



***Spill Prevention, Control, and  
Countermeasures Plan  
Hillsboro Airport (HIO)  
Hillsboro, Oregon***

**Prepared for:  
Port of Portland**

**April 20, 2020  
1745-02**

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## Facility Information Page

**Facility Name:** Hillsboro Airport (HIO)

**Facility Street Address:** Airport and Maintenance Facility:  
1040 NE 25th Avenue  
Hillsboro, OR 97125

**Facility Mailing Address:** PO Box 3529  
Portland, OR 97208

**Facility Phone Number:**  
All Hours: 503-460-4747 (PDX Comm Center)

**Owner Name:** Port of Portland

**Owner Address:** P.O. Box 3529  
Portland, OR 97208

**Operator Name:** Port of Portland

**Operator Address:** 1040 NE 25th Avenue  
Hillsboro, OR 97125

**Type of Facility:** Aviation

**Latitude/Longitude:** 45° 32' / 122° 57'

**River Drainage Basin:** Tualatin

**Nearest Surface Water Body:** Dawson Creek to the east and McKay  
Creek to the west.

**Distance:** <0.50 mile (approximate)

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# SPCC Plan Certification Page

## Management Approval

This Spill Prevention, Control, and Countermeasure Plan for HIO is fully supported by the management of the Port of Portland. The Port of Portland will implement this Plan and amend it as needed due to expansions, modifications, and improvements at HIO. In addition, the management of the Port of Portland commits the manpower, equipment, and materials required to expeditiously control and remove any quantity of oil discharged that may be harmful.

**Name:** Dan Pippenger  
Chief Operating Officer

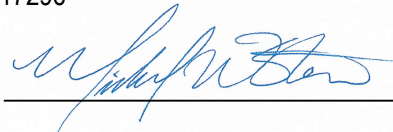
**Signature:** \_\_\_\_\_  
**Date:** \_\_\_\_\_

## Engineer Certification

The undersigned Registered Professional Engineer is familiar with the requirements of Part 112 of Title 40 of the Code of Federal Regulations (40 CFR part 112) and has visited and examined the facility, or has supervised examination of the facility by appropriately qualified personnel. The undersigned Registered Professional Engineer attests that this Spill Prevention, Control, and Countermeasure Plan has been prepared in accordance with good engineering practice, including consideration of applicable industry standards and the requirements of 40 CFR part 112; that procedures for required inspections and testing have been established; and that this Plan is adequate for the facility. [40 CFR 112.3(d)]

This certification in no way relieves the owner or operator of the facility of his/her duty to prepare and fully implement this SPCC Plan in accordance with the requirements of 40 CFR part 112. This Plan is valid only to the extent that the facility owner or operator maintains, tests, and inspects equipment, containment, and other devices as prescribed in this Plan.

**Certifying Engineer:** Michael W. Stevens, P.E.  
**State:** Oregon  
**Registration Number:** 17296

**Signature:**  \_\_\_\_\_

**Certification Date:** April 20, 2020



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**SPCC PLAN AMENDMENT LOG**

Date	Reviewer	Signature	Revisions

## **SPCC Cross-Reference Table**

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112.8(c)(4)	Corrosion Protection (N/A)	N/A
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112.8(c)(8)	Overfill Prevention System/Engineering Controls (Tank Sheets)	Appendix D
112.8(c)(9)	Effluent Treatment Facilities (N/A)	N/A
112.8(c)(10)	Visible Discharges (Appendix B; Spill Response Procedures)	Appendix B
112.8(c)(11)	Mobile and Portable Containers (Sections 2.3 and 2.4; Tank Sheets)	5; Appendix D
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## **1.0 Introduction**

### **1.1 Objectives and Scope of Plan**

This plan outlines the procedures, methods, and equipment used for management of potential oil spills associated with oil storage owned and operated by the Port of Portland (Port) at the Hillsboro Airport (HIO) to comply with U.S. Environmental Protection Agency (EPA) oil spill prevention, control, and countermeasures (SPCC) standards, and to comply with inspection, reporting, training, and record keeping requirements. HIO is subject to the regulations specified in 40 CFR 112 due to the oil storage capacity of aboveground storage tanks and containers located at the Maintenance Facility. The hierarchical objectives of the SPCC Plans are as follows:

- PREVENT spill from occurring.
- PREPARE for a potential spill.
- RESPOND quickly and appropriately if a spill does occur.

The Hazardous Material Spill Response Guidelines for the Hillsboro and Troutdale Airports have been developed by the Port to establish roles, responsibilities, and appropriate actions in the event of a spill or accidental release of petroleum products or hazardous materials. A copy Hillsboro Airport's Spill Response Procedures is provided in Appendix B and is incorporated into this SPCC Plan.

### **1.2 Plan Content and Format**

As required by the SPCC regulations, this Plan generally follows the format specified in 40 CFR 112.7. However, this Plan is designed to be "user friendly," easily implemented, and easily maintained. This Plan relies on "Tank/Area Data Sheets" that provide SPCC Plan compliance requirements and activities for each oil facility (tank, container, equipment or operation) at the facility. This approach allows HIO personnel to efficiently make Plan updates and to address program requirements for their particular area(s) of responsibility.

Section 2.0 of this Plan provides a description of the regulated oil facilities and the facility's general drainage characteristics. As required by 40 CFR 112.7(a)(1), Section 3.0 provides a discussion of HIO's conformance with the applicable SPCC regulations, but detailed technical and procedural information is referred to in the appendices.

This Plan has been developed in accordance with the revised SPCC rules issued by the EPA on November 5, 2009. The Plan was also developed taking into consideration the SPCC Guidance for Regional Inspectors dated August 2013.

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### 1.3 Plan Review and Revision

This SPCC Plan is to be amended whenever there is a change in facility design, construction, operation, or maintenance procedure that materially affects the potential for an oil spill. Examples of changes that may require amendment of the Plan include the following:

- commissioning or decommissioning tanks;
- replacement, reconstruction, or installation of piping systems;
- construction or demolition that might alter secondary containment structures; or
- revision of standard operating or maintenance procedures.

This SPCC Plan is to be amended within six months of the change and implemented within six months following preparation of the amendment.

In any case, this SPCC Plan will be reviewed and evaluated once every five years by the Spill Prevention Coordinator. The review will be documented. The SPCC Plan is to be amended within six months of the review, if required, and any changes are to be implemented within six months of the amendment.

All amendments to this SPCC Plan will be signed and certified by the owner/operator. All technical amendments to this SPCC Plan will be reviewed and certified by a Professional Engineer.

In addition to the administrative requirements above, the Port will submit the SPCC Plan with all amendments to the EPA Regional Administrator within 60 days if one of the following occurs.

1. A discharge of more than 1,000 gallons of an oil product into or upon navigable waters or adjoining shorelines in a single spill event.
2. A discharge of an oil product in harmful quantities (in violation of water quality standards or which have caused a sheen, film or discoloration on the surface of the waters) into or upon navigable waters or adjoining shorelines in two spill events reportable under Section 311(b) (5) of the Federal Water Pollution Control Act (FWPCA), known as the Clean Water Act, occurring within any 12-month period. The following information is required to be submitted:
  - Name of the facility;
  - Name(s) of the owner/operator of the facility;
  - Location of the facility;
  - Date and year of initial facility operation;
  - Maximum storage or handling capacity of the facility and normally daily throughput;
  - Description of the facility, including maps, flow diagrams, and topographical maps;



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- A complete copy of the SPCC Plan with all amendments;
  - The cause(s) of such spill, including a failure analysis of system or subsystem in which the failure occurred;
  - Material and quantity of such spill;
  - The corrective actions and/or countermeasures taken, including an adequate description of the equipment, repairs and/or replacements;
  - Additional preventive measures taken or contemplated to minimize the possibility of recurrence; and
  - Such other information as the EPA Regional Administrator may reasonably require pertinent to the SPCC Plan or spill.

#### **1.4 Location of SPCC Plan**

In accordance with 40 CFR 112.3(e), a complete copy of this SPCC Plan is maintained at the facility. Copies are available online at <https://www.portofportland.com/Environment/StormwaterManagement>, in the Hillsboro Airport Maintenance office, and the Environmental Operations Department office (at the Port of Portland Headquarters Building 7200 NE Airport Way, Portland, Oregon), and in the Portland International Airport Communication Center (attended 24 hours a day).

#### **1.5 Conformance with Applicable State and Local Requirements**

This SPCC Plan (including the Spill Response Plan) was written to conform with 40 CFR part 112 (SPCC) requirements as well as other local, state, and federal requirements. Oil storage containers are registered and permitted as appropriate based on local Fire Marshall requirements.

#### **1.6 Contracting and Expenditure Authority**

The Port of Portland Administrative Policy (Numbers 7.1.11 and 7.2.3) sets the procedures and responsibilities for appropriate disaster response and expenditure of Port assets. In the event of a spill of a hazardous substance (including oil and oil products), the following expenditure provision applies:

The highest ranking Port employee present or available during an emergency or a disaster is authorized to execute contracts in any reasonable amount to the extent the contracts are immediately necessary for the preservation of life, safety, or Port property. If the emergency so requires, work may be commenced under such contracts prior to the contract being reduced to writing, provided that a written contract is executed as soon as circumstances permit. Prior approval from the Port's emergency command center must be obtained before executing contracts necessary to allow the resumption of business operations, but not immediately necessary for the preservation of life, safety, or Port property.

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## **2.0 Facility Description**

The HIO facility comprises approximately 950 acres. The areas included in this SPCC Plan are limited to the vicinity of the Maintenance Facility, the control tower, and the administration building. Each of these areas is described below and facility maps are provided in Appendix A. Identification of the non-transportation-related oil facilities that are owned and operated by the Port were provided by Port personnel.

### **2.1 Maintenance Facility**

The HIO Maintenance Facility is located near the southwest corner of the airport at 1040 NE 25th Avenue. The facility consists of a fenced maintenance yard and one building that contains offices on the upper level and a shop on the lower level that is used to store and maintain equipment, metal and wood fabrication, and store petroleum and chemicals. The maintenance building has large roll-up doors in the front facing NE 25th Avenue, and a back door that opens out onto the maintenance yard.

Specific areas at the Maintenance Facility covered by this SPCC Plan include the following.

- Tank 37 – This tank is located in the yard behind the Maintenance Building. The tank is a double-walled 500-gallon aboveground storage tank (AST) containing diesel.
- Tank 41 – This tank is a portable unit used for transporting used oil (single-walled 250-gallon tank), and is stored empty in the Maintenance Building when not in active use.
- Tank 45 – This tank is located outside of the Maintenance Building to the northeast. The tank is a double-walled 280-gallon tank containing used oil. The tank is kept in a separate spill containment cradle.
- Tank 46 – This tank is located outside of the Maintenance Building to the northeast. The tank is a double-walled 280-gallon tank containing used oil. The tank is kept in a separate spill containment cradle.
- Tank 47 – This tank is located in the Maintenance Building. The tank is a double-walled 1,500-gallon tank containing used oil.
- Tank 48 – Located on service vehicle 17026 (generally parked within the Maintenance building) are two single-walled 52-gallon external fuel tanks (one each filled with gasoline and diesel), used for occasional fueling of maintenance equipment.
- Tank 50 – This tank is a 65-gallon hydraulic oil reservoir associated with the Terminal Building elevator.
- Tank 52 – This tank is a 194-gallon diesel fuel tank associated with the Control Tower backup power generator.

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- 55-gallon drums are stored vertically on the floor or horizontally on elevated racks in the Maintenance Building. Drums are used to store petroleum products, antifreeze, used oil and waste chemicals. No more than eight drums are stored at any one time.

Specific compliance requirements for these tanks are described in the Tank/Area Data Sheets located in Appendix D of this SPCC Plan.

A separate transport tank is also stored in the Maintenance facility, used for transporting used oil products to the main used oil tank (Used Oil Burner Tank) in the Maintenance building. The transport tank is never stored with more than incidental volumes of oil and is therefore not included in the facility tank inventory.

## **2.2 Oil-Filled Electrical Equipment**

The HIO facility includes oil-filled electrical equipment. Instead of providing secondary containment for qualified oil-filled operational equipment, SPCC rules allow an owner or operator to prepare an oil spill contingency plan and a written commitment of manpower, equipment, and materials to quickly control and remove discharged oil. Such a plan must include an inspection or monitoring program for the equipment to detect a failure and/or discharge. An individual impracticability determination for this equipment is not required. Equipment is eligible if the facility did not discharge from any oil-filled operational equipment (1) more than 1,000 U.S. gallons of oil in a single discharge to navigable waters, or (2) discharge more than 42 U.S. gallons of oil in each of two discharges to navigable waters, within any twelve-month period. The HIO facility meets these requirements and therefore the oil-filled equipment at the HIO facility is not subject to the sized secondary containment requirements. For reference, oil-filled electrical equipment at HIO includes one 85-gallon oil-filled regulator (non-PCB containing) located in the Runway 12-30 Regulator Vault.

The contingency spill plan covering this equipment is addressed by the Port's Spill Response Procedures plan included in Appendix B.

## **2.3 Mobile Tanks**

The Port operates one service truck (Truck ID 17026) at HIO that is outfitted with two 52-gallon fuel dispensing tanks (one gasoline and one diesel). The vehicle is stored in the Maintenance Building when not in use. A portable used oil transfer tank (Tank #41) is also stored in the HIO Maintenance Building when not in use (the tank is used to transfer used oil from other Port facilities to HIO for use in the used oil burner and is empty when stored).

Specific compliance requirements for these tanks are described in the Tank/Area Data Sheets located in Appendix D of this SPCC Plan.

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## 2.4 Operational Equipment

Aside from the oil-filled electrical equipment located in the vicinity of the Main Terminal building (discussed in Section 2.2), equipment-related oil storage around HIO includes an elevator hydraulic system in the terminal building, and a backup generator located north of the control tower. The elevator system includes a 65-gallon reservoir tank (for hydraulic oil) and is an integral part of the operating elevator hydraulics. The emergency generator includes a 194-gallon diesel storage tank that provides fuel for the associated emergency generator to maintain operation of the control tower in the event of a power outage.

Neither of these operational tanks have had a release in the previous three years (and have maximum capacities that are significantly less than 1,000 gallons) and therefore are qualified tanks. Specific compliance requirements for the oil-containing equipment are described in the associated Tank/Area Data Sheets located in Appendix D of this SPCC (specifically Tank #50 for the elevator reservoir and Tank #52 for the emergency generator).

## 2.5 Transfer Areas

The following bulk fuel or oil loading/unloading areas involving tank/tank truck transfers were identified as part of this SPCC Plan preparation:

- Unloading the 280-gallon used oil ASTs northeast of the Maintenance building (Tanks No. 45 and 46);
- Unloading the 1,500-gallon used oil AST in the Maintenance Building (Tank 47); and
- Loading the 500-gallon diesel AST outside of the Maintenance Facility (Tank No. 37)

Procedures for tank loading and unloading and vehicle refueling activities are located in Appendix C of this plan.

## 2.6 Facility Drainage

The HIO site drainage maps are included in Appendix A. Area specific drainage control features are described in the Tank/Area Data Sheets located in Appendix D.

HIO site is underlain by fluvial and lacustrine sediment of Willamette Silt to a depth of approximately 75 feet, the Troutdale Formation from 75 feet to 1,400 feet, and Columbia River Basalt below 1,400 feet. Willamette Silt is primarily made up of brown, thinly bedded silt and very fine sand with thin, discontinuous layers of clay and sand.

The HIO site is located in the Tualatin Basin. Within the basin, the Tualatin River, which is the main drainage course, drops only 20 feet in 45 miles. Drainage in the basin is generally very poor and flooding is common

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on many of the tributaries. The groundwater table in the Hillsboro area fluctuates from depths of less than 10 feet below ground surface in the winter, to 15 to 30 feet below ground surface in the summer to fall months.

The HIO facility consists of 6 drainage areas described as follows.

**Drainage Area 1.** Drainage Area 1, as shown on Figure C-7 (in Appendix A), drains a portion of runway 12/30, and its respective taxiways, one of Hillsboro Aviation's buildings, and Hillsboro Aviation's tie-down area. Storm water runoff from this basin discharges via a 21-inch pipe into a 60-inch pipe under Cornell Road approximately 100 feet west of the NE Brookwood Parkway intersection. The water flows east under Cornell Road to Dawson Creek. Dawson Creek discharges to the Tualatin River.

**Drainage Area 2.** Drainage Area 2, as shown on Figure C-7, drains runway 2/20 and a portion of runway 12/30, their respective parallel taxiways, the northeast hangars and the Nike hangar. The major outfall from Drainage Area 2 discharges via a 30-inch pipe to a pipe under NE Brookwood Parkway, approximately 1,200 feet north of the Cornell Road intersection. The storm water flows south to Cornell Road, then joins the 60-inch pipe to flow east to Dawson Creek then to the Tualatin River.

**Drainage Area 3.** Drainage Area 3, as shown on Figure C-10, drains storm water from the terminal building, the businesses located along NE Cornell Road, and aircraft tie downs. Drainage Area 3 discharges via a 24-inch pipe into a 60-inch pipe under Cornell Road approximately 500 feet east of the intersection of NE 34th Avenue. The storm water then flows east under Cornell Road to Dawson Creek and then to the Tualatin River.

**Drainage Area 4.** Drainage Area 4, as shown on Figure C-6, drains hangars and surrounding areas including associated ramps and tie-down areas, the FAA control tower, and some non-Port property. Drainage Area 4 discharges via a 36-inch pipe into a pipe under NE 25th Avenue approximately 500 feet north of the Global Aviation Facility and 3,000 feet south of the NW Evergreen Parkway intersection. The storm water flows west under NE 25th Avenue to McKay Creek then to the Tualatin River.

**Drainage Area 5.** Drainage Area 5, as shown on Figure C-5, drains the northeast end of Runway 12/30 and the undeveloped area adjacent to Evergreen Street and NW 268th Avenue. There are no industrial activities in this basin. The drainage discharges via a 24-inch pipe and ditch to an unnamed tributary to McKay Creek approximately 500 feet east of where the tributary crosses NE 25th Avenue. McKay Creek discharges into the Tualatin River. Sub-basin 5A, which drains a portion of Taxiway A, also flows to McKay Creek via a 24-inch pipe and ditch located on NE 25th Avenue.

**Drainage Area 6.** Drainage area 6, as shown on Figure C-11, drains the Port maintenance compound. It discharges via two 4 inch pipes into a 36-inch pipe under NE 25th Avenue approximately 500 feet north of the intersection with Cornell Road. The storm water flows south to a 54-inch pipe under Cornell Road where it

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then heads east under Cornell Road to Dawson Creek (transitioning to a 60-inch pipe). Dawson Creek discharges to the Tualatin River.

HIO is not located within a 100-year flood plain nor is any part of the site subject to flooding; therefore, no associated protective controls have been put in place.

## **3.0 Plan Requirements and Activities**

### **3.1 Fault Analysis**

As part of this SPCC Plan preparation, oil-containing facilities were evaluated for their reasonable potential for failure. A description of this fault analysis is included for each oil facility as provided in the Tank/Area Data Sheets located in Appendix D. The facility also involves transfer operations as identified in Section 2.5; however, there are no loading racks present on the facility. The following fault analysis and containment strategy is appropriate for transfer operations.

Transfer operations occur over asphalt paved areas or with connection points inside concrete berms away from storm drains or water course. A release during a load/unload procedure can be characterized as follows.

- Truck loading rate: 150 gallons per minute (gpm).
- The reasonable expected source of a release is a ruptured hose connection.
- Because the transfer operations is supervised by an attendant, the reasonably expected time elapsed to identify the release is 30 seconds.
- The maximum expected volume of discharge would be  $150 \text{ gpm} \times 0.5 \text{ min} = 75 \text{ gallons}$ .

Secondary containment for load/unload operations occurring over paved asphalt areas include placing properly designed storm drain covers over nearby storm drains. The location of storm drains can be identified in the field and on the facility drawings located in Appendix A. Further response to a spill in these areas includes the deployment of the General Aviation Airport Spill Response Procedures provided in Appendix B. A Tank Loading and Unloading Procedure and a Vehicle Refueling Procedure is Provided in Appendix C.

### **3.2 Containment**

Oil storage at HIO includes containers and bulk storage tanks. As such, these units are subject to the general containment system requirements of 40 CFR Part 112.7(c) and the more specific secondary containment requirements of 40 CFR 112.8(c). The containment strategy for each regulated oil storage unit identified in this Plan is described on the Tank/Area Data Sheets located in Appendix D. Oil-filled equipment at the HIO facility is not subject to the sized secondary containment requirements (though is still subject to the general containment system requirements, as discussed in Section 2.2).

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### 3.3 Brittle Failure Analysis

All HIO bulk storage containers are shop-built (no field-erected tanks) and therefore no brittle fracture evaluation is required.

### 3.4 Inspections and Testing

The HIO facility includes shop-built aboveground tanks and portable containers which pose a minimal risk of internal corrosion and are not in contact with soil. As such, the HIO facility will perform monthly visual inspections in lieu of integrity testing per the Steel Tank Institutes SP001 Standard for Inspection of Aboveground Storage Tanks, Third Edition Issued July 2005. Pursuant to the SP001 Standard, the tanks and containers at the HIO facility are classified Category 1 ASTs or portable containers and qualify for periodic owner-performed inspections. The SP001 inspection checklist items and frequency are summarized below.

#### Monthly Inspection Checklist Items:

- Tank Containment
- Leak Detection
- Tank Attachments and Appurtenances

#### Other Conditions Annual Inspection Checklist Items:

- Tank Containment
- Tank Foundation and Supports
- Cathodic Protection
- Tank External Coating
- Tank Shell/Heads
- Tank Manways, Piping, and Equipment
- Tank Roof
- Insulated Tanks
- Level and Overfill Prevention
- Electrical Equipment Portable Container Monthly Checklist:
- Containment/Storage Area
- Leak Detection
- Container

Any leakage from the primary tank chambers would be detected through monitoring of the interstitial space performed on a monthly basis. Any leakage from the secondary shell would be detected visually during scheduled visual inspections by facility personnel.

Storage drums are elevated on spill pallets and have all sides visible, and any leak would be readily detected by facility personnel (drums are also stored within the Maintenance building, which provides additional

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containment of any spilled oil products). Corrosion poses minimal risk of failure since drums are single-use and remain on site for a relatively short period of time (less than one year). This is in accordance with accepted industry practice for drum storage and provides an effective means of verifying container integrity, as noted by EPA in the preamble to the SPCC rule at 67 FR 47120.

### **3.5 Spill Response**

Spill response procedures have been developed and implemented at the HIO facility. The procedures are documented in the General Aviation Airport Spill Response Procedures. A copy of these procedures is provided in Appendix B.

### **3.6 Recordkeeping**

All records generated with this plan (spill notifications, inspection worksheets, integrity testing results, repair records, and training records) are maintained for a minimum of three years. Spill response records are created and stored in Veoci, which is a cloud-based platform for emergency management. These records are filed in the SPCC records or in the facility operating records. A copy of this SPCC Plan is kept the Hillsboro Airport Maintenance office, the Aviation Environmental and Safety Department office, and in the Portland International Airport Communication Center.

### **3.7 Training**

Training is required for all oil handling employees. These personnel at the facility will be trained in:

- The laws and regulations regarding spills, releases, and pollution control;
- The contents of the SPCC Plan;
- The operation and maintenance of equipment to prevent discharges;
- General facility operations;
- Known discharges or failures and malfunctioning components; and
- Recently developed precautionary measures.

Spill prevention and response training will be conducted at least annually. Informal briefings will be held periodically through the year to update employees on changes in the regulations, laws, or in-house procedures. Training records will be maintained for three years.

### **3.8 Security**

To prevent a spill or release from being caused by accidental or unknown entry or vandalism, several security measures have been taken as noted below.



- 
- HIO is fully fenced, and entrance security controlled.
  - Adequate lighting for the detection of spills by both facility personnel and the general public.
  - Sufficient lighting and security are provided throughout the facility to allow for spill detection and the prevention and discovery of vandalism.
  - Locking of direct outward flow valves in the closed position when non-operating or in standby.
  - Above-ground storage tanks and related structures located in regular traffic areas are protected from potential vehicle contact with bollards or other barriers.

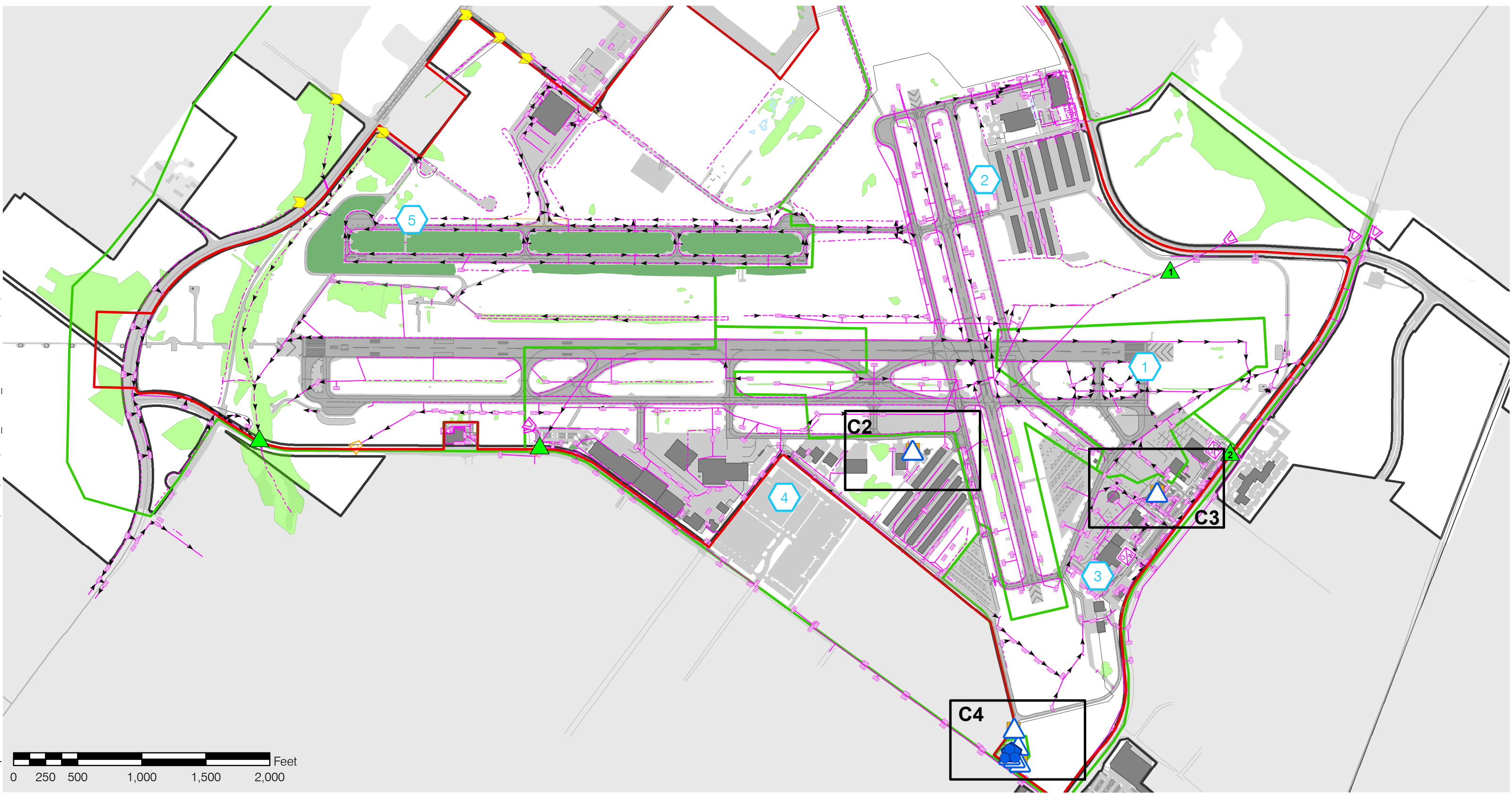
Area-specific security measures are identified in the Tank/Area Data Sheets located in Appendix D.

## ***Appendix A***

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### **Facility Maps**

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<b>PORT OWNED TANKS</b>	HIO POINT OF RUNON	WETLAND	12" UNVERIFIED PART OF SYSTEM	OUTFALL
ABOVE GROUND STORAGE TANK	STORM BASIN ID	IMPERVIOUS SURFACE	CENTERLINE OF DITCH	FLOW VALVE
MOBILE TANK	STORM BASIN BOUNDARY	VEGETATED SWALE	SAND FILTER	MANHOLE & WATER QUALITY MANHOLE
55 GAL. DRUM STORAGE	1200-Z PERMIT BOUNDARY	STORMWATER INFRASTRUCTURE	CATCH BASIN	VAULT & OIL / WATER SEPARATOR VAULT
SPILL KIT	PORT PROPERTY BOUNDARY	SUBTERRANEAN DRAINAGE (SUBDRAIN)		

**STORM POLLUTION CONTROL & COUNTERMEASURE MAP**  
HILLSBORO AIRPORT

**PORT OF PORTLAND**  
HILLSBORO, OREGON

SUBMITTED BY <u>DANELLE PETERSON</u>	DRAWING NO. HIO 2019-3093 1/4 (C1)
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**PORT OWNED TANKS**

- ABOVE GROUND STORAGE TANK
- MOBILE TANK
- 55 GAL. DRUM STORAGE
- SPILL KIT
- MONITORING POINT
- HIO POINT OF RUNON

- STORM BASIN ID
- STORM BASIN BOUNDARY
- 1200-Z PERMIT BOUNDARY
- PORT PROPERTY BOUNDARY
- WETLAND
- VEGETATED SWALE
- IMPERVIOUS SURFACE

- STORMWATER INFRASTRUCTURE
- SUBTERRANEAN DRAINAGE (SUBDRAIN)
- 
- 
- CENTERLINE OF DITCH
- SAND FILTER
- CATCH BASIN

- OUTFALL
- FLOW VALVE
- MANHOLE & WATER QUALITY MANHOLE
- VAULT & OIL / WATER SEPARATOR VAULT

Tank ID	Tank Contents	Tank Capacity (Gallons)
HIO-0037	Diesel	500
HIO-0041	Used Oil	250
HIO-0045	Used Oil	280
HIO-0046	Used Oil	280
HIO-0047	Used Oil	1500
HIO-0048	Mobile Tank: Gasoline, Diesel	100
HIO-0051	55-Gallon Drum Storage: Greases, Oils (Up to 8 drums)	440
HIO-0050	Hydraulic Fluid	65
HIO-0052	Diesel	194

**STORM POLLUTION CONTROL & COUNTERMEASURE MAP**

HILLSBORO AIRPORT

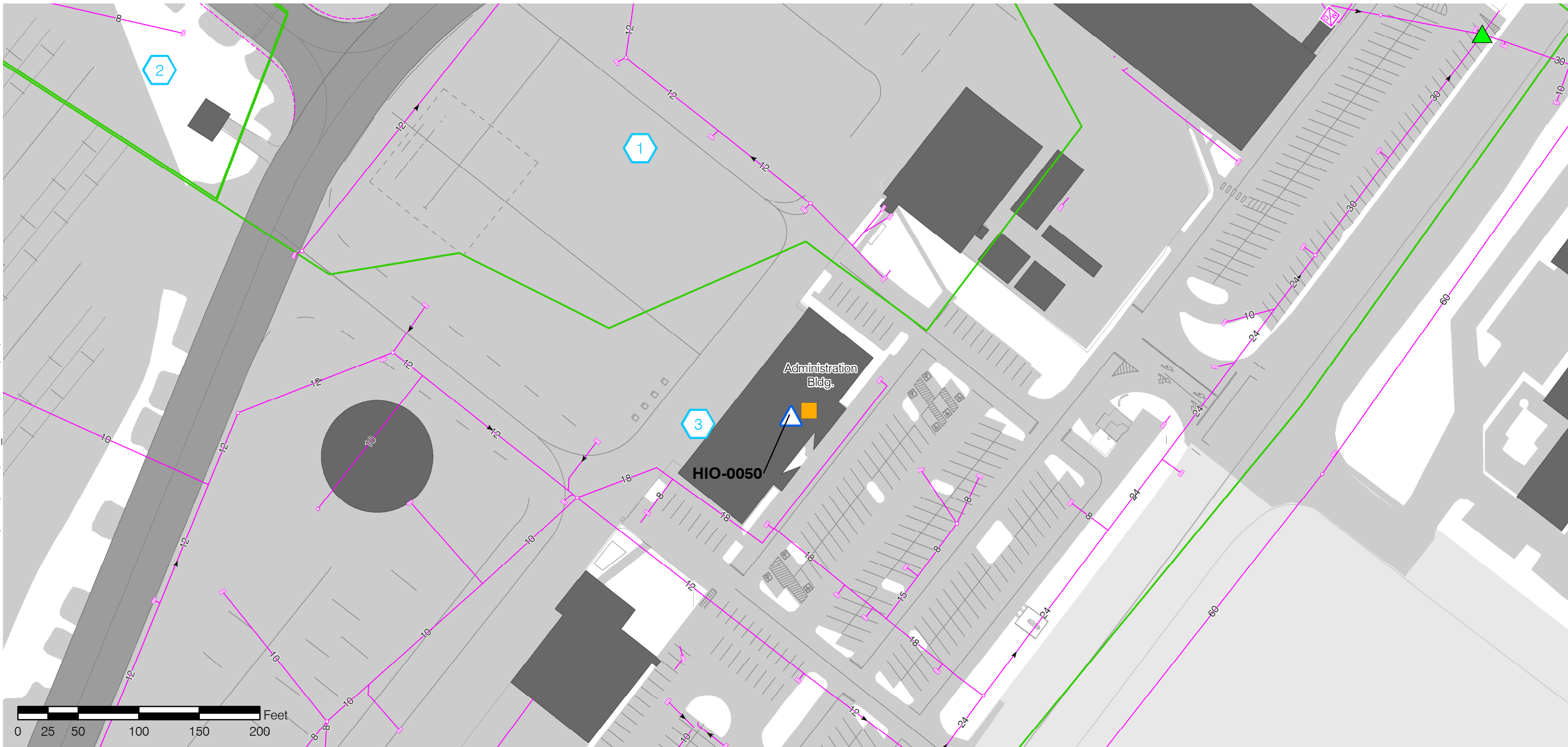


**PORT OF PORTLAND**  
HILLSBORO, OREGON

SUBMITTED BY  
**DANELLE PETERSON**

DRAWING NO.  
HIO 2019-3093 2/4 (C2)





**PORT OWNED TANKS**

- ABOVE GROUND STORAGE TANK
- MOBILE TANK
- 55 GAL. DRUM STORAGE
- SPILL KIT
- MONITORING POINT
- HIO POINT OF RUNON

- STORM BASIN ID
- STORM BASIN BOUNDARY
- 1200-Z PERMIT BOUNDARY
- PORT PROPERTY BOUNDARY
- WETLAND
- VEGETATED SWALE
- IMPERVIOUS SURFACE

- STORMWATER INFRASTRUCTURE
- SUBTERRANEAN DRAINAGE (SUBDRAIN)
- 12" VERIFIED PART OF SYSTEM
- 12" UNVERIFIED PART OF SYSTEM
- CENTERLINE OF DITCH
- SAND FILTER
- CATCH BASIN

- OUTFALL
- FLOW VALVE
- MANHOLE & WATER QUALITY MANHOLE
- VAULT & OIL / WATER SEPARATOR VAULT

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**STORM POLLUTION CONTROL & COUNTERMEASURE MAP**  
HILLSBORO AIRPORT



SUBMITTED BY: DANELLE PETERSON      DRAWING NO.: HIO 2019-3093      3/4 (C3)

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- PORT OWNED TANKS**
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**STORM POLLUTION CONTROL & COUNTERMEASURE MAP**  
HILLSBORO AIRPORT

**PORT OF PORTLAND**  
HILLSBORO, OREGON

SUBMITTED BY <b>DANELLE PETERSON</b>	DRAWING NO. HIO 2019-3093 4/4 (C4)
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***Appendix B***

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**Hillsboro Airport Spill Response Procedures**



**PORT OF PORTLAND**

**GENERAL AVIATION  
HILLSBORO AIRPORT**

**SPILL RESPONSE PROCEDURES**

*(Updated April 16, 2020)*

Approved by  \_\_\_\_\_

**Stan Jones, Mixed Media Senior Manager  
Environmental Department  
Port of Portland**

Date April 16, 2020



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## FIGURES

**Figure 1: Spill Response Procedures Diagram**

## APPENDICES

**Appendix A: Hillsboro Airport (HIO) Site and Drainage Plan**

**Appendix B: Resource Telephone List**

**Appendix C: 40 CFR Part 117.3 Reportable Quantities of Hazardous Substances**

REVISION HISTORY

<b>GENERAL AVIATION SPILL RESPONSE PROCEDURES</b>	
09-20-2007	Version prior to 2012 update
03-09-2012	Updated Incident Command responsibilities and associated training requirements (Environmental will no longer be delegated this responsibility); updated key contact info./numbers; updated related flowcharts for consistency with current work instructions. Updated drainage maps. Incorporated labeling requirement reference language from the updated Stormwater General Permit requirements.
05-08-2012	Minor correction – no signature update needed. Added HIO Site Maps to Appendix A.
11-26-2019	Updated Figure 1, Aviation Spill Response Flowchart for PDX and GA. Removed the old Environmental Ops pager number. Updated Appendix A and B with new Site maps. Added references to Veoci, the electronic system to complete spill response reports. Updated Appendix D Resource Telephone List.
04-16-2020	Separated HIO and TTD Spill Response Procedures from the GA procedures. Updated contact list.

## 1.0 POLICY STATEMENT

The Port of Portland (Port) will follow a standard set of procedures to quickly and efficiently respond to spills of hazardous and non-hazardous materials at the Port's General Aviation (GA) airports. Although the procedures in this plan are applicable to both the Hillsboro Airport (HIO) and the Troutdale Airport (TTD), this plan includes details specific to responding to spills at the HIO.

The Port's principal goals in establishing these procedures are to ensure that the public, Port employees, tenants, and contractors (including those responding to spills) are protected from undue exposure to these materials; to protect the environment that may otherwise be impacted by these spills; to protect property; and to minimize operational disruptions caused by spills. This plan was developed to be consistent with the Port's Environmental Management System and safety procedures. It is the duty of the party responsible for the spill to perform appropriate cleanup and reporting. In the event that the responsible party is unwilling or unable to clean up the spill, the Port will arrange for the cleanup of the spill and the responsible party will be billed for the cleanup cost.

**In the event of a spill, contact the PDX Communications Center  
Telephone No. 503-460-4000**

## 2.0 INTRODUCTION

In the course of doing business at GA airports there is a potential for spills and accidental release of hazardous materials within the airport boundaries. The following Spill Response Procedures (SRPs) have been developed for Hillsboro Airport to deal with these incidents. The SRPs detail the following:

- Roles, responsibilities, communication, and reporting procedures;
- Labeling requirements;
- Spill response procedures;
- Spill cleanup, removal, and disposal procedures;
- Training requirements; and
- Equipment.

### *2.1 Background/History*

The Occupational Safety and Health Administration (OSHA) definitions of an emergency response and incidental releases under HAZWOPER (Hazardous Waste Operations and Emergency Response) are as follows:

- **“Emergency response”** or **“responding to emergencies”** means a response effort by employees from outside the immediate release area or by other designated responders (i.e., mutual aid groups, local fire departments) to an occurrence that results, or is likely to result, in an uncontrolled release of hazardous materials.
- **“Responses to incidental releases”** means the response to a hazardous substance release where the substance can be absorbed, neutralized, or otherwise controlled at the time of release by employees in the immediate release area, or by maintenance personnel *are not considered to be emergency responses* within the scope of this standard. Responses to releases of hazardous substances where there is *no potential safety or health hazard* (i.e., fire, explosion, or chemical exposure) are not considered to be emergency responses.

Other background information that plays a key role in the history of spill response at GA airports includes:

- GA airports are multi-employer work sites and each individual employer is the Responsible Party (RP) in the event that his/her product is spilled/released or if his/her employee spills/releases a material.
- The most common materials spilled/released at GA airports are vehicle fluids, fuels, and sewage.
- Tenants and construction contractors account for the majority of the spills/releases that occur at GA airports.
- The Port Environmental department is responsible for ensuring agency notification by tenants, construction contractors, ground service companies, and the Port, and for the oversight and containment of spills/releases that may impact waterways and out-falls. The Port is also responsible for making sure spills are cleaned up and maintaining records for emergency spills. Local fire departments or emergency responders may provide initial incident command and control for spills/releases.

## *2.2 Geographic Jurisdiction of These Procedures*

- These SRPs apply to spills within the perimeter of the GA airport's facility fence, as well as Port property outside the fence adjacent to any of the Port's general aviation airports.

## 3.0 PERSONNEL ROLES, LINES OF AUTHORITY, AND COMMUNICATIONS

### *3.1 PDX Communications Center*

- Serves as initial Port point of contact for receiving reports of Emergency/Hazardous Material and fuel spills, or for Non-hazardous/Incidental Spills requiring direction or assistance at GA airports; and
- Triage of all calls and contact with local emergency responders (9-1-1), Port Environmental department, GA Operations and Maintenance, and/or RP (tenant or contractor), as appropriate for response and cleanup.

### *3.2 Port Environmental Department*

- Develop, maintain, and review the GA airport Spill Response Program;
- Maintain Environmental staff for response to Hazardous Material Spills;
- Maintain required records for Emergency/Hazardous Material Spills;
- Serve as liaison to regulatory agencies;
- Prepare reports and records as required by regulatory agencies;
- Arrange for appropriate emergency/hazardous material spill response training for Port employees;
- Provide guidance to tenants and contractors for spill response and cleanup when necessary; and
- Contact Emergency Response Contractors as needed.

### *3.3 General Aviation Maintenance*

- Contact the PDX Communications Center when an Emergency/Hazardous Material Spill is discovered, or when direction or assistance is required on a Non-emergency/Incidental Spill;
- Maintain and train the GA maintenance staff for response to Non-emergency/Incidental Spills and/or Emergency/Hazardous Material Spills that impact operations;

- Clean up Non-emergency/Incidental Spills and/or Emergency/Hazardous Material Spills within the scope of training;
- Notify Port Environmental department and/or Emergency Response Contractors, as appropriate;
- Assist in spill equipment and supply stocking/restocking and maintenance; and
- Complete and maintain appropriate records.

### *3.4 General Aviation Operations*

- Contact the PDX Communications Center when an Emergency/Hazardous Material Spill is discovered, or when direction or assistance is required on a Non-emergency/Incidental Spill;
- Maintain spill response training for Operations personnel;
- Assist in cleanup of Non-emergency/Incidental Spills and/or Emergency/Hazardous Material Spills as directed by the Incident Commander and in accordance with equipment, training, and materials (when available);
- Notify Port Environmental department and/or Emergency Response Contractors, as appropriate; and
- Oversee Port/tenant/RP cleanups, as appropriate.

### *3.5 GA Department Managers, Supervisors, Superintendents, Leads, and Employees*

- Ensure all containers are clearly and properly labeled in order to support appropriate spill response (refer to the Port-wide Labeling Work Instruction for additional detail);
- Contact the PDX Communications Center when an Emergency/Hazardous Material Spill is discovered, or when direction or assistance is required on a Non-emergency/Incidental Spill;
- Maintain Hicom and Spill Response training for designated staff; and
- Clean up or oversee clean-up of incidental spills in their area, as appropriate.

