

§ 264.1202

40 CFR Ch. I (7-1-98 Edition)

**§ 264.1202 Closure and post-closure care.**

(a) At closure of a magazine or unit which stored hazardous waste under this subpart, the owner or operator must remove or decontaminate all waste residues, contaminated containment system components, contaminated subsoils, and structures and equipment contaminated with waste, and manage them as hazardous waste unless § 261.3(d) of this chapter applies. The closure plan, closure activities, cost estimates for closure, and financial responsibility for magazines or units must meet all of the requirements specified in subparts G and H of this part, except that the owner or operator may defer closure of the unit as long as it remains in service as a munitions or explosives magazine or storage unit.

(b) If, after removing or decontaminating all residues and making all reasonable efforts to effect removal or decontamination of contaminated components, subsoils, structures, and equipment as required in paragraph (a) of this section, the owner or operator finds that not all contaminated subsoils can be practicably removed or decontaminated, he or she must close the facility and perform post-closure care in accordance with the closure and post-closure requirements that apply to landfills (§ 264.310).

APPENDICES TO PART 264

APPENDIX I TO PART 264—  
RECORDKEEPING INSTRUCTIONS

The recordkeeping provisions of § 264.73 specify that an owner or operator must keep a written operating record at his facility. This appendix provides additional instructions for keeping *portions* of the operating record. See § 264.73(b) for additional recordkeeping requirements.

The following information must be recorded, as it becomes available, and maintained in the operating record until closure of the facility in the following manner:

Records of each hazardous waste received, treated, stored, or disposed of at the facility which include the following:

(1) A description by its common name and the EPA Hazardous Waste Number(s) from part 261 of this chapter which apply to the waste. The waste description also must include the waste's physical form, i.e., liquid, sludge, solid, or contained gas. If the waste

is not listed in part 261, subpart D, of this chapter, the description also must include the process that produced it (for example, solid filter cake from production of —, EPA Hazardous Waste Number W051).

Each hazardous waste listed in part 261, subpart D, of this chapter, and each hazardous waste characteristic defined in part 261, subpart C, of this chapter, has a four-digit EPA Hazardous Waste Number assigned to it. This number must be used for record-keeping and reporting purposes. Where a hazardous waste contains more than one listed hazardous waste, or where more than one hazardous waste characteristic applies to the waste, the waste description must include all applicable EPA Hazardous Waste Numbers.

(2) The estimated or manifest-reported weight, or volume and density, where applicable, in one of the units of measure specified in Table 1;

TABLE 1

Unit of measure	Code <sup>1</sup>
Gallons .....	G
Gallons per Hour .....	E
Gallons per Day .....	U
Liters .....	L
Liters per Hour .....	H
Liters per Day .....	V
Short Tons per Hour .....	D
Metric Tons per Hour .....	W
Short Tons per Day .....	N
Metric Tons per Day .....	S
Pounds per Hour .....	J
Kilograms per Hour .....	R
Cubic Yards .....	Y
Cubic Meters .....	C
Acres .....	B
Acre-feet .....	A
Hectares .....	Q
Hectare-meter .....	F
Btu's per Hour .....	I

<sup>1</sup> Single digit symbols are used here for data processing purposes.

(3) The method(s) (by handling code(s) as specified in Table 2) and date(s) of treatment, storage, or disposal.

Table 2.—Handling Codes for Treatment, Storage and Disposal Methods

Enter the handling code(s) listed below that most closely represents the technique(s) used at the facility to treat, store or dispose of each quantity of hazardous waste received.

1. Storage

- S01 Container (barrel, drum, etc.)
- S02 Tank
- S03 Waste Pile
- S04 Surface Impoundment
- S05 Drip Pad
- S06 Containment Building (Storage)
- S99 Other Storage (specify)

## 2. Treatment

## (a) Thermal Treatment—

- T06 Liquid Injection incinerator
- T07 Rotary kiln incinerator
- T08 Fluidized bed incinerator
- T09 Multiple hearth incinerator
- T10 Infrared furnace incinerator
- T11 Molten salt destructor
- T12 Pyrolysis
- T13 Wet air oxidation
- T14 Calcination
- T15 Microwave discharge
- T18 Other (specify)

## (b) Chemical Treatment—

- T19 Absorption mound
- T20 Absorption field
- T21 Chemical fixation
- T22 Chemical oxidation
- T23 Chemical precipitation
- T24 Chemical reduction
- T25 Chlorination
- T26 Chlorinolysis
- T27 Cyanide destruction
- T28 Degradation
- T29 Detoxification
- T30 Ion exchange
- T31 Neutralization
- T32 Ozonation
- T33 Photolysis
- T34 Other (specify)

## (c) Physical Treatment—

## (1) Separation of components:

- T35 Centrifugation
- T36 Clarification
- T37 Coagulation
- T38 Decanting
- T39 Encapsulation
- T40 Filtration
- T41 Flocculation
- T42 Flotation
- T43 Foaming
- T44 Sedimentation
- T45 Thickening
- T46 Ultrafiltration
- T47 Other (specify)

## (2) Removal of Specific Components:

- T48 Absorption-molecular sieve
- T49 Activated carbon
- T50 Blending
- T51 Catalysis
- T52 Crystallization
- T53 Dialysis
- T54 Distillation
- T55 Electrodialysis
- T56 Electrolysis
- T57 Evaporation
- T58 High gradient magnetic separation
- T59 Leaching
- T60 Liquid ion exchange
- T61 Liquid-liquid extraction
- T62 Reverse osmosis

T63 Solvent recovery

T64 Stripping

T65 Sand filter

T66 Other (specify)

## (d) Biological Treatment

- T67 Activated sludge
- T68 Aerobic lagoon
- T69 Aerobic tank
- T70 Anaerobic tank
- T71 Composting
- T72 Septic tank
- T73 Spray irrigation
- T74 Thickening filter
- T75 Trickling filter
- T76 Waste stabilization pond
- T77 Other (specify)
- T78 [Reserved]
- T79 [Reserved]

## (e) Boilers and Industrial Furnaces

- T80 Boiler
- T81 Cement Kiln
- T82 Lime Kiln
- T83 Aggregate Kiln
- T84 Phosphate Kiln
- T85 Coke Oven
- T86 Blast Furnace
- T87 Smelting, Melting, or Refining Furnace
- T88 Titanium Dioxide Chloride Process Oxidation Reactor
- T89 Methane Reforming Furnace
- T90 Pulping Liquor Recovery Furnace
- T91 Combustion Device Used in the Recovery of Sulfur Values from Spent Sulfuric Acid
- T92 Halogen Acid Furnaces
- T93 Other Industrial Furnaces Listed in 40 CFR 260.10 (specify)

## (f) Other Treatment

- T94 Containment Building (Treatment)

## 3. Disposal

- D79 Underground Injection
- D80 Landfill
- D81 Land Treatment
- D82 Ocean Disposal
- D83 Surface Impoundment (to be closed as a landfill)
- D99 Other Disposal (specify)

## 4. Miscellaneous (Subpart X)

- X01 Open Burning/Open Detonation
- X02 Mechanical Processing
- X03 Thermal Unit
- X04 Geologic Repository
- X99 Other Subpart X (specify)

[45 FR 33221, May 19, 1980, as amended at 59 FR 13891, Mar. 24, 1994]

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APPENDICES II—III TO PART 264—  
[RESERVED]

APPENDIX IV TO PART 264—COCHRAN'S  
APPROXIMATION TO THE BEHRENS-  
FISHER STUDENTS' T-TEST

Using all the available background data ( $n_b$  readings), calculate the background mean ( $X_b$ ) and background variance ( $s_b^2$ ). For the single monitoring well under investigation ( $n_m$  reading), calculate the monitoring mean ( $X_m$ ) and monitoring variance ( $s_m^2$ ).

For any set of data ( $X_1, X_2, \dots, X_n$ ) the mean is calculated by:

$$\bar{X} = \frac{X_1 + X_2 \dots + X_n}{n}$$

and the variance is calculated by:

$$s^2 = \frac{(X_1 - \bar{X})^2 + (X_2 - \bar{X})^2 \dots + (X_n - \bar{X})^2}{n - 1}$$

where "n" denotes the number of observations in the set of data.

The t-test uses these data summary measures to calculate a t-statistic ( $t^*$ ) and a comparison t-statistic ( $t_c$ ). The  $t^*$  value is compared to the  $t_c$  value and a conclusion reached as to whether there has been a statistically significant change in any indicator parameter.

