 268.41)	Concentration (in mg/kg)	U088 nonwastewaters	Concentration (in mg/kg)	No Land Disposal for: K005 Nonwastewaters generated by the process described in the waste listing description, and disposed after June 8, 1989 and not generated in the course of treating wastewater forms of these wastes. (Based on No Generation) K007 Nonwastewaters generated by the process described in the waste listing description, and disposed after June 8, 1989 and not generated in the course of treating wastewater forms of these wastes. (Bas. on No Generation)	
Cyanides (Total) 110 Cyanides (Amenable) 9.1		Diethyl phthalate 28			
P104 wastewaters (see also Table CCWE in § 268.41)	Concentration (in mg/l)	U088 wastewaters	Concentration (in mg/l)		
Cyanides (Total) 1.9 Cyanides (Amenable) 0.10		Diethyl phthalate 0.54			

**RCRA REVISION CHECKLIST 63: Land Disposal Restrictions
for Second Third Scheduled Wastes (cont'd)**

FEDERAL REQUIREMENT	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:		
			EQUIV- ALENT	MORE STRINGENT	BROADER IN SCOPE
meet lowest constituent treatment standard when mix wastes with differing treatment standards for a constituent of concern	268.43(b)	HWMR- 7 PART VIII §801	X 		