### *3.6 GA Tenants, Construction Contractors, and Service Providers*

- Ensure all containers are clearly and properly labeled in order to support appropriate spill response (refer to the Port-wide Labeling Work Instruction for additional detail);
- Contact the PDX Communications Center when an Emergency/Hazardous Material Spill is discovered, or when direction or assistance is required on a Non-emergency/Incidental Spill;
- Contain, clean up, and dispose of all Emergency/Hazardous Material and Non-emergency/Incidental Spills that they cause;
- Train personnel in accordance with HazCom requirements and the GA airport Spill Response Procedures;
- Maintain appropriate cleanup materials and equipment;
- Maintain records of spill response actions; and
- Report all regulated spills to the appropriate regulatory agencies and to the Port Environmental department.

### *3.7 Emergency Response Contractors*

- Provide environmental cleanup services when requested by General Aviation Operations and Maintenance, Port Environmental department, or the PDX Communications Center; and
- Maintain a response crew with security access badges and appropriate training.

## 4.0 SPILL RESPONSE PROCEDURES

The GA airport Spill Response Procedures are broken into two levels of response:

- Non-emergency/Incidental Spills, and
- Emergency/Hazardous Material Spills.

### *4.1 Non-emergency / Incidental Spills*

Most spills at GA airports are Non-emergency/Incidental Spills. These spills do not require a HAZMAT response and meet the OSHA definition in the 29 CFR 1910.120 Hazardous Waste Operations and Emergency Response standard as follows:

“Responses to incidental releases of hazardous substances where the substance can be absorbed, neutralized, or otherwise controlled at the time of release by employees in the immediate release area, or by maintenance personnel are not considered to be emergency responses within the scope of this standard.

Responses to releases of hazardous substances where there is no potential safety or health hazard (i.e., fire, explosion, or chemical exposure) are not considered to be emergency responses.”

Port contractors, tenants, maintenance or operations personnel will respond to, contain, and clean up Non-emergency/Incidental Spills. Tenants, construction contractors, and service providers are responsible for the cleanup of any spills they cause or discover in their area. Port Emergency Response Contractors will clean up Non-emergency/Incidental Spills when so directed.

Examples of Non-emergency/Incidental Spills include:

- Non-hazardous materials;
- Vehicle fluids (oil, radiator fluid, gasoline, diesel, brake fluid, etc.) spill that can be contained by employees in immediate area;
- Jet fuel spills that can be contained by employees in the immediate area; and
- Biohazard/sewage spills that can be contained by employees in the immediate area.

#### *4.2 Emergency/Hazardous Material Spills*

Emergency/Hazardous Material Spills are spills that require a coordinated response from the local emergency responders and/or the Port Environmental department. These spills include hazardous materials, which present a potential safety or health hazard (i.e., fire, explosion, or chemical exposure), or a spill that adversely impacts operations or may enter the waterway.

Examples of Emergency/Hazardous Material Spills include:

- Hazardous or Non-hazardous Material Spills, which significantly impact airfield operations or vehicle roadways (closing airfield pavements, require the shutting down of vehicle traffic lanes or restrict access to essential services);
- Hazardous materials that present safety or health hazards (fire, explosion, chemical exposure); and
- Uncontained fuel spills that present a fire hazard or that may impact waterways.

#### *4.3 Implementation of Spill Procedures*

The GA airport Spill Response Procedures will be implemented in the event of any release or spill. The type of spill (Non-emergency/Incidental or



Emergency/Hazardous Material) as detailed in this procedure will determine the response to the release.

#### *4.4 Judgment and Control Criteria for Spills and Emergency Response*

Non-emergency/Incidental Spills will be cleaned up by the RP. In the event that the RP is unwilling or unable to clean up the spill, the Port will arrange for cleanup of the spill and the RP will be responsible for the cleanup cost.

The local Emergency Responders/ Fire Department will be contacted and will take initial control of all Emergency/Hazardous Material Spills, establish an Incident Command structure, and determine if additional contract cleanup resources are required. Port Environmental department in consultation with the local emergency responder/Incident Commander, will determine if the Port's emergency response contractor be dispatched to address the incident.

#### *4.5 Containment, Cleanup, and Removal/Disposal*

Containment, cleanup, and removal/disposal of spills that occur in the Geographical Jurisdiction of These Procedures per Section 2.2, will be executed and/or administered by the RP, with possible oversight by the Port Environmental department, or operations personnel.

Tenants, construction contractors, and service providers will be charged for the damage their spills cause to property (e.g., asphalt damage from fuel spills). They will also be charged for cleanup operations conducted on their behalf by the Port.

**Table 1 Emergency and Non-Emergency Spill Chart**

Non-emergency/Incidental Spills	Emergency/Hazardous Material Spills
1. Spill occurs – identified as Non-emergency/Incidental.	1. Spill occurs – identified as Emergency/Hazardous Material.
2. Responsible Party (RP) cleans up spill.	2. Person discovering the spill contacts the PDX Communications Center, <b>Phone No. 503-460-4000</b> to triage the event <b>and</b> calls the local emergency response center Phone No. 9-1-1.
3. If the RP cannot clean up the spill, they will contact the PDX Communications Center <b>Phone No. 503-460-4000</b> , which will then notify other Port departments as appropriate for cleanup oversight.	3. The PDX Communications Center notifies the Port Environmental department, GA management, or other departments, as appropriate.
4. If Port cleanup/containment materials are used, the RP notifies Port General Aviation Maintenance. General Aviation Maintenance notifies Port Environmental department for their replacement	4. Local emergency responders respond to spill and determine type and status of spill and will act as the Incident Commander. Port Environmental department determine, in consultation with the local emergency responder/Incident Commander, if the Port’s emergency response contractor be dispatched to address the incident.
5. RP maintains appropriate spill incident records, and notifies regulatory agencies, as appropriate.	5. Incident Commander determines if additional support or resources are needed.
	6. Spill is cleaned up with local fire department, Port Environmental department, Port Operations, or City oversight.
	7. The Incident Commander, Port and/or RP maintains appropriate records and reporting.

## 5.0 TRAINING

### *5.1 Hazard Communication/Awareness Training - Non-emergency/Incidental Spill*

Appropriate Port personnel, tenants, construction contractors, and service providers will receive Hazard Communication training in accordance with 29 CFR 1910.1200. They will also receive basic awareness training on the GA airport Spill Response Procedures. Personnel with this training can respond to and clean up any Non-emergency/Incidental Spill.

### *5.2 Emergency/Hazardous Materials Spill Response Training*

The Port Environmental Department will have training that meets the requirements of 29 CFR 1910.120 (q) for Hazardous Materials Awareness and Operations.

Incident Commanders must have appropriate Incident Command Training and 24- or 40-hour HAZWOPER training.

### *5.3 40-Hour HAZWOPER*

PDX Emergency Response Contractors who conduct remediation or final cleanup of Emergency/Hazardous Material Spills at GA airports must have 40-hour HAZWOPER training meeting the requirements of 29 CFR 1910.120 (e).

## 6.0 EQUIPMENT

### *6.1 Port Equipment*

GA Maintenance and Port Environmental department will cooperatively purchase, maintain, and restock appropriate spill cleanup and containment equipment. This equipment will include absorbent materials and a limited amount of PPE (boot covers, gloves, and disposable coveralls). The cleanup kits will be sited at secure locations for access by Port personnel and Emergency Response Contractors. PDX also maintains a Spill Response Mobile Unit. This unit is located at the PDX Maintenance facility and can be mobilized to GA airports in the event of a spill.

### *6.2 Non-Port Equipment*

Tenants, construction contractors, and service providers are responsible for securing and maintaining the appropriate equipment for responding to and cleaning up spills they cause. For larger spills, they may depend on local cleanup contractors.

## 7.0 EMERGENCY RESPONSE CONTRACTORS

Emergency Response Contractors may be called by the Port Environmental department or GA Operations and Maintenance for cleanup of spills. Port of Portland Emergency Response Contractors are listed in an appendix of these procedures.

## 8.0 TENANTS, CONSTRUCTION CONTRACTORS, AND OTHER SERVICE PROVIDERS

Tenants, construction contractors, and service companies must have a spill response plan for their operations, if required by law or pursuant to all applicable agreements with the Port. The plan must include required OSHA items such as training, equipment, and available outside resources.

## 9.0 REGULATORY REPORTING REQUIREMENTS

### *9.1 Tenants, Construction Contractors, and Service Providers*

These entities are responsible for reporting spills they cause that meet regulatory (DEQ/EPA) reporting requirements. They must report to the appropriate regulatory agency and the Port Environmental department.

### *9.2 Port*

The Port Environmental department will notify the appropriate regulatory agency of regulated spills caused by the Port as well as those not reported by RPs, to the extent it has actual knowledge that it has not been reported.

## 10.0 DEFINITIONS

- **“Bio-hazard/Sewage Spills”** are spills of raw sewage or other materials that may contain "Bloodborne Pathogens." OSHA defines "Bloodborne Pathogens" as pathogenic microorganisms that are present in human blood and can cause disease in humans. These pathogens include, but are not limited to, hepatitis B virus (HBV) and human immunodeficiency virus (HIV).
- **“Communications Center”** is located at PDX’s main terminal and is the central notification number for all Emergency/Hazardous Material Spills/Releases. The PDX Communications Center can be reached at: Emergency 503-460-4000, Non-emergency 503-460-4747.
- **“Cleanup Operation”** (in relation to Emergency/Hazardous Material Spills) means an operation where hazardous substances are removed, contained, incinerated, neutralized, stabilized, cleaned up, or in any other manner processed or handled with the ultimate goal of making the site safer for people or the environment.
- **“Emergency/Hazardous Material Spill”** means a spill that may impact a waterway or Port Operations or presents a potential safety or health hazard such as fire, explosion, or chemical exposure.

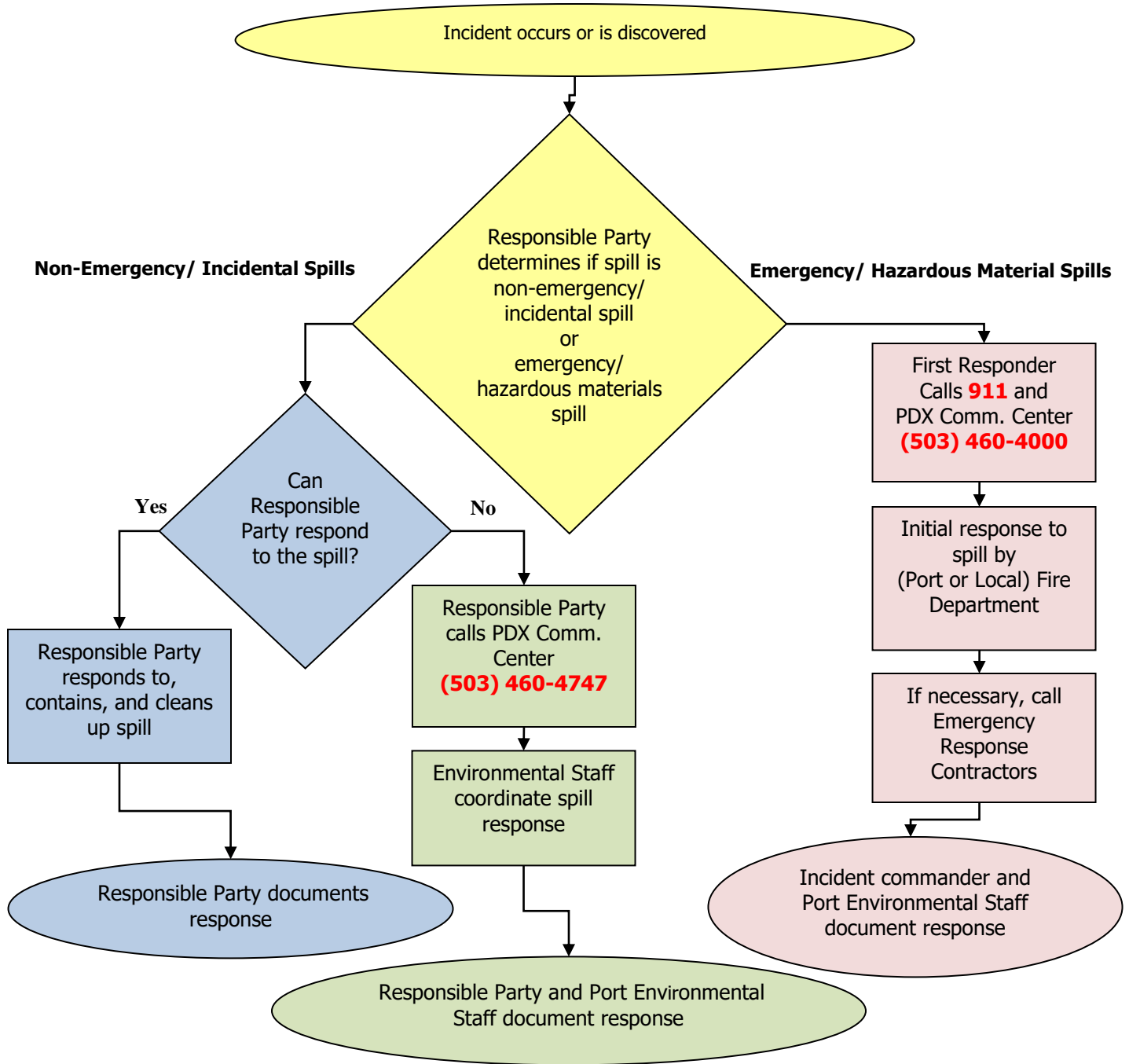
- **“Emergency Response”** means a response effort by employees from outside the immediate release area or by other designated responders (i.e., mutual aid groups, local fire departments, etc.) to an occurrence, which results or is likely to result in an Emergency/Hazardous Material Spill.
- **“Emergency Response Contractors”** are companies that have appropriately trained personnel and equipment to respond to and clean up Emergency/Hazardous Material Spills.
- **“Environmental Receptors”** are areas potentially at risk for environmental contamination from a hazardous substance or petroleum product release. Environmental Receptors may include soil, groundwater, sediments, and surface waters, storm drains, quiescent ponds, and retention ponds.
- **“First Responder”** is the person who witnesses or discovers the spill. This person’s primary responsibility is to clean up the spill, if practical. Also, the First Responder contacts the Communications Center when an Emergency/Hazardous Material (including fuel spills) is discovered, or when direction or assistance is required on a Non-emergency/Incidental Spill.
- **“Hazard Communication”** refers to the OSHA 29 CFR 1910.1200 Hazard Communication or Worker “Right-to-Know” law that includes chemical labeling, training, and work practice requirements.
- **“Hazardous Material/Substance”** includes any and all substances defined or designated as hazardous, toxic, radioactive, dangerous or regulated wastes or materials or any other similar term in or under any applicable laws and regulations. Hazardous Substance shall also include, but not be limited to, fuels, petroleum and petroleum-derived products.
- **“Hazardous Material/Hazardous Substance Release”** shall be interpreted in the broadest sense to mean the spilling, discharge, deposit, injection, dumping, emitting, releasing, leaking, placing, or seepage of any Hazardous Substance into the air or into or on any land or waters, except as specifically authorized by a current and valid permit issued under applicable Environmental Law.
- **“Hazardous Materials Response (HAZMAT) Team”** is a team with appropriate training and equipment who are expected to perform work to handle and control actual or potential leaks or spills of hazardous substances requiring possible close approach to the substance. The team members perform responses to releases or potential releases of hazardous substances for the purpose of

control or stabilization of the incident. The Port of Portland uses the Portland Fire Department HAZMAT team (or the Tualatin Valley or Gresham Fire Department HAZMAT teams) when necessary.

- **“Incident Commander”** is the individual responsible for coordinating the emergency response for Emergency/Hazardous Material Spills and determining if the spill is hazardous. Qualified individuals are trained in the Incident Command System and have at least completed the 24-hour Hazardous Waste Operations and Emergency Response Training in accordance with the HAZWOPER standard, 29 CFR 1910.120 (q) (6).
- **“Non-emergency/Incidental Spills”** means any spill that does not meet the definition of an “Emergency/Hazardous Material Spill.”
- **“PDX”** is the Portland International Airport.
- **“Reportable Quantity”** is defined as the quantity of hazardous material or petroleum product that must be reported to EPA or DEQ if released into the environment. The reportable quantities of hazardous substances are specified in 40 CFR Part 117.3 (listing also included in Appendix A). In the case of petroleum or oil-related products, DEQ regulations define a reportable quantity as any volume equal to or greater than 42 gallons of oil spilled on the ground surface, or if in water, any quantity. The specific reportable quantity may be determined from the material’s Material Safety Data Sheet (MSDS).
- **“Responsible Party (RP)”** is defined as the individual or company whose operations or equipment caused the spill or release. If there is a dispute in determining the RP, the owner of the leasehold will be the default RP and subsequently responsible for the cleanup of the spill.
- **“Waterway Impact Spills”** are any spills that may impact the water/environmental receptors.
- **“40-hour HAZWOPER”** refers to the training requirements detailed in 29 CFR 1910.120 (e) for environmental cleanup contractors.

**Figure 1**  
**Spill Response Procedures Flowchart**

## Aviation Spill Response Flowchart for PDX and GA



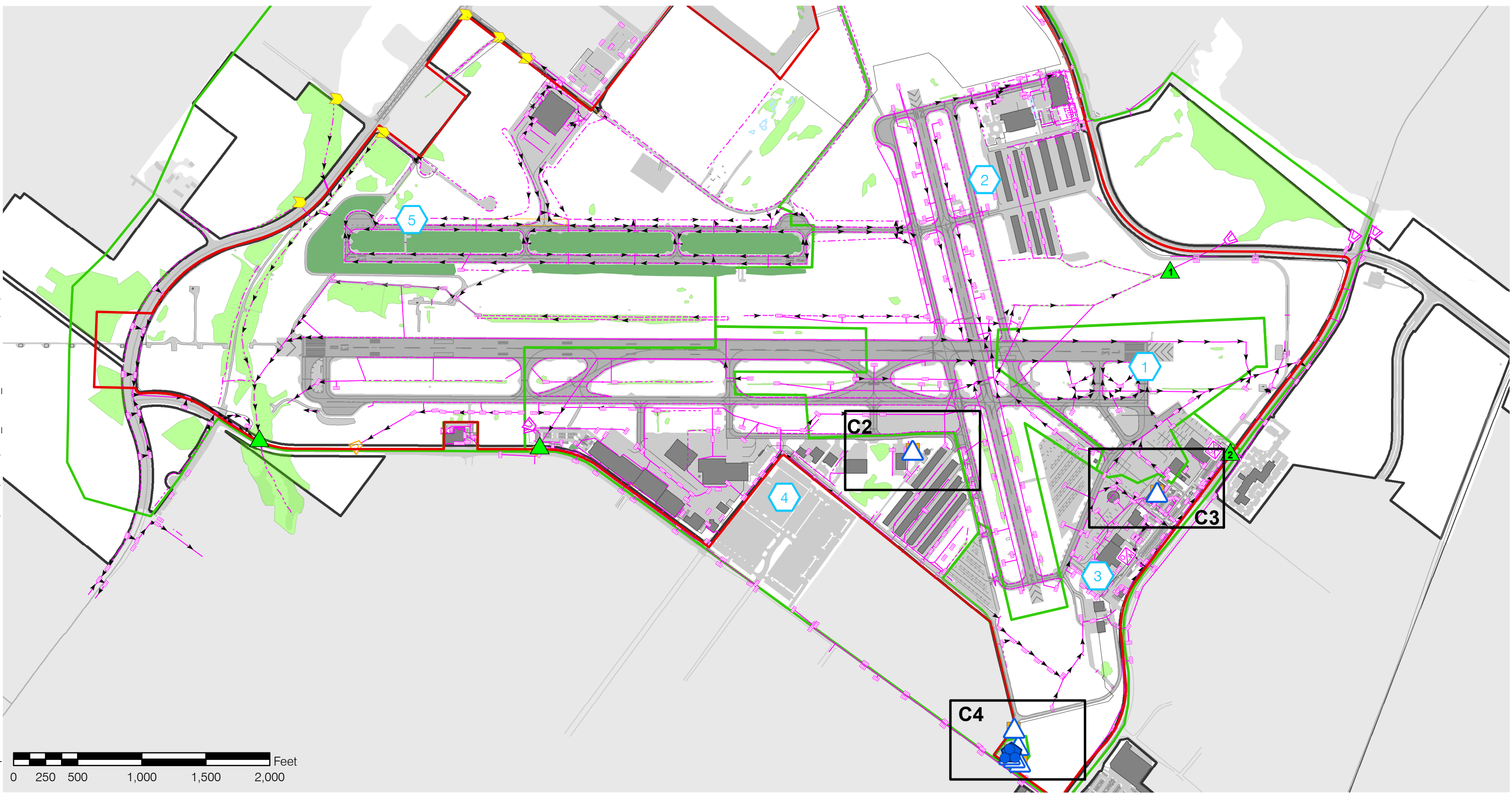
Refer to the Work Instruction: *Aviation Spill Response* < WI-AVI-WTR-003 > posted on the Navigator Environmental page for additional information or contact Aviation Environmental. **Updated: 04-25-2011**



## **Appendix A**

### **Site and Drainage Plan – Hillsboro Airport (HIO)**

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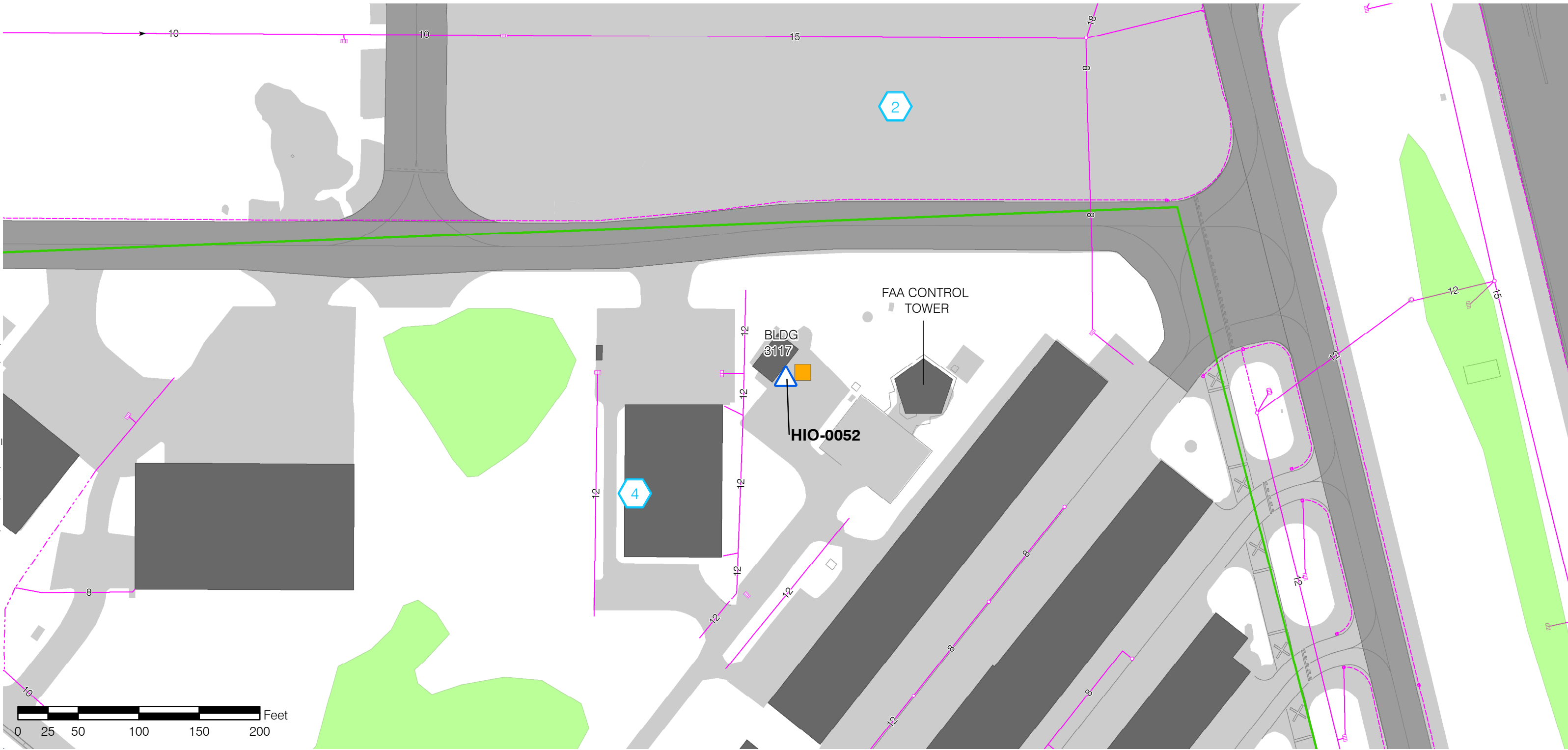
<b>PORT OWNED TANKS</b>	HIO POINT OF RUNON	WETLAND	12" VERIFIED PART OF SYSTEM	OUTFALL
ABOVE GROUND STORAGE TANK	STORM BASIN ID	IMPERVIOUS SURFACE	12" UNVERIFIED PART OF SYSTEM	FLOW VALVE
MOBILE TANK	STORM BASIN BOUNDARY	VEGETATED SWALE	CENTERLINE OF DITCH	MANHOLE & WATER QUALITY MANHOLE
55 GAL. DRUM STORAGE	1200-Z PERMIT BOUNDARY	STORMWATER INFRASTRUCTURE	SAND FILTER	VAULT & OIL / WATER SEPARATOR VAULT
SPILL KIT	PORT PROPERTY BOUNDARY	SUBTERRANEAN DRAINAGE (SUBDRAIN)	CATCH BASIN	
MONITORING POINT				

**STORM POLLUTION CONTROL & COUNTERMEASURE MAP**  
HILLSBORO AIRPORT

**PORT OF PORTLAND**  
HILLSBORO, OREGON

SUBMITTED BY <u>DANELLE PETERSON</u>	DRAWING NO. HIO 2019-3093 1/4 (C1)
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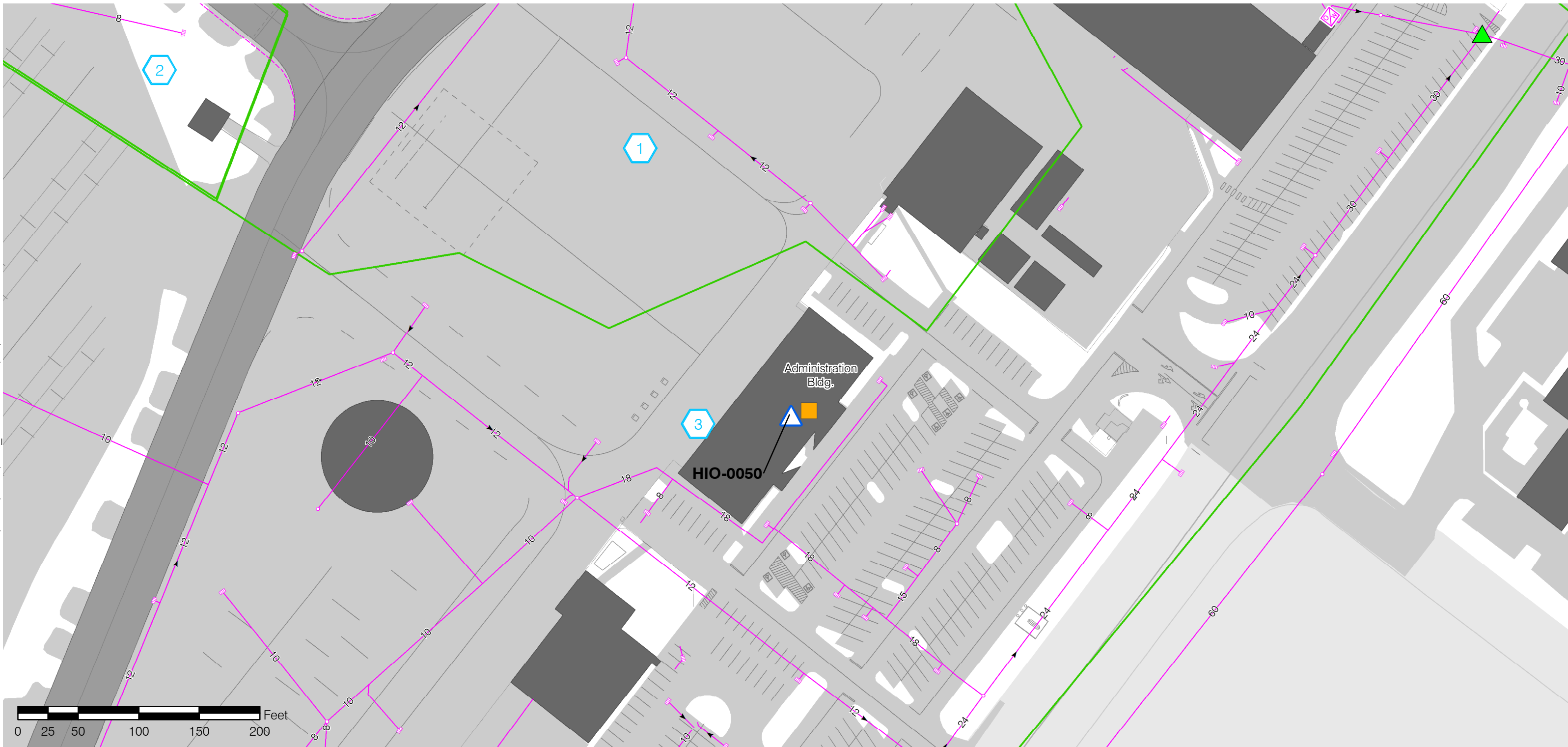
- |                           |                        |                                  |                                     |
|---------------------------|------------------------|----------------------------------|-------------------------------------|
| <b>PORT OWNED TANKS</b>   | STORM BASIN ID         | STORMWATER INFRASTRUCTURE        | OUTFALL                             |
| ABOVE GROUND STORAGE TANK | STORM BASIN BOUNDARY   | SUBTERRANEAN DRAINAGE (SUBDRAIN) | FLOW VALVE                          |
| MOBILE TANK               | 1200-Z PERMIT BOUNDARY | 12" VERIFIED PART OF SYSTEM      | MANHOLE & WATER QUALITY MANHOLE     |
| 55 GAL. DRUM STORAGE      | PORT PROPERTY BOUNDARY | 12" UNVERIFIED PART OF SYSTEM    | VAULT & OIL / WATER SEPARATOR VAULT |
| SPILL KIT                 | WETLAND                | CENTERLINE OF DITCH              | SAND FILTER                         |
| MONITORING POINT          | VEGETATED SWALE        | CATCH BASIN                      |                                     |
| HIO POINT OF RUNON        | IMPERVIOUS SURFACE     |                                  |                                     |

Tank ID	Tank Contents	Tank Capacity (Gallons)
HIO-0037	Diesel	500
HIO-0041	Used Oil	250
HIO-0045	Used Oil	280
HIO-0046	Used Oil	280
HIO-0047	Used Oil	1500
HIO-0048	Mobile Tank: Gasoline, Diesel	100
HIO-0051	55-Gallon Drum Storage: Greases, Oils (Up to 8 drums)	440
HIO-0050	Hydraulic Fluid	65
HIO-0052	Diesel	194

**STORM POLLUTION CONTROL & COUNTERMEASURE MAP**  
HILLSBORO AIRPORT

**PORT OF PORTLAND**  
HILLSBORO, OREGON

SUBMITTED BY <b>DANELLE PETERSON</b>	DRAWING NO. HIO 2019-3093
	2/4 (C2)



- |                           |                        |                                  |                                     |
|---------------------------|------------------------|----------------------------------|-------------------------------------|
| <b>PORT OWNED TANKS</b>   | STORM BASIN ID         | STORMWATER INFRASTRUCTURE        | OUTFALL                             |
| ABOVE GROUND STORAGE TANK | STORM BASIN BOUNDARY   | SUBTERRANEAN DRAINAGE (SUBDRAIN) | FLOW VALVE                          |
| MOBILE TANK               | 1200-Z PERMIT BOUNDARY | VERIFIED PART OF SYSTEM          | MANHOLE & WATER QUALITY MANHOLE     |
| 55 GAL. DRUM STORAGE      | PORT PROPERTY BOUNDARY | UNVERIFIED PART OF SYSTEM        | VAULT & OIL / WATER SEPARATOR VAULT |
| SPILL KIT                 | WETLAND                | CENTERLINE OF DITCH              |                                     |
| MONITORING POINT          | VEGETATED SWALE        | SAND FILTER                      |                                     |
| HIO POINT OF RUNON        | IMPERVIOUS SURFACE     | CATCH BASIN                      |                                     |

Tank ID	Tank Contents	Tank Capacity (Gallons)
HIO-0037	Diesel	500
HIO-0041	Used Oil	250
HIO-0045	Used Oil	280
HIO-0046	Used Oil	280
HIO-0047	Used Oil	1500
HIO-0048	Mobile Tank: Gasoline, Diesel	100
HIO-0051	55-Gallon Drum Storage: Greases, Oils (Up to 8 drums)	440
HIO-0050	Hydraulic Fluid	65
HIO-0052	Diesel	194

### STORM POLLUTION CONTROL & COUNTERMEASURE MAP

#### HILLSBORO AIRPORT

**PORT OF PORTLAND**  
HILLSBORO, OREGON

SUBMITTED BY <b>DANELLE PETERSON</b>	DRAWING NO. HIO 2019-3093
	3/4 (C3)



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- PORT OWNED TANKS**
- ABOVE GROUND STORAGE TANK
  - MOBILE TANK
  - 55 GAL. DRUM STORAGE
  - SPILL KIT
  - MONITORING POINT
  - HIO POINT OF RUNON

- STORM BASIN ID
- STORM BASIN BOUNDARY
- 1200-Z PERMIT BOUNDARY
- PORT PROPERTY BOUNDARY
- WETLAND
- VEGETATED SWALE
- IMPERVIOUS SURFACE

- STORMWATER INFRASTRUCTURE
- SUBTERRANEAN DRAINAGE (SUBDRAIN)
- VERIFIED PART OF SYSTEM
- UNVERIFIED PART OF SYSTEM
- CENTERLINE OF DITCH
- SAND FILTER
- CATCH BASIN

- OUTFALL
- FLOW VALVE
- MANHOLE & WATER QUALITY MANHOLE
- VAULT & OIL / WATER SEPARATOR VAULT

Tank ID	Tank Contents	Tank Capacity (Gallons)
HIO-0037	Diesel	500
HIO-0041	Used Oil	250
HIO-0045	Used Oil	280
HIO-0046	Used Oil	280
HIO-0047	Used Oil	1500
HIO-0048	Mobile Tank: Gasoline, Diesel	100
HIO-0051	55-Gallon Drum Storage: Greases, Oils (Up to 8 drums)	440
HIO-0050	Hydraulic Fluid	65
HIO-0052	Diesel	194

**STORM POLLUTION CONTROL & COUNTERMEASURE MAP**  
HILLSBORO AIRPORT

**PORT OF PORTLAND**  
HILLSBORO, OREGON

SUBMITTED BY <b>DANELLE PETERSON</b>	DRAWING NO. HIO 2019-3093 4/4 (C4)
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**Appendix B**  
**Resource Telephone List**

## Resource Telephone List

Updated: 04/16/2020

Port of Portland		
PDX Communications Center	Emergency Spills	503-460-4000
PDX Communication Center	Non-Emergency	503-460-4747
Danelle Peterson	Spill Response Program Manager	503-201-5099
Stan Jones	Mixed Media Senior Manager	503-807-6585
Darren Griffin	Airport Operations Director	360-975-1448
Steve Nagy	General Aviation Senior Manager	503-860-6731
Nathan Grimes	General Aviation Maintenance and Operations Supervisor	503-709-6816-cell 503-202-2931-pager
Eugen Hollinger	General Maintenance Lead	503-320-2932
Jenn Bies	Environmental Operations Director	503-313-2109
Daniel Reed	Risk Management	541-729-5790-Cell For Emergencies contact the Comm Center
Kama Simmonds	Public Affairs	503-702-7902-Cell For Emergencies outside of business hours contact the Comm Center
Teresa Jacobs	Legal Counsel	505-501-4385
Steve Danielson	Safety and Loss Control Director	503-789-7344
State Agencies		
Oregon Emergency Response System (OERS)		1-800-452-0311
Department of Environmental Quality (DEQ) NW Region		503-229-5263
State Radiation Division		1-800-452-0311
State Department of Energy		1-800-221-8035
State Fire Marshal Hazardous Materials Duty Officer		541-527-2762 503-934-8256-general office
Poison Control Center		1-800-222-1222
Local Agencies		
Clean Water Services		503-681-5175 503-681-3600 – After hours
Federal		
National Response Center (NRC)		1-800-424-8802
US Coast Guard	Transportation Disaster Response-24hr - Hazardous Materials & Oil Spills	503-240-9370
EPA Region 10		1-800-424-4372
EPA Region 10	Portland Office	503-326-3250
Port Emergency Responders		
Terra Hydr, Inc. (24-Hour)	Emergency Responders/Haz. Mat. Cleanup	503-625-4000
Clean Harbors Environmental Services	Emergency Responders/Haz. Mat. Cleanup	1-800-645-8265
Chemical Information		
ChemTrec	Public service hotline for emergency responders	1-800-424-9300
Chemical Reference Center	Private response resource for cargo shipping and transportation	1-800-262-8200



**Appendix C**  
**40 CFR Part 117.3 Reportable Quantities**

(1) Rule 2.41, "Expandable Polystyrene Manufacturing Operations," adopted on September 10, 2008.

\* \* \* \* \*

[FR Doc. 2011-22975 Filed 9-7-11; 8:45 am]

BILLING CODE 6560-50-P

**ENVIRONMENTAL PROTECTION AGENCY**

**40 CFR Parts 116 and 302**

[EPA-HQ-SFUND-2011-0565; FRL-9460-9]

**Designation of Hazardous Substances; Designation, Reportable Quantities, and Notification**

**AGENCY:** Environmental Protection Agency (EPA).

**ACTION:** Final rule; technical amendment.

**SUMMARY:** EPA is issuing a technical amendment to correct, by removal of

three Chemical Abstracts Service Registry Numbers that were erroneously included in the list of hazardous substances under the Comprehensive Environmental Response, Compensation, and Liability Act.

**DATES:** This final rule is effective on September 8, 2011.

**ADDRESSES:** EPA has established a docket for this action under Docket ID No. EPA-HQ-SFUND-2011-0565. All documents in the docket are listed on the <http://www.regulations.gov> Web site. Although listed in the index, some information is not publicly available, e.g., CBI or other information whose disclosure is restricted by statute. Certain other material, such as copyrighted material, is not placed on the Internet and will be publicly available only in hard copy form. Publicly available docket materials are available either electronically through <http://www.regulations.gov> or in hard

copy at the Superfund Docket, EPA/DC, EPA West, Room 3334, 1301 Constitution Ave., NW., Washington, DC. The Public Reading Room is open from 8:30 a.m. to 4:30 p.m., Monday through Friday, excluding legal holidays. The telephone number for the Public Reading Room is (202) 566-1744, and the telephone number for the Superfund Docket is (202) 566-0276.

**FOR FURTHER INFORMATION CONTACT:** Lynn Beasley, Regulation and Policy Development Division, Office of Emergency Management (5104A), Environmental Protection Agency, 1200 Pennsylvania Ave., NW., Washington, DC 20460; telephone number: (202) 564-1965; fax number: (202) 564-2625; e-mail address: [beasley.lynn@epa.gov](mailto:beasley.lynn@epa.gov).

**SUPPLEMENTARY INFORMATION:**

**I. General Information**

*A. Does this action apply to me?*

Type of entity	Examples of affected entities
Federal Agencies .....	National Response Center and any Federal agency that may release or respond to releases of hazardous substances.
State and Local Governments ....	State Emergency Response Commissions, and Local Emergency Planning Committees.
Responsible Parties .....	Those entities responsible for the release of a hazardous substance from a vessel or facility. Those entities with an interest in the substances incorrectly identified by their Chemical Abstracts Service Registry Number(s) as a hazardous substance.

This table is not intended to be exhaustive, but rather provides a guide for readers regarding entities likely to be regulated by this action. This table lists the types of entities that EPA is now aware could potentially be regulated by this action. Other types of entities not listed in the table could also be regulated. If you have questions regarding the applicability of this action to a particular entity, consult the person listed in the preceding **FOR FURTHER INFORMATION CONTACT** section.

*B. How can I get copies of this document and other related information?*

- The current information is as follows:
- Docket ID No. EPA-HQ-SFUND-2011-0565.
  - Federal eRulemaking Portal: <http://www.regulations.gov>.

**II. What does this correction do?**

This technical amendment is a correction to remove three Chemical Abstracts Service (CAS) Registry Numbers that were erroneously identified with *Sodium Phosphate, tribasic*, from the following Title 40 of the Code of Federal Regulations: Table 116.4 A—List of Hazardous Substances; Table 116.4 B—List of Hazardous Substances by CAS Number; Table 302.4—List of Hazardous Substances

and Reportable Quantities; and Appendix A to section 302.4—Sequential CAS Registry Number List of CERCLA Hazardous Substances. The three correct Chemical Abstracts Service Registry Numbers remain on these tables.

On March 13, 1978, EPA issued a final rule in the **Federal Register** that designated hazardous substances under the authority of section 311(b)(2)(A) of the Federal Water Pollution Control Act (*aka*, Clean Water Act or CWA). On April 4, 1985, EPA issued a final rule in the **Federal Register** that designated hazardous substances and adjusted the reportable quantities under the authority of section 102(a) of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). In both of these rules, *Sodium Phosphate, tribasic* was designated as a hazardous substance. For the convenience of the user, hazardous substances are presented in Tables and an Appendix that include the CAS Registry Number for each hazardous substance. In some cases, a chemical name may have more than one CAS Registry Number associated with it due to the chemical's various forms; however, CAS Registry Numbers are

unique to a chemical or substance.<sup>1</sup> That is, two substances or forms of a substance do not have the same CAS Registry Number. *Sodium Phosphate, tribasic* has three CAS Registry Numbers associated with its chemical name. Those CAS Registry Numbers are 7601-54-9, 10101-89-0, and 13061-89-4. The first, 7601-54-9 is associated with the sodium salt of *Sodium Phosphate, tribasic*. The second, 10101-89-0 is associated with the dodecahydrate (*i.e.*, 12 H<sub>2</sub>O) form of *Sodium Phosphate, tribasic*. And the third, 10361-89-4 is associated with the decahydrate (*i.e.*, 10 H<sub>2</sub>O) form of *Sodium Phosphate, tribasic*. Those CAS Registry Numbers will continue to appear on the above cited tables and lists in Title 40 of the Code of Federal Regulations.

A petition from the International Food Additives Counsel,<sup>2</sup> dated March 14,

<sup>1</sup> Each CAS Registry Number (often referred to as a CAS Number): Is a unique numeric identifier, designates only one substance, and has no chemical significance. From the CAS Web site: <http://www.cas.org/expertise/cascontent/registry/regsyst.html>.

<sup>2</sup> Petition for Rulemaking Correction, CAS Numbers in Title 40, Code of Federal Regulations, Section 302.4, Table 302.4—List of Hazardous Substances and Reportable Quantities, Appendix A to Section 302.4—Sequential CAS Registry Number List of CERCLA Hazardous Substances, and Section 116.4 Designation of Hazardous Substances.

2007, brought to the attention of the Agency that several CAS Registry Numbers were erroneously identified with the designated hazardous substance, *Sodium Phosphate, tribasic*. The erroneous CAS Registry Numbers in fact belong to three non-hazardous chemicals; *Sodium Trimetaphosphate (STMP)*, *Sodium Tripolyphosphate (STPP)*, and *Sodium Hexametaphosphate (SHMP)*. The erroneous CAS Registry Numbers associated with *Sodium Phosphate, tribasic* have caused, and will continue to cause regulatory confusion until they are removed from the effected Tables and Appendix. As such, EPA is removing the three CAS Registry Numbers that are erroneously associated with *Sodium Phosphate, tribasic* and leaving the correct CAS Registry Numbers in each of the effected Tables and Appendix.