The t-statistic for all parameters except pH and similar monitoring parameters is:

$$t^* = \frac{X_m - \bar{X}_s}{\sqrt{\frac{S_m^2}{n_m} + \frac{S_b^2}{n_b}}}$$

If the value of this t-statistic is negative then there is no significant difference between the monitoring data and background data. It should be noted that significantly small negative values may be indicative of a failure of the assumption made for test validity or errors have been made in collecting the background data.

The t-statistic ( $t_c$ ), against which  $t^*$  will be compared, necessitates finding  $t_b$  and  $t_m$  from standard (one-tailed) tables where,  $t_b$ =t-tables with ( $n_b - 1$ ) degrees of freedom, at the 0.05 level of significance.

$t_m$ =t-tables with ( $n_m - 1$ ) degrees of freedom, at the 0.05 level of significance.

Finally, the special weightings  $W_b$  and  $W_m$  are defined as:

$$W_B = \frac{s_b^2}{n_b} \quad \text{and} \quad W_m = \frac{s_m^2}{n_m}$$

and so the comparison t-statistic is:

$$t_c = \frac{W_b t_b + W_m t_m}{W_b + W_m}$$

The t-statistic ( $t^*$ ) is now compared with the comparison t-statistic ( $t_c$ ) using the following decision-rule:

If  $t^*$  is equal to or larger than  $t_c$ , then conclude that there most likely has been a significant increase in this specific parameter. If  $t^*$  is less than  $t_c$ , then conclude that most likely there has not been a change in this specific parameter.

The t-statistic for testing pH and similar monitoring parameters is constructed in the same manner as previously described except the negative sign (if any) is discarded and the caveat concerning the negative value is ignored. The standard (two-tailed) tables are used in the construction  $t_c$  for pH and similar monitoring parameters.

If  $t^*$  is equal to or larger than  $t_c$ , then conclude that there most likely has been a significant increase (if the initial  $t^*$  had been negative, this would imply a significant decrease). If  $t^*$  is less than  $t_c$ , then conclude that there most likely has been no change.

A further discussion of the test may be found in *Statistical Methods* (6th Edition, Section 4.14) by G. W. Snedecor and W. G. Cochran, or *Principles and Procedures of Statistics* (1st Edition, Section 5.8) by R. G. D. Steel and J. H. Torrie.

STANDARD T—TABLES 0.05 LEVEL OF SIGNIFICANCE

Degrees of freedom	t-values (one-tail)	t-values (two-tail)
1	6.314	12.706
2	2.920	4.303
3	2.353	3.182
4	2.132	2.776
5	2.015	2.571
6	1.943	2.447
7	1.895	2.365
8	1.860	2.306
9	1.833	2.262
10	1.812	2.228
11	1.796	2.201
12	1.782	2.179
13	1.771	2.160
14	1.761	2.145
15	1.753	2.131
16	1.746	2.120
17	1.740	2.110
18	1.734	2.101
19	1.729	2.093
20	1.725	2.086
21	1.721	2.080
22	1.717	2.074
23	1.714	2.069
24	1.711	2.064

STANDARD T—TABLES 0.05 LEVEL OF SIGNIFICANCE—Continued

Degrees of freedom	t-values (one-tail)	t-values (two-tail)
25 .....	1.708	2.060
30 .....	1.697	2.042
40 .....	1.684	2.021

Adopted from Table III of "Statistical Tables for Biological, Agricultural, and Medical Research" (1947, R. A. Fisher and F. Yates).

[47 FR 32367, July 26, 1982]

APPENDIX V TO PART 264—EXAMPLES OF POTENTIALLY INCOMPATIBLE WASTE

Many hazardous wastes, when mixed with other waste or materials at a hazardous waste facility, can produce effects which are harmful to human health and the environment, such as (1) heat or pressure, (2) fire or explosion, (3) violent reaction, (4) toxic dusts, mists, fumes, or gases, or (5) flammable fumes or gases.

Below are examples of potentially incompatible wastes, waste components, and materials, along with the harmful consequences which result from mixing materials in one group with materials in another group. The list is intended as a guide to owners or operators of treatment, storage, and disposal facilities, and to enforcement and permit granting officials, to indicate the need for special precautions when managing these potentially incompatible waste materials or components.

This list is not intended to be exhaustive. An owner or operator must, as the regulations require, adequately analyze his wastes so that he can avoid creating uncontrolled substances or reactions of the type listed below, whether they are listed below or not.

It is possible for potentially incompatible wastes to be mixed in a way that precludes a reaction (e.g., adding acid to water rather than water to acid) or that neutralizes them (e.g., a strong acid mixed with a strong base), or that controls substances produced (e.g., by generating flammable gases in a closed tank equipped so that ignition cannot occur, and burning the gases in an incinerator).

In the lists below, the mixing of a Group A material with a Group B material may have the potential consequence as noted.

GROUP 1-A

- Acetylene sludge
- Alkaline caustic liquids
- Alkaline cleaner
- Alkaline corrosive liquids
- Alkaline corrosive battery fluid
- Caustic wastewater
- Lime sludge and other corrosive alkalies
- Lime wastewater
- Lime and water

Spent caustic

GROUP 1-B

- Acid sludge
- Acid and water
- Battery acid
- Chemical cleaners
- Electrolyte, acid
- Etching acid liquid or solvent
- Pickling liquor and other corrosive acids
- Spent acid
- Spent mixed acid
- Spent sulfuric acid

Potential consequences: Heat generation; violent reaction.

GROUP 2-A

- Aluminum
- Beryllium
- Calcium
- Lithium
- Magnesium
- Potassium
- Sodium
- Zinc powder
- Other reactive metals and metal hydrides

GROUP 2-B

Any waste in Group 1-A or 1-B

Potential consequences: Fire or explosion; generation of flammable hydrogen gas.

GROUP 3-A

- Alcohols
- Water

GROUP 3-B

Any concentrated waste in Groups 1-A or 1-B

- Calcium
- Lithium
- Metal hydrides
- Potassium
- SO<sub>2</sub> Cl<sub>2</sub>, SOCl<sub>2</sub>, PCl<sub>3</sub>, CH<sub>3</sub> SiCl<sub>3</sub>
- Other water-reactive waste

Potential consequences: Fire, explosion, or heat generation; generation of flammable or toxic gases.

GROUP 4-A

- Alcohols
- Aldehydes
- Halogenated hydrocarbons
- Nitrated hydrocarbons
- Unsaturated hydrocarbons
- Other reactive organic compounds and solvents

GROUP 4-B

- Concentrated Group 1-A or 1-B wastes
- Group 2-A wastes
- Potential consequences: Fire, explosion, or violent reaction.

GROUP 5-A			ARIZONA
Spent cyanide and sulfide solutions		Cochise Graham	Greenlee Yuma
GROUP 5-B			CALIFORNIA
Group 1-B wastes		All	
Potential consequences: Generation of toxic hydrogen cyanide or hydrogen sulfide gas.			COLORADO
GROUP 6-A			HAWAII
Chlorates		Archuleta Conejos Hinsdale	Mineral Rio Grande Saguache
Chlorine			
Chlorites			
Chromic acid			
Hypochlorites		Hawaii	
Nitrates			IDAHO
Nitric acid, fuming		Bannock	Franklin
Perchlorates		Bear Lake	Fremont
Permanganates		Bingham	Jefferson
Peroxides		Bonneville	Madison
Other strong oxidizers		Caribou	Oneida
		Cassia	Power
		Clark	Teton
GROUP 6-B			MONTANA
Acetic acid and other organic acids			
Concentrated mineral acids			
Group 2-A wastes		Beaverhead	Madison
Group 4-A wastes		Broadwater	Meagher
Other flammable and combustible wastes		Cascade	Missoula
Potential consequences: Fire, explosion, or violent reaction.		Deer Lodge	Park
		Flathead	Powell
		Gallatin	Sanders
		Granite	Silver Bow
		Jefferson	Stillwater
		Lake	Sweet Grass
		Lewis and Clark	Teton
			Wheatland
APPENDIX VI TO PART 264—POLITICAL JURISDICTIONS <sup>1</sup> IN WHICH COMPLIANCE WITH § 264.18(a) MUST BE DEMONSTRATED			NEVADA
ALASKA		All	
Aleutian Islands	Kodiak	Bernalillo	Sandoval
Anchorage	Lynn Canal-Icy Straits	Catron	Sante Fe
Bethel	Palmer-Wasilla-Talkeena	Grant	Sierra
Bristol Bay	Seward	Hidalgo	Socorro
Cordova-Valdez	Sitka	Los Alamos	Taos
Fairbanks-Fort Yukon	Wade Hampton	Rio Arriba	Torrance
Juneau	Wrangell Petersburg		Valencia
Kenai-Cook Inlet	Yukon-Kuskokwim	Beaver	
Ketchikan-Prince of Wales		Box Elder	UTAH
		Cache	Piute
		Carbon	Rich
		Davis	Salt Lake
		Duchesne	Sanpete
		Emery	Sevier
		Garfield	Summit
		Iron	Tooele
		Juab	Utah
		Millard	Wasatch
		Morgan	Washington
			Wayne
			Weber

<sup>1</sup>These include counties, city-county consolidations, and independent cities. In the case of Alaska, the political jurisdictions are election districts, and, in the case of Hawaii, the political jurisdiction listed is the island of Hawaii.

Environmental Protection Agency

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	WASHINGTON	Thurston Wahkiakum	Whatcom Yakima
Chelan	Kittitas		
Clallam	Lewis		
Clark	Mason		WYOMING
Cowlitz	Okanogan	Fremont	Teton
Douglas	Pacific	Lincoln	Uinta
Ferry	Pierce	Park	Yellowstone National
Grant	San Juan Islands	Sublette	Park
Grays Harbor	Skagit	[46 FR 57285, Nov. 23, 1981; 47 FR 953, Jan. 8, 1982]	
Jefferson	Skamania		
King	Snohomish		
Kitsap			

APPENDICES VII—VIII TO PART 264  
[RESERVED]

APPENDIX IX TO PART 264—GROUND-WATER MONITORING LIST<sup>1</sup>

GROUND-WATER MONITORING LIST<sup>1</sup>

Common name <sup>2</sup>	CAS RN <sup>3</sup>	Chemical abstracts service index name <sup>4</sup>	Sug- gested meth- ods <sup>5</sup>	PQL (μ g/L) <sup>6</sup>
Acenaphthene	83-32-9	Acenaphthylene, 1,2-dihydro	8100 8270	200 10
Acenaphthylene	208-96-8	Acenaphthylene	8100 8270	200 10
Acetone	67-64-1	2-Propanone	8240	100
Acetophenone	98-86-2	Ethanone, 1-phenyl-	8270	10
Acetonitrile; Methyl cyanide	75-05-8	Acetonitrile	8015	100
2-Acetylaminofluorene; 2-AAF	53-96-3	Acetamide, N-9H-fluoren-2-yl-	8270	10
Acrolein	107-02-8	2-Propenal	8030 8240	5 5
Acrylonitrile	107-13-1	2-Propenenitrile	8030 8240	5 5
Aldrin	309-00-2	1,4,5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro- 1,4,4a,5,8,8a-hexahydro- (1α,4α, 4aβ, 5α,8α,8aβ)-	8080 8270	0.05 10
Allyl chloride	107-05-1	1-Propene, 3-chloro-	8010 8240	5 100
4-Aminobiphenyl	92-67-1	[1,1'-Biphenyl]- 4-amine	8270	10
Aniline	62-53-3	Benzenamine	8270	10
Anthracene	120-12-7	Anthracene	8100 8270	200 10
Antimony	(Total)	Antimony	6010 7040	300 2,000
Aramite	140-57-8	Sulfurous acid, 2-chloroethyl 2-[4-(1,1-dimethylethyl)phenoxy]-1-methylethyl ester.	7041 8270	30 10
Arsenic	(Total)	Arsenic	6010 7060 7061	500 10 20
Barium	(Total)	Barium	6010 7080	20 1,000
Benzene	71-43-2	Benzene	8020 8240	2 5
Benzo[a]anthracene; Benzanthracene.	56-55-3	Benzo[a]anthracene	8100 8270	200 10
Benzo[b]fluoranthene	205-99-2	Benzo[e]acephenanthrylene	8100 8270	200 10
Benzo[k]fluoranthene	207-08-9	Benzo[k]fluoranthene	8100 8270	200 10
Benzo[ghi]perylene	191-24-2	Benzo[ghi]perylene	8100 8270	200 10
Benzo[a]pyrene	50-32-8	Benzo[a]pyrene	8100 8270	200 10
Benzyl alcohol	100-51-6	Benzenemethanol	8270	20
Beryllium	(Total)	Beryllium	6010 7090	3 50
alpha-BHC	319-84-6	Cyclohexane, 1,2,3,4,5,6-hexachloro-(1α, 2α,3β, 4α,5β,6β)-	7091 8080 8250	2 0.05 10

## GROUND-WATER MONITORING LIST 1—Continued

Common name <sup>2</sup>	CAS RN <sup>3</sup>	Chemical abstracts service index name <sup>4</sup>	Sug- gested meth- ods <sup>5</sup>	PQL (µ g/L) <sup>6</sup>
beta-BHC .....	319-85-7	Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1α,2β, 3α,4β, 5α,6β)-	8080	0.05
delta-BHC .....	319-86-8	Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1α,2α, 3α, 4β,5α,6β)-	8250 8080	40 0.1
gamma-BHC; Lindane .....	58-89-9	Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1α, 2α, 3β, 4α,5α,6β)-	8250 8080	30 0.05
Bis(2-chloroethoxy)methane .....	111-91-1	Ethane, 1,1'-(methylenebis (oxy))bis [2-chloro-	8270	10
Bis(2-chloroethoxy)ether .....	111-44-4	Ethane, 1,1'-oxybis[2-chloro-	8270	10
Bis(2-chloro-1-methylethyl) ether; 2,2'-Di- chlorodisopropyl ether.	108-80-1	Propane, 2,2'-oxybis[1-chloro-	8010	100
Bis(2-ethylhexyl) phthalate .....	117-81-7	1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl)ester	8270	10
Bromodichloromethane .....	75-27-4	Methane, bromodichloro-	8010	1
Bromoform; Tribromomethane ...	75-25-2	Methane, tribromo-	8240 8010	5 2
4-Bromophenyl phenyl ether .....	101-65-3	Benzene, 1-bromo-4-phenoxy-	8270	10
Butyl benzyl phthalate; Benzyl butyl phthalate	85-68-7	1,2-Benzenedicarboxylic acid, butyl phenyl/methyl ester.	8080 8270	5 10
Cadmium .....	(Total)	Cadmium .....	6010	40
Carbon disulfide .....	75-15-0	Carbon disulfide .....	7130	50
Carbon tetrachloride .....	56-23-5	Methane, tetrachloro-	7131	1
Chlordane .....	57-74-9	4,7-Methano-1H-indene, 1,2,4,5,6,7,8,8-octachloro- 2,3,3a,4,7,7a- hexahydro-	8240 8080	5 0.1
p-Chloroaniline .....	106-47-8	Benzenamine, 4-chloro-	8250	10
Chlorobenzene .....	108-90-7	Benzene, chloro-	8270	20
Chlorobenzilate .....	510-15-6	Benzenoacetic acid, 4-chloro-α-(4-chlorophenyl)-α- hydroxy-, ethyl ester.	8010	2
p-Chloro-m-cresol .....	59-50-7	Phenol, 4-chloro-3-methyl-	8020 8240	2 5
Chloroethane; Ethyl chloride .....	75-00-3	Ethane, chloro-	8270	10
Chloroform .....	67-66-3	Methane, trichloro-	8010	0.5
2-Chloronaphthalene .....	91-58-7	Naphthalene, 2-chloro-	8240	5
2-Chlorophenol .....	95-57-8	Phenol, 2-chloro-	8120	10
4-Chlorophenyl phenyl ether .....	7005-72-3	Benzene, 1-chloro-4-phenoxy-	8270	10
Chloroprene .....	126-99-8	1,3-Butadiene, 2-chloro-	8270	10
Chromium .....	(Total)	Chromium .....	8010	5
Chrysene .....	218-01-9	Chrysene .....	6010	70
Cobalt .....	(Total)	Cobalt .....	7190	500
Copper .....	(Total)	Copper .....	7191	10
m-Cresol .....	108-39-4	Phenol, 3-methyl-	8100	200
o-Cresol .....	95-48-7	Phenol, 2-methyl-	8270	10
p-Cresol .....	106-44-5	Phenol, 4-methyl-	8270	10
Cyanide .....	57-12-5	Cyanide .....	8270	10
2,4-D; 2,4- Dichlorophenoxyacetic acid.	94-75-7	Acetic acid, (2,4-dichlorophenoxy)-	8010	40
4,4'-DDD .....	72-54-8	Benzene, 1,1'-(2,2-dichloroethylidene) bis[4-chloro-	8150	10
4,4'-DDE .....	72-55-9	Benzene, 1,1'-(dichloroethylidene) bis[4-chloro-	8080 8270	0.1 10
			8080	0.05
			8270	10