### III. Why is this correction issued as a final rule?

Section 553 of the Administrative Procedure Act (APA), 5 U.S.C. 553(b)(B), provides that, when an Agency for good cause finds that notice and public procedure are impracticable, unnecessary or contrary to the public interest, the agency may issue a final rule without providing notice and an opportunity for public comment. EPA has determined that there is good cause for making this technical amendment final without prior proposal and opportunity for comment, because EPA is merely correcting information that is confusing to the public because it provides erroneous information about a hazardous substance. Three of the six CAS Registry Numbers identified with the hazardous substance, *Sodium Phosphate, tribasic* in fact belong to three non-hazardous substances. CAS Registry Numbers are provided for the convenience of the public to aid in the identification of the designated hazardous substances. The association of the three CAS Registry Numbers that belong to three non-hazardous substances with *Sodium Phosphate, tribasic* was an error. It is important that the public has accurate and correct regulatory information. EPA finds that this constitutes good cause under 5 U.S.C. 553(b)(B).

### IV. Do any of the statutory and Executive Order reviews apply to this action?

Under Executive Order 12866 (58 FR 51735, October 4, 1993), this action is

not a “significant regulatory action” and is therefore not subject to OMB review. Because this action is not subject to notice and comment requirements under the Administrative Procedures Act or any other statute, it is not subject to the Regulatory Flexibility Act (5 U.S.C. 601 *et seq.*) or Sections 202 and 205 of the Unfunded Mandates Reform Act of 1999 (UMRA) (Pub. L. 104–4). In addition, this action does not significantly or uniquely affect small governments. This action does not create new binding legal requirements that substantially and directly affect Tribes under Executive Order 13175 (63 FR 67249, November 9, 2000). This action does not have significant Federalism implications under Executive Order 13132 (64 FR 43255, August 10, 1999). Because this final rule has been exempted from review under Executive Order 12866, this final rule is not subject to Executive Order 13211, entitled Actions Concerning Regulations That Significantly Affect Energy Supply, Distribution, or Use (66 FR 28355, May 22, 2001) or Executive Order 13045, entitled Protection of Children from Environmental Health Risks and Safety Risks (62 FR 19885, April 23, 1997). This final rule does not contain any information collections subject to OMB approval under the Paperwork Reduction Act (PRA), 44 U.S.C. 3501 *et seq.*, nor does it require any special considerations under Executive Order 12898, entitled Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations (59 FR 7629, February 16, 1994). This action does not involve technical standards; thus, the requirements of Section 12(d) of the National Technology Transfer and Advancement Act of 1995 (15 U.S.C. 272 note) do not apply.

#### A. Congressional Review Act

The Congressional Review Act, 5 U.S.C. 801 *et seq.*, as added by the Small Business Regulatory Enforcement Fairness Act of 1996, generally provides that before a rule may take effect, the agency promulgating the rule must submit a rule report, which includes a copy of the rule, to each House of the Congress and to the Comptroller General of the United States. Section 808 allows the issuing agency to make a rule effective sooner than otherwise provided by the CRA if the agency makes a good cause finding that notice and public procedure is impracticable,

unnecessary or contrary to the public interest. This determination must be supported by a brief statement. 5 U.S.C. 808(2). As stated previously, EPA has made such a good cause finding, including the reasons therefore, and established an effective date of September 8, 2011. EPA will submit a report containing this rule and other required information to the U.S. Senate, the U.S. House of Representatives, and the Comptroller General of the United States prior to publication of the rule in the **Federal Register**. This action is not a “major rule” as defined by 5 U.S.C. 804(2).

### List of Subjects

#### 40 CFR Part 116

Environmental protection, Hazardous substances, Reporting and recordkeeping requirements, Water pollution control.

#### 40 CFR Part 302

Environmental protection, Air pollution control, Chemicals, Hazardous substances, Hazardous waste, Intergovernmental relations, Natural resources, Reporting and recordkeeping requirements, Superfund, Water pollution control, Water supply.

Dated: August 30, 2011.

#### Mathy Stanislaus,

Assistant Administrator, Office of Solid Waste and Emergency Response.

For the reasons set out above, title 40, chapter I of the Code of Federal Regulations is amended as follows:

### PART 116—DESIGNATION OF HAZARDOUS SUBSTANCES

■ 1. The authority citation for part 116 continues to read as follows:

**Authority:** Secs. 311(b)(2)(A) and 501(a), Federal Water Pollution Control Act (33 U.S.C. 1251 *et seq.*)

■ 2. In § 116.4:

■ a. Table 116.4A—List of Hazardous Substances is amended by revising the entry for Sodium phosphate, tribasic; and

■ b. Table 116.4B—List of Hazardous Substances by CAS Number is amended by removing the following entries: 7758294, 7785844, and 10124568.

The revision reads as follows:

#### § 116.4 Designation of hazardous substances.

\* \* \* \* \*

TABLE 116.4A—LIST OF HAZARDOUS SUBSTANCES

Common name	CAS No.	Synonyms	Isomers	CAS No.
* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
Sodium phosphate, tribasic .....	7601549 10101890 10361894			
* * * * *	* * * * *	* * * * *	* * * * *	* * * * *

**PART 302—DESIGNATION, REPORTABLE QUANTITIES, AND NOTIFICATION**

■ 3. The authority citation for part 302 continues to read as follows:

**Authority:** 42 U.S.C. 9602, 9603, and 9604; 33 U.S.C. 1321 and 1361.

- 4. In § 302.4:
- a. Table 302.4—List of Hazardous Substances and Reportable Quantities is amended by revising the entry for Sodium phosphate, tribasic; and
- b. Appendix A to § 302.4—Sequential CAS Registry Number List of CERCLA

Hazardous Substances is amended by removing the following entries: 7758294, 7785844, and 10124568.

The revision reads as follows:

**§ 302.4 Designation of hazardous substances.**

\* \* \* \* \*

TABLE 302.4—LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES

Hazardous substance	CASRN	Statutory code†	RCRA waste No.	Final RQ pounds (Kg)
* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
Sodium phosphate, tribasic .....	7601-54-9 10101-89-0 10361-89-4		1 .....	5000 (2270)
* * * * *	* * * * *	* * * * *	* * * * *	* * * * *

\* \* \* \* \*  
[FR Doc. 2011-22887 Filed 9-7-11; 8:45 am]  
**BILLING CODE 6560-50-P**

**FEDERAL COMMUNICATIONS COMMISSION**

**47 CFR Parts 73 and 79**

[MB Docket No. 11-43; FCC 11-126]

**Video Description: Implementation of the Twenty-First Century Communications and Video Accessibility Act of 2010**

**AGENCY:** Federal Communications Commission.

**ACTION:** Final rule.

**SUMMARY:** This Order reinstates the video description rules adopted by the Commission in 2000. “Video description,” which is the insertion of audio narrated descriptions of a television program’s key visual elements into natural pauses in the program’s dialogue, makes video programming more accessible to individuals who are blind or visually impaired. The Order reinstates the requirement that large-market broadcast affiliates of the top four national networks, and

multichannel video programming distributor systems (“MVPDs”) with more than 50,000 subscribers, provide video description. It also reinstates the requirement that that all network-affiliated broadcasters (commercial or non-commercial) and all MVPDs pass through any video description provided with network programming they carry, to the extent that they are technically capable of doing so and when that technical capability is not being used for another purpose related to the programming.

**DATES:** *Effective date:* October 11, 2011, except for 47 CFR 79.3(d) and (e), which contain information collection requirements that have not been approved by OMB. The Federal Communications Commission will publish a document in the **Federal Register** announcing the effective date. The incorporation by reference of certain publications listed in the rule is approved by the Director of the Federal Register as of October 11, 2011.

*Compliance date:* October 1, 2012.

**FOR FURTHER INFORMATION CONTACT:** Lyle Elder, *Lyle.Elder@fcc.gov* of the Policy Division, Media Bureau, (202) 418-2120.

**SUPPLEMENTARY INFORMATION:** This is a summary of the Federal Communications Commission’s Report and Order in MB Docket No. 11-43, FCC 11-126, adopted August 24, 2011, and released August 25, 2011. The full text of this document is available for public inspection and copying during regular business hours in the FCC Reference Center, Federal Communications Commission, 445 12th Street, SW., CY-A257, Washington, DC 20554. These documents will also be available via ECFS (<http://www.fcc.gov/cgb/ecfs/>). (Documents will be available electronically in ASCII, Word 97, and/or Adobe Acrobat.) The complete text may be purchased from the Commission’s copy contractor, 445 12th Street, SW., Room CY-B402, Washington, DC 20554. To request this document in accessible formats (computer diskettes, large print, audio recording, and Braille), send an e-mail to *fcc504@fcc.gov* or call the Commission’s Consumer and Governmental Affairs Bureau at (202) 418-0530 (voice), (202) 418-0432 (TTY).

**Environmental Protection Agency**

**§ 302.4**

State, municipality, commission, political subdivision of a State, or any interstate body;

*Release* means any spilling, leaking, pumping, pouring, emitting, emptying, discharging, injecting, escaping, leaching, dumping, or disposing into the environment (including the abandonment or discarding of barrels, containers, and other closed receptacles containing any hazardous substance or pollutant or contaminant), but excludes:

(1) Any release which results in exposure to persons solely within a workplace, with respect to a claim which such persons may assert against the employer of such persons;

(2) Emissions from the engine exhaust of a motor vehicle, rolling stock, aircraft, vessel, or pipeline pumping station engine;

(3) Release of source, byproduct, or special nuclear material from a nuclear incident, as those terms are defined in the Atomic Energy Act of 1954, if such release is subject to requirements with respect to financial protection established by the Nuclear Regulatory Commission under section 170 of such Act, or for the purposes of section 104 of the Comprehensive Environmental Response, Compensation, and Liability Act or any other response action, any release of source, byproduct, or special nuclear material from any processing site designated under section 102(a)(1) or 302(a) of the Uranium Mill Tailings Radiation Control Act of 1978; and

(4) The normal application of fertilizer;

*Reportable quantity* (“RQ”) means that quantity, as set forth in this part, the release of which requires notification pursuant to this part;

*United States* include the several States of the United States, the District of Columbia, the Commonwealth of Puerto Rico, Guam, American Samoa, the United States Virgin Islands, the Commonwealth of the North-

ern Marianas, and any other territory or possession over which the United States has jurisdiction; and

*Vessel* means every description of watercraft or other artificial contrivance used, or capable of being used, as a means of transportation on water.

[50 FR 13474, Apr. 4, 1985, as amended at 67 FR 45321, July 9, 2002]

**§ 302.4 Designation of hazardous substances.**

(a) *Listed hazardous substances.* The elements and compounds and hazardous wastes appearing in table 302.4 are designated as hazardous substances under section 102(a) of the Act.

(b) *Unlisted hazardous substances.* A solid waste, as defined in 40 CFR 261.2, which is not excluded from regulation as a hazardous waste under 40 CFR 261.4(b), is a hazardous substance under section 101(14) of the Act if it exhibits any of the characteristics identified in 40 CFR 261.20 through 261.24.

NOTE: The numbers under the column headed “CASRN” are the Chemical Abstracts Service Registry Numbers for each hazardous substance. The “Statutory Code” column indicates the statutory source for designating each substance as a CERCLA hazardous substance: “1” indicates that the statutory source is section 311(b)(2) of the Clean Water Act, “2” indicates that the source is section 307(a) of the Clean Water Act, “3” indicates that the source is section 112 of the Clean Air Act, and “4” indicates that the source is section 3001 of the Resource Conservation and Recovery Act (RCRA). The “RCRA Waste Number” column provides the waste identification numbers assigned to various substances by RCRA regulations. The “Pounds (kg)” column provides the reportable quantity adjustment for each hazardous substance in pounds and kilograms. Appendix A to §302.4, which lists CERCLA hazardous substances in sequential order by CASRN, provides a per-substance grouping of regulatory synonyms (i.e., names by which each hazardous substance is identified in other statutes and their implementing regulations).

TABLE 302.4—LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES

[Note: All Comments/Notes Are Located at the End of This Table]

Hazardous substance	CASRN	Statutory codedagger;	RCRA waste No.	Final RQ pounds (Kg)
Acenaphthene .....	83-32-9	2		100 (45.4)
Acenaphthylene .....	208-96-8	2		5000 (2270)
Acetaldehyde .....	75-07-0	1,3,4	U001	1000 (454)
Acetaldehyde, chloro- .....	107-20-0	4	P023	1000 (454)

§ 302.4

40 CFR Ch. I (7-1-04 Edition)

TABLE 302.4—LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued

[Note: All Comments/Notes Are Located at the End of This Table]

Hazardous substance	CASRN	Statutory codedagger;	RCRA waste No.	Final RQ pounds (Kg)
Acetaldehyde, trichloro- .....	75-87-6	4	U034	5000 (2270)
Acetamide .....	60-35-5	3		100 (45.4)
Acetamide, N-(aminothioxomethyl)- .....	591-08-2	4	P002	1000 (454)
Acetamide, N-(4-ethoxyphenyl)- .....	62-44-2	4	U187	100 (45.4)
Acetamide, N-9H-fluoren-2-yl- .....	53-96-3	3,4	U005	1 (0.454)
Acetamide, 2-fluoro- .....	640-19-7	4	P057	100 (45.4)
Acetic acid .....	64-19-7	1		5000 (2270)
Acetic acid, (2,4-dichlorophenoxy)-, salts & esters .....	94-75-7	1,3,4	U240	100 (45.4)
Acetic acid, ethyl ester .....	141-78-6	4	U112	5000 (2270)
Acetic acid, fluoro-, sodium salt .....	62-74-8	4	P058	10 (4.54)
Acetic acid, lead(2+) salt .....	301-04-2	1,4	U144	10 (4.54)
Acetic acid, thallium(1+) salt .....	563-68-8	4	U214	100 (45.4)
Acetic acid, (2,4,5-trichlorophenoxy)- .....	93-76-5	1,4	See F027	1000 (454)
Acetic anhydride .....	108-24-7	1		5000 (2270)
Acetone .....	67-64-1	4	U002	5000 (2270)
Acetone cyanohydrin .....	75-86-5	1,4	P069	10 (4.54)
Acetonitrile .....	75-05-8	3,4	U003	5000 (2270)
Acetophenone .....	98-86-2	3,4	U004	5000 (2270)
2-Acetylaminofluorene .....	53-96-3	3,4	U005	1 (0.454)
Acetyl bromide .....	506-96-7	1		5000 (2270)
Acetyl chloride .....	75-36-5	1,4	U006	5000 (2270)
1-Acetyl-2-thiourea .....	591-08-2	4	P002	1000 (454)
Acrolein .....	107-02-8	1,2,3,4	P003	1 (0.454)
Acrylamide .....	79-06-1	3,4	U007	5000 (2270)
Acrylic acid .....	79-10-7	3,4	U008	5000 (2270)
Acrylonitrile .....	107-13-1	1,2,3,4	U009	100 (45.4)
Adipic acid .....	124-04-9	1		5000 (2270)
Aldicarb .....	116-06-3	4	P070	1 (0.454)
Aldrin .....	309-00-2	1,2,4	P004	1 (0.454)
Allyl alcohol .....	107-18-6	1,4	P005	100 (45.4)
Allyl chloride .....	107-05-1	1,3		1000 (454)
Aluminum phosphide .....	20859-73-8	4	P006	100 (45.4)
Aluminum sulfate .....	10043-01-3	1		5000 (2270)
4-Aminobiphenyl .....	92-67-1	3		1 (0.454)
5-(Aminomethyl)-3-isoxazolol .....	2763-96-4	4	P007	1000 (454)
4-Aminopyridine .....	504-24-5	4	P008	1000 (454)
Amitrole .....	61-82-5	4	U011	10 (4.54)
Ammonia .....	7664-41-7	1		100 (45.4)
Ammonium acetate .....	631-61-8	1		5000 (2270)
Ammonium benzoate .....	1863-63-4	1		5000 (2270)
Ammonium bicarbonate .....	1066-33-7	1		5000 (2270)
Ammonium bichromate .....	7789-09-5	1		10 (4.54)
Ammonium bifluoride .....	1341-49-7	1		100 (45.4)
Ammonium bisulfite .....	10192-30-0	1		5000 (2270)
Ammonium carbamate .....	1111-78-0	1		5000 (2270)
Ammonium carbonate .....	506-87-6	1		5000 (2270)
Ammonium chloride .....	12125-02-9	1		5000 (2270)
Ammonium chromate .....	7788-98-9	1		10 (4.54)
Ammonium citrate, dibasic .....	3012-65-5	1		5000 (2270)
Ammonium fluoborate .....	13826-83-0	1		5000 (2270)
Ammonium fluoride .....	12125-01-8	1		100 (45.4)
Ammonium hydroxide .....	1336-21-6	1		1000 (454)
Ammonium oxalate .....	6009-70-7	1		5000 (2270)
	5972-73-6			
	14258-49-2			
Ammonium picrate .....	131-74-8	4	P009	10 (4.54)
Ammonium silicofluoride .....	16919-19-0	1		1000 (454)
Ammonium sulfamate .....	7773-06-0	1		5000 (2270)
Ammonium sulfide .....	12135-76-1	1		100 (45.4)
Ammonium sulfite .....	10196-04-0	1		5000 (2270)
Ammonium tartrate .....	14307-43-8	1		5000 (2270)
	3164-29-2			
Ammonium thiocyanate .....	1762-95-4	1		5000 (2270)
Ammonium vanadate .....	7803-55-6	4	P119	1000 (454)
Amyl acetate .....	628-63-7	1		5000 (2270)
iso-Amyl acetate .....	123-92-2			
sec-Amyl acetate .....	626-38-0			
tert-Amyl acetate .....	625-16-1			
Aniline .....	62-53-3	1,3,4	U012	5000 (2270)

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TABLE 302.4—LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued

[Note: All Comments/Notes Are Located at the End of This Table]

Hazardous substance	CASRN	Statutory codedagger;	RCRA waste No.	Final RQ pounds (Kg)
o-Anisidine .....	90-04-0	3		100 (45.4)
Anthracene .....	120-12-7	2		5000 (2270)
Antimonydagger;dagger; .....	7440-36-0	2		5000 (2270)
ANTIMONY AND COMPOUNDS .....	N.A.	2,3		**
Antimony Compounds .....	N.A.	2,3		**
Antimony pentachloride .....	7647-18-9	1		1000 (454)
Antimony potassium tartrate .....	28300-74-5	1		100 (45.4)
Antimony tribromide .....	7789-61-9	1		1000 (454)
Antimony trichloride .....	10025-91-9	1		1000 (454)
Antimony trifluoride .....	7783-56-4	1		1000 (454)
Antimony trioxide .....	1309-64-4	1		1000 (454)
Argentate(1-), bis(cyano-C)-, potassium .....	506-61-6	4	P099	1 (0.454)
Aroclor 1016 .....	12674-11-2	1,2,3		1 (0.454)
Aroclor 1221 .....	11104-28-2	1,2,3		1 (0.454)
Aroclor 1232 .....	11141-16-5	1,2,3		1 (0.454)
Aroclor 1242 .....	53469-21-9	1,2,3		1 (0.454)
Aroclor 1248 .....	12672-29-6	1,2,3		1 (0.454)
Aroclor 1254 .....	11097-69-1	1,2,3		1 (0.454)
Aroclor 1260 .....	11096-82-5	1,2,3		1 (0.454)
Aroclors .....	1336-36-3	1,2,3		1 (0.454)
Arsenicdagger;dagger; .....	7440-38-2	2,3		1 (0.454)
Arsenic acid H3AsO4 .....	7778-39-4	4	P010	1 (0.454)
ARSENIC AND COMPOUNDS .....	N.A.	2,3		**
Arsenic Compounds (inorganic including arsine) .....	N.A.	2,3		**
Arsenic disulfide .....	1303-32-8	1		1 (0.454)
Arsenic oxide As2O3 .....	1327-53-3	1,4	P012	1 (0.454)
Arsenic oxide As2O5 .....	1303-28-2	1,4	P011	1 (0.454)
Arsenic pentoxide .....	1303-28-2	1,4	P011	1 (0.454)
Arsenic trichloride .....	7784-34-1	1		1 (0.454)
Arsenic trioxide .....	1327-53-3	1,4	P012	1 (0.454)
Arsenic trisulfide .....	1303-33-9	1		1 (0.454)
Arsine, diethyl- .....	692-42-2	4	P038	1 (0.454)
Arsinic acid, dimethyl- .....	75-60-5	4	U136	1 (0.454)
Arsonous dichloride, phenyl- .....	696-28-6	4	P036	1 (0.454)
Asbestosdagger;dagger;dagger; .....	1332-21-4	2,3		1 (0.454)
Auramine .....	492-80-8	4	U014	100 (45.4)
Azaserine .....	115-02-6	4	U015	1 (0.454)
Aziridine .....	151-56-4	3,4	P054	1 (0.454)
Aziridine, 2-methyl- .....	75-55-8	3,4	P067	1 (0.454)
Azirino[2',3':3,4]pyrrolo[1,2-a]indole-4,7-dione, 6-amino-8- [[ (aminocarbonyloxy)methyl]-1,1a,2,8,8a,8b- hexahydro-8a-methoxy-5- methyl- [1aS- (1alpha,8beta,8alpha, 8balpha)]- .....	50-07-7	4	U010	10 (4.54)
Barium cyanide .....	542-62-1	1,4	P013	10 (4.54)
Benz[j]aceanthrylene, 1,2-dihydro-3-methyl- .....	56-49-5	4	U157	10 (4.54)
Benz[c]acridine .....	225-51-4	4	U016	100 (45.4)
Benzal chloride .....	98-87-3	4	U017	5000 (2270)
Benzamide, 3,5-dichloro-N-(1,1-dimethyl-2propynyl)- .....	23950-58-5	4	U192	5000 (2270)
Benz[a]anthracene .....	56-55-3	2,4	U018	10 (4.54)
1,2-Benzanthracene .....	56-55-3	2,4	U018	10 (4.54)
Benz[a]anthracene, 7,12-dimethyl- .....	57-97-6	4	U094	1 (0.454)
Benzenamine .....	62-53-3	1,3,4	U012	5000 (2270)
Benzenamine, 4,4'-carbonimidoylbis (N,N dimethyl- .....	492-80-8	4	U014	100 (45.4)
Benzenamine, 4-chloro- .....	106-47-8	4	P024	1000 (454)
Benzenamine, 4-chloro-2-methyl-, hydrochloride .....	3165-93-3	4	U049	100 (45.4)
Benzenamine, N,N-dimethyl-4-(phenylazo)- .....	60-11-7	3,4	U093	10 (4.54)
Benzenamine, 2-methyl- .....	95-53-4	3,4	U328	100 (45.4)
Benzenamine, 4-methyl- .....	106-49-0	4	U353	100 (45.4)
Benzenamine, 4,4'-methylenebis [2-chloro- .....	101-14-4	3,4	U158	10 (4.54)
Benzenamine, 2-methyl-, hydrochloride .....	636-21-5	4	U222	100 (45.4)
Benzenamine, 2-methyl-5-nitro- .....	99-55-8	4	U181	100 (45.4)
Benzenamine, 4-nitro- .....	100-01-6	4	P077	5000 (2270)
Benzene <sup>a</sup> .....	71-43-2	1,2,3,4	U019	10 (4.54)
Benzenoacetic acid, 4-chloro- $\alpha$ -(4-chlorophenyl)- $\alpha$ -hy- droxy-, ethyl ester. .....	510-15-6	3,4	U038	10 (4.54)
Benzene, 1-bromo-4-phenoxy- .....	101-55-3	2,4	U030	100 (45.4)
Benzenoacetic acid, 4-bis(2-chloroethyl)amino- .....	305-03-3	4	U035	10 (4.54)
Benzene, chloro- .....	108-90-7	1,2,3,4	U037	100 (45.4)
Benzene, (chloromethyl)- .....	100-44-7	1,3,4	P028	100 (45.4)

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TABLE 302.4—LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued

[Note: All Comments/Notes Are Located at the End of This Table]

Hazardous substance	CASRN	Statutory codedagger;	RCRA waste No.	Final RQ pounds (Kg)
Benzenediamine, ar-methyl- .....	95-80-7 496-72-0 823-40-5 25376-45-8	3,4	U221	10 (4.54)
1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester .....	117-81-7	2,3,4	U028	100 (45.4)
1,2-Benzenedicarboxylic acid, dibutyl ester .....	84-74-2	1,2,3,4	U069	10 (4.54)
1,2-Benzenedicarboxylic acid, diethyl ester .....	84-66-2	2,4	U088	1000 (454)
1,2-Benzenedicarboxylic acid, dimethyl ester .....	131-11-3	2,3,4	U102	5000 (2270)
1,2-Benzenedicarboxylic acid, dioctyl ester .....	117-84-0	2,4	U107	5000 (2270)
Benzene, 1,2-dichloro- .....	95-50-1	1,2,4	U070	100 (45.4)
Benzene, 1,3-dichloro- .....	541-73-1	2,4	U071	100 (45.4)
Benzene, 1,4-dichloro- .....	106-46-7	1,2,3,4	U072	100 (45.4)
Benzene, 1,1'-(2,2-dichloroethylidene) bis[4-chloro- .....	72-54-8	1,2,4	U060	1 (0.454)
Benzene, (dichloromethyl)- .....	98-87-3	4	U017	5000 (2270)
Benzene, 1,3-diisocyanatomethyl- .....	91-08-7 584-84-9 26471-62-5	3,4	U223	100 (45.4)
Benzene, dimethyl- .....	1330-20-7	1,3,4	U239	100 (45.4)
1,3-Benzenediol .....	108-46-3	1,4	U201	5000 (2270)
1,2-Benzenediol,4-[1-hydroxy-2-(methyl amino)ethyl]- .....	51-43-4	4	P042	1000 (454)
Benzeneethanamine, alpha,alpha-dimethyl- .....	122-09-8	4	P046	5000 (2270)
Benzene, hexachloro- .....	118-74-1	2,3,4	U127	10 (4.54)
Benzene, hexahydro- .....	110-82-7	1,4	U056	1000 (454)
Benzene, methyl- .....	108-88-3	1,2,3,4	U220	1000 (454)
Benzene, 1-methyl-2,4-dinitro- .....	121-14-2	1,2,3,4	U105	10 (4.54)
Benzene, 2-methyl-1,3-dinitro- .....	606-20-2	1,2,4	U106	100 (45.4)
Benzene, (1-methylethyl)- .....	98-82-8	3,4	U055	5000 (2270)
Benzene, nitro- .....	98-95-3	1,2,3,4	U169	1000 (454)
Benzene, pentachloro- .....	608-93-5	4	U183	10 (4.54)
Benzene, pentachloronitro- .....	82-68-8	3,4	U185	100 (45.4)
Benzenesulfonic acid chloride .....	98-09-9	4	U020	100 (45.4)
Benzenesulfonyl chloride .....	98-09-9	4	U020	100 (45.4)
Benzene,1,2,4,5-tetrachloro- .....	95-94-3	4	U207	5000 (2270)
Benzenethiol .....	108-98-5	4	P014	100 (45.4)
Benzene,1,1'-(2,2,2-trichloroethylidene) bis[4-chloro- .....	50-29-3	1,2,4	U061	1 (0.454)
Benzene,1,1'-(2,2,2-trichloroethylidene) bis[4-methoxy- .....	72-43-5	1,3,4	U247	1 (0.454)
Benzene, (trichloromethyl)- .....	98-07-7	3,4	U023	10 (4.54)
Benzene, 1,3,5-trinitro- .....	99-35-4	4	U234	10 (4.54)
Benzidine .....	92-87-5	2,3,4	U021	1 (0.454)
1,2-Benzisothiazol-3(2H)-one, 1,1-dioxide, & salts .....	81-07-2	4	U202	100 (45.4)
Benzo[a]anthracene .....	56-55-3	2,4	U018	10 (4.54)
1,3-Benzodioxole, 5-(1-propenyl)-1 .....	120-58-1	4	U141	100 (45.4)
1,3-Benzodioxole, 5-(2-propenyl)- .....	94-59-7	4	U203	100 (45.4)
1,3-Benzodioxole, 5-propyl- .....	94-58-6	4	U090	10 (4.54)
1,3-Benzodioxol-4-ol, 2,2-dimethyl-, (Bendiocarb phenol) ..	22961-82-6	4	U364	##
1,3-Benzodioxol-4-ol, 2,2-dimethyl-, methyl carbamate (Bendiocarb).	22781-23-3	4	U278	##
Benzo[b]fluoranthene .....	205-99-2	2		1 (0.454)
Benzo[k]fluoranthene .....	207-08-9	2		5000 (2270)
7-Benzofuranol, 2,3-dihydro-2,2-dimethyl- (Carbofuran phenol).	1563-38-8	4	U367	##
7-Benzofuranol, 2,3-dihydro-2,2-dimethyl-, methylcarbamate.	1563-66-2	1,4	P127	10 (4.54)
Benzoic acid .....	65-85-0	1		5000 (2270)
Benzoic acid, 2-hydroxy-, compd. with (3aS- cis)-1,2,3,3a,8,8a-hexahydro-1,3a,8-trimethylpyrrolo [2,3-b]indol-5-yl methylcarbamate ester (1:1) (Physostigmine salicylate).	57-64-7	4	P188	##
Benzonitrile .....	100-47-0	1		5000 (2270)
Benzo[st]pentaphene .....	189-55-9	4	U064	10 (4.54)
Benzo[ghi]perylene .....	191-24-2	2		5000 (2270)
2H-1-Benzopyran-2-one, 4-hydroxy-3-(3-oxo-1-phenylbutyl)-, & salts.	81-81-2	4	P001 U248	100 (45.4)
Benzo[a]pyrene .....	50-32-8	2,4	U022	1 (0.454)
3,4-Benzopyrene .....	50-32-8	2,4	U022	1 (0.454)
p-Benzoquinone .....	106-51-4	3,4	U197	10 (4.54)
Benzotrichloride .....	98-07-7	3,4	U023	10 (4.54)
Benzoyl chloride .....	98-88-4	1		1000 (454)
Benzyl chloride .....	100-44-7	1,3,4	P028	100 (45.4)



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TABLE 302.4—LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued

[Note: All Comments/Notes Are Located at the End of This Table]

Hazardous substance	CASRN	Statutory codedagger;	RCRA waste No.	Final RQ pounds (Kg)
Beryllium dagger;dagger;	7440-41-7	2,3,4	P015	10 (4.54)
BERYLLIUM AND COMPOUNDS	N.A.	2,3		**
Beryllium chloride	7787-47-5	1		1 (0.454)
Beryllium compounds	N.A.	2,3		**
Beryllium fluoride	7787-49-7	1		1 (0.454)
Beryllium nitrate	13597-99-4	1		1 (0.454)
Beryllium powder dagger;dagger;	7440-41-7	2,3,4	P015	10 (4.54)
alpha-BHC	319-84-6	2		10 (4.54)
beta-BHC	319-85-7	2		1 (0.454)
delta-BHC	319-86-8	2		1 (0.454)
gamma-BHC	58-89-9	1,2,3,4	U129	1 (0.454)
2,2'-Bioxirane	1464-53-5	4	U085	10 (4.54)
Biphenyl	92-52-4	3		100 (45.4)
[1,1'-Biphenyl]-4,4'-diamine	92-87-5	2,3,4	U021	1 (0.454)
[1,1'-Biphenyl]-4,4'-diamine,3,3'-dichloro-	91-94-1	2,3,4	U073	1 (0.454)
[1,1'-Biphenyl]-4,4'-diamine,3,3'-dimethoxy-	119-90-4	3,4	U091	100 (45.4)
[1,1'-Biphenyl]-4,4'-diamine,3,3'-dimethyl-	119-93-7	3,4	U095	10 (4.54)
Bis(2-chloroethoxy) methane	111-91-1	2,4	U024	1000 (454)
Bis(2-chloroethyl) ether	111-44-4	2,3,4	U025	10 (4.54)
Bis(chloromethyl) ether	542-88-1	2,3,4	P016	10 (4.54)
Bis(2-ethylhexyl) phthalate	117-81-7	3,4	U028	100 (45.4)
Bromoacetone	598-31-2	4	P017	1000 (454)
Bromoform	75-25-2	2,3,4	U225	100 (45.4)
Bromomethane	74-83-9	2,3,4	U029	1000 (454)
4-Bromophenyl phenyl ether	101-55-3	2,4	U030	100 (45.4)
Brucine	357-57-3	4	P018	100 (45.4)
1,3-Butadiene	106-99-0	3		10 (4.54)
1,3-Butadiene, 1,1,2,3,4,4-hexachloro-	87-68-3	2,3,4	U128	1 (0.454)
1-Butanamine, N-butyl-N-nitroso-	924-16-3	4	U172	10 (4.54)
1-Butanol	71-36-3	4	U031	5000 (2270)
2-Butanone	78-93-3	3,4	U159	5000 (2270)
2-Butanone, 3,3-dimethyl-1(methylthio)-, O-[(methylamino)carbonyl] oxime.	39196-18-4	4	P045	100 (45.4)
2-Butanone peroxide	1338-23-4	4	U160	10 (4.54)
2-Butenal	123-73-9	1,4	U053	100 (45.4)
	4170-30-3			
2-Butene, 1,4-dichloro-	764-41-0	4	U074	1 (0.454)
2-Butenoic acid, 2-methyl-, 7-[[2,3-dihydroxy-2-(1-methoxyethyl)-3- methyl-1-oxobutoxy] methyl]-2,3, 5,7a-tetrahydro- 1H-pyrrolizin-1-yl ester, [1S-[1alpha(Z), 7(2S*,3R*),7aalpha]]-	303-34-4	4	U143	10 (4.54)
Butyl acetate	123-86-4	1		5000 (2270)
iso-Butyl acetate	110-19-0			
sec-Butyl acetate	105-46-4			
tert-Butyl acetate	540-88-5			
n-Butyl alcohol	71-36-3	4	U031	5000 (2270)
Butylamine	109-73-9	1		1000 (454)
iso-Butylamine	78-81-9			
sec-Butylamine	513-49-5			
tert-Butylamine	13952-84-6			
	75-64-9			
Butyl benzyl phthalate	85-68-7	2		100 (45.4)
n-Butyl phthalate	84-74-2	1,2,3,4	U069	10 (4.54)
Butyric acid	107-92-6	1		5000 (2270)
iso-Butyric acid	79-31-2			
Cacodylic acid	75-60-5	4	U136	1 (0.454)
Cadmium dagger;dagger;	7440-43-9	2		10 (4.54)
Cadmium acetate	543-90-8	1		10 (4.54)
CADMIUM AND COMPOUNDS	N.A.	2,3		**
Cadmium bromide	7789-42-6	1		10 (4.54)
Cadmium chloride	10108-64-2	1		10 (4.54)
Cadmium compounds	N.A.	2,3		**
Calcium arsenate	7778-44-1	1		1 (0.454)
Calcium arsenite	52740-16-6	1		1 (0.454)
Calcium carbide	75-20-7	1		10 (4.54)
Calcium chromate	13765-19-0	1,4	U032	10 (4.54)
Calcium cyanamide	156-62-7	3		1000 (454)
Calcium cyanide Ca(CN)2	592-01-8	1,4	P021	10 (4.54)

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TABLE 302.4—LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued

[Note: All Comments/Notes Are Located at the End of This Table]

Hazardous substance	CASRN	Statutory codedagger;	RCRA waste No.	Final RQ pounds (Kg)
Calcium dodecylbenzenesulfonate .....	26264-06-2	1		1000 (454)
Calcium hypochlorite .....	7778-54-3	1		10 (4.54)
Captan .....	133-06-2	1,3		10 (4.54)
Carbamic acid, 1H-benzimidazol-2-yl, methyl ester (Carbendazim).	10605-21-7	4	U372	##
Carbamic acid, [1-[(butylamino)carbonyl]-1H-benzimidazol-2-yl]-, methyl ester (Benomyl).	17804-35-2	4	U271	##
Carbamic acid, (3-chlorophenyl)-, 4-chloro-2-butynyl ester (Barban).	101-27-9	4	U280	##
Carbamic acid, [(dibutylamino)thio]methyl-, 2,3-dihydro-2,2-dimethyl-7-benzofuranyl ester (Carbosulfan).	55285-14-8	4	P189	##
Carbamic acid, dimethyl-, 1-[(dimethylamino)carbonyl]-5-methyl-1H-pyrazol-3-yl ester (Dimetilan).	644-64-4	4	P191	##
Carbamic acid, dimethyl-, 3-methyl-1-(1-methylethyl)-1H-pyrazol-5-yl ester (Isolan).	119-38-0	4	P192	##
Carbamic acid, ethyl ester .....	51-79-6	3,4	U238	100 (45.4)
Carbamic acid, methyl-, 3-methylphenyl ester (Metolcarb)	1129-41-5	4	P190	##
Carbamic acid, methylnitroso-, ethyl ester .....	615-53-2	4	U178	1 (0.454)
Carbamic acid, [1,2-phenylenebis(iminocarbonothioyl)] bis-, dimethyl ester (Thiophanate-methyl).	23564-05-8	4	U409	##
Carbamic acid, phenyl-, 1-methylethyl ester (Propham) ....	122-42-9	4	U373	##
Carbamic chloride, dimethyl- .....	79-44-7	3,4	U097	1 (0.454)
Carbamodithioic acid, 1,2-ethanediybis-, salts & esters ....	111-54-6	4	U114	5000 (2270)
Carbamothioic acid, bis(1-methylethyl)-, S-(2,3-dichloro-2-propenyl) ester.	2303-16-4	4	U062	100 (45.4)
Carbamothioic acid, bis(1-methylethyl)-, S-(2,3,3-trichloro-2-propenyl) ester (Triallate).	2303-17-5	4	U389	##
Carbamothioic acid, dipropyl-, S - (phenylmethyl) ester (Prosulfocarb).	52888-80-9	4	U387	##
Carbaryl .....	63-25-2	1,3,4	U279	100 (45.4)
Carbofuran .....	1563-66-2	1,4	P127	10 (4.54)
Carbon disulfide .....	75-15-0	1,3,4	P022	100 (45.4)
Carbonic acid, dithallium(1+) salt .....	6533-73-9	4	U215	100 (45.4)
Carbonic dichloride .....	75-44-5	1,3,4	P095	10 (4.54)
Carbonic difluoride .....	353-50-4	4	U033	1000 (454)
Carbonochloridic acid, methyl ester .....	79-22-1	4	U156	1000 (454)
Carbon oxyfluoride .....	353-50-4	4	U033	1000 (454)
Carbon tetrachloride .....	56-23-5	1,2,3,4	U211	10 (4.54)
Carbonyl sulfide .....	463-58-1	3		100 (45.4)
Catechol .....	120-80-9	3		100 (45.4)
Chloral .....	75-87-6	4	U034	5000 (2270)
Chloramben .....	133-90-4	3		100 (45.4)
Chlorambucil .....	305-03-3	4	U035	10 (4.54)
Chlordane .....	57-74-9	1,2,3,4	U036	1 (0.454)
Chlordane, alpha & gamma isomers .....	57-74-9	1,2,3,4	U036	1 (0.454)
CHLORDANE (TECHNICAL MIXTURE AND METABOLITES).	57-74-9	1,2,3,4	U036	1 (0.454)
CHLORINATED BENZENES .....	N.A.	2		**
Chlorinated camphene .....	8001-35-2	1,2,3,4	P123	1 (0.454)
CHLORINATED ETHANES .....	N.A.	2		**
CHLORINATED NAPHTHALENE .....	N.A.	2		**
CHLORINATED PHENOLS .....	N.A.	2		**
Chlorine .....	7782-50-5	1,3		10 (4.54)
Chloromaphazine .....	494-03-1	4	U026	100 (45.4)
Chloroacetaldehyde .....	107-20-0	4	P023	1000 (454)
Chloroacetic acid .....	79-11-8	3		100 (45.4)
2-Chloroacetophenone .....	532-27-4	3		100 (45.4)
CHLOROALKYL ETHERS .....	N.A.	2		**
p-Chloroaniline .....	106-47-8	4	P024	1000 (454)
Chlorobenzene .....	108-90-7	1,2,3,4	U037	100 (45.4)
Chlorobenzilate .....	510-15-6	3,4	U038	10 (4.54)
p-Chloro-m-cresol .....	59-50-7	2,4	U039	5000 (2270)
Chlorodibromomethane .....	124-48-1	2		100 (45.4)
1-Chloro-2,3-epoxypropane .....	106-89-8	1,3,4	U041	100 (45.4)
Chloroethane .....	75-00-3	2,3		100 (45.4)
2-Chloroethyl vinyl ether .....	110-75-8	2,4	U042	1000 (454)
Chloroform .....	67-66-3	1,2,3,4	U044	10 (4.54)
Chloromethane .....	74-87-3	2,3,4	U045	100 (45.4)
Chloromethyl methyl ether .....	107-30-2	3,4	U046	10 (4.54)

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TABLE 302.4—LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued

[Note: All Comments/Notes Are Located at the End of This Table]

Hazardous substance	CASRN	Statutory codedagger;	RCRA waste No.	Final RQ pounds (Kg)
beta-Chloronaphthalene .....	91-58-7	2,4	U047	5000 (2270)
2-Chloronaphthalene .....	91-58-7	2,4	U047	5000 (2270)
2-Chlorophenol .....	95-57-8	2,4	U048	100 (45.4)
o-Chlorophenol .....	95-57-8	2,4	U048	100 (45.4)
4-Chlorophenyl phenyl ether .....	7005-72-3	2		5000 (2270)
1-(o-Chlorophenyl)thiourea .....	5344-82-1	4	P026	100 (45.4)
Chloroprene .....	126-99-8	3		100 (45.4)
3-Chloropropionitrile .....	542-76-7	4	P027	1000 (454)
Chlorosulfonic acid .....	7790-94-5	1		1000 (454)
4-Chloro-o-toluidine, hydrochloride .....	3165-93-3	4	U049	100 (45.4)
Chlorpyrifos .....	2921-88-2	1		1 (0.454)
Chromic acetate .....	1066-30-4	1		1000 (454)
Chromic acid .....	11115-74-5	1		10 (4.54)
	7738-94-5			
Chromic acid H <sub>2</sub> CrO <sub>4</sub> , calcium salt .....	13765-19-0	1,4	U032	10 (4.54)
Chromic sulfate .....	10101-53-8	1		1000 (454)
Chromium dagger;dagger; .....	7440-47-3	2		5000 (2270)
CHROMIUM AND COMPOUNDS .....	N.A.	2,3		**
Chromium Compounds .....	N.A.	2,3		**
Chromous chloride .....	10049-05-5	1		1000 (454)
Chrysene .....	218-01-9	2,4	U050	100 (45.4)
Cobalt Compounds .....	N.A.	3		**
Cobaltous bromide .....	7789-43-7	1		1000 (454)
Cobaltous formate .....	544-18-3	1		1000 (454)
Cobaltous sulfamate .....	14017-41-5	1		1000 (454)
Coke Oven Emissions .....	N.A.	3		1 (0.454)
Copper dagger;dagger; .....	7440-50-8	2		5000 (2270)
COPPER AND COMPOUNDS .....	N.A.	2		**
Copper cyanide Cu(CN) .....	544-92-3	4	P029	10 (4.54)
Coumaphos .....	56-72-4	1		10 (4.54)
Creosote .....	N.A.	4	U051	1 (0.454)
Cresol (cresylic acid) .....	1319-77-3	1,3,4	U052	100 (45.4)
m-Cresol .....	108-39-4	3		100 (45.4)
o-Cresol .....	95-48-7	3		100 (45.4)
p-Cresol .....	106-44-5	3		100 (45.4)
Cresols (isomers and mixture) .....	1319-77-3	1,3,4	U052	100 (45.4)
Cresylic acid (isomers and mixture) .....	1319-77-3	1,3,4	U052	100 (45.4)
Crotonaldehyde .....	123-73-9	1,4	U053	100 (45.4)
	4170-30-3			
Cumene .....	98-82-8	3,4	U055	5000 (2270)
Cupric acetate .....	142-71-2	1		100 (45.4)
Cupric acetoarsenite .....	12002-03-8	1		1 (0.454)
Cupric chloride .....	7447-39-4	1		10 (4.54)
Cupric nitrate .....	3251-23-8	1		100 (45.4)
Cupric oxalate .....	5893-66-3	1		100 (45.4)
Cupric sulfate .....	7758-98-7	1		10 (4.54)
Cupric sulfate, ammoniated .....	10380-29-7	1		100 (45.4)
Cupric tartrate .....	815-82-7	1		100 (45.4)
Cyanide Compounds .....	N.A.	2,3		**
CYANIDES .....	N.A.	2,3		**
Cyanides (soluble salts and complexes) not otherwise specified.	N.A.	4	P030	10 (4.54)
Cyanogen .....	460-19-5	4	P031	100 (45.4)
Cyanogen bromide (CN)Br .....	506-68-3	4	U246	1000 (454)
Cyanogen chloride (CN)Cl .....	506-77-4	1,4	P033	10 (4.54)
2,5-Cyclohexadiene-1,4-dione .....	106-51-4	3,4	U197	10 (4.54)
Cyclohexane .....	110-82-7	1,4	U056	1000 (454)
Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1 $\alpha$ , 2 $\alpha$ , 3 $\beta$ -, 4 $\alpha$ , 5 $\alpha$ , 6 $\beta$ ).	58-89-9	1,2,3,4	U129	1 (0.454)
Cyclohexanone .....	108-94-1	4	U057	5000 (2270)
2-Cyclohexyl-4,6-dinitrophenol .....	131-89-5	4	P034	100 (45.4)
1,3-Cyclopentadiene, 1,2,3,4,5,5-hexachloro- .....	77-47-4	1,2,3,4	U130	10 (4.54)
Cyclophosphamide .....	50-18-0	4	U058	10 (4.54)
2,4-D Acid .....	94-75-7	1,3,4	U240	100 (45.4)