## GROUND-WATER MONITORING LIST 1—Continued

Common name <sup>2</sup>	CAS RN <sup>3</sup>	Chemical abstracts service index name <sup>4</sup>	Sug- gested meth- ods <sup>5</sup>	PQL g/L) <sup>6</sup> (μ
4,4'-DDT .....	50-29-3	Benzene, 1,1'-(2,2,2-trichloroethylidene) bis[4-chloro-	8080	0.1
Diallate .....	2303-18-4	Carbamothioic acid, bis(1-methylethyl)-, S- (2,3- dichloro-2-propenyl) ester.	8270 8270	10 10
Dibenz[a,h]anthracene .....	53-70-3	Dibenz[a,h]anthracene .....	8100	200
Dibenzofuran .....	132-64-9	Dibenzofuran .....	8270	10
Dibromochloromethane; Chlorodibromomethane	124-48-1	Methane, dibromochloro- .....	8010	1
1,2-Dibromo-3-chloropropane; DBCP.	96-12-8	Propane, 1,2-dibromo-3-chloro- .....	8240 8010	5 100
1,2-Dibromoethane; Ethylene dibromide.	106-93-4	Ethane, 1,2-dibromo- .....	8270 8010	10 10
Di-n-butyl phthalate .....	84-74-2	1,2-Benzenedicarboxylic acid, dibutyl ester .....	8240 8060	5 5
o-Dichlorobenzene .....	95-50-1	Benzene, 1,2-dichloro- .....	8270 8010	10 2
m-Dichlorobenzene .....	541-73-1	Benzene, 1,3-dichloro- .....	8020 8120 8270	5 10 10
p-Dichlorobenzene .....	106-46-7	Benzene, 1,4-dichloro- .....	8010 8020 8120 8270	2 5 10 10
3,3'-Dichlorobenzidine .....	91-94-1	[1,1'-Biphenyl]-4,4'-diamine, 3,3'-dichloro- .....	8270	20
trans-1,4-Dichloro-2-butene .....	110-57-6	2-Butene, 1,4-dichloro-, (E)- .....	8240	5
Dichlorodifluoromethane .....	75-71-8	Methane, dichlorodifluoro- .....	8010	10
1,1-Dichloroethane .....	75-34-3	Ethane, 1,1-dichloro- .....	8240 8010	5 1
1,2-Dichloroethane; Ethylene di- chloride.	107-06-2	Ethane, 1,2-dichloro- .....	8240 8010	5 0.5
1,1-Dichloroethylene; Vinylidene chloride.	75-35-4	Ethene, 1,1-dichloro- .....	8010	1
trans-1,2-Dichloroethylene .....	156-60-5	Ethene, 1,2-dichloro-, (E)- .....	8240 8010	5 1
2,4-Dichlorophenol .....	120-83-2	Phenol, 2,4-dichloro- .....	8040 8270	5 10
2,6-Dichlorophenol .....	87-65-0	Phenol, 2,6-dichloro- .....	8270	10
1,2-Dichloropropane .....	78-67-5	Propane, 1,2-dichloro- .....	8010 8240	0.5 5
cis-1,3-Dichloropropene .....	10061-01-5	1-Propene, 1,3-dichloro-, (Z)- .....	8010	20
trans-1,3-Dichloropropene .....	10061-02-6	1-Propene, 1,3-dichloro-, (E)- .....	8240 8010	5 5
Dieldrin .....	60-57-1	2,7:3,6-Dimethanonaphth [2,3-b]oxirene, 3,4,5,6,9,9- hexachloro- 1a,2,2a,3,6,6a,7,7a- (1aα,2β, 2aα, 3β,6β,6aα,7β,7aα)- octahydro-	8080 8270	0.05 10
Diethyl phthalate .....	84-66-2	1,2-Benzenedicarboxylic acid, diethyl ester .....	8060	5
O,O-Diethyl O-2-pyrazinyl phosphorothioate; Thionazin Dimethoate .....	297-97-2	Phosphorothioic acid, O,O-diethyl O-pyrazinyl ester ..	8270 8270	10 10
p-(Dimethylamino)azobenzene ..	60-11-7	Phosphorodithioic acid, O,O-dimethyl S-[2- (methylamino)-2-oxoethyl] ester.	8270	10
7,12-Dimethylbenz[a]anthracene	57-97-6	Benzenamine, N,N-dimethyl-4-(phenylazo)- .....	8270	10
3,3'-Dimethylbenzidine .....	119-93-7	Benz[a]anthracene, 7,12-dimethyl- .....	8270	10
alpha, alpha- Dimethylphenethylamine.	122-09-8	[1,1'-Biphenyl]-4,4'-diamine, 3,3'-dimethyl- .....	8270	10
2,4-Dimethylphenol .....	105-67-9	Benzeneethanamine, α,α-dimethyl- .....	8040	5
Dimethyl phthalate .....	131-11-3	Phenol, 2,4-dimethyl- .....	8270 8060	10 5
m-Dinitrobenzene .....	99-65-0	1,2-Benzenedicarboxylic acid, dimethyl ester .....	8270	10
4,6-Dinitro-o-cresol .....	534-52-1	Benzene, 1,3-dinitro- .....	8270 8040	10 150
		Phenol, 2-methyl-4,6-dinitro- .....	8270	50

## GROUND-WATER MONITORING LIST 1—Continued

Common name <sup>2</sup>	CAS RN <sup>3</sup>	Chemical abstracts service index name <sup>4</sup>	Sug- gested meth- ods <sup>5</sup>	PQL g/L) <sup>6</sup> (μ
2,4-Dinitrophenol .....	51-28-5	Phenol, 2,4-dinitro- .....	8040 8270	150 50
2,4-Dinitrotoluene .....	121-14-2	Benzene, 1-methyl-2,4-dinitro- .....	8090 8270	0.2 10
2,6-Dinitrotoluene .....	606-20-2	Benzene, 2-methyl-1,3-dinitro- .....	8090 8270	0.1 10
Dinoseb; DNBP; 2-sec-Butyl- 4,6-dinitrophenol .....	88-85-7	Phenol, 2-(1-methylpropyl)-4,6-dinitro- .....	8150 8270	1 10
Di-n-octyl phthalate .....	117-84-0	1,2-Benzenedicarboxylic acid, dioctyl ester .....	8060 8270	30 10
1,4-Dioxane .....	123-91-1	1,4-Dioxane .....	8015	150
Diphenylamine .....	122-39-4	Benzenamine, N-phenyl- .....	8270	10
Disulfoton .....	298-04-4	Phosphorodithioic acid, O,O-dieethyl S-[2- (ethylthio)ethyl]ester .....	8140 8270	2 10
Endosulfan I .....	959-98-8	6,9-Methano-2,4,3-benzodioxathiepin, 6,7,8,9,10,10- hexachloro-1,5,5a,6,9,9a-hexahydro-, 3-oxide, (3α,5aβ,6α,9α,9aβ)- .....	8080 8250	0.1 10
Endosulfan II .....	33213-85-9	6,9-Methano-2,4,3-benzodioxathiepin, 6,7,8,9,10,10- hexachloro-1,5,5a,6,9,9a-hexahydro-, 3-oxide, (3α,5aα,6β,9β,9aα)- .....	8080	0.05
Endosulfan sulfate .....	1031-07-8	6,9-Methano-2,4,3-benzodioxathiepin, 6,7,8,9,10,10- hexachloro-1,5,5a,6,9,9a-hexahydro-, 3,3-dioxide .....	8080 8270	0.5 10
Endrin .....	72-20-8	2,7:3,6-Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,9,9- hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1α, 2β,2aβ,3α,6α,6aβ,7β,7aα)- .....	8080 8250	0.1 10
Endrin aldehyde .....	7421-93-4	1,2,4-Methenocyclopenta[cd]pentalene-5- carboxaldehyde, 2,2a,3,3,4,7- hexachlorodecahydro-, (1α,2β, 2aβ,4β, 4aβ,5β,6aβ,6bβ,7R*)- .....	8080 8270	0.2 10
Ethylbenzene .....	100-41-4	Benzene, ethyl- .....	8020 8240	2 5
Ethyl methacrylate .....	97-63-2	2-Propenoic acid, 2-methyl-, ethyl ester .....	8015 8240 8270	10 5 10
Ethyl methanesulfonate .....	62-50-0	Methanesulfonic acid, ethyl ester .....	8270	10
Famphur .....	52-85-7	Phosphorothioic acid, O-[4- [(dimethylamino)sulfonyl]phenyl]-O,O-dimethyl ester .....	8270	10
Fluoranthene .....	206-44-0	Fluoranthene .....	8100 8270	200 10
Fluorene .....	86-73-7	9H-Fluorene .....	8100 8270	200 10
Heptachlor .....	76-44-8	4,7-Methano-1H-indene, 1,4,5,6,7,8,8-heptachloro- 3a,4,7,7a-tetrahydro- .....	8080 8270	0.05 10
Heptachlor epoxide .....	1024-57-3	2,5-Methano-2H-indeno[1,2-b]oxirene, 2,3,4,5,6,7,7- heptachloro-1a,1b,5,5a,6,6a,-hexahydro-, (1aα,1bβ,2α,5α,5aβ,6β,6aα)- .....	8080 8270	1 10
Hexachlorobenzene .....	118-74-1	Benzene, hexachloro- .....	8120 8270	0.5 10
Hexachlorobutadiene .....	87-68-3	1,3-Butadiene, 1,1,2,3,4,4-hexachloro- .....	8120 8270	5 10
Hexachlorocyclopentadiene .....	77-47-4	1,3-Cyclopentadiene, 1,2,3,4,5,5-hexachloro- .....	8120 8270	5 10
Hexachloroethane .....	67-72-1	Ethane, hexachloro- .....	8120 8270	0.5 10
Hexachlorophene .....	70-30-4	Phenol, 2,2'-methylenebis[3,4,6-trichloro- .....	8270	10
Hexachloropropene .....	1888-71-7	1-Propene, 1,1,2,3,3,3-hexachloro- .....	8270	10
2-Hexanone .....	591-78-6	2-Hexanone .....	8240	50
Indeno(1,2,3-cd)pyrene .....	193-39-5	Indeno[1,2,3-cd]pyrene .....	8100 8270	200 10
Isobutyl alcohol .....	78-83-1	1-Propanol, 2-methyl- .....	8015	50
Isodrin .....	465-73-6	1,4,5,8-Dimethanonaphthalene, 1,2,3,4,10,10- hexachloro-1,4,4a,5,6,8a-hexahydro-(1α,4α,4aβ, 5β,8β,8aβ)- .....	8270	10
Isophorone .....	78-59-1	2-Cyclohexen-1-one, 3,5,5-trimethyl- .....	8090 8270	60 10
Isosafrole .....	120-58-1	1,3-Benzodioxole, 5-(1-propenyl)- .....	8270	10
Kepone .....	143-50-0	1,3,4-Metheno-2H-cyclobuta-[cd]pentalen-2-one, 1,1a,3,3a,4,5,5a,5b,6,-decachlorooctahydro- .....	8270	10
Lead .....	(Total)	Lead .....	6010	40

GROUND-WATER MONITORING LIST 1—Continued

Common name <sup>2</sup>	CAS RN <sup>3</sup>	Chemical abstracts service index name <sup>4</sup>	Sug- gested meth- ods <sup>5</sup>	PQL (µ g/L) <sup>6</sup>
			7420	1,000
			7421	10
Mercury .....	(Total)	Mercury .....	7470	2
Methacrylonitrile .....	126-98-7	2-Propenenitrile, 2-methyl- .....	8015	5
			8240	5
Methacrylonitrile .....	91-80-5	1,2-Ethanediamine, N,N-dimethyl-N'-2- pyridinyl- N'- (2-thienylmethyl)- .....	8270	10
Methoxychlor .....	72-43-6	Benzene, 1,1'-(2,2,2, trichloroethylidene)bis[4- methoxy- .....	8080	2
			8270	10
Methyl bromide; Bromomethane	74-83-9	Methane, bromo- .....	8010	20
			8240	10
Methyl chloride; Chloromethane	74-87-3	Methane, chloro- .....	8010	1
			8240	10
3-Methylcholanthrene .....	56-49-5	Benz[j]aceanthrylene, 1,2-dihydro-3-methyl- .....	8270	10
Methylene bromide; Dibromomethane.	74-95-3	Methane, dibromo- .....	8010	15
			8240	5
Methylene chloride; Dichloromethane.	75-09-2	Methane, dichloro- .....	8010	5
			8240	5
Methyl ethyl ketone; MEK .....	78-93-3	2-Butanone .....	8015	10
			8240	100
Methyl iodide; Iodomethane .....	74-88-4	Methane, iodo- .....	8010	40
			8240	5
Methyl methacrylate .....	80-62-6	2-Propenoic acid, 2-methyl-, methyl ester .....	8015	2
			8240	5
Methyl methanesulfonate .....	66-27-3	Methanesulfonic acid, methyl ester .....	8270	10
2-Methylnaphthalene .....	91-57-6	Naphthalene, 2-methyl- .....	8270	10
Methyl parathion; Parathion methyl.	298-00-0	Phosphorothioic acid, O,O-dimethyl O-(4-nitrophenyl) ester. .....	8140	0.5
			8270	10
4-Methyl-2-pentanone; Methyl isobutyl ketone.	108-10-1	2-Pentanone, 4-methyl- .....	8015	5
			8240	50
Naphthalene .....	91-20-3	Naphthalene .....	8100	200
			8270	10
1,4-Naphthoquinone .....	130-15-4	1,4-Naphthalenedione .....	8270	10
1-Naphthylamine .....	134-32-7	1-Naphthalenamine .....	8270	10
2-Naphthylamine .....	91-59-8	2-Naphthalenamine .....	8270	10
Nickel .....	(Total)	Nickel .....	6010	50
			7520	400
o-Nitroaniline .....	88-74-4	Benzenamine, 2-nitro- .....	8270	50
m-Nitroaniline .....	99-09-2	Benzenamine, 3-nitro- .....	8270	50
p-Nitroaniline .....	100-01-6	Benzenamine, 4-nitro- .....	8270	50
Nitrobenzene .....	98-95-3	Benzene, nitro- .....	8080	40
			8270	10
o-Nitrophenol .....	88-75-6	Phenol, 2-nitro- .....	8040	5
			8270	10
p-Nitrophenol .....	100-02-7	Phenol, 4-nitro- .....	8040	10
			8270	50
4-Nitroquinoline 1-oxide .....	56-57-5	Quinoline, 4-nitro-, 1-oxide .....	8270	10
N-Nitrosodi-n-butylamine .....	924-16-3	1-Butanamine, N-butyl-N-nitroso- .....	8270	10
N-Nitrosodiethylamine .....	55-18-5	Ethanamine, N-ethyl-N-nitroso- .....	8270	10
N-Nitrosodimethylamine .....	62-75-9	Methanamine, N-methyl-N-nitroso- .....	8270	10
N-Nitrosodiphenylamine .....	86-30-6	Benzenamine, N-nitroso-N-phenyl- .....	8270	10
N-Nitrosodipropylamine; Di-n- propylnitrosamine.	621-64-7	1-Propanamine, N-nitroso-N-propyl- .....	8270	10
N-Nitrosomethylethylamine .....	10595-95-6	Ethanamine, N-methyl-N-nitroso- .....	8270	10
N-Nitrosomorpholine .....	59-89-2	Morpholine, 4-nitroso- .....	8270	10
N-Nitrosopiperidine .....	100-75-4	Piperidine, 1-nitroso- .....	8270	10
N-Nitrosopyrrolidine .....	930-55-2	Pyrrolidine, 1-nitroso- .....	8270	10
5-Nitro-o-toluidine .....	99-55-8	Benzenamine, 2-methyl-5-nitro- .....	8270	10
Parathion .....	56-38-2	Phosphorothioic acid, O,O-diethyl-O-(4-nitrophenyl) ester .....	8270	10
Polychlorinated biphenyls; PCBs	See Note 7	1,1'-Biphenyl, chloro derivatives .....	8080	50
			8250	100
Polychlorinated dibenzo-p- dioxins; PCDDs.	See Note 8	Dibenzo[b,e][1,4]dioxin, chloro derivatives .....	8280	0.01
Polychlorinated dibenzofurans; PCDFs.	See Note 9	Dibenzofuran, chloro derivatives .....	8280	0.01
Pentachlorobenzene .....	608-93-5	Benzene, pentachloro- .....	8270	10
Pentachloroethane .....	76-01-7	Ethane, pentachloro- .....	8240	5
			8270	10
Pentachloronitrobenzene .....	82-68-8	Benzene, pentachloronitro- .....	8270	10