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TABLE 302.4—LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued

[Note: All Comments/Notes Are Located at the End of This Table]

Hazardous substance	CASRN	Statutory codedagger;	RCRA waste No.	Final RQ pounds (Kg)
2,4-D Ester .....	94-11-1 94-79-1 94-80-4 1320-18-9 1928-38-7 1928-61-6 1929-73-3 2971-38-2 25168-26-7 53467-11-1	1		100 (45.4)
2,4-D, salts and esters .....	94-75-7	1,3,4	U240	100 (45.4)
Daunomycin .....	20830-81-3	4	U059	10 (4.54)
DDD .....	72-54-8	1,2,4	U060	1 (0.454)
4,4'-DDD .....	72-54-8	1,2,4	U060	1 (0.454)
DDE <sup>b</sup> .....	72-55-9	2		1 (0.454)
DDE <sup>b</sup> .....	3547-04-4	3		5000 (2270)
4,4'-DDE .....	72-55-9	2		1 (0.454)
DDT .....	50-29-3	1,2,4	U061	1 (0.454)
4,4'-DDT .....	50-29-3	1,2,4	U061	1 (0.454)
DDT AND METABOLITES .....	N.A.	2		**
DEHP .....	117-81-7	2,3,4	U028	100 (45.4)
Diallate .....	2303-16-4	4	U062	100 (45.4)
Diazinon .....	333-41-5	1		1 (0.454)
Diazomethane .....	334-88-3	3		100 (45.4)
Dibenz[a,h]anthracene .....	53-70-3	2,4	U063	1 (0.454)
1,2:5,6-Dibenzanthracene .....	53-70-3	2,4	U063	1 (0.454)
Dibenzo[a,h]anthracene .....	53-70-3	2,4	U063	1 (0.454)
Dibenzofuran .....	132-64-9	3		100 (45.4)
Dibenzo[a,i]pyrene .....	189-55-9	4	U064	10 (4.54)
1,2-Dibromo-3-chloropropane .....	96-12-8	3,4	U066	1 (0.454)
Dibromoethane .....	106-93-4	1,3,4	U067	1 (0.454)
Dibutyl phthalate .....	84-74-2	1,2,3,4	U069	10 (4.54)
Di-n-butyl phthalate .....	84-74-2	1,2,3,4	U069	10 (4.54)
Dicamba .....	1918-00-9	1		1000 (454)
Dichlobenil .....	1194-65-6	1		100 (45.4)
Dichlone .....	117-80-6	1		1 (0.454)
Dichlorobenzene .....	25321-22-6	1		100 (45.4)
1,2-Dichlorobenzene .....	95-50-1	1,2,4	U070	100 (45.4)
1,3-Dichlorobenzene .....	541-73-1	2,4	U071	100 (45.4)
1,4-Dichlorobenzene .....	106-46-7	1,2,3,4	U072	100 (45.4)
m-Dichlorobenzene .....	541-73-1	2,4	U071	100 (45.4)
o-Dichlorobenzene .....	95-50-1	1,2,4	U070	100 (45.4)
p-Dichlorobenzene .....	106-46-7	1,2,3,4	U072	100 (45.4)
DICHLOROBENZIDINE .....	N.A.	2		**
3,3'-Dichlorobenzidine .....	91-94-1	2,3,4	U073	1 (0.454)
Dichlorobromomethane .....	75-27-4	2		5000 (2270)
1,4-Dichloro-2-butene .....	764-41-0	4	U074	1 (0.454)
Dichlorodifluoromethane .....	75-71-8	4	U075	5000 (2270)
1,1-Dichloroethane .....	75-34-3	2,3,4	U076	1000 (454)
1,2-Dichloroethane .....	107-06-2	1,2,3,4	U077	100 (45.4)
1,1-Dichloroethylene .....	75-35-4	1,2,3,4	U078	100 (45.4)
1,2-Dichloroethylene .....	156-60-5	2,4	U079	1000 (454)
Dichloroethyl ether .....	111-44-4	2,3,4	U025	10 (4.54)
Dichloroisopropyl ether .....	108-60-1	2,4	U027	1000 (454)
Dichloromethane .....	75-09-2	2,3,4	U080	1000 (454)
Dichloromethoxyethane .....	111-91-1	2,4	U024	1000 (454)
Dichloromethyl ether .....	542-88-1	2,3,4	P016	10 (4.54)
2,4-Dichlorophenol .....	120-83-2	2,4	U081	100 (45.4)
2,6-Dichlorophenol .....	87-65-0	4	U082	100 (45.4)
Dichlorophenylarsine .....	696-28-6	4	P036	1 (0.454)
Dichloropropane .....	26638-19-7	1		1000 (454)
1,1-Dichloropropane .....	78-99-9			
1,3-Dichloropropane .....	142-28-9			
1,2-Dichloropropane .....	78-87-5	1,2,3,4	U083	1000 (454)
Dichloropropane—Dichloropropene (mixture) .....	8003-19-8	1		100 (45.4)
Dichloropropene .....	26952-23-8	1		100 (45.4)
2,3-Dichloropropene .....	78-88-6			
1,3-Dichloropropene .....	542-75-6	1,2,3,4	U084	100 (45.4)
2,2-Dichloropropionic acid .....	75-99-0	1		5000 (2270)

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TABLE 302.4—LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued

[Note: All Comments/Notes Are Located at the End of This Table]

Hazardous substance	CASRN	Statutory codedagger;	RCRA waste No.	Final RQ pounds (Kg)
Dichlorvos .....	62-73-7	1,3		10 (4.54)
Dicofol .....	115-32-2	1		10 (4.54)
Dieldrin .....	60-57-1	1,2,4	P037	1 (0.454)
1,2:3,4-Diepoxybutane .....	1464-53-5	4	U085	10 (4.54)
Diethanolamine .....	111-42-2	3		100 (45.4)
Diethylamine .....	109-89-7	1		100 (45.4)
N,N-Diethylaniline .....	91-66-7	3		1000 (454)
Diethylarsine .....	692-42-2	4	P038	1 (0.454)
1,4-Diethyleneoxide .....	123-91-1	3,4	U108	100 (45.4)
Diethylhexyl phthalate .....	117-81-7	2,3,4	U028	100 (45.4)
N,N'-Diethylhydrazine .....	1615-80-1	4	U086	10 (4.54)
O,O-Diethyl S-methyl dithiophosphate .....	3288-58-2	4	U087	5000 (2270)
Diethyl-p-nitrophenyl phosphate .....	311-45-5	4	P041	100 (45.4)
Diethyl phthalate .....	84-66-2	2,4	U088	1000 (454)
O,O-Diethyl O-pyrazinyl phosphorothioate .....	297-97-2	4	P040	100 (45.4)
Diethylstilbestrol .....	56-53-1	4	U089	1 (0.454)
Diethyl sulfate .....	64-67-5	3		10 (4.54)
Dihydrosafrole .....	94-58-6	4	U090	10 (4.54)
Diisopropylfluorophosphate (DFP) .....	55-91-4	4	P043	100 (45.4)
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-, (1alpha,4alpha,4beta,5alpha,8alpha,8beta)- .....	309-00-2	1,2,4	P004	1 (0.454)
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-, (1alpha,4alpha,4beta,5beta,8beta,8beta)- .....	465-73-6	4	P060	1 (0.454)
2,7:3,6-Dimethanonaphth[2,3-b]oxirene,3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-(1alpha,2beta,2alpha,3beta,6beta,6alpha,7beta,7alpha)- .....	60-57-1	1,2,4	P037	1 (0.454)
2,7:3,6-Dimethanonaphth[2,3-b]oxirene,3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-(1alpha,2beta,2alpha,3beta,6beta,6alpha,7beta,7alpha)-, & metabolites .....	72-20-8	1,2,4	P051	1 (0.454)
Dimethoate .....	60-51-5	4	P044	10 (4.54)
3,3'-Dimethoxybenzidine .....	119-90-4	3,4	U091	100 (45.4)
Dimethylamine .....	124-40-3	1,4	U092	1000 (454)
Dimethyl aminoazobenzene .....	60-11-7	3,4	U093	10 (4.54)
p-Dimethylaminoazobenzene .....	60-11-7	3,4	U093	10 (4.54)
N,N-Dimethylaniline .....	121-69-7	3		100 (45.4)
7,12-Dimethylbenz[a]anthracene .....	57-97-6	4	U094	1 (0.454)
3,3'-Dimethylbenzidine .....	119-93-7	3,4	U095	10 (4.54)
alpha, alpha-Dimethylbenzylhydroperoxide .....	80-15-9	4	U096	10 (4.54)
Dimethylcarbamoyl chloride .....	79-44-7	3,4	U097	1 (0.454)
Dimethylformamide .....	68-12-2	3		100 (45.4)
1,1-Dimethylhydrazine .....	57-14-7	3,4	U098	10 (4.54)
1,2-Dimethylhydrazine .....	540-73-8	4	U099	1 (0.454)
alpha, alpha-Dimethylphenethylamine .....	122-09-8	4	P046	5000 (2270)
2,4-Dimethylphenol .....	105-67-9	2,4	U101	100 (45.4)
Dimethyl phthalate .....	131-11-3	2,3,4	U102	5000 (2270)
Dimethyl sulfate .....	77-78-1	3,4	U103	100 (45.4)
Dinitrobenzene (mixed) .....	25154-54-5	1		100 (45.4)
m-Dinitrobenzene .....	99-65-0			
o-Dinitrobenzene .....	528-29-0			
p-Dinitrobenzene .....	100-25-4			
4,6-Dinitro-o-cresol, and salts .....	534-52-1	2,3,4	P047	10 (4.54)
Dinitrophenol .....	25550-58-7	1		10 (4.54)
2,5-Dinitrophenol .....	329-71-5			
2,6-Dinitrophenol .....	573-56-8			
2,4-Dinitrophenol .....	51-28-5	1,2,3,4	P048	10 (4.54)
Dinitrotoluene .....	25321-14-6	1,2		10 (4.54)
3,4-Dinitrotoluene .....	610-39-9			
2,4-Dinitrotoluene .....	121-14-2	1,2,3,4	U105	10 (4.54)
2,6-Dinitrotoluene .....	606-20-2	1,2,4	U106	100 (45.4)
Dinoseb .....	88-85-7	4	P020	1000 (454)
Di-n-octyl phthalate .....	117-84-0	2,4	U107	5000 (2270)
1,4-Dioxane .....	123-91-1	3,4	U108	100 (45.4)
DIPHENYLHYDRAZINE .....	N.A.	2		**
1,2-Diphenylhydrazine .....	122-66-7	2,3,4	U109	10 (4.54)
Diphosphoramidate, octamethyl- .....	152-16-9	4	P085	100 (45.4)

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TABLE 302.4—LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued

[Note: All Comments/Notes Are Located at the End of This Table]

Hazardous substance	CASRN	Statutory codedagger;	RCRA waste No.	Final RQ pounds (Kg)
Diphosphoric acid, tetraethyl ester	107-49-3	1,4	P111	10 (4.54)
Dipropylamine	142-84-7	4	U110	5000 (2270)
Di-n-propylnitrosamine	621-64-7	2,4	U111	10 (4.54)
Diquat	85-00-7	1		1000 (454)
	2764-72-9			
Disulfoton	298-04-4	1,4	P039	1 (0.454)
Dithiobiuret	541-53-7	4	P049	100 (45.4)
1,3-Dithiolane-2- carboxaldehyde, 2,4- dimethyl-O- [(methylamino)carbonyl] oxime (Tirpate).	26419-73-8	4	P185	##
Diuron	330-54-1	1		100 (45.4)
Dodecylbenzenesulfonic acid	27176-87-0	1		1000 (454)
Endosulfan	115-29-7	1,2,4	P050	1 (0.454)
alpha-Endosulfan	959-98-8	2		1 (0.454)
beta-Endosulfan	33213-65-9	2		1 (0.454)
ENDOSULFAN AND METABOLITES	N.A.	2		**
Endosulfan sulfate	1031-07-8	2		1 (0.454)
Endothall	145-73-3	4	P088	1000 (454)
Endrin	72-20-8	1,2,4	P051	1 (0.454)
Endrin aldehyde	7421-93-4	2		1 (0.454)
ENDRIN AND METABOLITES	N.A.	2		**
Endrin, & metabolites	72-20-8	1,2,4	P051	1 (0.454)
Epichlorohydrin	106-89-8	1,3,4	U041	100 (45.4)
Epinephrine	51-43-4	4	P042	1000 (454)
1,2-Epoxybutane	106-88-7	3		100 (45.4)
Ethanal	75-07-0	1,3,4	U001	1000 (454)
Ethanamine, N,N-diethyl-	121-44-8	1,3,4	U404	5000 (2270)
Ethanamine, N-ethyl-N-nitroso-	55-18-5	4	U174	1 (0.454)
1,2-Ethanediamine, N,N-dimethyl-N'-2- pyridinyl-N'-(2-thienylmethyl)-.	91-80-5	4	U155	5000 (2270)
Ethane, 1,2-dibromo-	106-93-4	1,3,4	U067	1 (0.454)
Ethane, 1,1-dichloro-	75-34-3	2,3,4	U076	1000 (454)
Ethane, 1,2-dichloro-	107-06-2	1,2,3,4	U077	100 (45.4)
Ethanedinitrile	460-19-5	4	P031	100 (45.4)
Ethane, hexachloro-	67-72-1	2,3,4	U131	100 (45.4)
Ethane, 1,1'-[methylenebis(oxy)]bis[2- chloro-	111-91-1	2,4	U024	1000 (454)
Ethane, 1,1'-oxybis-	60-29-7	4	U117	100 (45.4)
Ethane, 1,1'-oxybis[2-chloro-	111-44-4	2,3,4	U025	10 (4.54)
Ethane, pentachloro-	76-01-7	4	U184	10 (4.54)
Ethane, 1,1,1,2-tetrachloro-	630-20-6	4	U208	100 (45.4)
Ethane, 1,1,2,2-tetrachloro-	79-34-5	2,3,4	U209	100 (45.4)
Ethanethioamide	62-55-5	4	U218	10 (4.54)
Ethane, 1,1,1-trichloro-	71-55-6	2,3,4	U226	1000 (454)
Ethane, 1,1,2-trichloro-	79-00-5	2,3,4	U227	100 (45.4)
Ethanimidothioic acid, 2-(dimethylamino)-N-hydroxy-2-oxo-, methyl ester (A2213).	30558-43-1	4	U394	##
Ethanimidothioic acid, 2-(dimethylamino)-N-[[[(methylamino)carbonyl]oxy]-2-oxo-, methyl ester (Oxamyl).	23135-22-0	4	P194	##
Ethanimidothioic acid, N-[[[(methylamino) carbonyl]oxy]-, methyl ester.	16752-77-5	4	P066	100 (45.4)
Ethanimidothioic acid, N,N'[[thiobis[(methylimino) carbonyl]oxy]]bis-, dimethyl ester (Thiodicarb).	59669-26-0	4	U410	##
Ethanol, 2-ethoxy-	110-80-5	4	U359	1000 (454)
Ethanol, 2,2'-(nitrosoimino)bis-	1116-54-7	4	U173	1 (0.454)
Ethanol, 2,2'-oxybis-, dicarbamate (Diethylene glycol, dicarbamate).	5952-26-1	4	U395	##
Ethanone, 1-phenyl-	98-86-2	3,4	U004	5000 (2270)
Ethene, chloro-	75-01-4	2,3,4	U043	1 (0.454)
Ethene, (2-chloroethoxy)-	110-75-8	2,4	U042	1000 (454)
Ethene, 1,1-dichloro-	75-35-4	1,2,3,4	U078	100 (45.4)
Ethene, 1,2-dichloro-(E)	156-60-5	2,4	U079	1000 (454)
Ethene, tetrachloro-	127-18-4	2,3,4	U210	100 (45.4)
Ethene, trichloro-	79-01-6	1,2,3,4	U228	100 (45.4)
Ethion	563-12-2	1		10 (4.54)
Ethyl acetate	141-78-6	4	U112	5000 (2270)
Ethyl acrylate	140-88-5	3,4	U113	1000 (454)
Ethylbenzene	100-41-4	1,2,3		1000 (454)
Ethyl carbamate	51-79-6	3,4	U238	100 (45.4)
Ethyl chloride	75-00-3	2,3		100 (45.4)

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TABLE 302.4—LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued

[Note: All Comments/Notes Are Located at the End of This Table]

Hazardous substance	CASRN	Statutory codedagger;	RCRA waste No.	Final RQ pounds (Kg)
Ethyl cyanide .....	107-12-0	4	P101	10 (4.54)
Ethylenebisdithiocarbamic acid, salts & esters .....	111-54-6	4	U114	5000 (2270)
Ethylenediamine .....	107-15-3	1		5000 (2270)
Ethylenediamine-tetraacetic acid (EDTA) .....	60-00-4	1		5000 (2270)
Ethylene dibromide .....	106-93-4	1,3,4	U067	1 (0.454)
Ethylene dichloride .....	107-06-2	1,2,3,4	U077	100 (45.4)
Ethylene glycol .....	107-21-1	3		5000 (2270)
Ethylene glycol monoethyl ether .....	110-80-5	4	U359	1000 (454)
Ethylene oxide .....	75-21-8	3,4	U115	10 (4.54)
Ethylenethiourea .....	96-45-7	3,4	U116	10 (4.54)
Ethylenimine .....	151-56-4	3,4	P054	1 (0.454)
Ethyl ether .....	60-29-7	4	U117	100 (45.4)
Ethylidene dichloride .....	75-34-3	2,3,4	U076	1000 (454)
Ethyl methacrylate .....	97-63-2	4	U118	1000 (454)
Ethyl methanesulfonate .....	62-50-0	4	U119	1 (0.454)
Famphur .....	52-85-7	4	P097	1000 (454)
Ferric ammonium citrate .....	1185-57-5	1		1000 (454)
Ferric ammonium oxalate .....	2944-67-4	1		1000 (454)
	55488-87-4			
Ferric chloride .....	7705-08-0	1		1000 (454)
Ferric fluoride .....	7783-50-8	1		100 (45.4)
Ferric nitrate .....	10421-48-4	1		1000 (454)
Ferric sulfate .....	10028-22-5	1		1000 (454)
Ferrous ammonium sulfate .....	10045-89-3	1		1000 (454)
Ferrous chloride .....	7758-94-3	1		100 (45.4)
Ferrous sulfate .....	7720-78-7	1		1000 (454)
	7782- 63-0			
Fine mineral fibers <sup>c</sup> .....	N.A.	3		**
Fluoranthene .....	206-44-0	2,4	U120	100 (45.4)
Fluorene .....	86-73-7	2		5000 (2270)
Fluorine .....	7782-41-4	4	P056	10 (4.54)
Fluoroacetamide .....	640-19-7	4	P057	100 (45.4)
Fluoroacetic acid, sodium salt .....	62-74-8	4	P058	10 (4.54)
Formaldehyde .....	50-00-0	1,3,4	U122	100 (45.4)
Formic acid .....	64-18-6	1,4	U123	5000 (2270)
Fulminic acid, mercury(2+)-salt .....	628-86-4	4	P065	10 (4.54)
Fumaric acid .....	110-17-8	1		5000 (2270)
Furan .....	110-00-9	4	U124	100 (45.4)
2-Furancarboxaldehyde .....	98-01-1	1,4	U125	5000 (2270)
2,5-Furandione .....	108-31-6	1,3,4	U147	5000 (2270)
Furan, tetrahydro- .....	109-99-9	4	U213	1000 (454)
Furfural .....	98-01-1	1,4	U125	5000 (2270)
Furfuran .....	110-00-9	4	U124	100 (45.4)
Glucopyranose, 2-deoxy-2-(3-methyl-3-nitrosoureido)-, D- .....	18883-66-4	4	U206	1 (0.454)
D-Glucose, 2-deoxy-2-[[[(methylnitrosoamino)-carbonyl]amino]- .....	18883-66-4	4	U206	1 (0.454)
Glycidylaldehyde .....	765-34-4	4	U126	10 (4.54)
Glycol ethers <sup>d</sup> .....	N.A.	3		**
Guanidine, N-methyl-N'-nitro-N-nitroso- .....	70-25-7	4	U163	10 (4.54)
Guthion .....	86-50-0	1		1 (0.454)
HALOETHERS .....	N.A.	2		**
HALOMETHANES .....	N.A.	2		**
Heptachlor .....	76-44-8	1,2,3,4	P059	1 (0.454)
HEPTACHLOR AND METABOLITES .....	N.A.	2		**
Heptachlor epoxide .....	1024-57-3	2		1 (0.454)
Hexachlorobenzene .....	118-74-1	2,3,4	U127	10 (4.54)
Hexachlorobutadiene .....	87-68-3	2,3,4	U128	1 (0.454)
HEXACHLOROCYCLOHEXANE (all isomers) .....	608-73-1	2		**
Hexachlorocyclopentadiene .....	77-47-4	1,2,3,4	U130	10 (4.54)
Hexachloroethane .....	67-72-1	2,3,4	U131	100 (45.4)
Hexachlorophene .....	70-30-4	4	U132	100 (45.4)
Hexachloropropene .....	1888-71-7	4	U243	1000 (454)
Hexaethyl tetraphosphate .....	757-58-4	4	P062	100 (45.4)
Hexamethylene-1,6-diisocyanate .....	822-06-0	3		100 (45.4)
Hexamethylphosphoramide .....	680-31-9	3		1 (0.454)
Hexane .....	110-54-3	3		5000 (2270)
Hexone .....	108-10-1	3,4	U161	5000 (2270)
Hydrazine .....	302-01-2	3,4	U133	1 (0.454)
Hydrazinecarbothioamide .....	79-19-6	4	P116	100 (45.4)

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TABLE 302.4—LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued

[Note: All Comments/Notes Are Located at the End of This Table]

Hazardous substance	CASRN	Statutory codedagger;	RCRA waste No.	Final RQ pounds (Kg)
Hydrazine, 1,2-diethyl-	1615-80-1	4	U086	10 (4.54)
Hydrazine, 1,1-dimethyl-	57-14-7	3,4	U098	10 (4.54)
Hydrazine, 1,2-dimethyl-	540-73-8	4	U099	1 (0.454)
Hydrazine, 1,2-diphenyl-	122-66-7	2,3,4	U109	10 (4.54)
Hydrazine, methyl-	60-34-4	3,4	P068	10 (4.54)
Hydrochloric acid	7647-01-0	1,3		5000 (2270)
Hydrocyanic acid	74-90-8	1,4	P063	10 (4.54)
Hydrofluoric acid	7664-39-3	1,3,4	U134	100 (45.4)
Hydrogen chloride	7647-01-0	1,3		5000 (2270)
Hydrogen cyanide	74-90-8	1,4	P063	10 (4.54)
Hydrogen fluoride	7664-39-3	1,3,4	U134	100 (45.4)
Hydrogen phosphide	7803-51-2	3,4	P096	100 (45.4)
Hydrogen sulfide H2S	7783-06-4	1,4	U135	100 (45.4)
Hydroperoxide, 1-methyl-1-phenylethyl-	80-15-9	4	U096	10 (4.54)
Hydroquinone	123-31-9	3		100 (45.4)
2-Imidazolidinethione	96-45-7	3,4	U116	10 (4.54)
Indeno(1,2,3-cd)pyrene	193-39-5	2,4	U137	100 (45.4)
Iodomethane	74-88-4	3,4	U138	100 (45.4)
1,3-Isobenzofurandione	85-44-9	3,4	U190	5000 (2270)
Isobutyl alcohol	78-83-1	4	U140	5000 (2270)
Isodrin	465-73-6	4	P060	1 (0.454)
Isophorone	78-59-1	2,3		5000 (2270)
Isoprene	78-79-5	1		100 (45.4)
Isopropanolamine dodecylbenzenesulfonate	42504-46-1	1		1000 (454)
Isosafrole	120-58-1	4	U141	100 (45.4)
3(2H)-Isoxazolone, 5-(aminomethyl)-	2763-96-4	4	P007	1000 (454)
Kepon	143-50-0	1,4	U142	1 (0.454)
Lasiocarpine	303-34-4	4	U143	10 (4.54)
Lead††	7439-92-1	2		10 (4.54)
Lead acetate	301-04-2	1,4	U144	10 (4.54)
LEAD AND COMPOUNDS	N.A.	2,3		**
Lead arsenate	7784-40-9	1		1 (0.454)
	7645-25-2			
	10102-48-4			
Lead, bis(acetato-O)tetrahydroxytri-	1335-32-6	4	U146	10 (4.54)
Lead chloride	7758-95-4	1		10 (4.54)
Lead compounds	N.A.	2,3		**
Lead fluoborate	13814-96-5	1		10 (4.54)
Lead fluoride	7783-46-2	1		10 (4.54)
Lead iodide	10101-63-0	1		10 (4.54)
Lead nitrate	10099-74-8	1		10 (4.54)
Lead phosphate	7446-27-7	4	U145	10 (4.54)
Lead stearate	1072-35-1	1		10 (4.54)
	7428-48-0			
	52652-59-2			
	56189-09-4			
Lead subacetate	1335-32-6	4	U146	10 (4.54)
Lead sulfate	7446-14-2	1		10 (4.54)
	15739-80-7			
Lead sulfide	1314-87-0	1		10 (4.54)
Lead thiocyanate	592-87-0	1		10 (4.54)
Lindane	58-89-9	1,2,3,4	U129	1 (0.454)
Lindane (all isomers)	58-89-9	1,2,3,4	U129	1 (0.454)
Lithium chromate	14307-35-8	1		10 (4.54)
Malathion	121-75-5	1		100 (45.4)
Maleic acid	110-16-7	1		5000 (2270)
Maleic anhydride	108-31-6	1,3,4	U147	5000 (2270)
Maleic hydrazide	123-33-1	4	U148	5000 (2270)
Malononitrile	109-77-3	4	U149	1000 (454)
Manganese, bis(dimethylcarbamodithioato-S,S')-Manganese dimethylidithio-carbamate).	15339-36-3	4	P196	##
Manganese Compounds	N.A.	3		**
MDI	101-68-8	3		5000 (2270)
MEK	78-93-3	3,4	U159	5000 (2270)
Melphalan	148-82-3	4	U150	1 (0.454)
Mercaptodimethur	2032-65-7	1,4	P199	10 (4.54)
Mercuric cyanide	592-04-1	1		10 (4.54)
Mercuric nitrate	10045-94-0	1		10 (4.54)
Mercuric sulfate	7783-35-9	1		10 (4.54)



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TABLE 302.4—LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued

[Note: All Comments/Notes Are Located at the End of This Table]

Hazardous substance	CASRN	Statutory codedagger;	RCRA waste No.	Final RQ pounds (Kg)
Mercuric thiocyanate	592-85-8	1		10 (4.54)
Mercurous nitrate	10415-75-5	1	10 (4.54)	7782-86-7
Mercury	7439-97-6	2,3,4	U151	1 (0.454)
MERCURY AND COMPOUNDS	N.A.	2,3		**
Mercury, (acetato-O)phenyl-	62-38-4	4	P092	100 (45.4)
Mercury Compounds	N.A.	2,3		**
Mercury fulminate	628-86-4	4	P065	10 (4.54)
Methacrylonitrile	126-98-7	4	U152	1000 (454)
Methanamine, N-methyl-	124-40-3	1,4	U092	1000 (454)
Methanamine, N-methyl-N-nitroso-	62-75-9	2,3,4	P082	10 (4.54)
Methane, bromo-	74-83-9	2,3,4	U029	1000 (454)
Methane, chloro-	74-87-3	2,3,4	U045	100 (45.4)
Methane, chloromethoxy-	107-30-2	3,4	U046	10 (4.54)
Methane, dibromo-	74-95-3	4	U068	1000 (454)
Methane, dichloro-	75-09-2	2,3,4	U080	1000 (454)
Methane, dichlorodifluoro-	75-71-8	4	U075	5000 (2270)
Methane, iodo-	74-88-4	3,4	U138	100 (45.4)
Methane, isocyanato-	624-83-9	3,4	P064	10 (4.54)
Methane, oxybis(chloro-	542-88-1	2,3,4	P016	10 (4.54)
Methanesulfonyl chloride, trichloro-	594-42-3	4	P118	100 (45.4)
Methanesulfonic acid, ethyl ester	62-50-0	4	U119	1 (0.454)
Methane, tetrachloro-	56-23-5	1,2,3,4	U211	10 (4.54)
Methane, tetranitro-	509-14-8	4	P112	10 (4.54)
Methanethiol	74-93-1	1,4	U153	100 (45.4)
Methane, tribromo-	75-25-2	2,3,4	U225	100 (45.4)
Methane, trichloro-	67-66-3	1,2,3,4	U044	10 (4.54)
Methane, trichlorofluoro-	75-69-4	4	U121	5000 (2270)
Methanimidamide, N,N-dimethyl-N'-[3-[[[(methylamino)carbonyl]oxy]phenyl]-monohydrochloride (Formetanate hydrochloride).	23422-53-9	4	P198	##
Methanimidamide, N,N-dimethyl-N'-[2-methyl-4-[[[(methylamino)carbonyl]oxy]phenyl]-(Formparanate).	17702-57-7	4	P197	##
6,9-Methano-2,4,3-benzodioxathiepin, 6,7,8,9,10,10-hexachloro- 1,5,5a,6,9,9a-hexahydro-, 3-oxide.	115-29-7	1,2,4	P050	1 (0.454)
4,7-Methano-1H-indene, 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro-	76-44-8	1,2,3,4	P059	1 (0.454)
4,7-Methano-1H-indene, 1,2,4,5,6,7,8,8-octachloro-2,3,3a,4,7,7a-hexahydro—	57-74-9	1,2,3,4	U036	1 (0.454)
Methanol	67-56-1	3,4	U154	5000 (2270)
Methapyrilene	91-80-5	4	U155	5000 (2270)
1,3,4-Metheno-2H-cyclobuta[cd]pentalen-2-one, 1,1a,3,3a,4,5,5a,5b,6-decachlorooctahydro-	143-50-0	1,4	U142	1 (0.454)
Methiocarb	2032-65-7	1,4	P199	10 (4.54)
Methomyl	16752-77-5	4	P066	100 (45.4)
Methoxychlor	72-43-5	1,3,4	U247	1 (0.454)
Methyl alcohol	67-56-1	3,4	U154	5000 (2270)
2-Methyl aziridine	75-55-8	3,4	P067	1 (0.454)
Methyl bromide	74-83-9	2,3,4	U029	1000 (454)
1-Methylbutadiene	504-60-9	4	U186	100 (45.4)
Methyl chloride	74-87-3	2,3,4	U045	100 (45.4)
Methyl chlorocarbonate	79-22-1	4	U156	1000 (454)
Methyl chloroform	71-55-6	2,3,4	U226	1000 (454)
3-Methylcholanthrene	56-49-5	4	U157	10 (4.54)
4,4'-Methylenebis(2-chloroaniline)	101-14-4	3,4	U158	10 (4.54)
Methylene bromide	74-95-3	4	U068	1000 (454)
Methylene chloride	75-09-2	2,3,4	U080	1000 (454)
4,4'-Methylenedianiline	101-77-9	3		10 (4.54)
Methylene diphenyl diisocyanate	101-68-8	3		5000 (2270)
Methyl ethyl ketone	78-93-3	3,4	U159	5000 (2270)
Methyl ethyl ketone peroxide	1338-23-4	4	U160	10 (4.54)
Methyl hydrazine	60-34-4	3,4	P068	10 (4.54)
Methyl iodide	74-88-4	3,4	U138	100 (45.4)
Methyl isobutyl ketone	108-10-1	3,4	U161	5000 (2270)
Methyl isocyanate	624-83-9	3,4	P064	10 (4.54)
2-Methylacetonitrile	75-86-5	1,4	P069	10 (4.54)
Methyl mercaptan	74-93-1	1,4	U153	100 (45.4)
Methyl methacrylate	80-62-6	1,3,4	U162	1000 (454)
Methyl parathion	298-00-0	1,4	P071	100 (45.4)
4-Methyl-2-pentanone	108-10-1	3,4	U161	5000 (2270)

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TABLE 302.4—LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued

[Note: All Comments/Notes Are Located at the End of This Table]

Hazardous substance	CASRN	Statutory codedagger;	RCRA waste No.	Final RQ pounds (Kg)
Methyl tert-butyl ether .....	1634-04-4	3		1000 (454)
Methylthiouracil .....	56-04-2	4	U164	10 (4.54)
Mevinphos .....	7786-34-7	1		10 (4.54)
Mexacarbate .....	315-18-4	1,4	P128	1000 (454)
Mitomycin C .....	50-07-7	4	U010	10 (4.54)
MNNG .....	70-25-7	4	U163	10 (4.54)
Monoethylamine .....	75-04-7	1		100 (45.4)
Monomethylamine .....	74-89-5	1		100 (45.4)
Naled .....	300-76-5	1		10 (4.54)
5,12-Naphthacenedione, 8-acetyl-10-[(3-amino-2,3,6-trideoxy-alpha-L-lyxo-hexopyranosyloxy)-7,8,9,10-tetrahydro-6,8,11-trihydroxy-1-methoxy-, (8S-cis)-.	20830-81-3	4	U059	10 (4.54)
1-Naphthalenamine .....	134-32-7	4	U167	100 (45.4)
2-Naphthalenamine .....	91-59-8	4	U168	10 (4.54)
Naphthalenamine, N,N'-bis(2-chloroethyl)- .....	494-03-1	4	U026	100 (45.4)
Naphthalene .....	91-20-3	1,2,3,4	U165	100 (45.4)
Naphthalene, 2-chloro- .....	91-58-7	2,4	U047	5000 (2270)
1,4-Naphthalenedione .....	130-15-4	4	U166	5000 (2270)
2,7-Naphthalenedisulfonic acid, 3,3'-[(3,3'-dimethyl-(1,1'-biphenyl)-4,4'-diyl)-bis(azo)]bis(5-amino-4-hydroxy)-tetrasodium salt.	72-57-1	4	U236	10 (4.54)
1-Naphthalenol, methylcarbamate .....	63-25-2	1,3,4	U279	100 (45.4)
Naphthenic acid .....	1338-24-5	1		100 (45.4)
1,4-Naphthoquinone .....	130-15-4	4	U166	5000 (2270)
alpha-Naphthylamine .....	134-32-7	4	U167	100 (45.4)
beta-Naphthylamine .....	91-59-8	4	U168	10 (4.54)
alpha-Naphthylthiourea .....	86-88-4	4	P072	100 (45.4)
Nickel†† .....	7440-02-0	2		100 (45.4)
Nickel ammonium sulfate .....	15699-18-0	1		100 (45.4)
NICKEL AND COMPOUNDS .....	N.A.	2,3		**
Nickel carbonyl Ni(CO)4, (T-4) .....	13463-39-3	4	P073	10 (4.54)
Nickel chloride .....	7718-54-9	1		100 (45.4)
	37211-05-5			
Nickel compounds .....	N.A.	2,3		**
Nickel cyanide Ni(CN)2 .....	557-19-7	4	P074	10 (4.54)
Nickel hydroxide .....	12054-48-7	1		10 (4.54)
Nickel nitrate .....	14216-75-2	1		100 (45.4)
Nickel sulfate .....	7786-81-4	1		100 (45.4)
Nicotine, & salts .....	54-11-5	4	P075	100 (45.4)
Nitric acid .....	7697-37-2	1		1000 (454)
Nitric acid, thallium (1+) salt .....	10102-45-1	4	U217	100 (45.4)
Nitric oxide .....	10102-43-9	4	P076	10 (4.54)
p-Nitroaniline .....	100-01-6	4	P077	5000 (2270)
Nitrobenzene .....	98-95-3	1,2,3,4	U169	1000 (454)
4-Nitrobiphenyl .....	92-93-3	3		10 (4.54)
Nitrogen dioxide .....	10102-44-0	1,4	P078	10 (4.54)
	10544-72-6			
Nitrogen oxide NO .....	10102-43-9	4	P076	10 (4.54)
Nitrogen oxide NO2 .....	10102-44-0	1,4	P078	10 (4.54)
	10544-72-6			
Nitroglycerine .....	55-63-0	4	P081	10 (4.54)
Nitrophenol (mixed) .....	25154-55-6	1		100 (45.4)
m-Nitrophenol .....	554-84-7			
o-Nitrophenol .....	88-75-5	1,2		100 (45.4)
p-Nitrophenol .....	100-02-7	1,2,3,4	U170	100 (45.4)
2-Nitrophenol .....	88-75-5	1,2		100 (45.4)
4-Nitrophenol .....	100-02-7	1,2,3,4	U170	100 (45.4)
NITROPHENOLS .....	N.A.	2		**
2-Nitropropane .....	79-46-9	3,4	U171	10 (4.54)
NITROSAMINES .....	N.A.	2		**
N-Nitrosodi-n-butylamine .....	924-16-3	4	U172	10 (4.54)
N-Nitrosodiethanolamine .....	1116-54-7	4	U173	1 (0.454)
N-Nitrosodimethylamine .....	55-18-5	4	U174	1 (0.454)
N-Nitrosodimethylamine .....	62-75-9	2,3,4	P082	10 (4.54)
N-Nitrosodiphenylamine .....	86-30-6	2		100 (45.4)
N-Nitroso-N-ethylurea .....	759-73-9	4	U176	1 (0.454)
N-Nitroso-N-methylurea .....	684-93-5	3,4	U177	1 (0.454)
N-Nitroso-N-methylurethane .....	615-53-2	4	U178	1 (0.454)
N-Nitrosomethylvinylamine .....	4549-40-0	4	P084	10 (4.54)

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TABLE 302.4—LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued

[Note: All Comments/Notes Are Located at the End of This Table]

Hazardous substance	CASRN	Statutory codedagger;	RCRA waste No.	Final RQ pounds (Kg)
N-Nitrosomorpholine	59-89-2	3		1 (0.454)
N-Nitrosopiperidine	100-75-4	4	U179	10 (4.54)
N-Nitrosopyrrolidine	930-55-2	4	U180	1 (0.454)
Nitrotoluene	1321-12-6	1		1000 (454)
m-Nitrotoluene	99-08-1			
o-Nitrotoluene	88-72-2			
p-Nitrotoluene	99-99-0			
5-Nitro-o-toluidine	99-55-8	4	U181	100 (45.4)
Octamethylpyrophosphoramide	152-16-9	4	P085	100 (45.4)
Osmium oxide OsO <sub>4</sub> , (T-4)-	20816-12-0	4	P087	1000 (454)
Osmium tetroxide	20816-12-0	4	P087	1000 (454)
7-Oxabicyclo[2.2.1]heptane-2,3-dicarboxylic acid	145-73-3	4	P088	1000 (454)
1,2-Oxathiolane, 2,2-dioxide	1120-71-4	3,4	U193	10 (4.54)
2H-1,3,2-Oxazaphosphorin-2-amine, N,N-bis(2-chloroethyl)tetrahydro-, 2-oxide.	50-18-0	4	U058	10 (4.54)
Oxirane	75-21-8	3,4	U115	10 (4.54)
Oxiranecarboxyaldehyde	765-34-4	4	U126	10 (4.54)
Oxirane, (chloromethyl)-	106-89-8	1,3,4	U041	100 (45.4)
Paraformaldehyde	30525-89-4	1		1000 (454)
Paraldehyde	123-63-7	4	U182	1000 (454)
Parathion	56-38-2	1,3,4	P089	10 (4.54)
PCBs	1336-36-3	1,2,3		1 (0.454)
PCNB	82-68-8	3,4	U185	100 (45.4)
Pentachlorobenzene	608-93-5	4	U183	10 (4.54)
Pentachloroethane	76-01-7	4	U184	10 (4.54)
Pentachloronitrobenzene	82-68-8	3,4	U185	100 (45.4)
Pentachlorophenol	87-86-5	1,2,3,4	See F027	10 (4.54)
1,3-Pentadiene	504-60-9	4	U186	100 (45.4)
Perchloroethylene	127-18-4	2,3,4	U210	100 (45.4)
Phenacetin	62-44-2	4	U187	100 (45.4)
Phenanthrene	85-01-8	2		5000 (2270)
Phenol	108-95-2	1,2,3,4	U188	1000 (454)
Phenol, 2-chloro-	95-57-8	2,4	U048	100 (45.4)
Phenol, 4-chloro-3-methyl-	59-50-7	2,4	U039	5000 (2270)
Phenol, 2-cyclohexyl-4,6-dinitro-	131-89-5	4	P034	100 (45.4)
Phenol, 2,4-dichloro-	120-83-2	2,4	U081	100 (45.4)
Phenol, 2,6-dichloro-	87-65-0	4	U082	100 (45.4)
Phenol, 4,4'-(1,2-diethyl-1,2-ethenediyl)bis-, (E)	56-53-1	4	U089	1 (0.454)
Phenol, 2,4-dimethyl-	105-67-9	2,4	U101	100 (45.4)
Phenol, 4-(dimethylamino)-3,5-dimethyl-, methylcarbamate (ester).	315-18-4	1,4	P128	1000 (454)
Phenol, (3,5-dimethyl-4-(methylthio)-, methylcarbamate	2032-65-7	1,4	P199	10 (4.54)
Phenol, 2,4-dinitro-	51-28-5	1,2,3,4	P048	10 (4.54)
Phenol, methyl-	1319-77-3	1,3,4	U052	100 (45.4)
Phenol, 2-methyl-4,6-dinitro-, & salts	534-52-1	2,3,4	P047	10 (4.54)
Phenol, 2,2'-methylenebis[3,4,6- trichloro-	70-30-4	4	U132	100 (45.4)
Phenol, 2-(1-methylethoxy)-, methylcarbamate	114-26-1	3,4	U411	100 (45.4)
Phenol, 3-(1-methylethyl)-, methyl carbamate (m-Cumenyl methylcarbamate).	64-00-6	4	P202	##
Phenol, 3-methyl-5-(1-methylethyl)-, methyl carbamate (Promecarb).	2631-37-0	4	P201	##
Phenol, 2-(1-methylpropyl)-4,6-dinitro-	88-85-7	4	P020	1000 (454)
Phenol, 4-nitro-	100-02-7	1,2,3,4	U170	100 (45.4)
Phenol, pentachloro-	87-86-5	1,2,3,4	See F027	10 (4.54)
Phenol, 2,3,4,6-tetrachloro-	58-90-2	4	See F027	10 (4.54)
Phenol, 2,4,5-trichloro-	95-95-4	1,3,4	See F027	10 (4.54)
Phenol, 2,4,6-trichloro-	88-06-2	1,2,3,4	See F027	10 (4.54)
Phenol, 2,4,6-trinitro-, ammonium salt	131-74-8	4	P009	10 (4.54)
L-Phenylalanine, 4-[bis(2-chloroethyl)amino]-	148-82-3	4	U150	1 (0.454)
p-Phenylenediamine	106-50-3	3		5000 (2270)
Phenylmercury acetate	62-38-4	4	P092	100 (45.4)
Phenylthiourea	103-85-5	4	P093	100 (45.4)
Phorate	298-02-2	4	P094	10 (4.54)
Phosgene	75-44-5	1,3,4	P095	10 (4.54)
Phosphine	7803-51-2	3,4	P096	100 (45.4)
Phosphoric acid	7664-38-2	1		5000 (2270)
Phosphoric acid, diethyl 4-nitrophenyl ester	311-45-5	4	P041	100 (45.4)
Phosphoric acid, lead(2+) salt (2:3)	7446-27-7	4	U145	10 (4.54)
Phosphorodithioic acid, O,O-diethyl S-[2-(ethylthio)ethyl] ester.	298-04-4	1,4	P039	1 (0.454)