GROUND-WATER MONITORING LIST<sup>1</sup>—Continued

Common name <sup>2</sup>	CAS RN <sup>3</sup>	Chemical abstracts service index name <sup>4</sup>	Sug- gested meth- ods <sup>5</sup>	PQL (μ g/L) <sup>6</sup>
Pentachlorophenol .....	87-86-5	Phenol, pentachloro- .....	8040	5
Phenacetin .....	62-44-2	Acetamide, N-(4-ethoxyphenyl) .....	8270	50
Phenanthrene .....	85-01-8	Phenanthrene .....	8100	200
Phenol .....	108-95-2	Phenol .....	8270	10
p-Phenylenediamine .....	106-50-3	1,4-Benzenediamine .....	8040	1
Phorate .....	298-02-2	Phosphorodithioic acid, O,O-diethyl [(ethylthio)methyl] ester .....	8270	10
2-Picoline .....	109-06-8	Pyridine, 2-methyl- .....	8140	2
Pronamide .....	23950-58-5	Benzamide, 3,5-dichloro-N-(1,1-dimethyl-2-propynyl)- .....	8270	10
Propionitrile, Ethyl cyanide .....	107-12-0	Propanenitrile .....	8270	10
Pyrene .....	129-00-0	Pyrene .....	8240	5
Pyridine .....	110-86-1	Pyridine .....	8100	200
Safrole .....	94-59-7	1,3-Benzodioxole, 5-(2-propenyl)- .....	8270	10
Selenium .....	(Total)	Selenium .....	8240	5
Silver .....	(Total)	Silver .....	8270	10
Silvex, 2,4,5-TP .....	93-72-1	Propanoic acid, 2-(2,4,5-trichlorophenoxy)- .....	8270	10
Styrene .....	100-42-6	Benzene, ethenyl- .....	8240	5
Sulfide .....	18496-25-8	Sulfide .....	8020	1
2,4,5-T; 2,4,5- Trichlorophenoxyacetic acid, 2,3,7,8-TCDD; 2,3,7,8- Tetrachlorodibenzo-p-dioxin .....	93-76-5	Acetic acid, (2,4,5-trichlorophenoxy)- .....	8240	5
1,2,4,5-Tetrachlorobenzene .....	1746-01-6	Dibenzo[b,e][1,4]dioxin, 2,3,7,8-tetrachloro- .....	8240	5
1,1,1,2-Tetrachloroethane .....	95-94-3	Benzene, 1,2,4,5-tetrachloro- .....	8010	5
1,1,2,2-Tetrachloroethane .....	630-20-6	Ethane, 1,1,1,2-tetrachloro- .....	8240	5
Tetrachloroethylene; Perchloroethylene; Tetrachloroethene .....	79-34-5	Ethane, 1,1,2,2-tetrachloro- .....	8010	0.5
2,3,4,6-Tetrachlorophenol .....	127-18-4	Ethene, tetrachloro- .....	8240	5
Tetraethyl dithiopyrophosphate; Sulfotepp. .....	58-60-2	Phenol, 2,3,4,6-tetrachloro- .....	8010	0.5
Thallium .....	3689-24-5	Thiodiphosphoric acid ((HO) <sub>2</sub> P(S) <sub>2</sub> O), tetraethyl ester .....	8240	5
Tin .....	(Total)	Thallium .....	6010	400
Toluene .....	108-88-3	Tin .....	7840	1,000
o-Toluidine .....	95-53-4	Benzene, methyl- .....	7841	10
Toxaphene .....	8001-35-2	Toxaphene .....	7870	8,000
1,2,4-Trichlorobenzene .....	120-82-1	Benzene, 1,2,4-trichloro- .....	8020	2
1,1,1-Trichloroethane; Methylchloroform .....	71-55-6	Ethane, 1,1,1-trichloro- .....	8240	5
1,1,2-Trichloroethane .....	79-00-5	Ethane, 1,1,2-trichloro- .....	8240	5
Trichloroethylene; Trichloroethene .....	79-01-6	Ethene, trichloro- .....	8010	0.2
Trichlorofluoromethane .....	75-89-4	Methane, trichlorofluoro- .....	8240	5
2,4,5-Trichlorophenol .....	95-95-4	Phenol, 2,4,5-trichloro- .....	8010	10
2,4,6-Trichlorophenol .....	88-06-2	Phenol, 2,4,6-trichloro- .....	8240	5
1,2,3-Trichloropropane .....	96-18-4	Propane, 1,2,3-trichloro- .....	8270	10
O,O,O-Triethyl phosphorothioate	126-88-1	Phosphorothioic acid, O,O,O-triethyl ester .....	8010	10
sym-Trinitrobenzene .....	99-35-4	Benzene, 1,3,5-trinitro- .....	8240	5
			8270	10

GROUND-WATER MONITORING LIST 1—Continued

Common name <sup>2</sup>	CAS RN <sup>3</sup>	Chemical abstracts service index name <sup>4</sup>	Sug- gested meth- ods <sup>5</sup>	PQL (μ g/L) <sup>6</sup>
Vanadium .....	(Total)	Vanadium .....	6010	80
			7910	2,000
			7911	40
Vinyl acetate .....	108-05-4	Acetic acid, ethenyl ester .....	8240	5
Vinyl chloride .....	75-01-4	Ethene, chloro- .....	8010	2
			8240	10
Xylene (total) .....	1330-20-7	Benzene, dimethyl- .....	8020	5
			8240	5
Zinc .....	(Total)	Zinc .....	6010	20
			7950	50

<sup>1</sup>The regulatory requirements pertain only to the list of substances; the right hand columns (Methods and PQL) are given for informational purposes only. See also footnotes 5 and 6.

<sup>2</sup>Common names are those widely used in government regulations, scientific publications, and commerce; synonyms exist for many chemicals.

<sup>3</sup>Chemical Abstracts Service registry number. Where "Total" is entered, all species in the ground water that contain this element are included.

<sup>4</sup>CAS index names are those used in the 9th Cumulative Index.

<sup>5</sup>Suggested methods refer to analytical procedure numbers used in the EPA publication, SW-846, "Test Methods for Evaluating Solid Waste", Third Edition. Analytical details can be found in SW-846 and in documentation on file at the Agency. The packed column gas chromatography methods 8010, 8020, 8030, 8040, 8060, 8080, 8090, 8110, 8120, 8140, 8150, 8240, and 8250 were promulgated through Update IIB of SW-846 and, as of Update III, the Agency has replaced these methods with "capillary column GC methods", as the suggested methods.

<sup>6</sup>Practical Quantitation Limits (PQLs) are the lowest concentrations of analytes in ground waters that can be reliably determined within specified limits of precision and accuracy by the indicated methods under routine laboratory operating conditions. The PQLs listed are generally stated to one significant figure. CAUTION: The PQL values in many cases are based only on a general estimate for the method and not on a determination for individual compounds; PQLs are not a part of the regulation.

<sup>7</sup>Polychlorinated biphenyls (CAS RN 1336-36-3); this category contains congener chemicals, including constituents of Aroclor-1016 (CAS RN 12674-11-2), Aroclor-1221 (CAS RN 11104-28-2), Aroclor-1232 (CAS RN 11141-16-5), Aroclor-1242 (CAS RN 53489-21-9), Aroclor-1248 (CAS RN 12672-29-6), Aroclor-1254 (CAS RN 11097-69-1), and Aroclor-1260 (CAS RN 11098-82-5). The PQL shown is an average value for PCB congeners.

<sup>8</sup>This category contains congener chemicals, including tetrachlorodibenzo-p-dioxins (see also 2,3,7,8-TCDD), pentachlorodibenzo-p-dioxins, and hexachlorodibenzo-p-dioxins. The PQL shown is an average value for PCDD congeners.

<sup>9</sup>This category contains congener chemicals, including tetrachlorodibenzofurans, pentachlorodibenzofurans, and hexachlorodibenzofurans. The PQL shown is an average value for PCDF congeners.

[52 FR 25947, July 9, 1987, as amended at 62 FR 32462, June 13, 1997]

**PART 265—INTERIM STATUS STANDARDS FOR OWNERS AND OPERATORS OF HAZARDOUS WASTE TREATMENT, STORAGE, AND DISPOSAL FACILITIES**

**Subpart A—General**

Sec.

- 265.1 Purpose, scope, and applicability.
- 265.2—265.3 [Reserved]
- 265.4 Imminent hazard action.

**Subpart B—General Facility Standards**

- 265.10 Applicability.

- 265.11 Identification number.
- 265.12 Required notices.
- 265.13 General waste analysis.
- 265.14 Security.
- 265.15 General inspection requirements.
- 265.16 Personnel training.
- 265.17 General requirements for ignitable, reactive, or incompatible wastes.
- 265.18 Location standards.
- 265.19 Construction quality assurance program.

**Subpart C—Preparedness and Prevention**

- 265.30 Applicability.
- 265.31 Maintenance and operation of facility.