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TABLE 302.4—LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued

[Note: All Comments/Notes Are Located at the End of This Table]

Hazardous substance	CASRN	Statutory codedagger;	RCRA waste No.	Final RQ pounds (Kg)
Phosphorodithioic acid, O,O-diethyl S-[(ethylthio)methyl] ester.	298-02-2	4	P094	10 (4.54)
Phosphorodithioic acid, O,O-diethyl S-methyl ester .....	3288-58-2	4	U087	5000 (2270)
Phosphorodithioic acid, O,O-dimethyl S-[2(methylamino)-2-oxoethyl] ester.	60-51-5	4	P044	10 (4.54)
Phosphorofluoridic acid, bis(1-methylethyl) ester .....	55-91-4	4	P043	100 (45.4)
Phosphorothioic acid, O,O-diethyl O-(4-nitrophenyl) ester .....	56-38-2	1,3,4	P089	10 (4.54)
Phosphorothioic acid, O,O-diethyl O-pyrazinyl ester .....	297-97-2	4	P040	100 (45.4)
Phosphorothioic acid, O-[4-[(dimethylamino)sulfonyl]phenyl] O,O-dimethyl ester.	52-85-7	4	P097	1000 (454)
Phosphorothioic acid, O,O-dimethyl O-(4-nitrophenyl) ester.	298-00-0	1,4	P071	100 (45.4)
Phosphorus .....	7723-14-0	1,3		1 (0.454)
Phosphorus oxychloride .....	10025-87-3	1		1000 (454)
Phosphorus pentasulfide .....	1314-80-3	1,4	U189	100 (45.4)
Phosphorus sulfide .....	1314-80-3	1,4	U189	100 (45.4)
Phosphorus trichloride .....	7719-12-2	1		1000 (454)
PHTHALATE ESTERS .....	N.A.	2		**
Phthalic anhydride .....	85-44-9	3,4	U190	5000 (2270)
2-Picoline .....	109-06-8	4	U191	5000 (2270)
Piperidine, 1-nitroso- .....	100-75-4	4	U179	10 (4.54)
Plumbane, tetraethyl- .....	78-00-2	1,4	P110	10 (4.54)
POLYCHLORINATED BIPHENYLS .....	1336-36-3	1,2,3		1 (0.454)
Polycyclic Organic Matter <sup>5</sup> .....	N.A.	3		**
POLYNUCLEAR AROMATIC HYDROCARBONS .....	N.A.	2		**
Potassium arsenate .....	7784-41-0	1		1 (0.454)
Potassium arsenite .....	10124-50-2	1		1 (0.454)
Potassium bichromate .....	7778-50-9	1		10 (4.54)
Potassium chromate .....	7789-00-6	1		10 (4.54)
Potassium cyanide K(CN) .....	151-50-8	1,4	P098	10 (4.54)
Potassium hydroxide .....	1310-58-3	1		1000 (454)
Potassium permanganate .....	7722-64-7	1		100 (45.4)
Potassium silver cyanide .....	506-61-6	4	P099	1 (0.454)
Pronamide .....	23950-58-5	4	U192	5000 (2270)
Propanal, 2-methyl-2-(methylsulfonyl)-, O-[(methylamino)carbonyl] oxime (Aldicarb sulfone).	1646-88-4	4	P203	##
Propanal, 2-methyl-2-(methylthio)-, O-[(methylamino)carbonyl]oxime.	116-06-3	4	P070	1 (0.454)
1-Propanamine .....	107-10-8	4	U194	5000 (2270)
1-Propanamine, N-propyl- .....	142-84-7	4	U110	5000 (2270)
1-Propanamine, N-nitroso-N-propyl- .....	621-64-7	2,4	U111	10 (4.54)
Propane, 1,2-dibromo-3-chloro- .....	96-12-8	3,4	U066	1 (0.454)
Propane, 1,2-dichloro- .....	78-87-5	1,2,3,4	U083	1000 (454)
Propanedinitrile .....	109-77-3	4	U149	1000 (454)
Propanenitrile .....	107-12-0	4	P101	10 (4.54)
Propanenitrile, 3-chloro- .....	542-76-7	4	P027	1000 (454)
Propanenitrile, 2-hydroxy-2-methyl- .....	75-86-5	1,4	P069	10 (4.54)
Propane, 2-nitro- .....	79-46-9	3,4	U171	10 (4.54)
Propane, 2,2'-oxybis[2-chloro- .....	108-60-1	2,4	U027	1000 (454)
1,3-Propane sultone .....	1120-71-4	3,4	U193	10 (4.54)
1,2,3-Propanetriol, trinitrate .....	55-63-0	4	P081	10 (4.54)
Propanoic acid, 2-(2,4,5-trichlorophenoxy)- .....	93-72-1	1,4	See F027	100 (45.4)
1-Propanol, 2,3-dibromo-, phosphate (3:1) .....	126-72-7	4	U235	10 (4.54)
1-Propanol, 2-methyl- .....	78-83-1	4	U140	5000 (2270)
2-Propanone .....	67-64-1	4	U002	5000 (2270)
2-Propanone, 1-bromo- .....	598-31-2	4	P017	1000 (454)
Propargite .....	2312-35-8	1		10 (4.54)
Propargyl alcohol .....	107-19-7	4	P102	1000 (454)
2-Propenal .....	107-02-8	1,2,3,4	P003	1 (0.454)
2-Propenamide .....	79-06-1	3,4	U007	5000 (2270)
1-Propene, 1,3-dichloro- .....	542-75-6	1,2,3,4	U084	100 (45.4)
1-Propene, 1,1,2,3,3,3-hexachloro- .....	1888-71-7	4	U243	1000 (454)
2-Propenenitrile .....	107-13-1	1,2,3,4	U009	100 (45.4)
2-Propenenitrile, 2-methyl- .....	126-98-7	4	U152	1000 (454)
2-Propenoic acid .....	79-10-7	3,4	U008	5000 (2270)
2-Propenoic acid, ethyl ester .....	140-88-5	3,4	U113	1000 (454)
2-Propenoic acid, 2-methyl-, ethyl ester .....	97-63-2	4	U118	1000 (454)
2-Propenoic acid, 2-methyl-, methyl ester .....	80-62-6	1,3,4	U162	1000 (454)
2-Propen-1-ol .....	107-18-6	1,4	P005	100 (45.4)

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TABLE 302.4—LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued

[Note: All Comments/Notes Are Located at the End of This Table]

Hazardous substance	CASRN	Statutory codedagger;	RCRA waste No.	Final RQ pounds (Kg)
beta-Propiolactone	57-57-8	3		10 (4.54)
Propionaldehyde	123-38-6	3	1000 (454)	
Propionic acid	79-09-4	1		5000 (2270)
Propionic anhydride	123-62-6	1		5000 (2270)
Propoxur (Baygon)	114-26-1	3,4	U411	100 (45.4)
n-Propylamine	107-10-8	4	U194	5000 (2270)
Propylene dichloride	78-87-5	1,2,3,4	U083	1000 (454)
Propylene oxide	75-56-9	1,3		100 (45.4)
1,2-Propylenimine	75-55-8	3,4	P067	1 (0.454)
2-Propyn-1-ol	107-19-7	4	P102	1000 (454)
Pyrene	129-00-0	2		5000 (2270)
Pyrethrins	121-29-9	1		1 (0.454)
	121-21-1			
	8003-34-7			
3,6-Pyridazinedione, 1,2-dihydro-	123-33-1	4	U148	5000 (2270)
4-Pyridinamine	504-24-5	4	P008	1000 (454)
Pyridine	110-86-1	4	U196	1000 (454)
Pyridine, 2-methyl-	109-06-8	4	U191	5000 (2270)
Pyridine, 3-(1-methyl-2-pyrrolidinyl)-, (S)-, & salts	54-11-5	4	P075	100 (45.4)
2,4-(1H,3H)-Pyrimidinedione, 5-[bis(2-chloroethyl)amino]-	66-75-1	4	U237	10 (4.54)
4(1H)-Pyrimidinone, 2,3-dihydro-6-methyl-2-thioxo-	56-04-2	4	U164	10 (4.54)
Pyrrolidine, 1-nitroso-	930-55-2	4	U180	1 (0.454)
Pyrrolo[2,3-b] indol-5-ol, 1,2,3,3a,8,8a-hexahydro-1,3a,8-trimethyl-, methylcarbamate (ester), (3aS-cis)-(Physostigmine).	57-47-6	4	P204	##
Quinoline	91-22-5	1,3		5000 (2270)
Quinone	106-51-4	3,4	U197	10 (4.54)
Quintobenzene	82-68-8	3,4	U185	100 (45.4)
Radionuclides (including radon)	N.A.	3		§
Reserpine	50-55-5	4	U200	5000 (2270)
Resorcinol	108-46-3	1,4	U201	5000 (2270)
Saccharin, & salts	81-07-2	4	U202	100 (45.4)
Safrole	94-59-7	4	U203	100 (45.4)
Selenious acid	7783-00-8	4	U204	10 (4.54)
Selenious acid, dithallium (1+) salt	12039-52-0	4	P114	1000 (454)
Seleniumdagger;dagger;	7782-49-2	2		100 (45.4)
SELENIUM AND COMPOUNDS	N.A.	2,3		**
Selenium Compounds	N.A.	2,3		**
Selenium dioxide	7446-08-4	1,4	U204	10 (4.54)
Selenium oxide	7446-08-4	1,4	U204	10 (4.54)
Selenium sulfide SeS2	7488-56-4	4	U205	10 (4.54)
Selenourea	630-10-4	4	P103	1000 (454)
L-Serine, diazoacetate (ester)	115-02-6	4	U015	1 (0.454)
Silver dagger;dagger;	7440-22-4	2		1000 (454)
SILVER AND COMPOUNDS	N.A.	2		**
Silver cyanide Ag(CN)	506-64-9	4	P104	1 (0.454)
Silver nitrate	7761-88-8	1		1 (0.454)
Silvex (2,4,5-TP)	93-72-1	1,4	See F027	100 (45.4)
Sodium	7440-23-5	1		10 (4.54)
Sodium arsenate	7631-89-2	1		1 (0.454)
Sodium arsenite	7784-46-5	1		1 (0.454)
Sodium azide	26628-22-8	4	P105	1000 (454)
Sodium bichromate	10588-01-9	1		10 (4.54)
Sodium bifluoride	1333-83-1	1		100 (45.4)
Sodium bisulfite	7631-90-5	1		5000 (2270)
Sodium chromate	7775-11-3	1		10 (4.54)
Sodium cyanide Na(CN)	143-33-9	1,4	P106	10 (4.54)
Sodium dodecylbenzenesulfonate	25155-30-0	1		1000 (454)
Sodium fluoride	7681-49-4	1		1000 (454)
Sodium hydrosulfide	16721-80-5	1		5000 (2270)
Sodium hydroxide	1310-73-2	1		1000 (454)
Sodium hypochlorite	7681-52-9	1		100 (45.4)
	10022-70-5			
Sodium methylate	124-41-4	1		1000 (454)
Sodium nitrite	7632-00-0	1		100 (45.4)
Sodium phosphate, dibasic	7558-79-4	1		5000 (2270)
	10039-32-4			
	10140-65-5			

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TABLE 302.4—LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued

[Note: All Comments/Notes Are Located at the End of This Table]

Hazardous substance	CASRN	Statutory codedagger;	RCRA waste No.	Final RQ pounds (Kg)
Sodium phosphate, tribasic .....	7601-54-9 7758-29-4 7785-84-4 10101-89-0 10124-56-8 10361-89-4	1		5000 (2270)
Sodium selenite .....	7782-82-3 10102-18-8	1		100 (45.4)
Streptozotocin .....	18883-66-4	4	U206	1 (0.454)
Strontium chromate .....	7789-06-2	1		10 (4.54)
Strychnidin-10-one, & salts .....	57-24-9	1,4	P108	10 (4.54)
Strychnidin-10-one, 2,3-dimethoxy- .....	357-57-3	4	P018	100 (45.4)
Strychnine, & salts .....	57-24-9	1,4	P108	10 (4.54)
Styrene .....	100-42-5	1,3		1000 (454)
Styrene oxide .....	96-09-3	3		100 (45.4)
Sulfuric acid .....	7664-93-9 8014-95-7	1		1000 (454)
Sulfuric acid, dimethyl ester .....	77-78-1	3,4	U103	100 (45.4)
Sulfuric acid, dithallium (1+) salt .....	7446-18-6 10031-59-1	1,4	P115	100 (45.4)
Sulfur monochloride .....	12771-08-3	1		1000 (454)
Sulfur phosphide .....	1314-80-3	1,4	U189	100 (45.4)
2,4,5-T .....	93-76-5	1,4	See F027	1000 (454)
2,4,5-T acid .....	93-76-5	1,4	See F027	1000 (454)
2,4,5-T amines .....	2008-46-0 1319-72-8 3813-14-7 6369-96-6 6369-97-7	1		5000 (2270)
2,4,5-T esters .....	93-79-8 1928-47-8 2545-59-7 25168-15-4 61792-07-2	1		1000 (454)
2,4,5-T salts .....	13560-99-1	1		1000 (454)
TCDD .....	1746-01-6	2,3		1 (0.454)
TDE .....	72-54-8	1,2,4	U060	1 (0.454)
1,2,4,5-Tetrachlorobenzene .....	95-94-3	4	U207	5000 (2270)
2,3,7,8-Tetrachlorodibenzo-p-dioxin .....	1746-01-6	2,3		1 (0.454)
1,1,1,2-Tetrachloroethane .....	630-20-6	4	U208	100 (45.4)
1,1,2,2-Tetrachloroethane .....	79-34-5	2,3,4	U209	100 (45.4)
Tetrachloroethylene .....	127-18-4	2,3,4	U210	100 (45.4)
2,3,4,6-Tetrachlorophenol .....	58-90-2	4	See F027	10 (4.54)
Tetraethyl pyrophosphate .....	107-49-3	1,4	P111	10 (4.54)
Tetraethyl lead .....	78-00-2	1,4	P110	10 (4.54)
Tetraethyldithiopyrophosphate .....	3689-24-5	4	P109	100 (45.4)
Tetrahydrofuran .....	109-99-9	4	U213	1000 (454)
Tetranitromethane .....	509-14-8	4	P112	10 (4.54)
Tetraphosphoric acid, hexaethyl ester .....	757-58-4	4	P062	100 (45.4)
Thallic oxide .....	1314-32-5	4	P113	100 (45.4)
Thallium dagger;dagger; .....	7440-28-0	2		1000 (454)
THALLIUM AND COMPOUNDS .....	N.A.	2		**
Thallium (I) acetate .....	563-68-8	4	U214	100 (45.4)
Thallium (I) carbonate .....	6533-73-9	4	U215	100 (45.4)
Thallium chloride TlCl .....	7791-12-0	4	U216	100 (45.4)
Thallium (I) nitrate .....	10102-45-1	4	U217	100 (45.4)
Thallium oxide Tl2O3 .....	1314-32-5	4	P113	100 (45.4)
Thallium (I) selenite .....	12039-52-0	4	P114	1000 (454)
Thallium (I) sulfate .....	7446-18-6 10031-59-1	1,4	P115	100 (45.4)
Thioacetamide .....	62-55-5	4	U218	10 (4.54)
Thiodiphosphoric acid, tetraethyl ester .....	3689-24-5	4	P109	100 (45.4)
Thiofanox .....	39196-18-4	4	P045	100 (45.4)
Thioimidodicarbonic diamide [(H2N)C(S)] 2NH .....	541-53-7	4	P049	100 (45.4)
Thiomethanol .....	74-93-1	1,4	U153	100 (45.4)
Thioperoxydicarbonic diamide [(H2N)C(S)] 2S2, tetramethyl- .....	137-26-8	4	U244	10 (4.54)
Thiophenol .....	108-98-5	4	P014	100 (45.4)
Thiosemicarbazide .....	79-19-6	4	P116	100 (45.4)

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TABLE 302.4—LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued

[Note: All Comments/Notes Are Located at the End of This Table]

Hazardous substance	CASRN	Statutory codedagger;	RCRA waste No.	Final RQ pounds (Kg)
Thiourea .....	62-56-6	4	U219	10 (4.54)
Thiourea, (2-chlorophenyl)- .....	5344-82-1	4	P026	100 (45.4)
Thiourea, 1-naphthalenyl- .....	86-88-4	4	P072	100 (45.4)
Thiourea, phenyl- .....	103-85-5	4	P093	100 (45.4)
Thiram .....	137-26-8	4	U244	10 (4.54)
Titanium tetrachloride .....	7550-45-0	3		1,2,41000 (454)
Toluene .....	108-88-3	1,2,3,4	U220	1000 (454)
Toluenediamine .....	95-80-7	3,4	U221	10 (4.54)
	496-72-0			
	823-40-5			
	25376-45-8			
2,4-Toluene diamine .....	95-80-7	3,4	U221	10 (4.54)
	496-72-0			
	823-40-5			
	25376-45-8			
Toluene diisocyanate .....	91-08-7	3,4	U223	100 (45.4)
	584-84-9			
	26471-62-5			
2,4-Toluene diisocyanate .....	91-08-7	3,4	U223	100 (45.4)
	584-84-9			
	26471-62-5			
o-Toluidine .....	95-53-4	3,4	U328	100 (45.4)
p-Toluidine .....	106-49-0	4	U353	100 (45.4)
o-Toluidine hydrochloride .....	636-21-5	4	U222	100 (45.4)
Toxaphene .....	8001-35-2	1,2,3,4	P123	1 (0.454)
2,4,5-TP acid .....	93-72-1	1,4	See F027	100 (45.4)
2,4,5-TP esters .....	32534-95-5	1		100 (45.4)
1H-1,2,4-Triazol-3-amine .....	61-82-5	4	U011	10 (4.54)
Trichlorfon .....	52-68-6	1		100 (45.4)
1,2,4-Trichlorobenzene .....	120-82-1	2,3		100 (45.4)
1,1,1-Trichloroethane .....	71-55-6	2,3,4	U226	1000 (454)
1,1,2-Trichloroethane .....	79-00-5	2,3,4	U227	100 (45.4)
Trichloroethylene .....	79-01-6	1,2,3,4	U228	100 (45.4)
Trichloromethanesulfonyl chloride .....	594-42-3	4	P118	100 (45.4)
Trichloromonofluoromethane .....	75-69-4	4	U121	5000 (2270)
Trichlorophenol .....	25167-82-2	1		10 (4.54)
2,3,4-Trichlorophenol .....	15950-66-0			
2,3,5-Trichlorophenol .....	933-78-8			
2,3,6-Trichlorophenol .....	933-75-5			
3,4,5-Trichlorophenol .....	609-19-8			
2,4,5-Trichlorophenol .....	95-95-4	1,3,4	See F027	10 (4.54)
2,4,6-Trichlorophenol .....	88-06-2	1,2,3,4	See F027	10 (4.54)
Triethanolamine dodecylbenzenesulfonate .....	27323-41-7	1		1000 (454)
Triethylamine .....	121-44-8	1,3,4	U404	5000 (2270)
Trifluralin .....	1582-09-8	3		10 (4.54)
Trimethylamine .....	75-50-3	1		100 (45.4)
2,2,4-Trimethylpentane .....	540-84-1	3		1000 (454)
1,3,5-Trinitrobenzene .....	99-35-4	4	U234	10 (4.54)
1,3,5-Trioxane, 2,4,6-trimethyl- .....	123-63-7	4	U182	1000 (454)
Tris(2,3-dibromopropyl) phosphate .....	126-72-7	4	U235	10 (4.54)
Trypan blue .....	72-57-1	4	U236	10 (4.54)
Unlisted Hazardous Wastes Characteristic of Corrosivity ..	N.A.	4	D002	100 (45.4)
Unlisted Hazardous Wastes Characteristic of Ignitability ..	N.A.	4	D001	100 (45.4)
Unlisted Hazardous Wastes Characteristic of Reactivity ...	N.A.	4	D003	100 (45.4)
Unlisted Hazardous Wastes Characteristic of Toxicity:				
Arsenic (D004) .....	N.A.	4	D004	1 (0.454)
Barium (D005) .....	N.A.	4	D005	1000 (454)
Benzene (D018) .....	N.A.	1,2,3,4	D018	10 (4.54)
Cadmium (D006) .....	N.A.	4	D006	10 (4.54)
Carbon tetrachloride (D019) .....	N.A.	1,2,4	D019	10 (4.54)
Chlordane (D020) .....	N.A.	1,2,4	D020	1 (0.454)
Chlorobenzene (D021) .....	N.A.	1,2,4	D021	100 (45.4)
Chloroform (D022) .....	N.A.	1,2,4	D022	10 (4.54)
Chromium (D007) .....	N.A.	4	D007	10 (4.54)
o-Cresol (D023) .....	N.A.	4	D023	100 (45.4)
m-Cresol (D024) .....	N.A.	4	D024	100 (45.4)
p-Cresol (D025) .....	N.A.	4	D025	100 (45.4)
Cresol (D026) .....	N.A.	4	D026	100 (45.4)

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TABLE 302.4—LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued

[Note: All Comments/Notes Are Located at the End of This Table]

Hazardous substance	CASRN	Statutory codedagger;	RCRA waste No.	Final RQ pounds (Kg)
2,4-D (D016)	N.A.	1,4	D016	100 (45.4)
1,4-Dichlorobenzene (D027)	N.A.	1,2,4	D027	100 (45.4)
1,2-Dichloroethane (D028)	N.A.	1,2,4	D028	100 (45.4)
1,1-Dichloroethylene (D029)	N.A.	1,2,4	D029	100 (45.4)
2,4-Dinitrotoluene (D030)	N.A.	1,2,4	D030	10 (4.54)
Endrin (D012)	N.A.	1,4	D012	1 (0.454)
Heptachlor (and epoxide) (D031)	N.A.	1,2,4	D031	1 (0.454)
Hexachlorobenzene (D032)	N.A.	2,4	D032	10 (4.54)
Hexachlorobutadiene (D033)	N.A.	2,4	D033	1 (0.454)
Hexachloroethane (D034)	N.A.	2,4	D034	100 (45.4)
Lead (D008)	N.A.	4	D008	10 (4.54)
Lindane (D013)	N.A.	1,4	D013	1 (0.454)
Mercury (D009)	N.A.	4	D009	1 (0.454)
Methoxychlor (D014)	N.A.	1,4	D014	1 (0.454)
Methyl ethyl ketone (D035)	N.A.	4	D035	5000 (2270)
Nitrobenzene (D036)	N.A.	1,2,4	D036	1000 (454)
Pentachlorophenol (D037)	N.A.	1,2,4	D037	10 (4.54)
Pyridine (D038)	N.A.	4	D038	1000 (454)
Selenium (D010)	N.A.	4	D010	10 (4.54)
Silver (D011)	N.A.	4	D011	1 (0.454)
Tetrachloroethylene (D039)	N.A.	2,4	D039	100 (45.4)
Toxaphene (D015)	N.A.	1,4	D015	1 (0.454)
Trichloroethylene (D040)	N.A.	1,2,4	D040	100 (45.4)
2,4,5-Trichlorophenol (D041)	N.A.	1,4	D041	10 (4.54)
2,4,6-Trichlorophenol (D042)	N.A.	1,2,4	D042	10 (4.54)
2,4,5-TP (D017)	N.A.	1,4	D017	100 (45.4)
Vinyl chloride (D043)	N.A.	2,3,4	D043	1 (0.454)
Uracil mustard	66-75-1	4	U237	10 (4.54)
Uranyl acetate	541-09-3	1		100 (45.4)
Uranyl nitrate	10102-06-4	1		100 (45.4)
	36478-76-9			
Urea, N-ethyl-N-nitroso-	759-73-9	4	U176	1 (0.454)
Urea, N-methyl-N-nitroso-	684-93-5	3,4	U177	1 (0.454)
Urethane	51-79-6	3,4	U238	100 (45.4)
Vanadic acid, ammonium salt	7803-55-6	4	P119	1000 (454)
Vanadium oxide V2O5	1314-62-1	1,4	P120	1000 (454)
Vanadium pentoxide	1314-62-1	1,4	P120	1000 (454)
Vanadyl sulfate	27774-13-6	1		1000 (454)
Vinyl acetate	108-05-4	1,3		5000 (2270)
Vinyl acetate monomer	108-05-4	1,3		5000 (2270)
Vinylamine, N-methyl-N-nitroso-	4549-40-0	4	P084	10 (4.54)
Vinyl bromide	593-60-2	3		100 (45.4)
Vinyl chloride	75-01-4	2,3,4	U043	1 (0.454)
Vinylidene chloride	75-35-4	1,2,3,4	U078	100 (45.4)
Warfarin, & salts	81-81-2	4	P001, U248	100 (45.4)
Xylene	1330-20-7	1,3,4	U239	100 (45.4)
m-Xylene	108-38-3	3		1000 (454)
o-Xylene	95-47-6	3		1000 (454)
p-Xylene	106-42-3	3		100 (45.4)
Xylene (mixed)	1330-20-7	1,3,4	U239	100 (45.4)
Xylenes (isomers and mixture)	1330-20-7	1,3,4	U239	100 (45.4)
Xylenol	1300-71-6	1		1000 (454)
Yohimban-16-carboxylic acid, 11,17-dimethoxy-18-[(3,4,5-trimethoxybenzoyl)oxy]-, methyl ester (3beta,16beta,17alpha, 18beta,20alpha).	50-55-54	4	U200	5000 (2270)
Zinc dagger,dagger;	7440-66-6	2		1000 (454)
ZINC AND COMPOUNDS	N.A.	2		**
Zinc acetate	557-34-6	1		1000 (454)
Zinc ammonium chloride	52628-25-8	1		1000 (454)
	14639-97-5			
	14639-98-6			
Zinc, bis(dimethylcarbomodiithioato-S,S)-, (Ziram)	137-30-4	4	P205	##
Zinc borate	1332-07-6	1		1000 (454)
Zinc bromide	7699-45-8	1		1000 (454)
Zinc carbonate	3486-35-9	1		1000 (454)
Zinc chloride	7646-85-7	1		1000 (454)
Zinc cyanide Zn(CN)2	557-21-1	1,4	P121	10 (4.54)
Zinc fluoride	7783-49-5	1		1000 (454)
Zinc formate	557-41-5	1		1000 (454)



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TABLE 302.4—LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued

[Note: All Comments/Notes Are Located at the End of This Table]

Hazardous substance	CASRN	Statutory codedagger;	RCRA waste No.	Final RQ pounds (Kg)
Zinc hydrosulfite .....	7779-86-4	1		1000 (454)
Zinc nitrate .....	7779-88-6	1		1000 (454)
Zinc phenolsulfonate .....	127-82-2	1		5000 (2270)
Zinc phosphide Zn3P2 .....	1314-84-7	1,4	P122, U249	100 (45.4)
Zinc silicofluoride .....	16871-71-9	1		5000 (2270)
Zinc sulfate .....	7733-02-0	1		1000 (454)
Zirconium nitrate .....	13746-89-9	1		5000 (2270)
Zirconium potassium fluoride .....	16923-95-8	1		1000 (454)
Zirconium sulfate .....	14644-61-2	1		5000 (2270)
Zirconium tetrachloride .....	10026-11-6	1		5000 (2270)
F001 .....		4	F001	10 (4.54)
The following spent halogenated solvents used in degreasing; all spent solvent mixtures/blends used in degreasing containing, before use, a total of ten percent or more (by volume) of one or more of the halogenated solvents listed below or those solvents listed in F002, F004, and F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures.				
(a) Tetrachloroethylene .....	127-18-4	2,3,4	U210	100 (45.4)
(b) Trichloroethylene .....	79-01-6	1,2,3,4	U228	100 (45.4)
(c) Methylene chloride .....	75-09-2	2,3,4	U080	1000 (454)
(d) 1,1,1-Trichloroethane .....	71-55-6	2,3,4	U226	1000 (454)
(e) Carbon tetrachloride .....	56-23-5	1,2,3,4	U211	10 (4.54)
(f) Chlorinated fluorocarbons .....	N.A.			5000 (2270)
F002 .....		4	F002	10 (4.54)
The following spent halogenated solvents; all spent solvent mixtures/blends containing, before use, a total of ten percent or more (by volume) of one or more of the halogenated solvents listed below or those solvents listed in F001, F004, or F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures.				
(a) Tetrachloroethylene .....	127-18-4	2,3,4	U210	100 (45.4)
(b) Methylene chloride .....	75-09-2	2,3,4	U080	1000 (454)
(c) Trichloroethylene .....	79-01-6	1,2,3,4	U228	100 (45.4)
(d) 1,1,1-Trichloroethane .....	71-55-6	2,3,4	U226	1000 (454)
(e) Chlorobenzene .....	108-90-7	1,2,3,4	U037	100 (45.4)
(f) 1,1,2-Trichloro-1,2,2-trifluoroethane .....	76-13-1			5000 (2270)
(g) o-Dichlorobenzene .....	95-50-1	1,2,4	U070	100 (45.4)
(h) Trichlorofluoromethane .....	75-69-4	4	U121	5000 (2270)
(i) 1,1,2-Trichloroethane .....	79-00-5	2,3,4	U227	100 (45.4)
F003 .....		4	F003	100 (45.4)
The following spent non-halogenated solvents and the still bottoms from the recovery of these solvents.				
(a) Xylene .....	1330-20-7			1000 (454)
(b) Acetone .....	67-64-1			5000 (2270)
(c) Ethyl acetate .....	141-78-6			5000 (2270)
(d) Ethylbenzene .....	100-41-4			1000 (454)
(e) Ethyl ether .....	60-29-7			100 (45.4)
(f) Methyl isobutyl ketone .....	108-10-1			5000 (2270)
(g) n-Butyl alcohol .....	71-36-3			5000 (2270)
(h) Cyclohexanone .....	108-94-1			5000 (2270)
(i) Methanol .....	67-56-1			5000 (2270)
F004 .....		4	F004	100 (45.4)
The following spent non-halogenated solvents and the still bottoms from the recovery of these solvents:				
(a) Cresols/Cresylic acid .....	1319-77-3	1,3,4	U052	100 (45.4)
(b) Nitrobenzene .....	98-95-3	1,2,3,4	U169	1000 (454)
F005 .....		4	F005	100 (45.4)
The following spent non-halogenated solvents and the still bottoms from the recovery of these solvents:				
(a) Toluene .....	108-88-3	1,2,3,4	U220	1000 (454)
(b) Methyl ethyl ketone .....	78-93-3	3,4	U159	5000 (2270)
(c) Carbon disulfide .....	75-15-0	1,3,4	P022	100 (45.4)
(d) Isobutanol .....	78-83-1	4	U140	5000 (2270)
(e) Pyridine .....	110-86-1	4	U196	1000 (454)
F006 .....		4	F006	10 (4.54)

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TABLE 302.4—LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued

[Note: All Comments/Notes Are Located at the End of This Table]

Hazardous substance	CASRN	Statutory codedagger;	RCRA waste No.	Final RQ pounds (Kg)
Wastewater treatment sludges from electroplating operations except from the following processes: (1) sulfuric acid anodizing of aluminum, (2) tin plating on carbon steel, (3) zinc plating (segregated basis) on carbon steel, (4) aluminum or zinc-aluminum plating on carbon steel, (5) cleaning/stripping associated with tin, zinc and aluminum plating on carbon steel, and (6) chemical etching and milling of aluminum.				
F007 ..... Spent cyanide plating bath solutions from electroplating operations.		4	F007	10 (4.54)
F008 ..... Plating bath residues from the bottom of plating baths from electroplating operations where cyanides are used in the process.		4	F008	10 (4.54)
F009 ..... Spent stripping and cleaning bath solutions from electroplating operations where cyanides are used in the process.		4	F009	10 (4.54)
F010 ..... Quenching bath residues from oil baths from metal heat treating operations where cyanides are used in the process.		4	F010	10 (4.54)
F011 ..... Spent cyanide solutions from salt bath pot cleaning from metal heat treating operations.		4	F011	10 (4.54)
F012 ..... Quenching wastewater treatment sludges from metal heat treating operations where cyanides are used in the process.		4	F012	10 (4.54)
F019 ..... Wastewater treatment sludges from the chemical conversion coating of aluminum except from zirconium phosphating in aluminum can washing when such phosphating is an exclusive conversion coating process.		4	F019	10 (4.54)
F020 ..... Wastes (except wastewater and spent carbon from hydrogen chloride purification) from the production or manufacturing use (as a reactant, chemical intermediate, or component in a formulating process) of tri- or tetrachlorophenol or of intermediates used to produce their pesticide derivatives. (This listing does not include wastes from the production of hexachlorophene from highly purified 2,4,5-trichlorophenol.)		4	F020	1 (0.454)
F021 ..... Wastes (except wastewater and spent carbon from hydrogen chloride purification) from the production or manufacturing use (as a reactant, chemical intermediate, or component in a formulating process) of pentachlorophenol or of intermediates used to produce its derivatives.		4	F021	1 (0.454)
F022 ..... Wastes (except wastewater and spent carbon from hydrogen chloride purification) from the manufacturing use (as a reactant, chemical intermediate, or component in a formulating process) of tetra-, penta-, or hexachlorobenzenes under alkaline conditions.		4	F022	1 (0.454)
F023 ..... Wastes (except wastewater and spent carbon from hydrogen chloride purification) from the production of materials on equipment previously used for the production or manufacturing use (as a reactant, chemical intermediate, or a component in a formulating process) of tri- and tetrachlorophenols. (This listing does not include wastes from equipment used only for the production or use of hexachlorophene from highly purified 2,4,5-trichlorophenol.)		4	F023	1 (0.454)
F024 ..... Wastes (except wastewater and spent carbon from hydrogen chloride purification) from the production of materials on equipment previously used for the production or manufacturing use (as a reactant, chemical intermediate, or a component in a formulating process) of tri- and tetrachlorophenols. (This listing does not include wastes from equipment used only for the production or use of hexachlorophene from highly purified 2,4,5-trichlorophenol.)		4	F024	1 (0.454)

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**TABLE 302.4—LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued**

[Note: All Comments/Notes Are Located at the End of This Table]

Hazardous substance	CASRN	Statutory codedagger;	RCRA waste No.	Final RQ pounds (Kg)
Process wastes, including but not limited to, distillation residues, heavy ends, tars, and reactor clean-out wastes, from the production of certain chlorinated aliphatic hydrocarbons by free radical catalyzed processes. These chlorinated aliphatic hydrocarbons are those having carbon chain lengths ranging from one to and including five, with varying amounts and positions of chlorine substitution. (This listing does not include wastewaters, wastewater treatment sludges, spent catalysts, and wastes listed in 40 CFR 261.31 or 261.32.)				
F025 .....		4	F025	1 (0.454)
Condensed light ends, spent filters and filter aids, and spent desiccant wastes from the production of certain chlorinated aliphatic hydrocarbons, by free radical catalyzed processes. These chlorinated aliphatic hydrocarbons are those having carbon chain lengths ranging from one to and including five, with varying amounts and positions of chlorine substitution.				
F026 .....		4	F026	1 (0.454)
Wastes (except wastewater and spent carbon from hydrogen chloride purification) from the production of materials on equipment previously used for the manufacturing use (as a reactant, chemical intermediate, or component in a formulating process) of tetra-, penta-, or hexachlorobenzene under alkaline conditions.				
F027 .....		4	F027	1 (0.454)
Discarded unused formulations containing tri-, tetra-, or pentachlorophenol or discarded unused formulations containing compounds derived from these chlorophenols. (This listing does not include formulations containing hexachlorophene synthesized from prepurified 2,4,5- trichlorophenol as the sole component.)				
F028 .....		4	F028	1 (0.454)
Residues resulting from the incineration or thermal treatment of soil contaminated with EPA Hazardous Waste Nos. F020, F021, F022, F023, F026, and F027.				
F032 .....		4	F032	1 (0.454)
Wastewaters (except those that have not come into contact with process contaminants), process residuals, preservative drippage, and spent formulations from wood preserving processes generated at plants that currently use or have previously used chlorophenolic formulations (except potentially cross-contaminated wastes that have had the F032 waste code deleted in accordance with §261.35 of this chapter or potentially cross-contaminated wastes that are otherwise currently regulated as hazardous wastes (i.e., F034 or F035), and where the generator does not resume or initiate use of chlorophenolic formulations). This listing does not include K001 bottom sediment sludge from the treatment of wastewater from wood preserving processes that use creosote and/or pentachlorophenol.				
F034 .....		4	F034	1 (0.454)
Wastewaters (except those that have not come into contact with process contaminants), process residuals, preservative drippage, and spent formulations from wood preserving processes generated at plants that use creosote formulations. This listing does not include K001 bottom sediment sludge from the treatment of wastewater from wood preserving processes that use creosote and/or pentachlorophenol.				
F035 .....		4	F035	1 (0.454)

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TABLE 302.4—LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued

[Note: All Comments/Notes Are Located at the End of This Table]

Hazardous substance	CASRN	Statutory codedagger;	RCRA waste No.	Final RQ pounds (Kg)
Wastewaters (except those that have not come into contact with process contaminants), process residuals, preservative drippage, and spent formulations from wood preserving processes generated at plants that use inorganic preservatives containing arsenic or chromium. This listing does not include K001 bottom sediment sludge from the treatment of wastewater from wood preserving processes that use creosote and/or pentachlorophenol.				
F037 .....	.....	4	F037	1 (0.454)
Petroleum refinery primary oil/water/solids separation sludge-Any sludge generated from the gravitational separation of oil/water/solids during the storage or treatment of process wastewaters and oily cooling wastewaters from petroleum refineries. Such sludges include, but are not limited to those generated in oil/water/solids separators; tanks and impoundments; ditches and other conveyances; sumps; and stormwater units receiving dry weather flow. Sludges generated in stormwater units that do not receive dry weather flow, sludges generated from non-contact once-through cooling waters segregated for treatment from other process or oily cooling waters, sludges generated in aggressive biological treatment units as defined in §261.31(b)(2) (including sludges generated in one or more additional units after wastewaters have been treated in aggressive biological treatment units) and K051 wastes are not included in this listing. This listing does include residuals generated from processing or recycling oil-bearing hazardous secondary materials excluded under §261.4(a)(12)(i), if those residuals are to be disposed of.				
F038 .....	.....	4	F038	1 (0.454)
Petroleum refinery secondary (emulsified) oil/water/solids separation sludge-Any sludge and/or float generated from the physical and/or chemical separation of oil/water/solids in process wastewaters and oily cooling wastewaters from petroleum refineries. Such wastes include, but are not limited to, all sludges and floats generated in: induced air flotation (IAF) units, tanks and impoundments, and all sludges generated in DAF units. Sludges generated in stormwater units that do not receive dry weather flow, sludges generated from non-contact once-through cooling waters segregated for treatment from other process or oily cooling waters, sludges and floats generated in aggressive biological treatment units as defined in §261.31(b)(2) (including sludges and floats generated in one or more additional units after wastewaters have been treated in aggressive biological treatment units) and F037, K048, and K051 wastes are not included in this listing.				
F039 .....	.....	4	F039	1 (0.454)
Leachate (liquids that have percolated through land disposed wastes) resulting from the disposal of more than one restricted waste classified as hazardous under subpart D of 40 CFR part 261. (Leachate resulting from the disposal of one or more of the following EPA Hazardous Wastes and no other hazardous wastes retains its EPA Hazardous Waste Number(s): F020, F021, F022, F026, F027, and/or F028.)				
K001 .....	.....	4	K001	1 (0.454)
Bottom sediment sludge from the treatment of wastewaters from wood preserving processes that use creosote and/or pentachlorophenol.				
K002 .....	.....	4	K002	10 (4.54)
Wastewater treatment sludge from the production of chrome yellow and orange pigments.				
K003 .....	.....	4	K003	10 (4.54)

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TABLE 302.4—LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued

[Note: All Comments/Notes Are Located at the End of This Table]

Hazardous substance	CASRN	Statutory codedagger;	RCRA waste No.	Final RQ pounds (Kg)
Wastewater treatment sludge from the production of molybdate orange pigments.				
K004 .....		4	K004	10 (4.54)
Wastewater treatment sludge from the production of zinc yellow pigments.				
K005 .....		4	K005	10 (4.54)
Wastewater treatment sludge from the production of chrome green pigments.				
K006 .....		4	K006	10 (4.54)
Wastewater treatment sludge from the production of chrome oxide green pigments (anhydrous and hydrated).				
K007 .....		4	K007	10 (4.54)
Wastewater treatment sludge from the production of iron blue pigments.				
K008 .....		4	K008	10 (4.54)
Oven residue from the production of chrome oxide green pigments.				
K009 .....		4	K009	10 (4.54)
Distillation bottoms from the production of acetaldehyde from ethylene.				
K010 .....		4	K010	10 (4.54)
Distillation side cuts from the production of acetaldehyde from ethylene.				
K011 .....		4	K011	10 (4.54)
Bottom stream from the wastewater stripper in the production of acrylonitrile.				
K013 .....		4	K013	10 (4.54)
Bottom stream from the acetonitrile column in the production of acrylonitrile.				
K014 .....		4	K014	5000 (2270)
Bottoms from the acetonitrile purification column in the production of acrylonitrile.				
K015 .....		4	K015	10 (4.54)
Still bottoms from the distillation of benzyl chloride.				
K016 .....		4	K016	1 (0.454)
Heavy ends or distillation residues from the production of carbon tetrachloride.				
K017 .....		4	K017	10 (4.54)
Heavy ends (still bottoms) from the purification column in the production of epichlorohydrin.				
K018 .....		4	K018	1 (0.454)
Heavy ends from the fractionation column in ethyl chloride production.				
K019 .....		4	K019	1 (0.454)
Heavy ends from the distillation of ethylene dichloride in ethylene dichloride production.				
K020 .....		4	K020	1 (0.454)
Heavy ends from the distillation of vinyl chloride in vinyl chloride monomer production.				
K021 .....		4	K021	10 (4.54)
Aqueous spent antimony catalyst waste from fluoromethanes production.				
K022 .....		4	K022	1 (0.454)
Distillation bottom tars from the production of phenol/acetone from cumene.				
K023 .....		4	K023	5000 (2270)
Distillation light ends from the production of phthalic anhydride from naphthalene.				
K024 .....		4	K024	5000 (2270)
Distillation bottoms from the production of phthalic anhydride from naphthalene.				
K025 .....		4	K025	10 (4.54)
Distillation bottoms from the production of nitrobenzene by the nitration of benzene.				
K026 .....		4	K026	1000 (454)
Stripping still tails from the production of methyl ethyl pyridines.				
K027 .....		4	K027	10 (4.54)