<p><b>SEND COMPLETED FORM TO:</b> The Appropriate State or Regional Office.</p>	<p><b>United States Environmental Protection Agency RCRA SUBTITLE C SITE IDENTIFICATION FORM</b></p>		
<p><b>1. Reason for Submittal</b></p> <p>MARK ALL BOX(ES) THAT APPLY</p>	<p><b>Reason for Submittal:</b></p> <p><input type="checkbox"/> To provide an Initial Notification (first time submitting site identification information / to obtain an EPA ID number for this location)</p> <p><input type="checkbox"/> To provide a Subsequent Notification (to update site identification information for this location)</p> <p><input type="checkbox"/> As a component of a First RCRA Hazardous Waste Part A Permit Application</p> <p><input type="checkbox"/> As a component of a Revised RCRA Hazardous Waste Part A Permit Application (Amendment # _____)</p> <p><input type="checkbox"/> As a component of the Hazardous Waste Report (If marked, see sub-bullet below)</p> <p><input type="checkbox"/> Site was a TSD facility and/or generator of &gt;1,000 kg of hazardous waste, &gt;1 kg of acute hazardous waste, or &gt;100 kg of acute hazardous waste spill cleanup in one or more months of the report year (or State equivalent LQG regulations)</p>		
<p><b>2. Site EPA ID Number</b></p>	<p>EPA ID Number <input type="text"/> <input type="text"/></p>		
<p><b>3. Site Name</b></p>	<p>Name: <input type="text"/></p>		
<p><b>4. Site Location Information</b></p>	<p>Street Address: <input type="text"/></p>		
	<p>City, Town, or Village: <input type="text"/></p>	<p>County: <input type="text"/></p>	
	<p>State: <input type="text"/></p>	<p>Country: <input type="text"/></p>	<p>Zip Code: <input type="text"/></p>
<p><b>5. Site Land Type</b></p>	<p><input type="checkbox"/> Private <input type="checkbox"/> County <input type="checkbox"/> District <input type="checkbox"/> Federal <input type="checkbox"/> Tribal <input type="checkbox"/> Municipal <input type="checkbox"/> State <input type="checkbox"/> Other</p>		
<p><b>6. NAICS Code(s) for the Site (at least 5-digit codes)</b></p>	<p>A. <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/></p>	<p>C. <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/></p>	
	<p>B. <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/></p>	<p>D. <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/></p>	
<p><b>7. Site Mailing Address</b></p>	<p>Street or P.O. Box: <input type="text"/></p>		
	<p>City, Town, or Village: <input type="text"/></p>		
	<p>State: <input type="text"/></p>	<p>Country: <input type="text"/></p>	<p>Zip Code: <input type="text"/></p>
<p><b>8. Site Contact Person</b></p>	<p>First Name: <input type="text"/></p>	<p>MI: <input type="text"/></p>	<p>Last: <input type="text"/></p>
	<p>Title: <input type="text"/></p>		
	<p>Street or P.O. Box: <input type="text"/></p>		
	<p>City, Town or Village: <input type="text"/></p>		
	<p>State: <input type="text"/></p>	<p>Country: <input type="text"/></p>	<p>Zip Code: <input type="text"/></p>
	<p>Email: <input type="text"/></p>	<p>Phone: <input type="text"/></p>	<p>Ext.: <input type="text"/></p>
<p><b>9. Legal Owner and Operator of the Site</b></p>	<p>A. Name of Site's Legal Owner: <input type="text"/></p>		<p>Date Became Owner: <input type="text"/></p>
	<p>Owner Type: <input type="checkbox"/> Private <input type="checkbox"/> County <input type="checkbox"/> District <input type="checkbox"/> Federal <input type="checkbox"/> Tribal <input type="checkbox"/> Municipal <input type="checkbox"/> State <input type="checkbox"/> Other</p>		
	<p>Street or P.O. Box: <input type="text"/></p>		
	<p>City, Town, or Village: <input type="text"/></p>		<p>Phone: <input type="text"/></p>
	<p>State: <input type="text"/></p>	<p>Country: <input type="text"/></p>	<p>Zip Code: <input type="text"/></p>
	<p>B. Name of Site's Operator: <input type="text"/></p>		<p>Date Became Operator: <input type="text"/></p>
<p>Operator Type: <input type="checkbox"/> Private <input type="checkbox"/> County <input type="checkbox"/> District <input type="checkbox"/> Federal <input type="checkbox"/> Tribal <input type="checkbox"/> Municipal <input type="checkbox"/> State <input type="checkbox"/> Other</p>			

**10. Type of Regulated Waste Activity (at your site)**  
 Mark "Yes" or "No" for all current activities (as of the date submitting the form); complete any additional boxes as instructed.

**A. Hazardous Waste Activities; Complete all parts 1-10.**

- Y  N  **1. Generator of Hazardous Waste**  
 If "Yes," mark only one of the following – a, b, or c.
- a. LQG: Generates, in any calendar month, 1,000 kg/mo (2,200 lbs/mo.) or more of hazardous waste; or Generates, in any calendar month, or accumulates at any time, more than 1 kg/mo (2.2 lbs/mo) of acute hazardous waste; or Generates, in any calendar month, or accumulates at any time, more than 100 kg/mo (220 lbs/mo) of acute hazardous spill cleanup material.
- b. SQG: 100 to 1,000 kg/mo (220 – 2,200 lbs/mo) of non-acute hazardous waste.
- c. CESQG: Less than 100 kg/mo (220 lbs/mo) of non-acute hazardous waste.

If "Yes" above, indicate other generator activities in 2-10.

- Y  N  **2. Short-Term Generator** (generate from a short-term or one-time event and not from on-going processes). If "Yes," provide an explanation in the Comments section.
- Y  N  **3. United States Importer of Hazardous Waste**
- Y  N  **4. Mixed Waste (hazardous and radioactive) Generator**

- Y  N  **5. Transporter of Hazardous Waste**  
 If "Yes," mark all that apply.
- a. Transporter
- b. Transfer Facility (at your site)
- Y  N  **6. Treater, Storer, or Disposer of Hazardous Waste** Note: A hazardous waste Part B permit is required for these activities.
- Y  N  **7. Recycler of Hazardous Waste**
- Y  N  **8. Exempt Boiler and/or Industrial Furnace**  
 If "Yes," mark all that apply.
- a. Small Quantity On-site Burner Exemption
- b. Smelting, Melting, and Refining Furnace Exemption
- Y  N  **9. Underground Injection Control**
- Y  N  **10. Receives Hazardous Waste from Off-site**

**B. Universal Waste Activities; Complete all parts 1-2.**

- Y  N  **1. Large Quantity Handler of Universal Waste** (you accumulate 5,000 kg or more) [refer to your State regulations to determine what is regulated]. Indicate types of universal waste managed at your site. If "Yes," mark all that apply.
- a. Batteries
- b. Pesticides
- c. Mercury containing equipment
- d. Lamps
- e. Other (specify) \_\_\_\_\_
- f. Other (specify) \_\_\_\_\_
- g. Other (specify) \_\_\_\_\_

- Y  N  **2. Destination Facility for Universal Waste**  
 Note: A hazardous waste permit may be required for this activity.

**C. Used Oil Activities; Complete all parts 1-4.**

- Y  N  **1. Used Oil Transporter**  
 If "Yes," mark all that apply.
- a. Transporter
- b. Transfer Facility (at your site)
- Y  N  **2. Used Oil Processor and/or Re-refiner**  
 If "Yes," mark all that apply.
- a. Processor
- b. Re-refiner
- Y  N  **3. Off-Specification Used Oil Burner**
- Y  N  **4. Used Oil Fuel Marketer**  
 If "Yes," mark all that apply.
- a. Marketer Who Directs Shipment of Off-Specification Used Oil to Off-Specification Used Oil Burner
- b. Marketer Who First Claims the Used Oil Meets the Specifications

**D. Eligible Academic Entities with Laboratories—Notification for opting into or withdrawing from managing laboratory hazardous wastes pursuant to 40 CFR Part 262 Subpart K**

❖ You can ONLY Opt into Subpart K if:

- you are at least one of the following: a college or university; a teaching hospital that is owned by or has a formal affiliation agreement with a college or university; or a non-profit research institute that is owned by or has a formal affiliation agreement with a college or university; AND
- you have checked with your State to determine if 40 CFR Part 262 Subpart K is effective in your state

Y  N  1. Opting into or currently operating under 40 CFR Part 262 Subpart K for the management of hazardous wastes in laboratories  
**See the Item-by-item instructions for definitions of types of eligible academic entities. Mark all that apply:**

- a. College or University
- b. Teaching Hospital that is owned by or has a formal written affiliation agreement with a college or university
- c. Non-profit Institute that is owned by or has a formal written affiliation agreement with a college or university

Y  N  2. Withdrawing from 40 CFR Part 262 Subpart K for the management of hazardous wastes in laboratories

**11. Description of Hazardous Waste**

**A. Waste Codes for Federally Regulated Hazardous Wastes.** Please list the waste codes of the Federal hazardous wastes handled at your site. List them in the order they are presented in the regulations (e.g., D001, D003, F007, U112). Use an additional page if more spaces are needed.