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TABLE 302.4—LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued

[Note: All Comments/Notes Are Located at the End of This Table]

Hazardous substance	CASRN	Statutory codedagger;	RCRA waste No.	Final RQ pounds (Kg)
Centrifuge and distillation residues from toluene diisocyanate production.				
K028 .....		4	K028	1 (0.454)
Spent catalyst from the hydrochlorinator reactor in the production of 1,1,1-trichloroethane.				
K029 .....		4	K029	1 (0.454)
Waste from the product steam stripper in the production of 1,1,1-trichloroethane.				
K030 .....		4	K030	1 (0.454)
Column bottoms or heavy ends from the combined production of trichloroethylene and perchloroethylene.				
K031 .....		4	K031	1 (0.454)
By-product salts generated in the production of MSMA and cacodylic acid.				
K032 .....		4	K032	10 (4.54)
Wastewater treatment sludge from the production of chlordane.				
K033 .....		4	K033	10 (4.54)
Wastewater and scrub water from the chlorination of cyclopentadiene in the production of chlordane.				
K034 .....		4	K034	10 (4.54)
Filter solids from the filtration of hexachlorocyclopentadiene in the production of chlordane.				
K035 .....		4	K035	1 (0.454)
Wastewater treatment sludges generated in the production of creosote.				
K036 .....		4	K036	1 (0.454)
Still bottoms from toluene reclamation distillation in the production of disulfoton.				
K037 .....		4	K037	1 (0.454)
Wastewater treatment sludges from the production of disulfoton.				
K038 .....		4	K038	10 (4.54)
Wastewater from the washing and stripping of phorate production.				
K039 .....		4	K039	10 (4.54)
Filter cake from the filtration of diethylphosphorodithioic acid in the production of phorate.				
K040 .....		4	K040	10 (4.54)
Wastewater treatment sludge from the production of phorate.				
K041 .....		4	K041	1 (0.454)
Wastewater treatment sludge from the production of toxaphene.				
K042 .....		4	K042	10 (4.54)
Heavy ends or distillation residues from the distillation of tetrachlorobenzene in the production of 2,4,5-T.				
K043 .....		4	K043	10 (4.54)
2,6-Dichlorophenol waste from the production of 2,4-D.				
K044 .....		4	K044	10 (4.54)
Wastewater treatment sludges from the manufacturing and processing of explosives.				
K045 .....		4	K045	10 (4.54)
Spent carbon from the treatment of wastewater containing explosives.				
K046 .....		4	K046	10 (4.54)
Wastewater treatment sludges from the manufacturing, formulation and loading of lead-based initiating compounds.				
K047 .....		4	K047	10 (4.54)
Pink/red water from TNT operations.				
K048 .....		4	K048	10 (4.54)
Dissolved air flotation (DAF) float from the petroleum refining industry.				
K049 .....		4	K049	10 (4.54)
Slop oil emulsion solids from the petroleum refining industry.				
K050 .....		4	K050	10 (4.54)

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TABLE 302.4—LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued

[Note: All Comments/Notes Are Located at the End of This Table]

Hazardous substance	CASRN	Statutory codedagger;	RCRA waste No.	Final RQ pounds (Kg)
Heat exchanger bundle cleaning sludge from the petroleum refining industry.				
K051 .....		4	K051	10 (4.54)
API separator sludge from the petroleum refining industry.				
K052 .....		4	K052	10 (4.54)
Tank bottoms (leaded) from the petroleum refining industry.				
K060 .....		4	K060	1 (0.454)
Ammonia still lime sludge from coking operations.				
K061 .....		4	K061	10 (4.54)
Emission control dust/sludge from the primary production of steel in electric furnaces.				
K062 .....		4	K062	10 (4.54)
Spent pickle liquor generated by steel finishing operations of facilities within the iron and steel industry (SIC Codes 331 and 332).				
K064 .....		4	K064	10 (4.54)
Acid plant blowdown slurry/sludge resulting from the thickening of blowdown slurry from primary copper production.				
K065 .....		4	K065	10 (4.54)
Surface impoundment solids contained in and dredged from surface impoundments at primary lead smelting facilities.				
K066 .....		4	K066	10 (4.54)
Sludge from treatment of process wastewater and/or acid plant blowdown from primary zinc production.				
K069 .....		4	K069	10 (4.54)
Emission control dust/sludge from secondary lead smelting. (Note: This listing is stayed administratively for sludge generated from secondary acid scrubber systems. The stay will remain in effect until further administrative action is taken. If EPA takes further action effecting the stay, EPA will publish a notice of the action in the <b>Federal Register</b> .)				
K071 .....		4	K071	1 (0.454)
Brine purification muds from the mercury cell process in chlorine production, where separately prepurified brine is not used.				
K073 .....		4	K073	10 (4.54)
Chlorinated hydrocarbon waste from the purification step of the diaphragm cell process using graphite anodes in chlorine production.				
K083 .....		4	K083	100 (45.4)
Distillation bottoms from aniline production.				
K084 .....		4	K084	1 (0.454)
Wastewater treatment sludges generated during the production of veterinary pharmaceuticals from arsenic or organo-arsenic compounds.				
K085 .....		4	K085	10 (4.54)
Distillation or fractionation column bottoms from the production of chlorobenzenes.				
K086 .....		4	K086	10 (4.54)
Solvent washes and sludges, caustic washes and sludges, or water washes and sludges from cleaning tubs and equipment used in the formulation of ink from pigments, driers, soaps, and stabilizers containing chromium and lead.				
K087 .....		4	K087	100 (45.4)
Decanter tank tar sludge from coking operations.				
K088 .....		4	K088	10 (4.54)
Spent polliners from primary aluminum reduction.				
K090 .....		4	K090	10 (4.54)
Emission control dust or sludge from ferrochromium/silicon production.				
K091 .....		4	K091	10 (4.54)
Emission control dust or sludge from ferrochromium production.				
K093 .....		4	K093	5000 (2270)

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TABLE 302.4—LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued

[Note: All Comments/Notes Are Located at the End of This Table]

Hazardous substance	CASRN	Statutory codedagger;	RCRA waste No.	Final RQ pounds (Kg)
Distillation light ends from the production of phthalic anhydride from ortho-xylene.				
K094		4	K094	5000 (2270)
Distillation bottoms from the production of phthalic anhydride from ortho-xylene.				
K095		4	K095	100 (45.4)
Distillation bottoms from the production of 1,1,1-trichloroethane.				
K096		4	K096	100 (45.4)
Heavy ends from the heavy ends column from the production of 1,1,1-trichloroethane.				
K097		4	K097	1 (0.454)
Vacuum stripper discharge from the chlordane chlorinator in the production of chlordane.				
K098		4	K098	1 (0.454)
Untreated process wastewater from the production of toxaphene.				
K099		4	K099	10 (4.54)
Untreated wastewater from the production of 2,4-D.				
K100		4	K100	10 (4.54)
Waste leaching solution from acid leaching of emission control dust/sludge from secondary lead smelting.				
K101		4	K101	1 (0.454)
Distillation tar residues from the distillation of aniline-based compounds in the production of veterinary pharmaceuticals from arsenic or organo-arsenic compounds.				
K102		4	K102	1 (0.454)
Residue from the use of activated carbon for decolorization in the production of veterinary pharmaceuticals from arsenic or organo-arsenic compounds.				
K103		4	K103	100 (45.4)
Process residues from aniline extraction from the production of aniline.				
K104		4	K104	10 (4.54)
Combined wastewater streams generated from nitrobenzene/aniline production.				
K105		4	K105	10 (4.54)
Separated aqueous stream from the reactor product washing step in the production of chlorobenzenes.				
K106		4	K106	1 (0.454)
Wastewater treatment sludge from the mercury cell process in chlorine production.				
K107		4	K107	10 (4.54)
Column bottoms from product separation from the production of 1,1- dimethylhydrazine (UDMH) from carboxylic acid hydrazines.				
K108		4	K108	10 (4.54)
Condensed column overheads from product separation and condensed reactor vent gases from the production of 1,1- dimethylhydrazine (UDMH) from carboxylic acid hydrazides.				
K109		4	K109	10 (4.54)
Spent filter cartridges from product purification from the production of 1,1-dimethylhydrazine (UDMH) from carboxylic acid hydrazides.				
K110		4	K110	10 (4.54)
Condensed column overheads from intermediate separation from the production of 1,1- dimethylhydrazine (UDMH) from carboxylic acid hydrazides.				
K111		4	K111	10 (4.54)
Product washwaters from the production of dinitrotoluene via nitration of toluene.				
K112		4	K112	10 (4.54)
Reaction by-product water from the drying column in the production of toluenediamine via hydrogenation of dinitrotoluene.				
K113		4	K113	10 (4.54)



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TABLE 302.4—LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued

[Note: All Comments/Notes Are Located at the End of This Table]

Hazardous substance	CASRN	Statutory codedagger;	RCRA waste No.	Final RQ pounds (Kg)
Condensed liquid light ends from the purification of toluenediamine in the production of toluenediamine via hydrogenation of dinitrotoluene.				
K114		4	K114	10 (4.54)
Vicinals from the purification of toluenediamine in the production of toluenediamine via hydrogenation of dinitrotoluene.				
K115		4	K115	10 (4.54)
Heavy ends from the purification of toluenediamine in the production of toluenediamine via hydrogenation of dinitrotoluene.				
K116		4	K116	10 (4.54)
Organic condensate from the solvent recovery column in the production of toluene diisocyanate via phosgenation of toluenediamine.				
K117		4	K117	1 (0.454)
Wastewater from the reactor vent gas scrubber in the production of ethylene dibromide via bromination of ethene.				
K118		4	K118	1 (0.454)
Spent adsorbent solids from purification of ethylene dibromide in the production of ethylene dibromide via bromination of ethene.				
K123		4	K123	10 (4.54)
Process wastewater (including supernates, filtrates, and washwaters) from the production of ethylenebisdithiocarbamic acid and its salts.				
K124		4	K124	10 (4.54)
Reactor vent scrubber water from the production of ethylenebisdithiocarbamic acid and its salts.				
K125		4	K125	10 (4.54)
Filtration, evaporation, and centrifugation solids from the production of ethylenebisdithiocarbamic acid and its salts.				
K126		4	K126	10 (4.54)
Baghouse dust and floor sweepings in milling and packaging operations from the production or formulation of ethylenebisdithiocarbamic acid and its salts.				
K131		4	K131	100 (45.4)
Wastewater from the reactor and spent sulfuric acid from the acid dryer from the production of methyl bromide.				
K132		4	K132	1000 (454)
Spent absorbent and wastewater separator solids from the production of methyl bromide.				
K136		4	K136	1 (0.454)
Still bottoms from the purification of ethylene dibromide in the production of ethylene dibromide via bromination of ethene.				
K141		4	K141	1 (0.454)
Process residues from the recovery of coal tar, including, but not limited to, collecting sump residues from the production of coke from coal or the recovery of coke by-products produced from coal. This listing does not include K087 (decanter tank tar sludges from coking operations).				
K142		4	K142	1 (0.454)
Tar storage tank residues from the production of coke from coal or from the recovery of coke by-products produced from coal.				
K143		4	K143	1 (0.454)
Process residues from the recovery of light oil, including, but not limited to, those generated in stills, decanters, and wash oil recovery units from the recovery of coke by-products produced from coal.				
K144		4	K144	1 (0.454)
Wastewater sump residues from light oil refining, including, but not limited to, intercepting or contamination sump sludges from the recovery of coke by-products produced from coal.				

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TABLE 302.4—LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued

[Note: All Comments/Notes Are Located at the End of This Table]

Hazardous substance	CASRN	Statutory codedagger;	RCRA waste No.	Final RQ pounds (Kg)
K145 ..... Residues from naphthalene collection and recovery operations from the recovery of coke by-products produced from coal.	.....	4	K145	1 (0.454)
K147 ..... Tar storage tank residues from coal tar refining.	.....	4	K147	1 (0.454)
K148 ..... Residues from coal tar distillation, including, but not limited to, still bottoms.	.....	4	K148	1 (0.454)
K149 ..... Distillation bottoms from the production of alpha-(or methyl-) chlorinated toluenes, ring-chlorinated toluenes, benzoyl chlorides, and compounds with mixtures of these functional groups. [This waste does not include still bottoms from the distillation of benzyl chloride.]	.....	4	K149	10 (4.54)
K150 ..... Organic residuals, excluding spent carbon adsorbent, from the spent chlorine gas and hydrochloric acid recovery processes associated with the production of alpha- (or methyl-) chlorinated toluenes, ring-chlorinated toluenes, benzoyl chlorides, and compounds with mixtures of these functional groups.	.....	4	K150	10 (4.54)
K151 ..... Wastewater treatment sludges, excluding neutralization and biological sludges, generated during the treatment of waste-waters from the production of alpha- (or methyl-) chlorinated toluenes, ring-chlorinated toluenes, benzoyl chlorides, and compounds with mixtures of these functional groups.	.....	4	K151	10 (4.54)
K156 ..... Organic waste (including heavy ends, still bottoms, light ends, spent solvents, filtrates, and decantates) from the production of carbamates and carbamoyl oximes. (This listing does not apply to wastes generated from the manufacture of 3-iodo-2-propynyl n-butylcarbamate.)	.....	4	K156	##
K157 ..... Wastewaters (including scrubber waters, condenser waters, washwaters, and separation waters) from the production of carbamates and carbamoyl oximes. (This listing does not apply to wastes generated from the manufacture of 3-iodo-2-propynyl n-butylcarbamate.)	.....	4	K157	##
K158 ..... Bag house dusts and filter/separation solids from the production of carbamates and carbamoyl oximes. (This listing does not apply to wastes generated from the manufacture of 3-iodo-2-propynyl n-butylcarbamate.)	.....	4	K158	##
K159 ..... Organics from the treatment of thiocarbamate wastes.	.....	4	K159	##
K161 ..... Purification solids (including filtration, evaporation, and centrifugation solids), baghouse dust and floor sweepings from the production of dithiocarbamate acids and their salts. (This does not include K125 or K126.)	.....	4	K161	##
K169 <sup>f</sup> ..... Crude oil storage tank sediment from petroleum refining operations.	.....	4	K169	10 (4.54)
K170 <sup>f</sup> ..... Clarified slurry oil tank sediment and/or in-line filter/separation solids from petroleum refining operations.	.....	4	K170	1 (0.454)
K171 <sup>f</sup> ..... Spent hydrotreating catalyst from petroleum refining operations. (This listing does not include inert support media.)	.....	4	K171	1 (0.454)
K172 <sup>f</sup> ..... Spent hydrotreating catalyst from petroleum refining operations. (This listing does not include inert support media.)	.....	4	K172	1 (0.454)
K174 <sup>f</sup> .....	.....	4	K174	1 (0.454)
K175 <sup>f</sup> .....	.....	4	K175	1 (0.454)

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TABLE 302.4—LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES—Continued

[Note: All Comments/Notes Are Located at the End of This Table]

Hazardous substance	CASRN	Statutory codedagger;	RCRA waste No.	Final RQ pounds (Kg)
K176 ..... Baghouse filters from the production of antimony oxide, including filters from the production of intermediates (e.g., antimony metal or crude antimony oxide)	.....	4	K176	1 (0.454)
K177 ..... Slag from the production of antimony oxide that is speculatively accumulated or disposed, including slag from the production of intermediates (e.g., antimony metal or crude antimony oxide)	.....	4	K177	5,000 (2270)
K178 ..... Residues from manufacturing and manufacturing-site storage of ferric chloride from acids formed during the production of titanium dioxide using the chloride ilmenite process	.....	4	K178	1 (0.454)

dagger; Indicates the statutory source defined by 1,2,3, and 4, as described in the note preceding Table 302.4.  
dagger;dagger; No reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is larger than 100 micrometers (0.004 inches).  
dagger;dagger;dagger; The RQ for asbestos is limited to friable forms only.  
## The Agency may adjust the statutory RQ for this hazardous substance in a future rulemaking; until then the statutory one-pound RQ applies.  
§ The adjusted RQs for radionuclides may be found in Appendix B to this table.  
\*\* Indicates that no RQ is being assigned to the generic or broad class.  
<sup>a</sup> Benzene was already a CERCLA hazardous substance prior to the CAA Amendments of 1990 and received an adjusted 10-pound RQ based on potential carcinogenicity in an August 14, 1989, final rule (54 FR 33418). The CAA Amendments specify that "benzene (including benzene from gasoline)" is a hazardous air pollutant and, thus, a CERCLA hazardous substance.  
<sup>b</sup> The CAA Amendments of 1990 list DDE (3547-04-4) as a CAA hazardous air pollutant. The CAS number, 3547-04-4, is for the chemical, p,p'-dichlorodiphenylethane. DDE or p,p'-dichlorodiphenyldichloroethylene, CAS number 72-55-9, is already listed in Table 302.4 with a final RQ of 1 pound. The substance identified by the CAS number 3547-04-4 has been evaluated and listed as DDE to be consistent with the CAA section 112 listing, as amended.  
<sup>c</sup> Includes mineral fiber emissions from facilities manufacturing or processing glass, rock, or slag fibers (or other mineral derived fibers) of average diameter 1 micrometer or less.  
<sup>d</sup> Includes mono- and di-ethers of ethylene glycol, diethylene glycol, and triethylene glycol R-(OCH2CH2)n-OR' where:  
n = 1, 2, or 3;  
R = alkyl C7 or less; or  
R = phenyl or alkyl substituted phenyl;  
R' = H or alkyl C7 or less; or  
OR' consisting of carboxylic acid ester, sulfate, phosphate, nitrate, or sulfonate.  
<sup>e</sup> Includes organic compounds with more than one benzene ring, and which have a boiling point greater than or equal to 100 °C.  
<sup>f</sup> See 40 CFR 302.6(b)(1) for application of the mixture rule to this hazardous waste.

APPENDIX A TO § 302.4—SEQUENTIAL CAS REGISTRY NUMBER LIST OF CERCLA HAZARDOUS SUBSTANCES

APPENDIX A TO § 302.4—SEQUENTIAL CAS REGISTRY NUMBER LIST OF CERCLA HAZARDOUS SUBSTANCES—Continued

CASRN	Hazardous substance
50000	Formaldehyde.
50077	Azirino[2',3':3,4]pyrrolo[1,2-a]indole-4,7-dione,6-amino-8-[[[(aminocarbonyloxy)methyl]-1,1a,2,8,8a, 8b-hexahydro-8a-methoxy-5-methyl-, [1aS-(1aalpha, 8beta,8aalpha,8balpha)]-Mitomycin C.
50180	Cyclophosphamide. 2H-1,3,2-Oxazaphosphorin-2-amine, N,N-bis(2-chloroethyl)tetrahydro-, 2-oxide.
50293	Benzene, 1,1'-(2,2,2-trichloroethylidene)bis[4-chloro-, DDT, 4,4'-DDT.
50328	Benzo[a]pyrene. 3,4-Benzopyrene.
50555	Reserpine. Yohimban-16-carboxylic acid,11,17-dimethoxy-18-[[3,4,5-trimethoxybenzoyloxy]-, methyl ester (3beta, 16beta,17alpha,18beta,20alpha)-.
51285	Phenol, 2,4-dinitro-. 2,4-Dinitrophenol.
51434	Epinephrine.

CASRN	Hazardous substance
51796	1,2-Benzenediol,4-[1-hydroxy-2-(methylamino)ethyl]-. Carbamic acid, ethyl ester. Ethyl carbamate. Urethane. Trichlorfon. Famphur. [(dimethylamino)sulfonyl]phenyl O,O-dimethyl ester. Dibenzo[a,h]anthracene. Dibenzo[a,h]anthracene. 1,2:5,6-Dibenzanthracene. Acetamide, N-9H-fluoren-2-yl-. 2-Acetylaminofluorene.
52686	Trichlorfon.
52857	Famphur.
53963	Acetamide, N-9H-fluoren-2-yl-. 2-Acetylaminofluorene.
54115	Nicotine, & salts. Pyridine, 3-(1-methyl-2-pyrrolidinyl)-, (S)-, & salts.
55185	Ethanamine, N-ethyl-N-nitroso-. N-Nitrosodiethylamine.
55630	Nitroglycerine. 1,2,3-Propanetriol, trinitrate.

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APPENDIX A TO § 302.4—SEQUENTIAL CAS REGISTRY NUMBER LIST OF CERCLA HAZARDOUS SUBSTANCES—Continued

APPENDIX A TO § 302.4—SEQUENTIAL CAS REGISTRY NUMBER LIST OF CERCLA HAZARDOUS SUBSTANCES—Continued

CASRN	Hazardous substance
55914	Diisopropylfluorophosphate (DFP). Phosphorofluoridic acid, bis(1-methylethyl) ester.
56042	Methylthiourea. 4(1H)-Pyrimidinone, 2,3-dihydro-6-methyl-2-thioxo-
56235	Carbon tetrachloride. Methane, tetrachloro-
56382	Parathion. Phosphorothioic acid, O,O-diethyl O-(4-nitrophenyl) ester.
56495	Benz[ <i>j</i> ]aceanthrylene, 1,2-dihydro-3-methyl-3-Methylcholanthrene.
56531	Diethylstilbestrol. Phenol, 4,4'-(1,2-diethyl-1,2-ethenediyl)bis-, (E).
56553	Benz[ <i>a</i> ]anthracene. Benzo[ <i>a</i> ]anthracene. 1,2-Benzanthracene.
56724	Coumaphos.
57147	Hydrazine, 1,1-dimethyl-, 1,1-Dimethylhydrazine.
57249	Strychnidin-10-one, & salts. Strychnine, & salts.
57476	Pyrrolo[2,3- <i>b</i> ]indol-5-ol, 1,2,3,3a,8,8a-hexahydro-1,3a,8-trimethyl-, methylcarbamate (ester), (3 <i>aS</i> - <i>cis</i> -) (Physostigmine).
57578	beta-Propiolactone.
57647	Benzoic acid, 2-hydroxy-, compd. with (3 <i>aS</i> - <i>cis</i> -) 1,2,3,3a,8,8a-hexahydro-1,3a,8-trimethylpyrrolo[2,3- <i>b</i> ]indol-5-yl methylcarbamate ester (1:1) (Physostigmine salicylate).
57749	Chlordane. Chlordane, alpha & gamma isomers. CHLORDANE (TECHNICAL MIXTURE AND METABOLITES). 4,7-Methano-1H-indene, 1,2,4,5,6,7,8,8-octachloro-2,3,3a,4,7,7a-hexahydro-
57976	Benz[ <i>a</i> ]anthracene, 7,12-dimethyl-, 7,12-Dimethylbenz[ <i>a</i> ]anthracene.
58899	γ-BHC. Cyclohexane, 1,2,3,4,5,6-hexachloro-(1α,2α,3β,4α,5α,6β)-. Lindane. Lindane (all isomers).
58902	Phenol, 2,3,4,6-tetrachloro-, 2,3,4,6-Tetrachlorophenol.
59507	p-Chloro-m-cresol. Phenol, 4-chloro-3-methyl-
59892	N-Nitrosomorpholine.
60004	Ethylenediamine-tetraacetic acid (EDTA).
60117	Benzenamine, N,N-dimethyl-4-(phenylazo)-. Dimethyl aminoazobenzene. p-Dimethylaminoazobenzene.
60297	Ethane, 1,1'-oxybis-. Ethyl ether.
60344	Hydrazine, methyl-. Methyl hydrazine.
60355	Acetamide.
60515	Dimethoate. Phosphorodithioic acid, O,O-dimethyl S-[2(methylamino)-2-oxoethyl] ester.
60571	Dieldrin. 2,7:3,6-Dimethanonaphth[2,3- <i>b</i> ]oxirene, 3,4,5,6,9,9-hexachloro-1a,2, 2a,3,6,6a,7,7a-octahydro-, (1aalpha,2beta,2alpha,3beta,6beta, 6aalpha,7beta, 7aalpha)-.
61825	Amitrole. 1H-1,2,4-Triazol-3-amine.

CASRN	Hazardous substance
62384	Mercury, (acetato-O)phenyl-. Phenylmercury acetate.
62442	Acetamide, N-(4-ethoxyphenyl)-. Phenacetin.
62500	Ethyl methanesulfonate. Methanesulfonic acid, ethyl ester.
62533	Aniline. Benzenamine.
62555	Ethanethioamide. Thioacetamide.
62566	Thiourea.
62737	Dichlorvos.
62748	Acetic acid, fluoro-, sodium salt. Fluoroacetic acid, sodium salt.
62759	Methanamine, N-methyl-N-nitroso-. N-Nitrosodimethylamine.
63252	Carbaryl. 1-Naphthalenol, methylcarbamate.
64006	Phenol, 3-(1-methylethyl)-, methyl carbamate (m-Cumenyl methylcarbamate).
64186	Formic acid.
64197	Acetic acid.
64675	Diethyl sulfate.
65850	Benzoic acid.
66751	Uracil mustard. 2,4-(1H,3H)-Pyrimidinedione, 5-[bis(2-chloroethyl) amino]-.
67561	Methanol. Methyl alcohol.
67641	Acetone. 2-Propanone.
67663	Chloroform. Methane, trichloro-
67721	Ethane, hexachloro-. Hexachloroethane.
68122	Dimethylformamide.
70257	Guanidine, N-methyl-N'-nitro-N-nitroso-. MNNG.
70304	Hexachlorophene. Phenol, 2,2'-methylenebis[3,4,6-tri-chloro-n-Butyl alcohol.
71363	1-Butanol.
71432	Benzene.
71556	Ethane, 1,1,1-trichloro-. Methyl chloroform. 1,1,1-Trichloroethane.
72208	Endrin. Endrin, & metabolites. 2,7:3,6-Dimethanonaphth[2,3- <i>b</i> ]oxirene,3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1aalpha,2beta,2alpha,3alpha, 6alpha,6beta,7beta,7aalpha)-, & metabolites.
72435	Benzene, 1,1'-(2,2,2-trichloroethylidene)bis[4-methoxy-. Methoxychlor.
72548	Benzene, 1,1'-(2,2-dichloroethylidene)bis[4-chloro-. DDD. TDE. 4,4'-DDD.
72559	DDE. 4,4'-DDE.
72571	Trypan blue. 2,7-Naphthalenedisulfonic acid, 3,3'-[(3,3'-dimethyl-(1,1'-biphenyl)-4,4'-diyl)-bis(azo)]bis(5-amino-4-hydroxy)-tetrasodium salt.
74839	Bromomethane. Methane, bromo-. Methyl bromide.

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APPENDIX A TO § 302.4—SEQUENTIAL CAS  
REGISTRY NUMBER LIST OF CERCLA HAZ-  
ARDOUS SUBSTANCES—Continued

APPENDIX A TO § 302.4—SEQUENTIAL CAS  
REGISTRY NUMBER LIST OF CERCLA HAZ-  
ARDOUS SUBSTANCES—Continued

CASRN	Hazardous substance
74873	Chloromethane. Methane, chloro-.
74884	Methyl chloride. Iodomethane Methane, iodo-. Methyl iodide.
74895	Monomethylamine.
74908	Hydrocyanic acid. Hydrogen cyanide.
74931	Methanethiol. Methyl mercaptan. Thiomethanol.
74953	Methane, dibromo-.
75003	Methylene bromide. Chloroethane.
75014	Ethyl chloride. Ethene, chloro-.
75047	Vinyl chloride. Monoethylamine.
75058	Acetonitrile.
75070	Acetaldehyde. Ethanal.
75092	Dichloromethane. Methane, dichloro-.
75150	Methylene chloride. Carbon disulfide.
75207	Calcium carbide.
75218	Ethylene oxide. Oxirane.
75252	Bromoform. Methane, tribromo-.
75274	Dichlorobromomethane.
75343	Ethane, 1,1-dichloro-.
75354	Ethylidene dichloride. 1,1-Dichloroethane. Ethene, 1,1-dichloro-.
75365	Vinylidene chloride. 1,1-Dichloroethylene.
75445	Acetyl chloride. Carbonic dichloride. Phosgene.
75503	Trimethylamine.
75558	Aziridine, 2-methyl-.
75569	2-Methyl aziridine. 1,2-Propylenimine. Propylene oxide.
75605	Arsinic acid, dimethyl-.
75649	Cacodylic acid. tert-Butylamine.
75694	Methane, trichlorofluoro-.
75718	Trichloromonofluoromethane. Dichlorodifluoromethane. Methane, dichlorodifluoro-.
75865	Acetone cyanohydrin. Propanenitrile, 2-hydroxy-2-methyl-.
75876	2-Methylacetonitrile. Acetaldehyde, trichloro-.
75990	Chloral. 2,2-Dichloropropionic acid.
76017	Ethane, pentachloro-.
76448	Pentachloroethane. Heptachlor. 4,7-Methano-1H-indene, 1,4,5,6,7,8,8- heptachloro-3a,4,7,7a-tetrahydro-.
77474	Hexachlorocyclopentadiene. 1,3-Cyclopentadiene, 1,2,3,4,5,5-hexa- chloro-.
77781	Dimethyl sulfate. Sulfuric acid, dimethyl ester.
78002	Plumbane, tetraethyl-.
	Tetraethyl lead.

CASRN	Hazardous substance
78591	Isophorone.
78795	Isoprene.
78819	iso-Butylamine.
78831	Isobutyl alcohol. 1-Propanol, 2-methyl-.
78875	Propane, 1,2-dichloro-.
78886	Propylene dichloride. 1,2-Dichloropropane.
78933	2,3-Dichloropropene. 2-Butanone. MEK. Methyl ethyl ketone.
78999	1,1-Dichloropropane.
79005	Ethane, 1,1,2-trichloro-.
79016	1,1,2-Trichloroethane. Ethene, trichloro-.
79061	Trichloroethylene. Acrylamide. 2-Propenamide.
79094	Propionic acid.
79107	Acrylic acid. 2-Propenoic acid.
79118	Chloroacetic acid.
79196	Hydrazinecarbothioamide. Thiosemicarbazide.
79221	Carbonylchloride acid, methyl ester. Methyl chlorocarbonate.
79312	iso-Butyric acid.
79345	Ethane, 1,1,2,2-tetrachloro-.
79447	1,1,2,2-Tetrachloroethane. Carbamic chloride, dimethyl-.
79469	Dimethylcarbonyl chloride. Propane, 2-nitro-.
80159	2-Nitropropane. alpha,alpha-Dimethylbenzylhydroperoxide. Hydroperoxide, 1-methyl-1-phenylethyl-.
80626	Methyl methacrylate. 2-Propenoic acid, 2-methyl-, methyl ester.
81072	Saccharin, & salts. 1,2-Benzisothiazol-3(2H)-one, 1,1-dioxide, & salts.
81812	Warfarin, & salts. 2H-1-Benzopyran-2-one, 4-hydroxy-3-(3-oxo-1- phenylbutyl)-, & salts.
82688	Benzene, pentachloronitro-.
83329	PCNB. Pentachloronitrobenzene. Quintobenzene.
84662	Acenaphthene. Diethyl phthalate.
84742	1,2-Benzenedicarboxylic acid, diethyl ester. Di-n-butyl phthalate. Dibutyl phthalate. n-Butyl phthalate. 1,2-Benzenedicarboxylic acid, dibutyl ester.
85007	Diquat.
85018	Phenanthrene.
85449	Phthalic anhydride. 1,3-Isobenzofurandione.
85687	Butyl benzyl phthalate.
86306	N-Nitrosodiphenylamine.
86500	Guthion.
86737	Fluorene.
86884	alpha-Naphthylthiourea. Thiourea, 1-naphthalenyl-.
87650	Phenol, 2,6-dichloro-.
87683	2,6-Dichlorophenol. Hexachlorobutadiene.
87865	1,3-Butadiene, 1,1,2,3,4,4-hexachloro-.
	Pentachlorophenol.

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APPENDIX A TO § 302.4—SEQUENTIAL CAS REGISTRY NUMBER LIST OF CERCLA HAZARDOUS SUBSTANCES—Continued

CASRN	Hazardous substance
88062	Phenol, pentachloro- Phenol, 2,4,6-trichloro- 2,4,6-Trichlorophenol.
88722	o-Nitrotoluene.
88755	o-Nitrophenol. 2-Nitrophenol.
88857	Dinoseb. Phenol, 2-(1-methylpropyl)-4,6-dinitro-.
90040	o-Anisidine.
91087	Benzene, 1,3-diisocyanatomethyl-. Toluene diisocyanate. 2,4-Toluene diisocyanate.
91203	Naphthalene.
91225	Quinoline.
91587	beta-Chloronaphthalene. Naphthalene, 2-chloro- 2-Chloronaphthalene.
91598	beta-Naphthylamine. 2-Naphthalenamine.
91667	N,N-Diethylaniline.
91805	Methapyriene. 1,2-Ethanediamine, N,N-dimethyl-N'-2-pyridinyl- N'- (2-thienylmethyl)-.
91941	[1,1'-Biphenyl]-4,4'-diamine,3,3'-dichloro- 3,3'-Dichlorobenzidine.
92524	Biphenyl.
92671	4-Aminobiphenyl.
92875	Benzidine. [1,1'-Biphenyl]-4,4'-diamine.
92933	4-Nitrobiphenyl. Propanoic acid, 2-(2,4,5-trichlorophenoxy)-. Silvex (2,4,5-TP). 2,4,5-TP acid.
93765	Acetic acid, (2,4,5-trichlorophenoxy)-.
93721	2,4,5-T. 2,4,5-T acid.
93798	2,4,5-T esters.
94111	2,4-D Ester.
94586	Dihydrosafrole. 1,3-Benzodioxole, 5-propyl-.
94597	Safrole. 1,3-Benzodioxole, 5-(2-propenyl)-.
94791	2,4-D Ester.
94804	2,4-D Ester.
95476	o-Xylene.
95487	o-Cresol.
95501	Benzene, 1,2-dichloro- o-Dichlorobenzene. 1,2-Dichlorobenzene.
95534	Benzenamine, 2-methyl- o-Toluidine.
95578	o-Chlorophenol. Phenol, 2-chloro- 2-Chlorophenol.
95807	Benzenediamine, ar-methyl- Toluenediamine. 2,4-Toluene diamine.
95943	Benzene, 1,2,4,5-tetrachloro- 1,2,4,5-Tetrachlorobenzene.
95954	Phenol, 2,4,5-trichloro- 2,4,5-Trichlorophenol.
96093	Styrene oxide.
96128	Propane, 1,2-dibromo-3-chloro- 1,2-Dibromo-3-chloropropane.
96457	Ethylenethiourea. 2-Imidazolidinethione.
97632	Ethyl methacrylate. 2-Propenoic acid, 2-methyl-, ethyl ester.
98011	Furfural. 2-Furancarboxaldehyde.

CASRN	Hazardous substance
98077	Benzene, (trichloromethyl)-. Benzotrichloride.
98099	Benzenesulfonic acid chloride. Benzenesulfonyl chloride.
98828	Benzene, (1-methylethyl)-. Cumene.
98862	Acetophenone. Ethanone, 1-phenyl-.
98873	Benzal chloride. Benzene, (dichloromethyl)-.
98884	Benzoyl chloride.
98953	Benzene, nitro- Nitrobenzene.
99081	m-Nitrotoluene.
99354	Benzene, 1,3,5-trinitro- 1,3,5-Trinitrobenzene.
99558	Benzenamine, 2-methyl-5-nitro- 5-Nitro-o-toluidine.
99650	m-Dinitrobenzene.
99990	p-Nitrotoluene.
100016	Benzenamine, 4-nitro- p-Nitroaniline.
100027	p-Nitrophenol. Phenol, 4-nitro- 4-Nitrophenol.
100254	p-Dinitrobenzene.
100414	Ethylbenzene.
100425	Styrene.
100447	Benzene, (chloromethyl)-. Benzyl chloride.
100470	Benzonitrile.
100754	N-Nitrosopiperidine. Piperidine, 1-nitroso-.
101144	Benzenamine, 4,4'-methylenebis[2-chloro- 4,4'-Methylenebis(2-chloroaniline)].
101279	Carbamic acid, (3-chlorophenyl)-, 4-chloro-2- butynyl ester (Barban).
101553	Benzene, 1-bromo-4-phenoxy- 4-Bromophenyl phenyl ether.
101688	MDI. Methylene diphenyl diisocyanate.
101779	4,4'-Methylenedianiline.
103855	Phenylthiourea. Thiourea, phenyl-.
105464	sec-Butyl acetate.
105679	Phenol, 2,4-dimethyl- 2,4-Dimethylphenol.
106423	p-Xylene.
106445	p-Cresol.
106467	Benzene, 1,4-dichloro- p-Dichlorobenzene. 1,4-Dichlorobenzene.
106478	Benzenamine, 4-chloro- p-Chloroaniline.
106490	Benzenamine, 4-methyl- p-Toluidine.
106503	p-Phenylenediamine.
106514	p-Benzoquinone. 2,5-Cyclohexadiene-1,4-dione. Quinone.
106887	1,2-Epoxybutane.
106898	1-Chloro-2,3-epoxypropane. Epichlorohydrin. Oxirane, (chloromethyl)-.
106934	Dibromoethane. Ethane, 1,2-dibromo- Ethylene dibromide.
106990	1,3-Butadiene.
107028	Acrolein. 2-Propenal.

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APPENDIX A TO § 302.4—SEQUENTIAL CAS REGISTRY NUMBER LIST OF CERCLA HAZARDOUS SUBSTANCES—Continued

CASRN	Hazardous substance
107051	Allyl chloride.
107062	Ethane, 1,2-dichloro-.
	Ethylene dichloride.
	1,2-Dichloroethane.
107108	n-Propylamine.
	1-Propanamine.
107120	Ethyl cyanide.
	Propanenitrile.
107131	Acrylonitrile.
	2-Propenenitrile.
107153	Ethylenediamine.
107186	Allyl alcohol.
	2-Propen-1-ol.
107197	Propargyl alcohol.
	2-Propyn-1-ol.
107200	Acetaldehyde, chloro-.
	Chloroacetaldehyde.
107211	Ethylene glycol.
107302	Chloromethyl methyl ether.
	Methane, chloromethoxy-.
107493	Diphosphoric acid, tetraethyl ester.
	Tetraethyl pyrophosphate.
107926	Butyric acid.
108054	Vinyl acetate.
	Vinyl acetate monomer.
108101	Hexone.
	Methyl isobutyl ketone.
	4-Methyl-2-pentanone.
108247	Acetic anhydride.
108316	Maleic anhydride.
	2,5-Furandione.
108383	m-Xylene.
108394	m-Cresol.
108463	Resorcinol.
	1,3-Benzenediol.
108601	Dichloroisopropyl ether.
	Propane, 2,2"-oxybis[2-chloro-.
108883	Benzene, methyl-.
	Toluene.
108907	Benzene, chloro-.
	Chlorobenzene.
108941	Cyclohexanone.
108952	Phenol.
108985	Benzenethiol.
	Thiophenol.
109068	Pyridine, 2-methyl-.
	2-Picoline.
109739	Butylamine.
109773	Malononitrile.
	Propanedinitrile.
109897	Diethylamine.
109999	Furan, tetrahydro-.
	Tetrahydrofuran.
110009	Furan.
	Furfuran.
110167	Maleic acid.
110178	Fumaric acid.
110190	iso-Butyl acetate.
110543	Hexane.
110758	Ethene, (2-chloroethoxy)-.
	2-Chloroethyl vinyl ether.
110805	Ethanol, 2-ethoxy-.
	Ethylene glycol monoethyl ether.
110827	Benzene, hexahydro-.
	Cyclohexane.
110861	Pyridine.
111422	Diethanolamine.
111444	Bis(2-chloroethyl) ether.
	Dichloroethyl ether.
	Ethane, 1,1'-oxybis[2-chloro-.

CASRN	Hazardous substance
111546	Carbamodithioic acid, 1,2-ethanediylbis-, salts & esters.
	Ethylenebisdithiocarbamic acid, salts & esters.
111911	Bis(2-chloroethoxy) methane.
	Dichloromethoxyethane.
	Ethane, 1,1'-[methylenebis(oxy)]bis(2-chloro-.
114261	Phenol, 2-(1-methylethoxy)-, methylcarbamate.
	Propoxur (Baygon).
115026	Azaserine.
	L-Serine, diazoacetate (ester).
115297	Endosulfan.
	6,9-Methano-2,4,3-benzodioxathiepin,
	6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-
	hexahydro-, 3-oxide.
115322	Dicofol.
116063	Aldicarb.
	Propanal, 2-methyl-2-(methylthio)-, O-
	[(methylamino)carbonyl]oxime.
117806	Dichlone.
117817	1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester.
	Bis(2-ethylhexyl)phthalate.
	DEHP.
	Diethylhexyl phthalate.
117840	Di-n-octyl phthalate.
	1,2-Benzenedicarboxylic acid, dioctyl ester.
118741	Benzene, hexachloro-.
	Hexachlorobenzene.
119380	Carbamic acid, dimethyl-, 3-methyl-1-(1-methylethyl)-1H-pyrazol-5-yl ester (Isolan).
119904	[1,1'-Biphenyl]-4,4'-diamine,3,3'-dimethoxy-, 3,3'-Dimethoxybenzidine.
119937	[1,1'-Biphenyl]-4,4'-diamine,3,3'- dimethyl-, 3,3'-Dimethylbenzidine.
120127	Anthracene.
120581	Isosafrole.
	1,3-Benzodioxole, 5-(1-propenyl)-.
120809	Catechol.
120821	1,2,4-Trichlorobenzene.
120832	Phenol, 2,4-dichloro-.
	2,4-Dichlorophenol.
121142	Benzene, 1-methyl-2,4-dinitro-.
	2,4-Dinitrotoluene.
121211	Pyrethrins.
121299	Pyrethrins.
121448	Ethanamine, N,N-diethyl-.
	Triethylamine.
121697	N,N-Dimethylaniline.
121755	Malathion.
122098	alpha, alpha-Dimethylphenethylamine.
	Benzeneethanamine, alpha, alpha-dimethyl-.
122429	Carbamic acid, phenyl-, 1-methylethyl ester (Propham).
122667	Hydrazine, 1,2-diphenyl-.
	1,2-Diphenylhydrazine.
123319	Hydroquinone.
123331	Maleic hydrazide.
	3,6-Pyridazinedione, 1,2-dihydro-.
123386	Propionaldehyde.
123626	Propionic anhydride.
123637	Paraldehyde.
	1,3,5-Trioxane, 2,4,6-trimethyl-.
123739	Crotonaldehyde.
	2-Butenal.
123864	Butyl acetate.
123911	1,4-Diethylaminoethoxide.
	1,4-Dioxane.
123922	iso-Amyl acetate.
124049	Adipic acid.
124403	Dimethylamine.

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CASRN	Hazardous substance
	Methanamine, N-methyl-
124414	Sodium methylate.
124481	Chlorodibromomethane.
126727	Tris(2,3-dibromopropyl) phosphate.
	1-Propanol, 2,3-dibromo-, phosphate (3:1).
126987	Methacrylonitrile.
	2-Propenenitrile, 2-methyl-
126998	Chloroprene.
127184	Ethene, tetrachloro-
	Perchloroethylene.
	Tetrachloroethylene.
127822	Zinc phenolsulfonate.
129000	Pyrene.
130154	1,4-Naphthalenedione.
	1,4-Naphthoquinone.
131113	Dimethyl phthalate.
	1,2-Benzenedicarboxylic acid, dimethyl ester.
131748	Ammonium picrate.
	Phenol, 2,4,6-trinitro-, ammonium salt.
131895	Phenol, 2-cyclohexyl-4,6-dinitro-
	2-Cyclohexyl-4,6-dinitrophenol.
132649	Dibenzofuran.
133062	Captan.
133904	Chloramben.
134327	alpha-Naphthylamine.
	1-Naphthalenamine.
137268	Thioperoxydicarbonic diamide
	((H <sub>2</sub> N)C(S)) <sub>2</sub> S <sub>2</sub> , tetramethyl-
	Thiram.
137304	Zinc, bis(dimethylcarbomodithioato-S,S')-,
	(Ziram).
140885	Ethyl acrylate.
	2-Propenoic acid, ethyl ester.
141786	Acetic acid, ethyl ester.
	Ethyl acetate.
142289	1,3-Dichloropropane.
142712	Cupric acetate.
142847	Dipropylamine.
	1-Propanamine, N-propyl-
143339	Sodium cyanide Na(CN).
143500	Kepone.
	1,3,4-Metheno-2H-cyclobuta[cd]pentalen-2-
	one, 1,1a,3,3a,4,5,5a,5b,6-
	decachlorooctahydro-
145733	Endothall.
	7-Oxabicyclo[2.2.1]heptane-2,3-dicarboxylic
	acid.
148823	L-Phenylalanine, 4-[bis(2-chloroethyl)amino]-.
	Melphalan.
151508	Potassium cyanide K(CN).
151564	Aziridine.
	Ethylenimine.
152169	Diphosphoramidate, octamethyl-
	Octamethylpyrophosphoramidate.
156605	Ethene, 1,2-dichloro- (E).
	1,2-Dichloroethylene.
156627	Calcium cyanamide.
189559	Benzo[rs]t]pentaphene.
	Dibenzo[a,i]pyrene.
191242	Benzo[ghi]perylene.
193395	Indeno(1,2,3-cd)pyrene.
205992	Benzo[b]fluoranthene.
206440	Fluoranthene.
207089	Benzo(k)fluoranthene.
208968	Acenaphthylene.
218019	Chrysene.
225514	Benz[c]acridine.
297972	O,O-Diethyl O-pyrazinyl phospho-
	thioate.

APPENDIX A TO § 302.4—SEQUENTIAL CAS REGISTRY NUMBER LIST OF CERCLA HAZARDOUS SUBSTANCES—Continued

CASRN	Hazardous substance
	Phosphorothioic acid, O,O-diethyl O-pyrazinyl
	ester.
298000	Methyl parathion.
	Phosphorothioic acid, O,O-dimethyl O-(4-
	nitrophenyl) ester.
298022	Phorate.
	Phosphorodithioic acid, O,O-diethyl S-
	[(ethylthio) methyl] ester.
298044	Disulfoton.
	Phosphorodithioic acid, O,O-diethyl S-[2-
	(ethylthio)ethyl] ester.
300765	Naled.
301042	Acetic acid, lead(2+) salt.
	Lead acetate.
302012	Hydrazine.
303344	Lasiocarpine.
	2-Butenoic acid, 2-methyl-, 7-[[2,3-dihydroxy-2-
	(1-methoxyethyl)-3-methyl-1-
	oxobutoxy]methyl]-2,3,5,7a-tetrahydro-1H-
	pyrrolizin-1-yl ester, [1S-
	[1alpha(Z),7(2S*,3R*),7aalpha]]-.
305033	Benzenebutanoic acid, 4-[bis(2-
	chloroethyl)amino]-.
	Chlorambucil.
309002	Aldrin.
	1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-
	hexachloro-1,4,4a,5,8,8a-hexahydro-,
	(1alpha,4alpha,4abeta,5alpha,8alpha,
	8abeta)-.
311455	Diethyl-p-nitrophenyl phosphate.
	Phosphoric acid, diethyl 4-nitrophenyl ester.
315184	Mexacarbate.
	Phenol, 4-(dimethylamino)-3,5-dimethyl-,
	methylcarbamate (ester).
319846	alpha—BHC.
319857	beta—BHC.
319868	delta—BHC.
329715	2,5-Dinitrophenol.
330541	Diuron.
333415	Diazinon.
334883	Diazomethane.
353504	Carbon oxyfluoride.
	Carbonic difluoride.
357573	Brucine.
	Strychnidin-10-one, 2,3-dimethoxy-
460195	Cyanogen.
	Ethanedinitrile.
463581	Carbonyl sulfide.
465736	Isodrin.
	1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-
	hexachloro-1,4,4a,5,8,8a-hexahydro-,
	(1alpha,4alpha,4abeta,5beta,8beta, 8abeta)-.
492808	Auramine.
	Benzenamine, 4,4'-carbonimidoylbis[N,N-di-
	methyl]-.
494031	Chlornaphazine.
	Naphthalenamine, N,N'-bis(2-chloro-
	ethyl)-.
496720	Benzenediamine, ar-methyl-
	Toluenediamine.
	2,4-Toluene diamine.
504245	4-Aminopyridine.
	4-Pyridinamine.
504609	1-Methylbutadiene.
	1,3-Pentadiene.
506616	Argentate(1-), bis(cyano-C)-, potassium.
	Potassium silver cyanide.
506649	Silver cyanide Ag(CN).
506683	Cyanogen bromide (CN)Br.
506774	Cyanogen chloride (CN)Cl.



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APPENDIX A TO § 302.4—SEQUENTIAL CAS REGISTRY NUMBER LIST OF CERCLA HAZARDOUS SUBSTANCES—Continued

APPENDIX A TO § 302.4—SEQUENTIAL CAS REGISTRY NUMBER LIST OF CERCLA HAZARDOUS SUBSTANCES—Continued

CASRN	Hazardous substance
506876	Ammonium carbonate.
506967	Acetyl bromide.
509148	Methane, tetranitro-.
	Tetranitromethane.
510156	Benzeneacetic acid, 4-chloro- $\alpha$ -chlorophenyl)- $\alpha$ -hydroxy-, ethyl ester. (4-Chlorobenzilate.
513495	sec-Butylamine.
528290	o-Dinitrobenzene.
532274	2-Chloroacetophenone.
534521	4,6-Dinitro-o-cresol, and salts. Phenol, 2-methyl-4,6-dinitro-, & salts.
540738	Hydrazine, 1,2-dimethyl-1,2-Dimethylhydrazine.
540841	2,2,4-Trimethylpentane.
540885	tert-Butyl acetate.
541093	Uranyl acetate.
541537	Dithiobiuret. Thioimidodicarbonic diamide [(H2N)C(S)]2NH.
541731	Benzene, 1,3-dichloro-m-Dichlorobenzene. 1,3-Dichlorobenzene.
542621	Barium cyanide.
542756	1-Propene, 1,3-dichloro-1,3-Dichloropropene.
542767	Propanenitrile, 3-chloro-3-Chloropropionitrile.
542881	Bis(chloromethyl)ether. Dichloromethyl ether. Methane, oxybis(chloro-.
543908	Cadmium acetate.
544183	Cobaltous formate.
544923	Copper cyanide Cu(CN).
554847	m-Nitrophenol.
557197	Nickel cyanide Ni(CN)2.
557211	Zinc cyanide Zn(CN)2. Zinc cyanide Zn(CN)2.
557346	Zinc acetate.
557415	Zinc formate.
563122	Ethion.
563688	Acetic acid, thallium(1+) salt. Thallium(I) acetate.
573568	2,6-Dinitrophenol.
584849	Benzene, 1,3-diisocyanatomethyl-. Toluene diisocyanate. 2,4-Toluene diisocyanate.
591082	Acetamide, N-(aminothioxomethyl)-1-Acetyl-2-thiourea.
592018	Calcium cyanide Ca(CN)2.
592041	Mercuric cyanide.
592858	Mercuric thiocyanate.
592870	Lead thiocyanate.
593602	Vinyl bromide.
594423	Methanesulfonyl chloride, trichloro-Trichloromethanesulfonyl chloride.
598312	Bromoacetone. 2-Propanone, 1-bromo-.
606202	Benzene, 2-methyl-1,3-dinitro-2,6-Dinitrotoluene.
608731	HEXACHLOROCYCLOHEXANE (all isomers).
608935	Benzene, pentachloro-. Pentachlorobenzene.
609198	3,4,5-Trichlorophenol.
610399	3,4-Dinitrotoluene.
615532	Carbamic acid, methylnitroso-, ethyl ester. N-Nitroso-N-methylurethane.
621647	Di-n-propylnitrosamine. 1-Propanamine, N-nitroso-N-propyl-.
624839	Methane, isocyanato-.

CASRN	Hazardous substance
	Methyl isocyanate.
625161	tert-Amyl acetate.
626380	sec-Amyl acetate.
628637	Amyl acetate.
628864	Fulminic acid, mercury(2+)salt. Mercury fulminate.
630104	Selenourea.
630206	Ethane, 1,1,1,2-tetrachloro-1,1,1,2-Tetrachloroethane.
631618	Ammonium acetate.
636215	Benzenamine, 2-methyl-, hydrochloride. o-Toluidine hydrochloride.
640197	Acetamide, 2-fluoro-Fluoroacetamide.
644644	Carbamic acid, dimethyl-1-[(dimethylamino)carbonyl]-5-methyl-1H-pyrazol-3-yl ester (Dimetilan).
680319	Hexamethylphosphoramide.
684935	N-Nitroso-N-methylurea. Urea, N-methyl-N-nitroso-.
692422	Arsine, diethyl-. Diethylarsine.
696286	Arsonous dichloride, phenyl-. Dichlorophenylarsine.
757584	Hexaethyl tetraphosphate. Tetraphosphoric acid, hexaethyl ester.
759739	N-Nitroso-N-ethylurea. Urea, N-ethyl-N-nitroso-.
764410	1,4-Dichloro-2-butene. 2-Butene, 1,4-dichloro-.
765344	Glycidylaldehyde. Oxiranecarboxaldehyde.
815827	Cupric tartrate.
822060	Hexamethylene-1,6-diisocyanate.
823405	Benzenediamine, ar-methyl-Toluenediamine. 2,4-Toluene diamine.
924163	N-Nitrosodi-n-butylamine. 1-Butanamine, N-butyl-N-nitroso-.
930552	N-Nitrosopyrrolidine. Pyrrolidine, 1-nitroso-.
933755	2,3,6-Trichlorophenol.
933788	2,3,5-Trichlorophenol.
959988	alpha-Endosulfan.
1024573	Heptachlor epoxide.
1031078	Endosulfan sulfate.
1066304	Chromic acetate.
1066337	Ammonium bicarbonate.
1072351	Lead stearate.
1111780	Ammonium carbamate.
1116547	Ethanol, 2,2'-(nitrosoimino)bis-. N-Nitrosodiethanolamine.
1120714	1,2-Oxathiolane, 2,2-dioxide. 1,3-Propane sultone.
1129415	Carbamic acid, methyl-, 3-methylphenyl ester (Metolcarb).
1185575	Ferric ammonium citrate.
1194656	Dichlobenil.
1300716	Xylenol.
1303282	Arsenic oxide As2O5. Arsenic pentoxide.
1303328	Arsenic disulfide.
1303339	Arsenic trisulfide.
1309644	Antimony trioxide.
1310583	Potassium hydroxide.
1310732	Sodium hydroxide.
1314325	Thallic oxide. Thallium oxide Tl2O3.
1314621	Vanadium oxide V2O5. Vanadium pentoxide.

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APPENDIX A TO § 302.4—SEQUENTIAL CAS REGISTRY NUMBER LIST OF CERCLA HAZARDOUS SUBSTANCES—Continued

APPENDIX A TO § 302.4—SEQUENTIAL CAS REGISTRY NUMBER LIST OF CERCLA HAZARDOUS SUBSTANCES—Continued

CASRN	Hazardous substance
1314803	Phosphorus pentasulfide. Phosphorus sulfide. Sulfur phosphide.
1314847	Zinc phosphide Zn <sub>3</sub> P <sub>2</sub> .
1314870	Lead sulfide.
1319728	2,4,5-T amines.
1319773	Cresol (cresylic acid). Cresols (isomers and mixture). Cresylic acid (isomers and mixture). Phenol, methyl-.
1320189	2,4-D Ester.
1321126	Nitrotoluene.
1327533	Arsenic oxide As <sub>2</sub> O <sub>3</sub> . Arsenic trioxide.
1330207	Benzene, dimethyl-.
Xylene.	
Xylene (mixed).	
Xylenes (isomers and mixture).	
1332076	Zinc borate.
1332214	Asbestos.
1333831	Sodium bifluoride.
1335326	Lead subacetate. Lead, bis(acetato-O)tetrahydroxytri.
1336216	Ammonium hydroxide.
1336363	Aroclors. PCBs. POLYCHLORINATED BIPHENYLS.
1338234	Methyl ethyl ketone peroxide. 2-Butanone peroxide.
1338245	Naphthenic acid.
1341497	Ammonium bifluoride.
1464535	1,2:3,4-Diepoxybutane. 2,2'-Bioxirane.
1563388	7-Benzofuranol, 2,3-dihydro-2,2-dimethyl- (Carbofuran phenol).
1563662	7-Benzofuranol, 2,3-dihydro-2,2-dimethyl-, methylcarbamate.
Carbofuran.	
1582098	Trifluralin.
1615801	Hydrazine, 1,2-diethyl-. N,N'-Diethylhydrazine.
1634044	Methyl tert-butyl ether.
1646884	Propanal, 2-methyl-2-(methylsulfonyl)-, O- [(methylamino)carbonyl] oxime (Aldicarb sulfone).
1746016	TCDD. 2,3,7,8-Tetrachlorodibenzo-p-dioxin.
1762954	Ammonium thiocyanate.
1863634	Ammonium benzoate.
1888717	Hexachloropropene. 1-Propene, 1,1,2,3,3,3-hexachloro-.
1918009	Dicamba.
1928387	2,4-D Ester.
1928478	2,4,5-T esters.
1928616	2,4-D Ester.
1929733	2,4-D Ester.

CASRN	Hazardous substance
2008460	2,4,5-T amines.
2032657	Mercaptodimethur. Methiocarb. Phenol, (3,5-dimethyl-4-(methylthio)-, methylcarbamate.
2303164	Carbamoithioic acid, bis(1-methylethyl)-, S-(2,3-dichloro-2-propenyl) ester. Diallate.
2303175	Carbamoithioic acid, bis(1-methylethyl)-, S-(2,3,3-trichloro-2-propenyl) ester (Triallate).
2312358	Propargite.
2545597	2,4,5-T esters.
2631370	Phenol, 3-methyl-5-(1-methylethyl)-, methyl carbamate (Promecarb).
2763964	3(2H)-Isoxazolone, 5-(aminomethyl)-. 5-(Aminomethyl)-3-isoxazolol.
2764729	Diquat
2921882	Chlorpyrifos.
2944674	Ferric ammonium oxalate.
2971382	2,4-D Ester.
3012655	Ammonium citrate, dibasic.
3164292	Ammonium tartrate.
3165933	Benzenamine, 4-chloro-2-methyl-, hydrochloride. 4-Chloro-o-toluidine, hydrochloride.
3251238	Cupric nitrate.
3288582	O,O-Diethyl S-methyl dithiophosphate. Phosphorodithioic acid, O,O-diethyl S-methyl ester.
3486359	Zinc carbonate.
3547044	DDE.
3689245	Tetraethyldithiopyrophosphate. Thiodiphosphoric acid, tetraethyl ester.
3813147	2,4,5-T amines.
4170303	Crotonaldehyde. 2-Butenal.
4549400	N-Nitrosomethylvinylamine. Vinylamine, N-methyl-N-nitroso-.
5344821	Thiourea, (2-chlorophenyl)-. 1-(o-Chlorophenyl)thiourea.
5893663	Cupric oxalate.
5952261	Ethanol, 2,2'-oxybis-, dicarbamate (Diethylene glycol, dicarbamate).
5972736	Ammonium oxalate.
6009707	Ammonium oxalate.
6369966	2,4,5-T amines.
6369977	2,4,5-T amines.
6533739	Carbonic acid, dithallium(1+) salt. Thallium(I) carbonate.
7005723	4-Chlorophenyl phenyl ether.
7421934	Endrin aldehyde.
7428480	Lead stearate.
7439921	Lead.
7439976	Mercury.
7440020	Nickel.
7440224	Silver.
7440235	Sodium.
7440280	Thallium.
7440360	Antimony.
7440382	Arsenic.
7440417	Beryllium. Beryllium powder.
7440439	Cadmium.
7440473	Chromium.
7440508	Copper.
7440666	Zinc.
7446084	Selenium dioxide. Selenium oxide.
7446142	Lead sulfate.
7446186	Sulfuric acid, dithallium(1+) salt.

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APPENDIX A TO § 302.4—SEQUENTIAL CAS REGISTRY NUMBER LIST OF CERCLA HAZARDOUS SUBSTANCES—Continued

APPENDIX A TO § 302.4—SEQUENTIAL CAS REGISTRY NUMBER LIST OF CERCLA HAZARDOUS SUBSTANCES—Continued

CASRN	Hazardous substance
7446277	Thallium(I) sulfate. Lead phosphate.
7447394	Phosphoric acid, lead(2+) salt (2:3). Cupric chloride.
7488564	Selenium sulfide SeS <sub>2</sub> .
7550450	Titanium tetrachloride.
7558794	Sodium phosphate, dibasic.
7601549	Sodium phosphate, tribasic.
7631892	Sodium arsenate.
7631905	Sodium bisulfite.
7632000	Sodium nitrite.
7645252	Lead arsenate.
7646857	Zinc chloride.
7647010	Hydrochloric acid. Hydrogen chloride.
7647189	Antimony pentachloride.
7664382	Phosphoric acid.
7664393	Hydrofluoric acid. Hydrogen fluoride.
7664417	Ammonia.
7664939	Sulfuric acid.
7681494	Sodium fluoride.
7681529	Sodium hypochlorite.
7697372	Nitric acid.
7699458	Zinc bromide.
7705080	Ferric chloride.
7718549	Nickel chloride.
7719122	Phosphorus trichloride.
7720787	Ferrous sulfate.
7722647	Potassium permanganate.
7723140	Phosphorus.
7733020	Zinc sulfate.
7738945	Chromic acid.
7758294	Sodium phosphate, tribasic.
7758943	Ferrous chloride.
7758954	Lead chloride.
7758987	Cupric sulfate.
7761888	Silver nitrate.
7773060	Ammonium sulfamate.
7775113	Sodium chromate.
7778394	Arsenic acid H <sub>3</sub> AsO <sub>4</sub> .
7778441	Calcium arsenate.
7778509	Potassium bichromate.
7778543	Calcium hypochlorite.
7779864	Zinc hydrosulfite.
7779886	Zinc nitrate.
7782414	Fluorine.
7782492	Selenium.
7782505	Chlorine.
7782630	Ferrous sulfate.
7782823	Sodium selenite.
7782867	Mercurous nitrate.
7783008	Selenious acid.
7783064	Hydrogen sulfide H <sub>2</sub> S.
7783359	Mercuric sulfate.
7783462	Lead fluoride.
7783495	Zinc fluoride.
7783508	Ferric fluoride.
7783564	Antimony trifluoride.
7784341	Arsenic trichloride.
7784409	Lead arsenate.
7784410	Potassium arsenate.
7784465	Sodium arsenite.
7785844	Sodium phosphate, tribasic.
7786347	Mevinphos.
7786814	Nickel sulfate.
7787475	Beryllium chloride.
7787497	Beryllium fluoride.
7787555	Beryllium nitrate.
7788989	Ammonium chromate.

CASRN	Hazardous substance
7789006	Potassium chromate.
7789062	Strontium chromate.
7789095	Ammonium bichromate.
7789426	Cadmium bromide.
7789437	Cobaltous bromide.
7789619	Antimony tribromide.
7790945	Chlorosulfonic acid.
7791120	Thallium chloride TlCl.
7803512	Hydrogen phosphide. Phosphine.
7803556	Ammonium vanadate. Vanadic acid, ammonium salt.
8001352	Chlorinated camphene.
	Toxaphene.
8003198	Dichloropropane—Dichloropropene (mixture).
8003347	Pyrethrins.
8014957	Sulfuric acid.
10022705	Sodium hypochlorite.
10025873	Phosphorus oxychloride.
10025919	Antimony trichloride.
10026116	Zirconium tetrachloride.
10028225	Ferric sulfate.
10031591	Sulfuric acid, dithallium(1+) salt. Thallium(I) sulfate.
10039324	Sodium phosphate, dibasic.
10043013	Aluminum sulfate.
10045893	Ferrous ammonium sulfate.
10045940	Mercuric nitrate.
10049055	Chromous chloride.
10099748	Lead nitrate.
10101538	Chromic sulfate.
10101630	Lead iodide.
10101890	Sodium phosphate, tribasic.
10102064	Uranyl nitrate.
10102188	Sodium selenite.
10102439	Nitric oxide.
10102440	Nitrogen oxide NO. Nitrogen dioxide. Nitrogen oxide NO <sub>2</sub> .
10102451	Nitric acid, thallium(1+) salt. Thallium(I) nitrate.
10102484	Lead arsenate.
10108642	Cadmium chloride.
10124502	Potassium arsenite.
10124568	Sodium phosphate, tribasic.
10140655	Sodium phosphate, dibasic.
10192300	Ammonium bisulfite.
10196040	Ammonium sulfite.
10361894	Sodium phosphate, tribasic.
10380297	Cupric sulfate, ammoniated.
10415755	Mercurous nitrate.
10421484	Ferric nitrate.
10544726	Nitrogen dioxide. Nitrogen oxide NO <sub>2</sub> .
10588019	Sodium bichromate.
10605217	Carbamic acid, 1H-benzimidazol-2-yl, methyl ester (Carbendazim).
11096825	Aroclor 1260.
11097691	Aroclor 1254.
11104282	Aroclor 1221.
11115745	Chromic acid.
11141165	Aroclor 1232.
12002038	Cupric acetoarsenite.
12039520	Selenious acid, dithallium(1+) salt.
	Thallium (I) selenite.
12054487	Nickel hydroxide.

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CASRN	Hazardous substance
12125018	Ammonium fluoride.
12125029	Ammonium chloride.
12135761	Ammonium sulfide.
12672296	Aroclor 1248.
12674112	Aroclor 1016.
12771083	Sulfur monochloride.
13463393	Nickel carbonyl Ni(CO) <sub>n</sub> , (T-4)-
13560991	2,4,5-T salts.
13597994	Beryllium nitrate.
13746899	Zirconium nitrate.
13765190	Calcium chromate. Chromic acid H <sub>2</sub> CrO <sub>4</sub> , calcium salt.
13814965	Lead fluoborate.
13826830	Ammonium fluoborate.
13952846	sec-Butylamine.
14017415	Cobaltous sulfamate.
14216752	Nickel nitrate.
14258492	Ammonium oxalate.
14307358	Lithium chromate.
14307438	Ammonium tartrate.
14639975	Zinc ammonium chloride.
14639986	Zinc ammonium chloride.
14644612	Zirconium sulfate.
15339363	Manganese, bis(dimethylcarbomdithioato-S,S')- (Manganese dimethyldithiocarbamate).
15699180	Nickel ammonium sulfate.
15739807	Lead sulfate.
15950660	2,3,4-Trichlorophenol.
16721805	Sodium hydrosulfide.
16752775	Ethanimidothioic acid, N- [[[(methylamino)carbonyl]oxy]-, methyl ester.
	Methomyl.
16871719	Zinc silicofluoride.
16919190	Ammonium silicofluoride.
16923958	Zirconium potassium fluoride.
17702577	Methanimidamide, N,N-dimethyl-N'-[2-methyl-4- [[[(methylamino)carbonyl]oxy]phenyl]- (Formparanate).
17804352	Carbamic acid, [1-[(butylamino)carbonyl]-1H- benzimidazol-2-yl]-, methyl ester (Benomy).
18883664	D-Glucose, 2-deoxy-2[[[(methylnitrosoamino)-car- bonyl]amino]-.
	Glucopyranose, 2-deoxy- 2-(3- methyl- 3- nitrosou- reido)-, D-.
	Streptozotocin.
20816120	Osmium oxide OsO <sub>4</sub> , (T-4)-.
20830813	Daunomycin. 5,12-Naphthacenedione, 8-acetyl-10-[(3-amino- 2,3,6-trideoxy-alpha-L-lyxo- hexopyranosyl)oxy]-7,8,9,10-tetrahydro- 6,8,11-trihydroxy-1-methoxy-, (8S-cis)-.
20859738	Aluminum phosphide.
22781233	1,3-Benzodioxol-4-ol, 2,2-dimethyl-, methyl car- bamate (Bendiocarb).
22961826	1,3-Benzodioxol-4-ol, 2,2-dimethyl-, (Bendiocarb phenol).

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CASRN	Hazardous substance
23135220	Ethanimidothioic acid, 2-(dimethylamino)-N- [[[(methylamino)carbonyl]oxy]-2-oxo-, methyl ester (Oxamy).
23422539	Methanimidamide, N,N-dimethyl-N'-[3- [[[(methylamino)carbonyl]oxy]phenyl]-, monohydrochloride (Formetanate hydro- chloride).
23564058	Carbamic acid, [1,2- phenylenebis(iminocarbonothioyl)]bis-, di- methyl ester (Thiophanate-methyl).
23950585	Benzamide, 3,5-dichloro-N-(1,1- dimethyl-2- propynyl)-. Pronamide.
25154545	Dinitrobenzene (mixed).
25154556	Nitrophenol (mixed).
25155300	Sodium dodecylbenzenesulfonate.
25167822	Trichlorophenol.
25168154	2,4,5-T esters.
25168267	2,4-D Ester.
25321146	Dinitrotoluene.
25321226	Dichlorobenzene.
25376458	Benzenediamine, ar-methyl-. Toluenediamine. 2,4-Toluene diamine.
25550587	Dinitrophenol.
26264062	Calcium dodecylbenzenesulfonate.
26419738	1,3-Dithiolane-2-carboxaldehyde, 2,4-dimethyl- O-[(methylamino)carbonyl]oxime (Tirpate).
26471625	Benzene, 1,3-diisocyanatomethyl-. Toluene diisocyanate. 2,4-Toluene diisocyanate.
26628228	Sodium azide.
26638197	Dichloropropane.
26952238	Dichloropropene.
27176870	Dodecylbenzenesulfonic acid.
27323417	Triethanolamine dodecylbenzene sulfonate.
27774136	Vanady sulfate.
28300745	Antimony potassium tartrate.
30525894	Paraformaldehyde.
30558431	Ethanimidothioic acid, 2-(dimethylamino)-N-hy- droxy-2-oxo-, methyl ester (A2213).
32534955	2,4,5-TP esters.
33213659	beta - Endosulfan.
36478769	Uranyl nitrate.
37211055	Nickel chloride.
39196184	Thiofanox. 2-Butanone, 3,3-dimethyl-1-(methylthio)-,O- [[[(methylamino)carbonyl] oxime].
42504461	Isopropanolamine dodecylbenzenesulfonate.
52628258	Zinc ammonium chloride.
52652592	Lead stearate.
52740166	Calcium arsenite.
52888809	Carbamothioic acid, dipropyl-, S-(phenylmethyl) ester (Prosulfocarb).
53467111	2,4-D Ester.
53469219	Aroclor 1242.
55285148	Carbamic acid, [[(dibutylamino)thio]methyl-, 2,3- dihydro-2,2-dimethyl-7-benzofuranyl ester (Carbosulfan).
55488874	Ferric ammonium oxalate.
56189094	Lead stearate.
59669260	Ethanimidothioic acid, N,N'- [thiobis(methylimino)carbonyloxy]]bis-, di- methyl ester (Thiodicarb).
61792072	2,4,5-T esters.

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APPENDIX B TO § 302.4—RADIONUCLIDES

APPENDIX B TO § 302.4—RADIONUCLIDES—  
Continued

Radionuclide	Atomic Number	Final RQ Ci (Bq)
Radionuclides@		1&(3.7E 10)
Actinium-224	89	100 (3.7E 12)
Actinium-225	89	1 (3.7E 10)
Actinium-226	89	10 (3.7E 11)
Actinium-227	89	0.001 (3.7E 7)
Actinium-228	89	10 (3.7E 11)
Aluminum-26	13	10 (3.7E 11)
Americium-237	95	1000 (3.7E 13)
Americium-238	95	100 (3.7E 12)
Americium-239	95	100 (3.7E 12)
Americium-240	95	10 (3.7E 11)
Americium-241	95	0.01 (3.7E 8)
Americium-242m	95	0.01 (3.7E 8)
Americium-242	95	100 (3.7E 12)
Americium-243	95	0.01 (3.7E 8)
Americium-244m	95	1000 (3.7E 13)
Americium-244	95	10 (3.7E 11)
Americium-245	95	1000 (3.7E 13)
Americium-246m	95	1000 (3.7E 13)
Americium-246	95	1000 (3.7E 13)
Antimony-115	51	1000 (3.7E 13)
Antimony-116m	51	100 (3.7E 12)
Antimony-116	51	1000 (3.7E 13)
Antimony-117	51	1000 (3.7E 13)
Antimony-118m	51	10 (3.7E 11)
Antimony-119	51	1000 (3.7E 13)
Antimony-120 (16 min)	51	1000 (3.7E 13)
Antimony-120 (5.76 day)	51	10 (3.7E 11)
Antimony-122	51	10 (3.7E 11)
Antimony-124m	51	1000 (3.7E 13)
Antimony-124	51	10 (3.7E 11)
Antimony-125	51	10 (3.7E 11)
Antimony-126m	51	1000 (3.7E 13)
Antimony-126	51	10 (3.7E 11)
Antimony-127	51	10 (3.7E 11)
Antimony-128 (10.4 min)	51	1000 (3.7E 13)
Antimony-128 (9.01 hr)	51	10 (3.7E 11)
Antimony-129	51	100 (3.7E 12)
Antimony-130	51	100 (3.7E 12)
Antimony-131	51	1000 (3.7E 13)
Argon-39	18	1000 (3.7E 13)
Argon-41	18	10 (3.7E 11)
Arsenic-69	33	1000 (3.7E 13)
Arsenic-70	33	100 (3.7E 12)
Arsenic-71	33	100 (3.7E 12)
Arsenic-72	33	10 (3.7E 11)
Arsenic-73	33	100 (3.7E 12)
Arsenic-74	33	10 (3.7E 11)
Arsenic-76	33	100 (3.7E 12)
Arsenic-77	33	1000 (3.7E 13)
Arsenic-78	33	100 (3.7E 12)
Astatine-207	85	100 (3.7E 12)
Astatine-211	85	100 (3.7E 12)
Barium-126	56	1000 (3.7E 13)
Barium-128	56	10 (3.7E 11)
Barium-131m	56	1000 (3.7E 13)
Barium-131	56	10 (3.7E 11)
Barium-133m	56	100 (3.7E 12)
Barium-133	56	10 (3.7E 11)
Barium-135m	56	1000 (3.7E 13)
Barium-139	56	1000 (3.7E 13)
Barium-140	56	10 (3.7E 11)
Barium-141	56	1000 (3.7E 13)
Barium-142	56	1000 (3.7E 13)
Berkelium-245	97	100 (3.7E 12)
Berkelium-246	97	10 (3.7E 11)
Berkelium-247	97	0.01 (3.7E 8)
Berkelium-249	97	1 (3.7E 10)
Berkelium-250	97	100 (3.7E 12)
Beryllium-7	4	100 (3.7E 12)
Beryllium-10	4	1 (3.7E 10)

Radionuclide	Atomic Number	Final RQ Ci (Bq)
Bismuth-200	83	100 (3.7E 12)
Bismuth-201	83	100 (3.7E 12)
Bismuth-202	83	1000 (3.7E 13)
Bismuth-203	83	10 (3.7E 11)
Bismuth-205	83	10 (3.7E 11)
Bismuth-206	83	10 (3.7E 11)
Bismuth-207	83	10 (3.7E 11)
Bismuth-210m	83	0.1 (3.7E 9)
Bismuth-210	83	10 (3.7E 11)
Bismuth-212	83	100 (3.7E 12)
Bismuth-213	83	100 (3.7E 12)
Bismuth-214	83	100 (3.7E 12)
Bromine-74m	35	100 (3.7E 12)
Bromine-74	35	100 (3.7E 12)
Bromine-75	35	100 (3.7E 12)
Bromine-76	35	10 (3.7E 11)
Bromine-77	35	100 (3.7E 12)
Bromine-80m	35	1000 (3.7E 13)
Bromine-80	35	1000 (3.7E 13)
Bromine-82	35	10 (3.7E 11)
Bromine-83	35	1000 (3.7E 13)
Bromine-84	35	100 (3.7E 12)
Cadmium-104	48	1000 (3.7E 13)
Cadmium-107	48	1000 (3.7E 13)
Cadmium-109	48	1 (3.7E 10)
Cadmium-113m	48	0.1 (3.7E 9)
Cadmium-113	48	0.1 (3.7E 9)
Cadmium-115m	48	10 (3.7E 11)
Cadmium-115	48	100 (3.7E 12)
Cadmium-117m	48	10 (3.7E 11)
Cadmium-117	48	100 (3.7E 12)
Calcium-41	20	10 (3.7E 11)
Calcium-45	20	10 (3.7E 11)
Calcium-47	20	10 (3.7E 11)
Californium-244	98	1000 (3.7E 13)
Californium-246	98	10 (3.7E 11)
Californium-248	98	0.1 (3.7E 9)
Californium-249	98	0.01 (3.7E 8)
Californium-250	98	0.01 (3.7E 8)
Californium-251	98	0.01 (3.7E 8)
Californium-252	98	0.1 (3.7E 9)
Californium-253	98	10 (3.7E 11)
Californium-254	98	0.1 (3.7E 9)
Carbon-11	6	1000 (3.7E 13)
Carbon-14	6	10 (3.7E 11)
Cerium-134	58	10 (3.7E 11)
Cerium-135	58	10 (3.7E 11)
Cerium-137m	58	100 (3.7E 12)
Cerium-137	58	1000 (3.7E 13)
Cerium-139	58	100 (3.7E 12)
Cerium-141	58	10 (3.7E 11)
Cerium-143	58	100 (3.7E 12)
Cerium-144	58	1 (3.7E 10)
Cesium-125	55	1000 (3.7E 13)
Cesium-127	55	100 (3.7E 12)
Cesium-129	55	100 (3.7E 12)
Cesium-130	55	1000 (3.7E 13)
Cesium-131	55	1000 (3.7E 13)
Cesium-132	55	10 (3.7E 11)
Cesium-134m	55	1000 (3.7E 13)
Cesium-134	55	1 (3.7E 10)
Cesium-135m	55	100 (3.7E 12)
Cesium-135	55	10 (3.7E 11)
Cesium-136	55	10 (3.7E 11)
Cesium-137	55	1 (3.7E 10)
Cesium-138	55	100 (3.7E 12)
Chlorine-36	17	10 (3.7E 11)
Chlorine-38	17	100 (3.7E 12)
Chlorine-39	17	100 (3.7E 12)
Chromium-48	24	100 (3.7E 12)

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APPENDIX B TO § 302.4—RADIONUCLIDES—  
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APPENDIX B TO § 302.4—RADIONUCLIDES—  
Continued

Radionuclide	Atomic Number	Final RQ Ci (Bq)
Chromium-49	24	1000 (3.7E 13)
Chromium-51	24	1000 (3.7E 13)
Cobalt-55	27	10 (3.7E 11)
Cobalt-56	27	10 (3.7E 11)
Cobalt-57	27	100 (3.7E 12)
Cobalt-58m	27	1000 (3.7E 13)
Cobalt-58	27	10 (3.7E 11)
Cobalt-60m	27	1000 (3.7E 13)
Cobalt-60	27	10 (3.7E 11)
Cobalt-61	27	1000 (3.7E 13)
Cobalt-62m	27	1000 (3.7E 13)
Copper-60	29	100 (3.7E 12)
Copper-61	29	100 (3.7E 12)
Copper-64	29	1000 (3.7E 13)
Copper-67	29	100 (3.7E 12)
Curium-238	96	1000 (3.7E 13)
Curium-240	96	1 (3.7E 10)
Curium-241	96	10 (3.7E 11)
Curium-242	96	1 (3.7E 10)
Curium-243	96	0.01 (3.7E 8)
Curium-244	96	0.01 (3.7E 8)
Curium-245	96	0.01 (3.7E 8)
Curium-246	96	0.01 (3.7E 8)
Curium-247	96	0.01 (3.7E 8)
Curium-248	96	0.001 (3.7E 7)
Curium-249	96	1000 (3.7E 13)
Dysprosium-155	66	100 (3.7E 12)
Dysprosium-157	66	100 (3.7E 12)
Dysprosium-159	66	100 (3.7E 12)
Dysprosium-165	66	1000 (3.7E 13)
Dysprosium-166	66	10 (3.7E 11)
Einsteinium-250	99	10 (3.7E 11)
Einsteinium-251	99	1000 (3.7E 13)
Einsteinium-253	99	10 (3.7E 11)
Einsteinium-254m	99	1 (3.7E 10)
Einsteinium-254	99	0.1 (3.7E 9)
Erbium-161	68	100 (3.7E 12)
Erbium-165	68	1000 (3.7E 13)
Erbium-169	68	100 (3.7E 12)
Erbium-171	68	100 (3.7E 12)
Erbium-172	68	10 (3.7E 11)
Europium-145	63	10 (3.7E 11)
Europium-146	63	10 (3.7E 11)
Europium-147	63	10 (3.7E 11)
Europium-148	63	10 (3.7E 11)
Europium-149	63	100 (3.7E 12)
Europium-150 (12.6 hr)	63	1000 (3.7E 13)
Europium-150 (34.2 yr)	63	10 (3.7E 11)
Europium-152m	63	100 (3.7E 12)
Europium-152	63	10 (3.7E 11)
Europium-154	63	10 (3.7E 11)
Europium-155	63	10 (3.7E 11)
Europium-156	63	10 (3.7E 11)
Europium-157	63	10 (3.7E 11)
Europium-158	63	1000 (3.7E 13)
Fermium-252	100	10 (3.7E 11)
Fermium-253	100	10 (3.7E 11)
Fermium-254	100	100 (3.7E 12)
Fermium-255	100	100 (3.7E 12)
Fermium-257	100	1 (3.7E 10)
Fluorine-18	9	1000 (3.7E 13)
Francium-222	87	100 (3.7E 12)
Francium-223	87	100 (3.7E 12)
Gadolinium-145	64	100 (3.7E 12)
Gadolinium-146	64	10 (3.7E 11)
Gadolinium-147	64	10 (3.7E 11)
Gadolinium-148	64	0.001 (3.7E 7)
Gadolinium-149	64	100 (3.7E 12)
Gadolinium-151	64	100 (3.7E 12)
Gadolinium-152	64	0.001 (3.7E 7)

Radionuclide	Atomic Number	Final RQ Ci (Bq)
Gadolinium-153	64	10 (3.7E 11)
Gadolinium-159	64	1000 (3.7E 13)
Gallium-65	31	1000 (3.7E 13)
Gallium-66	31	10 (3.7E 11)
Gallium-67	31	100 (3.7E 12)
Gallium-68	31	1000 (3.7E 13)
Gallium-70	31	1000 (3.7E 13)
Gallium-72	31	10 (3.7E 11)
Gallium-73	31	100 (3.7E 12)
Germanium-66	32	100 (3.7E 12)
Germanium-67	32	1000 (3.7E 13)
Germanium-68	32	10 (3.7E 11)
Germanium-69	32	10 (3.7E 11)
Germanium-71	32	1000 (3.7E 13)
Germanium-75	32	1000 (3.7E 13)
Germanium-77	32	10 (3.7E 11)
Germanium-78	32	1000 (3.7E 13)
Gold-193	79	100 (3.7E 12)
Gold-194	79	10 (3.7E 11)
Gold-195	79	100 (3.7E 12)
Gold-198m	79	10 (3.7E 11)
Gold-198	79	100 (3.7E 12)
Gold-199	79	100 (3.7E 12)
Gold-200m	79	10 (3.7E 11)
Gold-200	79	1000 (3.7E 13)
Gold-201	79	1000 (3.7E 13)
Hafnium-170	72	100 (3.7E 12)
Hafnium-172	72	1 (3.7E 10)
Hafnium-173	72	100 (3.7E 12)
Hafnium-175	72	100 (3.7E 12)
Hafnium-177m	72	1000 (3.7E 13)
Hafnium-178m	72	0.1 (3.7E 9)
Hafnium-179m	72	100 (3.7E 12)
Hafnium-180m	72	100 (3.7E 12)
Hafnium-181	72	10 (3.7E 11)
Hafnium-182m	72	100 (3.7E 12)
Hafnium-182	72	0.1 (3.7E 9)
Hafnium-183	72	100 (3.7E 12)
Hafnium-184	72	100 (3.7E 12)
Holmium-155	67	1000 (3.7E 13)
Holmium-157	67	1000 (3.7E 13)
Holmium-159	67	1000 (3.7E 13)
Holmium-161	67	1000 (3.7E 13)
Holmium-162m	67	1000 (3.7E 13)
Holmium-162	67	1000 (3.7E 13)
Holmium-164m	67	1000 (3.7E 13)
Holmium-164	67	1000 (3.7E 13)
Holmium-166m	67	1 (3.7E 10)
Holmium-166	67	100 (3.7E 12)
Holmium-167	67	100 (3.7E 12)
Hydrogen-3	1	100 (3.7E 12)
Indium-109	49	100 (3.7E 12)
Indium-110 (69.1 min)	49	100 (3.7E 12)
Indium-110 (4.9 hr)	49	10 (3.7E 11)
Indium-111	49	100 (3.7E 12)
Indium-112	49	1000 (3.7E 13)
Indium-113m	49	1000 (3.7E 13)
Indium-114m	49	10 (3.7E 11)
Indium-115m	49	100 (3.7E 12)
Indium-115	49	0.1 (3.7E 9)
Indium-116m	49	100 (3.7E 12)
Indium-117m	49	100 (3.7E 12)
Indium-117	49	1000 (3.7E 13)
Indium-119m	49	1000 (3.7E 13)
Iodine-120m	53	100 (3.7E 12)
Iodine-120	53	10 (3.7E 11)
Iodine-121	53	100 (3.7E 12)
Iodine-123	53	10 (3.7E 11)
Iodine-124	53	0.1 (3.7E 9)
Iodine-125	53	0.01 (3.7E 8)

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APPENDIX B TO § 302.4—RADIONUCLIDES—  
Continued

APPENDIX B TO § 302.4—RADIONUCLIDES—  
Continued

Radionuclide	Atomic Number	Final RQ Ci (Bq)
Iodine-126	53	0.01 (3.7E 8)
Iodine-128	53	1000 (3.7E 13)
Iodine-129	53	0.001 (3.7E 7)
Iodine-130	53	1 (3.7E 10)
Iodine-131	53	0.01 (3.7E 8)
Iodine-132m	53	10 (3.7E 11)
Iodine-132	53	10 (3.7E 11)
Iodine-133	53	0.1 (3.7E 9)
Iodine-134	53	100 (3.7E 12)
Iodine-135	53	10 (3.7E 11)
Iridium-182	77	1000 (3.7E 13)
Iridium-184	77	100 (3.7E 12)
Iridium-185	77	100 (3.7E 12)
Iridium-186	77	10 (3.7E 11)
Iridium-187	77	100 (3.7E 12)
Iridium-188	77	10 (3.7E 11)
Iridium-189	77	100 (3.7E 12)
Iridium-190m	77	1000 (3.7E 13)
Iridium-190	77	10 (3.7E 11)
Iridium-192m	77	100 (3.7E 12)
Iridium-192	77	10 (3.7E 11)
Iridium-194m	77	10 (3.7E 11)
Iridium-194	77	100 (3.7E 12)
Iridium-195m	77	100 (3.7E 12)
Iridium-195	77	1000 (3.7E 13)
Iron-52	26	100 (3.7E 12)
Iron-55	26	100 (3.7E 12)
Iron-59	26	10 (3.7E 11)
Iron-60	26	0.1 (3.7E 9)
Krypton-74	36	10 (3.7E 11)
Krypton-76	36	10 (3.7E 11)
Krypton-77	36	10 (3.7E 11)
Krypton-79	36	100 (3.7E 12)
Krypton-81	36	1000 (3.7E 13)
Krypton-83m	36	1000 (3.7E 13)
Krypton-85m	36	100 (3.7E 12)
Krypton-85	36	1000 (3.7E 13)
Krypton-87	36	10 (3.7E 11)
Krypton-88	36	10 (3.7E 11)
Lanthanum-131	57	1000 (3.7E 13)
Lanthanum-132	57	100 (3.7E 12)
Lanthanum-135	57	1000 (3.7E 13)
Lanthanum-137	57	10 (3.7E 11)
Lanthanum-138	57	1 (3.7E 10)
Lanthanum-140	57	10 (3.7E 11)
Lanthanum-141	57	1000 (3.7E 13)
Lanthanum-142	57	100 (3.7E 12)
Lanthanum-143	57	1000 (3.7E 13)
Lead-195m	82	1000 (3.7E 13)
Lead-198	82	100 (3.7E 12)
Lead-199	82	100 (3.7E 12)
Lead-200	82	100 (3.7E 12)
Lead-201	82	100 (3.7E 12)
Lead-202m	82	10 (3.7E 11)
Lead-202	82	1 (3.7E 10)
Lead-203	82	100 (3.7E 12)
Lead-205	82	100 (3.7E 12)
Lead-209	82	1000 (3.7E 13)
Lead-210	82	0.01 (3.7E 8)
Lead-211	82	100 (3.7E 12)
Lead-212	82	10 (3.7E 11)
Lead-214	82	100 (3.7E 12)
Lutetium-169	71	10 (3.7E 11)
Lutetium-170	71	10 (3.7E 11)
Lutetium-171	71	10 (3.7E 11)
Lutetium-172	71	10 (3.7E 11)
Lutetium-173	71	100 (3.7E 12)
Lutetium-174m	71	10 (3.7E 11)
Lutetium-174	71	10 (3.7E 11)
Lutetium-176m	71	1000 (3.7E 13)

Radionuclide	Atomic Number	Final RQ Ci (Bq)
Lutetium-176	71	1 (3.7E 10)
Lutetium-177m	71	10 (3.7E 11)
Lutetium-177	71	100 (3.7E 12)
Lutetium-178m	71	1000 (3.7E 13)
Lutetium-178	71	1000 (3.7E 13)
Lutetium-179	71	1000 (3.7E 13)
Magnesium-28	12	10 (3.7E 11)
Manganese-51	25	1000 (3.7E 13)
Manganese-52m	25	1000 (3.7E 13)
Manganese-52	25	10 (3.7E 11)
Manganese-53	25	1000 (3.7E 13)
Manganese-54	25	10 (3.7E 11)
Manganese-56	25	100 (3.7E 12)
Mendelevium-257	101	100 (3.7E 12)
Mendelevium-258	101	1 (3.7E 10)
Mercury-193m	80	10 (3.7E 11)
Mercury-193	80	100 (3.7E 12)
Mercury-194	80	0.1 (3.7E 9)
Mercury-195m	80	100 (3.7E 12)
Mercury-195	80	100 (3.7E 12)
Mercury-197m	80	1000 (3.7E 13)
Mercury-197	80	1000 (3.7E 13)
Mercury-199m	80	1000 (3.7E 13)
Mercury-203	80	10 (3.7E 11)
Molybdenum-90	42	100 (3.7E 12)
Molybdenum-93m	42	10 (3.7E 11)
Molybdenum-93	42	100 (3.7E 12)
Molybdenum-99	42	100 (3.7E 12)
Molybdenum-101	42	1000 (3.7E 13)
Neodymium-136	60	1000 (3.7E 13)
Neodymium-138	60	1000 (3.7E 13)
Neodymium-139m	60	100 (3.7E 12)
Neodymium-139	60	1000 (3.7E 13)
Neodymium-141	60	1000 (3.7E 13)
Neodymium-147	60	10 (3.7E 11)
Neodymium-149	60	100 (3.7E 12)
Neodymium-151	60	1000 (3.7E 13)
Neptunium-232	93	1000 (3.7E 13)
Neptunium-233	93	1000 (3.7E 13)
Neptunium-234	93	10 (3.7E 11)
Neptunium-235	93	1000 (3.7E 13)
Neptunium-236 (1.2 E 5 yr)	93	0.1 (3.7E 9)
Neptunium-236 (22.5 hr)	93	100 (3.7E 12)
Neptunium-237	93	0.01 (3.7E 8)
Neptunium-238	93	10 (3.7E 11)
Neptunium-239	93	100 (3.7E 12)
Neptunium-240	93	100 (3.7E 12)
Nickel-56	28	10 (3.7E 11)
Nickel-57	28	10 (3.7E 11)
Nickel-59	28	100 (3.7E 12)
Nickel-63	28	100 (3.7E 12)
Nickel-65	28	100 (3.7E 12)
Nickel-66	28	10 (3.7E 11)
Niobium-88	41	100 (3.7E 12)
Niobium-89 (66 min)	41	100 (3.7E 12)
Niobium-89 (122 min)	41	100 (3.7E 12)
Niobium-90	41	10 (3.7E 11)
Niobium-93m	41	100 (3.7E 12)
Niobium-94	41	10 (3.7E 11)
Niobium-95m	41	100 (3.7E 12)
Niobium-95	41	10 (3.7E 11)
Niobium-96	41	10 (3.7E 11)
Niobium-97	41	100 (3.7E 12)
Niobium-98	41	1000 (3.7E 13)
Osmium-180	76	1000 (3.7E 13)
Osmium-181	76	100 (3.7E 12)
Osmium-182	76	100 (3.7E 12)
Osmium-185	76	10 (3.7E 11)
Osmium-189m	76	1000 (3.7E 13)
Osmium-191m	76	1000 (3.7E 13)

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APPENDIX B TO § 302.4—RADIONUCLIDES—  
Continued

APPENDIX B TO § 302.4—RADIONUCLIDES—  
Continued

Radionuclide	Atomic Number	Final RQ Ci (Bq)
Osmium-191	76	100 (3.7E 12)
Osmium-193	76	100 (3.7E 12)
Osmium-194	76	1 (3.7E 10)
Palladium-100	46	100 (3.7E 12)
Palladium-101	46	100 (3.7E 12)
Palladium-103	46	100 (3.7E 12)
Palladium-107	46	100 (3.7E 12)
Palladium-109	46	1000 (3.7E 13)
Phosphorus-32	15	0.1 (3.7E 9)
Phosphorus-33	15	1 (3.7E 10)
Platinum-186	78	100 (3.7E 12)
Platinum-188	78	100 (3.7E 12)
Platinum-189	78	100 (3.7E 12)
Platinum-191	78	100 (3.7E 12)
Platinum-193m	78	100 (3.7E 12)
Platinum-193	78	1000 (3.7E 13)
Platinum-195m	78	100 (3.7E 12)
Platinum-197m	78	1000 (3.7E 13)
Platinum-197	78	1000 (3.7E 13)
Platinum-199	78	1000 (3.7E 13)
Platinum-200	78	100 (3.7E 12)
Plutonium-234	94	1000 (3.7E 13)
Plutonium-235	94	1000 (3.7E 13)
Plutonium-236	94	0.1 (3.7E 9)
Plutonium-237	94	1000 (3.7E 13)
Plutonium-238	94	0.01 (3.7E 8)
Plutonium-239	94	0.01 (3.7E 8)
Plutonium-240	94	0.01 (3.7E 8)
Plutonium-241	94	1 (3.7E 10)
Plutonium-242	94	0.01 (3.7E 8)
Plutonium-243	94	1000 (3.7E 13)
Plutonium-244	94	0.01 (3.7E 8)
Plutonium-245	94	100 (3.7E 12)
Polonium-203	84	100 (3.7E 12)
Polonium-205	84	100 (3.7E 12)
Polonium-207	84	10 (3.7E 11)
Polonium-210	84	0.01 (3.7E 8)
Potassium-40	19	1 (3.7E 10)
Potassium-42	19	100 (3.7E 12)
Potassium-43	19	10 (3.7E 11)
Potassium-44	19	100 (3.7E 12)
Potassium-45	19	1000 (3.7E 13)
Praseodymium-136	59	1000 (3.7E 13)
Praseodymium-137	59	1000 (3.7E 13)
Praseodymium-138m	59	100 (3.7E 12)
Praseodymium-139	59	1000 (3.7E 13)
Praseodymium-142m	59	1000 (3.7E 13)
Praseodymium-142	59	100 (3.7E 12)
Praseodymium-143	59	10 (3.7E 11)
Praseodymium-144	59	1000 (3.7E 13)
Praseodymium-145	59	1000 (3.7E 13)
Praseodymium-147	59	1000 (3.7E 13)
Promethium-141	61	1000 (3.7E 13)
Promethium-143	61	100 (3.7E 12)
Promethium-144	61	10 (3.7E 11)
Promethium-145	61	100 (3.7E 12)
Promethium-146	61	10 (3.7E 11)
Promethium-147	61	10 (3.7E 11)
Promethium-148m	61	10 (3.7E 11)
Promethium-148	61	10 (3.7E 11)
Promethium-149	61	100 (3.7E 12)
Promethium-150	61	100 (3.7E 12)
Promethium-151	61	100 (3.7E 12)
Protactinium-227	91	100 (3.7E 12)
Protactinium-228	91	10 (3.7E 11)
Protactinium-230	91	10 (3.7E 11)
Protactinium-231	91	0.01 (3.7E 8)
Protactinium-232	91	10 (3.7E 11)
Protactinium-233	91	100 (3.7E 12)
Protactinium-234	91	10 (3.7E 11)

Radionuclide	Atomic Number	Final RQ Ci (Bq)
Radium-223	88	1 (3.7E 10)
Radium-224	88	10 (3.7E 11)
Radium-225	88	1 (3.7E 10)
Radium-226 $\phi$	88	0.1 (3.7E 9)
Radium-227	88	1000 (3.7E 13)
Radium-228	88	0.1 (3.7E 9)
Radon-220	86	0.1 (3.7E 9)
Radon-222	86	0.1 (3.7E 9)
Rhenium-177	75	1000 (3.7E 13)
Rhenium-178	75	1000 (3.7E 13)
Rhenium-181	75	100 (3.7E 12)
Rhenium-182 (12.7 hr)	75	10 (3.7E 11)
Rhenium-182 (64.0 hr)	75	10 (3.7E 11)
Rhenium-184m	75	10 (3.7E 11)
Rhenium-184	75	10 (3.7E 11)
Rhenium-186m	75	10 (3.7E 11)
Rhenium-186	75	100 (3.7E 12)
Rhenium-187	75	1000 (3.7E 13)
Rhenium-188m	75	1000 (3.7E 13)
Rhenium-188	75	1000 (3.7E 13)
Rhenium-189	75	1000 (3.7E 13)
Rhodium-99m	45	100 (3.7E 12)
Rhodium-99	45	10 (3.7E 11)
Rhodium-100	45	10 (3.7E 11)
Rhodium-101m	45	100 (3.7E 12)
Rhodium-101	45	10 (3.7E 11)
Rhodium-102m	45	10 (3.7E 11)
Rhodium-102	45	10 (3.7E 11)
Rhodium-103m	45	1000 (3.7E 13)
Rhodium-105	45	100 (3.7E 12)
Rhodium-106m	45	10 (3.7E 11)
Rhodium-107	45	1000 (3.7E 13)
Rubidium-79	37	1000 (3.7E 13)
Rubidium-81m	37	1000 (3.7E 13)
Rubidium-81	37	100 (3.7E 12)
Rubidium-82m	37	10 (3.7E 11)
Rubidium-83	37	10 (3.7E 11)
Rubidium-84	37	10 (3.7E 11)
Rubidium-86	37	10 (3.7E 11)
Rubidium-88	37	1000 (3.7E 13)
Rubidium-89	37	1000 (3.7E 13)
Rubidium-87	37	10 (3.7E 11)
Ruthenium-94	44	1000 (3.7E 13)
Ruthenium-97	44	100 (3.7E 12)
Ruthenium-103	44	10 (3.7E 11)
Ruthenium-105	44	100 (3.7E 12)
Ruthenium-106	44	1 (3.7E 10)
Samarium-141m	62	1000 (3.7E 13)
Samarium-141	62	1000 (3.7E 13)
Samarium-142	62	1000 (3.7E 13)
Samarium-145	62	100 (3.7E 12)
Samarium-146	62	0.01 (3.7E 8)
Samarium-147	62	0.01 (3.7E 8)
Samarium-151	62	10 (3.7E 11)
Samarium-153	62	100 (3.7E 12)
Samarium-155	62	1000 (3.7E 13)
Samarium-156	62	100 (3.7E 12)
Scandium-43	21	1000 (3.7E 13)
Scandium-44m	21	10 (3.7E 11)
Scandium-44	21	100 (3.7E 12)
Scandium-46	21	10 (3.7E 11)
Scandium-47	21	100 (3.7E 12)
Scandium-48	21	10 (3.7E 11)
Scandium-49	21	1000 (3.7E 13)
Selenium-70	34	1000 (3.7E 13)
Selenium-73m	34	100 (3.7E 12)
Selenium-73	34	10 (3.7E 11)
Selenium-75	34	10 (3.7E 11)
Selenium-79	34	10 (3.7E 11)
Selenium-81m	34	1000 (3.7E 13)



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APPENDIX B TO § 302.4—RADIONUCLIDES—  
Continued

APPENDIX B TO § 302.4—RADIONUCLIDES—  
Continued

Radionuclide	Atomic Number	Final RQ Ci (Bq)
Selenium-81	34	1000 (3.7E 13)
Selenium-83	34	1000 (3.7E 13)
Silicon-31	14	1000 (3.7E 13)
Silicon-32	14	1 (3.7E 10)
Silver-102	47	100 (3.7E 12)
Silver-103	47	1000 (3.7E 13)
Silver-104m	47	1000 (3.7E 13)
Silver-104	47	1000 (3.7E 13)
Silver-105	47	10 (3.7E 11)
Silver-106m	47	10 (3.7E 11)
Silver-106	47	1000 (3.7E 13)
Silver-108m	47	10 (3.7E 11)
Silver-110m	47	10 (3.7E 11)
Silver-111	47	10 (3.7E 11)
Silver-112	47	100 (3.7E 12)
Silver-115	47	1000 (3.7E 13)
Sodium-22	11	10 (3.7E 11)
Sodium-24	11	10 (3.7E 11)
Strontium-80	38	100 (3.7E 12)
Strontium-81	38	1000 (3.7E 13)
Strontium-83	38	100 (3.7E 12)
Strontium-85m	38	1000 (3.7E 13)
Strontium-85	38	10 (3.7E 11)
Strontium-87m	38	100 (3.7E 12)
Strontium-89	38	10 (3.7E 11)
Strontium-90	38	0.1 (3.7E 9)
Strontium-91	38	10 (3.7E 11)
Strontium-92	38	100 (3.7E 12)
Sulfur-35	16	1 (3.7E 10)
Tantalum-172	73	100 (3.7E 12)
Tantalum-173	73	100 (3.7E 12)
Tantalum-174	73	100 (3.7E 12)
Tantalum-175	73	100 (3.7E 12)
Tantalum-176	73	10 (3.7E 11)
Tantalum-177	73	1000 (3.7E 13)
Tantalum-178	73	1000 (3.7E 13)
Tantalum-179	73	1000 (3.7E 13)
Tantalum-180m	73	1000 (3.7E 13)
Tantalum-180	73	100 (3.7E 12)
Tantalum-182m	73	1000 (3.7E 13)
Tantalum-182	73	10 (3.7E 11)
Tantalum-183	73	100 (3.7E 12)
Tantalum-184	73	10 (3.7E 11)
Tantalum-185	73	1000 (3.7E 13)
Tantalum-186	73	1000 (3.7E 13)
Technetium-93m	43	1000 (3.7E 13)
Technetium-93	43	100 (3.7E 12)
Technetium-94m	43	100 (3.7E 12)
Technetium-94	43	10 (3.7E 11)
Technetium-96m	43	1000 (3.7E 13)
Technetium-96	43	10 (3.7E 11)
Technetium-97m	43	100 (3.7E 12)
Technetium-97	43	100 (3.7E 12)
Technetium-98	43	10 (3.7E 11)
Technetium-99m	43	100 (3.7E 12)
Technetium-99	43	10 (3.7E 11)
Technetium-101	43	1000 (3.7E 13)
Technetium-104	43	1000 (3.7E 13)
Tellurium-116	52	1000 (3.7E 13)
Tellurium-121m	52	10 (3.7E 11)
Tellurium-121	52	10 (3.7E 11)
Tellurium-123m	52	10 (3.7E 11)
Tellurium-123	52	10 (3.7E 11)
Tellurium-125m	52	10 (3.7E 11)
Tellurium-127m	52	10 (3.7E 11)
Tellurium-127	52	1000 (3.7E 13)
Tellurium-129m	52	10 (3.7E 11)
Tellurium-129	52	1000 (3.7E 13)
Tellurium-131m	52	10 (3.7E 11)
Tellurium-131	52	1000 (3.7E 13)

Radionuclide	Atomic Number	Final RQ Ci (Bq)
Tellurium-132	52	10 (3.7E 11)
Tellurium-133m	52	1000 (3.7E 13)
Tellurium-133	52	1000 (3.7E 13)
Tellurium-134	52	1000 (3.7E 13)
Terbium-147	65	100 (3.7E 12)
Terbium-149	65	100 (3.7E 12)
Terbium-150	65	100 (3.7E 12)
Terbium-151	65	10 (3.7E 11)
Terbium-153	65	100 (3.7E 12)
Terbium-154	65	10 (3.7E 11)
Terbium-155	65	100 (3.7E 12)
Terbium-156m (5.0 hr)	65	1000 (3.7E 13)
Terbium-156m (24.4 hr)	65	1000 (3.7E 13)
Terbium-156	65	10 (3.7E 11)
Terbium-157	65	100 (3.7E 12)
Terbium-158	65	10 (3.7E 11)
Terbium-160	65	10 (3.7E 11)
Terbium-161	65	100 (3.7E 12)
Thallium-194m	81	100 (3.7E 12)
Thallium-194	81	1000 (3.7E 13)
Thallium-195	81	100 (3.7E 12)
Thallium-197	81	100 (3.7E 12)
Thallium-198m	81	100 (3.7E 12)
Thallium-198	81	10 (3.7E 11)
Thallium-199	81	100 (3.7E 12)
Thallium-200	81	10 (3.7E 11)
Thallium-201	81	1000 (3.7E 13)
Thallium-202	81	10 (3.7E 11)
Thallium-204	81	10 (3.7E 11)
Thorium-226	90	100 (3.7E 12)
Thorium-227	90	1 (3.7E 10)
Thorium-228	90	0.01 (3.7E 8)
Thorium-229	90	0.001 (3.7E 7)
Thorium-230	90	0.01 (3.7E 8)
Thorium-231	90	100 (3.7E 12)
Thorium-232 $\phi$	90	0.001 (3.7E 7)
Thorium-234	90	100 (3.7E 12)
Thulium-162	69	1000 (3.7E 13)
Thulium-166	69	10 (3.7E 11)
Thulium-167	69	100 (3.7E 12)
Thulium-170	69	10 (3.7E 11)
Thulium-171	69	100 (3.7E 12)
Thulium-172	69	100 (3.7E 12)
Thulium-173	69	100 (3.7E 12)
Thulium-175	69	1000 (3.7E 13)
Tin-110	50	100 (3.7E 12)
Tin-111	50	1000 (3.7E 13)
Tin-113	50	10 (3.7E 11)
Tin-117m	50	100 (3.7E 12)
Tin-119m	50	10 (3.7E 11)
Tin-121m	50	10 (3.7E 11)
Tin-121	50	1000 (3.7E 13)
Tin-123m	50	1000 (3.7E 13)
Tin-123	50	10 (3.7E 11)
Tin-125	50	10 (3.7E 11)
Tin-126	50	1 (3.7E 10)
Tin-127	50	100 (3.7E 12)
Tin-128	50	1000 (3.7E 13)
Titanium-44	22	1 (3.7E 10)
Titanium-45	22	1000 (3.7E 13)
Tungsten-176	74	1000 (3.7E 13)
Tungsten-177	74	100 (3.7E 12)
Tungsten-178	74	100 (3.7E 12)
Tungsten-179	74	1000 (3.7E 13)
Tungsten-181	74	100 (3.7E 12)
Tungsten-185	74	10 (3.7E 11)
Tungsten-187	74	100 (3.7E 12)
Tungsten-188	74	10 (3.7E 11)
Uranium-230	92	1 (3.7E 10)
Uranium-231	92	1000 (3.7E 13)

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APPENDIX B TO § 302.4—RADIONUCLIDES—  
Continued

Radionuclide	Atomic Number	Final RQ Ci (Bq)
Uranium-232	92	0.01 (3.7E 8)
Uranium-233	92	0.1 (3.7E 9)
Uranium-234 $\phi$	92	0.1 (3.7E 9)
Uranium-235 $\phi$	92	0.1 (3.7E 9)
Uranium-236	92	0.1 (3.7E 9)
Uranium-237	92	100 (3.7E 12)
Uranium-238 $\phi$	92	0.1 $\bar{8}$ (3.7E 9)
Uranium-239	92	1000 (3.7E 13)
Uranium-240	92	1000 (3.7E 13)
Vanadium-47	23	1000 (3.7E 13)
Vanadium-48	23	10 (3.7E 11)
Vanadium-49	23	1000 (3.7E 13)
Xenon-120	54	100 (3.7E 12)
Xenon-121	54	10 (3.7E 11)
Xenon-122	54	100 (3.7E 12)
Xenon-123	54	10 (3.7E 11)
Xenon-125	54	100 (3.7E 12)
Xenon-127	54	100 (3.7E 12)
Xenon-129m	54	1000 (3.7E 13)
Xenon-131m	54	1000 (3.7E 13)
Xenon-133m	54	1000 (3.7E 13)
Xenon-133	54	1000 (3.7E 13)
Xenon-135m	54	10 (3.7E 11)
Xenon-135	54	100 (3.7E 12)
Xenon-138	54	10 (3.7E 11)
Ytterbium-162	70	1000 (3.7E 13)
Ytterbium-166	70	10 (3.7E 11)
Ytterbium-167	70	1000 (3.7E 13)
Ytterbium-169	70	10 (3.7E 11)
Ytterbium-175	70	100 (3.7E 12)
Ytterbium-177	70	1000 (3.7E 13)
Ytterbium-178	70	1000 (3.7E 13)
Yttrium-86m	39	1000 (3.7E 13)
Yttrium-86	39	10 (3.7E 11)
Yttrium-87	39	10 (3.7E 11)
Yttrium-88	39	10 (3.7E 11)
Yttrium-90m	39	100 (3.7E 12)
Yttrium-90	39	10 (3.7E 11)
Yttrium-91m	39	1000 (3.7E 13)
Yttrium-91	39	10 (3.7E 11)
Yttrium-92	39	100 (3.7E 12)
Yttrium-93	39	100 (3.7E 12)
Yttrium-94	39	1000 (3.7E 13)
Yttrium-95	39	1000 (3.7E 13)
Zinc-62	30	100 (3.7E 12)
Zinc-63	30	1000 (3.7E 13)
Zinc-65	30	10 (3.7E 11)
Zinc-69m	30	100 (3.7E 12)
Zinc-69	30	1000 (3.7E 13)
Zinc-71m	30	100 (3.7E 12)
Zinc-72	30	100 (3.7E 12)
Zirconium-86	40	100 (3.7E 12)
Zirconium-88	40	10 (3.7E 11)
Zirconium-89	40	100 (3.7E 12)
Zirconium-93	40	1 (3.7E 10)
Zirconium-95	40	10 (3.7E 11)
Zirconium-97	40	10 (3.7E 11)

Cl—Curie. The curie represents a rate of radioactive decay. One curie is the quantity of any radioactive nuclide which undergoes 3.7E 10 disintegrations per second.

Bq—Becquerel. The becquerel represents a rate of radioactive decay. One becquerel is the quantity of any radioactive nuclide which undergoes one disintegration per second. One curie is equal to 3.7E 10 becquerel.

@—Final RQs for all radionuclides apply to chemical compounds containing the radionuclides and elemental forms regardless of the diameter of pieces of solid material.

&—The adjusted RQ of one curie applies to all radionuclides not otherwise listed. Whenever the RQs in table 302.4 and this appendix to the table are in conflict, the lowest RQ shall apply. For example, uranyl acetate and uranyl nitrate have adjusted RQs shown in table 302.4 of 100 pounds, equivalent to about one-tenth the RQ level for uranium-238 listed in this appendix.

E—Exponent to the base 10. For example, 1.3E 2 is equal to 130 while 1.3E 3 is equal to 1300.

m—Signifies a nuclear isomer which is a radionuclide in a higher energy metastable state relative to the parent isotope.

$\phi$ —Notification requirements for releases of mixtures or solutions of radionuclides can be found in § 302.6(b) of this rule. Final RQs for the following four common radionuclide mixtures are provided: radium-226 in secular equilibrium with its daughters (0.053 curie); natural uranium (0.1 curie); natural uranium in secular equilibrium with its daughters (0.052 curie); and natural thorium in secular equilibrium with its daughters (0.011 curie).

[54 FR 33449, Aug. 14, 1989]

EDITORIAL NOTE: For FEDERAL REGISTER citations affecting § 302.4, see the List of CFR Sections Affected, which appears in the Finding Aids section of the printed volume and on GPO Access.

§ 302.5 Determination of reportable quantities.

(a) *Listed hazardous substances.* The quantity listed in the column “Final RQ” for each substance in table 302.4, or in appendix B to table 302.4, is the reportable quantity (RQ) for that substance. The RQs in table 302.4 are in units of pounds based on chemical toxicity, while the RQs in appendix B to table 302.4 are in units of curies based on radiation hazard. Whenever the RQs in table 302.4 and appendix B to the table are in conflict, the lowest RQ shall apply.

(b) *Unlisted hazardous substances.* Unlisted hazardous substances designated by 40 CFR 302.4(b) have the reportable quantity of 100 pounds, except for those unlisted hazardous wastes which exhibit toxicity identified in 40 CFR 261.24. Unlisted hazardous wastes which exhibit toxicity have the reportable quantities listed in Table 302.4 for the contaminant on which the characteristic of toxicity is based. The reportable quantity applies to the waste itself, not merely to the toxic contaminant. If an unlisted hazardous waste exhibits toxicity on the basis of more than one contaminant, the reportable quantity for that waste shall be the lowest of the reportable quantities listed in Table 302.4 for those contaminants. If an unlisted hazardous waste exhibits the characteristic of toxicity and one or more of the other characteristics referenced in 40 CFR 302.4(b), the reportable quantity for that waste

## ***Appendix C***

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### **Tank Loading and Unloading Procedure and Vehicle Refueling Procedure**

## **Tank Loading and Unloading Procedures**

1. Be sure the tank truck is accurately spotted, brakes are set, and wheels are chocked. Drivers are not allowed to remove wheel chocks until all lines are disconnected.
2. The driver must remain with the vehicle during the entire loading or unloading period.
3. No flame of any kind is permitted near the tank truck or within the vapor area around the tank truck. Smoking is strictly forbidden within this area. Only spark-proof tools are to be used.
4. Make sure the tank being loaded is vented before connecting the loading line.
5. Read the level indicator or visually inspect the receiving tank to be sure that sufficient space is available to receive material being transferred.
6. Attach ground trap to bumper of tank truck, if required. Place catch pans in position under tank truck connections as needed to catch any liquid that may leak during the transfer.
7. Place spill mats over any nearby storm drains that are within the flow path of a potential spill.
8. Remove the tank truck unloading line closure carefully. If significant leakage occurs, contact your supervisor for instructions.
9. Be sure connections between dispensing and receiving tanks are secured before opening the valves for liquid transfer.
10. Start pump and check to be sure there is no leakage at any of the connections or anywhere along the transfer lines. If a leak is present, immediately stop the pump, shut the valves, and repair the leak.
11. After liquid has been transferred, stop pump, close all valves, disconnect loading or unloading line, replace closures on valve lines, inspect the lowermost drain and all outlets of vehicle for leakage and correct as necessary, and release tank truck/tank car.
12. Prior to departure, the driver of a tank truck is required to examine the lowest drain and other outlets for leakage. Where necessary, outlets are adjusted to prevent leakage in transit.
13. In the event of a spill (Non-emergency/Incidental Spill or Emergency/Hazardous Material Spill) implement HIO Spill Response Procedures as appropriate (see Appendix B).

## Vehicle Refueling Procedures

1. Park adjacent to the pump.
  - Leave enough space to walk between the pump and the vehicle.
  - If there is any evidence that fuel has been spilled on the ground, immediately notify the office.
  
2. Check the dispenser hoses for cracks, holes, or leaks. If you notice any problems, notify the main office before refueling.
  - THE DRIVER MUST REMAIN WITH THE VEHICLE—AT THE FILL PORT —AT ALL TIMES while fuel is being dispensed.
  - If material is spilled during refueling (no matter how little):
  - Stop refueling and shut down pumps.
  - Implement PDX Spill Response Procedures as appropriate (see Appendix D).
  
3. When have you completed refueling:
  - Turn off pump.
  - Replace dispenser.

***Appendix D***

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**Tank/Area Data Sheets**

**TANK ID:** Tank 37

**Location:** Maintenance Facility - South of Maintenance Building

**Contents:** Diesel

**Capacity:** 500 gallons

**Material:** Steel

**Type:** Double-Walled AST

**Secondary Containment:** Double-Wall

**Description of Drainage from Secondary Containment:** None

**Fault Analysis:** Failure of primary containment will flow into the interstitial space of the double-walled tank system. A release outside of the secondary containment would most likely occur during fueling operations (human or mechanical failure), which would be manned. Tank is protected from vehicular damage. Any release would flow north over paved surface to nearest catch basin, located about 15 feet from the tank.

**Engineering Controls:** Inventory gauge and interstitial alarm

**Corrosion Protection:** None.

**Integrity Testing:** Not required for this tank. Follow STI SP001 Standard.

**Inspections and Records:** Monthly visual inspections, records kept minimum 3 years.

**Security:** Access to HIO is controlled by fencing and secure doors and/or gated entrances consistent with requirements for Homeland Security.

**Other Applicable Spill Prevention Measures:** Follow Tank Loading and Unloading Procedures (Appendix C). Spill kit materials available in immediate vicinity of tank.

**Spill Response/Cleanup Procedures.** Follow General Aviation Airport Spill Response Procedures (Appendix B)

**Photograph:**



**TANK ID:** Tank 41

**Location:** Maintenance Building

**Contents:** Used Oil

**Capacity:** 250 Gallons

**Material:** Steel

**Type:** Single-Walled AST

**Secondary Containment:** Building Interior

**Description of Drainage from Secondary Containment:** Tank is stored empty in the maintenance building when not in active use. There is no potential for spill while being stored. When in use (transporting used oil), spills from tanks would drain to the ground in the immediate vicinity of the transport vehicle, active secondary containment (use of spill kit) would be used to control spill.

**Fault Analysis:** Spills from transport tank most likely to occur during loading or unloading of tank, which are attended by trained Port personnel who would respond immediately to spill event with spill kit materials available on the transport vehicle or in the maintenance building.

**Engineering Controls:** No engineering controls associated with this tank. Visual observations of tank condition are made by trained Port personnel during use of tank.

**Corrosion Protection:** Tanks are not in contact with the ground.

**Integrity Testing:** Not required for these tanks. Follow STI SP001 Standard.

**Inspections and Records:** Monthly visual inspections, records kept minimum 3 years.

**Security:** Access to HIO is controlled by fencing and secure doors and/or gated entrances consistent with requirements for Homeland Security. Tank stored within Maintenance Building when not in use.

**Other Applicable Spill Prevention Measures:** Follow Tank Loading and Unloading Procedures (Appendix C). Spill kit materials available on vehicle at all times.

**Spill Response/Cleanup Procedures.** Follow General Aviation Airport Spill Response Procedures (Appendix B)

**Photograph:**





**TANK ID:** Tank 45

**Location:** Maintenance Facility - Northeast of Maintenance Building

**Contents:** Used Oil

**Capacity:** 280

**Material:** Steel

**Type:** Double-Walled AST

**Secondary Containment:** Double-Wall surrounded by Drip Pan

**Description of Drainage from Secondary Containment:** Secondary containment is intrinsic to the tank and there is no drainage. Drainage from drip pan (spill containment) is funneled through adsorbent material before draining onto adjacent ground.

**Fault Analysis:** Failure of primary containment will flow into the interstitial space of the double-walled tank system. A release outside of the secondary containment would collect in the surrounding drip pan - flow from which is filtered with oil-adsorbent material prior to drainage onto the adjacent ground. Catastrophic failure of tank would result in oil on ground in vicinity of tank - no drainage facilities nearby.

**Engineering Controls:** Visual gauge and spill containment.

**Corrosion Protection:** Tank not in contact with the ground.

**Integrity Testing:** Not required for this tank. Follow STI SP001 Standard.

**Inspections and Records:** Monthly visual inspections, records kept minimum 3 years.

**Security:** Access to HIO is controlled by fencing and secure doors and/or gated entrances consistent with requirements for Homeland Security.

**Other Applicable Spill Prevention Measures:** Follow Tank Loading and Unloading Procedures (Appendix C). Spill kit materials available in immediate vicinity of tank.

**Spill Response/Cleanup Procedures.** Follow General Aviation Airport Spill Response Procedures (Appendix B)

**Photograph:**



**TANK ID:** Tank 46

**Location:** Maintenance Facility - Northeast of Maintenance Building

**Contents:** Used Oil

**Capacity:** 280 gallons

**Material:** Steel

**Type:** Double-Walled AST

**Secondary Containment:** Double-Wall surrounded by Drip Pan

**Description of Drainage from Secondary Containment:** Secondary containment is intrinsic to the tank and there is no drainage. Drainage from drip pan (spill containment) is funneled through adsorbent material before draining onto adjacent ground.

**Fault Analysis:** Failure of primary containment will flow into the interstitial space of the double-walled tank system. A release outside of the secondary containment would collect in the surrounding drip pan - flow from which is filtered with oil-adsorbent material prior to drainage onto the adjacent ground. Catastrophic failure of tank would result in oil on ground in vicinity of tank - no drainage facilities nearby.

**Engineering Controls:** Visual gauge and spill containment.

**Corrosion Protection:** Tank not in contact with the ground.

**Integrity Testing:** Not required for this tank. Follow STI SP001 Standard.

**Inspections and Records:** Monthly visual inspections, records kept minimum 3 years.

**Security:** Access to HIO is controlled by fencing and secure doors and/or gated entrances consistent with requirements for Homeland Security.

**Other Applicable Spill Prevention Measures:** Follow Tank Loading and Unloading Procedures (Appendix C). Spill kit materials available in immediate vicinity of tank.

**Spill Response/Cleanup Procedures.** Follow General Aviation Airport Spill Response Procedures (Appendix B)

**Photograph:**



**TANK ID:** Tank 47

**Location:** Maintenance Building

**Contents:** Used Oil

**Capacity:** 1,500 gallons

**Material:** Steel

**Type:** Double-Walled AST

**Secondary Containment:** Double-Wall; Building Interior

**Description of Drainage from Secondary Containment:** None

**Fault Analysis:** Failure of primary containment will flow into the interstitial space of the double-walled tank system. A release from the secondary containment would collect on the Maintenance Building floor. If the building is unoccupied, closed shop doors will prevent flow from leaving building. If shop doors are open, facility staff would have adequate time to stop overland flow using available spill kit. Nearest catch basin located west of the building, approximately 70 feet from tank.

**Engineering Controls:** Visual fill gauge, tank sited indoors.

**Corrosion Protection:** None - AST indoors.

**Integrity Testing:** Not required for this tank. Follow STI SP001 Standard.

**Inspections and Records:** Monthly visual inspections, records kept minimum 3 years.

**Security:** AST is located inside the Maintenance Building (kept closed when site not attended). Access to HIO is controlled by fencing and secure doors and/or gated entrances consistent with requirements for Homeland Security.

**Other Applicable Spill Prevention Measures:** Follow Tank Loading and Unloading Procedures (Appendix C). Spill kit materials available in immediate vicinity of tank.

**Spill Response/Cleanup Procedures.** Follow General Aviation Airport Spill Response Procedures (Appendix B)

**Photograph:**



**TANK ID:** Tank 48

**Location:** Service vehicle 17026, parked in Maintenance Building

**Contents:** Gasoline, Diesel

**Capacity:** 2 Tanks - 52 gallons each

**Material:** Steel

**Type:** Single-Walled vehicle-mounted service tanks

**Secondary Containment:** Active containment (spill kit available on vehicle)

**Description of Drainage from Secondary Containment:** Spills from service tanks would drain to the ground in the immediate vicinity of the vehicle, active secondary containment (use of spill kit) would be used to control spill.

**Fault Analysis:** Spills from service tanks most likely to occur during loading of tanks or dispensing fuel. Both activities are attended by trained Port personnel who would respond immediately to spill event with spill kit materials available on the vehicle.

**Engineering Controls:** Tanks mounted to allow easy visual inspection

**Corrosion Protection:** Tanks are not in contact with the ground.

**Integrity Testing:** Not required for these tanks. Follow STI SP001 Standard.

**Inspections and Records:** Monthly visual inspections, records kept minimum 3 years.

**Security:** Access to HIO is controlled by fencing and secure doors and/or gated entrances consistent with requirements for Homeland Security. Vehicle stored within Maintenance Building when not in use.

**Other Applicable Spill Prevention Measures:** Follow Tank Loading and Unloading Procedures (Appendix C). Spill kit materials available on vehicle at all times.

**Spill Response/Cleanup Procedures.** Follow General Aviation Airport Spill Response Procedures (Appendix B)

**Photograph:**



**TANK ID:** Tank 50 (HIO-0050)

**Location:** Terminal Building

**Contents:** Hydraulic Oil

**Capacity:** 65 Gallons

**Material:** Steel

**Type:** Elevator Hydraulic Reservoir

**Secondary Containment:** Operating equipment (hydraulic reservoirs) are exempt from sized secondary containment requirements. The elevator reservoir, however, is located entirely within the building and a release would be contained on the building floor before oil could exit from the building. The elevator jack is contained within a below-ground concrete vault (pit) that is equipped with a sump that is designed to be pumped to the sanitary sewer.

**Description of Drainage from Secondary Containment:** N/A

**Fault Analysis:** Failure of the reservoir tank is unlikely, but in that event it would result in spillage of hydraulic oil onto the floor of the associated mechanical room. The mechanical room is significantly removed from exterior doors or other exits and so the spill would be entirely contained within the building. Release from the elevator jack would be entirely contained within the elevator shaft sump which is drained by a sump pump connected to the sanitary sewer.

**Engineering Controls:** N/A (Oil-Filled Equipment, not oil storage).

**Corrosion Protection:** N/A (Oil-Filled Equipment, not oil storage). Tank is not in contact with the ground.

**Integrity Testing:** N/A (Oil-Filled Equipment, not oil storage).

**Inspections and Records:** Monthly visual inspections, records kept minimum 3 years.

**Security:** Access to the maintenance room is controlled by secure doors and/or gated entrances consistent with requirements for Homeland Security. Port provides 24-hour security monitoring of HIO. Operating equipment is not accessible by the public.

**Other Applicable Spill Prevention Measures:** Spill kit materials available in the mechanical room (adsorbent pads).

**Spill Response/Cleanup Procedures.** Follow General Aviation Airport Spill Response Procedures (Appendix B)

**Photograph:**



**TANK ID:** Tank 52 (HIO-0052)

**Location:** North of Control Tower

**Contents:** Diesel

**Capacity:** 194 Gallons

**Material:** Steel

**Type:** Double-walled steel emergency generator fuel tank

**Secondary Containment:** Intrinsic secondary containment (110 percent of primary tank)

**Description of Drainage from Secondary Containment:** Secondary containment shell does not drain

**Fault Analysis:** Failure of primary containment will flow to the monitored interstitial space of the double-walled containment system

**Engineering Controls:** Interstitial leak detection

**Corrosion Protection:** Tank not exposed to atmospheric conditions (in weather-rated enclosure) and not in direct contact with the ground.

**Integrity Testing:** Not required for this tank. Follow STI SP001 Standard.

**Inspections and Records:** Monthly visual inspections, records kept minimum 3 years.

**Security:** Access to HIO is controlled by fencing and secure doors and/or gated entrances consistent with requirements for Homeland Security. Port provides 24-hour security monitoring of HIO.

**Other Applicable Spill Prevention Measures:** Follow Tank Loading and Unloading Procedures (Appendix C). Spill kit materials available in vicinity of tank (adsorbent pads).

**Spill Response/Cleanup Procedures.** Follow General Aviation Airport Spill Response Procedures (Appendix B)

**Photograph:**





**TANK ID:** 55-Gallon Drum Storage

**Location:** Maintenance Building

**Contents:** Various Petroleum Products (Greases, Oils)

**Capacity:** Up to 8 55-gallon drums (limited to four in service)

**Material:** Steel

**Type:** 55-gallon drums

**Secondary Containment:** Drums in service housed in purpose-built secondary containment unit. Additional containment provided by Maintenance Building.

**Description of Drainage from Secondary Containment:** Drum containment unit does not drain. Spills outside of containment unit would flow onto concrete floor and would be contained by the Maintenance Building.

**Fault Analysis:** Spills from drums most likely to occur during dispensing from in-service drums or during moving drums/loading into containment. Such activities are attended by trained Port personnel who would respond immediately to spill event with available spill kit materials.

**Engineering Controls:** Purpose-built drum storage/containment unit

**Corrosion Protection:** None - drums stored indoors.

**Integrity Testing:** Not applicable to drums

**Inspections and Records:** Monthly visual inspections, records kept minimum 3 years.

**Security:** Drums are located inside the Maintenance Building (kept closed when site not attended). Access to HIO is controlled by fencing and secure doors and/or gated entrances consistent with requirements for Homeland Security.

**Other Applicable Spill Prevention Measures:** None. Spill kit materials available in vicinity of drum storage area.

**Spill Response/Cleanup Procedures.** Follow General Aviation Airport Spill Response Procedures (Appendix B)

**Photograph:**



**OIL-FILLED EQUIPMENT** HIO Oil Filled Regulators (1)

**Location:** HIO Regulator Vault  
**Contents:** Transformer Fluid  
**Capacity:** 85 gallons  
**Material:** Steel  
**Type:** Regulator  
**Secondary Containment:** Transformer room  
**Description of Drainage from Secondary Containment:** N/A  
**Fault Analysis:** Failure of primary regulator containment would flow to the floor of the transformer room and would likely be contained fully within the building.  
**Engineering Controls:** N/A (oil-filled equipment; not oil storage)  
**Corrosion Protection:** N/A (oil-filled equipment; not oil storage)  
**Integrity Testing:** N/A (oil-filled equipment; not oil storage)  
**Inspections and Records:** Monthly visual inspections, records kept minimum 3 years.  
**Security:** The regulator is located within secured building at HIO. Access to HIO is controlled by fencing and secure doors and/or gated entrances consistent with requirements for Homeland Security.  
**Other Applicable Spill Prevention Measures:** None  
**Spill Response/Cleanup Procedures.** Follow General Aviation Airport Spill Response Procedures (Appendix B)  
**Photograph:**