**B. Waste Codes for State-Regulated (i.e., non-Federal) Hazardous Wastes.** Please list the waste codes of the State-Regulated hazardous wastes handled at your site. List them in the order they are presented in the regulations. Use an additional page if more spaces are needed.




## ADDENDUM TO THE SITE IDENTIFICATION FORM: NOTIFICATION OF HAZARDOUS SECONDARY MATERIAL ACTIVITY



**ONLY fill out this form if:**

- ❖ You are located in a State that allows you to manage excluded hazardous secondary material (HSM) under 40 CFR 261.2(a)(2)(ii), 261.4(a)(23), (24), or (25) (or state equivalent). See <http://www.epa.gov/epawaste/hazard/dsw/statespf.htm> for a list of eligible states; **AND**
- ❖ You are or will be managing excluded HSM in compliance with 40 CFR 261.2(a)(2)(ii), 261.4(a)(23), (24), or (25) (or state equivalent) or you have stopped managing excluded HSM in compliance with the exclusion(s) and do not expect to manage any amount of excluded HSM under the exclusion(s) for at least one year. Do not include any information regarding your hazardous waste activities in this section.

**1. Indicate reason for notification. Include dates where requested.**

- Facility will begin managing excluded HSM as of \_\_\_\_\_ (mm/dd/yyyy).
- Facility is still managing excluded HSM/re-notifying as required by March 1 of each even-numbered year.
- Facility has stopped managing excluded HSM as of \_\_\_\_\_ (mm/dd/yyyy) and is notifying as required.

**2. Description of excluded HSM activity.** Please list the appropriate codes and quantities in **short tons** to describe your excluded HSM activity ONLY (do not include any information regarding your hazardous wastes). Use additional pages if more space is needed.

a. Facility code (answer using codes listed in the Code List section of the instructions)	b. Waste code(s) for HSM	c. Estimated short tons of excluded HSM to be managed annually	d. Actual short tons of excluded HSM that was managed during the most recent odd-numbered year	e. Land-based unit code (answer using codes listed in the Code List section of the instructions)

**3. Facility has financial assurance pursuant to 40 CFR 261.4(a)(24)(vi).** (Financial assurance is required for reclaimers and intermediate facilities managing excluded HSM under 40 CFR 261.4(a)(24) and (25))

Y  N  Does this facility have financial assurance pursuant to 40 CFR 261.4(a)(24)(vi)?

BEFORE COPYING FORM, ATTACH SITE IDENTIFICATION LABEL OR ENTER:

SITE NAME: \_\_\_\_\_

\_\_\_\_\_

EPA ID Number

**U.S. ENVIRONMENTAL PROTECTION AGENCY**

2015 Hazardous Waste Report

**GM FORM**

**WASTE GENERATION AND MANAGEMENT**

**Sec. 1** A. Waste description:

B. EPA hazardous waste code(s)

C. State hazardous waste code(s)

D. Source code

Management Method code for Source code G25

E. Form code

F. Quantity generated in 2015

UOM

Density

G. Waste minimization code

**Sec. 2** Was any of this waste that was generated at this facility treated, disposed, and/or recycled on site?

Yes (CONTINUE TO ON-SITE PROCESS SYSTEM 1)

No (SKIP TO SEC. 3)

ON-SITE PROCESS SYSTEM 1		ON-SITE PROCESS SYSTEM 2	
On-site Management Method code	Quantity treated, disposed, or recycled on site in 2015	On-site Management Method code	Quantity treated, disposed, or recycled on site in 2015
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

**Sec. 3** A. Was any of this waste shipped off site in 2015 for treatment, disposal, or recycling?

Yes (CONTINUE TO ITEM B)

No (FORM IS COMPLETE)

Site	B. EPA ID No. of facility to which waste was shipped	C. Off-site Management Method code shipped to	D. Total quantity shipped in 2015
Site 1	<input type="text"/>	<input type="text"/>	<input type="text"/>
Site 2	<input type="text"/>	<input type="text"/>	<input type="text"/>
Site 3	<input type="text"/>	<input type="text"/>	<input type="text"/>

Comments:



BEFORE COPYING FORM, ATTACH SITE IDENTIFICATION LABEL OR ENTER:

SITE NAME: \_\_\_\_\_

EPA ID Number 

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**U.S. ENVIRONMENTAL PROTECTION AGENCY**

2015 Hazardous Waste Report

**OI FORM**

**OFF-SITE IDENTIFICATION**

<b>Site 1</b>	A. EPA ID number of off-site installation or transporter <table border="1" style="display: inline-table; border-collapse: collapse;"><tr><td style="width: 15px; height: 15px;"></td><td style="width: 15px; height: 15px;"></td></tr></table>																					B. Name of off-site installation or transporter _____		
C. Handler type (MARK ALL THAT APPLY) <input type="checkbox"/> Generator <input type="checkbox"/> Transporter <input type="checkbox"/> Receiving facility		D. Address of off-site installation Street _____ City _____ State <table border="1" style="display: inline-table; border-collapse: collapse;"><tr><td style="width: 15px; height: 15px;"></td><td style="width: 15px; height: 15px;"></td></tr></table> Zip <table border="1" style="display: inline-table; border-collapse: collapse;"><tr><td style="width: 15px; height: 15px;"></td><td style="width: 15px; height: 15px;"></td></tr></table>																						
<b>Site 2</b>	A. EPA ID number of off-site installation or transporter <table border="1" style="display: inline-table; border-collapse: collapse;"><tr><td style="width: 15px; height: 15px;"></td><td style="width: 15px; height: 15px;"></td></tr></table>																					B. Name of off-site installation or transporter _____		
C. Handler type (MARK ALL THAT APPLY) <input type="checkbox"/> Generator <input type="checkbox"/> Transporter <input type="checkbox"/> Receiving facility		D. Address of off-site installation Street _____ City _____ State <table border="1" style="display: inline-table; border-collapse: collapse;"><tr><td style="width: 15px; height: 15px;"></td><td style="width: 15px; height: 15px;"></td></tr></table> Zip <table border="1" style="display: inline-table; border-collapse: collapse;"><tr><td style="width: 15px; height: 15px;"></td><td style="width: 15px; height: 15px;"></td></tr></table>																						
<b>Site 3</b>	A. EPA ID number of off-site installation or transporter <table border="1" style="display: inline-table; border-collapse: collapse;"><tr><td style="width: 15px; height: 15px;"></td><td style="width: 15px; height: 15px;"></td></tr></table>																					B. Name of off-site installation or transporter _____		
C. Handler type (MARK ALL THAT APPLY) <input type="checkbox"/> Generator <input type="checkbox"/> Transporter <input type="checkbox"/> Receiving facility		D. Address of off-site installation Street _____ City _____ State <table border="1" style="display: inline-table; border-collapse: collapse;"><tr><td style="width: 15px; height: 15px;"></td><td style="width: 15px; height: 15px;"></td></tr></table> Zip <table border="1" style="display: inline-table; border-collapse: collapse;"><tr><td style="width: 15px; height: 15px;"></td><td style="width: 15px; height: 15px;"></td></tr></table>																						
<b>Site 4</b>	A. EPA ID number of off-site installation or transporter <table border="1" style="display: inline-table; border-collapse: collapse;"><tr><td style="width: 15px; height: 15px;"></td><td style="width: 15px; height: 15px;"></td></tr></table>																					B. Name of off-site installation or transporter _____		
C. Handler type (MARK ALL THAT APPLY) <input type="checkbox"/> Generator <input type="checkbox"/> Transporter <input type="checkbox"/> Receiving facility		D. Address of off-site installation Street _____ City _____ State <table border="1" style="display: inline-table; border-collapse: collapse;"><tr><td style="width: 15px; height: 15px;"></td><td style="width: 15px; height: 15px;"></td></tr></table> Zip <table border="1" style="display: inline-table; border-collapse: collapse;"><tr><td style="width: 15px; height: 15px;"></td><td style="width: 15px; height: 15px;"></td></tr></table>																						

Comments: