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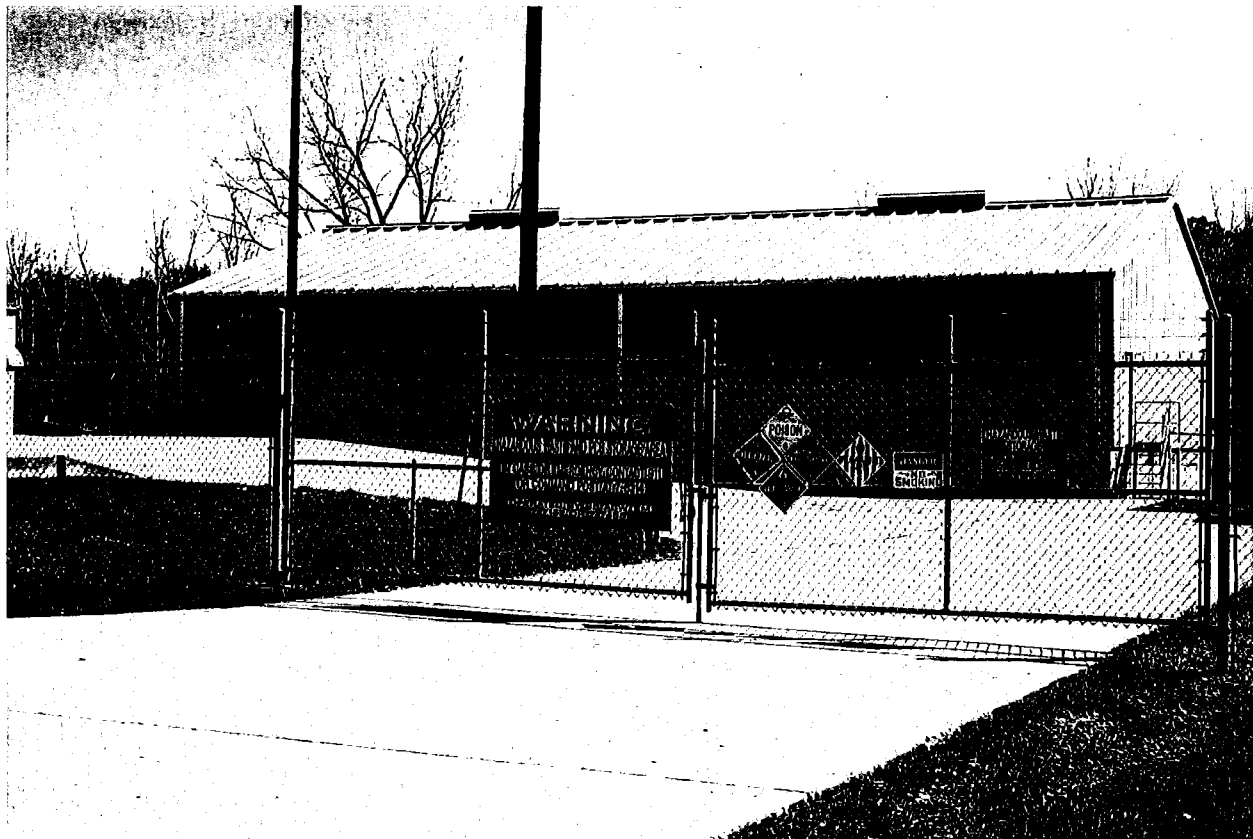
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RCRA PART B PERMIT APPLICATION
WRIGHT-PATTERSON AIR FORCE BASE Southwest District
TREATMENT STORAGE AND DISPOSAL FACILITY
BUILDING 479, AREA B
EPA ID NUMBER OH7571724312



PREPARED BY
ASSET INSTALLATION MANAGEMENT DIVISION
88 ABW/CEA CEG/CEI
1450 LITRELL ROAD
WRIGHT-PATTERSON AIR FORCE BASE
SEPTEMBER 2010

OHIO EPA
SWDO

FEB 26 2015

RCRA PART B PERMIT APPLICATION WRIGHT-PATTERSON AIR FORCE BASE AREA B HAZARDOUS WASTE STORAGE FACILITIES

Submitted to:



Office of Environmental Management
88 ABW/EM
Wright-Patterson AFB, Ohio 45433

Prepared by:



Environmental Quality Management, Inc.
1310 Kemper Meadow Drive
Cincinnati, Ohio 45240

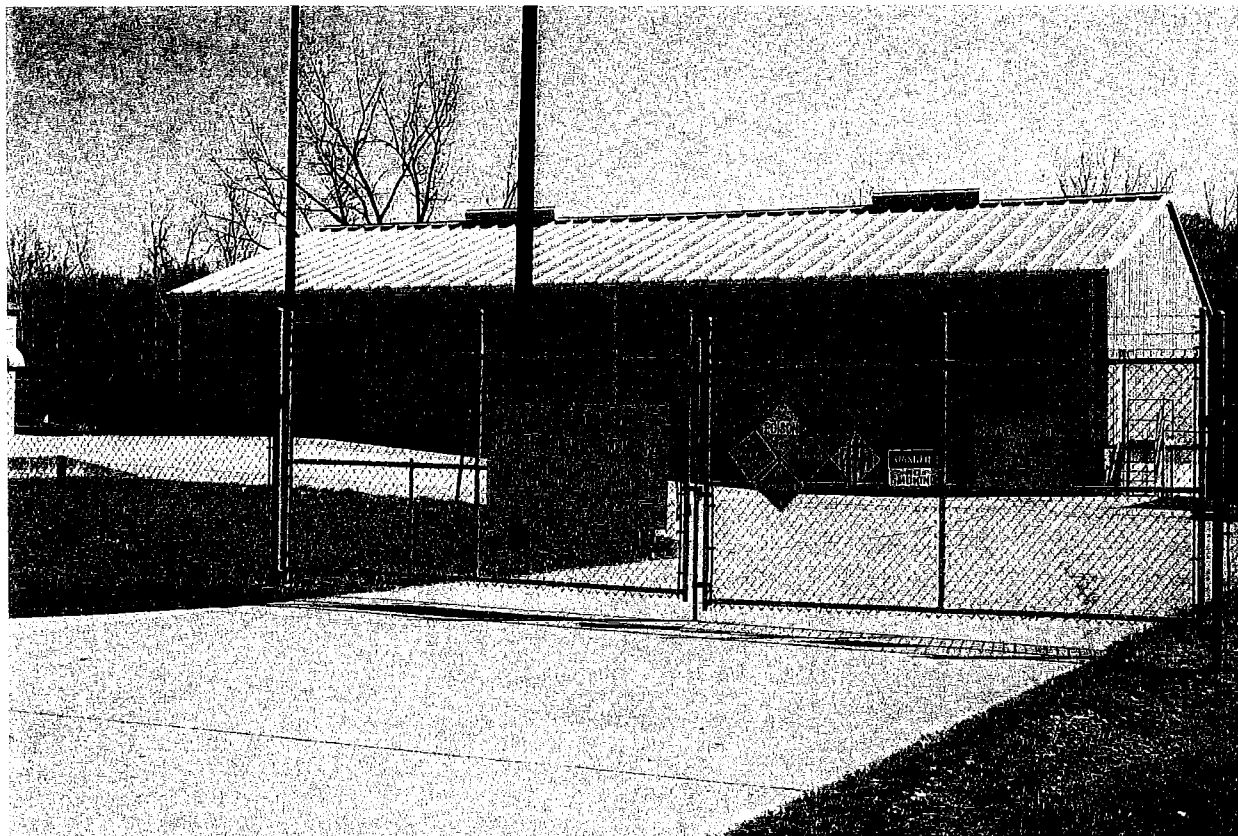
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Southwest District

**RCRA PART B PERMIT APPLICATION
WRIGHT-PATTERSON AIR FORCE BASE
TREATMENT STORAGE AND DISPOSAL FACILITY
BUILDING 479, AREA B
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**PREPARED BY
ASSET MANAGEMENT DIVISION
88 ABW/CEA
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WRIGHT-PATTERSON AIR FORCE BASE
SEPTEMBER 2010**

JUN 27 2011

DIV. OF HAZARDOUS
WASTE MGT.

C0001

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C0010

MAP LIST

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JUN 27 2011

DIV. OF HAZARDOUS
WASTE MGT.

00011

United States Environmental Protection Agency
HAZARDOUS WASTE PERMIT PART A FORM



1. Facility Permit Contact

First Name	EMILY	MI	A	Last Name	ERDEI
Title	HAZARDOUS WASTE PROGRAM MANAGER				
Email	EMILY.ERDEI@US.AF.MIL				
Phone	(937) 257-0023	Ext	N/A	Fax	N/A

2. Facility Permit Contact Mailing Address

Street Address	1450 LITTRELL ROAD		
City, Town, or Village	WPAFB		
State	OH	Country	USA
Zip Code	45433-5209		

3. Facility Existence Date (mm/dd/yyyy)

1/13/1948

4. Other Environmental Permits

A. Permit Type	B. Permit Number	C. Description
		SEE ATTACHED

5. Nature of Business

<p>This facility provides storage (not to exceed one year) for industrial wastes, solvents and chemical wastes generated by aircraft maintenance and research & development laboratories on WPAFB. This facility accepts mixed waste from off-site facilities. The 88 ABW is the host organization at this AFMC installation whose primary function is national defense. No disposal operations function on base.</p>
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OMB #: 2050-0034 Expires 11/30/2005

United States Environmental Protection Agency

HAZARDOUS WASTE PERMIT INFORMATION FORM

1. Facility Permit Contact (See instructions on page 23)	First Name: GARY	MI: W	Last Name: SELBY
	Phone Number: (937) 257-3349		Phone Number Extension:
2. Facility Permit Contact Mailing Address (See instructions on page 23)	Street or P.O. Box: 1450 LITRELL ROAD		
	City, Town, or Village: WRIGHT-PATTERSON AIR FORCE BASE		
	State: OH		
	Country: USA	Zip Code: 45433	
3. Operator Mailing Address and Telephone Number (See instructions on page 23)	Street or P.O. Box: SAME AS ABOVE		
	City, Town, or Village:		
	State:		
	Country:	Zip Code:	Phone Number
4. Legal Owner Mailing Address and Telephone Number (See instructions on page 23)	Street or P.O. Box: SAME AS ABOVE		
	City, Town, or Village:		
	State:		
	Country:	Zip Code:	Phone Number
5. Facility Existence Date (See instructions on page 24)	Facility Existence Date (mm/dd/yyyy): 01/13/1948		
6. Other Environmental Permits (See instructions on page 24)			
A. Permit Type (Enter code)	B. Permit Number		C. Description
			SEE ATTACHED
7. Nature of Business (Provide a brief description; see instructions on page 24)			
This facility provides storage (not to exceed one year) for industrial wastes, solvents and chemical wastes generated by aircraft maintenance and research & development laboratories on WPAFB. THIS FACILITY ACCEPTS MIXED WASTE FROM OFF-SITE FACILITIES. The 88 ABW is the host organization at this AFMC installation whose primary function is national defense. No disposal operations function on base.			

Process Codes and Design Capacities (See instructions on page 24) - Enter information in the Sections on Form Page 3.

A. PROCESS CODE - Enter the code from the list of process codes in the table below that best describes each process to be used at the facility. Fifteen lines are provided for entering codes. If more lines are needed, attach a separate sheet of paper with the additional information. For "other" processes (i.e., D99, S99, T04 and X99), enter the process information in Item 9 (including a description).

B. PROCESS DESIGN CAPACITY- For each code entered in Section A, enter the capacity of the process.

1. AMOUNT - Enter the amount. In a case where design capacity is not applicable (such as in a closure/post-closure or enforcement action) enter the total amount of waste for that process.

2. UNIT OF MEASURE - For each amount entered in Section B(1), enter the code in Section B(2) from the list of unit of measure codes below that describes the unit of measure used. Select only from the units of measure in this list.

C. PROCESS TOTAL NUMBER OF UNITS - Enter the total number of units for each corresponding process code.

PROCESS CODE	PROCESS	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY	PROCESS CODE	PROCESS	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY
D79	<u>Disposal:</u> Underground Injection Well Disposal	Gallons; Liters; Gallons Per Day; or Liters Per Day	T81	<u>Treatment (continued):</u> Cement Kiln	For T81-T93:
D80	Landfill	Acre-feet; Hectare-meter; Acres; Cubic Meters; Hectares; Cubic Yards	T82	Lime Kiln	
D81	Land Treatment	Acres or Hectares	T83	Aggregate Kiln	Gallons Per Day; Liters Per Day; Pounds Per Hour; Short Tons Per Hour; Kilograms Per Hour; Metric Tons Per Day; Metric Tons Per Hour; Short Tons Per Day; Btu Per Hour
D82	Ocean Disposal	Gallons Per Day or Liters Per Day	T84	Phosphate Kiln	
D83	Surface Impoundment Disposal	Gallons; Liters; Cubic Meters; or Cubic Yards	T85	Coke Oven	
D99	Other Disposal	Any Unit of Measure in Code Table Below	T86	Blast Furnace	
S01	<u>Storage:</u> Container	Gallons; Liters; Cubic Meters; or Cubic Yards	T87	Smelting, Melting, or Refining Furnace	Hour; Liters Per Hour; Kilograms Per Hour; or Million Btu Per Hour
S02	Tank Storage	Gallons; Liters; Cubic Meters; or Cubic Yards	T88	Titanium Dioxide Chloride Oxidation Reactor	
S03	Waste Pile	Cubic Yards or Cubic Meters	T89	Methane Reforming Furnace	
	Surface Impoundment Storage	Gallons; Liters; Cubic Meters; or Cubic Yards	T90	Pulping Liquor Recovery Furnace	
S05	Drip Pad	Gallons; Liters; Acres; Cubic Meters; Hectares; or Cubic Yards	T91	Combustion Device Used In The Recovery Of Sulfur Values From Spent Sulfuric Acid	
S06	Containment Building Storage	Cubic Yards or Cubic Meters	T92	Halogen Acid Furnaces	
S99	Other Storage	Any Unit of Measure in Code Table Below	T93	Other Industrial Furnaces Listed In 40 CFR §260.10	
T01	<u>Treatment:</u> Tank Treatment	Gallons Per Day; Liters Per Day	T94	Containment Building - Treatment	Cubic Yards; Cubic Meters; Short Tons Per Hour; Gallons Per Hour; Liters Per Hour; Btu Per Hour; Pounds Per Hour; Short Tons Per Day; Kilograms Per Hour; Metric Tons Per Day; Gallons Per Day; Liters Per Day; Metric Tons Per Hour; or Million Btu Per Hour
T02	Surface Impoundment Treatment	Gallons Per Day; Liters Per Day	X01	<u>Miscellaneous (Subpart X):</u> Open Burning/Open Detonation	Any Unit of Measure in Code Table Below
T03	Incinerator	Short Tons Per Hour; Metric Tons Per Hour; Gallons Per Hour; Liters Per Hour; Btu Per Hour; Pounds Per Hour; Short Tons Per Day; Kilograms Per Hour; Gallons Per Day; Liters Per Day; Metric Tons Per Hour; or Million Btu Per Hour	X02	Mechanical Processing	Short Tons Per Hour; Metric Tons Per Hour; Short Tons Per Day; Metric Tons Per Day; Pounds Per Hour; Kilograms Per Hour; Gallons Per Hour; Liters Per Hour; or Gallons Per Day
T04	Other Treatment	Gallons Per Day; Liters Per Day; Pounds Per Hour; Short Tons Per Hour; Kilograms Per Hour; Metric Tons Per Day; Metric Tons Per Hour; Short Tons Per Day; Btu Per Hour; Gallons Per Day; Liters Per Hour; or Million Btu Per Hour	X03	Thermal Unit	Gallons Per Day; Liters Per Day; Pounds Per Hour; Short Tons Per Hour; Kilograms Per Hour; Metric Tons Per Day; Metric Tons Per Hour; Short Tons Per Day; Btu Per Hour; or Million Btu Per Hour
T80	Boiler	Gallons; Liters; Gallons Per Hour; Liters Per Hour; Btu Per Hour; or Million Btu Per Hour	X04	Geologic Repository	Cubic Yards; Cubic Meters; Acre-feet; Hectare-meter; Gallons; or Liters
			X99	Other Subpart X	Any Unit of Measure Listed Below

UNIT OF MEASURE	UNIT OF MEASURE CODE	UNIT OF MEASURE	UNIT OF MEASURE CODE	UNIT OF MEASURE	UNIT OF MEASURE CODE
Gallons.....	G	Short Tons Per Hour.....	D	Cubic Yards.....	Y
Gallons Per Hour.....	E	Metric Tons Per Hour.....	W	Cubic Meters.....	C
Gallons Per Day.....	U	Short Tons Per Day.....	N	Acres.....	B
Liters.....	L	Metric Tons Per Day.....	S	Acre-feet.....	A
Liters Per Hour.....	H	Pounds Per Hour.....	J	Hectares.....	Q
Liters Per Day.....	V	Kilograms Per Hour.....	R	Hectare-meter.....	F
		Million Btu Per Hour.....	X	Btu Per Hour.....	I

Process Codes and Design Capacities (Continued)

EXAMPLE FOR COMPLETING Item 8 (shown in line number X-1 below): A facility has a storage tank, which can hold 533.788 gallons.

[illegible]

NOTE: If you need to list more than 15 process codes, attach an additional sheet(s) with the information in the same format as above. Number the lines sequentially, taking into account any lines that will be used for "other" processes (i.e., D99, S99, T04 and X99) in Item 9.

9. Other Processes (See instructions on page 25 and follow instructions from Item 8 for D99, S99, T04 and X99 process codes)

[illegible]

JUN 27 2011

10. Description of Hazardous Wastes (See instructions on page 25) - Enter information in the Sections on Form Page 5.

EPA HAZARDOUS WASTE NUMBER - Enter the four-digit number from 40 CFR, Part 261 Subpart D of each listed hazardous waste you will handle. For hazardous wastes which are not listed in 40 CFR, Part 261 Subpart D, enter the four-digit number(s) from 40 CFR Part 261, Subpart C that describes the characteristics and/or the toxic contaminants of those hazardous wastes.

B. ESTIMATED ANNUAL QUANTITY - For each listed waste entered in Section A, estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in Section A, estimate the total annual quantity of all the non-listed waste(s) that will be handled which possess that characteristic or contaminant.

C. UNIT OF MEASURE - For each quantity entered in Section B, enter the unit of measure code. Units of measure which must be used and the appropriate codes are:

ENGLISH UNIT OF MEASURE	CODE	METRIC UNIT OF MEASURE	CODE
POUNDS	P	KILOGRAMS	K
TONS	T	METRIC TONS	M

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure, taking into account the appropriate density or specific gravity of the waste.

D. PROCESSES**1. PROCESS CODES:**

For listed hazardous waste: For each listed hazardous waste entered in Section A, select the code(s) from the list of process codes contained in Items 8A and 9A on page 3 to indicate all the processes that will be used to store, treat, and/or dispose of all the listed hazardous wastes.

For non-listed hazardous waste: For each characteristic or toxic contaminant entered in Section A, select the code(s) from the list of process codes contained in Items 8A and 9A on page 3 to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed hazardous wastes that possess that characteristic or toxic contaminant.

NOTE: THREE SPACES ARE PROVIDED FOR ENTERING PROCESS CODES. IF MORE ARE NEEDED:

- Enter the first two as described above.
- Enter "000" in the extreme right box of Item 10.D(1).
- Use additional sheet, enter line number from previous sheet, and enter additional code(s) in Item 10.E.

2. PROCESS DESCRIPTION: If a code is not listed for a process that will be used, describe the process in Item 10.D(2) or in Item 10.E(2).

NOTE: HAZARDOUS WASTES DESCRIBED BY MORE THAN ONE EPA HAZARDOUS WASTE NUMBER - Hazardous wastes that can be described by more than one EPA Hazardous Waste Number shall be described on the form as follows:

- Select one of the EPA Hazardous Waste Numbers and enter it in Section A. On the same line complete Sections B, C and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.
- In Section A of the next line enter the other EPA Hazardous Waste Number that can be used to describe the waste. In Section D(2) on that line enter "included with above" and make no other entries on that line.
- Repeat step 2 for each EPA Hazardous Waste Number that can be used to describe the hazardous waste.

EXAMPLE FOR COMPLETING Item 10 (shown in line numbers X-1, X-2, X-3, and X-4 below) - A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operations. In addition, the facility will treat and dispose of three non-listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

Line Number	A. EPA Hazardous Waste No. (Enter code)				B. Estimated Annual Quantity of Waste	C. Unit of Measure (Enter code)	D. PROCESSES									
							(1) PROCESS CODES (Enter code)								(2) PROCESS DESCRIPTION- (If a code is not entered in D(1))	
X 1	K	0	5	4	900	P	T	0	3	D	8	0				
X 2	D	0	0	2	400	P	T	0	3	D	8	0				
X 3	D	0	0	1	100	P	T	0	3	D	8	0				
X 4	D	0	0	2												Included With Above

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Description of Hazardous Wastes (Continued. Use this Additional Sheet(s) as necessary; number as 5 a, etc.)

Line Number	A. EPA Hazardous Waste No. (Enter code)					B. Estimated Annual Quantity of Waste	C. Unit of Measure (Enter code)	E. PROCESSES									
	(1) PROCESS CODES (Enter code)										(2) PROCESS DESCRIPTION (If a code is not entered in E(1))						
4 0								S	0	1							
0 1	D	0	0	1		30,000	P	S	0	1							Ignitable
0 2	D	0	0	2		22,000	P	S	0	1							Corrosive
0 3	D	0	0	3		10,000	P	S	0	1							Reactive
0 4	D	0	0	4		1	P	S	0	1							Arsenic (TCLP)
0 5	D	0	0	5		1	P	S	0	1							Barium (TCLP)
0 6	D	0	0	6		1	P	S	0	1							Cadmium (TCLP)
0 7	D	0	0	7		1	P	S	0	1							Chromium (TCLP)
0 8	D	0	0	8		25,000	P	S	0	1							Lead (TCLP)
0 9	D	0	0	9		1	P	S	0	1							Mercury (TCLP)
1 0	D	0	1	0		1	P	S	0	1							Selenium (TCLP)
1 1	D	0	1	1		1	P	S	0	1							Silver (TCLP)
1 2	D	0	1	2		1	P	S	0	1							Endrin (TCLP)
1 3	D	0	1	3		1	P	S	0	1							Lindane (TCLP)
1 4	D	0	1	4		1	P	S	0	1							Methoxychlor (TCLP)
1 5	D	0	1	5		1	P	S	0	1							Toxaphene (TCLP)
1 6	D	0	1	6		1	P	S	0	1							2, 4-D (TCLP)
1 7	D	0	1	7		1	P	S	0	1							2, 4, 5-TP Silvex (TCLP)
1 8	D	0	1	8		1	P	S	0	1							Benzene (TCLP)
1 9	D	0	1	9		1	P	S	0	1							Carbon tetrachloride (TCLP)
2 0	D	0	2	0		1	P	S	0	1							Chlordane (TCLP)
2 1	D	0	2	1		1	P	S	0	1							Chlorobenzene (TCLP)
2 2	D	0	2	2		1	P	S	0	1							Chloroform (TCLP)
2 3	D	0	2	3		1	P	S	0	1							O-Cresol (TCLP)
2 4	D	0	2	4		1	P	S	0	1							M-Cresol (TCLP)
2 5	D	0	2	5		1	P	S	0	1							P-Cresol (TCLP)
2 6	D	0	2	6		1	P	S	0	1							Cresol (TCLP)
2 7	D	0	2	7		1	P	S	0	1							1, 4-Dichlorobenzene (TCLP)
2 8	D	0	2	8		1	P	S	0	1							1, 2-Dichloroethane (TCLP)
2 9	D	0	2	9		1	P	S	0	1							1, 1-Dichloroethylene (TCLP)
3 0	D	0	3	0		1	P	S	0	1							2, 4-Dinitrotoluene (TCLP)
3 1	D	0	3	1		1	P	S	0	1							Heptachlor (TCLP)
3 2	D	0	3	2		1	P	S	0	1							Hexachlorobenzene (TCLP)
3 3	D	0	3	3		1	P	S	0	1							Hexachlor-1, 3-Butadiene (TCLP)
3 4	D	0	3	4		1	P	S	0	1							Hexachloroethane (TCLP)
3 5	D	0	3	5		1	P	S	0	1							Methyl Ethyl Ketone (TCLP)
3 6	D	0	3	6		1	P	S	0	1							Nitrobenzene (TCLP)
3 7	D	0	3	7		1	P	S	0	1							Pentachlorophenol (TCLP)

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Description of Hazardous Wastes (Continued. Use this Additional Sheet(s) as necessary; number as 5 a, etc.)

Line Number		A. EPA Hazardous Waste No. (Enter code)				B. Estimated Annual Quantity of Waste	C. Unit of Measure (Enter code)	E. PROCESSES										(2) PROCESS DESCRIPTION (If a code is not entered in E(1))
								(1) PROCESS CODES (Enter code)										
4	0																	
0	1	D	0	3	8	1	P	S	0	1							Pyridine (TCLP)	
0	2	D	0	3	9	1	P	S	0	1							Tetrachloroethylene (TCLP)	
0	3	D	0	4	0	1	P	S	0	1							Trichloroethylene (TCLP)	
0	4	D	0	4	1	1	P	S	0	1							2, 4, 5-Trichlorophenol (TCLP)	
0	5	D	0	4	2	1	P	S	0	1							2, 4, 6-Trichlorophenol (TCLP)	
0	6	D	0	4	3	1	P	S	0	1							Vinyl Chloride (TCLP)	
0	7						P	S	0	1								
0	8	F	0	0	1	1,600	P	S	0	1							Spent Halogenated Solvents (T)	
0	9	F	0	0	2	9,000	P	S	0	1							Spent Halogenated Solvents (T)	
1	0	F	0	0	3	16,000	P	S	0	1							Spent Non-Halogenated Solvents (T)	
1	1	F	0	0	4	90	P	S	0	1							Spent Non-Halogenated Solvents (T)	
1	2	F	0	0	5	16,000	P	S	0	1							Spent Non-Halogenated Solvents (T)	
1	3	F	0	0	6	1	P	S	0	1							Electroplating Wastewater Sludge (T)	
1	4	F	0	0	7	1,520	P	S	0	1							Spent Cyanides (R, T)	
1	5	F	0	0	8	1,000	P	S	0	1							Spent Plating Bath Residues (T)	
1	6	F	0	0	9	4,000	P	S	0	1							Spent Stripping and Bath Solutions (R, T)	
	7	F	0	1	0	1	P	S	0	1							Quenching Bath Sludge (R, T)	
1	8	F	0	1	1	1	P	S	0	1							Spent Cyanide Solutions (R, T)	
1	9	F	0	1	2	1	P	S	0	1							Wastewater Sludges (T)	
2	0	F	0	1	9	1	P	S	0	1							Wastewater Sludges (T)	
2	1	F	0	2	0	1	P	S	0	1							Production Wastes (T)	
2	2	F	0	2	1	1	P	S	0	1							Production Wastes (T)	
2	3	F	0	2	2	1	P	S	0	1							Manufacturing Wastes (T)	
2	4	F	0	2	3	1	P	S	0	1							Production Wastes (T)	
2	5	F	0	2	4	1	P	S	0	1							Production Wastes (T)	
2	6	F	0	2	5	1	P	S	0	1							Chlorinated Aliphatic Hydrocarbons (T)	
2	7	F	0	2	6	1	P	S	0	1							Production Wastes (T)	
2	8	F	0	2	7	1	P	S	0	1							Unused Formulations (T)	
2	9	F	0	2	8	1	P	S	0	1							Incineration Residues (T)	
3	0	F	0	3	9	1	P	S	0	1							Multi-Source Leachate (T)	
3	1						P	S	0	1								
3	2	P	0	0	1	25	P	S	0	1							3-(alpha-acetonyl benzene) 4 hydroxycoumaryl (C, T)	
3	3	P	0	0	1	1	P	S	0	1							Warfarin (T)	
3	4	P	0	0	2	1	P	S	0	1							Acetamide, N-(aminothioxomethyl) (T)	
3	5	P	0	0	2	1	P	S	0	1							1-Acetyl-2-thiourea (T)	
3	6	P	0	0	3	1	P	S	0	1							Acrolein (T)	
3	7	P	0	0	3	1	P	S	0	1							2-Propenal (T)	

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Description of Hazardous Wastes (Continued. Use this Additional Sheet(s) as necessary; number as 5 a, etc.)

Line Number	A. EPA Hazardous Waste No. (Enter code)				B. Estimated Annual Quantity of Waste	C. Unit of Measure (Enter code)	E. PROCESSES										
	(1) PROCESS CODES (Enter code)						(2) PROCESS DESCRIPTION (If a code is not entered in E(1))										
4	0																
0	1	P	0	0	4	1	P	S	0	1							Aldrin (T)
0	2	P	0	0	4	1	P	S	0	1							1, 2, 3, 4, 10, 10-Hexachloro-1, 4, 4a, 5, 8, 8a-hexa
0	3						P	S	0	1							hydro-1, 4, 5, 8-endo, exo-dimethanonaphthalene (T)
0	4	P	0	0	5	1	P	S	0	1							Allyl Alcohol (T)
0	5	P	0	0	5	1	P	S	0	1							2-Propen-1-ol
0	6	P	0	0	6	1	P	S	0	1							Aluminum Phosphide (T)
0	7	P	0	0	7	1	P	S	0	1							5-(aminomethyl)-3-isoxazoleol (T)
0	8	P	0	0	7	1	P	S	0	1							3(2H)-Isioxazolone, 5-(aminomethyl) (T)
0	9	P	0	0	8	1	P	S	0	1							4-a Aminopyridine (T)
1	0	P	0	0	8	1	P	S	0	1							4-Pyridinamine (T)
1	1	P	0	0	9	1	P	S	0	1							Ammonium Picrate (R)
1	2	P	0	0	9	1	P	S	0	1							Phenol 2, 4, 6-trinitro-, ammonium salt (R)
1	3	P	0	1	0	1	P	S	0	1							Arsenic Acid (T)
1	4	P	0	1	1	1	P	S	0	1							Arsenic (V) Oxide (T)
1	5	P	0	1	1	1	P	S	0	1							Arsenic Pentoxide (T)
1	6	P	0	1	2	1	P	S	0	1							Arsenic (III) Oxide (T)
1	7	P	0	1	2	1	P	S	0	1							Arsenic Trioxide (T)
1	8	P	0	1	3	1	P	S	0	1							Barium Cyanide (T)
1	9	P	0	1	4	1	P	S	0	1							Benzenethiol (T)
2	0	P	0	1	4	1	P	S	0	1							Thiophenol (T)
2	1	P	0	1	5	1	P	S	0	1							Beryllium Dust (T)
2	2	P	0	1	6	1	P	S	0	1							Bis (chloromethyl) ether (T)
2	3	P	0	1	6	1	P	S	0	1							Methane, oxybis (chloro) (T)
2	4	P	0	1	7	1	P	S	0	1							Bromoacelone (T)
2	5	P	0	1	7	1	P	S	0	1							2-Pronanone, 1-bromo- (T)
2	6	P	0	1	8	1	P	S	0	1							Brucine (T)
2	7	P	0	1	8	1	P	S	0	1							Strychnidin-10-one, 2, 3-dimethoxy- (T)
2	8	P	0	2	0	1	P	S	0	1							Dinoseb (T)
2	9	P	0	2	0	1	P	S	0	1							Phenol, 2, 4-dinitro-6-(1-methylpropyl)- (T)
3	0	P	0	2	1	1	P	S	0	1							Calcium Cyanide (T)
3	1	P	0	2	2	1	P	S	0	1							Carbon Bisulfide (T)
3	2	P	0	2	2	35	P	S	0	1							Carbon Disulfide (T)
3	3	P	0	2	3	1	P	S	0	1							Acetaldehyde, chloro (T)
3	4	P	0	2	3	1	P	S	0	1							Chloroacetaldehyde (T)
3	5	P	0	2	4	1	P	S	0	1							Benzenamine, 4-chloro (T)
3	6	P	0	2	4	1	P	S	0	1							p-Chloroaniline (T)
3	7	P	0	2	6	1	P	S	0	1							1-(o-Chlorophenyl) thiourea (T)

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Description of Hazardous Wastes (Continued. Use this Additional Sheet(s) as necessary; number as 5 a, etc.)

Line Number	A. EPA Hazardous Waste No. (Enter code)				B. Estimated Annual Quantity of Waste	C. Unit of Measure (Enter code)	E. PROCESSES										(2) PROCESS DESCRIPTION (If a code is not entered in E(1))
	(1) PROCESS CODES (Enter code)																
4 0																	
0 1	P	0	2	6	1	P	S	0	1							Thiourea, (2-chlorophenyl)- (T)	
0 2	P	0	2	7	3	P	S	0	1							3-Chloropropionitrile (T)	
0 3	P	0	2	7	1	P	S	0	1							Propanenitrile, 3-chloro (T)	
0 4	P	0	2	8	1	P	S	0	1							Benzene, (chloromethyl)- (T)	
0 5	P	0	2	8	1	P	S	0	1							Benzyl Chloride (T)	
0 6	P	0	2	9	100	P	S	0	1							Copper Cyanides (T)	
0 7	P	0	3	0	1,500	P	S	0	1							Cyanides (T)	
0 8	P	0	3	1	1	P	S	0	1							Cyanogen (T)	
0 9	P	0	3	1	1	P	S	0	1							Ethanedinitrile (T)	
1 0	P	0	3	3	1	P	S	0	1							Chlorine Cyanide (T)	
1 1	P	0	3	3	1	P	S	0	1							Cyanogen Chloride (T)	
1 2	P	0	3	4	1	P	S	0	1							4, 6-Dinitro-o-cyclohexylphenol (T)	
1 3	P	0	3	4	1	P	S	0	1							Pheno, 2-cyclohexyl-4, 6-dinitro- (T)	
1 4	P	0	3	6	1	P	S	0	1							Dichlorophenylarsine (T)	
1 5	P	0	3	6	1	P	S	0	1							Phenyl Dichloroarsine (T)	
1 6	P	0	3	7	1	P	S	0	1							Dieldrin (T)	
1 7	P	0	3	7	1	P	S	0	1							1, 2, 3, 4, 10, 10-Hexachloro-6, 7-epoxy-1, 4, 4a,	
1 8						P	S	0	1							5, 6, 7, 8, 8a-octahydro-endo, exo-1, 4, 5, 8-	
1 9						P	S	0	1							dimethanonaphthalene (T)	
2 0	P	0	3	8	1	P	S	0	1							Arsine, diethyl- (T)	
2 1	P	0	3	8	1	P	S	0	1							Diethylarsine (T)	
2 2	P	0	3	9	1	P	S	0	1							O, O-Diethyl S-[2-(ethylthio) ethyl	
2 3	P					P	S	0	1							phosphorodithioate (T)	
2 4	P	0	3	9	1	P	S	0	1							Disulfoton (T)	
2 5	P	0	4	0	1	P	S	0	1							O, O-Diethyl O-pyrazinyl phosphorothioate (T)	
2 6	P	0	4	0	1	P	S	0	1							Phosphorothioic acid, O, O-dimethyl O-[p-	
2 7						P	S	0	1							((dimethylamino)-sulfonyl) phenol ester (T)	
2 8	P	0	4	1	1	P	S	0	1							Diethyl-p-nitrophenyl phosphate (T)	
2 9	P	0	4	1	1	P	S	0	1							Phosphoric acid, diethyl p-nitrophenyl ester (T)	
3 0	P	0	4	2	1	P	S	0	1							1, 2-Benzenediol, 4-[1-hydroxy-2-(methyl-	
3 1						P	S	0	1							amino) ethyl- (T)	
3 2	P	0	4	2	1	P	S	0	1							Epinephrine (T)	
3 3	P	0	4	3	1	P	S	0	1							Diisopropyl fluorophosphate (T)	
3 4	P	0	4	3	1	P	S	0	1							Phosphorofluoric acid, bis (1-methylethyl)- ester (T)	
3 5	P	0	4	4	1	P	S	0	1							Dimethoate (T)	
3 6	P	0	4	4	1	P	S	0	1							Phosphorodithioic acid, O, O-dimethyl	
3 7						P	S	0	1							S-[2-(methylamino)-2-oxoethyl] ester (T)	

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EPA ID NO: 10 H 7 5 7 1 7 2 4 3 1 2

OMB #: 2050-0034 Expires 11/30/2005

Description of Hazardous Wastes (Continued. Use this Additional Sheet(s) as necessary; number as 5 a, etc.)

Line Number	A. EPA Hazardous Waste No. (Enter code)				B. Estimated Annual Quantity of Waste	C. Unit of Measure (Enter code)	E. PROCESSES										(2) PROCESS DESCRIPTION (If a code is not entered in E(1))
	(1) PROCESS CODES (Enter code)																
4	0																
0	1	P	0	4	5	1	P	S	0	1							3, 3-Dimethyl-1-(methylthio)-2-butanone,
0	2						P	S	0	1							O-[(methylamino) carbonyl] oxime (T)
0	3	P	0	4	5	1	P	S	0	1							Thiofanox (T)
0	4	P	0	4	6	1	P	S	0	1							alpha, alpha-Dimethylphenethylamine (T)
0	5	P	0	4	6	1	P	S	0	1							Ethanamine, 1, 1-dimethyl-2-phenyl- (T)
0	6	P	0	4	7	1	P	S	0	1							4, 6-Dinitro-O-cresol and salts (T)
0	7	P	0	4	7	1	P	S	0	1							Phenol, 2, 4-dinitro-6-methyl (T)
0	8	P	0	4	8	1	P	S	0	1							2, 4-Dinitrophenol (T)
0	9	P	0	4	8	1	P	S	0	1							Phenol, 2, 4-dinitro- (T)
1	0	P	0	4	9	1	P	S	0	1							2, 4-Dithiobiuret (T)
1	1	P	0	4	9	1	P	S	0	1							Thioimidodicarbonic diamide (T)
1	2	P	0	5	0	1	P	S	0	1							Endosulfan (T)
1	3	P	0	5	0	1	P	S	0	1							5-Norbornene-2, 3-dimethanol, 1, 4, 5, 6, 7, 7,-
1	4						P	S	0	1							hexachloro, cyclic sulfite (T)
1	5	P	0	5	1	1	P	S	0	1							Endrin (T)
1	6	P	0	5	1	1	P	S	0	1							1, 2, 3, 4, 10, 10-Hexachloro-6, 7-epoxy-1, 4, 4a,
1	7						P	S	0	1							5, 6, 7, 8, 8a-octahydro-endo, endo-1, 4, 5, 8-
1	8						P	S	0	1							dimethanonaphthalene (T)
1	9	P	0	5	4	1	P	S	0	1							Azidine (T)
2	0	P	0	5	4	1	P	S	0	1							Ethyleneimine (T)
2	1	P	0	5	6	1	P	S	0	1							Fluorine (T)
2	2	P	0	5	7	1	P	S	0	1							Acetamide, 2-fluoro- (T)
2	3	P	0	5	7	1	P	S	0	1							Fluoroacetamide (T)
2	4	P	0	5	8	1	P	S	0	1							Acetic acid, fluoro-, sodium salt (T)
2	5	P	0	5	8	1	P	S	0	1							Fluoroacetic acid, sodium salt (T)
2	6	P	0	5	9	1	P	S	0	1							Heptachlor (T)
2	7	P	0	5	9	1	P	S	0	1							4, 7-Methano- 1H-indene, 1, 4, 5, 6, 7, 8, 8-hepta
2	8						P	S	0	1							chlor-3a, 4, 7, 7a-tetrahydro- (T)
2	9	P	0	6	0	1	P	S	0	1							1, 2, 3, 4, 10, 10-Hexachlor-1, 4, 4a, 5, 8, 8a-
3	0					1	P	S	0	1							hexahydro-1, 4, 5, 8-endo, endo-
3	1						P	S	0	1							dimethanonaphthalene (T)
3	2	P	0	6	0	1	P	S	0	1							Hexachlorohexahydro-exo, exo-
3	3						P	S	0	1							dimethanonaphthalene (T)
3	4	P	0	6	2	1	P	S	0	1							Hexaethyl tetraphosphate (T)
3	5	P	0	6	2	1	P	S	0	1							Tetraphosphoric acid, hexaethyl ester (T)
3	6	P	0	6	3	1	P	S	0	1							Hydrocyanic acid (T)
3	7	P	0	6	3	1	P	S	0	1							Hydrogen cyanide (T)

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Description of Hazardous Wastes (Continued. Use this Additional Sheet(s) as necessary; number as 5 a, etc.)

Line Number	A. EPA Hazardous Waste No. (Enter code)				B. Estimated Annual Quantity of Waste	C. Unit of Measure (Enter code)	E. PROCESSES										
	(1) PROCESS CODES (Enter code)										(2) PROCESS DESCRIPTION (If a code is not entered in E(1))						
4	0																
0	1	P	0	6	4	1	P	S	0	1							Isocyanic acid, methyl ester (T)
0	2	P	0	6	4	1	P	S	0	1							Methyl isocyanate (T)
0	3	P	0	6	5	1	P	S	0	1							Fulminic acid, mercury (II) salt (R, T)
0	4	P	0	6	5	1	P	S	0	1							Mercury fulminate (R, T)
0	5	P	0	6	6	1	P	S	0	1							Acetimidic acid, N-[(methyl-carbamoyl) oxy]
0	6						P	S	0	1							thio-, methyl ester (T)
0	7	P	0	6	6	1	P	S	0	1							Methomyl (T)
0	8	P	0	6	7	1	P	S	0	1							2-Methylaziridine (T)
0	9	P	0	6	7	1	P	S	0	1							1, 2-Propylenimine (T)
1	0	P	0	6	8	1	P	S	0	1							Hydrazine, methyl- (T)
1	1	P	0	6	8	1	P	S	0	1							Methyl hydrazine (T)
1	2	P	0	6	9	1	P	S	0	1							2-Methylacetonitrile (T)
1	3	P	0	6	9	1	P	S	0	1							Propanenitrile, 2-hydroxy-2-methyl- (T)
1	4	P	0	7	0	1	P	S	0	1							Aldicarb (T)
1	5	P	0	7	0	1	P	S	0	1							Propanal, 2-methyl-2-(methylthio)-, [(methylamino)
1	6						P	S	0	1							carbonyl] oxime (T)
	7	P	0	7	1	1	P	S	0	1							O, O-Dimethyl O-p-nitrophenyl phosphorothiolate (T)
1	8	P	0	7	1	1	P	S	0	1							Methyl parathion (T)
1	9	P	0	7	2	1	P	S	0	1							alpha-Naphthylthiourea (T)
2	0	P	0	7	2	1	P	S	0	1							Thiourea, 1-naphthalenyl- (T)
2	1	P	0	7	3	1	P	S	0	1							Nickel carbonyl (T)
2	2	P	0	7	3	1	P	S	0	1							Nickel tetracarbonyl (T)
2	3	P	0	7	4	1	P	S	0	1							Nickel cyanide (T)
2	4	P	0	7	4	1	P	S	0	1							Nickel (II) cyanide (T)
2	5	P	0	7	5	1	P	S	0	1							Nicotine and salts (T)
2	6	P	0	7	5	1	P	S	0	1							Pyridine, (S)-3-(1-methyl-2-pyrrolidinyl)-, and salts (T)
2	7						P	S	0	1							
2	8	P	0	7	6	1	P	S	0	1							Nitric oxide (T)
2	9	P	0	7	6	1	P	S	0	1							Nitrogen (II) oxide (T)
3	0	P	0	7	7	1	P	S	0	1							Benzenamine, 4-nitro- (T)
3	1	P	0	7	7	1	P	S	0	1							p-Nitroaniline (T)
3	2	P	0	7	8	1	P	S	0	1							Nitrogen dioxide (T)
3	3	P	0	7	8	1	P	S	0	1							Nitrogen (IV) oxide (T)
3	4	P	0	8	1	1	P	S	0	1							Nitroglycerine (R)
3	5	P	0	8	1	1	P	S	0	1							1, 2, 3-Propanetriol, trinitrate- (R)
3	6	P	0	8	2	1	P	S	0	1							Dimethylnitrosamine (T)
3	7	P	0	8	2	1	P	S	0	1							N-Nitrosodimethylamine (T)

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Description of Hazardous Wastes (Continued. Use this Additional Sheet(s) as necessary; number as 5 a, etc.)

Line Number	A. EPA Hazardous Waste No. (Enter code)				B. Estimated Annual Quantity of Waste	C. Unit of Measure (Enter code)	E. PROCESSES										(2) PROCESS DESCRIPTION (If a code is not entered in E(1))
	(1) PROCESS CODES (Enter code)																
4	0																
0	1	P	0	8	4	1	P	S	0	1							Ethenamine, N-methyl-N-nitroso- (T)
0	2	P	0	8	4	1	P	S	0	1							N-Nitrosomethylvinylamine (T)
0	3	P	0	8	5	1	P	S	0	1							Diphosphoramidate, octamethyl (T)
0	4	P	0	8	5	1	P	S	0	1							Octamethyl pyrophosphoramidate (T)
0	5	P	0	8	7	1	P	S	0	1							Osmium oxide (T)
0	6	P	0	8	7	1	P	S	0	1							Osmium tetroxide (T)
0	7	P	0	8	8	1	P	S	0	1							Endothall (T)
0	8	P	0	8	8	1	P	S	0	1							7-Oxabicyclo [2.2.1] heptane- 2, 3-dicarboxylic acid (T)
0	9						P	S	0	1							Parathion (T)
1	0	P	0	8	9	1	P	S	0	1							Phosphorothioic acid, O, O-diethyl
1	1	P	0	8	9	1	P	S	0	1							O-(p-nitrophenyl) ester (T)
1	2						P	S	0	1							Mercury, (acetalo-O) phenyl- (T)
1	3	P	0	9	2	1	P	S	0	1							Phenylmercuric acetate (T)
1	4	P	0	9	2	1	P	S	0	1							N-Phenylthiourea (T)
1	5	P	0	9	3	1	P	S	0	1							Thiourea, phenyl- (T)
1	6	P	0	9	3	1	P	S	0	1							Phorate (T)
1	7	P	0	9	4	1	P	S	0	1							Phosphorothioic acid, O, O-diethyl
1	8	P	0	9	4	1	P	S	0	1							S-(ethylthio) methyl ester (T)
1	9						P	S	0	1							Carbonyl chloride (T)
2	0	P	0	9	5	1	P	S	0	1							Phosgene (T)
2	1	P	0	9	5	1	P	S	0	1							Hydrogen phosphide (T)
2	2	P	0	9	6	1	P	S	0	1							Phosphine (T)
2	3	P	0	9	6	1	P	S	0	1							Famphur (T)
2	4	P	0	9	7	1	P	S	0	1							Phosphorothioic acid, O, O-dimethyl O-[p-(dimethyl
2	5	P	0	9	7	1	P	S	0	1							-amino)-sulfonyl] phenyl] ester (T)
2	6						P	S	0	1							Potassium cyanide (T)
2	7	P	0	9	8	30	P	S	0	1							Potassium silver cyanide (T)
2	8	P	0	9	9	1	P	S	0	1							Ethyl cyanide (T)
2	9	P	1	0	1	1	P	S	0	1							Propanenitrile (T)
3	0	P	1	0	1	1	P	S	0	1							Propargyl alcohol (T)
3	1	P	1	0	2	2	P	S	0	1							2-Propyn-1-ol (T)
3	2	P	1	0	2	1	P	S	0	1							Carbaminidoselenoic acid (T)
3	3	P	1	0	3	1	P	S	0	1							Selenourea (T)
3	4	P	1	0	3	1	P	S	0	1							Silver cyanide (T)
3	5	P	1	0	4	1	P	S	0	1							Sodium azide (T)
3	6	P	1	0	5	5	P	S	0	1							Sodium cyanide (T)
3	7	P	1	0	6	500	P	S	0	1							

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DIV. OF HAZARDOUS
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Description of Hazardous Wastes (Continued. Use this Additional Sheet(s) as necessary; number as 5 a, etc.)

Line Number		A. EPA Hazardous Waste No. (Enter code)				B. Estimated Annual Quantity of Waste	C. Unit of Measure (Enter code)	E. PROCESSES										(2) PROCESS DESCRIPTION (If a code is not entered in E(1))	
								(1) PROCESS CODES (Enter code)											
4	0																		
0	1	P	1	0	7	1	P	S	0	1									Strontium sulfide (T)
0	2	P	1	0	8	1	P	S	0	1									Strychnidin-10-one, and salts (T)
0	3	P	1	0	8	1	P	S	0	1									Strychnine and salts (T)
0	4	P	1	0	9	1	P	S	0	1									Dithiopyrophosphoric acid, tetraethyl ester (T)
0	5	P	1	0	9	1	P	S	0	1									Tetraethyldithiopyrophosphate (T)
0	6	P	1	1	0	1	P	S	0	1									Plumbane, tetraethyl- (T)
0	7	P	1	1	0	1	P	S	0	1									Tetraethyl lead (T)
0	8	P	1	1	1	1	P	S	0	1									Pyrophosphoric acid, tetraethyl ester (T)
0	9	P	1	1	1	1	P	S	0	1									Tetraethyl pyrophosphate (T)
1	0	P	1	1	2	1	P	S	0	1									Methane, tetranitro- (R)
1	1	P	1	1	2	1	P	S	0	1									Tetranitromethane (R)
1	2	P	1	1	3	1	P	S	0	1									Thallic oxide (T)
1	3	P	1	1	3	1	P	S	0	1									Thallium (III) oxide (T)
1	4	P	1	1	4	1	P	S	0	1									Thallium (I) selenite (T)
1	5	P	1	1	5	1	P	S	0	1									Sulfuric acid, thallium (I) salt (T)
1	6	P	1	1	5	1	P	S	0	1									Thallium (I) sulfate (T)
1	7	P	1	1	6	1	P	S	0	1									Hydrazinecarbothioamide (T)
1	8	P	1	1	6	1	P	S	0	1									Thiosemicarbazide (T)
1	9	P	1	1	8	1	P	S	0	1									Methanethiol, trichloro- (T)
2	0	P	1	1	8	1	P	S	0	1									Trichloromethanethiol (T)
2	1	P	1	1	9	1	P	S	0	1									Ammonium vanadate (T)
2	2	P	1	1	9	1	P	S	0	1									Vanadic acid, ammonium salt (T)
2	3	P	1	2	0	1	P	S	0	1									Vanadium pentoxide (T)
2	4	P	1	2	0	1	P	S	0	1									Vanadium (V) oxide (T)
2	5	P	1	2	1	1	P	S	0	1									Zinc cyanide (T)
2	6	P	1	2	2	1	P	S	0	1									Zinc phosphide (T)
2	7	P	1	2	3	1	P	S	0	1									Toxaphene (T)
2	8	P	1	2	7	1	P	S	0	1									Carbofuran (T)
2	9	P	1	2	7	1	P	S	0	1									7-Benzofuranol, 2, 3-dihydro-2, 2-dimethyl-,
3	0						P	S	0	1									methylcarbamate (T)
3	1	P	1	2	8	1	P	S	0	1									Mexacarbate (T)
3	2	P	1	2	8	1	P	S	0	1									Phenol, 4-(dimethylamino)-3, 5-dimethyl-,
3	3						P	S	0	1									methylcarbamate (ester) (T)
3	4	P	1	8	5	1	P	S	0	1									Tirpate (T)
3	5	P	1	8	5	1	P	S	0	1									1, 3-Dithiolane-2-carboxaldehyde, 2, 4-dimethyl-,
3	6						P	S	0	1									O-[(methylamino)-carbonyl] oxime (T)
3	7	P	1	8	8	1	P	S	0	1									Physostigmine salicylate (T)

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Description of Hazardous Wastes (Continued. Use this Additional Sheet(s) as necessary; number as 5 a, etc.)																	
Line Number		A. EPA Hazardous Waste No. (Enter code)				B. Estimated Annual Quantity of Waste	C. Unit of Measure (Enter code)	E. PROCESSES									
								(1) PROCESS CODES (Enter code)									
4	0																
0	1	P	1	8	8	1	P	S	0	1						Benzoic acid, 2-hydroxy-, compound with	
0	2						P	S	0	1						(3aS-cis)-1, 2, 3, 3a, 8, 8a-hexahydro-1, 3a,	
0	3						P	S	0	1						8-trimethylpyrrolo[2, 3-b] indol-5-yl	
0	4						P	S	0	1						methylcarbamate ester (1:1) (T)	
0	5	P	1	8	9	1	P	S	0	1						Carbosulfan (T)	
0	6	P	1	8	9	1	P	S	0	1						Carbamic acid, [(dibutylamino)-thio] methyl-,	
0	7						P	S	0	1						2, 3-dihydro-2, 2-dimethyl-7-benzofuranyl	
0	8						P	S	0	1						ester (T)	
0	9	P	1	9	0	1	P	S	0	1						Metolcarb (T)	
1	0	P	1	9	0	1	P	S	0	1						Carbamic acid, methyl-, 3-methylphenyl ester (T)	
1	1	P	1	9	1	1	P	S	0	1						Dimetilan (T)	
1	2	P	1	9	1	1	P	S	0	1						Carbamic acid, dimethyl-, 1-[(dimethyl-amino)	
1	3						P	S	0	1						carbonyl]-5-methyl-1H-pyrazol-3-yl ester (T)	
1	4	P	1	9	2	1	P	S	0	1						Isolan (T)	
1	5	P	1	9	2	1	P	S	0	1						Carbamic acid, dimethyl-, 3-methyl-1-	
1	6						P	S	0	1						(1-methylethyl)-1H-pyrazol-5-yl ester (T)	
1	7	P	1	9	4	1	P	S	0	1						Oxamyl (T)	
1	8	P	1	9	4	1	P	S	0	1						Ethanimidithioic acid, 2-(dimethylamino)-N-	
1	9						P	S	0	1						[[[(methylamino) carbonyl]oxy]-2-oxo-,	
2	0						P	S	0	1						methyl ester (T)	
2	1	P	1	9	6	1	P	S	0	1						Manganese dimethyldithiocarbamate (T)	
2	2	P	1	9	7	1	P	S	0	1						Formparanate (T)	
2	3	P	1	9	7	1	P	S	0	1						Methanimidamide, N, N-dimethyl-N'-[2-methyl-	
2	4						P	S	0	1						4-[[[(methylamino) carbonyl] oxy] phenyl]- (T)	
2	5	P	1	9	8	1	P	S	0	1						Formetanate hydrochloride (T)	
2	6	P	1	9	8	1	P	S	0	1						Methanimidamide, N, N-dimethyl-N'-[3-	
2	7						P	S	0	1						[[[(methylamino)-carbonyl] oxy] phenyl]-	
2	8						P	S	0	1						monohydrochloride (T)	
2	9	P	1	9	9	1	P	S	0	1						Methiocarb (T)	
3	0	P	1	9	9	1	P	S	0	1						Phenol, (3, 5-dimethyl-4-(methylthio)-,	
3	1						P	S	0	1						methylcarbamate (T)	
3	2	P	2	0	1	1	P	S	0	1						Promecarb (T)	
3	3	P	2	0	1	1	P	S	0	1						Phenol, 3-methyl-5-(1-methylethyl)-, methyl	
3	4						P	S	0	1						carbamate (T)	
3	5	P	2	0	2	1	P	S	0	1						m-Cumenyl methylcarbamate (T)	
3	6	P	2	0	2	1	P	S	0	1						3-Isopropylphenyl N-methylcarbamate (T)	
3	7	P	2	0	2	1	P	S	0	1						Phenol, 3-(1-methylethyl)-, methyl carbamate (T)	

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Description of Hazardous Wastes (Continued. Use this Additional Sheet(s) as necessary; number as 5 a, etc.)

Line Number	A. EPA Hazardous Waste No. (Enter code)				B. Estimated Annual Quantity of Waste	C. Unit of Measure (Enter code)	E. PROCESSES									
	(1) PROCESS CODES (Enter code)										(2) PROCESS DESCRIPTION (If a code is not entered in E(1))					
4	0															
0	1	P	2	0	3	1	P	S	0	1						Aldicarb sulfone (T)
0	2	P	2	0	3	1	P	S	0	1						Propanal, 2-methyl-2-(methyl-sulfonyl)-
0	3						P	S	0	1						O-[(methylamino) carbonyl] oxime (T)
0	4	P	2	0	4	1	P	S	0	1						Physostigmine (T)
0	5	P	2	0	4	1	P	S	0	1						Pyrrolo [2, 3-b]indol-5-ol, 1, 2, 3, 3a, 8, 8a-
0	6						P	S	0	1						hexahydro-1, 3a, 8-trimethyl-, methylcarbamate
0	7						P	S	0	1						(ester), (3aS-cis)- (T)
0	8	P	2	0	5	1	P	S	0	1						Ziram (T)
0	9	P	2	0	5	1	P	S	0	1						Zinc, bis (dimethylcarbaodithioate-S, S')- (T)
1	0						P	S	0	1						
1	1						P	S	0	1						
1	2						P	S	0	1						
1	3						P	S	0	1						
1	4						P	S	0	1						
1	5						P	S	0	1						
1	6						P	S	0	1						
	7						P	S	0	1						
1	8						P	S	0	1						
1	9						P	S	0	1						
2	0						P	S	0	1						
2	1						P	S	0	1						
2	2						P	S	0	1						
2	3						P	S	0	1						
2	4						P	S	0	1						
2	5						P	S	0	1						
2	6						P	S	0	1						
2	7						P	S	0	1						
2	8						P	S	0	1						
2	9						P	S	0	1						
3	0						P	S	0	1						
3	1						P	S	0	1						
3	2						P	S	0	1						
3	3						P	S	0	1						
3	4						P	S	0	1						
3	5						P	S	0	1						
3	6						P	S	0	1						
3	7						P	S	0	1						

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Description of Hazardous Wastes (Continued. Use this Additional Sheet(s) as necessary; number as 5 a, etc.)

Line Number		A. EPA Hazardous Waste No. (Enter code)				B. Estimated Annual Quantity of Waste	C. Unit of Measure (Enter code)	E. PROCESSES											(2) PROCESS DESCRIPTION (If a code is not entered in E(1))
								(1) PROCESS CODES (Enter code)											
4	0																		
0	1	U	0	0	1	2	P	S	0	1								Acetaldehyde (I)	
0	2	U	0	0	1	1	P	S	0	1								Ethanal (I)	
0	3	U	0	0	2	500	P	S	0	1								Acetone (I)	
0	4	U	0	0	2	1	P	S	0	1								2-Propanone (I)	
0	5	U	0	0	3	2	P	S	0	1								Acetonitrile (I, T)	
0	6	U	0	0	3	1	P	S	0	1								Ethanenitrile (I, T)	
0	7	U	0	0	4	2	P	S	0	1								Acetophenone (T)	
0	8	U	0	0	4	1	P	S	0	1								Ethanone, 1-phenyl- (T)	
0	9	U	0	0	5	1	P	S	0	1								Acetamide, -9H-fluoren-2-yl (T)	
1	0	U	0	0	5	1	P	S	0	1								2-Acetylaminofluorene (T)	
1	1	U	0	0	6	3	P	S	0	1								Acetyl chloride (C, R, T)	
1	2	U	0	0	6	1	P	S	0	1								Ethanoyl chloride (C, R, T)	
1	3	U	0	0	7	1	P	S	0	1								Acrylamide (T)	
1	4	U	0	0	7	1	P	S	0	1								2-Propenamide (T)	
1	5	U	0	0	8	1	P	S	0	1								Acrylic acid (I)	
1	6	U	0	0	8	1	P	S	0	1								2-Propenoic acid (I)	
1	7	U	0	0	9	22	P	S	0	1								Acrylonitrile (T)	
1	8	U	0	0	9	1	P	S	0	1								2-Propenenitrile (T)	
1	9	U	0	1	0	1	P	S	0	1								Mitomycin C (T)	
2	0	U	0	1	0	1	P	S	0	1								Azirino [2', 3':3, 4] pyrrolo [1, 2-a] indole-4,	
2	1						P	S	0	1								7-dione, 6-amino-8-[[[aminocarbonyl] oxy]	
2	2						P	S	0	1								methyl]-1, 1a, 2, 8a, 8b-hexahydro-8a-methoxy	
2	3						P	S	0	1								-5-methyl-, [1aS-(1aalpha, 8beta, 8aalpha,	
2	4						P	S	0	1								8balpha)]- (T)	
2	5	U	0	1	1	1	P	S	0	1								Amitrole (T)	
2	6	U	0	1	1	1	P	S	0	1								1H-1, 2, 4-Triazol-3-amine (T)	
2	7	U	0	1	2	25	P	S	0	1								Aniline (I, T)	
2	8	U	0	1	2	1	P	S	0	1								Benzenamine (I, T)	
2	9	U	0	1	4	1	P	S	0	1								Auramine (T)	
3	0	U	0	1	4	1	P	S	0	1								Benzenamine, 4, 4'-carbonimidoylbis	
3	1						P	S	0	1								(N, N-dimethyl)- (T)	
3	2	U	0	1	5	1	P	S	0	1								Azaserine (T)	
3	3	U	0	1	5	1	P	S	0	1								L-Serine, diazoacetate (ester) (T)	
3	4	U	0	1	6	1	P	S	0	1								Benz[c] acridine (T)	
3	5	U	0	1	6	1	P	S	0	1								3, 4-Benzacridine (T)	
3	6	U	0	1	7	1	P	S	0	1								Benzal chloride (T)	
3	7	U	0	1	7	1	P	S	0	1								Benzene, (dichloromethyl)- (T)	

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Description of Hazardous Wastes (Continued. Use this Additional Sheet(s) as necessary; number as 5 a, etc.)

Line Number	A. EPA Hazardous Waste No. (Enter code)	B. Estimated Annual Quantity of Waste	C. Unit of Measure (Enter code)	E. PROCESSES										
				(1) PROCESS CODES (Enter code)										(2) PROCESS DESCRIPTION (If a code is not entered in E(1))
4	0													
0	1	U 0 1 8	1	P	S	0	1							Benz[a]anthracene (T)
0	2	U 0 1 8	1	P	S	0	1							1, 2-Benzanthracene (T)
0	3	U 0 1 9	260	P	S	0	1							Benzene (l, T)
0	4	U 0 2 0	1	P	S	0	1							Benzenesulfonic acid chloride (C, R)
0	5	U 0 2 0	1	P	S	0	1							Benzenesulfonyl chloride (C, R)
0	6	U 0 2 1	1	P	S	0	1							Benzidine (T)
0	7	U 0 2 1	1	P	S	0	1							(1, 1'-Biphenyl)-4, 4'-diamine (T)
0	8	U 0 2 2	1	P	S	0	1							Benzo(a)pyrene (T)
0	9	U 0 2 2	1	P	S	0	1							3, 4-Benzopyrene (T)
1	0	U 0 2 3	20	P	S	0	1							Benzene, (trichloromethyl)- (C, R, T)
1	1	U 0 2 3	1	P	S	0	1							Benzotrifluoride (C, R, T)
1	2	U 0 2 4	1	P	S	0	1							Bis(2-chloroethoxy) methane (T)
1	3	U 0 2 4	1	P	S	0	1							Ethane, 1, 1'-(methylenabis(oxy)) bis(2-chloro)- (T)
1	4	U 0 2 5	1	P	S	0	1							Dichloroethyl ether (T)
1	5	U 0 2 5	1	P	S	0	1							Ethane, 1, 1'-oxybis(2-chloro)- (T)
1	6	U 0 2 6	1	P	S	0	1							Chloromaphazine (T)
1	7	U 0 2 6	1	P	S	0	1							2-Naphthylamine, N, N'-bis(2-chloromethyl)- (T)
1	8	U 0 2 7	1	P	S	0	1							Bis(2-chloroisopropyl) ether (T)
1	9	U 0 2 7	1	P	S	0	1							Propane, 2, 2' oxybis(2-chloro)- (T)
2	0	U 0 2 8	1	P	S	0	1							1, 2-Benzenedicarboxylic acid,
2	1			P	S	0	1							[bis(2-ethylhexyl)] ester (T)
2	2	U 0 2 8	1	P	S	0	1							Bis (2-ethylhexyl) phthalate (T)
2	3	U 0 2 9	1	P	S	0	1							Methane, bromo- (T)
2	4	U 0 2 9	1	P	S	0	1							Methyl bromide (T)
2	5	U 0 3 0	1	P	S	0	1							Benzene, 1-bromo-4-phenoxy- (T)
2	6	U 0 3 0	1	P	S	0	1							4-Bromophenyl phenyl ether (T)
2	7	U 0 3 1	70	P	S	0	1							1-Butanol (l)
2	8	U 0 3 1	1	P	S	0	1							n-Butyl alcohol (l)
2	9	U 0 3 2	1	P	S	0	1							Calcium chromate (T)
3	0	U 0 3 2	35	P	S	0	1							Chromic acid, calcium salt (T)
3	1	U 0 3 3	1	P	S	0	1							Carbon oxyfluoride (R, T)
3	2	U 0 3 3	1	P	S	0	1							Carbonyl fluoride (R, T)
3	3	U 0 3 4	1	P	S	0	1							Acetaldehyde, trichloro- (T)
3	4	U 0 3 4	1	P	S	0	1							Chloral (T)
3	5	U 0 3 5	1	P	S	0	1							Chlorambucil (T)
3	6	U 0 3 5	1	P	S	0	1							Butanoic acid, 4-[Bis(2-chloro-ethyl)
3	7			P	S	0	1							amino] benzene- (T)

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Description of Hazardous Wastes (Continued. Use this Additional Sheet(s) as necessary; number as 5 a, etc.)																
Line Number	A. EPA Hazardous Waste No. (Enter code)				B. Estimated Annual Quantity of Waste	C. Unit of Measure (Enter code)	E. PROCESSES									
	(1) PROCESS CODES (Enter code)						(2) PROCESS DESCRIPTION (If a code is not entered in E(1))									
4	0															
0	1	U	0	3	6	15	P	S	0	1						Chlordane, technical (T)
0	2	U	0	3	6	1	P	S	0	1						4, 7-Methanoindan, 1, 2, 4, 5, 6, 7, 8, 8a-
0	3						P	S	0	1						octachloro-3a, 4, 7, 7a-tetrahydro- (T)
0	4	U	0	3	7	65	P	S	0	1						Chlorobenzene (T)
0	5	U	0	3	7	1	P	S	0	1						Benzene, chloro- (T)
0	6	U	0	3	8	1	P	S	0	1						Benzeneacetic acid, 4-chloro-alpha-(4-chloro
0	7						P	S	0	1						phenyl)-alpha-hydroxy, ethyl ester (T)
0	8	U	0	3	8	1	P	S	0	1						Ethyl 4, 4'-dichlorobenzilate (T)
0	9	U	0	3	9	1	P	S	0	1						4-Chloro-m-cresol (T)
1	0	U	0	3	9	1	P	S	0	1						Phenol, 4-chloro-3-methyl (T)
1	1	U	0	4	1	1	P	S	0	1						Epichlorohydrin (T)
1	2	U	0	4	1	1	P	S	0	1						Oxirane, 2-(chloromethyl)- (T)
1	3	U	0	4	2	1	P	S	0	1						2-Chloroethyl vinyl ether (T)
1	4	U	0	4	2	1	P	S	0	1						Ethane, 2-chloroethoxy- (T)
1	5	U	0	4	3	1	P	S	0	1						Ethane, chloro- (T)
1	6	U	0	4	3	1	P	S	0	1						Vinyl chloride (T)
	7	U	0	4	4	1,100	P	S	0	1						Chloroform (T)
	8	U	0	4	4	1	P	S	0	1						Methane, trichloro- (T)
1	9	U	0	4	5	1	P	S	0	1						Methane, chloro- (I, T)
2	0	U	0	4	5	1	P	S	0	1						Methyl chloride (I, T)
2	1	U	0	4	6	1	P	S	0	1						Chloromethyl methyl ether (T)
2	2	U	0	4	6	1	P	S	0	1						Methane, chloromethoxy- (T)
2	3	U	0	4	7	4	P	S	0	1						beta-Chloronaphthalene (T)
2	4	U	0	4	7	1	P	S	0	1						Naphthalene, 2-chloro- (T)
2	5	U	0	4	8	1	P	S	0	1						o-Chlorophenol (T)
2	6	U	0	4	8	1	P	S	0	1						Phenol, 2-chloro- (T)
2	7	U	0	4	9	1	P	S	0	1						Benzenamine, 4-chloro-2- methyl (T)
2	8	U	0	4	9	1	P	S	0	1						4-Chloro-o-toluidine, hydrochloride (T)
2	9	U	0	5	0	1	P	S	0	1						1, 2-Benzphenanthrene (T)
3	0	U	0	5	0	1	P	S	0	1						Chrysene (T)
3	1	U	0	5	1	1	P	S	0	1						Creosote (T)
3	2	U	0	5	2	28	P	S	0	1						Cresols (T)
3	3	U	0	5	2	1	P	S	0	1						Cresylic acid (T)
3	4	U	0	5	3	1	P	S	0	1						2-Butenal (T)
3	5	U	0	5	3	1	P	S	0	1						Crotonaldehyde (T)
3	6	U	0	5	5	1	P	S	0	1						Benzene, (1-methylethyl)- (I)
3	7	U	0	5	5	1	P	S	0	1						Cumene (I)

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Line Number	A. EPA Hazardous Waste No. (Enter code)				B. Estimated Annual Quantity of Waste	C. Unit of Measure (Enter code)	E. PROCESSES									
	(1) PROCESS CODES (Enter code)										(2) PROCESS DESCRIPTION (If a code is not entered in E(1))					
4 0																
0 1	U	0	5	6	1	P	S	0	1							Benzene, hexahydro- (I)
0 2	U	0	5	6	200	P	S	0	1							Cyclohexane (I)
0 3	U	0	5	7	44	P	S	0	1							Cyclohexanone (I)
0 4	U	0	5	8	1	P	S	0	1							Cyclophosphamide (T)
0 5	U	0	5	8	1	P	S	0	1							2H-1, 3, 2-Oxazaphosphorine, 2-[bis(chloroethyl)-
0 6						P	S	0	1							amino] tetrahydro-, oxide 2- (T)
0 7	U	0	5	9	1	P	S	0	1							Daunomycin (T)
0 8	U	0	5	9	1	P	S	0	1							5, 12-Naphthacenedione, (8S-cis)-8-acetyl-10-
0 9						P	S	0	1							[(3-amino-2, 3, 6-trideoxy-alpha-L-lyxo-
1 0						P	S	0	1							hexopyranosyl)oxy]-7, 8, 9, 10-tetrahydro-6,
1 1						P	S	0	1							8, 11-trihydroxy-1-methoxy- (T)
1 2	U	0	6	0	1	P	S	0	1							DDD (T)
1 3	U	0	6	0	1	P	S	0	1							Dichloro diphenyl dichloroethane (T)
1 4	U	0	6	1	1	P	S	0	1							DDT (T)
1 5	U	0	6	1	1	P	S	0	1							Dichloro diphenyl trichloroethane (T)
1 6	U	0	6	2	1	P	S	0	1							Diallate (T)
1 7	U	0	6	2	1	P	S	0	1							S-(2, 3-Dichlorallyl) diiso-propylthiocarbamate (T)
1 8	U	0	6	3	1	P	S	0	1							1, 2:5, 6-Dibenzanthracene (T)
1 9	U	0	6	3	1	P	S	0	1							Dibenz[a, h]anthracene (T)
2 0	U	0	6	4	1	P	S	0	1							1, 2:7, 8-Dibenzopyrene (T)
2 1	U	0	6	4	1	P	S	0	1							Dibenz[a, i]pyrene (T)
2 2	U	0	6	6	1	P	S	0	1							1, 2-Dibromo-3-chloropropane (T)
2 3	U	0	6	6	1	P	S	0	1							Propane, 1, 2-dibromo-3-chloro (T)
2 4	U	0	6	7	1	P	S	0	1							Ethane, 1, 2-dibromo (T)
2 5	U	0	6	7	2	P	S	0	1							Ethylene dibromide (T)
2 6	U	0	6	8	1	P	S	0	1							Methane, dibromo- (T)
2 7	U	0	6	8	1	P	S	0	1							Methylene bromide (T)
2 8	U	0	6	9	3	P	S	0	1							Dibutyl phthalate (T)
2 9	U	0	6	9	1	P	S	0	1							1, 2-Benzenedicarboxylic acid, dibutyl ester (T)
3 0	U	0	7	0	4	P	S	0	1							Benzene, 1, 2-dichloro- (T)
3 1	U	0	7	0	1	P	S	0	1							o-Dichlorobenzene (T)
3 2	U	0	7	1	1	P	S	0	1							Benzene, 1, 3-dichloro- (T)
3 3	U	0	7	1	15	P	S	0	1							m-Dichlorobenzene (T)
3 4	U	0	7	2	1	P	S	0	1							Benzene, 1, 4-dichloro- (T)
3 5	U	0	7	2	2	P	S	0	1							p-Dichlorobenzene (T)
3 6	U	0	7	3	1	P	S	0	1							3, 3'-Dichlorobenzidine (T)
3 7	U	0	7	3	1	P	S	0	1							(1, 1'-Biphenyl)-4, 4'-diamine, 3, 3'-dichloro- (T)

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Description of Hazardous Wastes (Continued. Use this Additional Sheet(s) as necessary; number as 5 a, etc.)																
Line Number	A. EPA Hazardous Waste No. (Enter code)				B. Estimated Annual Quantity of Waste	C. Unit of Measure (Enter code)	E. PROCESSES									
	(1) PROCESS CODES (Enter code)						(2) PROCESS DESCRIPTION (If a code is not entered in E(1))									
4	0															
0	1	U	0	7	4	1	P	S	0	1						2-Butene, 1, 4-dichloro- (I, T)
0	2	U	0	7	4	1	P	S	0	1						1, 4-Dichloro-2-butene (I, T)
0	3	U	0	7	5	1	P	S	0	1						Dichlorodifluoromethane (T)
0	4	U	0	7	5	1	P	S	0	1						Methane, dichlorodifluoro- (T)
0	5	U	0	7	6	3,000	P	S	0	1						Ethane, 1, 1-dichloro- (T)
0	6	U	0	7	6	1	P	S	0	1						Ethylidene dichloride (T)
0	7	U	0	7	7	1	P	S	0	1						Ethane, 1, 2-dichloro- (T)
0	8	U	0	7	7	1	P	S	0	1						Ethylene dichloride (T)
0	9	U	0	7	8	1	P	S	0	1						1, 1-Dichloroethylene (T)
1	0	U	0	7	8	1	P	S	0	1						Ethene, 1, 1-dichloro- (T)
1	1	U	0	7	9	1	P	S	0	1						1, 2-Dichloroethylene (T)
1	2	U	0	7	9	1	P	S	0	1						Ethene, trans-1, 2-dichloro- (T)
1	3	U	0	8	0	815	P	S	0	1						Methane, dichloro- (T)
1	4	U	0	8	0	1	P	S	0	1						Methylene chloride (T)
1	5	U	0	8	1	1	P	S	0	1						2, 4-Dichlorophenol (T)
1	6	U	0	8	1	1	P	S	0	1						Phenol, 2, 4-dichloro- (T)
1	7	U	0	8	2	1	P	S	0	1						2, 6-Dichlorophenol (T)
1	8	U	0	8	2	1	P	S	0	1						Phenol, 2, 6-dichloro- (T)
1	9	U	0	8	3	1	P	S	0	1						1, 2-Dichloropropane (T)
2	0	U	0	8	3	1	P	S	0	1						Propylene dichloride (T)
2	1	U	0	8	4	1	P	S	0	1						1, 3-Dichloropropane (T)
2	2	U	0	8	4	1	P	S	0	1						Propene, 1, 3-dichloro- (T)
2	3	U	0	8	5	1	P	S	0	1						2, 2'-Bioxirane (I, T)
2	4	U	0	8	5	1	P	S	0	1						1, 2:3, 4-Diepoxybutane (I, T)
2	5	U	0	8	6	1	P	S	0	1						N, N-Diethylhydrazine (T)
2	6	U	0	8	6	1	P	S	0	1						Hydrazine, 1, 2-diethyl (T)
2	7	U	0	8	7	1	P	S	0	1						O, O-Diethyl-S-methyl-dithiophosphate (T)
2	8	U	0	8	7	1	P	S	0	1						Phosphorodithioic acid, O, O-diethyl
2	9					1	P	S	0	1						S-methyl ester (T)
3	0	U	0	8	8	1	P	S	0	1						1, 2-Benzenedicarboxylic acid, diethyl ester (T)
3	1	U	0	8	8	2	P	S	0	1						Diethyl phthalate (T)
3	2	U	0	8	9	1	P	S	0	1						Diethylstilbesterol (T)
3	3	U	0	8	9	1	P	S	0	1						Phenol, 4, 4'-(1, 2-diethyl-1, 2-ethenediyl)bis- (E)- (T)
3	4	U	0	9	0	1	P	S	0	1						Benzene, 1, 2-methylenedioxy-4-propyl- (T)
3	5	U	0	9	0	1	P	S	0	1						Dihydrosafrole (T)
3	6	U	0	9	1	1	P	S	0	1						(1,1'-Biphenyl)-4, 4'-diamine, 3, 3'-dimethoxy- (T)
3	7	U	0	9	1	1	P	S	0	1						3, 3'-Dimethoxybenzidine (T)

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Line Number		A. EPA Hazardous Waste No. (Enter code)				B. Estimated Annual Quantity of Waste	C. Unit of Measure (Enter code)	E. PROCESSES											(2) PROCESS DESCRIPTION (If a code is not entered in E(1))
								(1) PROCESS CODES (Enter code)											
4	0																		
0	1	U	0	9	2	1	P	S	0	1								Dimethylamine (I)	
0	2	U	0	9	2	1	P	S	0	1								Methanamine, N-methyl- (I)	
0	3	U	0	9	3	1	P	S	0	1								Benzenamine, N, N'-dimethyl-4-phenylazo- (T)	
0	4	U	0	9	3	1	P	S	0	1								Dimethylaminoazobenzene (T)	
0	5	U	0	9	4	1	P	S	0	1								1, 2-Benzanthracene, 7, 12-dimethyl- (T)	
0	6	U	0	9	4	1	P	S	0	1								7, 12-Dimethylbenz[a]anthracene (T)	
0	7	U	0	9	5	1	P	S	0	1								(1, 1'-Biphenyl)-4, 4'-diamine, 3, 3'-dimethyl- (T)	
0	8	U	0	9	5	1	P	S	0	1								3, 3'-Dimethylbenzidine (T)	
0	9	U	0	9	6	1,500	P	S	0	1								alpha, alpha-Dimethylbenzyl-hydroperoxide (R)	
1	0	U	0	9	6	1	P	S	0	1								Hydroperoxide, 1-methyl-1-phenylethyl- (R)	
1	1	U	0	9	7	1	P	S	0	1								Carbamoyl chloride, dimethyl- (T)	
1	2	U	0	9	7	1	P	S	0	1								Dimethylcarbamoyl chloride (T)	
1	3	U	0	9	8	3	P	S	0	1								1, 1-Dimethylhydrazine (T)	
1	4	U	0	9	8	1	P	S	0	1								Hydrazine, 1, 1-dimethyl (T)	
1	5	U	0	9	9	1	P	S	0	1								1, 2-Dimethylhydrazine (T)	
1	6	U	0	9	9	1	P	S	0	1								Hydrazine, 1, 2-dimethyl (T)	
1	7	U	1	0	1	2	P	S	0	1								2, 4-Dimethylphenol (T)	
1	8	U	1	0	1	1	P	S	0	1								Phenol, 2, 4-dimethyl (T)	
1	9	U	1	0	2	1	P	S	0	1								1, 2-Benzenedicarboxylic acid, dimethyl ester (T)	
2	0	U	1	0	2	1	P	S	0	1								Dimethyl phthalate (T)	
2	1	U	1	0	3	1	P	S	0	1								Dimethyl sulfate (T)	
2	2	U	1	0	3	1	P	S	0	1								Sulfuric acid, dimethyl ester (T)	
2	3	U	1	0	5	1	P	S	0	1								Benzene, 1-methyl-1,2, 4-dinitro- (T)	
2	4	U	1	0	5	1	P	S	0	1								2, 4-Dinitrotoluene (T)	
2	5	U	1	0	6	1	P	S	0	1								Benzene, 1-methyl-2, 6-dinitro- (T)	
2	6	U	1	0	6	1	P	S	0	1								2, 6-Dinitrotoluene (T)	
2	7	U	1	0	7	1	P	S	0	1								1, 2-Benzenedicarboxylic acid, di-n-octyl ester (T)	
2	8	U	1	0	7	1	P	S	0	1								Di-n-octyl phthalate (T)	
2	9	U	1	0	8	1	P	S	0	1								1, 4-Diethylene dioxide (T)	
3	0	U	1	0	8	15	P	S	0	1								1, 4-Dioxane (T)	
3	1	U	1	0	9	1	P	S	0	1								1, 2-Diphenylhydrazine (T)	
3	2	U	1	0	9	1	P	S	0	1								Hydrazine, 1, 2-diphenyl- (T)	
3	3	U	1	1	0	1	P	S	0	1								Dipropylamine (I)	
3	4	U	1	1	0	1	P	S	0	1								1-Propanamine, N-propyl- (I)	
3	5	U	1	1	1	1	P	S	0	1								Di-N-propylnitrosamine (T)	
3	6	U	1	1	1	1	P	S	0	1								N-Nitroso-N-propylamine (T)	
3	7	U	1	1	2	1	P	S	0	1								Acetic acid, ethyl ester (I)	

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Description of Hazardous Wastes (Continued. Use this Additional Sheet(s) as necessary; number as 5 a, etc.)

Line Number		A. EPA Hazardous Waste No. (Enter code)				B. Estimated Annual Quantity of Waste	C. Unit of Measure (Enter code)	E. PROCESSES											(2) PROCESS DESCRIPTION (If a code is not entered in E(1))
								(1) PROCESS CODES (Enter code)											
4	0																		
0	1	U	1	1	2	16,000	P	S	0	1									Ethyl acetate (I)
0	2	U	1	1	3	1	P	S	0	1									Ethyl acrylate (I)
0	3	U	1	1	3	1	P	S	0	1									2-Propenoic acid, ethyl ester (I)
0	4	U	1	1	4	1	P	S	0	1									1, 2-Ethanedithiolbiscarbamodithioic acid (T)
0	5	U	1	1	4	1	P	S	0	1									Ethylene bis (dithiocarbamic acid) (T)
0	6	U	1	1	5	1	P	S	0	1									Ethylene oxide (I, T)
0	7	U	1	1	5	1	P	S	0	1									Oxirane (I, T)
0	8	U	1	1	6	1	P	S	0	1									Ethylene thiourea (T)
0	9	U	1	1	6	1	P	S	0	1									2-Imidazolidinethione (T)
1	0	U	1	1	7	1	P	S	0	1									Ethane, 1, 1'-oxybis- (I)
1	1	U	1	1	7	485	P	S	0	1									Ethyl ether (I)
1	2	U	1	1	8	1	P	S	0	1									Ethylmethacrylate (T)
1	3	U	1	1	8	1	P	S	0	1									2-Propenoic acid, 2-methyl-, ethyl ester (T)
1	4	U	1	1	9	1	P	S	0	1									Ethyl methanesulfonate (T)
1	5	U	1	1	9	1	P	S	0	1									Methanesulfonic acid, ethyl ester (T)
1	6	U	1	2	0	1	P	S	0	1									Benzo[a], k]fluorene (T)
1	7	U	1	2	0	1	P	S	0	1									Fluoranthene (T)
1	8	U	1	2	1	1	P	S	0	1									Methane, trichlorofluoro- (T)
1	9	U	1	2	1	1	P	S	0	1									Trichloromono-fluoromethane (T)
2	0	U	1	2	2	200	P	S	0	1									Formaldehyde (T)
2	1	U	1	2	2	1	P	S	0	1									Methylene oxide (T)
2	2	U	1	2	3	12	P	S	0	1									Formic acid (C, T)
2	3	U	1	2	3	1	P	S	0	1									Methanoic acid (C, T)
2	4	U	1	2	4	2	P	S	0	1									Furan (I)
2	5	U	1	2	4	1	P	S	0	1									Furfuran (I)
2	6	U	1	2	5	200	P	S	0	1									2-Furancarboxaldehyde (I)
2	7	U	1	2	5	1	P	S	0	1									Furfural (I)
2	8	U	1	2	6	1	P	S	0	1									Glycidylaldehyde (T)
2	9	U	1	2	6	1	P	S	0	1									1-Propanol, 2, 3-epoxy- (T)
3	0	U	1	2	7	1	P	S	0	1									Benzene, hexachloro- (T)
3	1	U	1	2	7	2	P	S	0	1									Hexachlorobenzene (T)
3	2	U	1	2	8	1	P	S	0	1									1, 3-Butadiene, 1, 1, 2, 3, 4, 4-hexachloro (T)
3	3	U	1	2	8	1	P	S	0	1									Hexachlorobutadiene (T)
3	4	U	1	2	9	1	P	S	0	1									Hexachlorocyclohexane (gamma isomer) (T)
3	5	U	1	2	9	1	P	S	0	1									Lindane (T)
3	6	U	1	3	0	1	P	S	0	1									1, 3-Cyclopentadiene, 1, 2, 3, 4, 5, 5-hexa-chloro- (T)
3	7	U	1	3	0	1	P	S	0	1									Hexachlorocyclopentadiene (T)

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Line Number		A. Hazardous Waste No. (Enter code)				B. Estimated Annual Quantity of Waste	C. Unit of Measure (Enter code)	E. PROCESSES										(2) PROCESS DESCRIPTION (If a code is not entered in E(1))
								(1) PROCESS CODES (Enter code)										
4	0																	
0	1	U	1	3	1	1	P	S	0	1							Ethane, 1, 1, 1, 2, 2, 2-hexachloro- (T)	
0	2	U	1	3	1	2	P	S	0	1							Hexachloroethane (T)	
0	3	U	1	3	2	1	P	S	0	1							Hexachlorophene (T)	
0	4	U	1	3	2	1	P	S	0	1							2, 2'-Methylenebis (3, 4, 6-trichlorophenol) (T)	
0	5	U	1	3	3	1	P	S	0	1							Diamine (R, T)	
0	6	U	1	3	3	6	P	S	0	1							Hydrazine (R, T)	
0	7	U	1	3	4	1	P	S	0	1							Hydrofluoric acid (C, T)	
0	8	U	1	3	4	260	P	S	0	1							Hydrogen fluoride (C, T)	
0	9	U	1	3	5	1	P	S	0	1							Hydrogen sulfide (T)	
1	0	U	1	3	5	1	P	S	0	1							Sulfur hydride (T)	
1	1	U	1	3	6	1	P	S	0	1							Cacodylic acid (T)	
1	2	U	1	3	6	1	P	S	0	1							Hydroxydimethylarsine oxide (T)	
1	3	U	1	3	7	1	P	S	0	1							Ideno[1, 2, 3-cd] pyrene (T)	
1	4	U	1	3	7	1	P	S	0	1							1, 10-(1, 2-phenylene) pyrene (T)	
1	5	U	1	3	8	1	P	S	0	1							Methyl iodide (T)	
1	6	U	1	3	8	2	P	S	0	1							Methane, iodo- (T)	
	7	U	1	3	9	1	P	S	0	1							Ferric dextran (T)	
1	8	U	1	3	9	1	P	S	0	1							Iron dextran (T)	
1	9	U	1	4	0	3	P	S	0	1							Isobutyl alcohol (l; T)	
2	0	U	1	4	0	1	P	S	0	1							1-Propanol, 2-methyl- (l, T)	
2	1	U	1	4	1	1	P	S	0	1							Benzene, 1, 2-methylenedioxy-4-propenyl- (T)	
2	2	U	1	4	1	1	P	S	0	1							Isosafrole (T)	
2	3	U	1	4	2	1	P	S	0	1							Decachlorooctahydro-1, 3, 4-methano-2H-	
2	4						P	S	0	1							cyclobuta [c, d]-pentalen-2-one (T)	
2	5	U	1	4	2	1	P	S	0	1							Kepon (T)	
2	6	U	1	4	3	1	P	S	0	1							Lasiocarpine (T)	
2	7	U	1	4	4	1	P	S	0	1							Acetic acid, lead salt (T)	
2	8	U	1	4	4	4	P	S	0	1							Lead acetate (T)	
2	9	U	1	4	5	1	P	S	0	1							Lead phosphate (T)	
3	0	U	1	4	5	8	P	S	0	1							Phosphoric acid, lead salt (T)	
3	1	U	1	4	6	1	P	S	0	1							Lead subacetate (T)	
3	2	U	1	4	7	1	P	S	0	1							2, 5-Furandione (T)	
3	3	U	1	4	7	2	P	S	0	1							Maleic anhydride (T)	
3	4	U	1	4	8	1	P	S	0	1							1, 2-Dihydro-3, 6-pyridazine-dione (T)	
3	5	U	1	4	8	1	P	S	0	1							Maleic hydrazine (T)	
3	6	U	1	4	9	1	P	S	0	1							Malononitrile (T)	
3	7	U	1	4	9	1	P	S	0	1							Propanedinitrile (T)	

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Line Number		A. EPA Hazardous Waste No. (Enter code)				B. Estimated Annual Quantity of Waste	C. Unit of Measure (Enter code)	E. PROCESSES											(2) PROCESS DESCRIPTION (If a code is not entered in E(1))
								(1) PROCESS CODES (Enter code)											
4	0																		
0	1	U	1	5	0	4	P	S	0	1								Alamine, 3-[p-bis(2-chloroethyl) amino]	
0	2	U					P	S	0	1								phenyl-, L- (T)	
0	3	U	1	5	0	4	P	S	0	1								Melphalon (T)	
0	4	U	1	5	1	1,600	P	S	0	1								Mercury (T)	
0	5	U	1	5	2	1	P	S	0	1								Methacrylonitrile (I, T)	
0	6	U	1	5	2	1	P	S	0	1								2-Propenenitrile, 2-methyl- (I, T)	
0	7	U	1	5	3	1	P	S	0	1								Methanethiol (I, T)	
0	8	U	1	5	3	1	P	S	0	1								Thiomethanol (I, T)	
0	9	U	1	5	4	1	P	S	0	1								Methanol (I)	
1	0	U	1	5	4	1,500	P	S	0	1								Methyl alcohol (I)	
1	1	U	1	5	5	1	P	S	0	1								Methapyrene (T)	
1	2	U	1	5	5	1	P	S	0	1								Pyridine, 2-[(2-(dimethyl amino)-2-thienylamino)-	
1	3	U	1	5	6	1	P	S	0	1								Carbonochloridic acid, methyl ester (I, T)	
1	4	U	1	5	6	35	P	S	0	1								Methyl chlorocarbonate (I, T)	
1	5	U	1	5	7	1	P	S	0	1								Benz[<i>l</i>]aceanthrylene, 1, 2-dihydro-3-methyl- (T)	
1	6	U	1	5	7	1	P	S	0	1								3-Methylcholanthrene (T)	
	7	U	1	5	8	1	P	S	0	1								Benzenamine, 4, 4'-methylenebis(2-chloro- (T)	
1	8	U	1	5	8	1	P	S	0	1								4, 4'-Methylenebis (2-chloroaniline) (T)	
1	9	U	1	5	9	1	P	S	0	1								2-Butanone (I, T)	
2	0	U	1	5	9	1,100	P	S	0	1								Methyl ethyl ketone (I, T)	
2	1	U	1	6	0	1	P	S	0	1								2-Butanone peroxide (R, T)	
2	2	U	1	6	0	1	P	S	0	1								Methyl ethyl ketone peroxide (R, T)	
2	3	U	1	6	1	1	P	S	0	1								Methyl isobutyl ketone (I)	
2	4	U	1	6	1	1	P	S	0	1								4-Methyl-2-pentanone (I)	
2	5	U	1	6	2	1	P	S	0	1								Methyl methacrylate (I, T)	
2	6	U	1	6	2	1	P	S	0	1								2-Propenoic acid, 2-methyl-, methyl ester (I, T)	
2	7	U	1	6	3	1	P	S	0	1								Guanidine, N-nitroso-N-methyl-N' nitro- (T)	
2	8	U	1	6	3	1	P	S	0	1								N-Methyl-N'-nitro-N-nitroso guanidine (T)	
2	9	U	1	6	4	1	P	S	0	1								Methylthiouracil (T)	
3	0	U	1	6	4	1	P	S	0	1								4(1H)-Pyrimidinone, 2, 3-dihydro-6-methyl-	
3	1						P	S	0	1								2-thioxo- (T)	
3	2	U	1	6	5	1	P	S	0	1								Naphthalene (T)	
3	3	U	1	6	6	1	P	S	0	1								1, 4-Naphthalenedione (T)	
3	4	U	1	6	6	1	P	S	0	1								1, 2-Naphthaquinone (T)	
3	5	U	1	6	7	1	P	S	0	1								1-Naphthylamine (T)	
3	6	U	1	6	7	1	P	S	0	1								alpha-Naphthylamine (T)	
3	7	U	1	6	8	1	P	S	0	1								2-Naphthylene (T)	

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Line Number	A. EPA Hazardous Waste No. (Enter code)				B. Estimated Annual Quantity of Waste	C. Unit of Measure (Enter code)	E. PROCESSES										(2) PROCESS DESCRIPTION (If a code is not entered in E(1))
	(1) PROCESS CODES (Enter code)																
4	0																
0	1	U	1	6	8	1	P	S	0	1							beta-Naphthylamine (T)
0	2	U	1	6	9	1	P	S	0	1							Benzene, nitro- (I, T)
0	3	U	1	6	9	1	P	S	0	1							Nitrobenzene (I, T)
0	4	U	1	7	0	1	P	S	0	1							p-Nitrophenol (T)
0	5	U	1	7	0	1	P	S	0	1							Phenol, 4-nitro- (T)
0	6	U	1	7	1	1	P	S	0	1							2-Nitropropane (T)
0	7	U	1	7	1	1	P	S	0	1							Propane, 2-nitro- (T)
0	8	U	1	7	2	1	P	S	0	1							1-Butanamine, N-butyl-N-nitroso- (T)
0	9	U	1	7	2	1	P	S	0	1							N-Nitrosodi-n-butylamine (T)
1	0	U	1	7	3	1	P	S	0	1							Ethanol, 2, 2'-(nitrosoimino)bis- (T)
1	1	U	1	7	3	1	P	S	0	1							N-Nitrosodiethanolamine (T)
1	2	U	1	7	4	1	P	S	0	1							Ethanamine, N-ethyl-N-nitroso- (T)
1	3	U	1	7	4	1	P	S	0	1							N-Nitrosodiethylamine (T)
1	4	U	1	7	6	1	P	S	0	1							Carbamide, N-methyl-N-nitroso- (T)
1	5	U	1	7	6	1	P	S	0	1							N-Nitroso-N-ethylurea (T)
1	6	U	1	7	7	1	P	S	0	1							Carbamide, N-methyl-N-nitroso- (T)
	7	U	1	7	7	1	P	S	0	1							N-Nitroso-N-methylurea (T)
1	8	U	1	7	8	1	P	S	0	1							Carbamic acid, methyl/nitroso-, ethyl ester (T)
1	9	U	1	7	8	1	P	S	0	1							N-Nitroso-N-methylurethane (T)
2	0	U	1	7	9	1	P	S	0	1							N-Nitrosopiperidine (T)
2	1	U	1	7	9	1	P	S	0	1							Pyridine, hexahydro-N-nitroso- (T)
2	2	U	1	8	0	1	P	S	0	1							N-Nitrosopyrrolidine (T)
2	3	U	1	8	0	1	P	S	0	1							Pyrrole, tetrahydro-N-nitroso- (T)
2	4	U	1	8	1	1	P	S	0	1							Benzenamine, 2-methyl-5-nitro- (T)
2	5	U	1	8	1	1	P	S	0	1							5-Nitro-o-toluidine (T)
2	6	U	1	8	2	1,500	P	S	0	1							Paraldehyde (T)
2	7	U	1	8	2	1	P	S	0	1							1, 3, 5-Trioxane, 2, 4, 5-trimethyl- (T)
2	8	U	1	8	3	1	P	S	0	1							Benzene, pentachloro- (T)
2	9	U	1	8	3	2	P	S	0	1							Pentachlorobenzene (T)
3	0	U	1	8	4	1	P	S	0	1							Ethane, pentachloro- (T)
3	1	U	1	8	4	1	P	S	0	1							Pentachloroethane (T)
3	2	U	1	8	5	1	P	S	0	1							Benzene, pentachloro-nitro (T)
3	3	U	1	8	5	1	P	S	0	1							Pentachloronitrobenzene (T)
3	4	U	1	8	6	1	P	S	0	1							1-Methylbutadiene (I)
3	5	U	1	8	6	1	P	S	0	1							1, 3-Pentadiene (I)
3	6	U	1	8	7	1	P	S	0	1							Acetamide, N-(4-ethoxyphenyl)- (T)
3	7	U	1	8	7	1	P	S	0	1							Phenacetyl (T)

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Line Number		A. EPA Hazardous Waste No. (Enter code)				B. Estimated Annual Quantity of Waste	C. Unit of Measure (Enter code)	E. PROCESSES										(2) PROCESS DESCRIPTION (If a code is not entered in E(1))
								(1) PROCESS CODES (Enter code)										
4	0																	
0	1	U	1	8	8	1	P	S	0	1							Benzene, hydroxy- (T)	
0	2	U	1	8	8	4	P	S	0	1							Phenol (T)	
0	3	U	1	8	9	1	P	S	0	1							Phosphorous sulfide (R)	
0	4	U	1	8	9	1	P	S	0	1							Sulfur phosphide (R)	
0	5	U	1	9	0	20	P	S	0	1							1, 2-Benzenedicarboxylic acid, anhydride (T)	
0	6	U	1	9	0	1	P	S	0	1							Phthalic anhydride (T)	
0	7	U	1	9	1	1	P	S	0	1							2-Picoline (T)	
0	8	U	1	9	1	1	P	S	0	1							Pyridine, 2-methyl- (T)	
0	9	U	1	9	2	1	P	S	0	1							3, 5-Dichloro-N-(1, 1-dimethyl-2-propynyl)	
1	0						P	S	0	1							benzamide (T)	
1	1	U	1	9	2	1	P	S	0	1							Pronamide (T)	
1	2	U	1	9	3	1	P	S	0	1							1, 2-Oxathiolane, 2, 2-dioxide (T)	
1	3	U	1	9	3	1	P	S	0	1							1, 3-Propane sulfone (T)	
1	4	U	1	9	4	1	P	S	0	1							1-Propanamine (I, T)	
1	5	U	1	9	4	1	P	S	0	1							n-Propylamine (I, T)	
1	6	U	1	9	6	175	P	S	0	1							Pyridine (T)	
1	7	U	1	9	7	1	P	S	0	1							p-Benzoquinone (T)	
1	8	U	1	9	7	1	P	S	0	1							1, 4-Cyclohexadienedione (T)	
1	9	U	2	0	0	1	P	S	0	1							Reserpine (T)	
2	0	U	2	0	0	1	P	S	0	1							Yohimban-16-carboxylic acid, 11-17-dimethoxy	
2	1						P	S	0	1							-18-[(3, 4, 5-trimethoxy-benzoyloxy)-methyl	
2	2						P	S	0	1							ester (T)	
2	3	U	2	0	1	2	P	S	0	1							Resorcinol (T)	
2	4	U	2	0	1	1	P	S	0	1							1, 3-Benzenediol (T)	
2	5	U	2	0	2	1	P	S	0	1							1, 2-Benzisothiazolin-3-one, 1, 1-dioxide (T)	
2	6	U	2	0	2	1	P	S	0	1							Saccharin and salts (T)	
2	7	U	2	0	3	1	P	S	0	1							Benzene, 1, 2-methylenedioxy-4-allyl (T)	
2	8	U	2	0	3	1	P	S	0	1							Safrole (T)	
2	9	U	2	0	4	2	P	S	0	1							Selenious acid (T)	
3	0	U	2	0	4	2	P	S	0	1							Selenium dioxide (T)	
3	1	U	2	0	5	1	P	S	0	1							Selenium disulfide (R, T)	
3	2	U	2	0	5	1	P	S	0	1							Sulfur selenide (R, T)	
3	3	U	2	0	6	1	P	S	0	1							Streptozotocin (T)	
3	4	U	2	0	6	1	P	S	0	1							D-Glucopyranose, 2-deoxy-2 (3-methyl-3-	
3	5						P	S	0	1							nitrosoureido)- (T)	
3	6	U	2	0	7	1	P	S	0	1							Benzene, 1, 2, 4, 5-tetrachloro- (T)	
3	7	U	2	0	7	1	P	S	0	1							1, 2, 4, 5-Tetrachlorobenzene (T)	

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Line Number	A. EPA Hazardous Waste No. (Enter code)	B. Estimated Annual Quantity of Waste	C. Unit of Measure (Enter code)	E. PROCESSES												
				(1) PROCESS CODES (Enter code)										(2) PROCESS DESCRIPTION (If a code is not entered in E(1))		
4 0																
0 1	U 2 0 8	1	P	S	0	1										Ethane, 1, 1, 1, 2-tetrachloro- (T)
0 2	U 2 0 8	1	P	S	0	1										1, 1, 1, 2-Tetrachloroethane (T)
0 3	U 2 0 9	1	P	S	0	1										Ethane, 1, 1, 2, 2-tetrachloro- (T)
0 4	U 2 0 9	20	P	S	0	1										1, 1, 2, 2-Tetrachloroethane (T)
0 5	U 2 1 0	1	P	S	0	1										Ethene, 1, 1, 2, 2-tetrachloro- (T)
0 6	U 2 1 0	1,500	P	S	0	1										Tetrachloroethylene (T)
0 7	U 2 1 1	140	P	S	0	1										Carbon tetrachloride (T)
0 8	U 2 1 1	30	P	S	0	1										Methane, tetrachloro- (T)
0 9	U 2 1 3	1	P	S	0	1										Furan, tetrahydro- (I)
1 0	U 2 1 3	1,200	P	S	0	1										Tetrahydrofuran (I)
1 1	U 2 1 4	1	P	S	0	1										Acetic acid, thallium (I) salt (T)
1 2	U 2 1 4	1	P	S	0	1										Thallium (I) acetate (T)
1 3	U 2 1 5	1	P	S	0	1										Carbonic acid, dithallium (I) salt (T)
1 4	U 2 1 5	1	P	S	0	1										Thallium (I) carbonate (T)
1 5	U 2 1 6	1	P	S	0	1										Thallium (I) chloride (T)
1 6	U 2 1 7	1	P	S	0	1										Thallium (I) nitrate (T)
1 7	U 2 1 8	1	P	S	0	1										Ethanethioamide (T)
1 8	U 2 1 8	1	P	S	0	1										Thioacetamide (T)
1 9	U 2 1 9	1	P	S	0	1										Carbamide, thio (T)
2 0	U 2 1 9	1	P	S	0	1										Thiourea (T)
2 1	U 2 2 0	1	P	S	0	1										Benzene, methyl (T)
2 2	U 2 2 0	2,200	P	S	0	1										Toluene (T)
2 3	U 2 2 1	1	P	S	0	1										Diannitrotoluene (T)
2 4	U 2 2 1	2	P	S	0	1										Toluenediamine (T)
2 5	U 2 2 2	1	P	S	0	1										Benzenamine, 2-methyl-, hydrochloride (T)
2 6	U 2 2 2	1	P	S	0	1										o-Toluidine diisocyanate (T)
2 7	U 2 2 3	1	P	S	0	1										Benzene, 1, 3-diisocyanato-methyl- (R, T)
2 8	U 2 2 3	1	P	S	0	1										Toluene diisocyanate (R, T)
2 9	U 2 2 5	1	P	S	0	1										Bromoform (T)
3 0	U 2 2 5	1	P	S	0	1										Methane, tribromo- (T)
3 1	U 2 2 6	1	P	S	0	1										Methylchloroform (T)
3 2	U 2 2 6	4,500	P	S	0	1										1, 1, 1-Trichloroethane (T)
3 3	U 2 2 7	1	P	S	0	1										Ethane, 1, 1, 2-trichloro- (T)
3 4	U 2 2 7	40	P	S	0	1										1, 1, 2-Trichloroethane (T)
3 5	U 2 2 8	1	P	S	0	1										Trichloroethene (T)
3 6	U 2 2 8	1,530	P	S	0	1										Trichloroethylene (T)
3 7	U 2 3 4	1	P	S	0	1										Benzene, 1, 3, 5-trinitro- (R, T)

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Description of Hazardous Wastes (Continued. Use this Additional Sheet(s) as necessary; number as 5 a, etc.)

Line Number		A. EPA Hazardous Waste No. (Enter code)				B. Estimated Annual Quantity of Waste	C. Unit of Measure (Enter code)	E. PROCESSES										(2) PROCESS DESCRIPTION (If a code is not entered in E(1))
								(1) PROCESS CODES (Enter code)										
4	0																	
0	1	U	2	3	4	1	P	S	0	1							Sym-Trinitrobenzene (R, T)	
0	2	U	2	3	5	1	P	S	0	1							1-Propanol, 2, 3-dibromo-, phosphate (3:1) (T)	
0	3	U	2	3	5	1	P	S	0	1							Tris (2, 3-dibromopropyl) phosphate (T)	
0	4	U	2	3	6	1	P	S	0	1							Typan blue (T)	
0	5	U	2	3	6	1	P	S	0	1							2, 7-Naphthalenedisulfonic acid, 3, 3'-[3, 3'-	
0	6						P	S	0	1							dimethyl-(1, 1'-biphenyl)-4, 4'-diyl]-bis(azo)	
0	7						P	S	0	1							bis(5 amino-4-hydroxyl)-, tetrasodium salt (T)	
0	8	U	2	3	7	1	P	S	0	1							Uracil, 5[bis(2-chloromethyl) amino]- (T)	
0	9	U	2	3	7	1	P	S	0	1							Uracil mustard (T)	
1	0	U	2	3	8	1	P	S	0	1							Ethyl carbamate (urethan) (T)	
1	1	U	2	3	8	1	P	S	0	1							Carbamic acid, ethyl ester (T)	
1	2	U	2	3	9	1	P	S	0	1							Benzene, dimethyl- (l, T)	
1	3	U	2	3	9	1,155	P	S	0	1							Xylene (l, T)	
1	4	U	2	4	0	1	P	S	0	1							2, 4-D, salts and esters (T)	
1	5	U	2	4	0	1	P	S	0	1							2, 4-Dichlorophenoxyacetic acid, salts and esters (T)	
1	6	U	2	4	3	1	P	S	0	1							1-Propene, 1, 1, 2, 3, 3, 3-hexachloro- (T)	
1	7	U	2	4	3	1	P	S	0	1							Hexachloropropene (T)	
1	8	U	2	4	4	1	P	S	0	1							Bis(dimethylthiocarbamoyl) disulfide (T)	
1	9	U	2	4	4	1	P	S	0	1							Thiram (T)	
2	0	U	2	4	6	1	P	S	0	1							Bromine cyanide (T)	
2	1	U	2	4	6	1	P	S	0	1							Cyanogen bromide (T)	
2	2	U	2	4	7	1	P	S	0	1							Methoxychlor (T)	
2	3	U	2	4	7	1	P	S	0	1							Ethane, 1, 1, 1-trichloro-2, 2-bis(p-methoxy-	
2	4						P	S	0	1							phenyl) (T)	
2	5	U	2	4	8	1	P	S	0	1							3-(alpha-Acetylbenzyl)-4-hydroxycoumarin	
2	6						P	S	0	1							and salts (T)	
2	7	U	2	4	8	1	P	S	0	1							Warfarin and salts (T)	
2	8	U	2	4	9	1	P	S	0	1							Zinc phosphide (T)	
2	9	U	2	7	1	1	P	S	0	1							Benomyl (T)	
3	0	U	2	7	1	1	P	S	0	1							Carbamic acid, [1-[(butylamino) carbonyl]-1H-	
3	1						P	S	0	1							benzimidazol-2-yl]-; methyl ester (T)	
3	2	U	2	7	8	1	P	S	0	1							Bendiocarb (T)	
3	3	U	2	7	8	1	P	S	0	1							1, 3-Benzodioxol-4-ol, 2, 2-dimethyl-, methyl	
3	4						P	S	0	1							carbamate (T)	
3	5	U	2	7	9	1	P	S	0	1							Carbaryl (T)	
3	6	U	2	7	9	1	P	S	0	1							1-Naphthalenol, methylcarbamate (T)	
3	7	U	2	8	0	1	P	S	0	1							Barban (T)	

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EPA ID NO: 10H71571724312

OMB #: 2050-0034 Expires 11/30/2005

Description of Hazardous Wastes (Continued. Use this Additional Sheet(s) as necessary; number as 5 a, etc.)

Line Number	A. EPA Hazardous Waste No. (Enter code)				B. Estimated Annual Quantity of Waste	C. Unit of Measure (Enter code)	E. PROCESSES										(2) PROCESS DESCRIPTION (If a code is not entered in E(1))
	(1) PROCESS CODES (Enter code)																
4 0																	
0 1	U	2	8	0	1	P	S	0	1								Carbamic acid, (3-chlorophenyl)-, 4-chloro-
0 2						P	S	0	1								2-butynyl ester (T)
0 3	U	3	2	8	1	P	S	0	1								Benzenamine, 2-methyl- (T)
0 4	U	3	2	8	1	P	S	0	1								o-Toluidine (T)
0 5	U	3	5	3	1	P	S	0	1								Benzenamine, 4-methyl- (T)
0 6	U	3	5	3	1	P	S	0	1								p-Toluidine (T)
0 7	U	3	5	9	1	P	S	0	1								Ethanol, 2-ethoxy- (T)
0 8	U	3	5	9	1	P	S	0	1								Ethylene glycol monoethyl ether (T)
0 9	U	3	6	4	1	P	S	0	1								Bendiocarb phenol (T)
1 0	U	3	6	4	1	P	S	0	1								1, 3-Benzodioxol-4-ol, 2, 2-dimethyl- (T)
1 1	U	3	6	7	1	P	S	0	1								Carbofuran phenol (T)
1 2	U	3	6	7	1	P	S	0	1								7-Benzofuranol, 2, 3-dihydro-2, 2-dimethyl- (T)
1 3	U	3	7	2	1	P	S	0	1								Carbendazim (T)
1 4	U	3	7	2	1	P	S	0	1								Carbamic acid, 1H-benzimidazol-2-yl,
1 5						P	S	0	1								methyl ester (T)
1 6	U	3	7	3	1	P	S	0	1								Propham (T)
1 7	U	3	7	3	1	P	S	0	1								Carbamic acid, phenyl-, 1-methylethyl ester (T)
1 8	U	3	8	7	1	P	S	0	1								Prosulfocarb (T)
1 9	U	3	8	7	1	P	S	0	1								Carbamothioic acid, dipropyl-, S-(phenylmethyl)
2 0						P	S	0	1								ester (T)
2 1	U	3	8	9	1	P	S	0	1								Triallate (T)
2 2	U	3	8	9	1	P	S	0	1								Carbamothioic acid, bis(1-methylethyl)-, S-
2 3						P	S	0	1								(2, 3, 3-trichloro-2-propenyl) ester (T)
2 4	U	3	9	4	1	P	S	0	1								A2213 (T)
2 5	U	3	9	4	1	P	S	0	1								Ethanimidothioic acid, 2-(dimethylamino)-N-
2 6						P	S	0	1								hydroxy-2-oxo-, methyl ester (T)
2 7	U	3	9	5	1	P	S	0	1								Diethylene glycol, dicarbamate (T)
2 8	U	3	9	5	1	P	S	0	1								Ethanol, 2, 2'-oxybis-, dicarbamate (T)
2 9	U	4	0	4	1	P	S	0	1								Ethanamine, N, N-diethyl- (T)
3 0	U	4	0	4	1	P	S	0	1								Triethylamine (T)
3 1	U	4	0	9	1	P	S	0	1								Thiophanate-methyl (T)
3 2	U	4	0	9	1	P	S	0	1								Carbamic acid, [1, 2-phenylenebis
3 3						P	S	0	1								(iminocarbonothioyl)]bis-, dimethyl ester (T)
3 4	U	4	1	0	1	P	S	0	1								Thiodicarb (T)
3 5	U	4	1	0	1	P	S	0	1								Ethanimidothioic acid, N, N'-[thiobis
3 6						P	S	0	1								[(methylimino) carbonyloxy]]bis-,
3 7						P	S	0	1								dimethyl ester (T)

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EPA ID NO: | O | H | 7 | 5 | 7 | 1 | 7 | 2 | 4 | 3 | 1 | 2 |

OMB #: 2050-0034 Expires 11/30/2005

Description of Hazardous Wastes (Continued. Use this Additional Sheet(s) as necessary; number as 5 a, etc.)

Line Number	A. EPA Hazardous Waste No. (Enter code)					B. Estimated Annual Quantity of Waste	C. Unit of Measure (Enter code)	E. PROCESSES									
								(1) PROCESS CODES (Enter code)									
4	0																
0	1	U	4	1	1	1	P	S	0	1							Propoxur (T)
0	2	U	4	1	1	1	P	S	0	1							Phenol, 2-(1-methylethoxy)-, methylcarbamate (T)
0	3	F	0	2	7	1	P	S	0	1							Acetic acid, (2, 4, 5-trichlorophenoxy)- (T)
0	4	F	0	2	7	1	P	S	0	1							Pentachlorophenol (T)
0	5	F	0	2	7	1	P	S	0	1							Phenol, pentachloro- (T)
0	6	F	0	2	7	1	P	S	0	1							Phenol, 2, 3, 4,6-tetrachloro- (T)
0	7	F	0	2	7	1	P	S	0	1							Phenol, 2, 4, 5-trichloro- (T)
0	8	F	0	2	7	1	P	S	0	1							Phenol, 2, 4, 6-trichloro- (T)
0	9	F	0	2	7	1	P	S	0	1							Propanoic acid, 2-(2, 4, 5-trichlorophenoxy)- (T)
1	0	F	0	2	7	1	P	S	0	1							Silvex (2, 4, 5-TP) (T)
1	1	F	0	2	7	1	P	S	0	1							2, 4, 5-T (T)
1	2	F	0	2	7	1	P	S	0	1							2, 3, 4, 6-Tetrachlorophenol (T)
1	3	F	0	2	7	1	P	S	0	1							2, 4, 5-Trichlorophenol (T)
1	4	F	0	2	7	1	P	S	0	1							2, 4, 6-Trichlorophenol (T)
1	5						P	S	0	1							(T)
1	6						P	S	0	1							(T)
1	7						P	S	0	1							(T)
1	8						P	S	0	1							(T)
1	9						P	S	0	1							(T)
2	0						P	S	0	1							(T)
2	1						P	S	0	1							(T)
2	2						P	S	0	1							(T)
2	3						P	S	0	1							(T)
2	4						P	S	0	1							(T)
2	5						P	S	0	1							(T)
2	6						P	S	0	1							(T)
2	7						P	S	0	1							(T)
2	8						P	S	0	1							(T)
2	9						P	S	0	1							(T)
3	0						P	S	0	1							(T)
3	1						P	S	0	1							(T)
3	2						P	S	0	1							(T)
3	3						P	S	0	1							(T)
3	4						P	S	0	1							(T)
3	5						P	S	0	1							(T)
3	6						P	S	0	1							(T)
3	7						P	S	0	1							(T)

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11. Map (See instructions on pages 25 and 26)

Attach to this application a topographic map, or other equivalent map, of the area extending to at least one mile beyond property boundaries. The map must show the outline of the facility, the location of each of its existing and proposed intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all springs, rivers and other surface water bodies in this map area. See instructions for precise requirements.

12. Facility Drawing (See instructions on page 26)


All existing facilities must include a scale drawing of the facility (see instructions for more detail).

13. Photographs (See instructions on page 26)

All existing facilities must include photographs (aerial or ground-level) that clearly delineate all existing structures; existing storage, treatment and disposal areas; and sites of future storage, treatment or disposal areas (see instructions for more detail).

14. Comments (See instructions on page 26)

JUN 27 2011

MAIL THE COMPLETED FORM TO: Ohio EPA, DERR P.O. Box 1049 Columbus, OH 43216-1049	 <div style="text-align: center;"> RCRA SUBTITLE C SITE IDENTIFICATION FORM </div>		For Ohio EPA Use Only
1. Reason for Submittal	Reason for Submittal: <input type="checkbox"/> Obtaining or updating an EPA ID number for regulated activity <input type="checkbox"/> As a component of the Hazardous Waste Report for the year ____ <input type="checkbox"/> Notifying that regulated activity is no longer occurring at this site <input checked="" type="checkbox"/> As a component of a First or Revised RCRA Hazardous Waste Part A Permit Application		
2. Site EPA ID Number	OH7571724312		
3. Site Name	WRIGHT-PATTERSON AIR FORCE BASE		
4. Site Location Information	Street Address: 1918 13 TH STREET		
	City, Town, or Village: WPAFB		County: GREENE
	State: OH	Country: USA	Zip: 45433
5. Site Land Type	<input type="checkbox"/> Private <input type="checkbox"/> County <input type="checkbox"/> District <input checked="" type="checkbox"/> Federal <input type="checkbox"/> Indian <input type="checkbox"/> Municipal <input type="checkbox"/> State <input type="checkbox"/> Other		
6. North American Industry Classification System (NAICS)	A. (Primary) 928110		B.
	C.		D.
7. Site Contact Person:	First Name: EMILY		MI: A
	Last Name: ERDEI		
	Title: HAZARDOUS WASTE PROGRAM MANAGER		
	Street or P.O. Box: 1450 LITTRELL ROAD		
	City, Town or Village: WPAFB		
	State: OH	Country: USA	Zip Code: 45433
	E-mail: EMILY.ERDEI@US.AF.MIL		
	Phone & Ext.: (937) 257-0023		Fax: N/A
8. Legal Owner and Operator of the Site Additional Owners and/or Operators should be listed in the Comment Section or on another copy of this form page.	Name of Site's Legal Owner: UNITED STATES AIR FORCE		Date Became Owner (mm/dd/yyyy): 01/13/1948
	Owner Type: <input type="checkbox"/> Private <input type="checkbox"/> County <input type="checkbox"/> District <input checked="" type="checkbox"/> Federal <input type="checkbox"/> Indian <input type="checkbox"/> Municipal <input type="checkbox"/> State <input type="checkbox"/> Other		
	Street or P.O. Box: 5135 Pearson Rd		City: WPAFB
	State: OH	Country: USA	Zip Code: 45433
	Email: 88abw.cc@us.af.mil		Phone: (937) 257-8800
	Name of Site's Operator: UNITED STATES AIR FORCE		Date Became Operator (mm/dd/yyyy): 01/13/1948
	Operator Type: <input type="checkbox"/> Private <input type="checkbox"/> County <input type="checkbox"/> District <input checked="" type="checkbox"/> Federal <input type="checkbox"/> Indian <input type="checkbox"/> Municipal <input type="checkbox"/> State <input type="checkbox"/> Other		
	Street or P.O. Box: 5135 Pearson Rd		City: WPAFB
	State: OH	Country: USA	Zip Code: 45433
	Email: 88abw.cc@us.af.mil		Phone: (937) 257-8800

9. Type of Regulated Waste Activity (If "Yes" Mark "X" in the appropriate boxes.)																	
A. Hazardous Waste Activities: 1. Generator of Hazardous Waste (choose only one of the following three categories or leave blank if not a Generator) <input checked="" type="checkbox"/> a. Large Quantity Generator (LQG): Greater than 1,000 kg/mo (2,200 lbs.) of non-acute hazardous waste; or <input type="checkbox"/> b. Small Quantity Generator (SQG): 100 to 1,000 kg/mo (220-2,200 lbs.) of non-acute hazardous waste; or <input type="checkbox"/> c. Conditionally Exempt Small Quantity Generator (CESQG): Less than 100 kg/mo of non-acute hazardous waste In addition, indicate other generator activities (check all that apply) <input type="checkbox"/> d. Temporary Generator (generate from a one-time event and not from on-going processes). If "Yes", provide an explanation in the Comments. <input type="checkbox"/> e. Episodic Generator (a CESQG or SQG with an episodic event of limited duration that has put the site into a higher generator category) <input type="checkbox"/> f. Mixed Waste (hazardous and radioactive) Generator 2. Hazardous Waste Report Generator Status (choose one only if the Reason for Submittal is the Hazardous Waste Report) <input checked="" type="checkbox"/> a. Large Quantity Generator (LQG): Greater than 1,000 kg (2,200 lbs.) of non-acute hazardous waste was generated at the site in any one month; or <input type="checkbox"/> b. Small Quantity Generator (SQG): In one or more months, the site generated greater than 100 kg (220 lbs.) but in no month, did it generate more than 1,000 kg (2,200 lbs.) of non-acute hazardous waste; or <input type="checkbox"/> c. Conditionally Exempt Small Quantity Generator (CESQG): The site generated no more than 100 kg (220 lbs.) of non-acute hazardous waste in any one month; or <input type="checkbox"/> d. Non-Generator: The site did not generate any hazardous waste during the calendar year.	3. Transporter of Hazardous Waste <input type="checkbox"/> a. Transporter <input type="checkbox"/> b. Transfer Facility (at your site) <input checked="" type="checkbox"/> 4. Treater, Storer or Disposer of Hazardous Waste (at your site) Note: A hazardous waste permit is required for this activity. 5. Recycler of Hazardous Waste (at your site) Note: A hazardous waste permit may be required for this activity. <input type="checkbox"/> a. Recycler who stores prior to recycling <input type="checkbox"/> b. Recycler who does not store prior to recycling <input type="checkbox"/> c. 72-hour Recycler 6. Exempt Boiler and/or Industrial Furnace <input type="checkbox"/> a. Small Quantity On-site Burner Exemption <input type="checkbox"/> b. Smelting, Melting and Refining Furnace Exemption <input type="checkbox"/> 7. Underground Injection Control <input checked="" type="checkbox"/> 8. Receives Hazardous Waste from Off-site <input type="checkbox"/> 9. United States Importer of Hazardous Waste 10. Recognized Trader <input type="checkbox"/> a. Importer <input type="checkbox"/> b. Exporter 11. Spent Lead Acid Battery <input type="checkbox"/> a. Importer <input type="checkbox"/> b. Exporter <input type="checkbox"/> 12. Electronic Manifest Broker																
B. Universal Waste Activities 1. Large Quantity Handler of Universal Waste (accumulate 5,000 kg or more): <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 80%;"></th> <th style="width: 20%; text-align: center;"><u>Managed</u></th> </tr> </thead> <tbody> <tr> <td>a. Batteries</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> <tr> <td>b. Pesticides</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> <tr> <td>c. Mercury Containing Equipment</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> <tr> <td>d. Lamps</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> <tr> <td>e. Aerosol Cans</td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>f. Antifreeze</td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>g. Paint / Paint Related</td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> </tbody> </table> <input type="checkbox"/> 2. Destination Facility for Universal Waste Note: A hazardous waste permit may be required for this activity.		<u>Managed</u>	a. Batteries	<input checked="" type="checkbox"/>	b. Pesticides	<input checked="" type="checkbox"/>	c. Mercury Containing Equipment	<input checked="" type="checkbox"/>	d. Lamps	<input checked="" type="checkbox"/>	e. Aerosol Cans	<input type="checkbox"/>	f. Antifreeze	<input type="checkbox"/>	g. Paint / Paint Related	<input type="checkbox"/>	C. Used Oil Activities: 1. Used Oil Transporter <input type="checkbox"/> a. Transporter <input type="checkbox"/> b. Transfer Facility (at your site) 2. Used Oil Processor and/or Re-refiner <input type="checkbox"/> a. Processor <input type="checkbox"/> b. Re-refiner <input type="checkbox"/> 3. Off-Specification Used Oil Burner 4. Used Oil Fuel Marketer <input type="checkbox"/> a. Marketer Who Directs Shipment of Off-Specification Used Oil to Off-Specification Used Oil Burner <input type="checkbox"/> b. Marketer Who First Claims the Used Oil Meets the Specifications
	<u>Managed</u>																
a. Batteries	<input checked="" type="checkbox"/>																
b. Pesticides	<input checked="" type="checkbox"/>																
c. Mercury Containing Equipment	<input checked="" type="checkbox"/>																
d. Lamps	<input checked="" type="checkbox"/>																
e. Aerosol Cans	<input type="checkbox"/>																
f. Antifreeze	<input type="checkbox"/>																
g. Paint / Paint Related	<input type="checkbox"/>																

D. Eligible Academic Entities with Laboratories – Notification for opting into or withdrawing from managing laboratory hazardous wastes pursuant to OAC rules 3745-52-200 through 3745-52-216

- ☐ 1. Opting into or currently operating under OAC rules 3745-52-200 through 3745-52-216 for the management of hazardous wastes in laboratories. Mark all that apply:
- ☐ a. College or University
 - ☐ b. Teaching hospital that is owned by or has a formal written affiliation agreement with a college or university
 - ☐ c. Non-profit Institute that is owned by or has a formal written affiliation agreement with a college or university
- ☐ 2. Withdrawing from OAC rules 3745-52-200 through 3745-52-216 for the management of hazardous waste in laboratories

10. Waste codes for Federally Regulated Hazardous Wastes. Please list the codes for the federally regulated hazardous waste handled at your site. List them in the order they are presented in the regulations (e.g., D001, D003, F007, U112). Use an additional page if more space is needed.

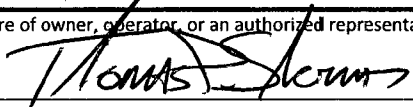
D001	D002	D003	D004	D005	D006
D007	D008	D009	D010	D011	D012
D013	D014	D015	D016	D017	D018
D019	D020	D021	D022	D023	D024

11. Comments

REPORTED WEIGHTS ARE DERIVED BY ROUNDING CONTAINER WEIGHTS UP. ACTUAL WEIGHTS TRACKED MAY VARY SLIGHTLY FROM THOSE REPORTED.

12. Certification. I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or person who manage the system, or those persons directly responsible for gathering the information, the information is submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature of owner, operator, or an authorized representative



Name (type or print)
THOMAS P. SHERMAN

Email
THOMAS.SHERMAN@US.AF.MIL

Official Title
COLONEL, USAF, COMMANDER

Date (mm/dd/yyyy)

07/30/2018

Signature of owner, operator, or an authorized representative

Name (type or print)

Email

Official Title

Date (mm/dd/yyyy)

WRIGHT-PATTERSON AIR FORCE BASE

RCRA SUBTITLE C SITE IDENTIFICATION FORM

Block 10 Additional Waste Codes:

D025, D026, D027, D028, D029, D030, D031, D032, D033, D034, D035, D036, D037, D038, D039, D040, D041, D042, D043, F001, F002, F003, F004, F005, F006, F007, F008, F009, F010, F011, F012, F019, F020, F021, F022, F023, F024, F025, F026, F027, F028, F039, U001, U002, U003, U004, U005, U006, U007, U008, U009, U010, U011, U012, U014, U015, U016, U017, U018, U019, U020, U021, U022, U023, U024, U025, U026, U027, U028, U029, U030, U031, U032, U033, U034, U035, U036, U037, U038, U039, U041, U042, U043, U044, U045, U046, U047, U048, U049, U050, U051, U052, U053, U055, U056, U057, U058, U059, U060, U061, U062, U063, U064, U066, U067, U068, U069, U070, U071, U072, U073, U074, U075, U076, U077, U078, U079, U080, U081, U082, U082, U083, U084, U085, U086, U087, U088, U089, U090, U091, U092, U093, U094, U095, U096, U097, U098, U099, U101, U102, U103, U105, U106, U107, U108, U109, U110, U111, U112, U113, U114, U115, U116, U117, U118, U119, U120, U121, U122, U123, U124, U125, U126, U127, U128, U129, U130, U131, U132, U133, U134, U135, U136, U137, U138, U140, U141, U142, U143, U144, U145, U146, U147, U148, U149, U150, U151, U152, U153, U154, U155, U156, U157, U158, U159, U160, U161, U162, U163, U164, U165, U166, U167, U168, U169, U170, U171, U172, U173, U174, U176, U177, U178, U179, U180, U181, U182, U183, U184, U185, U186, U187, U188, U189, U190, U191, U192, U193, U194, U196, U197, U200, U201, U202, U203, U204, U205, U206, U207, U208, U209, U210, U211, U213, U214, U215, U216, U217, U218, U219, U220, U221, U222, U223, U225, U226, U227, U228, U234, U235, U236, U237, U238, U239, U240, U243, U244, U247, U248, U249, U271, U278, U279, U280, U328, U353, U359, U364, U367, U372, U373, U387, U389, U394, U395, U404, U408, U409, P001, P002, P003, P004, P005, P006, P007, P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P020, P021, P022, P023, P024, P026, P027, P028, P029, P030, P031, P033, P034, P036, P037, P038, P039, P040, P041, P042, P043, P044, P045, P046, P047, P048, P049, P050, P051, P054, P056, P057, P058, P059, P060, P062, P063, P064, P065, P066, P067, P068, P069, P070, P071, P072, P073, P074, P075, P076, P077, P078, P081, P082, P084, P085, P087, P088, P089, P092, P093, P094, P095, P096, P097, P098, P099, P101, P102, P103, P104, P105, P106, P108, P109, P110, P111, P112, P113, P114, P115, P116, P118, P119, P120, P121, P122, P123, P127, P128, P185, P188, P189, P190, P191, P192, P194, P196, P197, P198, P199, P201, P202, P203, P204, P205

FACILITY PERMITS

		Permit Type
GW Treatment Plant	1IN00156*ED	E
Basewide NPDES	1IO00001*DD	N
04-29-0475	Ohio HW	E

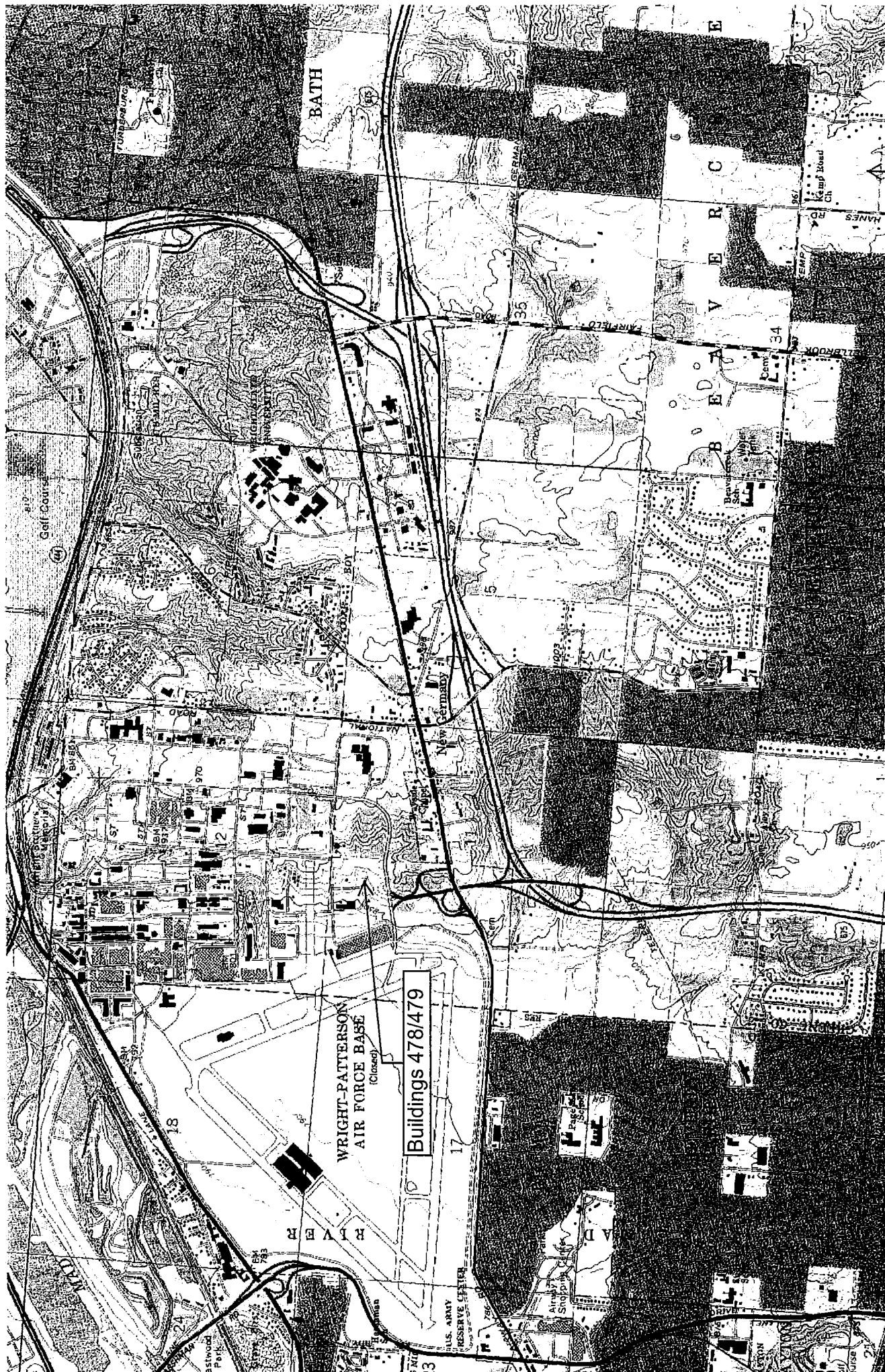
OEPA #**	PTI #	Facility	Description	Permit Type
B310	08-185	20770	boiler, 185 MMBtu/hr coal-fired boiler #3	P
B309	08-186	20770	boiler, 183 MMBtu/hr coal-fired boiler #4	P
B311	08-187	20770	boiler, 183 MMBtu/hr coal-fired boiler #5	P
B308	08-2745	20770	boiler, 96.9 MMBtu/hr natural gas boiler #1	P
B307	08-2745	20770	boiler, 96.9 MMBtu/hr natural gas boiler #2	P
N302	08-3594	20306	classified material incinerator (new)	P
B606	08-0181	31240	boiler, 152 MMBtu/hr coal-fired (#4), International Boiler Works	P
B607	08-0182	31240	boiler, 152 MMBtu/hr coal-fired (#5), International Boiler Works	P
B608	08-0183	31240	boiler, 152 MMBtu/hr coal-fired (#6), International Boiler Works	P
B609	08-3486	31240	boiler, 99.8 MMBtu/hr gas (#3), International Boiler Works	P

** 0829700441 followed by the letter/number in this column is the Title V permit designation for each of these sources.

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NORTH

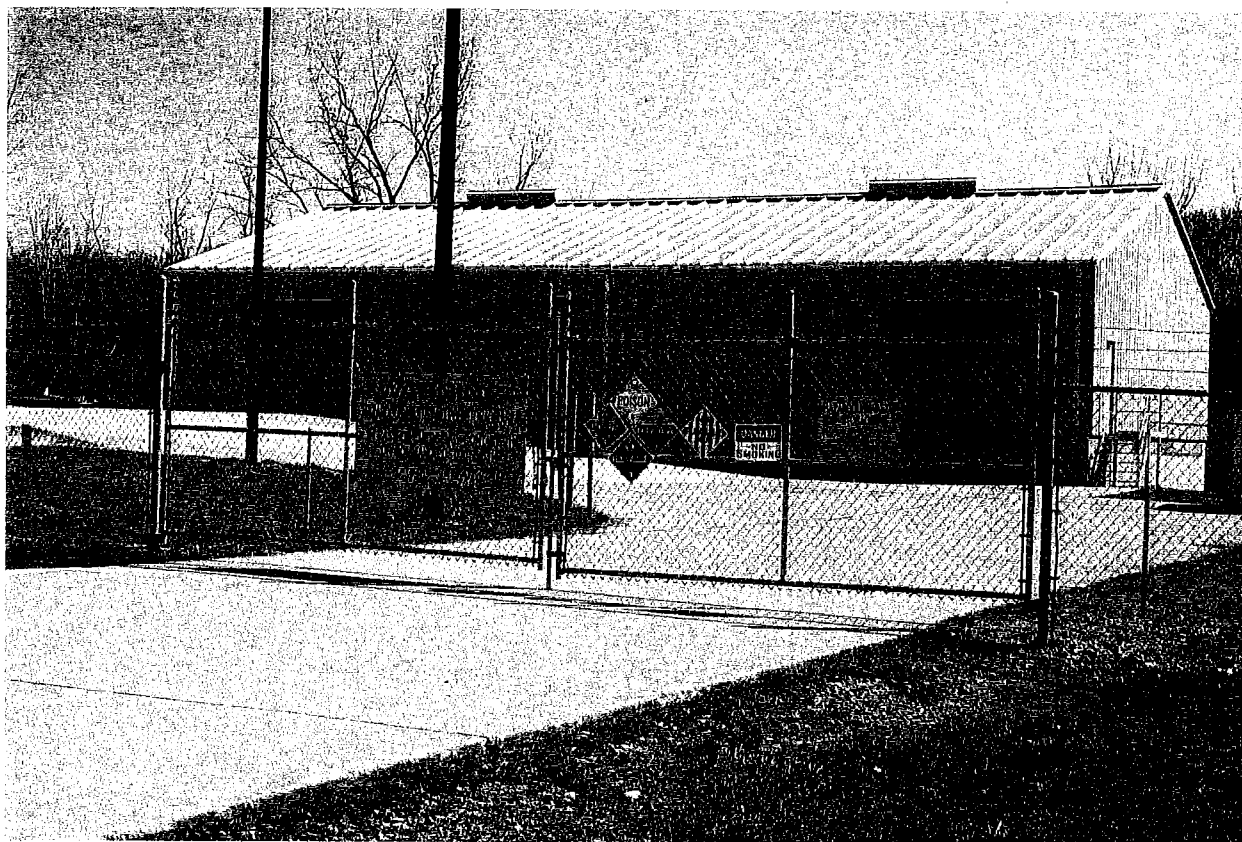
Figure B-1. Site Location Map

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Map Not To Scale

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SEPTEMBER 2010



Building 479 (S01 Storage)

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SEPTEMBER 2010



Building 479 (S01 Storage)

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REVISION 0
SEPTEMBER 2010



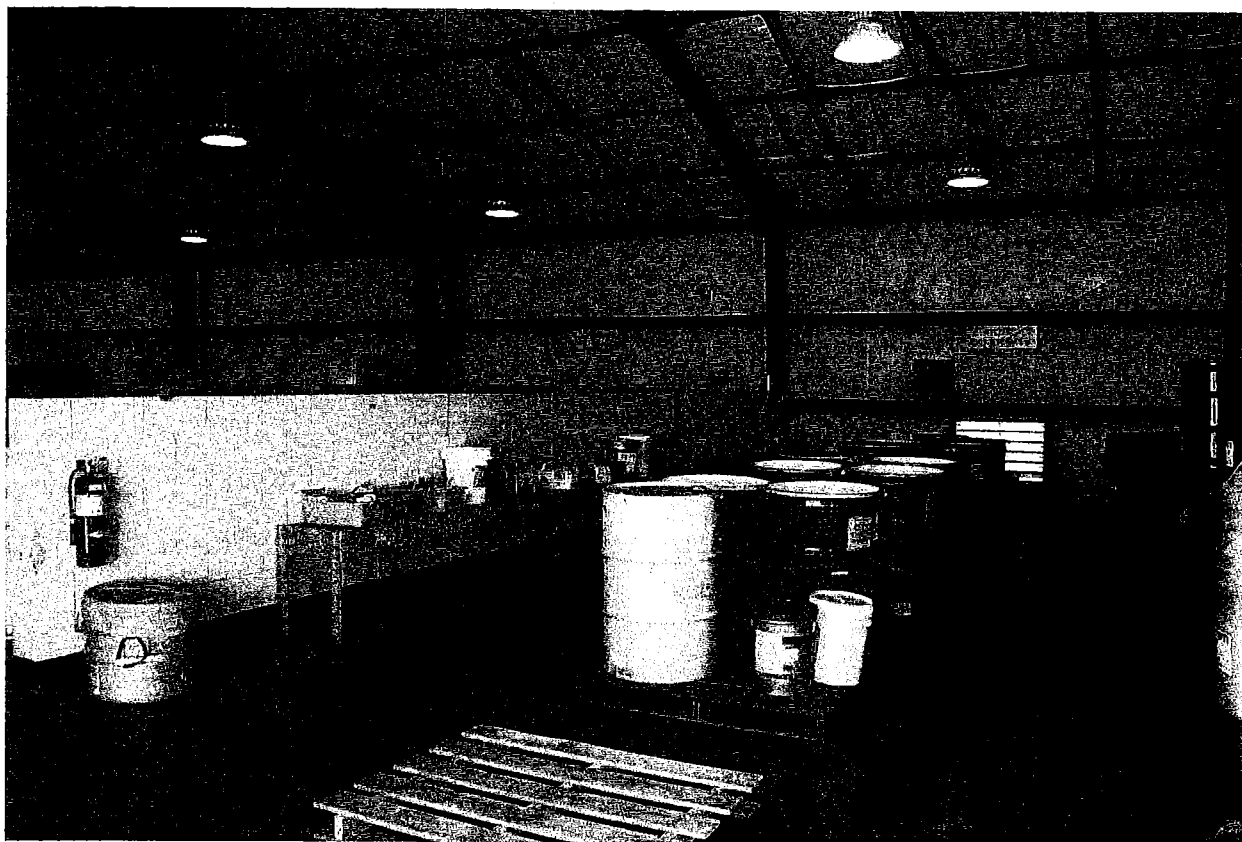
Building 479 (S01 Storage)

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SEPTEMBER 2010



Building 479 (S01 Storage)

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SECTION B**FACILITY DESCRIPTION**

This section provides a general description of the hazardous waste management unit (HWMU) as required by 40 CFR 270.14(b) and OAC 3745-50-41. The following description is intended to acquaint the permit application reviewer and permit writer with an overview of the facility. More complete details can be found in other parts of this permit application.

B-1 General Description [40 CFR 270.14(b)(1) Guidance]

In 1980, the Department of Defense (DoD) designated the Defense Logistics Agency (DLA) as the organization responsible for the disposal of hazardous materials/wastes. The DLA Disposition Services (DLA-DS) manages the disposal of hazardous waste for DoD activities, maximizing the use of each item and minimizing environmental risks and costs. THE DLA-DS DOES NOT DISPOSE OF RADIOLOGICAL OR RADIOACTIVE MIXED WASTE. THIS RESPONSIBILITY FALLS TO THE U. S. ARMY. THE LIASON FOR RADIOACTIVE MIXED WASTE IS THE AIR FORCE RADIOACTIVE RECYCLING AND DISPOSAL (AFRRAD) OFFICE LOCATED AT WRIGHT-PATTERSON AFB. The Installation Management Division is responsible for the day-to-day activities of accepting hazardous materials/wastes from DoD generators and for disposing of these items in an approved manner.

WPAFB is located in southwestern Ohio east of the city of Dayton. The base occupies 8,551 8,145 acres and is composed of two airfields (Wright and Patterson) separated by State Route 444 and the Consolidated Rail Corporation Tracks. Wright Field, designated as Area B, is situated in Montgomery and Greene counties. Patterson Field, composed of Area A, is located in Greene County except for 1.5 miles adjacent to the Mad River in Montgomery County. Clark County abuts the base at the northeast property line.

Area B encompasses approximately 2,840 acres and is bordered on the north by State Route 444 and Springfield Pike, on the east by Wright State University, on the south by Airway Road, and on the west by Harshman Road. Area B includes over 200 buildings (not including base housing). The western half of Area B was once used solely by the air runway system. Today, these runways are no longer in service. The National Museum of the U. S. Air Force is now located in this area. Building 479, the existing hazardous waste container storage facility, is located in a sparsely populated area near the Southern boundary of Area B.

NATURE OF OPERATIONS

Wright-Patterson Air Force Base (WPAFB) is one of the nation's most important military installations. The base is the headquarters for vast, worldwide logistics systems and is the foremost research and development center in the U.S. Air Force. More than 125 organizations representing a broad spectrum of Air Force and Department of Defense (DoD) activities are located at WPAFB and scattered among nine states. By many measures, the base is the largest, most diverse and organizationally complex in the Air Force and can be compared to a large industrial park or medium-size community.

WPAFB is the largest employer in the state at a single location and the largest employer among U.S. Air Force bases worldwide. Civilian workers comprise more than half of the work force.

Air Force Materiel Command (AFMC), one of nine major commands in the Air Force, has its headquarters at WPAFB. The mission of AFMC is to research, develop, test, deliver, and sustain every Air Force weapon system -- from the drawing board, through its operational life, to its final disposition.

The command's work force of military and civilian employees operates major product centers, a laboratory, test centers, and logistics centers throughout the United States. It is the Air Force's largest command in terms of civilian employees and funding.

The Air Force Research Laboratory (AFRL) at WPAFB is assigned to AFMC. AFRL consists of four directorates: Aerospace Systems, 711 Human Performance Wing, Materials and Manufacturing, Propulsion and Sensors.

Air Force Life Cycle Management Center (AFLCMC), headquartered at WPAFB, Ohio is responsible for the acquisition, research, development, test evaluation, and support of Air Force aeronautical systems and related equipment. It is the largest research and development center of AFMCLC.

Priorities under AFLCMC acquisition management include streamlining acquisition processes while strengthening strategic and conventional forces, expanding airlift capabilities, and modernizing and expanding the combat air forces.

OTHER Organizations generating hazardous waste at WPAFB include the following:

The 88th Air Base Wing Maintenance Unit generates waste oil.

Priorities under AFLCMC acquisition management include streamlining acquisition processes while strengthening strategic and conventional forces, expanding airlift capabilities, and modernizing and expanding the combat air forces.

Other organizations generating hazardous waste at WPAFB include the following:

The 88th Air Base Wing Maintenance Unit generates waste oil.

The Air Force Institute of Technology is a component of Air University that is responsible for the scientific, engineering, managerial, medical, and related professional education of Air Force officers. The research laboratories generate various laboratory chemical wastes.

The USAF Medical Center provides in-patient and out-patient medical service to local military personnel and their families. It also provides specialty care for personnel throughout the U.S. This center also provides emergency response care in the event of an emergency related to the base's hazardous waste storage facility, and generates various medical and laboratory chemical wastes.

The 445th Airlift Wing Reserves Unit conducts aircraft maintenance on aircraft and generates solvents and waste oil.

The National Museum of the U. S. Air Force displays items of current and historical significance in military aviation. The aircraft restoration and preservation and exhibits division generates solvents, paints, and thinners.

The AFRRAD office provides disposal and recycling services for all DoD branches and receives mixed waste from off-site DoD installations for storage only.

The point of contact for the hazardous waste management activities at Wright Patterson AFB is:

~~Gary Selby~~ EMILY ERDEI
88th CEG/CEI

B-2 Topographic Map [40 CFR 270.14 (b)(19)]

Figure B-1 is the United States Geological Survey 7.5-minute series map for the Fairborn, Ohio quadrangle, which encompasses WPAFB and shows topographic features in the region of Building 479.

Map 1, the Location and Site Plan includes contours sufficient to show surface water flow in the vicinity of and down gradient from Building 479. Map 1 also indicates the location of storm drainage ditches down gradient from Building 479.

B-3 General Requirements

B-3a(1) Land Uses

The land surrounding Building 479 is an Air Force Base. There are no residential areas within 1,000 feet of Building 479.

B-3a(2) Hazardous Waste Management Unit Facility Boundary

Building 479 is located more than 1,600 feet northwest of the nearest boundary of WPAFB (Map 2).

B-3a(3) Wind Rose

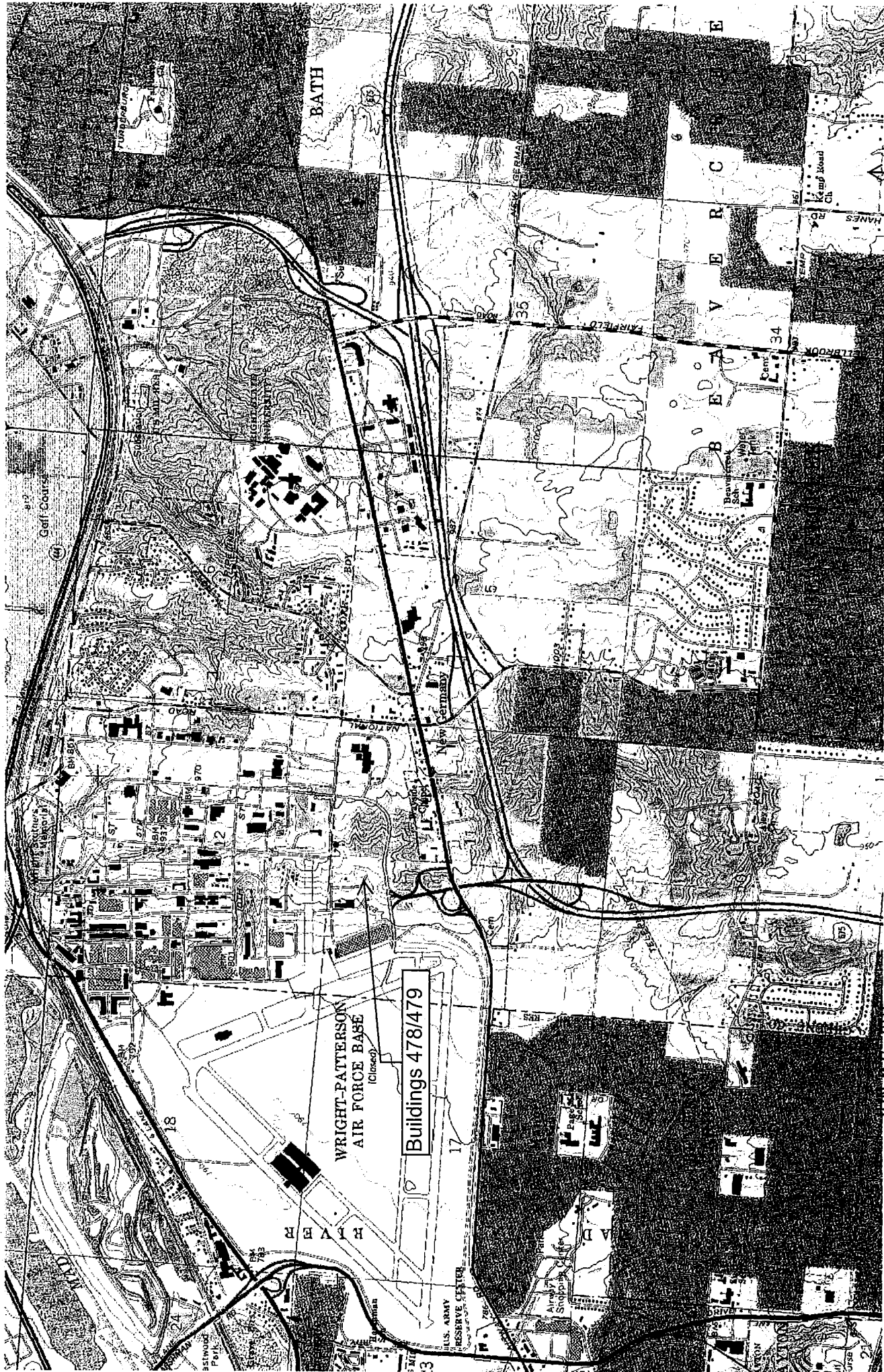
Figure B-2 illustrates the annual wind rose of meteorological data collected at WPAFB by the Weather Squadron.

B-3a(4) Access Control

Area B of WPAFB is enclosed by a 6-foot-high-metal chain-link fence topped with three strands of barbed wire. Access to the base is controlled by 88th Air Base Wing Security Forces Squadron, and only those with proper authorization are permitted to enter.

Access to this facility is controlled. The entrance to facility 479 is also enclosed by a

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Figure B-1. Site Location Map

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Map Not To Scale

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This wind rose shows the total percent of winds by speed group and direction based on true bearing.

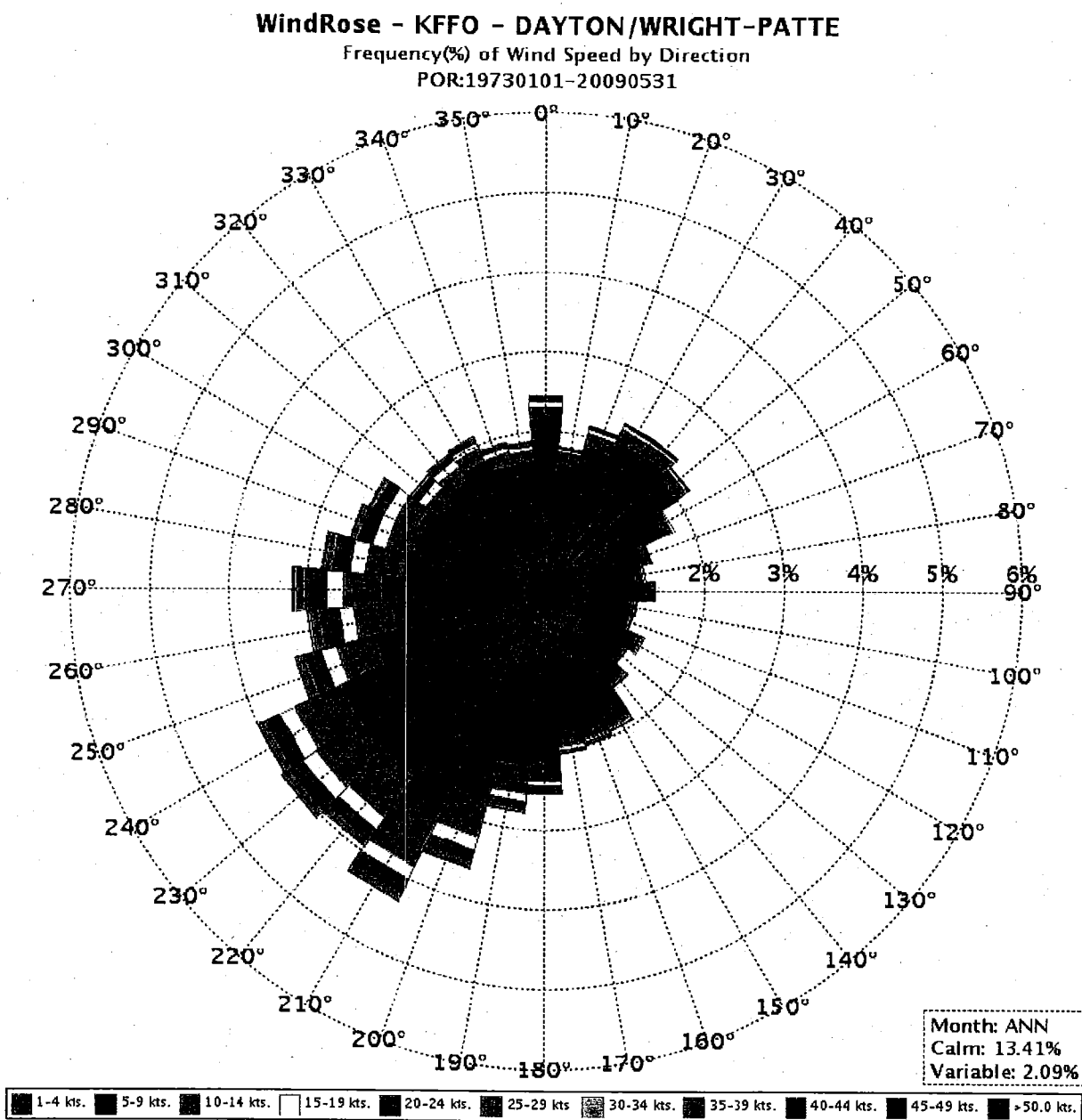


Figure B-2. Annual Wind Rose

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chain-link fence and barbed wire, and access is controlled. Gates to Building 479 are locked when not in use.

B-3a(5) Injection and Withdrawal Wells

There are no known injection or withdrawal wells within 1,000 feet of Buildings 478 or 479. The base water supply is taken from groundwater wells in areas A, B, and C A AND B of the base. There are ten active wells (see Map 3) at the base. All water supply wells are located in highly permeable glacial deposits and average approximately 60 feet in depth.

B-3a(6) Buildings, Treatment, Storage, Disposal Areas, and Other Structures

Building 478 is a one-story concrete block building 30 ft by 50 ft in dimension. There will be no storage of hazardous waste adjacent to or inside of Building 478.

Building 479 is a 50 ft by 85 ft one-story, four-sided structure with a concrete slab foundation. All drums and containers will be loaded and unloaded in the contained area within Building 479, through the access doors located at the east and west ends on the northern side of the building.

Building 477 is a 9 ft by 24 ft portable concrete building with two separate bays (east and west) that is used for waste consolidation activities and empty container storage only. Building 477 will not be used for any waste storage.

Building 475 is a one-story metal structure with a concrete slab foundation located north of the fenced-in area. It is used to store only non-RCRA waste generated in Area B. Constructed in 2009, it was needed in anticipation of waste increases due to Base Realignment and Closure (BRAC) activities beginning in 2010. The floor is coated with a chemical resistant paint and the building does have secondary containment.

The three buildings, 477, 478 and 479, are adjacent to each other and share a reinforced concrete pad. Building 479 will be operated as a hazardous waste container storage facility. Figure B-3 presents the site plan for these buildings.

B-3a(7) Recreation Areas

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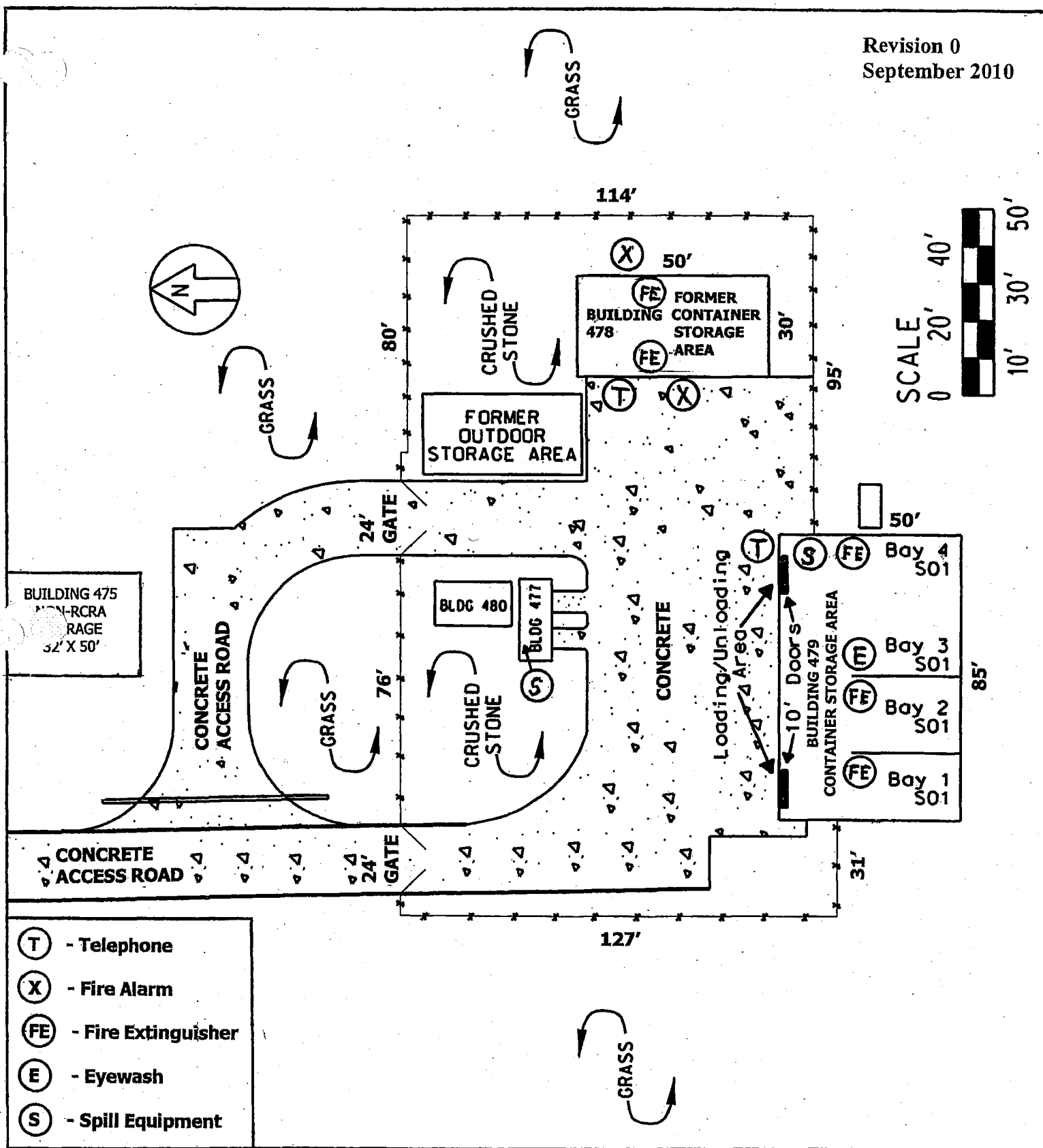


FIGURE B-3.
BUILDINGS 478/479 SITE PLAN

No recreation areas are located within 1,000 feet of Buildings 478 or 479.

B-3a(8) Runoff Control Systems

The floors of Building 479 have collection trenches and the loading and unloading area pad are sloped to collection trenches.

B-3a(9) Storm, Sanitary, and Process Sewers

The storm and sanitary sewer systems are shown in Maps 4 and 5. There are no process sewers located at Building 479.

B-3a(10) Loading and Unloading Areas

The loading and unloading area for Building 479 is located on its northern side. This area consists of two concrete pads (the north ends of Bays 1 and 4) located inside the building. One pad is 15 ft by 20 ft, and the other is 15 ft by 25 ft. Both pads are sloped to inside collection trenches.

B-3a(11) Fire Control Facilities

There are three fire stations on the base. Station 3 is located within 3,000 feet of the facility. ABC fire extinguishers are available in Building 479 as shown on Figure B-3 (3 for Building 479). Fire hydrants are located near the facilities as shown on Map 2.

Additionally, Building 479 has an automatic fire suppression system. The fire suppression system for Building 479 was designed per the requirements of NFPA 30, "Flammable and Combustible Liquids Code." The fire suppression media will be a foam solution consisting of 3% alcohol foam concentrate and 97% water. The system has a supply density of 0.3 gpm per square foot with enough capacity to provide a 15-minute foam supply over a 2,000-square-foot area.

The foam system is located in Building 478 in an equipment room with 2-hour fire-rated walls; access to the room is from outside the building only. The fire-suppression system is an air-pressurized, dry pipe system. When a sprinkler head opens, air pressure is released, causing the dry pipe valve to open and fill the sprinkler piping system. The foam solution is then dispersed through the open sprinkler head(s) to Buildings 478 and 479. Standard sprinkler heads are used and are located just below each building's roof structure with a maximum spacing of 100 square feet per

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head. The sprinkler heads will activate at 165° F. Water flow will activate an audible alarm bell and send a signal to the building's fire alarm panel.

A fire department connection to the foam system and a fire hydrant are installed at the intersection of 13th Street and the access road to the building. Appendix B-1 provides specifications on the fire-suppression system.

B-3a(12) Surface Waters

The base is primarily drained by the Mad River and its tributaries, which encompass a total area of 635 square miles. Drainage of the base is accomplished by overland flow to small streams such as Mudd Run, Hebble, or Trout Creeks. Streams run in two open culverts adjacent to Building 479 (113 and 205 feet from the area). All surface drainage associated with Building 479 is handled through WPAFB's existing NPDES permit.

B-3a(13) Flood Control/Drainage Barriers

Drainage from the area around Building 479 flows westward and terminates at the Mad River. None of the facilities are located in the 100-year floodplain. Building 479 is completely enclosed, preventing drainage into the facility.

B-4 Location Information [40 CFR 270.14(b)(11)]

B-4a Seismic Considerations [40 CFR 270.14(b)(11)(i) and (ii), 264.18(a) and 264 Appendix VI]

Building 479 is not located within 200 feet of a fault that has had displacement in Holocene time.

B-4b Floodplain Standard [40 CFR 270.14(b)(11)(iii) and 264.18(b)]

Building 479 is not within the 100-year floodplain (see Map 6).

B-5 Traffic Information

Access to WPAFB is shown in Map 2 - Base Map. Building 479 are located inside the fenced perimeter of the Air Force Base. This area is surrounded by 6-foot-high metal chain-link

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fence with gates that are locked during non-duty hours. Contractors will remove hazardous waste as necessary from the storage facilities using 24-foot closed vans and 40-foot trailers.

Wastes are shipped off base for disposal through licensed, commercial hazardous waste transporters. All wastes are packaged and labeled according to DOT specifications. All arrangements for shipment and the actual shipment of hazardous wastes from Area A to Area B of the base are coordinated through The Asset INSTALLATION Management Division.

B-5a Traffic Pattern [40 CFR 270.14(b)(10)]

Transportation of waste materials is permitted only along pre-designated routes. The prescribed route to and from the storage facility (Building 479) prevents the waste shipments from passing base housing and the base hospital.

All waste shipments from Area A destined for Building 479 in Area B must exit through Gate 15A, then south on I-675 and enter Area B through Gate 22B. Once through the gate, vehicles take a right turn on Loop Road, a left on 13th Street, and a left onto the access road leading to Buildings 478 and 479. The primary routes inbound and outbound for transportation of waste shipments to and from Buildings 479 are shown on Map 7.

B-5b Traffic Control

Every effort is made to minimize the risk of transportation accidents at WPAFB. Hazardous wastes are transported off base for disposal only by reputable permitted commercial hazardous waste transporters. Wastes are packaged, labeled, and transported according to all applicable U. S. DOT Regulations. Transportation of hazardous waste within the base is allowed along pre-designated routes only.

Traffic regulations within WPAFB are enforced by the 88th Security Forces Squadron. Yield signs or stop signs are positioned at all intersections along the pre-designated route to control the flow of traffic. Roads along the pre-designated route are designed, constructed, and maintained to safely handle all waste shipments.

Traffic accident information for the hazardous waste transportation routes identified is compiled by the Reports and Analysis Section of WPAFB's 88th Security Forces Squadron.

Whenever possible, incoming and outgoing shipments from Building 479 will be scheduled to avoid high-accident time periods.

B-5c Access Road Surfacing

All roads are constructed of either asphalt or 8-inch concrete overlaying an 8-inch base of compacted aggregate.

B-5d Load-Bearing Capacity

The gross loaded weight of the largest shipment of waste is 60,000 to 80,000 pounds. The base roads are designed for loads of 18,000 pounds per single axle and 32,000 pounds per dual axle, thereby being able to withstand this type of load.

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APPENDIX B-1

**FIRE SUPPRESSION SPECIFICATIONS
BUILDINGS 478/479**

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SECTION C

WASTE CHARACTERISTICS

This section describes the chemical and physical nature of the hazardous wastes stored at Wright-Patterson AFB (Building 479) and the Waste Analysis Plan for sampling, testing and evaluating the wastes to assure that sufficient information is available for the safe handling and storage of the waste. The information submitted is in accordance with the requirements of OAC 3745-50-44(A)(2), 3745-50-44(A)(3), and 3745-54-13(A).

Due to the nature of operations at WPAFB the Installation Management Division may be requested to accept any listed or characteristic hazardous wastes (except K-wastes).

C-1 Chemical and Physical Analysis [270-14(b)(2), 264.13(a)]

Wastes stored at Building 479 are generated by research labs and industrial shops at WPAFB AND BY OFF-SITE DOD INSTALLATIONS. WASTE RECEIVED FROM OFF-SITE GENERATORS IS MIXED WASTE CONSISTING OF RAGS AND WIPES CONTAMINATED WITH F005 SOLVENTS AND TRITIUM. THIS WASTE IS GENERATED FROM THE MAINTENANCE OF NUCLEAR WEAPON SYSTEMS. Table C-1 lists examples of waste streams ~~generated and~~ stored on a regular basis at WPAFB. While the quantities and composition of wastes change, all wastes accepted for storage in Building 479 are listed in Appendix C-1.

All waste stored at Building 479 are either solid, liquid, sludges, or gases and compressed gas cylinders, and are handled according to their hazard designations based upon known characteristics of the waste such as ignitability, reactivity, corrosivity, or toxicity characteristic. For listed wastes, the hazard designation is based upon the hazard codes provided in OAC 3745-51-31 through 33.

A description of each waste and the associated hazard characteristic is provided in Appendix C-1. Physical and chemical characteristics for all wastes permitted for storage at WPAFB are contained in Appendix C-2.

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**TABLE C-1. EXAMPLES OF WASTE STREAMS GENERATED AND
STORED AT WPAFB**

Waste	Code
Waste paint related material	F005, D001, F002, F003
Waste halogenated solvents, mixed	F002, F001
Mercury, metallic spill residue include mercury contaminated manometers	U151, D009
Sulfuric acid	D002
Waste paint	D001, F005
Waste solvent mix	D001, F002, F003, F005, F001
Diesel fuel spill debris	D001
Lead paint abatement waste	D008
Rubber cement	D001, D005
Contaminated oil paint products	D001, F005, F003, F002, D008
Trichlorofluoromethane	D002
Potassium	D002
Paint thinner	F003, F005, D001
Acetone	F003, D001
Reactives	D003
Compressed gas cylinders	D001, D002, D003
MIXED WASTE F005 SOLVENTS AND TRITIUM	F005

C-1a Containerized Waste [270-15(b)(1)]

All waste stored at WPAFB is stored in containers. All containers are managed as if they contain free liquids. All wastes, regardless of physical state, are stored in an area that is equipped with a secondary containment system, therefore, no documentation or information is provided to show that the wastes do not contain free liquids.

C-1b Waste in Tank Systems [264.191(b)(2), 264.192(a)(2)]

The facility does not utilize storage tanks.

C-1c Waste Piles [264.250(c)(1) and (4)]

No waste piles will be maintained at this facility.

C-1d Surface Impoundments [264.314(c)]

No surface impoundments will be maintained at this facility.

C-1e Incinerators [270.62(b)(2)(i)]

No wastes will be incinerated at this facility.

C-1f Landfills [270.20(b)(4), 264.271(a)(1) and (2), 264.276, Part 261, Appendix VIII]

No landfills will be maintained at this facility.

C-1g Land Treatment [270.23(d)]

No land treatment units will exist at this facility.

C-1h Additional Requirements for Land Storage, Treatment and Disposal Facilities

Since this facility does not utilize hazardous waste tanks, surface impoundments, incinerators, waste piles, land treatment units or landfills, no additional procedures need to be described.

C-2 Waste Analysis Plan [270.14(b)(3), 264.13(b) and (c), 268.7]

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This Waste Analysis Plan (WAP) describes the necessary sampling methodologies, analytical techniques and overall procedures used to ensure the proper storage of all hazardous waste at Building 479. Specifically, this plan details the following:

- Pre-acceptance procedures to determine the acceptability of any incoming waste
- Sampling and analysis procedures - including sampling methods and equipment, and the analytical test methods used
- Quality control for waste shipments
- Rejection criteria for waste shipments

Building 479 may receive hazardous wastes from any activity on WPAFB AND MAY RECEIVE LOW-LEVEL MIXED WASTE FROM OTHER DOD INSTALLATIONS. The Installation Management Division will only accept hazardous wastes for which it is permitted under the WPAFB Hazardous Waste Facility Operating Permit. The Installation Management Division will inform base generating activities of the hazardous wastes it is permitted to receive and store.

C-2a Parameters and Rationale [264.13(b)(1)]

All solid waste that is generated at WPAFB is evaluated to determine if the waste is a hazardous waste and therefore subject to the requirements of 40 CFR 264.13 and OAC 3745-54. This determination may be conducted by either using the waste generator's knowledge of the hazardous characteristics of waste and the materials or processes used, or by analytical testing as described in 40 CFR 261 and OAC 3745-51. For the vast majority of waste streams at WPAFB, generator knowledge of the waste will be used to determine whether or not waste is restricted from land disposal. The data to support this determination will be retained on site in the generator's files in accordance with 40 CFR 268 and OAC 3745-270. MIXED WASTE FROM OFF-SITE DOD INSTALLATIONS IS EVALUATED USING GENERATOR KNOWLEDGE.

- a. If the waste stream is determined to not be a hazardous waste and is in a solid form or state, the waste may be disposed of via the base's solid waste contract.

SOUTHWEST DISTRICT

b. If the generator determines that their waste stream is indeed a hazardous waste subject to regulation and is not exempt from the regulation, it must be turned in to the Installation Management Division.

1. All hazardous waste turned in to the Installation Management Division must be properly characterized, packaged, marked and labeled. Generators must assure that correct EPA Hazardous Waste numbers are applied and that they have sufficient data to validate their waste determination.

2. The generating activity must submit with their waste, a completed Hazardous Waste Pickup Form (WPAFB Form 1438, Figure C-1). If the waste stream is an off-specification or expired shelf-life term, the generator shall also submit the applicable Materials Safety Data Sheet (MSDS). THIS FORM DOES NOT APPLY TO MIXED WASTE RECEIVED FROM OFF-SITE INSTALLATIONS.

3. Generating activities may also produce a non-RCRA liquid waste. These wastes are also turned in to the Installation Management Division along with a MSDS or other data to validate their waste determination.

c. After the hazardous waste pickup form has been evaluated by the Installation Management Division field compliance liaison it is submitted to the DLA-DS hazardous waste contractor who will contact the generator to arrange pick up of the waste. Waste generated in Area A is transported to Facility 30247. Waste generated in Area B is transported to 20479. Facility 30247 is a 90-day accumulation site and facility 20479 is a one-year accumulation site.

d. The DLA-DS contractor will evaluate the pickup form with the waste number and type of containers, quantity (pounds and/or gallons) and physical state. In the event the contractor and generator would disagree on classification or other information provided on the pickup form, the waste will not be removed and the field compliance manager shall be notified to resolve the discrepancy.

HAZARDOUS WASTE PICKUP			
JOB ORDER NUMBER		CONTAINER TRACKING NUMBER	
GENERAL INFORMATION			
NAME		OFFICE SYMBOL	
BUILDING NUMBER	EXTENSION	IAP PERMIT NUMBER	BILLING ORGANIZATION
UEC COORDINATION		DATE	TIME
WASTE CONTAINER INFORMATION			
COMMON (Generic) NAME			
CONSTITUENTS	%	CONSTITUENTS	%
EPA WASTE CODES			
CHECK ONE <input type="checkbox"/> SPENT <input type="checkbox"/> UNUSED EXCESS <input type="checkbox"/> EXPIRED <input type="checkbox"/> SPILL RESIDUE HAZMAT CELL CONTROL NUMBER			
PROCESS GENERATING WASTE			
CONTAINER TYPE	CONTAINER SIZE	NUMBER OF CONTAINERS	
PHYSICAL STATE (CHECK ONE) <input type="checkbox"/> LIQUID <input type="checkbox"/> SOLID <input type="checkbox"/> GAS			
pH		FLASHPOINT	
CONTRACTOR INFORMATION			
WEIGHT		DESTINATION	
DISPOSAL ROUTING CODE			
<input type="checkbox"/> B (Bulk) <input type="checkbox"/> L (Labpack) <input type="checkbox"/> D (Disposal)			
CLIN	U/C	T/C	
CERTIFICATION			
SITE MANAGER SIGNATURE		WASTE CONTRACTOR REPRESENTATIVE SIGNATURE	
DATE	DATE		DATE

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WPAFB IMT 1438, 20000426 (IMT-V1)

PREVIOUS EDITION IS OBSOLETE

Figure C-1. Hazardous Waste Pickup Form (WPAFB Form 1438)

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1. A further step in the evaluation procedure involves the waste analysis information that is provided with the submittal. Analytical data must include all of the information required to treat, store or dispose of a waste in accordance with 40 CFR Parts 265.13 and 268. The following data must be included with the accompanying documentation before the waste will be accepted by the contractor:

(a) Physical state or mixed states as applicable,

(b) Pertinent physical properties such as pH or flash point for mixed wastes that are not identified in common reference material. Equivalent notations may be used, e.g., pH <2,

(c) Noun name as catalogued in the Federal Supply System and the National Stock Number (NSN) or if not catalogued in the Federal Supply System, the chemical names of the hazardous components,

(d) Chemical names of hazardous contaminants and the noun name of non-hazardous components,

(e) Amounts of hazardous and nonhazardous ingredients based on user's knowledge or testing of the items, expressed in a range of content by percentage or parts per million (ppm) or its equivalent, milligrams per liter (mg/l), as appropriate.

2. This information will allow the DRMS DLA-DS contractor to utilize standard references to determine the chemical characteristics for proper storage and to identify applicable land disposal restrictions in 40 CFR Part 268.

3. All shipments of waste in unopened, manufacturer's containers with their original labeling including paints, proprietary chemical

compositions and reagent grade chemicals are visually inspected by the ~~DRMS~~ DLA-DS contractor.

If there is some doubt concerning the composition of such waste it will remain in the custody of the generator until its composition is verified. When these wastes are turned in for disposal, a control number is required from the HAZMAT Cell to verify that all avenues were explored to redistribute the excess material.

4. Whenever a hazardous waste is to be shipped off-site from the base, the ~~DRMS~~ DLA-DS contractor must notify the receiving TSD facility of the applicable treatment standards. The notification must include:

- (a) The EPA Hazardous Waste Number
- (b) The applicable treatment standard
- (c) The Uniform Hazardous Waste Manifest number, and
- (d) The waste analysis data and/or statement of knowledge.

e. If the generator of a solid waste or a hazardous waste is unsure of the chemical characteristics of their waste, they shall request a sample analysis to be accomplished. This analysis may be required to identify it as a hazardous waste or to further classify its hazards if there is incomplete data.

1. Analysis can be accomplished based on:

- (a) Qualitative determinations from previous experience with the same waste,
- (b) Knowledge of the generation process, or
- (c) Analytical measurements.

2. Where the analysis is based on (a) or (b) above, intrinsic properties such as color, odor, specific gravity, flash point, flammability, physical and chemical sensitivities and/or other properties or characteristics

if not already known, can be derived from published or documented data references such as:

(a) The Merck Index, 11th Edition, Merck and Co., Inc. Rahway, NJ

(b) Chemistry of Hazardous Materials, E. Meyer, 1997, Prentice-Hall, Inc., Englewood Cliffs, NJ

(c) Pocket Guide to Chemical Hazards, DHEW (NIOSH) Publication No. 78-210, 2005, U.S. Government Printing Office (GP) Stock #017-03343-4

(d) Hazardous Materials Emergency Response Guidebook, DOT Publications P5800.3, 2008, U.S. Government Printing Office

(e) Fire Protection Guide on Hazardous Materials, 7th Edition, National Fire Protection Association, Batterymarch Park, Quincy, MA

(f) Dangerous Properties of Industrial Materials, Sax, Van Nostrand Reinhold Co., New York, NY

C-2b Test Methods [264.13(b)(2)]

All of the physical and chemical analyses of the waste will be conducted following ASTM, EPA, or EPA-sponsored Methods. Table C-2 lists the test methods that will be used.

C-2c Sampling Methods [264.13(b)(3), Part 261, Appendix I]

The methods and equipment used for sampling wastes for analytical measurement will vary with the form and consistency of the waste material. Representative samples shall be collected using

the sampling protocols listed below for sampling wastes with properties similar to the indicated materials. Detailed guidance of the number of samples to be taken and the type of sample containers is presented in "Test Methods for the Evaluation of Solid Waste, Physical/Chemical Methods," EPA Publication SW-846. Table C-2 lists the test methods that will be used. Alternatively, a representative sample can be obtained by any other method capable of yielding a representative sample within the meaning of 40 CFR Part 260. The following sampling protocols are specified by the U.S. EPA:

**TABLE C-2. WRIGHT-PATTERSON AFB'S WASTE IDENTIFICATION
TESTING METHODS**

Test	Test Method	Reference	Rationale
Flashpoint	Pensky-Martens Closed-Cup or Seta-flash Closed-Cup	Method 1010* or 1020*	This method analyzes ignitability of a waste, which dictates handling procedures, storage areas, and disposal criteria.
pH	Electrometric measurement	Method 9040*	This method quantifies hydrogen in concentration of a waste, which is related to corrosivity. From this analysis proper waste containers and storage areas can be selected. Also, this analysis confirms hazardous waste determinations, determines compatibility with other wastes, and establishes disposal criteria.
Reactivity	RCRA definition	---	This method verifies hazardous waste determinations, applicability of California list land disposal restrictions, handling and storage criteria.
Specific gravity	Specific gravity	ASTM D941	This method of analysis is used to provide information that can be important during waste handling operations.
TCLP (metals)	TCLP extraction	Method 6010*/7000*	This method verifies hazardous waste determinations and establishes applicable land disposal restrictions. This method is an analysis for toxic metals as defined by 40 CFR 261.24 and OAC 3745-51-24. Toxic metals may be found in combination with each other and/or with other hazardous organic constituents.
TCLP (organics)	TCLP extraction	Method 8240*/8270*	This method verifies hazardous waste determinations based on the presence of toxic organics as defined by 40 CFR 261.24.
Volatile organics	GCMS	Method 8240*	This method verifies hazardous waste determinations based on the presence of volatile organics.
Semivolatile organics	GCMS	Method 8240	This method verifies hazardous waste determinations based on the presence of volatile organics.
Sulfide	Titration	Method 7342*	This method verifies hazardous waste determinations based on the presence of sulfide. Sulfide must be measured at the ppm

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TABLE C-2 (continued)

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Test	Test Method	Reference	Rationale
Cyanide	Colorimetric	Method 7332*	level because there are possible toxic effects to be considered during handling, storage, and/or incineration. This method verifies hazardous waste determinations based on the presence of cyanide. Cyanide must be measured at the ppm level because there are possible toxic effects to be considered during handling, storage, and/or incineration.
Organochlorine pesticides, herbicides, and dioxins	GC	Methods 8080*, 8150*	This method verifies hazardous waste determinations based on the presence of toxic pesticides. These pesticides are defined as toxic by 40 CFR 261.24 and OAC 3745-51-24.
Suspended Solids	Physical Evaluation	ASTM D311-30	This method determines type and concentration of solids which are important to determine incineration and appropriate land disposal restriction treatment technology. Significant changes in solid concentrations may reflect a change in chemical composition.
Ash content	Physical Evaluation	ASTM D482-80	This method evaluates suitability of waste for incineration and to determine potential slag formation and to assess particulate loading. Changes in ash content may reflect significant changes in the inorganic constituents of the waste.
Higher heating value	Physical Evaluation	ASTM D1086-67	This method determines the suitability of a waste for incineration, heat load for proper operation, and allows for the determination of auxiliary fuel usage requirements.

* EPA SW-846

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- a. Extremely viscous liquid - ASTM Standard D140-70
- b. Crushed or powdered material - ASTM Standard D346-75
- c. Soil or rock-like material - ASTM Standard D420-69
- d. Soil-like material - ASTM Standard D1452-65
- e. Fly ash-like material - ASTM Standard D2234-76
- f. Containerized liquid wastes - "Coliwassa," described in EPA Publication SW-846 sampler," described in SW-846.
- g. Liquid waste in pits, ponds, lagoons, and similar reservoirs - "Pond Sampler", described in SW-846.

C-2d Frequency of Analysis [264.13(b)(4)]

Waste analyses will be evaluated annually for all identified waste streams that are generated at WPAFB or whenever the process or constituents change. Waste Profile Sheets are completed by the DLA-DS contractor. Copies are maintained by the Installation Management Division.

C-2e Additional Requirements for Waste Generated in Area A AND OFF-SITE [263.13(c)]

Due to the layout of the base, waste generated in Area A and received at Building 479 is considered to be generated off site. Each waste submitted to Building 479 will be accompanied by a Hazardous Waste Pickup Form (Figure C-1) and, when appropriate, a Manifest and a Land Ban Certification form. MIXED WASTE RECEIVED FROM OFF-SITE WILL BE ACCOMPANIED BY A MANIFEST.

Each load of waste arriving at Building 479 has been inspected and analyzed, or characterized based on personal knowledge of the generator, before being accepted for storage as described in Section C-2a.

If at any time during the receiving process a waste turn-in is determined to be misidentified or unidentified, it will not be accepted for storage in 479, and will remain in the custody of the generator until the discrepancy is rectified. Since the wastes stored at Building 479 are generated by research labs and industrial shops at WPAFB it will be possible to resolve any discrepancies prior to acceptance. IF MIXED WASTE RECEIVED AT BUILDING 479 IS MISIDENTIFIED OR UNIDENTIFIED, AFRRAD PERSONNEL WILL CONTACT THE GENERATOR, AND IF NECESSARY, CONDUCT ON-SITE SAMPLING AND ANALYSIS TO ACQUIRE SUFFICIENT KNOWLEDGE TO PROPERLY IDENTIFY THE WASTE.

C-2f Additional Requirements for Facilities Handling Ignitable, Reactive or

Incompatible Waste [264.13(b)(6), 264.17]

No additional testing of ignitable, reactive, or incompatible hazardous waste is necessary because of the requirements stated in Section C-2 a through e. These requirements provide the necessary information to properly store ignitable and reactive wastes, and prevent the mixing of incompatible wastes. Precautions to prevent the accidental ignition or reaction of ignitable, reactive, or incompatible wastes are described in Section F-5 of this permit application. Additionally, Appendix C-3 presents a summary of potentially incompatible waste materials/waste components and the adverse consequences that could result from mixing one group with another.

**C-3 Waste Analysis Requirements Pertaining to Land Disposal Restrictions
[270.14(b)(3), 264.13, 268.7, 268.8, 268.30, 268.31, 268.32, 268.33,
268.34, 268.41, 268.42, 268.43, 268.50, Part 268 Appendix I]**

Using the information provided during pre-acceptance, including Waste Profile Sheets and Hazardous Pickup Forms, WPAFB will consider all accepted hazardous waste containing substances banned from land disposal to exceed the treatment standards for acceptable land disposal, unless analytical data indicate otherwise. WPAFB will ensure that all waste sent off-site for treatment or disposal will be accompanied by written notification (pursuant to OAC 3745-59-07) to the receiving treatment or disposal facility that the waste does not currently meet the appropriate treatment standards. The notification will include the following:

- EPA hazardous waste code
- Manifest number
- Waste analysis data or if previously submitted, incorporate the data by reference
- The applicable treatment standards

WPAFB maintains for at least five years, documentation associated with notification and certification of land disposal restricted waste. These records are maintained at the Asset INSTALLATION Management Division.

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APPENDIX C-1

**HAZARDOUS WASTE POTENTIALLY STORED
POTENTIALLY STORED AT BUILDING 479**

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HAZARDOUS WASTE THAT WRIGHT-PATTERSON CURRENTLY STORES

Chemical Name	EPA Hazardous Waste Number	Hazard	Estimated Annual Quantity (in pounds)
Ignitables	D001	Ignitable	30,000
Corrosives	D002	Corrosive	22,000
Reactives	D003	Reactive	10,000
Arsenic	D004	TCLP	1
Barium	D005	TCLP	1
Cadmium	D006	TCLP	1
Chromium	D007	TCLP	1
Lead	D008	TCLP	25,000
Mercury	D009	TCLP	1
Selenium	D010	TCLP	1
Silver	D011	TCLP	1
Endrin	D012	TCLP	1
Lindane	D013	TCLP	1
Methoxychlor	D014	TCLP	1
Toxaphene	D015	TCLP	1
2,4-D	D016	TCLP	1
2,4,5-TP Silvex	D017	TCLP	1
Benzene	D018	TCLP	1
Carbon tetrachloride	D019	TCLP	1
Chlordane	D020	TCLP	1
Chlorobenzene	D021	TCLP	1
Chloroform	D022	TCLP	1
O-Cresol	D023	TCLP	1
M-Cresol	D024	TCLP	1
P-Cresol	D025	TCLP	1
Cresol	D026	TCLP	1
1,4-Dichlorobenzene	D027	TCLP	1

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HAZARDOUS WASTE TABLE (continued)

Chemical Name	EPA Hazardous Waste Number	Hazard	Estimated Annual Quantity (in pounds)
1,2-Dichloroethane	D028	TCLP	1
1,1-Dichloroethylene	D029	TCLP	1
2,4-Dinitrotoluene	D030	TCLP	1
Heptachlor	D031	TCLP	1
Hexachlorobenzene	D032	TCLP	1
Hexachloro-1,3-Butadiene	D033	TCLP	1
Hexachloroethane	D034	TCLP	1
Methyl Ethyl Ketone	D035	TCLP	1
Nitrobenzene	D036	TCLP	1
Pentachlorophenol	D037	TCLP	1
Pyridine	D038	TCLP	1
Tetrachloroethylene	D039	TCLP	1
Trichloroethylene	D040	TCLP	1
2,4,5-Trichlorophenol	D041	TCLP	1
2,4,6-Trichlorophenol	D042	TCLP	1
Vinyl Chloride	D043	TCLP	1
Spent Halogenated Solvents	F001	Toxic	1,600
Spent Halogenated Solvents	F002	Toxic	9,000
Spent Non-Halogenated Solvents	F003	Toxic	16,000
Spent Non-Halogenated Solvents	F004	Toxic	90
Spent Non-Halogenated Solvents	F005	Toxic	16,000
Wastewater Treatment Sludges from Electroplating Operations	F006	Toxic	1
Spent Cyanides	F007	Reactive, Toxic	1,520
Spent Plating Bath Residues	F008	Toxic	1,000
Spent Stripping and Bath Solutions	F009		4,000
Quenching Bath Sludge from Oil Baths from Metal Heat Treating Operations	F010	Toxic	1

(continued)

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HAZARDOUS WASTE TABLE (continued)

Chemical Name	EPA Hazardous Waste Number	Hazard	Estimated Annual Quantity (in pounds)
Spent Cyanide Solutions	F011	Toxic	1
Quenching Wastewater Treatment Sludges	F012	Toxic	1
Wastewater Treatment Sludges	F019	Toxic	1
Wastes from the Production and Manufacturing Use of tri-, or tetrachlorophenol	F020	Toxic	1
Wastes from the Production and Manufacturing Use of pentachlorophenol	F021	Toxic	1
Wastes from the Manufacturing Use of tetra, penta, or hexachloro-benzenes	F022	Toxic	1
Wastes from the Production of Materials on Equipment previously used for the Production and Manufacturing use of tri-, and tetrachlorophenols	F023	Toxic	1
Wastes from the Production of chlorinated aliphatic hydrocarbons	F024	Toxic	1
Wastes from the Production of Materials on Equipment previously used for the Production and Manufacturing of tetra-, penta-, or hexachlorobenzenes	F026	Toxic	1
Discarded Unused Formulations containing tri-, tetra, or pentachlorophenols	F027	Toxic	1
Residues Resulting from Incineration or Thermal Treatment of Soil Contaminated with EPA Hazardous Wastes Nos. F020, F021, F022, F023, F026, and F027	F028	Toxic	1
Leachate	F039	Toxic	1
3-(Alpha-Acetonyl Benzene) 4 Hydroxycoumayl	P001	Corrosive, Toxic	25
1- Acetyl-2-thiourea	P002	Toxic	1
Acrolein	P003	Toxic	1

(continued)

HAZARDOUS WASTE TABLE (continued)

Chemical Name	EPA Hazardous Waste Number	Hazard	Estimated Annual Quantity (in pounds)
Aldrin	P004	Toxic	1
Allyl Alcohol	P005	Toxic	1
Aluminum Phosphide	P006	Toxic	1
5-(Aminomethyl)-3-isoxazoleol	P007	Toxic	1
4-a Aminopyridine	P008	Toxic	1
Ammonium Picrate	P009	Reactive	1
Arsenic Acid	P010	Toxic	1
Arsenic Pentoxide	P011	Toxic	1
Arsenic Trioxide	P012	Toxic	1
Barium Cyanide	P013	Toxic	1
Triphenol	P014	Toxic	1
Beryllium Dust	P015	Toxic	1
Bis(chloromethyl) Ether	P016	Toxic	1
Bromoacetone	P017	Toxic	1
Brucine	P018	Toxic	1
Dinoseb	P020	Toxic	1
Calcium Cyanide	P021	Toxic	1
Carbon Disulfide	P022	Toxic	35
Chloroacetaldehyde	P023	Toxic	1
p-Chloroaniline	P024	Toxic	1
Thiourea, (2-chlorophenyl)-	P026	Toxic	1
3-Chloropropionitrile	P027	Toxic	3
Benzyl Chloride	P028	Toxic	1
Copper Cyanides	P029	Toxic	100
Cyanides	P030	Toxic	1,500
Cyanogen	P031	Toxic	1
Chlorine Cyanide	P033	Toxic	1

(continued)

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HAZARDOUS WASTE TABLE (continued)

Chemical Name	EPA Hazardous Waste Number	Hazard	Estimated Annual Quantity (in pounds)
4,6-Dinitro-O-cyclohexylphenol	P034	Toxic	1
Dichlorophenylarsine	P036	Toxic	1
Dieldrin	P037	Toxic	1
Diethylarsine	P038	Toxic	1
Disulfoton	P039	Toxic	1
O,O-Diethyl O-pyrazinyl Phosphorothioate	P040	Toxic	1
Diethyl-p-nitrophenyl Phosphate	P041	Toxic	1
Epinephrine	P042	Toxic	1
Diisopropyl Fluorophosphate	P043	Toxic	1
Dinethoate	P044	Toxic	1
Thiofanox	P045	Toxic	1
alpha, alpha-Dimethylphethylamine	P046	Toxic	1
4,6-Dinitro-O-cresol and Salts	P047	Toxic	1
2,4-Dinitrophenol	P048	Toxic	1
2,4-Dithiobiuret	P049	Toxic	1
Endosulfan	P050	Toxic	1
Endrin	P051	Toxic	1
Aziridine	P054	Toxic	1
Fluorine	P056	Toxic	1
Fluoroacetamide	P057	Toxic	1
Acetic Acid, fluoro-, Sodium Salt	P058	Toxic	1
Heptachlor	P059	Toxic	1
Hexachlorohexahydro-exo,exo-dimethanonaphthalene	P060	Toxic	1
Hexaethyl Tetraphosphate	P062	Toxic	1
Hydrocyanic Acid	P063	Toxic	1
Methyl Isocyanate	P064	Toxic	1

(continued)

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HAZARDOUS WASTE TABLE (continued)

Chemical Name	EPA Hazardous Waste Number	Hazard	Estimated Annual Quantity (in pounds)
Mercury Fulminate	P065	Reactive, Toxic	1
Methomyl	P066	Toxic	1
2-Methylaziridine	P067	Toxic	1
Methyl Hydrazine	P068	Toxic	1
2-Methylacetonitrile	P069	Toxic	1
Aldicarb	P070	Toxic	1
Methyl Parathion	P071	Toxic	1
THIOUREA, 1-NAPHTHALENYL-	P072	TOXIC	1
Nickel Carbonyl	P073	Toxic	1
Nickel Cyanide	P074	Toxic	1
Nicotine and Salts	P075	Toxic	1
Nitric Oxide	P076	Toxic	1
P-Nitroaniline	P077	Toxic	1
Nitrogen Dioxide	P078	Toxic	1
Nitroglycerine	P081	Toxic/Reactive	1
Dimethylnitrosamine	P082	Toxic	1
N-Nirosomethylvinylamine	P084	Toxic	1
Diphosphoramidate, Octamethyl	P085	Toxic	1
Osmium Oxide	P087	Toxic	1
Endothall	P088	Toxic	1
Parthion	P089	Toxic	1
Mercury, (acetato-O) phenyl-	P092	Toxic	1
N-Phenylthiourea	P093	Toxic	1
Phorate	P094	Toxic	1
Phosgene	P095	Toxic	1
Phosphine	P096	Toxic	1
Famphur	P097	Toxic	1

(continued)

HAZARDOUS WASTE TABLE (continued)

Chemical Name	EPA Hazardous Waste Number	Hazard	Estimated Annual Quantity (in pounds)
Pottassium Cyanide	P098	Toxic	30
Pottassium Silver Cyanide	P099	Toxic	1
Ethyl Cyanide	P101	Toxic	1
Propargyl Alcohol	P102	Toxic	2
Selenourea	P103	Toxic	1
Silver Cyanide	P104	Toxic	1
Sodium Azide	P105	Toxic	5
Sodium Cyanide	P106	Toxic	500
Strontium Sulfide	P107	Toxic	1
Strychnine and Salts	P108	Toxic	1
Tetraethyldithiopyrophosphate	P109	Toxic	1
Tetraethyl Lead	P110	Toxic	1
Tetraethyl Pyrophosphate	P111	Toxic	1
Tetranitromethane	P112	Toxic	1
Thallic Oxide	P113	Toxic	1
Thallium (I) Selenite	P114	Toxic	1
Thallium (I) Sulfate	P115	Toxic	1
Thiosemicarbazide	P116	Toxic	1
Trichloromethanethiol	P118	Toxic	1
Ammonium Vanadate	P119	Toxic	1
Vanadium Pentoxide	P120	Toxic	1
Zinc Cyanide	P121	Toxic	1
ZINC PHOSPHIDE	P122	REACTIVE, TOXIC	1
TOXAPHENE	P123	TOXIC	1
Carbofuran	P127	Toxic	1
Mexacarbate	P128	Toxic	1
Tirpate	P185	Toxic	1

(continued)

HAZARDOUS WASTE TABLE (continued)

Chemical Name	EPA Hazardous Waste Number	Hazard	Estimated Annual Quantity (in pounds)
Physostigmine Salicylate	P188	Toxic	1
Carbosulfan	P189	Toxic	1
Metolcarb	P190	Toxic	1
Dimetilan	P191	Toxic	1
Isolan	P192	Toxic	1
Oxamyl	P194	Toxic	1
Manganese dimethyldithiocarbamate	P196	Toxic	1
Formparanate	P197	Toxic	1
Formetanate hydrochloride	P198	Toxic	1
Methiocarb	P199	Toxic	1
Promecarb	P201	Toxic	1
m-Cymenyl methylcarbamate	P202	Toxic	1
Aldicarb Sulfone	P203	Toxic	1
Physostigmine	P204	Toxic	1
Ziram	P205	Toxic	1
Ethanol	U001	Ignitable	1
Acetone	U002	Toxic	500
Acetonitrile	U003	Ignitable, Toxic	2
Acetophenone	U004	Toxic	2
2-Acetylaminofluorene	U005	Toxic	1
Acetyl Chloride	U006	Corrosive, Reactive, Toxic	3
Acrylamide	U007	Toxic	1
Acrylic Acid	U008	Ignitable	1
Acrylonitrile	U009	Toxic	22
Mitomycin	U010	Toxic	1
Amitrole	U011	Toxic	1

(continued)

HAZARDOUS WASTE TABLE (continued)

Chemical Name	EPA Hazardous Waste Number	Hazard	Estimated Annual Quantity (in pounds)
Aniline	U012	Toxic	25
Auramine	U014	Toxic	1
Azaserine	U015	Toxic	1
Benz[c] Acridine	U016	Toxic	1
Benzal Chloride	U017	Toxic	1
1,2-Benzathracene	U018	Toxic	1
Benzene	U019	Ignitable, Toxic	260
Benzenesulfonyl Chloride	U020	Corrosive, Reactive	1
Benzidine	U021	Toxic	1
3,4-Benzopyrene	U022	Toxic	1
Benzene, (trichloromethyl)-	U023	Corrosive	20
Bis(2-chloroethoxy) Methane	U024	Toxic	1
Dichloroethyl Ether	U025	Toxic	1
Chlornaphazine	U026	Toxic	1
Bis(2-chloroisopropyl) Ether	U027		1
Bis(2-ethylhexyl) Phthalate	U028	Toxic	1
Methyl Bromide	U029	Toxic	1
4-Bromophenyl Phenyl Ether	U030	Toxic	1
1-Butanol	U031	Ignitable	70
Chromic Acid, Calcium Salt	U032	Toxic	35
Carbonyl Fluoride	U033	Reactive, Toxic	1
Chloral	U034	Toxic	1
Chlorambucil	U035	Toxic	1
Chlordane, Technical	U036	Toxic	15
Chlorobenzene	U037	Toxic	65
Ethyl 4,4'-dichlorobenzilate	U038	Toxic	1
4-Chloro-m-cresol	U039	Toxic	1

(continued)

HAZARDOUS WASTE TABLE (continued)

Chemical Name	EPA Hazardous Waste Number	Hazard	Estimated Annual Quantity (in pounds)
Oxirane, 2-(chloromethyl)-	U041	Toxic	1
Ethane, 2-chloroethoxy-	U042	Toxic	1
Vinyl Chloride	U043	Toxic	1
Chloroform	U044	Toxic	1,100
Methyl Chloride	U045	Ignitable, Toxic	1
Methane, Chloromethoxy-	U046	Toxic	1
beta-Chloronaphthalene	U047	Toxic	4
o-Chlorophenol	U048	Toxic	1
Benzenamine, 4-chloro-2-methyl	U049	Toxic	1
Chrysene	U050	Toxic	1
Creosote	U051	Toxic	1
Cresols	U052	Toxic	28
2-Butenal	U053	Toxic	1
Cumene	U055	Ignitable	1
Cyclohexane	U056	Ignitable	200
Cyclohexanone	U057	Ignitable	44
Cyclophosphamide	U058	Toxic	1
Daunomycin	U059	Toxic	1
DDD	U060	Toxic	1
DDT	U061	Toxic	1
Diallate	U062	Toxic	1
Dibenz[a,]anthracene	U063	Toxic	1
Dibenz[a,i]pyrene	U064	Toxic	1
1,2-Dibromo-3-chloropropane	U066	Toxic	1
Ethylene Dibromide	U067	Toxic	2
Methylene Bromide	U068	Toxic	1
Dibutyl Phthalate	U069	Toxic	3

(continued)

HAZARDOUS WASTE TABLE (continued)

Chemical Name	EPA Hazardous Waste Number	Hazard	Estimated Annual Quantity (in pounds)
Benzene, 1,2-dichloro-	U070	Toxic	4
m-Dichlorobenzene	U071	Toxic	15
p-Dichlorobenzene	U072	Toxic	2
3,3'-Dichlorobenzidine	U073	Toxic	1
1,4-Dichloro-2-butene	U074	Ignitable, Toxic	1
Dichlorodifluoromethane	U075	Toxic	1
Ethane, 1,1-dichloro-	U076	Toxic	3,000
Ethylene Dichloride	U077	Toxic	1
1,1-Dichloroethylene	U078	Toxic	1
1,2-Dichloroethylene	U079	Toxic	1
Methane, dichloro-	U080	Toxic	815
2,4-Dichlorophenol	U081	Toxic	1
2,6-Dichlorophenol	U082	Toxic	1
Propylene Dichloride	U083	Toxic	1
1,3-Dichloropropene	U084	Toxic	1
2,2'-Bioxirane	U085	Ignitable, Toxic	1
N,N-Diethyldydrazine	U086	Toxic	1
O,O-Diethyl-S-methyl-dithiophosphate	U087	Toxic	1
Deithyl Phthalate	U088	Toxic	2
Diethylstilbestrol	U089	Toxic	1
Dihydrosafrole	U090	Toxic	1
3,3'-Dimethoxybenzidine	U091	Toxic	1
Dimethylamine	U092	Toxic	1
Dimethylaminoazobenzene	U093	Toxic	1
7,12-Dimethylbenz[a]anthracene	U094	Toxic	1
3,3'-Dimethylbenzidine	U095	Toxic	1
alpha, alpha-Dimethylbenzyl-	U096	Reactive	1,500

(continued)

HAZARDOUS WASTE TABLE (continued)

Chemical Name	EPA Hazardous Waste Number	Hazard	Estimated Annual Quantity (in pounds)
hydroperoxide			
Dimethylcarbamoyl Chloride	U097	Toxic	1
1,1-Dimethylhydrazine	U098	Toxic	3
1,2-Dimethylhydrazine	U099	Toxic	1
2,4-Dimethylphenol	U101	Toxic	2
Dimethyl Phthalate	U102	Toxic	1
Dimethyl Sulfate	U103	Toxic	1
2,4-Dinitrotoluene	U105	Toxic	1
2,6-Dinitrotoluene	U106	Toxic	1
Din-n-octyl phthalate	U107	Toxic	1
1,4-Dioxane	U108	Toxic	15
1,2-Dephenylhydrazine	U109	Toxic	1
Dipropylamine	U110	Ignitable	1
Di-N-propylnitrosamine	U111	Toxic	1
Ethyl Acetate	U112	Ignitable	16,000
Ethyl Acrylate	U113	Ignitable	1
Ethylenebis(dithiocarbamic acid)	U114	Toxic	1
Oxirane	U115	Ignitable, Toxic	1
Ethylene Thiourea	U116	Toxic	1
Ethyl Ether	U117	Ignitable	485
Ethylmethacrylate	U118	Toxic	1
Ethyl Methanesulfonate	U119	Toxic	1
Fluoranthene	U120	Toxic	1
Trichloromonofluoromethane	U121	Toxic	1
Formaldehyde	U122	Toxic	200
Formic Acid	U123	Corrosive, Toxic	12
Furan	U124	Ignitable	2

(continued)

HAZARDOUS WASTE TABLE (continued)

Chemical Name	EPA Hazardous Waste Number	Hazard	Estimated Annual Quantity (in pounds)
2-Furancarboxaldehyde	U125	Ignitable	200
Glycidylaldehyde	U126	Toxic	1
Hexachlorobenzene	U127	Toxic	2
Hexachlorobutadiene	U128	Toxic	1
Lindane	U129	Toxic	1
Hexachlorocyclopentadiene	U130	Toxic	1
Hexachloroethane	U131	Toxic	1
Hexachlorophene	U132	Toxic	1
Hydrazine	U133	Toxic/Reactive	6
Hydrogen Fluoride	U134	Corrosive, Toxic	260
Hydrogen Sulfide	U135	Toxic	1
Cacodylic Acid	U136	Toxic	1
Ideno[1,2,3-cd] pyrene	U137	Toxic	1
Methane, iodo-	U138	Toxic	2
Iron Detran	U139	Toxic	1
Isobutyl Alcohol	U140	Ignitable, Toxic	3
Isosaffrole	U141	Toxic	1
Kepone	U142	Toxic	1
Lasiocarpine	U143	Toxic	1
Lead Acetate	U144	Toxic	4
Phosphoric Acid, Lead Salt	U145	Toxic	8
Lead Subacetate	U146	Toxic	1
Maleic Hydrazine	U147	Toxic	2
Maleic Hydrazine	U148	Toxic	1
Malononitrile	U149	Toxic	1
Melphalon	U150	Toxic	4
Mercury	U151	Toxic	1,600

(continued)

HAZARDOUS WASTE TABLE (continued)

Chemical Name	EPA Hazardous Waste Number	Hazard	Estimated Annual Quantity (in pounds)
Methacrylonitrile	U152	Ignitable, Toxic	1
Methanethiol	U153	Ignitable, Toxic	1
Methyl Alcohol	U154	Ignitable	1,500
Methapyrilene	U155	Toxic	1
Methyl Chlorocarbonate	U156	Ignitable, Toxic	35
3-Methylcholanthrene	U157	Toxic	1
4,4'-Methylenebis (2-chloro-aniline)	U158	Toxic	1
Methyl Ethyl Ketone	U159	Ignitable, Toxic	1,100
2-Butanone Peroxide	U160	Reactive, Toxic	1
METHYL ISOBUTYL KETONE	U161	IGNITABLE, TOXIC	1
Methyl Methacrylate	U162	Ignitable, Toxic	1
Guanidine, N-nitroso-N-methyl-N'nitro	U163	Toxic	1
Methylthiouracil	U164	Toxic	1
Naphthalen	U165	Toxic	1
1,4-Naphthaquinone	U166	Toxic	1
1-Naphthylamine	U167	Toxic	1
2-Naphthylamine	U168	Toxic	1
Nitrobenzene	U169	Ignitable, Toxic	1
p-Nitrophenol	U170	Toxic	1
2-Nitropropane	U171	Toxic	1
N-Nitrosodi-n-butylamine	U172	Toxic	1
N-Nitrosodiethanolamine	U173	Toxic	1
N-Nitrosodiethylamine	U174	Toxic	1
N-Nitroso-N-ethylurea	U176	Toxic	1
N-Nitroso-N-methylurea	U177	Toxic	1
N-Nitroso-N-methylurthane	U178	Toxic	1
N-Nitrosopiperidine	U179	Toxic	1

(continued)

HAZARDOUS WASTE TABLE (continued)

Chemical Name	EPA Hazardous Waste Number	Hazard	Estimated Annual Quantity (in pounds)
N-Nitrosopyrrolidine	U180	Toxic	1
5-Nitro-o-toluidine	U181	Toxic	1
Paraldehyde	U182	Toxic	1,500
Pentachlorobenzene	U183	Toxic	2
Pentachloroethane	U184	Toxic	1
Pentachloronitrobenzene	U185	Toxic	1
1,3-Pentadiene	U186	Ignitable	1
Phenacetin	U187	Toxic	1
Phenol	U188	Toxic	4
Sulfur Phosphide	U189	Reactive	1
1,2-Benzenedicarboxylic Acid Anhydride	U190	Toxic	20
2-Picoline	U191	Toxic	1
Pronamide	U192	Toxic	1
1,3-Propane Sultone	U193	Toxic	1
1-Propanamine	U194	Ignitable, Toxic	1
Pyridine	U196	Toxic	175
p-Benzoquinone	U197	Toxic	1
Reserpine	U200	Toxic	1
Resorcinol	U201	Toxic	2
Saccharin and Salts	U202	Toxic	1
Safrole	U203	Toxic	1
Selenium Dioxide	U204	Toxic	2
Selenium Disulfide	U205	Reactive, Toxic	1
Streptozotocin	U206	Toxic	1
Benzene, 1,2,4,5-tetrachloro-	U207		1
1,1,1,2-Tetrachloroethane	U208	Toxic	1
1,1,2,2-Tetrachloroethane	U209	Toxic	20

(continued)

HAZARDOUS WASTE TABLE (continued)

Chemical Name	EPA Hazardous Waste Number	Hazard	Estimated Annual Quantity (in pounds)
Tetrachloroethylene	U210	Toxic	1,500
Carbon Tetrachloride	U211	Toxic	140
Tetrahydrofuran	U213	Ignitable	1,200
Thallium (I) Acetate	U214	Toxic	1
Thallium (I) Carbonate	U215	Toxic	1
Thallium (I) Chloride	U216	Toxic	1
Thallium (I) Nitrate	U217	Toxic	1
Thioacetamide	U218	Toxic	1
Thiourea	U219	Toxic	1
Toluene	U220	Toxic	2,200
Toluenediamine	U221	Toxic	2
O-Toluidine Hydrochloride	U222	Toxic	1
Toluene Diisocyanate	U223	Reactive, Toxic	1
Bromoform	U225	Toxic	1
1,1,1-Trichloroethane	U226	Toxic	4,500
1,1,2-Trichloroethane	U227	Toxic	40
Trichloroethylene	U228	Toxic	1,530
Sym-Trinitrobenzene	U234	Reactive, Ignitable	1
Tris(2,3-dibromopropyl) Phosphate	U235	Toxic	1
Typan Blue	U236	Toxic	1
Uracil Mustard	U237	Toxic	1
Ethyl Carbamate (urethan)	U238	Toxic	1
Xylene	U239	Ignitable	1,155
2,44-D, Salts and Esters	U240	Toxic	1
Hexachloropropene	U243	Toxic	1
Thiram	U244	Toxic	1
Cyanogen Bromide	U246	Toxic	1

(continued)

HAZARDOUS WASTE TABLE (continued)

Chemical Name	EPA Hazardous Waste Number	Hazard	Estimated Annual Quantity (in pounds)
Methoxychlor	U247	Toxic	1
Warfarin	U248	Toxic	1
Zinc Phosphide	U249	Toxic	1
Benomyl	U271	Toxic	1
Bendiocarb	U278	Toxic	1
Carbaryl	U279	Toxic	1
Barban	U280	Toxic	1
Bendiocarb phenol	U364	Toxic	1
Carbofuran phenol	U367	Toxic	1
Carbendazim	U372	Toxic	1
Propham	U373	Toxic	1
Prosulfocarb	U387	Toxic	1
Triallate	U389	Toxic	1
A2213	U394	Toxic	1
Diethylene glycol, dicarbamate	U395	Toxic	1
Triethylamine	U404	Toxic	1
2,4,6-Tribromophenol	U408	Toxic	1
Thiophanate-methyl	U409	Toxic	1
Thiodicarb	U410	Toxic	1
Propoxur	U411	Toxic	1

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Revision 0
September 2010

APPENDIX C-2

**WASTES CHARACTERISTICS FOR WASTE CODES
POTENTIALLY STORED AT BUILDING 479**

JUN 27 2011

DIV. OF HAZARDOUS
WASTE MGT.

00098

Revision 0
September 2010

WASTE CODES

D AND F

JUN 27 2011

DIV. OF HAZARDOUS
WASTE MGT.

00099

APPENDIX C-4									
WASTE CHARACTERISTICS FOR WASTE CODE PREFIXES D AND F									
Hazardous Waste Number	General description and hazardous constituents	Hazard code	Reactivity group number(s)	Halogen content % Wt	Specific gravity	Viscosity SSU	Physical form % solid Wt	Hazardous constituent % Wt	Water content % Wt
D001	Characteristically ignitable	I	varies	0-96	0.8-1.8	1-700	0-20	1-99	10-40
D002	Characteristically corrosive	C	varies	0-96	0.8-1.8	1-700	0-20	1-99	5-99
D003	Characteristically reactive	R	varies	0-96	0.8-1.8	1-700	1-100	1-10	0-99
D004	Arsenic (TCCLP)	E	24	0-96	0.8-1.8	1-700	1-100	1-10	0-99
D005	Barium (TCCLP)	E	24	0-96	0.8-1.8	1-700	1-100	1-10	0-99
D006	Cadmium (TCCLP)	E	24	0-96	0.8-1.8	1-700	1-100	1-10	0-99
D007	Chromium (TCCLP)	E	24	0-96	0.8-1.8	1-700	1-100	1-10	0-99
D008	Lead (TCCLP)	E	24	0-96	0.8-1.8	1-700	1-100	1-10	0-99
D009	Mercury (TCCLP)	E	24	0-96	0.8-1.8	1-700	1-100	1-10	0-99
D010	Selenium (TCCLP)	E	24	0-96	0.8-1.8	1-700	1-100	1-10	0-99
D011	Silver (TCCLP)	E	24	0-96	0.8-1.8	1-700	1-100	1-10	0-99
D012	Endrin (TCCLP)	E	17	1-56	0.8-1.8	1-700	1-100	1-80	0-99
D013	Lindane (TCCLP)	E	17	1-74	0.8-1.8	1-700	1-100	1-80	0-99
D014	Methoxychlor (TCCLP)	E	17	1-70	0.8-1.8	1-700	1-100	1-80	0-99
D015	Toxaphene (TCCLP)	E	17	1-70	0.8-1.8	1-700	1-100	1-80	0-99
D016	2, 4-D (TCCLP)	E	17	1-70	0.8-1.8	1-700	1-100	1-80	0-99
D017	2, 4, 5-TP Silver (TCCLP)	E	17	1-42	0.8-1.8	1-700	1-100	1-80	0-99
D018	Benzene (TCCLP)	E	16	0	0.8-1.8	1-700	1-100	1-80	0-99
D019	Carbon tetrachloride (TCCLP)	E	17	1-92	0.8-1.8	1-700	1-100	1-80	0-99
D020	Chlordane (TCCLP)	E	17	1-70	0.8-1.8	1-700	1-100	1-80	0-99
D021	Chlorobenzene (TCCLP)	E	17	1-33	0.8-1.8	1-700	1-100	1-80	0-99
D022	Chloroform (TCCLP)	E	17	1-89	0.8-1.8	1-700	1-100	1-80	0-99
D023	O-Cresol (TCCLP)	E	31	1-15	0.8-1.8	1-700	1-100	1-80	0-99
D024	m-Cresol (TCCLP)	E	31	1-15	0.8-1.8	1-700	1-100	1-80	0-99
D025	p-Cresol (TCCLP)	E	31	1-15	0.8-1.8	1-700	1-100	1-80	0-99
D026	Cresol (TCCLP)	E	31	1-15	0.8-1.8	1-700	1-100	1-80	0-99
D027	1, 4-Dichlorobenzene (TCCLP)	E	31	1-15	0.8-1.8	1-700	1-100	1-80	0-99
D028	1, 2-Dichloroethane (TCCLP)	E	17	1-44	0.8-1.8	1-700	1-100	1-80	0-99
D029	1, 1-Dichloroethylene (TCCLP)	E	17	1-71	0.8-1.8	1-700	1-100	1-80	0-99
		E	17	1-73	0.8-1.8	1-700	1-100	1-80	0-99

APPENDIX C-4 (continued)										
Hazardous Waste Number	General description and hazardous constituents		Hazard code	Reactivity group number(s)	Halogen content % Wt	Specific gravity	Viscosity SSU	Physical form % solid Wt	Hazardous constituent % Wt	Water content % Wt
D030	2, 4-Dinitrotoluene (TCLP)		E	17	1-24	0.8-1.8	1-700	1-100	1-80	0-99
D031	Heptachlor (TCLP)		E	17	1-67	0.8-1.8	1-700	1-100	1-80	0-99
D032	Hexachlorobenzene (TCLP)		E	17	1-75	0.8-1.8	1-700	1-100	1-80	0-99
D033	Hexachloro-1, 3-butadiene (TCLP)		E	17	1-81	0.8-1.8	1-700	1-100	1-80	0-99
D034	Hexachloroethane (TCLP)		E	17	1-90	0.8-1.8	1-700	1-100	1-80	0-99
D035	Methyl Ethyl Ketone (TCLP)		E	19	1-22	0.8-1.8	1-700	1-100	1-80	0-99
D036	Nitrobenzene (TCLP)		E	17	1-15	0.8-1.8	1-700	1-100	1-80	0-99
D037	Pentachlorophenol (TCLP)		E	17	1-66	0.8-1.8	1-700	1-100	1-80	0-99
D038	Pyridine (TCLP)		E	17	1-7	0.8-1.8	1-700	1-100	1-80	0-99
D039	Tetrachloroethylene (TCLP)		E	17	1-85	0.8-1.8	1-700	1-100	1-80	0-99
D040	Trichloroethylene (TCLP)		E	17	1-75	0.8-1.8	1-700	1-100	1-80	0-99
D041	2, 4, 5-Trichlorophenol (TCLP)		E	17	1-54	0.8-1.8	1-700	1-100	1-80	0-99
D042	2, 4, 6-Trichlorophenol (TCLP)		E	17	1-54	0.8-1.8	1-700	1-100	1-80	0-99
D043	Vinyl Chloride (TCLP)		E	17	1-73	0.8-1.8	1-700	1-100	1-80	0-99
F001	Spent halogenated solvents and sludges from degreasing operations									
	Tetrachloroethylene		T	17	1-86	0.8-1.8	1-700	1-100	20-80	0-99
	Trichloroethylene		T	17	1-81	0.8-1.8	1-700	1-100	20-80	0-99
	Methylene Chloride		T	17	1-84	0.8-1.8	1-700	1-100	20-80	0-99
	1, 1, 1-Trichloroethane		T	17	1-80	0.8-1.8	1-700	1-100	20-80	0-99
	Carbon Tetrachloride		T	17	1-93	0.8-1.8	1-700	1-100	20-80	0-99
	Chlorinated fluorocarbons		T	17	1-90	0.8-1.8	1-700	1-100	20-80	0-99
F002	Spent halogenated solvents and still bottoms from recovery									
	Tetrachloroethylene		T	17	1-85	0.8-1.8	1-700	1-100	20-80	0-99
	Methylene Chloride		T	17	1-81	0.8-1.8	1-700	1-100	20-80	0-99
	Trichloroethylene		T	17	1-84	0.8-1.8	1-700	1-100	20-80	0-99
	1, 1, 1-Trichloroethane		T	17	1-80	0.8-1.8	1-700	1-100	20-80	0-99
	Chlorobenzene		T	17	1-88	0.8-1.8	1-700	1-100	20-80	0-99
	1, 1, 2-Trichloro-1, 2, 2-Trifluoroethane		T	17	1-80	0.8-1.8	1-700	1-100	20-80	0-99
	o-Dichlorobenzene		T	17	0-49	0.8-1.8	1-700	1-100	20-80	0-99
	Trichlorofluoromethane		T	17	0-91	0.8-1.8	1-700	1-100	20-80	0-99

APPENDIX C-4 (continued)										
Hazardous Waste Number	General description and hazardous constituents		Hazard code	Reactivity group number(s)	Halogen content % Wt	Specific gravity	Viscosity SSU	Physical form % solid Wt	Hazardous constituent % Wt	Water content % Wt
F003	Spent non-halogenated solvents and still bottoms									
	Xylene		I	16	0-1	0.8-1.8	1-700	1-100	20-80	0-99
	Acetone		I	19	0-1	0.8-1.8	1-700	1-100	20-80	0-99
	Ethyl acetate		I	13	0-1	0.8-1.8	1-700	1-100	20-80	0-99
	Ethyl benzene		I	16	0-1	0.8-1.8	1-700	1-100	20-80	0-99
	Ethyl ether		I	14	0-1	0.8-1.8	1-700	1-100	20-80	0-99
	N-butyl alcohol		I	4	0-1	0.8-1.8	1-700	1-100	20-80	0-99
	Cyclohexane		I	19	0-1	0.8-1.8	1-700	1-100	20-80	0-99
	Methanol		I	4	0-1	0.8-1.8	1-700	1-100	20-80	0-99
F004	Spent non-halogenated solvents and still bottoms									
	Cresol and cresylic acid		T	31	0-1	0.8-1.8	1-700	1-99	20-80	0-99
	Nitrobenzene		T	27	0-1	0.8-1.8	1-700	1-99	20-80	0-99
F005	Spent non-halogenated solvents and still bottoms									
	Toluene		I, T	16	0-1	0.8-1.8	1-700	1-99	20-80	0-99
	Methyl Ethyl Ketone		I, T	19	0-1	0.8-1.8	1-700	1-99	20-80	0-99
	Carbon disulfide		I, T	20	0-1	0.8-1.8	1-700	1-99	20-80	0-99
	Isobutanol		I, T	4	0-1	0.8-1.8	1-700	1-99	20-80	0-99
	Pyridine		I, T	7	0-1	0.8-1.8	1-700	1-99	20-80	0-99
F006	Wastewater treatment sludges from electroplating operations									
	Cadmium		E	24	0-96	0.8-1.8	1-700	1-100	1-10	0-99
	Hexavalent Chromium		T	24	0-1	0.8-1.5	1-700	1-99	1-99	1-99
	Nickel		T	22, 24	varies	8.90	varies	varies	varies	varies
	Cyanide (complexed)		T	11	a	a	a	a	a	a
F007	Spent cyanide plating bath solutions from electroplating operations									
	Cyanide (salts)		T	11	a	a	a	a	a	a
F008	Plating sludges from the bottom of plating baths from electroplating operations where cyanides are used in the process									
	Cyanide (salts)		T	11	a	a	a	a	a	a
F009	Spent stripping and cleaning bath solutions from electroplating operations where cyanides are used in the process									
	Cyanide (salts)		T	11	a	a	a	a	a	a

APPENDIX C-4 (continued)										
Hazardous Waste Number	General description and hazardous constituents	Hazard code	Reactivity group number(s)	Halogen content % Wt	Specific gravity	Viscosity SSU	Physical form % solid Wt	Hazardous constituent % Wt	Water content % Wt	
F010	Quenching bath residues from oil baths from metal heat treating operations where cyanides are used in the process									
	Cyanide (salts)	T	11	a	a	a	a	a	a	
F011	Spent cyanide solutions from salt bath pot cleaning from metal heat treating operations									
	Cyanide (salts)	T	11	a	a	a	a	a	a	
F012	Quenching wastewater treatment sludges from metal heat treating operations where cyanides are used in the process									
	Cyanide (complexed)	T	11	a	a	a	a	a	a	
F019	Wastewater treatment sludges from the chemical conversion coating of aluminum									
	Hexavalent Chromium	T	24	0-1	0.8-1.5	1-700	1-99	1-99	1-99	
	Cyanide (complexed)	T	11	a	a	a	a	a	a	
F020	Wastes from the production or manufacturing use of tri- or tetrachlorophenol, or of intermediates used to produce their pesticide derivatives									
	Tetrachlorodibenzo-p-dioxins	T	14, 17	a	a	a	a	a	a	
	Pentachlorodibenzo-p-dioxins	T	14, 17	a	a	a	a	a	a	
	Tetrachlorodibenzofuran	T	14	0-1	0.9	a	a	a	a	
	Pentachlorodibenzofuran	T	14	0-1	0.9	a	a	a	a	
	Trichlorophenol	T	17, 31	1-84	0.8-1.8	1-700	1-99	1-99	1-99	
	Tetrachlorophenol	T	17, 31	1-84	0.8-1.8	1-700	1-99	1-99	1-99	
	Chlorophenoxy derivative acids	T	17, 31	1-84	0.8-1.8	1-700	1-99	1-99	1-99	
	Esters	T	13	varies	varies	varies	varies	-	-	
	Ethers	T	14	1-84	0.708	1-700	1-99	1-99	1-99	
	Amines and other salts	T	7	varies	varies	varies	varies	-	-	
F021	Wastes from the production or manufacturing use of pentachlorophenol, or of intermediates used to produce its derivatives									
	Pentachlorodibenzo-p-dioxins	-	17	a	a	a	a	a	a	
	Hexachlorodibenzo-p-dioxins	-	17	a	a	a	a	a	a	
	Pentachlorodibenzofuran	T	17, 31	a	a	a	a	a	a	
	Hexachlorodibenzofuran	T	17, 31	a	a	a	a	a	a	
	Pentachlorophenol	T	17, 31	1-84	0.8-1.8	1-700	1-99	1-99	1-99	
	Derivatives of pentachlorophenol	T	17, 31	1-84	0.8-1.8	1-700	1-99	1-99	1-99	

APPENDIX C-4 (continued)									
Hazardous Waste Number	General description and hazardous constituents	Hazard code	Reactivity group number(s)	Halogen content % Wt	Specific gravity	Viscosity SSU	Physical form % solid Wt	Hazardous constituent % Wt	Water content % Wt
F022	Wastes from the manufacturing use of tetra-, penta- or hexachlorobenzenes under alkaline conditions								
	Tetrachlorodibenzo-p-dioxins	T	17	a	a	a	a	a	a
	Pentachlorodibenzo-p-dioxins	T	17	a	a	a	a	a	a
	Hexachlorodibenzo-p-dioxins	T	17	a	a	a	a	a	a
	Tetrachlorodibenzofuran	T	17, 31	a	a	a	a	a	a
	Pentachlorodibenzofuran	T	17, 31	a	a	a	a	a	a
	Hexachlorodibenzofuran	T	17, 31	a	a	a	a	a	a
F023	Wastes from the production of materials on equipment previously used for the production or manufacturing use of tri- and tetrachlorophenols								
	Tetrachlorodibenzo-p-dioxins	T	17	a	a	a	a	a	a
	Pentachlorodibenzo-p-dioxins	T	17	a	a	a	a	a	a
	Tetrachlorodibenzofuran	T	17, 31	a	a	a	a	a	a
	Pentachlorodibenzofuran	T	17, 31	a	a	a	a	a	a
	Trichlorophenol	T	17, 31	1-84	0.8-1.8	1-700	1-99	1-99	1-99
	Tetrachlorophenol	T	17, 31	1-84	0.8-1.8	1-700	1-99	1-99	1-99
	Chlorophenoxy derivative acids	T	17, 31	1-84	0.8-1.8	1-700	1-99	1-99	1-99
	Esters	T	17, 31	varies	varies	varies	varies	varies	varies
	Ethers	T	13	varies	varies	varies	varies	varies	varies
	Amines and other salts	T	14	varies	varies	varies	varies	varies	varies
F024	Distillation residue tars, heavy ends from production of chlorinated aliphatic hydrocarbons with 1 to 5 carbon units								
	Chloromethane	T	17	20-96	0.8-1.8	1-700	1-99	20-80	0-99
	Dichloromethane	T	17	20-96	0.8-1.8	1-700	1-99	20-80	0-99
	Trichloromethane	T	17	20-96	0.8-1.8	1-700	1-99	20-80	0-99
	Carbon tetrachloride	T	17	20-96	0.8-1.8	1-700	1-99	20-80	0-99
	Chloroethylene	T	17	20-96	0.8-1.8	1-700	1-99	20-80	0-99
	1, 1-Dichloroethane	T	17	20-96	0.8-1.8	1-700	1-99	20-80	0-99
	1, 2-Dichloroethane	T	17	20-96	0.8-1.8	1-700	1-99	20-80	0-99
	trans-1-2-Dichloroethylene	T	17	20-96	0.8-1.8	1-700	1-99	20-80	0-99
	1, 1-Dichloroethylene	T	17	20-96	0.8-1.8	1-700	1-99	20-80	0-99
	1, 1, 1-Trichloroethane	T	17	20-96	0.8-1.8	1-700	1-99	20-80	0-99

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APPENDIX C-4 (continued)										
Hazardous Waste Number	General description and hazardous constituents	Hazard code	Reactivity group number(s)	Halogen content % Wt	Specific gravity	Viscosity SSU	Physical form % solid Wt	Hazardous constituent % Wt	Water content % Wt	
F024	1, 1, 2-Trichloroethane	T	17	20-96	0.8-1.8	1-700	1-99	20-80	0-99	
(cont.)	Trichloroethylene	T	17	20-96	0.8-1.8	1-700	1-99	20-80	0-99	
	1, 1, 2-Tetrachloroethane	T	17	20-96	0.8-1.8	1-700	1-99	20-80	0-99	
	1, 1, 2, 2-Tetrachloroethane	T	17	20-96	0.8-1.8	1-700	1-99	20-80	0-99	
	Tetrachloroethylene	T	17	20-96	0.8-1.8	1-700	1-99	20-80	0-99	
	Pentachloroethane	T	17	20-96	0.8-1.8	1-700	1-99	20-80	0-99	
	Hexachloroethane	T	17	20-96	0.8-1.8	1-700	1-99	20-80	0-99	
	Allyl chloride (3-Chloropropene)	T	17	20-96	0.8-1.8	1-700	1-99	20-80	0-99	
	Dichloropropane	T	17	20-96	0.8-1.8	1-700	1-99	20-80	0-99	
	Dichloropropene	T	17	20-96	0.8-1.8	1-700	1-99	20-80	0-99	
	2-Chloro-1, 3-butadiene	T	17	20-96	0.8-1.8	1-700	1-99	20-80	0-99	
	Hexachloro-1, 3-butadiene	T	17	20-96	0.8-1.8	1-700	1-99	20-80	0-99	
	Hexachlorocyclopentadiene	T	17	20-96	0.8-1.8	1-700	1-99	20-80	0-99	
	Hexachlorocyclohexane	T	17	20-96	0.8-1.8	1-700	1-99	20-80	0-99	
	Benzene	I, T	16	20-96	0.8-1.8	1-700	1-99	20-80	0-99	
	Chlorobenzene	T	17	20-96	0.8-1.8	1-700	1-99	20-80	0-99	
	Dichlorobenzene	T	17	20-96	0.8-1.8	1-700	1-99	20-80	0-99	
	1, 2, 4-Trichlorobenzene	T	17	20-96	0.8-1.8	1-700	1-99	20-80	0-99	
	Tetrachlorobenzene	T	17	20-96	0.8-1.8	1-700	1-99	20-80	0-99	
	Pentachlorobenzene	T	17	20-96	0.8-1.8	1-700	1-99	20-80	0-99	
	Hexachlorobenzene	T	17	20-96	0.8-1.8	1-700	1-99	20-80	0-99	
	Toluene	I, T	17	20-96	0.8-1.8	1-700	1-99	20-80	0-99	
	Naphthalene	T, I	16	20-96	0.8-1.8	1-700	1-99	20-80	0-99	
F025		T	Wastes from the production of certain aliphatic hydrocarbons by free radical catalyzed processes. Chlorinated aliphatic hydrocarbons having carbon chain lengths ranging from one to, and including five, with varying amounts and position of chlorine substitution.							
F026	Wastes from the production of materials on equipment previously used for the manufacturing use of tetra-, penta- or hexachlorobenzene under alkaline conditions									
	Tetrachlorodibenzo-p-dioxins	T	17	a	a	a	a	a	a	a

APPENDIX C-4 (continued)										
Hazardous Waste Number	General description and hazardous constituents	Hazard code	Reactivity group number(s)	Halogen content % Wt	Specific gravity	Viscosity SSU	Physical form % solid Wt	Hazardous constituent % Wt	Water content % Wt	
F026	Pentachlorodibenzo-p-dioxins	T	17	a	a	a	a	a	a	
(cont.)	Hexachlorodibenzo-p-dioxins	T	17	a	a	a	a	a	a	
	Tetrachlorodibenzofuran	T	17, 31	a	a	a	a	a	a	
	Pentachlorodibenzofuran	T	17, 31	a	a	a	a	a	a	
	Hexachlorodibenzofuran	T	17, 31	a	a	a	a	a	a	
F027	Discarded unused formulations containing tri-, tetra- or penta-chlorophenol or discarded unused formulations containing compounds (H) derived from these chlorophenols (this list does not include formulations containing hexachlorophene synthesized from prepurified 2, 4, 5-trichlorophenol as the sole component)									
	Pentachlorophenol	1, T	17	1-84	0.8-1.8	1-700	1-99	1-99	1-99	
	2, 3, 4, 6-Tetrachlorophenol	T	17	1-84	0.8-1.8	1-700	1-99	1-99	1-99	
	2, 4, 5-Trichlorophenol	T	17	1-84	0.8-1.8	1-700	1-99	1-99	1-99	
	2, 4, 6-Trichlorophenol	T	17	1-84	0.8-1.8	1-700	1-99	1-99	1-99	
	Silvex	T	17	1-84	0.8-1.8	1-700	1-99	1-99	1-99	
	2, 4, 5-Trichloroacetic acids, salts and esters	T	17	1-85	0.8-1.8	1-700	1-99	1-99	1-99	
	2, 4, 5-Trichlorophenoxypropionic acids, salts and esters	T	17	1-58	0.8-1.8	1-700	1-99	1-99	1-99	
F028	Residues resulting from the incineration or thermal treatment of soil contaminated with EPA hazardous waste numbers F020, F021, F022, F023, F026 and F027									
	Tetrachlorodibenzo-p-dioxins	T	17	a	a	a	a	a	a	
	Pentachlorodibenzo-p-dioxins	T	17	a	a	a	a	a	a	
	Hexachlorodibenzo-p-dioxins	T	17	a	a	a	a	a	a	
	Tetrachlorodibenzofuran	T	17, 31	a	a	a	a	a	a	
	Pentachlorodibenzofuran	T	17, 31	a	a	a	a	a	a	
	Hexachlorodibenzofuran	T	17, 31	a	a	a	a	a	a	
	Trichlorophenol	T	17, 31	1-84	0.8-1.8	1-700	1-99	1-99	1-99	
	Tetrachlorophenol	T	17, 31	1-84	0.8-1.8	1-700	1-99	1-99	1-99	
	Pentachlorophenol	T	17, 31	1-84	0.8-1.8	1-700	1-99	1-99	1-99	
	Chlorophenoxy derivative acids	T	17, 31	1-84	0.8-1.8	1-700	1-99	1-99	1-99	

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APPENDIX C-4 (continued)											
Hazardous Waste Number	General description and hazardous constituents	Hazard code	Reactivity group number(s)	Halogen content % Wt	Specific gravity	Viscosity SSU	Physical form % solid Wt	Hazardous constituent % Wt	Water content % Wt		
F028	Esters	T	13	varies	varies	varies	varies	varies	varies		
(cont.)	Ethers	T	14	varies	varies	varies	varies	varies	varies		
	Amines and other salts	T	7	20-96	0.8-1.8	1-700	1-99	varies	varies		
F039		T	Leachate resulting from the management of one or more of the following EPA hazardous waste codes: F020, F021, F022, F023, F027, and/or F028								
* HAZARD CODE (I = IGNITABILITY, C = CORROSIVITY, R = REACTIVITY, T = TOXIC, E = TOXICITY CHARACTERISTIC)											

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00107

Revision 0
September 2010

WASTE CODE

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00108

Chemical Name: Warfarin	
Synonyms: 3-(alpha-Acetylbenzyl)-4-hydroxycoumarin and salts	
Physical State: Crystals	Formula: C ₁₉ H ₁₆ O ₄
Viscosity: NA	Mol. Weight: 308.32
Specific Gravity: NA	Halogen Content: 0%
Waste Number: P001	Hazard Code: H
Hazardous Organic Constituents: Warfarin	
Chemical Name: Acetamide, N-(aminothioxomethyl)-	
Synonyms: (1-Acetyl-2-thiourea) (Acetyl thiourea)	
Physical State: NA	Formula: C ₃ H ₆ N ₂ OS
Viscosity: NA	Mol. Weight: 118.17
Specific Gravity: NA	Halogen Content: 0%
Waste Number: P002	Hazard Code: H
Hazardous Organic Constituents: Acetamide, N...	
Chemical Name: Acrolein	
Synonyms: (Acrylic aldehyde) (Aqualin) (Ethylene aldehyde) (2-Propenal)	
Physical State: Liquid	Formula: CH ₂ =CHCHO
Viscosity: .35 cp @ 20° C	Mol. Weight: 56.06
Specific Gravity: 0.841 @ 20° C	Halogen Content: 0%
Waste Number: P003	Hazard Code: H
Hazardous Organic Constituents: Acrolein	
Chemical Name: 1,2,3,4,10,10-Hexachloro-1,4,4a,5,8,8a-hexahydro-1,4:5,8-endo-exodimethanonaphthalene	
Synonyms: (Aldrin)	
Physical State: Crystals, sol. in halog. solv.	Formula: C ₁₂ H ₈ Cl ₆
Viscosity: NA	Mol. Weight: 364.9
Specific Gravity: NA	Halogen Content: Cl - 58.4%
Waste Number: P004	Hazard Code: H
Hazardous Organic Constituents: 1,2,3,4,10,10-Hexachloro.....	
Chemical Name: Allyl Alcohol	
Synonyms: (Vinyl carbinol) (2-Propene-1-ol)	
Physical State: Liquid	Formula: CH ₂ =CHCH ₂ OH
Viscosity: 31. SSU @ 20° C	Mol. Weight: 58.08
Specific Gravity: 0.854 @ 20° C	Halogen Content: 0%
Waste Number: P005	Hazard Code: H
Hazardous Organic Constituents: Allyl Alcohol	

Chemical Name: Aluminum Phosphide	
Synonyms: NA	
Physical State: Crystals, sol. in liquids	Formula: AlP
Viscosity: NA	Mol. Weight: 57.96
Specific Gravity: 2.85 @ 25° C	Halogen Content: 0%
Waste Number: P006	Hazard Code: H
Hazardous Organic Constituents: NA	
Chemical Name: 5-(Aminomethyl)-3-isoxazolol	
Synonyms: (Muscimol)	
Physical State: Liquid	Formula: C ₄ H ₆ N ₂ O ₂
Viscosity: NA	Mol. Weight: 114.10
Specific Gravity: NA	Halogen Content: 0%
Waste Number: P007	Hazard Code: H
Hazardous Organic Constituents: 5-(Aminomethyl)-3-...	
Chemical Name: 4-a Aminopyridine	
Synonyms: (alpha-Aminopyridine)	
Physical State: Crystals	Formula: C ₅ H ₆ N ₂
Viscosity: NA	Mol. Weight: 94.11
Specific Gravity: NA	Halogen Content: 0%
Waste Number: P008	Hazard Code: H
Hazardous Organic Constituents: 4-a Aminopyridine	
Chemical Name: Arsenic Acid	
Synonyms:	
Physical State: Solid, powder	Formula: H ₃ AsO ₄ .1/2H ₂ O
Viscosity: NA	Mol. Weight: 150.9
Specific Gravity: NA	Halogen Content: 0%
Waste Number: P010	Hazard Code: H
Hazardous Organic Constituents: Arsenic Acid	
Chemical Name: Arsenic (V) Oxide	
Synonyms: (Arsenic Oxide) (Arsenic Pentoxide)	
Physical State: Solid	Formula: As ₂ O ₅
Viscosity: NA	Mol. Weight: 229.8
Specific Gravity: NA	Halogen Content: 0%
Waste Number: P011	Hazard Code: H
Hazardous Organic Constituents: Arsenic (V) Oxide	

Chemical Name: Arsenic (III) Oxide	
Synonyms: (white arsenic)(arsenic trioxide)	
Physical State: Powder	Formula: As ₂ O ₃
Viscosity: NA	Mol. Weight: 197.8
Specific Gravity: 3.865 @ 25° C	Halogen Content: 0%
Waste Number: P012	Hazard Code: H
Hazardous Organic Constituents: Arsenic (III) Oxide	
Chemical Name: Barium Cyanide	
Synonyms: NA	
Physical State: NA	Formula: Ba(CN) ₂
Viscosity: NA	Mol. Weight: 189.38
Specific Gravity: NA	Halogen Content: 0%
Waste Number: P013	Hazard Code: H
Hazardous Organic Constituents: NA	
Chemical Name: Benzenethiol	
Synonyms: (Phenyl mercaptan) (Thiophenol)	
Physical State: Liquid	Formula: C ₆ H ₅ SH
Viscosity: 1.239 cP	Mol. Weight: 110.2
Specific Gravity: 1.0728 @ 25° C	Halogen Content: 0%
Waste Number: P014	Hazard Code: H
Hazardous Organic Constituents: Benzenethiol	
Chemical Name: Beryllium dust	
Synonyms: NA	
Physical State: NA	Formula: Be
Viscosity: NA	Mol. Weight: 9.012
Specific Gravity: NA	Halogen Content: 0%
Waste Number: P015	Hazard Code: H
Hazardous Organic Constituents: NA	
Chemical Name: Bis-(chloromethyl)-ether	
Synonyms: (Dichloromethyl ether) (Dichlorinated methyl oxide) (BCME)	
Physical State: Liquid	Formula: O(CH ₂ Cl) ₂
Viscosity: NA	Mol. Weight: 115
Specific Gravity: 1.315 @ 20° C	Halogen Content: Cl - 61.7%
Waste Number: P016	Hazard Code: H
Hazardous Organic Constituents: Bis-(chloromethyl)-Ether	

Chemical Name: Bromoacetone	
Synonyms: (2-Propanone, 1-bromo-)	
Physical State: Liquid	Formula: CH ₂ BrCOCH ₃
Viscosity: NA	Mol. Weight: 136.99
Specific Gravity: 1.631 @ 0° C	Halogen Content: Br - 58.4%
Waste Number: P017	Hazard Code: H
Hazardous Organic Constituents: Bromoacetone	
Chemical Name: Brucine	
Synonyms: (Monoclinic prisms) (Strychnidin-10-one, 2,3-dimethoxy-)	
Physical State: Solid	Formula: C ₂₃ H ₂₆ N ₂ O ₄
Viscosity: NA	Mol. Weight: 394.45
Specific Gravity: NA	Halogen Content: 0%
Waste Number: P018	Hazard Code: H
Hazardous Organic Constituents: Brucine	
Chemical Name: Dinoseb	
Synonyms: (2-sec-Butyl-6,4-dinitrophenol)	
Physical State: Crystals	Formula: (C ₄ H ₉)(NO ₂) ₂ C ₆ H ₂ OH
Viscosity: NA	Mol. Weight: 240.2
Specific Gravity: NA	Halogen Content: 0%
Waste Number: P020	Hazard Code: H
Hazardous Organic Constituents: Dinoseb	
Chemical Name: Calcium cyanide	
Synonyms: NA	
Physical State: NA	Formula: Ca(CN) ₂
Viscosity: NA	Mol. Weight: 92.12
Specific Gravity: NA	Halogen Content: 0%
Waste Number: P021	Hazard Code: H
Hazardous Organic Constituents: NA	
Chemical Name: Carbon bisulfide	
Synonyms: Carbon disulfide	
Physical State: NA	Formula: CS ₂
Viscosity: NA	Mol. Weight: 76.14
Specific Gravity: NA	Halogen Content: 0%
Waste Number: P022	Hazard Code: T
Hazardous Organic Constituents: NA	

Chemical Name: Chloroacetaldehyde	
Synonyms: (Chloroaldehyde)	
Physical State: Liquid	Formula: C ₂ H ₃ OC1
Viscosity: NA	Mol. Weight: 78.5
Specific Gravity: 1.19 @ 25° C	Halogen Content: Cl - 45.2%
Waste Number: P023	Hazard Code: H
Hazardous Organic Constituents: Chloroacetaldehyde	
Chemical Name: p-Chloroaniline	
Synonyms: (4-Chlorobenzenamine)	
Physical State: Solid	Formula: C ₆ H ₆ C1N
Viscosity: 3.35 cP @ 20° C	Mol. Weight: 127.6
Specific Gravity: 1.169 @ 77° C	Halogen Content: Cl - 27.8%
Waste Number: P024	Hazard Code: H
Hazardous Organic Constituents: p-Chloroaniline	
Chemical Name: 1-(o-Chlorophenyl) thiourea	
Synonyms: 1-(2-Chlorophenyl)-2-thiourea	
Physical State: Solid (needles or plates)	Formula: ClC ₆ H ₄ NHCSNH ₂
Viscosity: NA	Mol. Weight: 186.66
Specific Gravity: NA	Halogen Content: Cl - 19%
Waste Number: P026	Hazard Code: H
Hazardous Organic Constituents: 1-(o-Chlorophenyl),....	
Chemical Name: 3-Chloropropionitrile	
Synonyms: beta-Chloropropionitrile	
Physical State: Liquid	Formula: ClCH ₂ CH ₂ CN
Viscosity: NA	Mol. Weight: 89.5
Specific Gravity: 1.144	Halogen Content: Cl - 39.6%
Waste Number: P027	Hazard Code: H
Hazardous Organic Constituents: 3-Chloropropionitrile	
Chemical Name: Benzyl Chloride	
Synonyms: (Benzene, (chloromethyl)-)	
Physical State: Liquid	Formula: C ₆ H ₅ CH ₂ Cl
Viscosity: 1.400 cP	Mol. Weight: 126.58
Specific Gravity: 1.1026 @ 18° C	Halogen Content: Cl - 28%
Waste Number: P028	Hazard Code: H
Hazardous Organic Constituents: Benzyl Chloride	

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Chemical Name: Copper Cyanides	
Synonyms: NA	
Physical State: NA	Formula: CuCN
Viscosity: NA	Mol. Weight: 89.56
Specific Gravity: NA	Halogen Content: 0%
Waste Number: P029	Hazard Code: H
Hazardous Organic Constituents: NA	
Chemical Name: Cyanides (soluble cyanide salts)	
Synonyms: 3(2H)-Isoxazolene, 5-(aminomethyl)-	
Physical State: NA	Formula: Variable
Viscosity: NA	Mol. Weight: NA
Specific Gravity: NA	Halogen Content: NA
Waste Number: P030	Hazard Code: H
Hazardous Organic Constituents: NA	
Chemical Name: Cyanogen	
Synonyms: NA	
Physical State: gas/liquid	Formula: (CN) ₂
Viscosity: NA	Mol. Weight: 52.04
Specific Gravity: 2.335-.9577	Halogen Content: 54%
Waste Number: P031	Hazard Code: T
Hazardous Organic Constituents: Cyanogen	
Chemical Name: Chlorine Cyanide	
Synonyms: NA	
Physical State: Gas	Formula: ClCN
Viscosity: NA	Mol. Weight: 61.47
Specific Gravity: 1.186	Halogen Content: 57.1
Waste Number: P033	Hazard Code: T
Hazardous Organic Constituents: Chlorine Cyanide	
Chemical Name: 4,6-Dinitro-o-cyclohexylphenol	
Synonyms: (2-Cyclohexyl-4,6-dinitrophenol)	
Physical State: Crystals	Formula: C ₆ H ₁₁ C ₆ H ₂ OH(NO ₂) ₂
Viscosity: NA	Mol. Weight: 266.23
Specific Gravity: NA	Halogen Content: 0%
Waste Number: P034	Hazard Code: H
Hazardous Organic Constituents: 4,6-Dinitro-O-.....	

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Chemical Name: Dichloro Phenylarsine	
Synonyms: Phenyl dichloroarsine	
Physical State: Liquid	Formula: C ₆ H ₅ AsCl ₂
Viscosity: NA	Mol. Weight: 222.93
Specific Gravity: NA	Halogen Content: Cl - 31.85%
Waste Number: P036	Hazard Code: H
Hazardous Organic Constituents: Dichloro phenylarsine	
Chemical Name: 1,2,3,4,10,10-Hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-endo,exo-1,4:5,8-dimethanonaphthalene	
Synonyms: (Dieldrin)	
Physical State: Crystalline, sol. in orig. solv.	Formula: C ₁₂ H ₁₀ OCl ₆
Viscosity: NA	Mol. Weight: 380.9
Specific Gravity: 1.75	Halogen Content: Cl - 55.9%
Waste Number: P037	Hazard Code: H
Hazardous Organic Constituents: 1,2,3,4,10,10-Hexachloro....	
Chemical Name: Diethylarsine	
Synonyms: NA	
Physical State: NA	Formula: (C ₂ H ₅) ₂ AsH
Viscosity: NA	Mol. Weight: 134.05
Specific Gravity: NA	Halogen Content: 0%
Waste Number: P038	Hazard Code: H
Hazardous Organic Constituents: Diethylarsine	
Chemical Name: o,o-Diethyl-s-[2-(ethylthio)ethyl] phosphorodithioate	
Synonyms: (Disulfoton)	
Physical State: Liquid	Formula: (C ₂ H ₅ O) ₂ PSCH ₂ CH ₂ SCH ₂ CH ₃
Viscosity: NA	Mol. Weight: 174
Specific Gravity: 1.44 @ 20° C	Halogen Content: 0%
Waste Number: P039	Hazard Code: H
Hazardous Organic Constituents: o,o-Diethyl....	
Chemical Name: o,o-Diethyl-o-(2-pyrazinyl) phosphorothioate	
Synonyms: (Zinophos) (Thionazan)	
Physical State: Solid	Formula: C ₁₈ H ₂₀ O ₂
Viscosity: NA	Mol. Weight: 248.26
Specific Gravity: NA	Halogen Content: 0%
Waste Number: P040	Hazard Code: H
Hazardous Organic Constituents: o,o-Diethyl	

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Chemical Name: Diethyl-p-nitrophenyl phosphate	
Synonyms: (Para-oxon) (o,o-Diethyl phosphoric acid, o-p-nitro-phenylester)	
Physical State: Liquid	Formula: C ₁₀ H ₁₄ NO ₆ P
Viscosity: NA	Mol. Weight: 275.2
Specific Gravity: 1.2736 @ 20° C	Halogen Content: 0%
Waste Number: P041	Hazard Code: H
Hazardous Organic Constituents: Diethyl-p-nitrophenyl....	
Chemical Name: 1,2-Benzenediol,4-(1-hydroxy-2-(methyl(amino)ethyl)-	
Synonyms: (Epinephrine) (Adrenaline)	
Physical State: Crystals	Formula: C ₉ H ₁₃ NO ₃
Viscosity: NA	Mol. Weight: 183.20
Specific Gravity: NA	Halogen Content: 0%
Waste Number: P042	Hazard Code: H
Hazardous Organic Constituents: 1,2-Benzenediol,....	
Chemical Name: Diisopropyl fluorophosphate	
Synonyms: (Phosphorofluoridic acid, bis(1-methylethyl) ester) (Isofluorophate)	
Physical State: Liquid	Formula: C ₆ H ₁₄ FPO ₃
Viscosity: NA	Mol. Weight: 184.15
Specific Gravity: 1.07 (approx.)	Halogen Content: 10.3%
Waste Number: P043	Hazard Code: H
Hazardous Organic Constituents: Diisopropyl...	
Chemical Name: Dimethoate	
Synonyms: (Phosphorodithioc acid, o,o-dimethyl ester)	
Physical State: Solid	Formula: (CH ₃ O) ₂ PSSCH ₂ CONHCH ₃
Viscosity: NA	Mol. Weight: 229.28
Specific Gravity: 1.277 @ 65° C	Halogen Content: 0%
Waste Number: P044	Hazard Code: 0%
Hazardous Organic Constituents: Dimethoate	
Chemical Name: 3,3-Dimethyl-1-(methylthio)-2-butanone, 0-[(methylamino) carbonyl] Oxime-	
Synonyms: (Thiofanox)	
Physical State: Liquid	Formula: C ₉ H ₁₈ N ₂ O ₂ S
Viscosity: NA	Mol. Weight: 218.3
Specific Gravity: NA	Halogen Content: 0%
Waste Number: P045	Hazard Code: H
Hazardous Organic Constituents: 3,3-Dimethyl....	

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Chemical Name: Ethanamine, 1,1-dimethyl-2-phenyl-	
Synonyms: (alpha, alpha-Dimethyl phenethylamine)	
Physical State: Liquid	Formula: C ₁₀ H ₁₅ N
Viscosity: NA	Mol. Weight: 149.23
Specific Gravity: NA	Halogen Content: 0%
Waste Number: P046	Hazard Code: H
Hazardous Organic Constituents: Ethanamine	
Chemical Name: 4,6-Dinitro-o-cresol and salts	
Synonyms: (2-methyl-4,6-dinitrophenol) (DNOC)	
Physical State: Crystals	Formula: (NO ₂) ₂ C ₆ H ₂ (CH ₃)OH
Viscosity: NA	Mol. Weight: 198.1
Specific Gravity: NA	Halogen Content: 0%
Waste Number: P047	Hazard Code: H
Hazardous Organic Constituents: 4,6-Dinitro....	
Chemical Name: 2,4-Dinitrophenol	
Synonyms: NA	
Physical State: Crystal	Formula: (NO ₂) ₂ C ₆ H ₃ OH
Viscosity: NA	Mol. Weight: 184.11
Specific Gravity: 1.683 @ 24° C	Halogen Content: 0%
Waste Number: P048	Hazard Code: H
Hazardous Organic Constituents: 2,4-Dinitrophenol	
Chemical Name: 2,4-Dithiobiuret	
Synonyms: (Thiomidodicarbonic diamide)	
Physical State: Crystals	Formula: H ₂ NC(S)NHC(S)NH ₂
Viscosity: NA	Mol. Weight: 135.20
Specific Gravity: 1.522 @ 30° C	Halogen Content: 0%
Waste Number: P049	Hazard Code: H
Hazardous Organic Constituents: 2,4-Dithiobiuret	
Chemical Name: Endosulfan	
Synonyms: (Thiodan)	
Physical State: Crystals, sol. in org. sol.	Formula: C ₉ H ₆ Cl ₆ O ₃ S
Viscosity: NA	Mol. Weight: 407.0
Specific Gravity: 1.745 @ 20° C	Halogen Content: Cl - 52.3%
Waste Number: P050	Hazard Code: H
Hazardous Organic Constituents: Endosulfan	

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Chemical Name: Endrin	
Synonyms: (1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-1,4,5,8-endo-dimethanonaphthalene)	
Physical State: Crystals	Formula: C ₁₂ H ₈ Cl ₆ O
Viscosity: NA	Mol. Weight: 380.93
Specific Gravity: NA	Halogen Content: Cl - 55.85%
Waste Number: P051	Hazard Code: H
Hazardous Organic Constituents: Endrin	
Chemical Name: Aziridine	
Synonyms: (Ethylenimine)	
Physical State: Liquid	Formula: NHCH ₂ CH ₂
Viscosity: NA	Mol. Weight: 43.07
Specific Gravity: 0.832 @ 20° C	Halogen Content: 0%
Waste Number: P054	Hazard Code: H
Hazardous Organic Constituents: Aziridine	
Chemical Name: Fluorine	
Synonyms: NA	
Physical State: Gas	Formula: F
Viscosity: NA	Mol. Weight: 19
Specific Gravity: 1.69	Halogen Content: 100%
Waste Number: P056	Hazard Code: T
Hazardous Organic Constituents: NA	
Chemical Name: Fluoroacetimide	
Synonyms: NA	
Physical State: Liquid	Formula: H ₂ FCCONH ₂
Viscosity: NA	Mol. Weight: 77
Specific Gravity: NA	Halogen Content: F - 24.65%
Waste Number: P057	Hazard Code: H
Hazardous Organic Constituents: Fluoroacetimide	
Chemical Name: Fluoroacetic acid, sodium salt	
Synonyms: (fluoroethanic acid, fluoraeticacid)	
Physical State: Solid, water soluble	Formula: CH ₂ FCOOH
Viscosity: NA	Mol. Weight: 78.0
Specific Gravity: NA	Halogen Content: F - 24.4%
Waste Number: P058	Hazard Code: H
Hazardous Organic Constituents: Fluoroactic Acid,....	

Chemical Name: Heptachlor	
Synonyms: (1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro-4,7-methano-1H-indene)	
Physical State: Crystals, sol. in org. solv.	Formula: C ₁₀ H ₇ Cl ₇
Viscosity: NA	Mol. Weight: 375.3
Specific Gravity: 1.57 @ 9° C	Halogen Content: Cl - 66.2%
Waste Number: P059	Hazard Code: H
Hazardous Organic Constituents: Heptachlor	
Chemical Name: 1,2,3,4,10,10-Hexachloro-1,4,4a,5,8,8a-hexahydro-1,4:5,8-endo, endo-dimethanonaphthalene	
Synonyms: (Isodrin)	
Physical State: Crystals	Formula: C ₁₂ H ₈ Cl ₆
Viscosity: NA	Mol. Weight: 364.9
Specific Gravity: NA	Halogen Content: Cl - 58.4%
Waste Number: P060	Hazard Code: H
Hazardous Organic Constituents: 1,2,3,4,10,10-Hexachloro....	
Chemical Name: Hexaethyl tetraphosphate	
Synonyms: (Ethyl tetraphosphate) (HETP)	
Physical State: Liquid	Formula: (C ₂ H ₅ O) ₆ P ₄ O ₇
Viscosity: NA	Mol. Weight: 506.4
Specific Gravity: 1.2917 @ 27° C	Halogen Content: 0%
Waste Number: P062	Hazard Code: H
Hazardous Organic Constituents: Hexaethyl tetraphosphate	
Chemical Name: Methyl isocyanate	
Synonyms: (Isocyanic acid, methyl ester)	
Physical State: Liquid	Formula: CH ₃ NCO
Viscosity: NA	Mol. Weight: 57
Specific Gravity: .9599 @ 20° C	Halogen Content: 0%
Waste Number: P064	Hazard Code: H
Hazardous Organic Constituents: Methyl isocyanate	
Chemical Name: Fulminic Acid	
Synonyms: Mercury (II) salt, Mercury Fulminate	
Physical State: NA	Formula: Hg(CNO) ₂
Viscosity: NA	Mol. Weight: 284.62
Specific Gravity: 4.42	Halogen Content: 21%
Waste Number: P065	Hazard Code: R, T
Hazardous Organic Constituents: Mercury (II) salt	

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Chemical Name: Methomyl	
Synonyms: (Lannate) (Acetimidic acid,N-[(methylcarbamoyl)oxy]thio-,methyl ester)	
Physical State: Solid, water soluble	Formula: C ₆ H ₁₀ O ₂ N ₂ S
Viscosity: NA	Mol. Weight: 162.1
Specific Gravity: 1.2946 @ 24° C	Halogen Content: 0%
Waste Number: P066	Hazard Code: H
Hazardous Organic Constituents: Methomyl	
Chemical Name: 2-Methylaziridine	
Synonyms: (1,2-Propylenimine)	
Physical State: Liquid	Formula: NHCH ₂ CHCH ₃
Viscosity: NA	Mol. Weight: 58.10
Specific Gravity: NA	Halogen Content: 0%
Waste Number: P067	Hazard Code: H
Hazardous Organic Constituents: 2-Methylaziridine	
Chemical Name: Hydrazine, methyl	
Synonyms: Methyl hydrazine	
Physical State: Liquid	Formula: CH ₃ NHNH ₂
Viscosity: NA	Mol. Weight: 46
Specific Gravity: 0.874 @ 20° C	Halogen Content: 0%
Waste Number: P068	Hazard Code: H
Hazardous Organic Constituents: Hydrazine, methyl	
Chemical Name: 2-Methylactonitrile	
Synonyms: (Propanenitrile, 2-hydroxy-2-methyl-)	
Physical State: Liquid	Formula: C ₄ H ₇ NO
Viscosity: NA	Mol. Weight: 85.10
Specific Gravity: .932 @ 19° C	Halogen Content: 0%
Waste Number: P069	Hazard Code: 0%
Hazardous Organic Constituents: 2-Methylactonitrile	
Chemical Name: Aldicarb	
Synonyms: (2-methyl-2-(methylthio)propionaldehyde-o-(Temik)methyl carbonyl oxime)	
Physical State: Solid	Formula: C ₇ H ₁₄ O ₂ N ₂ S
Viscosity: NA	Mol. Weight: 190.25
Specific Gravity: NA	Halogen Content: 0%
Waste Number: P070	Hazard Code: H
Hazardous Organic Constituents: Aldicarb	

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Chemical Name: o,o-Dimethyl-o,p-nitrophenyl phosphorothioate	
Synonyms: Methyl parathion	
Physical State: Solid	Formula: C ₈ H ₁₀ NO ₅ PS
Viscosity: NA	Mol. Weight: 263.23
Specific Gravity: 1.235 @ 20° C	Halogen Content: 0%
Waste Number: P071	Hazard Code: H
Hazardous Organic Constituents: o,o-Dimethyl...	
Chemical Name: alpha-Naphthylthiourea	
Synonyms: (1-(1-Naphthyl)-2-Thiourea)	
Physical State: Solid	Formula: C ₁₁ H ₁₀ N ₂ S
Viscosity: NA	Mol. Weight: 202.3
Specific Gravity: NA	Halogen Content: 0%
Waste Number: P072	Hazard Code: H
Hazardous Organic Constituents: alpha-Naphthylthiourea	
Chemical Name: Nickel Carbonyl	
Synonyms: Nickel Tetracarbonyl	
Physical State: Liquid	Formula: Ni(CO) ₄
Viscosity: NA	Mol. Weight: 170.69
Specific Gravity: 1.3185 @ 17° C	Halogen Content: 0%
Waste Number: P073	Hazard Code: 0%
Hazardous Organic Constituents: Nickel Carbonyl	
Chemical Name: Nickel Cyanide	
Synonyms: Nickel (II) Cyanide	
Physical State: NA	Formula: Ni(CN) ₂ 4H ₂ O
Viscosity: NA	Mol. Weight: 182.81
Specific Gravity: NA	Halogen Content: 0%
Waste Number: P074	Hazard Code: H
Hazardous Organic Constituents: NA	
Chemical Name: Nicotine and salts	
Synonyms: (Pyridine, (S)-3-(1-methyl-2-pyrrolidinyl)-, and salts)	
Physical State: Liquid	Formula: C ₁₀ H ₁₄ N ₂
Viscosity: NA	Mol. Weight: 162.23
Specific Gravity: 1.0092 @ 20° C	Halogen Content: 0%
Waste Number: P075	Hazard Code: H
Hazardous Organic Constituents: Nicotine and salts	

Chemical Name: Nitric Oxide	
Synonyms: Nitrogen (II) Oxide	
Physical State: Gas	Formula: NO
Viscosity: NA	Mol. Weight: 30
Specific Gravity: NA	Halogen Content: 100%
Waste Number: P076	Hazard Code: T
Hazardous Organic Constituents: Nitrogen Oxide	
Chemical Name: Benzenamine, 4-nitro-	
Synonyms: (p-Nitroaniline) (1-Amino-4-nitrobenzene)	
Physical State: Yellow crystals	Formula: C ₆ H ₆ N ₂ O ₂
Viscosity: NA	Mol. Weight: 138.1
Specific Gravity: 1.424	Halogen Content: 0%
Waste Number: P077	Hazard Code: H
Hazardous Organic Constituents: Benzenamine, 4-nitro-	
Chemical Name: Nitrogen dioxide	
Synonyms: Nitrogen (IV) oxide	
Physical State: Gas, liquid	Formula: NO ₂
Viscosity: NA	Mol. Weight: 46.01
Specific Gravity: 1.448 - 1.58	Halogen Content: 100%
Waste Number: P078	Hazard Code: T
Hazardous Organic Constituents: Nitrogen dioxide	
Chemical Name: Nitroglycerine	
Synonyms: 1,2,3-Propanetrio, Trinitrate	
Physical State: Solid/liquid	Formula: O ₂ NOCH ₂ CH(ONO ₂)CH ₂ ONO ₂
Viscosity: NA	Mol. Weight: 227.09
Specific Gravity: 1.5931	Halogen Content: 82%
Waste Number: P081	Hazard Code: R
Hazardous Organic Constituents: Nitroglycerine	
Chemical Name: Dimethylnitrosamine	
Synonyms: N-Nitrosodimethylamine	
Physical State: NA	Formula: (CH ₃) ₂ N•NO
Viscosity: NA	Mol. Weight: 74.08
Specific Gravity: NA	Halogen Content: 0%
Waste Number: P082	Hazard Code: H
Hazardous Organic Constituents: Dimethylnitrosamine	

Chemical Name: N-Nitrosomethylvinylamine	
Synonyms: Ethenamine, N-methyl-N-nitroso-	
Physical State: NA	Formula: C ₃ H ₆ N ₂ O
Viscosity: NA	Mol. Weight: 86.11
Specific Gravity: NA	Halogen Content: 0%
Waste Number: P084	Hazard Code: H
Hazardous Organic Constituents: N-Nitrosomethylvinylamine	
Chemical Name: Diphosphoromide, octamethyl-	
Synonyms: (Octamethyl pyrophosphoramide)	
Physical State: Liquid	Formula: C ₈ H ₂₄ N ₄ P ₂ O ₃
Viscosity: NA	Mol. Weight: 286.34
Specific Gravity: 1.137 @ 25° C	Halogen Content: 0%
Waste Number: P085	Hazard Code: H
Hazardous Organic Constituents: Diphosphoromide,...	
Chemical Name: Osmium tetroxide	
Synonyms: Osmic acid	
Physical State: Solid	Formula: O ₄ Os
Viscosity: NA	Mol. Weight: 254.20
Specific Gravity: 4.906 @ 22° C	Halogen Content: 0%
Waste Number: P087	Hazard Code: H
Hazardous Organic Constituents: NA	
Chemical Name: 7-Oxabicyclo[2,2,1]heptane-2,3-dicarboxylic acid	
Synonyms: Endothall	
Physical State: Solid	Formula: C ₈ H ₈ Na ₂ O
Viscosity: NA	Mol. Weight: 230.1
Specific Gravity: NA	Halogen Content: 0%
Waste Number: P088	Hazard Code: H
Hazardous Organic Constituents: 7-Oxabicyclo...	
Chemical Name: Phosphorothioic acid, 0,0-diethyl-0-(p-nitrophenyl)ester	
Synonyms: (Parathion) (Diethyl-p-nitrophenylmonothiophosphate)	
Physical State: Liquid	Formula: C ₁₀ H ₁₄ NO ₅ PS
Viscosity: NA	Mol. Weight: 291.27
Specific Gravity: 1.27 @ 25° C	Halogen Content: NA
Waste Number: P089	Hazard Code: H
Hazardous Organic Constituents: Phosphorothioic acid,...	

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Chemical Name: Phenylmercuric acetate	
Synonyms: Mercury, (acetato-O)phenyl-	
Physical State: NA	Formula: C ₆ H ₅ HgO ₂ CCH ₃
Viscosity: NA	Mol. Weight: 336.74
Specific Gravity: NA	Halogen Content: 0%
Waste Number: P092	Hazard Code: H
Hazardous Organic Constituents: Phenylmercuric acetate	
Chemical Name: N-Phenylthiourea	
Synonyms: Thiourea, phenyl-	
Physical State: Solid	Formula: C ₆ H ₅ NHCSNH ₂
Viscosity: NA	Mol. Weight: 152.23
Specific Gravity: 1.3	Halogen Content: 0%
Waste Number: P093	Hazard Code: H
Hazardous Organic Constituents: N-Phenylthiourea	
Chemical Name: Phosphorodithioic acid, o,o-diethyl-s-(ethylthio) methyl ester	
Synonyms: Phorate	
Physical State: Liquid	Formula: C ₇ H ₁₇ O ₂ PS ₃
Viscosity: NA	Mol. Weight: 260.40
Specific Gravity: 1.156	Halogen Content: 0%
Waste Number: P094	Hazard Code: H
Hazardous Organic Constituents: Phosphorodithioic acid,...	
Chemical Name: Carbonyl Chloride	
Synonyms: Phosgene	
Physical State: Gas	Formula: Cl ₂ CO
Viscosity: NA	Mol. Weight: 98.92
Specific Gravity: 1.381	Halogen Content: 71%
Waste Number: P095	Hazard Code: T
Hazardous Organic Constituents: Carbonyl Chloride	
Chemical Name: Phosphine	
Synonyms: Hydrogen phosphide	
Physical State: Gas	Formula: (F ₃ C) ₂ PH
Viscosity: NA	Mol. Weight: 169.99
Specific Gravity: NA	Halogen Content: 0%
Waste Number: P096	Hazard Code: H
Hazardous Organic Constituents: NA	

Chemical Name: Phosphorothioic acid, O,O-dimethyl O-[p-((dimethylamino)-sulfonyl)phenyl]ester	
Synonyms: Famphur	
Physical State: Solid	Formula: C ₁₀ H ₁₆ NO ₅ PS ₂
Viscosity: NA	Mol. Weight: 325.36
Specific Gravity: NA	Halogen Content: 0%
Waste Number: P097	Hazard Code: H
Hazardous Organic Constituents: Phosphorothioic acid	
Chemical Name: Potassium Cyandie	
Synonyms: NA	
Physical State: NA	Formula: KCN
Viscosity: NA	Mol. Weight: 65.12
Specific Gravity: NA	Halogen Content: 0%
Waste Number: P098	Hazard Code: NA
Hazardous Organic Constituents: NA	
Chemical Name: Potassium Silver Cyanide	
Synonyms: NA	
Physical State: NA	Formula: C ₂ AgN ₂ K
Viscosity: NA	Mol. Weight: 199.01
Specific Gravity: NA	Halogen Content: 0%
Waste Number: P099	Hazard Code: NA
Hazardous Organic Constituents: NA	
Chemical Name: Propanenitrile	
Synonyms: Ethyl cyanide	
Physical State: Liquid	Formula: CH ₃ CH ₂ CN
Viscosity: 0.624 cP @ 15° C	Mol. Weight: 55.08
Specific Gravity: 0.783 @ 21° C	Halogen Content: 0%
Waste Number: P101	Hazard Code: H
Hazardous Organic Constituents: Propanenitrile	
Chemical Name: 2-Propyn-1-ol	
Synonyms: (Propargyl alcohol)	
Physical State: Liquid	Formula: HC=CCH ₂ OH
Viscosity: NA	Mol. Weight: 56.1
Specific Gravity: 0.9715 @ 20° C	Halogen Content: 0%
Waste Number: P102	Hazard Code: H
Hazardous Organic Constituents: 2-Propyn-1-ol	

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Chemical Name: Selenourea	
Synonyms: Carbamimidoselenoic acid	
Physical State: NA	Formula: NH ₂ CSeNH ₂
Viscosity: NA	Mol. Weight: 123.02
Specific Gravity: NA	Halogen Content: 0%
Waste Number: P103	Hazard Code: H
Hazardous Organic Constituents: Selenourea	
Chemical Name: Silver Cyanide	
Synonyms: NA	
Physical State: NA	Formula: AgCN
Viscosity: NA	Mol. Weight: 133.90
Specific Gravity: NA	Halogen Content: 0%
Waste Number: P104	Hazard Code: H
Hazardous Organic Constituents: NA	
Chemical Name: Sodium azide	
Synonyms: NA	
Physical State: NA	Formula: NaN ₃
Viscosity: NA	Mol. Weight: 65.01
Specific Gravity: NA	Halogen Content: 0%
Waste Number: P105	Hazard Code: H
Hazardous Organic Constituents: NA	
Chemical Name: Sodium Cyanide	
Synonyms: NA	
Physical State: NA	Formula: NaCN
Viscosity: NA	Mol. Weight: 49.02
Specific Gravity: NA	Halogen Content: 0%
Waste Number: P106	Hazard Code: H
Hazardous Organic Constituents: NA	
Chemical Name: Strontium Sulfide	
Synonyms: NA	
Physical State: NA	Formula: SrS
Viscosity: NA	Mol. Weight: 119.70
Specific Gravity: NA	Halogen Content: 0%
Waste Number: P107	Hazard Code: H
Hazardous Organic Constituents: NA	

Chemical Name: Strychnidin-10-one, and salts	
Synonyms: Strychnine and salts	
Physical State: NA	Formula: C ₂₁ H ₂₂ N ₂ O ₂
Viscosity: NA	Mol. Weight: 334.45
Specific Gravity: NA	Halogen Content: 0%
Waste Number: P108	Hazard Code: H
Hazardous Organic Constituents: NA	
Chemical Name: Tetraethyldithiopyrophosphate	
Synonyms: Dithiopyrophosphoric acid, tetraethyl ester	
Physical State: Liquid	Formula: (C ₂ H ₅ O ₄)P ₂ OS ₂
Viscosity: NA	Mol. Weight: 322.
Specific Gravity: NA	Halogen Content: 0%
Waste Number: P109	Hazard Code: H
Hazardous Organic Constituents: Tetraethyldithio...	
Chemical Name: Plumbane, tetraethyl-	
Synonyms: Tetraethyl lead	
Physical State:	Formula: (C ₂ H ₅) ₄ Pb
Viscosity: NA	Mol. Weight: 323.44
Specific Gravity: NA	Halogen Content: 0%
Waste Number: P110	Hazard Code: H
Hazardous Organic Constituents: Plumbane, tetraethyl-	
Chemical Name: Pyrophosphoric acid, tetraethyl ester	
Synonyms: Tetraethylphrophosphate	
Physical State: Liquid	Formula: (C ₂ H ₅ O) ₄ P ₂ O ₃
Viscosity: NA	Mol. Weight: 290.19
Specific Gravity: 1.18	Halogen Content: 0%
Waste Number: P111	Hazard Code: H
Hazardous Organic Constituents: Pyrophosphoric acid,...	
Chemical Name: Methane, Tetranitro	
Synonyms: Tetranitromethane	
Physical State: NA	Formula: C(NO ₂) ₄
Viscosity: NA	Mol. Weight: 196.03
Specific Gravity: 1.6380	Halogen Content: 80%
Waste Number: P112	Hazard Code: R
Hazardous Organic Constituents: Tetranitro methane	

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Chemical Name: Thallic oxide	
Synonyms: Thallium (III) oxide	
Physical State: NA	Formula: Tl ₂ O ₃
Viscosity: NA	Mol. Weight: 456.78
Specific Gravity: NA	Halogen Content: 0%
Waste Number: P113	Hazard Code: H
Hazardous Organic Constituents: NA	
Chemical Name: Thallium(I) selenite	
Synonyms: NA	
Physical State: NA	Formula: NA
Viscosity: NA	Mol. Weight: NA
Specific Gravity: NA	Halogen Content: NA
Waste Number: P114	Hazard Code: H
Hazardous Organic Constituents: NA	
Chemical Name: Thallium(1) sulfate	
Synonyms: NA	
Physical State: NA	Formula: Tl ₂ SO ₄
Viscosity: NA	Mol. Weight: 504.85
Specific Gravity: NA	Halogen Content: 0%
Waste Number: P115	Hazard Code: H
Hazardous Organic Constituents: NA	
Chemical Name: Hydrazinecarbothioamide	
Synonyms: Thiosemicarbazide	
Physical State: Solid	Formula: NH ₂ CSNHNH ₂
Viscosity: NA	Mol. Weight: 91.14
Specific Gravity: NA	Halogen Content: 0%
Waste Number: P116	Hazard Code: H
Hazardous Organic Constituents: Hydrazinecarbothioamide	
Chemical Name: Trichloromethanethiol	
Synonyms: Methanethio, trichloro-	
Physical State: NA	Formula: NA
Viscosity: NA	Mol. Weight: NA
Specific Gravity: NA	Halogen Content: NA
Waste Number: P118	Hazard Code: H
Hazardous Organic Constituents: Trichloromethanethiol	

Chemical Name: Vanadic acid, ammonium salt	
Synonyms: Ammonium vanadate	
Physical State: NA	Formula: O ₃ VH ₄ N
Viscosity: NA	Mol. Weight: 116.99
Specific Gravity: NA	Halogen Content: 0%
Waste Number: P119	Hazard Code: H
Hazardous Organic Constituents: NA	
Chemical Name: Vanadium pentoxide	
Synonyms: Vanadium (V) oxide	
Physical State: NA	Formula: V ₂ O ₅
Viscosity: NA	Mol. Weight: 181.90
Specific Gravity: NA	Halogen Content: 0%
Waste Number: P120	Hazard Code: H
Hazardous Organic Constituents: NA	
Chemical Name: Zinc Cyanide	
Synonyms: NA	
Physical State: NA	Formula: Zn(CN) ₂
Viscosity: NA	Mol. Weight: 117.42
Specific Gravity: NA	Halogen Content: 0%
Waste Number: P121	Hazard Code: H
Hazardous Organic Constituents: NA	
Chemical Name: Zinc phosphide	
Synonyms: NA	
Physical State: Solid	Formula: Zn ₃ P ₂
Viscosity: NA	Mol. Weight: 258.09
Specific Gravity: 4.55	Halogen Content: 0%
Waste Number: P122	Hazard Code: H
Hazardous Organic Constituents: NA	
Chemical Name: Toxaphene	
Synonyms: NA	
Physical State: Solid	Formula: C ₁₀ H ₁₀ Cl ₈
Viscosity: NA	Mol. Weight: unknown
Specific Gravity: 1.65	Halogen Content: unknown
Waste Number: P123	Hazard Code: H
Hazardous Organic Constituents: Toxaphene	

Chemical Name: Carbofuran	
Synonyms: 7-Benzofuranol, 2,3-dihydro-2, 2-dimethyl-, methylcarbamate	
Physical State: Crystalline Solid	Formula: C ₁₂ H ₁₅ NO ₃
Viscosity: NA	Mol. Weight: 221.28
Specific Gravity: 1.180 @ 20°/20°	Halogen Content: 0%
Waste Number: P127	Hazard Code: H
Hazardous Organic Constituents:	
Chemical Name: Mexacarbate	
Synonyms: Phenol, 4-(dimethylamino)-3,5-dimethyl-, methylcarbamate (ester)	
Physical State: Crystals	Formula: C ₁₂ H ₁₈ N ₂ O ₂
Viscosity: NA	Mol. Weight: 222.32
Specific Gravity: NA	Halogen Content: 0%
Waste Number: P128	Hazard Code: H
Hazardous Organic Constituents:	
Chemical Name: Tirpate	
Synonyms: 1,3-Dithiolane-2-carboxaldehyde, 2,4-dimethyl-, O-[methylamino)-carbonyl]oxime	
Physical State: NA	Formula: C ₈ H ₁₄ N ₂ O ₂ S ₂
Viscosity: NA	Mol. Weight: 234.3
Specific Gravity: NA	Halogen Content: 0%
Waste Number: P185	Hazard Code: H
Hazardous Organic Constituents:	
Chemical Name: Physostigmine salicylate	
Synonyms: 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 methyl carbamate ester (1:1)	
Physical State: NA	Formula: C ₁₅ H ₂₁ N ₃ O ₂ •C ₇ H ₆ O ₃
Viscosity: NA	Mol. Weight: 413.52
Specific Gravity: NA	Halogen Content: 0%
Waste Number: P188	Hazard Code: H
Hazardous Organic Constituents:	
Chemical Name: Carbosulfan	
Synonyms: Carbamic acid, [(dibutylamino)-thio]methyl-,2,3-dihydro-2,2-dimethyl-7-benzofuranyl ester	
Physical State: NA	Formula: C ₂₀ H ₃₂ N ₂ O ₃ S
Viscosity: NA	Mol. Weight: 380.54
Specific Gravity: NA	Halogen Content: 0%
Waste Number: P189	Hazard Code: H
Hazardous Organic Constituents:	

Chemical Name: Metolcarb	
Synonyms: Carbamic acid, methyl-, 3-methylphenyl ester	
Physical State: Solid	Formula: C ₉ H ₁₁ NO ₂
Viscosity: NA	Mol. Weight: 165.21
Specific Gravity: 1.1064 @ 30/4	Halogen Content: 0%
Waste Number: P190	Hazard Code: H
Hazardous Organic Constituents:	
Chemical Name: Dimetilan	
Synonyms: Carbamic acid, dimethyl-, 1-[(dimethyl-amino)carbonyl]-5-methyl-1H-pyrazol-3-yl ester	
Physical State: NA	Formula: C ₁₀ H ₁₆ N ₄ O ₃
Viscosity: NA	Mol. Weight: 240.26
Specific Gravity: NA	Halogen Content: 0%
Waste Number: P191	Hazard Code: H
Hazardous Organic Constituents:	
Chemical Name: Isolan	
Synonyms: Carbamic acid, dimethyl-, 3-methyl-1-(1-methylethyl)-1H-pyrazol-5-yl ester	
Physical State: NA	Formula: C ₁₀ H ₁₇ N ₃ O ₂
Viscosity: NA	Mol. Weight: 211.30
Specific Gravity: NA	Halogen Content: 0%
Waste Number: P192	Hazard Code: H
Hazardous Organic Constituents:	
Chemical Name: Oxamyl	
Synonyms: Ethanimidothioc acid, 2-(dimethylamino)-N•[[[(methylamino)carbonyl]oxy]-2-oxo-, methyl ester	
Physical State: Crystalline Solid	Formula: C ₇ H ₁₃ N ₃ O ₃ S
Viscosity: NA	Mol. Weight: 219.29
Specific Gravity: NA	Halogen Content: 0%
Waste Number: P194	Hazard Code: H
Hazardous Organic Constituents:	
Chemical Name: Manganese dimethyldithiocarbamate	
Synonyms: Manganese, bis(dimethylcarbamo dithioato-S,S')-	
Physical State: NA	Formula: C ₆ H ₁₂ MnN ₂ S ₄
Viscosity: NA	Mol. Weight: 295.4
Specific Gravity: NA	Halogen Content: 0%
Waste Number: P196	Hazard Code: H
Hazardous Organic Constituents:	

Chemical Name: Formparanate	
Synonyms: Methanimidamide, N,N-dimethyl-N ¹ -[2-methyl-4-[[methylamino)carbonyl]oxy] phenyl]-	
Physical State: NA	Formula: C ₁₂ H ₁₇ N ₃ O ₂
Viscosity: NA	Mol. Weight: 235.29
Specific Gravity: NA	Halogen Content: 0%
Waste Number: P197	Hazard Code: H
Hazardous Organic Constituents:	
Chemical Name: Formetanate hydrochloride	
Synonyms: Methanimidamide, N,N-dimethyl-N ¹ -[3-[[[(methylamino)-carbonyl]oxy] phenyl]-, monohydrochloride	
Physical State: Solid	Formula: C ₁₁ H ₁₅ N ₃ O ₂ •ClH
Viscosity: NA	Mol. Weight: 257.75
Specific Gravity: NA	Halogen Content: Cl - 13.8%
Waste Number: P198	Hazard Code: H
Hazardous Organic Constituents:	
Chemical Name: Methiocarb	
Synonyms: Phenol, (3,5-dimethyl-4-(methylthio)-, methylcarbamate	
Physical State: Solid	Formula: C ₁₁ H ₁₅ NO ₂ S
Viscosity: NA	Mol. Weight: 225.33
Specific Gravity: NA	Halogen Content: 0%
Waste Number: P199	Hazard Code: H
Hazardous Organic Constituents:	
Chemical Name: Promecarb	
Synonyms: Phenol, 3-methyl-5-(1-methylethyl)-, methyl carbamate	
Physical State: Solid	Formula: C ₁₂ H ₁₇ NO ₂
Viscosity: NA	Mol. Weight: 207.27
Specific Gravity: NA	Halogen Content: 0%
Waste Number: P201	Hazard Code: H
Hazardous Organic Constituents:	
Chemical Name: mm-Cumenyl methylcarbamate	
Synonyms: 3-Isopropylphenyl N-methylcarbamate; Phenol, (3,5-dimethyl-4-(methylthio)-methyl carbamate	
Physical State: Solid	Formula: C ₁₁ H ₁₅ NO ₂
Viscosity: NA	Mol. Weight: 193.25
Specific Gravity: NA	Halogen Content: 0%
Waste Number: P202	Hazard Code: H
Hazardous Organic Constituents:	

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Chemical Name: Aldicarb Sulfone	
Synonyms: Propanal, 2-methyl-2-(methyl-sulfonyl)-, O-[methylamino)carbonyl] oxime	
Physical State: Solid	Formula: C ₇ H ₁₄ N ₂ O ₄ S
Viscosity: NA	Mol. Weight: 222.26
Specific Gravity: NA	Halogen Content: 0%
Waste Number: P203	Hazard Code: H
Hazardous Organic Constituents:	
Chemical Name: Phsostigmine	
Synonyms: Pyrrolo[2,3-b]indol-5-ol, 1,2,3,3a,8,8a-hexahydro-1, 3a, 8-trimethyl-, methyl carbamate (ester), (3aS-cis)-	
Physical State: Solid	Formula: C ₁₅ H ₂ N ₃ O ₂
Viscosity: NA	Mol. Weight: 275.39
Specific Gravity: NA	Halogen Content: 0%
Waste Number: P204	Hazard Code: H
Hazardous Organic Constituents:	
Chemical Name: Ziram	
Synonyms: Zinc, bis(dimethylcarbamo dithioato-S,S ¹)-,	
Physical State: Solid	Formula: C ₆ H ₁₂ N ₂ S ₄ •Zn
Viscosity: NA	Mol. Weight: 305.81
Specific Gravity: 1.66	Halogen Content: 0%
Waste Number: P205	Hazard Code: H
Hazardous Organic Constituents:	

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Chemical Name: Acetaldehyde	
Synonyms: Ethanal	
Physical State: Liquid	Formula: CH ₃ CHO
Viscosity: 0.244 cP	Mol. Weight: 44.05
Specific Gravity: 0.7827 @ 20° C	Halogen Content: 0%
Waste Number: U001	Hazard Code: I
Hazardous Organic Constituents: Acetaldehyde	
Chemical Name: Acetone	
Synonyms: 2-Propanone	
Physical State: Liquid	Formula: CH ₃ COCH ₃
Viscosity: 0.337 cP @ 15° C	Mol. Weight: 58.08
Specific Gravity: 0.7972 @ 15° C	Halogen Content: 0%
Waste Number: U002	Hazard Code: I
Hazardous Organic Constituents: Acetone	
Chemical Name: Acetonitrile	
Synonyms: (Ethanenitrile) (Methyl cyanide)	
Physical State: Liquid	Formula: CH ₃ CN
Viscosity: 0.375 cP	Mol. Weight: 41.05
Specific Gravity: 0.79 @ 15° C	Halogen Content: 0%
Waste Number: U003	Hazard Code: I, T
Hazardous Organic Constituents: Acetonitrile	
Chemical Name: Acetophenone	
Synonyms: Ethanone, 1-phenyl-	
Physical State: Liquid	Formula: C ₆ H ₅ COCH ₃
Viscosity: 1.642 cP @ 25° C	Mol. Weight: 120.16
Specific Gravity: 1.03	Halogen Content: 0%
Waste Number: U004	Hazard Code: T
Hazardous Organic Constituents: Acetophenone	
Chemical Name: 2-Acetylaminofluorene	
Synonyms: (Acetamide, N-9H-fluoren-2-yl-) (2-Acetamido fluorene)	
Physical State: Powder	Formula: C ₁₅ H ₁₃ O
Viscosity: NA	Mol. Weight: 223.3
Specific Gravity: NA	Halogen Content: 0%
Waste Number: U005	Hazard Code: T
Hazardous Organic Constituents: 2-Acetyl...	

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Chemical Name: Acetyl Chloride	
Synonyms: Ethanoyl Chloride	
Physical State: NA	Formula: CH ₃ COCl
Viscosity: NA	Mol. Weight: 78.50
Specific Gravity: NA	Halogen Content: 45%
Waste Number: U006	Hazard Code: C, R, T
Hazardous Organic Constituents: Acetyl Chloride	
Chemical Name: Acrylamide	
Synonyms: 2-Propenamide	
Physical State: Solid	Formula: CH ₂ =CHCONH ₂
Viscosity: NA	Mol. Weight: 71.08
Specific Gravity: 1.122 @ 30° C	Halogen Content: 0%
Waste Number: U007	Hazard Code: T
Hazardous Organic Constituents: Acrylamide	
Chemical Name: Acrylic acid	
Synonyms: 2-Propenoic acid	
Physical State: Liquid	Formula: CH ₂ =CHCO ₂ H
Viscosity: NA	Mol. Weight: 72.06
Specific Gravity: 1.062	Halogen Content: 0%
Waste Number: U008	Hazard Code: I
Hazardous Organic Constituents: Acrylic acid	
Chemical Name: Acrylonitrile	
Synonyms: 2-Propenenitrile	
Physical State: Liquid	Formula: CH ₂ =CHCN
Viscosity: 0.35 cP	Mol. Weight: 53.06
Specific Gravity: 0.806 @ 20° C	Halogen Content: 0%
Waste Number: U009	Hazard Code: T
Hazardous Organic Constituents: Acrylonitrile	
Chemical Name: Azirino(2',3':3,4)pyrrolo(1,2-a)indole-4,7-dione,6-amino-8- [[(aminocarbonyl)oxy)methyl]-1,1a,2,8,8a,8b-hexahydro-8a-methoxy-5-methyl-	
Synonyms: Mitomycin C	
Physical State: Solid	Formula: C ₁₅ H ₁₈ N ₄ O ₅
Viscosity: NA	Mol. Weight: 334.33
Specific Gravity: NA	Halogen Content: 0%
Waste Number: U010	Hazard Code: T
Hazardous Organic Constituents: Azirino...	

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Chemical Name: Amitrole	
Synonyms: 3-Amino-1H-1,2,4-triazole	
Physical State: Solid	Formula: C ₂ H ₄ N ₄
Viscosity: NA	Mol. Weight: 84.08
Specific Gravity: NA	Halogen Content: 0%
Waste Number: U011	Hazard Code: T
Hazardous Organic Constituents: Amitrole	
Chemical Name: Aniline	
Synonyms: Benzenamine	
Physical State: Liquid	Formula: C ₆ H ₅ NH ₂
Viscosity: 4.40 cP	Mol. Weight: 93.13
Specific Gravity: 1.02 @ 20° C	Halogen Content: 0%
Waste Number: U012	Hazard Code: I, T
Hazardous Organic Constituents: Aniline	
Chemical Name: Auramine	
Synonyms: Benzenamine, 4,4'-(carbonimidoyl)bis(N,N-dimethyl)-	
Physical State: Solid	Formula: C ₁₇ H ₂₁ N ₃
Viscosity: NA	Mol. Weight: 267.4
Specific Gravity: NA	Halogen Content: 0%
Waste Number: U014	Hazard Code: T
Hazardous Organic Constituents: Auramine	
Chemical Name: Azaserine	
Synonyms: L-Serine, diazoacetate (ester)	
Physical State: NA	Formula: C ₅ H ₇ N ₃ O ₄
Viscosity: NA	Mol. Weight: 173.15
Specific Gravity: NA	Halogen Content: 0%
Waste Number: U015	Hazard Code: T
Hazardous Organic Constituents: Azaserine	
Chemical Name: 3,4-Benzacridine	
Synonyms: Benz[c]acridine	
Physical State: Solid	Formula: C ₁₇ H ₁₁ N
Viscosity: NA	Mol. Weight: 229.3
Specific Gravity: NA	Halogen Content: 0%
Waste Number: U016	Hazard Code: T
Hazardous Organic Constituents: 3,4-Benzacridine	

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Chemical Name: Benzal chloride	
Synonyms: Benzene, (dichloromethyl)-	
Physical State: NA	Formula: C ₆ H ₅ CHCl ₂
Viscosity: NA	Mol. Weight: 161.03
Specific Gravity: NA	Halogen Content: 44%
Waste Number: U017	Hazard Code: T
Hazardous Organic Constituents: Benzal chloride	
Chemical Name: Benz[a]anthracene	
Synonyms: 1,2-Benzathracene	
Physical State: Solid	Formula: C ₁₈ H ₁₂
Viscosity: NA	Mol. Weight: 228.30
Specific Gravity: NA	Halogen Content: 0%
Waste Number: U018	Hazard Code: T
Hazardous Organic Constituents: Benz[a]anthracene	
Chemical Name: Benzene	
Synonyms: NA	
Physical State: Liquid	Formula: C ₆ H ₆
Viscosity: 0.60 cP @ 25° C	Mol. Weight: 78.12
Specific Gravity: 0.8794 @ 20° C	Halogen Content: 0%
Waste Number: U019	Hazard Code: I, T
Hazardous Organic Constituents: Benzene	
Chemical Name: Benzenesulfonic acid chloride	
Synonyms: Benzenesulfonyl chloride	
Physical State: NA	Formula: C ₆ H ₅ SO ₂ Cl
Viscosity: NA	Mol. Weight: 176.62
Specific Gravity: NA	Halogen Content: 20%
Waste Number: U020	Hazard Code: C, R
Hazardous Organic Constituents: Benzenesulfonic acid chloride	
Chemical Name: Benzidine	
Synonyms: (1,1'-Biphenyl)-4,4'-diamine	
Physical State: Solid	Formula: NH ₂ C ₆ H ₄ C ₆ H ₄ NH ₂
Viscosity: NA	Mol. Weight: 184.23
Specific Gravity: 1.250 @ 20° C	Halogen Content: 0%
Waste Number: U021	Hazard Code: T
Hazardous Organic Constituents: Benzidine	

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Chemical Name: Benzo[a]pyrene	
Synonyms: 3,4-Benzopyrene	
Physical State: Solid	Formula: C ₂₀ H ₁₂
Viscosity: NA	Mol. Weight: 252.31
Specific Gravity: NA	Halogen Content: 0%
Waste Number: U022	Hazard Code: T
Hazardous Organic Constituents: Benzo[a]pyrene	
Chemical Name: Benzene, (trichloromethyl)	
Synonyms: Benzotrichloride	
Physical State: NA	Formula: C ₆ H ₅ CCl ₃
Viscosity: NA	Mol. Weight: 195.48
Specific Gravity: NA	Halogen Content: 54.4%
Waste Number: U023	Hazard Code: C, R, T
Hazardous Organic Constituents: Benzene, (trichloromethyl)	
Chemical Name: Bis(2-chloroethoxy)methane	
Synonyms: (Ethane, 1,1'-[methylenebis(oxy)]bis[2-chloro]-) (Dichloroethyl formal)	
Physical State: Liquid	Formula: CH ₂ (OCH ₂ CH ₂ Cl) ₂
Viscosity: NA	Mol. Weight: 173.05
Specific Gravity: 1.234 @ 20° C	Halogen Content: Cl - 40.98%
Waste Number: U024	Hazard Code: T
Hazardous Organic Constituents: Bis(2-chloroethoxy)...	
Chemical Name: Dichloroethyl ether	
Synonyms: (Ethane, 1-1'-oxybis[2-chloro]-)	
Physical State: Liquid	Formula: (ClCH ₂ CH ₂) ₂ O
Viscosity: NA	Mol. Weight: 143.02
Specific Gravity: 1.222 @ 20° C	Halogen Content: Cl - 49.6%
Waste Number: U025	Hazard Code: T
Hazardous Organic Constituents: Dichloroethyl ether	
Chemical Name: Chlornaphazine	
Synonyms: 2-Naphthylamine, N,N'-bis(2-chloroethyl)-	
Physical State: Solid	Formula: C ₁₄ H ₁₅ Cl ₂ N
Viscosity: NA	Mol. Weight: 268.20
Specific Gravity: NA	Halogen Content: Cl - 26.4%
Waste Number: U026	Hazard Code: T
Hazardous Organic Constituents: Chlornaphazine	

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Chemical Name: Bis(2-chloroisopropyl) ether	
Synonyms: Propane, 2,2'oxybis[2-chloro]-	
Physical State: NA	Formula: C ₆ H ₂ Cl ₂ O
Viscosity: NA	Mol. Weight: 171.08
Specific Gravity: NA	Halogen Content: Cl - 41.4%
Waste Number: U027	Hazard Code: T
Hazardous Organic Constituents: Bis(2-chloroisopropyl)ether	
Chemical Name: Bis(2-ethylhexyl)phthalate	
Synonyms: 1,2-Benzenedicarboxylic acid, [bis(2-ethylhexyl)]ester	
Physical State: NA	Formula: C ₂₄ H ₃₈ O ₄
Viscosity: NA	Mol. Weight: 390.54
Specific Gravity: NA	Halogen Content: 0%
Waste Number: U028	Hazard Code: T
Hazardous Organic Constituents: Bis(2-ethyl...	
Chemical Name: Methane, bromo-	
Synonyms: Methyl bromide	
Physical State: Gas	Formula: CH ₃ Br
Viscosity: NA	Mol. Weight: 94.94
Specific Gravity: 1.732 @ 0° C	Halogen Content: Br - 84.2%
Waste Number: U029	Hazard Code: T
Hazardous Organic Constituents: Methane, bromo-	
Chemical Name: 4-Bromophenyl phenyl ether	
Synonyms: Benzene, 1-bromo-4-phenoxy-	
Physical State: NA	Formula: NA
Viscosity: NA	Mol. Weight: NA
Specific Gravity: NA	Halogen Content: NA
Waste Number: U030	Hazard Code: T
Hazardous Organic Constituents: 4-Bromophenyl phenyl ether	
Chemical Name: 1-Butanol	
Synonyms: (n-Butyl alcohol)	
Physical State: Liquid	Formula: CH ₃ (CH ₂) ₂ CH ₂ OH
Viscosity: 38 SSU; 3.379 cP @ 15° C	Mol. Weight: 74.12
Specific Gravity: 0.80978 @ 20° C	Halogen Content: 0%
Waste Number: U031	Hazard Code: I
Hazardous Organic Constituents: 1-Butanol	

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Chemical Name: Chromic acid, calcium salt	
Synonyms: Calcium chromate	
Physical State: NA	Formula: CaCrO ₄ 2H ₂ O
Viscosity: NA	Mol. Weight: 192.09
Specific Gravity: NA	Halogen Content: 0%
Waste Number: U032	Hazard Code: T
Hazardous Organic Constituents: NA	
Chemical Name: Carbon oxyfluoride	
Synonyms: Carbonyl fluoride	
Physical State: NA	Formula: CF ₂ O
Viscosity: NA	Mol. Weight: 66.07
Specific Gravity: NA	Halogen Content: 0%
Waste Number: U033	Hazard Code: R, T
Hazardous Organic Constituents: NA	
Chemical Name: Chloral	
Synonyms: Acetaldehyde, trichloro-	
Physical State: Liquid	Formula: Cl ₃ CCHO
Viscosity: NA	Mol. Weight: 147.39
Specific Gravity: 1.51 @ 20° C	Halogen Content: 72.1%
Waste Number: U034	Hazard Code: T
Hazardous Organic Constituents: Chloral	
Chemical Name: Chlorambucil	
Synonyms: Butanoic acid, 4-[bis(2-chloroethyl)amino]benzene-	
Physical State: Solid	Formula: C ₁₄ H ₁₉ Cl ₂ NO ₂
Viscosity: NA	Mol. Weight: 304.23
Specific Gravity: NA	Halogen Content: Cl - 23.31%
Waste Number: U035	Hazard Code: T
Hazardous Organic Constituents: Chlorambucil	
Chemical Name: Chlordane, technical	
Synonyms: 4,7-Methanoindan, 1,2,4,5,6,7,8,8-octachloro-3a,4,7,7a-tetrahydro-	
Physical State: Liquid	Formula: C ₁₀ H ₆ Cl ₈
Viscosity: 69 poises @ 25° C	Mol. Weight: 409.80
Specific Gravity: 1.57-1.63 @ 15.5° C	Halogen Content: Cl - 69.22%
Waste Number: U036	Hazard Code: T
Hazardous Organic Constituents: Chlordane, technical	

Chemical Name: Chlorobenzene	
Synonyms: Benzene, chloro-	
Physical State: Liquid	Formula: C ₆ H ₅ Cl
Viscosity: 0.799 cP	Mol. Weight: 112.56
Specific Gravity: 1.113 @ 15° C	Halogen Content: Cl - 31.5%
Waste Number: U037	Hazard Code: T
Hazardous Organic Constituents: Chlorobenzene	
Chemical Name: Ethyl-4,4'-dichlorobenzilate-	
Synonyms: Benzeneacetic acid, 4-chloro-alpha-(4-chlorophenyl)-alpha-hydroxy, ethyl ester	
Physical State: Liquid	Formula: (C ₆ H ₄ Cl) ₂ C(OH)COOC ₂ H ₅
Viscosity: NA	Mol. Weight: 325.2
Specific Gravity: NA	Halogen Content: Cl - 21.8%
Waste Number: U038	Hazard Code: T
Hazardous Organic Constituents: Ethyl-4,4'-...	
Chemical Name: 4-Chloro-m-cresol	
Synonyms: Phenol, 4-chloro-3-methyl-	
Physical State: Solid	Formula: C ₇ H ₇ ClO
Viscosity: NA	Mol. Weight: 142.58
Specific Gravity: NA	Halogen Content: Cl - 24.9%
Waste Number: U039	Hazard Code: T
Hazardous Organic Constituents: 4-Chloro-m-cresol	
Chemical Name: 1-Chloro-2,3-epoxypropane	
Synonyms: (Oxirane, 2-(chloromethyl)-) (Epichlorohydrin)	
Physical State: NA	Formula: C ₃ H ₅ OCl
Viscosity: NA	Mol. Weight: 92.52
Specific Gravity: 1.1761 @ 20° C	Halogen Content: Cl - 38.32%
Waste Number: U041	Hazard Code: T
Hazardous Organic Constituents: 1-Chloro-2,3-...	
Chemical Name: 2-Chloroethyl vinyl ether	
Synonyms: Ethene, (2-chloroethoxy)-	
Physical State: Liquid	Formula: ClCH ₂ CH ₂ OCH=CH ₂
Viscosity: NA	Mol. Weight: 106.55
Specific Gravity: 1.053	Halogen Content: Cl - 33.3%
Waste Number: U042	Hazard Code: T
Hazardous Organic Constituents: 2-Chloroethyl...	

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Chemical Name: Ethene, chloro-	
Synonyms: Vinyl chloride	
Physical State: Gas	Formula: CH ₂ =CHCl
Viscosity: NA	Mol. Weight: 62.50
Specific Gravity: 0.9195 @ 15° C	Halogen Content: Cl - 56.7%
Waste Number: U043	Hazard Code: T
Hazardous Organic Constituents: Ethene, chloro-	
Chemical Name: Chloroform	
Synonyms: Methane, trichloro-	
Physical State: Liquid	Formula: CHCl ₃
Viscosity: 0.596 cP @ 15° C	Mol. Weight: 119.38
Specific Gravity: 1.498 @ 15° C	Halogen Content: 89.0%
Waste Number: U044	Hazard Code: T
Hazardous Organic Constituents: Chloroform	
Chemical Name: Methane, chloro-	
Synonyms: Methyl chloride	
Physical State: Gas	Formula: CH ₃ Cl
Viscosity: NA	Mol. Weight: 50.49
Specific Gravity: 0.918 @ 20° C	Halogen Content: Cl - 70.2%
Waste Number: U045	Hazard Code: I, T
Hazardous Organic Constituents: Methane, Chloro-	
Chemical Name: Chloromethyl methyl ether	
Synonyms: Methane, chloromethoxy-	
Physical State: Liquid	Formula: CH ₃ OCH ₂ Cl
Viscosity: NA	Mol. Weight: 80.51
Specific Gravity: 1.06	Halogen Content: Cl - 44.03%
Waste Number: U046	Hazard Code: T
Hazardous Organic Constituents: Chloromethyl	
Chemical Name: beta-Chloronaphthalene	
Synonyms: (Naphthalene, 2-chloro-)	
Physical State: Solid	Formula: ClC ₁₀ H ₇
Viscosity: NA	Mol. Weight: 162.62
Specific Gravity: 1.14 @ 71° C	Halogen Content: 21.8%
Waste Number: U047	Hazard Code: T
Hazardous Organic Constituents: beta-Chloronaphthalene	

Chemical Name: o-Chlorophenol	
Synonyms: (Phenol, 2-chloro-)	
Physical State: Liquid	Formula: ClC ₆ H ₄ OH
Viscosity: 2.25 cP @ 45° C	Mol. Weight: 128.56
Specific Gravity: 1.256 @ 25° C	Halogen Content: 27.8%
Waste Number: U048	Hazard Code: T
Hazardous Organic Constituents: o-Chlorophenol	
Chemical Name: 4-Chloro-o-toluidine, hydrochloride	
Synonyms: (Benzenamine, 4-chloro-2-methyl-)	
Physical State: Solid	Formula: CH ₃ C ₆ H ₃ (Cl)NH ₂ HCl
Viscosity: NA	Mol. Weight: 178.06
Specific Gravity: NA	Halogen Content: Cl - 39.8%
Waste Number: U049	Hazard Code: T
Hazardous Organic Constituents: 4-Chloro-...	
Chemical Name: Chrysene	
Synonyms: 1,2-Benzphenanthrene	
Physical State: Solid	Formula: C ₁₈ H ₁₂
Viscosity: NA	Mol. Weight: 228.30
Specific Gravity: 1.274 @ 20° C	Halogen Content: 0%
Waste Number: U050	Hazard Code: T
Hazardous Organic Constituents: Chrysene	
Chemical Name: Creosote	
Synonyms: NA	
Physical State: Liquid	Formula: A mixture of phenols
Viscosity: NA	Mol. Weight: NA
Specific Gravity: 1.07	Halogen Content: NA
Waste Number: U051	Hazard Code: T
Hazardous Organic Constituents: Creosote	
Chemical Name: Cresols	
Synonyms: Cresylic acid	
Physical State: Liquid	Formula: CH ₃ C ₆ H ₄ OH
Viscosity: o-Cresol 3.51 cP @ 46° C m-Cresol 24.67 cP @ 15° C p-Cresol 5.61 cP @ 46° C	Mol. Weight: 108.15
Specific Gravity: 1.030 - 1.038 @ 25° C	Halogen Content: 0%
Waste Number: U052	Hazard Code: T
Hazardous Organic Constituents: Cresols	

Chemical Name: Crotonaldehyde	
Synonyms: 2-Butenal	
Physical State: Liquid	Formula: CH ₃ CH=CHCHO
Viscosity: NA	Mol. Weight: 70.09
Specific Gravity: 0.853 @ 20° C	Halogen Content: 0%
Waste Number: U053	Hazard Code: T
Hazardous Organic Constituents: Crotonaldehyde	
Chemical Name: Cumene	
Synonyms: Benzene, (1-methylethyl)-	
Physical State: Liquid	Formula: (CH ₃) ₂ CHC ₆ H ₅
Viscosity: NA	Mol. Weight: 120.20
Specific Gravity: 0.864 @ 20° C	Halogen Content: 0%
Waste Number: U055	Hazard Code: I
Hazardous Organic Constituents: Cumene	
Chemical Name: Cyclohexane	
Synonyms: Benzene, hexahydro-	
Physical State: Liquid	Formula: C ₆ H ₁₂
Viscosity: 0.98 cP	Mol. Weight: 84.16
Specific Gravity: 0.7791 @ 20° C	Halogen Content: 0%
Waste Number: U056	Hazard Code: I
Hazardous Organic Constituents: Cyclohexane	
Chemical Name: Cyclohexanone	
Synonyms: NA	
Physical State: Liquid	Formula: CO(CH ₂) ₄ CH ₂
Viscosity: 2.45 cP @ 15° C	Mol. Weight: 98.15
Specific Gravity: 0.9478 @ 20° C	Halogen Content: 0%
Waste Number: U057	Hazard Code: I
Hazardous Organic Constituents: Cyclohexanone	
Chemical Name: Cyclophosphamide	
Synonyms: (2H-1,3,2-Oxazophosphorine 2-oxide, 2-[bis(2-chloroethyl)amino] tetrahydro-) (Endoxin)	
Physical State: Solid	Formula: C ₇ H ₁₅ Cl ₂ N ₂ O ₂ P
Viscosity: NA	Mol. Weight: 261.10
Specific Gravity: NA	Halogen Content: Cl - 27.16%
Waste Number: U058	Hazard Code: T
Hazardous Organic Constituents: Cyclophosphamide	

Chemical Name: Daunomycin	
Synonyms: 5,12-Naphthacenedione, (8S-cis)-8-acetyl-10-[3-amino-2,3,6-trideoxy- α -L-lyxo-hexopyranosyl)oxyl]-7,8,9,10-tetrahydro-6,8,11-trihydroxy-1-methoxy-	
Physical State: Solid	Formula: $C_{27}H_{28}O_{10}N$
Viscosity: NA	Mol. Weight: 526.6
Specific Gravity: NA	Halogen Content: 0%
Waste Number: U059	Hazard Code: T
Hazardous Organic Constituents: Daunomycin	
Chemical Name: DDD	
Synonyms: Dichlorodiphenyldichloroethane	
Physical State: Solid	Formula: $(ClC_6H_4)_2HCCHCl_2$
Viscosity: NA	Mol. Weight: 320.0
Specific Gravity: NA	Halogen Content: Cl - 44.3%
Waste Number: U060	Hazard Code: T
Hazardous Organic Constituents: DDD	
Chemical Name: DDT	
Synonyms: Dichlorodiphenyltrichloroethane	
Physical State: Solid	Formula: $(ClC_6H_4)_2CHCCl_3$
Viscosity: NA	Mol. Weight: 354.50
Specific Gravity: NA	Halogen Content: Cl - 50.0%
Waste Number: U061	Hazard Code: T
Hazardous Organic Constituents: DDT	
Chemical Name: Diallate	
Synonyms: S-(2,3-Dichloroallyl) diisopropylthiocarbamate	
Physical State: Liquid	Formula: $C_{10}H_{17}Cl_2NOS$
Viscosity: NA	Mol. Weight: 270.24
Specific Gravity: NA	Halogen Content: Cl - 26.24%
Waste Number: U062	Hazard Code: T
Hazardous Organic Constituents: Diallate	
Chemical Name: Dibenz(a,h)anthracene	
Synonyms: (1,2:5,6-Dibenzanthracene)	
Physical State: Plates	Formula: $C_{22}H_{14}$
Viscosity: NA	Mol. Weight: 278.33
Specific Gravity: NA	Halogen Content: 0%
Waste Number: U063	Hazard Code: T
Hazardous Organic Constituents: Dibenz(a,h)anthracene	

Chemical Name: 1,2:7,8-Dibenzopyrene	
Synonyms: (Dibenzo(a,i)pyrene)	
Physical State: Solid, (needles)	Formula: C ₂₄ H ₁₄
Viscosity: NA	Mol. Weight: 302.38
Specific Gravity: NA	Halogen Content: 0%
Waste Number: U064	Hazard Code: T
Hazardous Organic Constituents: 1,2:7,8-Dibenzopyrene	
Chemical Name: 1,2-Dibromo-3-chloropropane	
Synonyms: (Nemagon)	
Physical State: Liquid	Formula: C ₃ H ₅ Br ₂ Cl
Viscosity: NA	Mol. Weight: 236.4
Specific Gravity: 2.09	Halogen Content: Br - 67.7% Cl - 15.0%
Waste Number: U066	Hazard Code: T
Hazardous Organic Constituents: 1,2-Dibromo-3-chloropropane	
Chemical Name: Ethane, 1,2-dibromo-	
Synonyms: (Ethylene dibromide) (Glycol dibromide) (1,2-Dibromoethane)	
Physical State: Liquid	Formula: CH ₂ BrCH ₂ Br
Viscosity: 1.490 cP @ 30° C	Mol. Weight: 187.88
Specific Gravity: 2.1707 @ 25° C	Halogen Content: Br - 85.16%
Waste Number: U067	Hazard Code: T
Hazardous Organic Constituents: Ethane, 1,2-dibromo-	
Chemical Name: Methane, dibromo-	
Synonyms: (Methylene bromide)	
Physical State: Liquid	Formula: CH ₂ Br ₂
Viscosity: NA	Mol. Weight: 173.9
Specific Gravity: 2.485 @ 25° C	Halogen Content: Br - 92%
Waste Number: U068	Hazard Code: T
Hazardous Organic Constituents: Methane, dibromo-	
Chemical Name: 1,2-Benzenedicarboxylic acid, dibutyl ester	
Synonyms: (Di-n-butyl phthalate) (Dibutyl-o-phthalate)	
Physical State: Liquid	Formula: C ₆ H ₄ (COOC ₄ H ₉) ₂
Viscosity: NA	Mol. Weight: 278.3
Specific Gravity: 1.047-1.049 @ 20° C	Halogen Content: 0%
Waste Number: U069	Hazard Code: T
Hazardous Organic Constituents: 1,2-Benzenedicarboxylic...	

Chemical Name: Benzene, 1,2-dichloro-	
Synonyms: (o-Dichlorobenzene)	
Physical State: Liquid	Formula: C ₆ H ₄ Cl ₂
Viscosity: 1.324 cP	Mol. Weight: 147.0
Specific Gravity: 1.307 @ 20° C	Halogen Content: Cl - 48.3%
Waste Number: U070	Hazard Code: T
Hazardous Organic Constituents: Benzene, 1,2-dichloro-	
Chemical Name: Benzene, 1,3-dichloro-	
Synonyms: (m-Dichlorobenzene)	
Physical State: Liquid	Formula: C ₆ H ₄ Cl ₂
Viscosity: 1.04 cP	Mol. Weight: 147.0
Specific Gravity: 1.288 @ 20° C	Halogen Content: Cl - 48.3%
Waste Number: U071	Hazard Code: T
Hazardous Organic Constituents: Benzene, 1,3-dichloro-	
Chemical Name: Benzene, 1,4-dichloro-	
Synonyms: (p-Dichlorobenzene)	
Physical State: Crystals	Formula: C ₆ H ₄ Cl ₂
Viscosity: 0.720 cP @ 70° C	Mol. Weight: 147.0
Specific Gravity: 1.4581 @ 20.5° C	Halogen Content: Cl - 48.3%
Waste Number: U072	Hazard Code: T
Hazardous Organic Constituents: Benzene, 1,4-dichloro-	
Chemical Name: (1,1'-Biphenyl)-4,4'-diamine,3,3'-dichloro-	
Synonyms: (3,3'-Dichlorobenzidine)	
Physical State: Crystals	Formula: C ₁₂ H ₁₀ Cl ₂ N ₂
Viscosity: NA	Mol. Weight: 253.1
Specific Gravity: NA	Halogen Content: Cl - 28.1%
Waste Number: U073	Hazard Code: T
Hazardous Organic Constituents: (1,1'-Biphenyl)...	
Chemical Name: 2-Butene, 1,4-dichloro-	
Synonyms: NA	
Physical State: Liquid	Formula: CH ₂ ClCHCClCH ₃
Viscosity: NA	Mol. Weight: 125.01
Specific Gravity: 1.83 @ 25° C	Halogen Content: Cl - 56.8%
Waste Number: U074	Hazard Code: I, T
Hazardous Organic Constituents: 2-Butene, 1,4-dichloro-	

Chemical Name: Methane, dichlorofluoro	
Synonyms: Dichlorofluoromethane, Freon	
Physical State: NA	Formula: Cl ₂ CHF
Viscosity: NA	Mol. Weight: 102
Specific Gravity: 1.405	Halogen Content: 87%
Waste Number: U075	Hazard Code: T
Hazardous Organic Constituents: dichlorofluoromethane	
Chemical Name: Ethane, 1,1-dichloro-	
Synonyms: (Ethylidene chloride) (1,1-Dichloroethane)	
Physical State: Liquid	Formula: CH ₃ CHCl ₂
Viscosity: 0.505 cP @ 25° C	Mol. Weight: 99.0
Specific Gravity: 1.174 @ 25° C	Halogen Content: Cl - 71.72%
Waste Number: U076	Hazard Code: T
Hazardous Organic Constituents: Ethane, 1-1-dichloro-	
Chemical Name: Ethane, 1-2-dichloro-	
Synonyms: (Ethylene dichloride) (1,2-Dichloroethane)	
Physical State: Liquid	Formula: CH ₂ ClCH ₂ Cl
Viscosity: 0.887 cP	Mol. Weight: 99.0
Specific Gravity: 1.257 @ 20° C	Halogen Content: Cl - 71.72%
Waste Number: U077	Hazard Code: T
Hazardous Organic Constituents: Ethane, 1-2-dichloro-	
Chemical Name: 1-1-Dichloroethylene	
Synonyms: (Vinylidene chloride)	
Physical State: Liquid	Formula: CH ₂ CCl ₂
Viscosity: NA	Mol. Weight: 97.0
Specific Gravity: 1.213 @ 20° C	Halogen Content: Cl - 73.2%
Waste Number: U078	Hazard Code: T
Hazardous Organic Constituents: 1,1-Dichloroethylene	
Chemical Name: 1,2-Dichloroethylene	
Synonyms: (cis- or trans-dichloroethylene) (Acetylene dichloride)	
Physical State: Liquid	Formula: ClCHCHCl
Viscosity: NA	Mol. Weight: 97.0
Specific Gravity: 1.2743 @ 25° C	Halogen Content: Cl - 73.2%
Waste Number: U079	Hazard Code: T
Hazardous Organic Constituents: 1,2-Dichloroethylene	

Chemical Name: Methane, dichloro-	
Synonyms: (Methylene chloride)	
Physical State: Liquid	Formula: CH ₂ Cl ₂
Viscosity: 0.449 cP	Mol. Weight: 84.94
Specific Gravity: 1.3266 @ 20° C	Halogen Content: Cl - 83.6%
Waste Number: U080	Hazard Code: T
Hazardous Organic Constituents: Methane, dichloro-	
Chemical Name: 2,4-Dichlorophenol	
Synonyms: NA	
Physical State: Crystlas	Formula: C ₆ H ₃ OHCl ₂
Viscosity: NA	Mol. Weight: 163.0
Specific Gravity: 1.383 @ 60° C	Halogen Content: Cl - 43.6%
Waste Number: U081	Hazard Code: T
Hazardous Organic Constituents: 2,4-Dichlorophenol	
Chemical Name: 2,6-Dichlorophenol	
Synonyms: NA	
Physical State: Liquid	Formula: C ₆ H ₃ OHCl ₂
Viscosity: NA	Mol. Weight: 163.0
Specific Gravity: 1.383 @ 60° C	Halogen Content: Cl - 43.6%
Waste Number: U082	Hazard Code: T
Hazardous Organic Constituents: 2,6-Dichlorophenol	
Chemical Name: 1,2-Dichloropropane	
Synonyms: (Propylene dichloride)	
Physical State: Liquid	Formula: CH ₂ ClCHClCH ₃
Viscosity: NA	Mol. Weight: 113.0
Specific Gravity: 1.1593 @ 20° C	Halogen Content: Cl - 62.8%
Waste Number: U083	Hazard Code: T
Hazardous Organic Constituents: 1,2-Dichloropropane	
Chemical Name: 1,3-Dichloropropane	
Synonyms: (Trimethylene chloride)	
Physical State: Liquid	Formula: CH ₂ ClCH ₂ CH ₂ Cl
Viscosity: NA	Mol. Weight: 113.0
Specific Gravity: 1.201 @ 15° C	Halogen Content: Cl - 62.8%
Waste Number: U084	Hazard Code: T
Hazardous Organic Constituents: 1,3-Dichloropropane	

Chemical Name: 2,2-Bioxirane	
Synonyms: (Diepoxy butane) (Erythritol Anhydride)	
Physical State: Liquid	Formula: C ₄ H ₆ O ₂
Viscosity: NA	Mol. Weight: 86.09
Specific Gravity: 1.113	Halogen Content: 0%
Waste Number: U085	Hazard Code: I, T
Hazardous Organic Constituents: 2,2-Bioxirane	
Chemical Name: N,N-Diethylhydrazine	
Synonyms: NA	
Physical State: Liquid	Formula: C ₄ H ₁₂ N ₂
Viscosity: NA	Mol. Weight: 88.2
Specific Gravity: 0.797 @ 26° C	Halogen Content: 0%
Waste Number: U086	Hazard Code: T
Hazardous Organic Constituents: N,N-Diethylhydrazine	
Chemical Name: 0,0-Diethyl-S-methyl-dithiophosphate	
Synonyms: (Phosphorodithioic acid, 0,0-diethyl-, S-methyl ester)	
Physical State: Liquid	Formula: C ₅ H ₁₃ O ₂ PS ₂
Viscosity: NA	Mol. Weight: 200
Specific Gravity: NA	Halogen Content: 0%
Waste Number: U087	Hazard Code: T
Hazardous Organic Constituents: 0,0-Diethyl-S-methyl-...	
Chemical Name: 1,2-Benzendicarboxylic acid, diethyl ester	
Synonyms: (Diethyl-p-phthalate)	
Physical State: Liquid	Formula: C ₆ H ₄ (COOC ₂ H ₅) ₂
Viscosity: NA	Mol. Weight: 222.2
Specific Gravity: 1.117-1.121 @ 20° C	Halogen Content: 0%
Waste Number: U088	Hazard Code: T
Hazardous Organic Constituents: 1,2-Benzenedicarboxylic...	
Chemical Name: Diethylstilbestrol	
Synonyms: (0,0-Diethyl-0-(2-paraziny) phosphorothioate)	
Physical State: Crystals	Formula: C ₁₈ H ₂₀ O ₂
Viscosity: NA	Mol. Weight: 268.3
Specific Gravity: NA	Halogen Content: 0%
Waste Number: U089	Hazard Code: T
Hazardous Organic Constituents: Diethylstilbestrol	

Chemical Name: Benzene, 1-2-methylenedioxy-4-propyl-	
Synonyms: (Dihydrosafrole)	
Physical State: Liquid	Formula: C ₁₀ H ₁₂ O ₂
Viscosity: NA	Mol. Weight: 164.2
Specific Gravity: NA	Halogen Content: 0%
Waste Number: U090	Hazard Code: T
Hazardous Organic Constituents: Benzene,...	
Chemical Name: (1,1'-Biphenyl)-4,4'-diamine, 3,3'-dimethoxy-	
Synonyms: (3,3'-Dimethoxybenzidine) (Dianisidine)	
Physical State: Crystals	Formula: [NH ₂ (OCH ₃)C ₆ H ₃] ₂
Viscosity: NA	Mol. Weight: 244.29
Specific Gravity: NA	Halogen Content: 0%
Waste Number: U091	Hazard Code: T
Hazardous Organic Constituents: (1,1'-Biphenyl)-...	
Chemical Name: Methanamine, N-methyl-	
Synonyms: (Dimethylamine)	
Physical State: Gas	Formula: (CH ₃) ₂ NH
Viscosity: 0.207 cP	Mol. Weight: 45.08
Specific Gravity: 0.6804 @ 0° C	Halogen Content: 0%
Waste Number: U092	Hazard Code: I
Hazardous Organic Constituents: Methanamine, N-methyl-	
Chemical Name: Benzenamine, N,N-dimethyl-4-(phenylazo)-	
Synonyms: (p-Dimethylaminoazobenzene)	
Physical State: Crystalline	Formula: C ₁₄ H ₁₅ N ₃
Viscosity: NA	Mol. Weight: 225.28
Specific Gravity: NA	Halogen Content: 0%
Waste Number: U093	Hazard Code: T
Hazardous Organic Constituents: Benzenamine,...	
Chemical Name: 1,2-Benzanthracene, 7,12-dimethyl-	
Synonyms: 7,12-Dimethylbenz[a]anthracene	
Physical State: Plates, leaflets	Formula: C ₂₀ H ₁₆
Viscosity: NA	Mol. Weight: 256.33
Specific Gravity: NA	Halogen Content: 0%
Waste Number: U094	Hazard Code: T
Hazardous Organic Constituents: 1,2-Benzanthracene...	

Chemical Name: (1,1'-Biphenyl)-4,4'diamine, 3,3'-dimethyl-	
Synonyms: (3,3'-Dimethylbenzidine) (o-Tolidine)	
Physical State: Crystalline	Formula: C ₁₄ H ₁₆ N ₂
Viscosity: NA	Mol. Weight: 212.28
Specific Gravity: NA	Halogen Content: 0%
Waste Number: U095	Hazard Code: T
Hazardous Organic Constituents: 1,1'-Biphenyl-...	
Chemical Name: alpha, alpha-Dimethylbenzlyhydroperoxide	
Synonyms: Hydroperoxide, 1-methyl, 1-phenylethyl	
Physical State: NA	Formula: C ₉ H ₁₂ O ₂
Viscosity: NA	Mol. Weight: 152.21
Specific Gravity: NA	Halogen Content: 0%
Waste Number: U096	Hazard Code: R
Hazardous Organic Constituents: NA	
Chemical Name: Carbamoyl chloride, dimethyl-	
Synonyms: (N,N-Dimethyl carbamyl chloride)	
Physical State: Liquid	Formula: (CH ₃) ₂ NCOCI
Viscosity: NA	Mol. Weight: 107.5
Specific Gravity: 1.678 @ 20° C	Halogen Content: Cl - 33%
Waste Number: U097	Hazard Code: T
Hazardous Organic Constituents: Carbamoyl Chloride, dimethyl	
Chemical Name: 1,1-Dimethylhydrazine	
Synonyms: (Dimazine) (Hydrazine, 1,1-dimethyl-)	
Physical State: Liquid	Formula: (CH ₃) ₂ NNH ₂
Viscosity: NA	Mol. Weight: 60.1
Specific Gravity: 0.782 @ 25° C	Halogen Content: 0%
Waste Number: U098	Hazard Code: T
Hazardous Organic Constituents: 1,1-Dimethylhydrazine	
Chemical Name: 1,2-Dimethylhydrazine	
Synonyms: (Hydrazine, 1-2-dimethyl-)	
Physical State: Liquid	Formula: (CH ₃) ₂ NNH ₂
Viscosity: NA	Mol. Weight: 60.1
Specific Gravity: 0.8274 @ 20° C	Halogen Content: 0%
Waste Number: U099	Hazard Code: T
Hazardous Organic Constituents: 1,2-Dimethylhydrazine	

Chemical Name: 2,4-Dimethylphenol	
Synonyms: (Xylenol) (Phenol, 2,4-dimethyl-)	
Physical State: Liquid	Formula: (CH ₃) ₂ C ₆ H ₃ OH
Viscosity: NA	Mol. Weight: 122.16
Specific Gravity: 1.0362	Halogen Content: 0%
Waste Number: U101	Hazard Code: T
Hazardous Organic Constituents: 2,4-Dimethylphenol	
Chemical Name: 1,2-Benzenedicarboxylic acid, dimethyl ester	
Synonyms: (Dimethylphthalate) (DMP)	
Physical State: Liquid	Formula: C ₆ H ₄ (COOCH ₃) ₂
Viscosity: NA	Mol. Weight: 194.18
Specific Gravity: 1.189 @ 25° C	Halogen Content: 0%
Waste Number: U102	Hazard Code: T
Hazardous Organic Constituents: 1,2-Benzenedicarboxylic...	
Chemical Name: Dimethyl sulfate	
Synonyms: Sulfuric acid, dimethyl ester	
Physical State: Liquid	Formula: (CH ₃) ₂ SO ₄
Viscosity: NA	Mol. Weight: 126.13
Specific Gravity: 1.3322 @ 20° C	Halogen Content: 0%
Waste Number: U103	Hazard Code: T
Hazardous Organic Constituents: Dimethyl sulfate	
Chemical Name: Benzene, 1-methyl-2,4-dinitro-	
Synonyms: (2,4-Dinitrotoluene)	
Physical State: Solid	Formula: (NO ₂) ₂ C ₆ H ₃ CH ₃
Viscosity: NA	Mol. Weight: 182.13
Specific Gravity: 1.521 @ 15° C	Halogen Content: 0%
Waste Number: U105	Hazard Code: T
Hazardous Organic Constituents: Benzene,...	
Chemical Name: Benzene, 1-methyl-2,6-dinitro-	
Synonyms: (2,6-Dinitrotoluene)	
Physical State: Liquid	Formula: (NO ₂) ₂ C ₆ H ₃ CH ₃
Viscosity: NA	Mol. Weight: 182.13
Specific Gravity: NA	Halogen Content: 0%
Waste Number: U106	Hazard Code: T
Hazardous Organic Constituents: Benzene,...	

Chemical Name: 1,2-Benzenedicarboxylic acid, di-n-octyl ester	
Synonyms: (Di-n-octyl phthalate)	
Physical State: Liquid	Formula: $C_6H_4[CO_2CH_2CH(C_2H_5)C_4H_9]_2$
Viscosity: NA	Mol. Weight: 390.6
Specific Gravity: 0.9861 @ 20° C	Halogen Content: 0%
Waste Number: U107	Hazard Code: T
Hazardous Organic Constituents: 1,2-Benzenedicarboxylic...	
Chemical Name: 1,4-Diethylene dioxide	
Synonyms: (1,4-Dioxane) (Diethylene oxide)	
Physical State: Liquid	Formula: $C_4H_8O_2$
Viscosity: 0.0120 POISE @ 25° C	Mol. Weight: 88.10
Specific Gravity: 1.0353 @ 20° C	Halogen Content: 0%
Waste Number: U108	Hazard Code: T
Hazardous Organic Constituents: 1,4-Diethylene dioxide	
Chemical Name: 1,2-Diphenylhydrazine	
Synonyms: NA	
Physical State: Crystals	Formula: $C_{12}H_{12}N_2$
Viscosity: NA	Mol. Weight: 184.23
Specific Gravity: NA	Halogen Content: 0%
Waste Number: U109	Hazard Code: T
Hazardous Organic Constituents: 1,2-Diphenylhydrazine	
Chemical Name: Dipropylamine	
Synonyms: NA	
Physical State: Liquid	Formula: $(C_3H_7)_2NH$
Viscosity: 0.534 cP	Mol. Weight: 101.19
Specific Gravity: 0.741 @ 20° C	Halogen Content: 0%
Waste Number: U110	Hazard Code: I
Hazardous Organic Constituents: Dipropylamine	
Chemical Name: Di-n-propylnitrosamine	
Synonyms: (N-Nitroso-n-propylamine)	
Physical State: Liquid	Formula: $(C_3H_7)_2N-NO$
Viscosity: NA	Mol. Weight: 130.19
Specific Gravity: NA	Halogen Content: 0%
Waste Number: U111	Hazard Code: T
Hazardous Organic Constituents: Di-N-propylnitrosamine	

Chemical Name: Ethyl acetate	
Synonyms: (Acetic ether) (Ethyl ester) (Ethyl ethanoate)	
Physical State: Liquid	Formula: CH ₃ COOC ₂ H ₅
Viscosity: .49 ctsk @ 20° C; 0.426 cP	Mol. Weight: 88.10
Specific Gravity: 0.8946 @ 25° C	Halogen Content: 0%
Waste Number: U112	Hazard Code: I
Hazardous Organic Constituents: Ethyl acetate	
Chemical Name: Ethyl acrylate	
Synonyms: (Ethyl propenoate) (2-Propenoic acid, ethyl ester)	
Physical State: Liquid	Formula: CH ₂ CHCOOC ₂ H ₅
Viscosity: NA	Mol. Weight: 100.11
Specific Gravity: 0.941 @ 20° C	Halogen Content: 0%
Waste Number: U113	Hazard Code: I
Hazardous Organic Constituents: Ethyl acrylate	
Chemical Name: 1,2-Ethanediylbiscarbamodithioic acid	
Synonyms: Ethylenebis(dithiocarbamic acid), salts and esters	
Physical State: Liquid	Formula: C ₄ H ₈ O ₂ S ₂
Viscosity: NA	Mol. Weight: 152
Specific Gravity: NA	Halogen Content: 0%
Waste Number: U114	Hazard Code: T
Hazardous Organic Constituents: 1,2-Ethanediylbiscarbamodithioic acid	
Chemical Name: Ethylene oxide	
Synonyms: (1,2-Expoxyethane) (Oxirane)	
Physical State: Gas	Formula: (CH ₂) ₂ O
Viscosity: NA	Mol. Weight: 44.05
Specific Gravity: 0.8711 @ 20° C	Halogen Content: 0%
Waste Number: U115	Hazard Code: I, T
Hazardous Organic Constituents: Ethylene oxide	
Chemical Name: Ethylene thiourea	
Synonyms: (2-Imidazolidinethione)	
Physical State: Needles	Formula: C ₃ H ₆ N ₂ S
Viscosity: NA	Mol. Weight: 102.17
Specific Gravity: NA	Halogen Content: 0%
Waste Number: U116	Hazard Code: T
Hazardous Organic Constituents: Ethylene thiourea	

Chemical Name: Ethane, 1,1'-oxybis-	
Synonyms: (Ethyl ether) (Sulfuric ether)	
Physical State: Liquid	Formula: C ₂ H ₅ OC ₂ H ₅
Viscosity: NA	Mol. Weight: 74.12
Specific Gravity: 0.7135 @ 20° C	Halogen Content: 0%
Waste Number: U117	Hazard Code: I
Hazardous Organic Constituents: Ethane,1-1'-oxybis	
Chemical Name: Ethyl methacrylate	
Synonyms: (2-Propenoic acid, 2-methyl-, ethyl ester)	
Physical State: Liquid	Formula: H ₂ CCCH ₃ COOC ₂ H ₅
Viscosity: NA	Mol. Weight: 114.07
Specific Gravity: 0.911 @ 25° C	Halogen Content: 0%
Waste Number: U118	Hazard Code: T -
Hazardous Organic Constituents: Ethyl methacrylate	
Chemical Name: Ethyl methanesulfonate	
Synonyms: (Methanesulfonic acid, ethyl ester)	
Physical State: Liquid	Formula: CH ₃ CH ₂ OSO ₂ CH ₃
Viscosity: NA	Mol. Weight: 124.15
Specific Gravity: 1.15	Halogen Content: 0%
Waste Number: U119	Hazard Code: T
Hazardous Organic Constituents: Ethyl methanesulfonate	
Chemical Name: Benzo(j,k)fluorene	
Synonyms: (Fluoranthene)	
Physical State: Solid	Formula: C ₁₆ H ₁₀
Viscosity: NA	Mol. Weight: 202.24
Specific Gravity: NA	Halogen Content: 0%
Waste Number: U120	Hazard Code: T
Hazardous Organic Constituents: Benzo(j,k)fluorene	
Chemical Name: Methane, trichlorofluoro-	
Synonyms: (Fluorotrichloromethane)	
Physical State: Liquid	Formula: CCL ₃ F
Viscosity: NA	Mol. Weight: 137.38
Specific Gravity: 1.494 @ 17.2° C	Halogen Content: F - 13.8% Cl - 77.5%
Waste Number: U121	Hazard Code: T
Hazardous Organic Constituents: Methane, trichlorofluoro-	

Chemical Name: Formaldehyde	
Synonyms: (Methanal) (Methyl aldehyde) (Formalin)	
Physical State: Liquid	Formula: HCHO
Viscosity: NA	Mol. Weight: 30.03
Specific Gravity: 1.067 (air), 0.815 (water) @ - 20° C	Halogen Content: 0%
Waste Number: U122	Hazard Code: T
Hazardous Organic Constituents: Formladehyde	
Chemical Name: Formic acid	
Synonyms: (Methanoic acid)	
Physical State: Liquid	Formula: HCOOH
Viscosity: 31.7 SSU @ 20° C; 1.966 cP	Mol. Weight: 46.03
Specific Gravity: 12.220 @ 20° C	Halogen Content: 0%
Waste Number: U123	Hazard Code: C, T
Hazardous Organic Constituents: Formic acid	
Chemical Name: Furan	
Synonyms: (Furfuran) (Oxole)	
Physical State: Liquid	Formula: C ₄ H ₄ O
Viscosity: 0.380 cP	Mol. Weight: 68.07
Specific Gravity: 0.937 @ 20° C	Halogen Content: 0%
Waste Number: U124	Hazard Code: I
Hazardous Organic Constituents: Furan	
Chemical Name: 2-Furancarboxaldehyde	
Synonyms: (Furfural)	
Physical State: Liquid	Formula: C ₄ H ₃ OCHO
Viscosity: NA	Mol. Weight: 96.1
Specific Gravity: 1.161 @ 20° C	Halogen Content: 0%
Waste Number: U125	Hazard Code: I
Hazardous Organic Constituents: 2-Furancarboxaldehyde	
Chemical Name: Glycidylaldehyde	
Synonyms: NA	
Physical State: Liquid	Formula: OCH ₂ CHCH ₂ CHO
Viscosity: NA	Mol. Weight: 86.2
Specific Gravity: NA	Halogen Content: 0%
Waste Number: U126	Hazard Code: T
Hazardous Organic Constituents: Glycidylaldehyde	

Chemical Name: 1-Propanol, 2,3-epoxy	
Synonyms: (Glycidol)	
Physical State: Liquid	Formula: OCH ₂ CHCH ₂ OH
Viscosity: NA	Mol. Weight: 74.08
Specific Gravity: 1.11	Halogen Content: 0%
Waste Number: U126	Hazard Code: T
Hazardous Organic Constituents: Glycidol	
Chemical Name: Benzene, hexachloro-	
Synonyms: (Perchlorobenzene)	
Physical State: Crystalline	Formula: C ₆ Cl ₆
Viscosity: NA	Mol. Weight: 284.80
Specific Gravity: 1.57	Halogen Content: Cl - 74.8%
Waste Number: U127	Hazard Code: T
Hazardous Organic Constituents: Benzene, hexachloro-	
Chemical Name: 1,3-Butadiene, 1,1,2,3,4,4-hexachloro-	
Synonyms: (Hexachlorobutadiene)	
Physical State: Liquid	Formula: CCl ₂ =CCl-CCl=CCl ₂
Viscosity: NA	Mol. Weight: 260.76
Specific Gravity: NA	Halogen Content: Cl - 81.68%
Waste Number: U128	Hazard Code: T
Hazardous Organic Constituents: 1,3-Butadiene,...	
Chemical Name: Hexachlorocyclohexane	
Synonyms: (Lindane) (gamma-Benzene hexachloride) (gamma-Hexane)	
Physical State: Crystalline powder	Formula: C ₆ H ₆ Cl ₆
Viscosity: NA	Mol. Weight: 290.84
Specific Gravity: NA	Halogen Content: Cl - 73.2%
Waste Number: U129	Hazard Code: T
Hazardous Organic Constituents: Hexachlorocyclohexane	
Chemical Name: 1,3-Cyclopentadiene, 1,2,3,4,5,5-hexachloro-	
Synonyms: NA	
Physical State: Liquid	Formula: C ₅ Cl ₆
Viscosity: NA	Mol. Weight: 272.79
Specific Gravity: 1.715 @ 15.5° C	Halogen Content: Cl - 78.1%
Waste Number: U130	Hazard Code: T
Hazardous Organic Constituents: 1,3-Cyclopentadiene,...	

Chemical Name: Ethane, 1,1,1,2,2,2-hexachloro-	
Synonyms: (Carbon trichloride) (Carbon hexachloride) (Hexachloroethane)	
Physical State: Crystals	Formula: CCl ₃ CCl ₃
Viscosity: NA	Mol. Weight: 236.76
Specific Gravity: 2.091	Halogen Content: Cl - 89.96%
Waste Number: U131	Hazard Code: T
Hazardous Organic Constituents: 1,1,1,2,2,2-Hexachloroethane	
Chemical Name: Hexachlorophene	
Synonyms: (2,2'-methylenebis(3,4,6-trichlorophenol))	
Physical State: Crystals	Formula: C ₁₃ H ₈ Cl ₆ O ₂
Viscosity: NA	Mol. Weight: 406.9
Specific Gravity: NA	Halogen Content: Cl - 52.35%
Waste Number: U132	Hazard Code: T
Hazardous Organic Constituents: Hexachlorophene	
Chemical Name: Diamine	
Synonyms: Hydrazine	
Physical State: NA	Formula: H ₄ N ₂
Viscosity: NA	Mol. Weight: 32.06
Specific Gravity: NA	Halogen Content: 0%
Waste Number: U133	Hazard Code: R, T
Hazardous Organic Constituents: NA	
Chemical Name: Hydrofluoric acid	
Synonyms: (Hydrogen fluoride)	
Physical State: Liquid	Formula: HF
Viscosity: NA	Mol. Weight: 20.01
Specific Gravity: .987	Halogen Content: F-95%
Waste Number: U134	Hazard Code: C, T
Hazardous Organic Constituents: QHydrofluoric acid	
Chemical Name: Hydrogen Sulfide	
Synonyms: (Sulfuretted hydrogen)	
Physical State: Gas	Formula: H ₂ S
Viscosity: NA	Mol. Weight: 34.08
Specific Gravity: 1.539 @ 0° C	Halogen Content: 0%
Waste Number: U135	Hazard Code: T
Hazardous Organic Constituents: Hydrogen Sulfide	

Chemical Name: Cacodylic acid	
Synonyms: (Hydroxydimethyl arsine oxide)	
Physical State: Crystals, soluble in water	Formula: (CH ₃) ₂ AsOOH
Viscosity: NA	Mol. Weight: 138.0
Specific Gravity: NA	Halogen Content: 0%
Waste Number: U136	Hazard Code: T
Hazardous Organic Constituents: Cacodylic acid	
Chemical Name: Indeno[1,2,3-cd]pyrene	
Synonyms: (1,10-(1,2-Phenylene)pyrene)	
Physical State: Liquid	Formula: C ₂₈ H ₁₈
Viscosity: NA	Mol. Weight: 354
Specific Gravity: NA	Halogen Content: 0%
Waste Number: U137	Hazard Code: T
Hazardous Organic Constituents: Ideno (1,2,3-cd) pyrene	
Chemical Name: Methane, iodo-	
Synonyms: (Methyl iodide)	
Physical State: Liquid	Formula: CH ₃ I
Viscosity: 0.518 cP @ 15° C	Mol. Weight: 141.95
Specific Gravity: 2.279 @ 20° C	Halogen Content: I - 89.4%
Waste Number: U138	Hazard Code: T
Hazardous Organic Constituents: Methane, iodo-	
Chemical Name: Ferric dextran	
Synonyms: (Iron dextran) (Imferon) (Fenate)	
Physical State: Solid	Formula: NA
Viscosity: NA	Mol. Weight: NA
Specific Gravity: NA	Halogen Content: 2-5% Elemental iron
Waste Number: U139	Hazard Code: T
Hazardous Organic Constituents: Ferric dextran	
Chemical Name: Isobutyl alcohol	
Synonyms: (Isopropylcarbinol) (2-Methyl-1-propanol) (Isobutanol)	
Physical State: Liquid	Formula: (CH ₃) ₂ CHCH ₂ OH
Viscosity: NA	Mol. Weight: 74.12
Specific Gravity: 0.805 @ 20° C	Halogen Content: 0%
Waste Number: U140	Hazard Code: I, T
Hazardous Organic Constituents: Isobutyl alcohol	

Chemical Name: Benzene, 1,2-methylenedioxy-4-propenyl-	
Synonyms: (Isosafrole)	
Physical State: Liquid	Formula: C ₁₀ H ₁₀ O ₂
Viscosity: NA	Mol. Weight: 162.18
Specific Gravity: 1.1206 @ 20° C	Halogen Content: 0%
Waste Number: U141	Hazard Code: T
Hazardous Organic Constituents: Benzene,...	
Chemical Name: Kepone	
Synonyms: Decachlorooctahydro-1,3,4-metheno-2H-cyclobuta[c,d]-pentalen-2-one	
Physical State: NA	Formula: C ₁₀ Cl ₁₀ O
Viscosity: NA	Mol. Weight: 490.7
Specific Gravity: NA	Halogen Content: Cl - 72.2%
Waste Number: U142	Hazard Code: T
Hazardous Organic Constituents: Kepone	
Chemical Name: Lasiocarpine	
Synonyms: (2-Butenoic acid, 2-methyl-7-((2,3-dihydroxy-2-(1-methoxyethyl)-3-1-oxobutoxy)methyl)-2,3,5,7a-tetrahydro-1H-pyrrolizin-1-yl ester)	
Physical State: Leaflets	Formula: C ₂₁ H ₃₃ NO ₇
Viscosity: NA	Mol. Weight: 411.50
Specific Gravity: NA	Halogen Content: 0%
Waste Number: U143	Hazard Code: T
Hazardous Organic Constituents: Lasiocarpine	
Chemical Name: Lead acetate	
Synonyms: NA	
Physical State: Crystals	Formula: Pb(C ₂ H ₃ O) ₂ • 3H ₂ O
Viscosity: NA	Mol. Weight: 379.35
Specific Gravity: 2.55	Halogen Content: 0%
Waste Number: U144	Hazard Code: T
Hazardous Organic Constituents: Lead acetate	
Chemical Name: Lead phosphate	
Synonyms: Pholsphoric acid, lead salt	
Physical State: Crystals	Formula: Pb(PO ₃) ₂
Viscosity: NA	Mol. Weight: 365.17
Specific Gravity: NA	Halogen Content: 0%
Waste Number: U145	Hazard Code: T
Hazardous Organic Constituents: Lead phosphate	

Chemical Name: Lead subacetate	
Synonyms: (Monobasic lead acetate)	
Physical State: Powder	Formula: C ₄ H ₁₀ O ₈ Pb ₃
Viscosity: NA	Mol. Weight: 807.75
Specific Gravity: NA	Halogen Content: 0%
Waste Number: U146	Hazard Code: T
Hazardous Organic Constituents: Lead subacetate	
Chemical Name: 2,5-Furandione	
Synonyms: (Maleic anhydride) (Toxic anhydride)	
Physical State: Crystals	Formula: OCOCHCHCO
Viscosity: NA	Mol. Weight: 98.1
Specific Gravity: 1.48 @ 20° C	Halogen Content: 0%
Waste Number: U147	Hazard Code: T
Hazardous Organic Constituents: 2,5-Furandione	
Chemical Name: 1,2-Dihydro-3,6-pyridizinedione	
Synonyms: (Malononitrile) (Cyanoacetoneitrile) (Methylene dicyanide)	
Physical State: Powder	Formula: CH ₂ (CN) ₂
Viscosity: NA	Mol. Weight: 66.1
Specific Gravity: 1.049 @ 34° C	Halogen Content: 0%
Waste Number: U148	Hazard Code: T
Hazardous Organic Constituents: 1,2-Dihydro...	
Chemical Name: Malononitrile	
Synonyms: (Cyanocetonitrile) (Methylene dicyanide) (Propanedinitrile)	
Physical State: Powder	Formula: CH ₂ (CN) ₂
Viscosity: NA	Mol. Weight: 66.1
Specific Gravity: 1.049 @ 34° C	Halogen Content: 0%
Waste Number: U149	Hazard Code: T
Hazardous Organic Constituents: Malononitrile	
Chemical Name: Melphalan	
Synonyms: (4-(bis(2-chloroethyl)amino)-L-phenylaniline)	
Physical State: Needles	Formula: C ₁₃ H ₁₈ Cl ₂ N ₂ O ₂
Viscosity: NA	Mol. Weight: 305.20
Specific Gravity: NA	Halogen Content: Cl - 23.2%
Waste Number: U150	Hazard Code: T
Hazardous Organic Constituents: Melphalan	

Chemical Name: Mercury	
Synonyms: NA	
Physical State: NA	Formula: Hg
Viscosity: NA	Mol. Weight: 200.59
Specific Gravity: NA	Halogen Content: 0%
Waste Number: U151	Hazard Code: H
Hazardous Organic Constituents: NA	
Chemical Name: Methacrylonitrile	
Synonyms: (2-Methyl-2-propenenitrile)	
Physical State: Liquid	Formula: $\text{H}_2\text{C}=\text{C}(\text{CH}_3)\text{C}=\text{N}$
Viscosity: NA	Mol. Weight: 67.09
Specific Gravity: 0.805	Halogen Content: 0%
Waste Number: U152	Hazard Code: I, T
Hazardous Organic Constituents: Methacrylonitrile	
Chemical Name: Methanethiol	
Synonyms: (Methyl mercaptan)	
Physical State: Liquid or Gas	Formula: CH_3SH
Viscosity: NA	Mol. Weight: 48.10
Specific Gravity: 0.868 @ 20° C	Halogen Content: 0%
Waste Number: U153	Hazard Code: I, T
Hazardous Organic Constituents: Methanethiol	
Chemical Name: Methanol	
Synonyms: (Methyl alcohol)	
Physical State: Liquid	Formula: CH_3OH
Viscosity: 0.544 cP	Mol. Weight: 32.04
Specific Gravity: 0.7913 @ 20° C	Halogen Content: 0%
Waste Number: U154	Hazard Code: I
Hazardous Organic Constituents: Methanol	
Chemical Name: Methapyrilene	
Synonyms: (Pyridine, 2-((2-dimethylamino)ethyl)-2-phenylamino-	
Physical State: Liquid	Formula: $\text{C}_{14}\text{H}_{19}\text{N}_3\text{S}$
Viscosity: NA	Mol. Weight: 261.38
Specific Gravity: NA	Halogen Content: 0%
Waste Number: U155	Hazard Code: T
Hazardous Organic Constituents: Methapyrilene	

Chemical Name: Carbonochloridic acid, methyl ester	
Synonyms: (Methyl chlorocarbonate) (Methyl chloroformate) (Methyl chloro-methanoate)	
Physical State: Liquid	Formula: ClCOOCH ₃
Viscosity: NA	Mol. Weight: 94.50
Specific Gravity: 1.223 @ 20° C	Halogen Content: Cl - 37.6%
Waste Number: U156	Hazard Code: I,T
Hazardous Organic Constituents: Carbonochloridic acid,...	
Chemical Name: 3-Methylcholanthrene	
Synonyms: (1,2-Dihydro-3-methyl-benz(j)aceanthrylene)	
Physical State: Crystals	Formula: C ₂₁ H ₁₆
Viscosity: NA	Mol. Weight: 268.3
Specific Gravity: 1.28 @ 20° C	Halogen Content: 0%
Waste Number: U157	Hazard Code: T
Hazardous Organic Constituents: 3-Methylcholanthrene	
Chemical Name: Benzenamine, 4,4'-methylenebis(2-chloro-)	
Synonyms: (4,4'-Methylene-bis-(2-chloroaniline)) (3,3'-dichloro-4,4'-diamino-diphenylmethane)	
Physical State: Solid	Formula: C ₁₃ H ₁₂ Cl ₂ N ₂
Viscosity: NA	Mol. Weight: 267.15
Specific Gravity: NA	Halogen Content: Cl - 26.54%
Waste Number: U158	Hazard Code: T
Hazardous Organic Constituents: Benzenamine	
Chemical Name: 2-Butanone	
Synonyms: (Methyl ethyl ketone)	
Physical State: Liquid	Formula: CH ₃ COCH ₂ CH ₃
Viscosity: 0.423 cP @ 15° C	Mol. Weight: 72.10
Specific Gravity: 0.80615 @ 20° C	Halogen Content: 0%
Waste Number: U159	Hazard Code: I, T
Hazardous Organic Constituents: 2-Butanone	
Chemical Name: 2-Butanone peroxide	
Synonyms: Methyl ethyl ketone peroxide	
Physical State: NA	Formula: C ₈ H ₁₆ O ₄
Viscosity: NA	Mol. Weight: 176.24
Specific Gravity: NA	Halogen Content: 0%
Waste Number: U160	Hazard Code: R, T
Hazardous Organic Constituents: NA	

Chemical Name: Methyl isobutyl ketone	
Synonyms: (Hexone)	
Physical State: Liquid	Formula: (CH ₃) ₂ CHCH ₂ COCH ₃
Viscosity: NA	Mol. Weight: 100.2
Specific Gravity: 0.803	Halogen Content: 0%
Waste Number: U161	Hazard Code: I
Hazardous Organic Constituents: Methyl isobutyl ketone	
Chemical Name: Methyl methacrylate	
Synonyms: (2-propenoic acid, 2-methyl, methyl ester)	
Physical State: Liquid	Formula: CH ₂ C(CH ₃)COOCH ₃
Viscosity: 0.632 cP	Mol. Weight: 100.11
Specific Gravity: 0.936 @ 20° C	Halogen Content: 0%
Waste Number: U162	Hazard Code: I, T
Hazardous Organic Constituents: Methyl methacrylate	
Chemical Name: Guanidine, N-nitroso-N-methyl-N'nitro-	
Synonyms: NA	
Physical State: Liquid	Formula: C ₂ H ₅ N ₅ O ₃
Viscosity: NA	Mol. Weight: 147.1
Specific Gravity: NA	Halogen Content: 0%
Waste Number: U163	Hazard Code: T
Hazardous Organic Constituents: Guanidine,...	
Chemical Name: Methylthiouracil	
Synonyms: (2,3-Dihydro-6-methyl-2-thioxo-4-(1H)-pyrimidione)(4(1A)-Pyrimidione,...	
Physical State: Crystals	Formula: C ₅ H ₆ N ₂ OS
Viscosity: NA	Mol. Weight: 142.18
Specific Gravity: NA	Halogen Content: 0%
Waste Number: U164	Hazard Code: T
Hazardous Organic Constituents: Methylthiouracil	
Chemical Name: Naphthalene	
Synonyms: NA	
Physical State: Crystalline	Formula: C ₁₀ H ₈
Viscosity: 0.9 ctsk @ 80° C; 0.780 cP @ 100° C	Mol. Weight: 128.16
Specific Gravity: 1.162	Halogen Content: 0%
Waste Number: U165	Hazard Code: T
Hazardous Organic Constituents: Naphthalene	

Chemical Name: 1,4-Naphthalenediene	
Synonyms: (1,4-Naphthoquinone)	
Physical State: Powder	Formula: C ₁₀ H ₆ O ₂
Viscosity: NA	Mol. Weight: 158.2
Specific Gravity: NA	Halogen Content: 0%
Waste Number: U166	Hazard Code: T
Hazardous Organic Constituents: 1,4-Naphthalenediene	
Chemical Name: 1-Naphthylamine	
Synonyms: NA	
Physical State: Crystals	Formula: C ₁₀ H ₇ NH ₂
Viscosity: NA	Mol. Weight: 143.18
Specific Gravity: 1.131	Halogen Content: 0%
Waste Number: U167	Hazard Code: T
Hazardous Organic Constituents: 1-Naphthylamine	
Chemical Name: 2-Naphthylamine	
Synonyms: NA	
Physical State: Leaflets	Formula: C ₁₀ H ₇ NH ₂
Viscosity: NA	Mol. Weight: 143.18
Specific Gravity: 1.061 @ 98° C	Halogen Content: 0%
Waste Number: U168	Hazard Code: T
Hazardous Organic Constituents: 2-Naphthylamine	
Chemical Name: Benzene, nitro-	
Synonyms: (Nitrobenzene)	
Physical State: Liquid or Crystals	Formula: C ₆ H ₅ NO ₂
Viscosity: 1.634 cP	Mol. Weight: 123.11
Specific Gravity: 1.205 @ 25° C	Halogen Content: 0%
Waste Number: U169	Hazard Code: I, T
Hazardous Organic Constituents: Benzene, nitro-	
Chemical Name: p-Nitrophenol	
Synonyms: (4-Nitrophenol)	
Physical State: Crystals	Formula: C ₆ H ₅ NO ₃
Viscosity: NA	Mol. Weight: 139.1
Specific Gravity: 1.270 @ 120° C	Halogen Content: 0%
Waste Number: U170	Hazard Code: T
Hazardous Organic Constituents: p-Nitrophenol	

Chemical Name: 2-Nitropropane	
Synonyms: NA	
Physical State: Liquid	Formula: (CH ₃) ₂ CHNO ₂
Viscosity: 0.798 cP	Mol. Weight: 89.09
Specific Gravity: 0.992 @ 20° C	Halogen Content: 0%
Waste Number: U171	Hazard Code: I
Hazardous Organic Constituents: 2-Nitropropane	
Chemical Name: 1-Butanamine, N-butyl-N-nitroso-	
Synonyms: (N-Nitrosodi-n-butylamine)	
Physical State: Liquid	Formula: C ₈ H ₁₈ N ₂ O
Viscosity: NA	Mol. Weight: 158.3
Specific Gravity: NA	Halogen Content: 0%
Waste Number: U172	Hazard Code: T
Hazardous Organic Constituents: 1-Butanamine,...	
Chemical Name: Ethanol, 2,2'-(nitrosoimino)bis-	
Synonyms: (N-Nitrosodiethanolamine)	
Physical State: Liquid	Formula: C ₄ H ₁₀ N ₂ O ₃
Viscosity: NA	Mol. Weight: 134.13
Specific Gravity: NA	Halogen Content: 0%
Waste Number: U173	Hazard Code: T
Hazardous Organic Constituents: Ethanol,...	
Chemical Name: Ethanamine, N-ethyl-N-nitroso-	
Synonyms: (N-Nitrosodiethylamine)	
Physical State: Liquid	Formula: C ₄ H ₁₀ N ₂ O
Viscosity: NA	Mol. Weight: 102.14
Specific Gravity: 0.9422 @ 20° C	Halogen Content: 0%
Waste Number: U174	Hazard Code: T
Hazardous Organic Constituents: Ethanamine,...	
Chemical Name: Carbamide, N-ethyl-N-nitroso-	
Synonyms: (N-Nitroso-N-ethylurea)	
Physical State: Liquid	Formula: C ₃ H ₉ N ₃ O ₂
Viscosity: NA	Mol. Weight: 131
Specific Gravity: NA	Halogen Content: 0%
Waste Number: U176	Hazard Code: T
Hazardous Organic Constituents: Carbamide,...	

Chemical Name: Carbamide, N-methyl-N-nitroso-	
Synonyms: (N-nitroso-N-methylurea)	
Physical State: Powder	Formula: $\text{Cl}_3\text{NHCONHNO}$
Viscosity: NA	Mol. Weight: 89.1
Specific Gravity: NA	Halogen Content: 0%
Waste Number: U177	Hazard Code: T
Hazardous Organic Constituents: Carbamide,...	
Chemical Name: Carbamic acid, methylnitroso-ethyl ester	
Synonyms: (N-Nitroso-N-methylurethane)	
Physical State: Liquid	Formula: $\text{CH}_3\text{NNOCOOC}_2\text{H}_5$
Viscosity: NA	Mol. Weight: 132.2
Specific Gravity: NA	Halogen Content: 0%
Waste Number: U178	Hazard Code: T
Hazardous Organic Constituents: Carbamic acid,...	
Chemical Name: N-Nitrosopiperidine	
Synonyms: NA	
Physical State: Liquid	Formula: $\text{N-ON}(\text{C}_5\text{H}_{10}\text{N})$
Viscosity: NA	Mol. Weight: 114.15
Specific Gravity: NA	Halogen Content: 0%
Waste Number: U179	Hazard Code: T
Hazardous Organic Constituents: N-Nitrosopiperidine	
Chemical Name: N-Nitrosopyrrolidine	
Synonyms: (Pyrrole, tetrahydro-N-nitroso-)	
Physical State: Liquid	Formula: $\text{C}_4\text{H}_8\text{N}_2\text{O}$
Viscosity: NA	Mol. Weight: 100.1
Specific Gravity: 1.085	Halogen Content: 0%
Waste Number: U180	Hazard Code: T
Hazardous Organic Constituents: N-Nitrosopyrrolidine	
Chemical Name: Benzenamine, 2-methyl-5-nitro-	
Synonyms: (5-Nitro-o-toluidine)	
Physical State: Liquid	Formula: $\text{C}_7\text{H}_6\text{NH}_2\text{NO}_2$
Viscosity: NA	Mol. Weight: 168.15
Specific Gravity: 1.312	Halogen Content: 0%
Waste Number: U181	Hazard Code: T
Hazardous Organic Constituents: Benzenamine,...	

Chemical Name: Paraldehyde	
Synonyms: 1,3,5 trioxane, 2,4,6-trimethyl-	
Physical State: Liquid	Formula: OCH(CH ₃)OCHCH ₃ OCHCH ₃
Viscosity: NA	Mol. Weight: 132.16
Specific Gravity: .9943 @ 20° C	Halogen Content: 0%
Waste Number: U182	Hazard Code: T
Hazardous Organic Constituents: Paraldehyde	
Chemical Name: Benzene, pentachloro-	
Synonyms: NA	
Physical State: Liquid	Formula: C ₆ HCl ₅
Viscosity: NA	Mol. Weight: 250.5
Specific Gravity: NA	Halogen Content: Cl - 70.9%
Waste Number: U183	Hazard Code: T
Hazardous Organic Constituents: Benzene, pentachloro-	
Chemical Name: Ethane, pentachloro-	
Synonyms: (Pentalin)	
Physical State: Liquid	Formula: CHCl ₂ CCl ₃
Viscosity: 2.751 cP	Mol. Weight: 202.3
Specific Gravity: 1.6728 @ 25° C	Halogen Content: Cl - 87.74%
Waste Number: U184	Hazard Code: T
Hazardous Organic Constituents: Ethane, pentachloro-	
Chemical Name: Benzene, pentachloronito-	
Synonyms: NA	
Physical State: Solid	Formula: C ₆ Cl ₅ NO ₂
Viscosity: NA	Mol. Weight: 295.4
Specific Gravity: NA	Halogen Content: Cl - 60.1%
Waste Number: U185	Hazard Code: T
Hazardous Organic Constituents: Benzene, pentachloro-nitro-	
Chemical Name: 1-Methylbutadiene	
Synonyms: (1,3-Pentadiene) (Piperylene)	
Physical State: Liquid	Formula: CH ₂ CHCHCH ₃
Viscosity: NA	Mol. Weight: 68.13
Specific Gravity: 0.68 @ 20° C	Halogen Content: 0%
Waste Number: U186	Hazard Code: I
Hazardous Organic Constituents: 1-Methylbutadiene	

Chemical Name: Phenacetin	
Synonyms: NA	
Physical State: NA	Formula: CH ₃ CONHC ₆ H ₄ OC ₂ H ₅
Viscosity: NA	Mol. Weight: 179.22
Specific Gravity: NA	Halogen Content: 0%
Waste Number: U187	Hazard Code: H
Hazardous Organic Constituents: Phenacetin	
Chemical Name: Benzene, hydroxy-	
Synonyms: (Phenol) (Carbolic acid)	
Physical State: Crystal	Formula: C ₆ H ₅ OH
Viscosity: 4.076 cP	Mol. Weight: 94.11
Specific Gravity: 1.072	Halogen Content: 0%
Waste Number: U188	Hazard Code: T
Hazardous Organic Constituents: Benzene, hydroxy-	
Chemical Name: Phosphorus sulfide	
Synonyms: Sulfur Phosphide	
Physical State: NA	Formula: P ₂ S ₅
Viscosity: NA	Mol. Weight: 222.24
Specific Gravity: NA	Halogen Content: 0%
Waste Number: U189	Hazard Code: R
Hazardous Organic Constituents: NA	
Chemical Name: 1,2-Benzenedicarboxylic acid anhydride	
Synonyms: (Phthalic anhydride) (Phthalandione)	
Physical State: Crystalline	Formula: C ₈ H ₄ (CO) ₂ O
Viscosity: NA	Mol. Weight: 172.14
Specific Gravity: 1.527 @ 4° C	Halogen Content: 0%
Waste Number: U190	Hazard Code: T
Hazardous Organic Constituents: 1,2-Benzenedicarboxyl...	
Chemical Name: 2-Picoline	
Synonyms: (Pyridine, 2-methyl-)	
Physical State: Liquid	Formula: C ₅ H ₄ NCH ₃
Viscosity: NA	Mol. Weight: 93.13
Specific Gravity: 0.95 @ 15° C	Halogen Content: 0%
Waste Number: U191	Hazard Code: T
Hazardous Organic Constituents: 2-Picoline	

Chemical Name: 3,5-Dichloro-N-(1,1-dimethyl-2-propynyl) benzamide	
Synonyms: (Pronamide)	
Physical State: Liquid	Formula: C ₁₂ H ₁₁ OCl ₂ N
Viscosity: NA	Mol. Weight: 256
Specific Gravity: NA	Halogen Content: Cl - 27.73%
Waste Number: U192	Hazard Code: T
Hazardous Organic Constituents: 3,5-Dichloro-....	
Chemical Name: 1,2-Oxathiolane-2,2-dioxide	
Synonyms: (1,3 Propane sultone)	
Physical State: Liquid	Formula: C ₃ H ₆ SO ₃
Viscosity: NA	Mol. Weight: 122.2
Specific Gravity: NA	Halogen Content: 0%
Waste Number: U193	Hazard Code: T
Hazardous Organic Constituents: 1,2-Oxathiolane....	
Chemical Name: 1-Propanamine	
Synonyms: (n-Propylamine)	
Physical State: Liquid	Formula: CH ₃ CH ₂ CH ₂ NH ₂
Viscosity: NA	Mol. Weight: 59.11
Specific Gravity: 0.7191 @ 20° C	Halogen Content: 0%
Waste Number: U194	Hazard Code: I, T
Hazardous Organic Constituents: 1-Propanamine	
Chemical Name: Pyridine	
Synonyms: NA	
Physical State: Liquid	Formula: NCHCHCHCHCH
Viscosity: 0.952 cP	Mol. Weight: 79.10
Specific Gravity: 0.982	Halogen Content: 0%
Waste Number: U196	Hazard Code: T
Hazardous Organic Constituents: Pyridine	
Chemical Name: p-Benzoquinone	
Synonyms: (Quinone) (Chinone)	
Physical State: Crystals	Formula: OC ₆ H ₄ O
Viscosity: NA	Mol. Weight: 108.09
Specific Gravity: 1.318 @ 20° C	Halogen Content: 0%
Waste Number: U197	Hazard Code: T
Hazardous Organic Constituents: p-Benzoquinone	

Chemical Name: Reserpine	
Synonyms: (Yogimban-16-carboxylic acid, 11, 17-dimethoxy-18-[(3,4,5-trimethoxy-benzoyl)oxy]-,methyl ester) (Rivasin-Serparsine)	
Physical State: Powder	Formula: C ₃₃ H ₄₀ N ₂ O ₉
Viscosity: NA	Mol. Weight: 608.7
Specific Gravity: NA	Halogen Content: 0%
Waste Number: U200	Hazard Code: T
Hazardous Organic Constituents: Reserpine	
Chemical Name: 1,3-Benzenediol	
Synonyms: (Resorcinol) (m-Dihydroxybenzene)	
Physical State: Crystals	Formula: C ₆ H ₄ (OH) ₂
Viscosity: NA	Mol. Weight: 110.11
Specific Gravity: 1.285 @ 15° C	Halogen Content: 0%
Waste Number: U201	Hazard Code: T
Hazardous Organic Constituents: 1,3-Benzenediol	
Chemical Name: 1,2-Benzisothiazilin-3-one 1,1-dioxide	
Synonyms: (Saccharin) (Benzosulfonide)	
Physical State: Solid	Formula: C ₇ H ₅ NO ₃ S
Viscosity: NA	Mol. Weight: 183.2
Specific Gravity: 0.828	Halogen Content: 0%
Waste Number: U202	Hazard Code: T
Hazardous Organic Constituents: 1,2-Benzisothiazolin....	
Chemical Name: Benzene, 1,2-methylenedioxy-4-allyl-	
Synonyms: (Safrole)	
Physical State: Liquid	Formula: C ₃ H ₅ C ₆ H ₃ O ₂ CH ₂
Viscosity: NA	Mol. Weight: 162.18
Specific Gravity: 1.096 @ 20° C	Halogen Content: 0%
Waste Number: U203	Hazard Code: T
Hazardous Organic Constituents: Benzene,....	
Chemical Name: Selenious acid	
Synonyms: Selenium dioxide	
Physical State: Crystals	Formula: H ₂ SeO ₃
Viscosity: NA	Mol. Weight: 128.98
Specific Gravity: 3.004 @ 15° C	Halogen Content: 0%
Waste Number: U204	Hazard Code: T
Hazardous Organic Constituents: Selenious acid	

Chemical Name: Selenium disulfide	
Synonyms: Sulfur selenide	
Physical State: NA	Formula: S ₂ Se
Viscosity: NA	Mol. Weight: 143.08
Specific Gravity: NA	Halogen Content: 0%
Waste Number: U205	Hazard Code: R, T
Hazardous Organic Constituents: NA	
Chemical Name: D-Glucopyranose, 2-deoxy-2-(3-methyl-3-nitrosoureido)-	
Synonyms: (Streptozotocin)	
Physical State: Platelets	Formula: C ₈ H ₁₅ N ₃ O ₇
Viscosity: NA	Mol. Weight: 265.22
Specific Gravity: NA	Halogen Content: 0%
Waste Number: U206	Hazard Code: T
Hazardous Organic Constituents: D-Glucopyranose,....	
Chemical Name: Benzene, 1,2,4,5-tetrachloro-	
Synonyms: (Benzene tetrachloride)	
Physical State: Liquid	Formula: C ₆ H ₂ Cl ₄
Viscosity: NA	Mol. Weight: 215.9
Specific Gravity: 1.734	Halogen Content: Cl - 65.8%
Waste Number: U207	Hazard Code: T
Hazardous Organic Constituents: Benzene, 1,2,4,5-tetrachloro-	
Chemical Name: Ethane, 1,1,1,2-tetrachloro-	
Synonyms: NA	
Physical State: Liquid	Formula: CHClCHCl ₃
Viscosity: NA	Mol. Weight: 167.86
Specific Gravity: 1.6 @ 20° C	Halogen Content: Cl - 84.6%
Waste Number: U208	Hazard Code: T
Hazardous Organic Constituents: Ethane,1,1,1,2-tetrachloro-	
Chemical Name: Ethane, 1,1,2,2-tetrachloro-	
Synonyms: (Acetylene tetrachloride)	
Physical State: Liquid	Formula: CHCl ₂ CHCl ₂
Viscosity: 1.844 cP	Mol. Weight: 167.86
Specific Gravity: 1.600 @ 20° C	Halogen Content: Cl - 84.6%
Waste Number: U209	Hazard Code: T
Hazardous Organic Constituents: Ethane, 1,1,2,2-tetrachloro-	

Chemical Name: Ethene, 1,1,2,2-tetrachloro-	
Synonyms: (Tetrachlorethylene) (Perchloroethylene) (Ethylene tetrachloride)	
Physical State: Liquid	Formula: $\text{Cl}_2\text{C}=\text{CCl}_2$
Viscosity: 1.932 cP	Mol. Weight: 165.85
Specific Gravity: 1.631 @ 15° C	Halogen Content: Cl - 85.52%
Waste Number: U210	Hazard Code: T
Hazardous Organic Constituents: Ethene,....	
Chemical Name: Carbon tetrachloride	
Synonyms: (Tetrachloromethane)	
Physical State: Liquid	Formula: CCl_4
Viscosity: 0.612 centistokes @ 20° C; 0.965 cP	Mol. Weight: 153.84
Specific Gravity: 1.597 @ 20° C	Halogen Content: Cl - 92.3%
Waste Number: U211	Hazard Code: T
Hazardous Organic Constituents: Carbon tetrachloride	
Chemical Name: Furan, tetrahydro-	
Synonyms: (Cyclotetramethylene oxide)	
Physical State: Liquid	Formula: $\text{OCH}_2\text{CH}_2\text{CH}_2\text{CH}_2$
Viscosity: NA	Mol. Weight: 72.10
Specific Gravity: 0.888 @ 20° C	Halogen Content: 0%
Waste Number: U213	Hazard Code: I
Hazardous Organic Constituents: Furan, tetrahydro-	
Chemical Name: Thallium (I) Acetate	
Synonyms: NA	
Physical State: NA	Formula: $\text{TlC}_2\text{H}_3\text{O}_2$
Viscosity: NA	Mol. Weight: 263.43
Specific Gravity: NA	Halogen Content: 0%
Waste Number: U214	Hazard Code: T
Hazardous Organic Constituents: Thallium Acetate	
Chemical Name: Carboic acid, dithallium(I)	
Synonyms: (Thallium carbonate) salt	
Physical State: Crystals	Formula: Tl_2CO_3
Viscosity: NA	Mol. Weight: 468.79
Specific Gravity: 7.11	Halogen Content: 0%
Waste Number: U215	Hazard Code: T
Hazardous Organic Constituents: Carbonic acid,...	

Chemical Name: Thallium (I) Chloride	
Synonyms: NA	
Physical State: NA	Formula: TlCl
Viscosity: 0-2400 cp	Mol. Weight: 239.85
Specific Gravity: NA	Halogen Content: 14.8%
Waste Number: U216	Hazard Code: T
Hazardous Organic Constituents: NA	
Chemical Name: Thallium (I) Nitrate	
Synonyms: NA	
Physical State: NA	Formula: TlNO ₃
Viscosity: 0-2400 cp	Mol. Weight: 266.40
Specific Gravity: NA	Halogen Content: 0%
Waste Number: U217	Hazard Code: T
Hazardous Organic Constituents: NA	
Chemical Name: Ethanethioamide	
Synonyms: (Thioacetamide)	
Physical State: Colorless leaflets	Formula: CH ₃ CSNH ₂
Viscosity: NA	Mol. Weight: 75.20
Specific Gravity: NA	Halogen Content: 0%
Waste Number: U218	Hazard Code: T
Hazardous Organic Constituents: Ethanethioamide	
Chemical Name: Carbamide, thio-	
Synonyms: (Thiourea)	
Physical State: Powder or Crystals	Formula: NH ₂ CSNH ₂
Viscosity: NA	Mol. Weight: 76.1
Specific Gravity: 1.405	Halogen Content: 0%
Waste Number: U219	Hazard Code: T
Hazardous Organic Constituents: Carbamide, thio-	
Chemical Name: Benzene, methyl-	
Synonyms: (Toluene) (Phenylmethane) (Toluol)	
Physical State: Liquid	Formula: C ₆ H ₅ CH ₃
Viscosity: 0.552 cP	Mol. Weight: 92.13
Specific Gravity: 0.866 @ 20° C	Halogen Content: 0%
Waste Number: U220	Hazard Code: T
Hazardous Organic Constituents: Benzene, methyl-	

Chemical Name: Diaminotoluene	
Synonyms: (Toluenediamine)	
Physical State: Prisms	Formula: CH ₃ C ₆ H ₃ (NH ₂) ₂
Viscosity: NA	Mol. Weight: 122.17
Specific Gravity: NA	Halogen Content: 0%
Waste Number: U221	Hazard Code: T
Hazardous Organic Constituents: Diaminotoluene	
Chemical Name: Benzenamine, 2-methyl-hydrochloride	
Synonyms: (o-Toluidine hydrochloride) (o-Chlorotoluidine) (4-Chloro-o-toluidine hydrochloride)	
Physical State: Solid	Formula: CH ₃ C ₆ H ₃ (Cl)NH ₂ HCl
Viscosity: NA	Mol. Weight: 178.06
Specific Gravity: NA	Halogen Content: Cl - 39.9%
Waste Number: U222	Hazard Code: T
Hazardous Organic Constituents: Benzenamine,...	
Chemical Name: Benzene, 2,3-diisocyanatomethyl	
Synonyms: Toluene diisocyanate	
Physical State: NA	Formula: C ₉ H ₆ N ₂ O ₂
Viscosity: NA	Mol. Weight: 174.17
Specific Gravity: NA	Halogen Content: 0%
Waste Number: U223	Hazard Code: R, T
Hazardous Organic Constituents: NA	
Chemical Name: Bromoform	
Synonyms: (Tribromomethane)	
Physical State: Liquid	Formula: CH Br ₃
Viscosity: NA	Mol. Weight: 252.77
Specific Gravity: 2.89 @ 20° C	Halogen Content: Br - 94.9%
Waste Number: U225	Hazard Code: T
Hazardous Organic Constituents: Bromoform	
Chemical Name: Methyl chloroform	
Synonyms: (alpha-Trichloroethane) (1,1,1-Trichloroethane)	
Physical State: Liquid	Formula: CH ₃ CCl ₃
Viscosity: 0.903 cP @ 20° C	Mol. Weight: 133.42
Specific Gravity: 1.35 @ 20° C	Halogen Content: Cl - 79.7%
Waste Number: U226	Hazard Code: T
Hazardous Organic Constituents: Methyl chloroform	

Chemical Name: Ethane, 1,1,2-trichloro-	
Synonyms: (Vinyl trichloride) (beta-Trichloroethane)	
Physical State: Liquid	Formula: CH ₂ ClCHCl ₂
Viscosity: 0.119 cP	Mol. Weight: 133.4
Specific Gravity: 1.4416 @ 20° C	Halogen Content: Cl - 79.8%
Waste Number: U227	Hazard Code: T
Hazardous Organic Constituents: Ethane, 1,1,2-trichloro-	
Chemical Name: Trichloroethene	
Synonyms: (Trichloroethylene)	
Physical State: Liquid	Formula: CHClCCl ₂
Viscosity: 0.566 cP	Mol. Weight: 131.40
Specific Gravity: 1.46 @ 25° C	Halogen Content: Cl - 81.1%
Waste Number: U228	Hazard Code: T
Hazardous Organic Constituents: Trichloroethene	
Chemical Name: Benzene, 1,3,5-trinitro-(R,T)	
Synonyms: sym-Trinitrobenzene (R,T)	
Physical State: NA	Formula: NA
Viscosity: NA	Mol. Weight: NA
Specific Gravity: NA	Halogen Content: NA
Waste Number: U234	Hazard Code: T
Hazardous Organic Constituents: NA	
Chemical Name: 1-Propanol, 2,3-dibromo-, phosphate (3:1)	
Synonyms: Tris(2,3-dibromopropyl) phosphate	
Physical State: Liquid	Formula: C ₃ H ₆ O ₄ Br ₂ P
Viscosity: NA	Mol. Weight: 297
Specific Gravity: NA	Halogen Content: Br - 53.9%
Waste Number: U235	Hazard Code: T
Hazardous Organic Constituents: 1-Propanol, 2,3-dibromo-...	
Chemical Name: 2,7-Napthalenedisulfonic acid, 3,3'-((3,3'-dimethyl-(1,1'-biphenyl)-4,4'diyl))bis (azo)bis(5-amino-4-hydroxy tetrasodium salt	
Synonyms: (Trypan blue)	
Physical State: Powder	Formula: C ₃₄ H ₂₄ N ₆ Na ₄ O ₁₄ S ₄
Viscosity: NA	Mol. Weight: 960.8
Specific Gravity: NA	Halogen Content: 0%
Waste Number: U236	Hazard Code: T
Hazardous Organic Constituents: 7-Napthalene...	

Chemical Name: Uracil, 5(bis(2-chloromethyl)amino)-	
Synonyms: (Uracil mustard)	
Physical State: Liquid	Formula: C ₈ H ₁₁ Cl ₂ N ₃ O ₂
Viscosity: NA	Mol. Weight: 251.9
Specific Gravity: NA	Halogen Content: Cl - 28.13%
Waste Number: U237	Hazard Code: T
Hazardous Organic Constituents: Uracil,...	
Chemical Name: Carbamic acid, ethyl ester	
Synonyms: (Urethane) (Ethyl carbamate)	
Physical State: Crystals	Formula: CO(NH ₂)OC ₂ H ₅
Viscosity: NA	Mol. Weight: 89.1
Specific Gravity: 0.9862	Halogen Content: 0%
Waste Number: U238	Hazard Code: T
Hazardous Organic Constituents: Carbamic acid,...	
Chemical Name: Benzene, dimethyl-	
Synonyms: (Xylene) (Xylol)	
Physical State: Liquid	Formula: C ₆ H ₄ (CH ₃) ₂
Viscosity: 0.810 cP @ 20° C	Mol. Weight: 106.2
Specific Gravity: 0.864 @ 20° C	Halogen Content: 0%
Waste Number: U239	Hazard Code: I, T
Hazardous Organic Constituents: Benzene, dimethyl-	
Chemical Name: 2,4-Dichlorophenoxyacetic acid, salts and esters	
Synonyms: 2,4-D, salts and esters	
Physical State: Solid	Formula: C ₈ H ₆ Cl ₂ O ₃
Viscosity: NA	Mol. Weight: 221.04
Specific Gravity: NA	Halogen Content: Cl - 32.1%
Waste Number: U240	Hazard Code: T
Hazardous Organic Constituents: 2,4-D...	
Chemical Name: Hexachloropropene	
Synonyms: (1-Propene, 1,1,2,3,3,3-hexachloro-)	
Physical State: NA	Formula: C ₃ Cl ₆
Viscosity: NA	Mol. Weight: 248.8
Specific Gravity: NA	Halogen Content: Cl - 85.5%
Waste Number: U243	Hazard Code: T
Hazardous Organic Constituents: Hexachloropropene	

Chemical Name: Bis(dimethylthiocarbamoyl), disulfide-	
Synonyms: Thiram	
Physical State: Solid	Formula: C ₆ H ₁₂ N ₂ S ₄
Viscosity: NA	Mol. Weight: 240.44
Specific Gravity: 1.30	Halogen Content: 0%
Waste Number: U244	Hazard Code: T
Hazardous Organic Constituents: Bis(dimethyl...	
Chemical Name: Bromine cyanide	
Synonyms: Cyanogen Bromide	
Physical State: Gas	Formula: CNBr
Viscosity: NA	Mol. Weight: 106
Specific Gravity: 2.015	Halogen Content: 75%
Waste Number: U246	Hazard Code: T
Hazardous Organic Constituents: Cyanogen Bromide	
Chemical Name: Methoxychlor	
Synonyms: Ethane, 1,1,1-trichloro-2,2-bis(p-methoxyphenyl)-	
Physical State: Solid	Formula: C ₁₆ H ₁₅ Cl ₃ O ₂
Viscosity: NA	Mol. Weight: 345.65
Specific Gravity: NA	Halogen Content: Cl - 30.8%
Waste Number: U247	Hazard Code: T
Hazardous Organic Constituents: Methoxychlor	
Chemical Name: 3-(alpha-Acetylbenzyl)-4-hydroxycoumarin and salts, when present at concentrations of 0.3% or less	
Synonyms: (Warfarin)	
Physical State: Solid	Formula: C ₁₉ H ₁₆ O ₄
Viscosity: NA	Mol. Weight: 308.32
Specific Gravity: NA	Halogen Content: 0%
Waste Number: U248	Hazard Code: T
Hazardous Organic Constituents: 3-(alpha-Acetylbenzyl)-...	
Chemical Name: Zinc phosphide, when present at concentrations of 10% or less	
Synonyms: NA	
Physical State: Solid	Formula: Zn ₃ P ₂
Viscosity: NA	Mol. Weight: 258.09
Specific Gravity: 4.55 @ 13° C	Halogen Content: 0%
Waste Number: U249	Hazard Code: T
Hazardous Organic Constituents: NA	

Chemical Name: Benomyl	
Synonyms: Carbamic acid, [1-[(butylamino)carbonyl]-1H-benzimidazol-2-yl],-methyl ester	
Physical State: Crystalline solid	Formula: C ₁₄ H ₁₈ N ₄ O ₃
Viscosity: NA	Mol. Weight: 290.36
Specific Gravity: NA	Halogen Content: 0%
Waste Number: U271	Hazard Code: T
Hazardous Organic Constituents:	
Chemical Name: Bendiocarb	
Synonyms: 1,3-Benzodioxol-4-ol, 2,2-dimethyl-, methylcarbamate	
Physical State: Solid	Formula: C ₁₁ H ₁₃ NO ₄
Viscosity: NA	Mol. Weight: 223.25
Specific Gravity: 1.25	Halogen Content: 0%
Waste Number: U278	Hazard Code: T
Hazardous Organic Constituents:	
Chemical Name: Carbaryl	
Synonyms: 1-Naphthalenol, methylcarbamate	
Physical State: Crystalline solid	Formula: C ₁₂ H ₁₁ NO ₂
Viscosity: NA	Mol. Weight: 201.24
Specific Gravity: 1.232 @ 20°/20°	Halogen Content: 0%
Waste Number: U279	Hazard Code: T
Hazardous Organic Constituents:	
Chemical Name: Barban	
Synonyms: Carbamic acid, (3-chlorophenyl)-, 4-chloro-2-butynyl ester	
Physical State: Solid	Formula: C ₁₁ H ₉ Cl ₂ NO ₂
Viscosity: NA	Mol. Weight: 258.1
Specific Gravity: 1.403 @ 25° / 25°	Halogen Content: Cl - 27.5%
Waste Number: U280	Hazard Code: T
Hazardous Organic Constituents:	
Chemical Name: Bendiocarb phenol	
Synonyms: 1,3-Benzodioxol-4-ol, 2,2-dimethyl-,	
Physical State: NA	Formula: C ₉ H ₁₀ O ₃
Viscosity: NA	Mol. Weight: 166.18
Specific Gravity: NA	Halogen Content: 0%
Waste Number: U364	Hazard Code: T
Hazardous Organic Constituents:	

Chemical Name: Carbofuran phenol	
Synonyms: 7-Benzofuranol, 2,3-dihydro-2,2-dimethyl	
Physical State: NA	Formula: C ₁₀ H ₁₂ O ₂
Viscosity: NA	Mol. Weight: 164.20
Specific Gravity: NA	Halogen Content: 0%
Waste Number: U367	Hazard Code: T
Hazardous Organic Constituents:	
Chemical Name: Carbendazim	
Synonyms: Carbamic acid, 1H-benzimidazol-2-yl, methyl ester	
Physical State: Solid	Formula: C ₉ H ₉ N ₃ O ₂
Viscosity: NA	Mol. Weight: 191.21
Specific Gravity: NA	Halogen Content: 0%
Waste Number: U372	Hazard Code: T
Hazardous Organic Constituents:	
Chemical Name: Protham	
Synonyms: Carbamic acid, phenyl-, 1-methylethyl ester	
Physical State: Crystalline solid	Formula: C ₁₀ H ₁₃ NO ₂
Viscosity: NA	Mol. Weight: 179.24
Specific Gravity: 1.09 @ 20°	Halogen Content: 0%
Waste Number: U373	Hazard Code: T
Hazardous Organic Constituents:	
Chemical Name: Prosulfocarb	
Synonyms: Carbamothioic acid, dipropyl-, S-(phenylmethyl) ester	
Physical State: NA	Formula: C ₁₄ H ₂₁ NO _S
Viscosity: NA	Mol. Weight: 251.4
Specific Gravity: NA	Halogen Content: 0%
Waste Number: U387	Hazard Code: T
Hazardous Organic Constituents:	
Chemical Name: Trillate	
Synonyms: Carbamothioic acid, bis(1-methylethyl)-, S-(2,3,3-trichloro-2-propenyl) ester	
Physical State: NA	Formula: C ₁₀ H ₁₆ Cl ₃ NO _S
Viscosity: NA	Mol. Weight: 304.66
Specific Gravity: 1.237	Halogen Content: T
Waste Number: U389	Hazard Code:
Hazardous Organic Constituents:	

Chemical Name: A2213	
Synonyms: Ethanimidothioic acid, 2-(dimethylamino)-N-hydroxy-2-oxo, methyl ester	
Physical State: NA	Formula: C ₅ H ₁₀ N ₂ O ₂ S
Viscosity: NA	Mol. Weight: 0%
Specific Gravity: NA	Halogen Content: T
Waste Number: U394	Hazard Code:
Hazardous Organic Constituents:	
Chemical Name: Diethylene glycol, dicarbamate	
Synonyms: Ethanol, 2,2 ¹ -oxybis-, dicarbamate	
Physical State: NA	Formula: C ₆ H ₁₂ N ₂ O ₅
Viscosity: NA	Mol. Weight: 192.17
Specific Gravity: NA	Halogen Content: 0%
Waste Number: U395	Hazard Code: T
Hazardous Organic Constituents:	
Chemical Name: Triethylamine	
Synonyms: Ethanamine, N,N-diethyl-	
Physical State: Liquid	Formula: C ₆ H ₁₅ N
Viscosity: NA	Mol. Weight: 101.22
Specific Gravity: 0.7255 @ 25/4°	Halogen Content: 0%
Waste Number: U404	Hazard Code: T
Hazardous Organic Constituents:	
Chemical Name: 2,4,6-Tribromophenol	
Synonyms:	
Physical State: Crystalline solid	Formula: C ₆ H ₃ Br ₃ O
Viscosity: NA	Mol. Weight: 330.8
Specific Gravity: 2.55	Halogen Content: Br - 72.5%
Waste Number: U408	Hazard Code: T
Hazardous Organic Constituents:	
Chemical Name: Thiophanate-methyl	
Synonyms: Carbamic acid, [1,2-phenylenebis (iminocarbonothioyl)]bis-, dimethyl ester	
Physical State: Crystalline solid	Formula: C ₁₂ H ₁₄ N ₄ O ₄ S ₂
Viscosity: NA	Mol. Weight: 342.39
Specific Gravity: NA	Halogen Content: 0%
Waste Number: U409	Hazard Code: T
Hazardous Organic Constituents:	

Chemical Name: Thiocarb	
Synonyms: Ethanimidothioic acid, N,N ¹ -[thiobis[methylimino)carbonyloxy]]bis-, dimethyl ester	
Physical State: NA	Formula: C ₁₀ H ₁₈ N ₄ O ₄ S ₃
Viscosity: NA	Mol. Weight: 354.5
Specific Gravity: NA	Halogen Content: 0%
Waste Number: U410	Hazard Code: T
Hazardous Organic Constituents:	
Chemical Name: Propoxur	
Synonyms: Phenol, 2-(1-methylethoxy)-, methylcarbamate	
Physical State: Crystalline solid	Formula: C ₁₁ H ₁₅ NO ₃
Viscosity: NA	Mol. Weight: 209.27
Specific Gravity: NA	Halogen Content: 0%
Waste Number: U411	Hazard Code: T
Hazardous Organic Constituents:	

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APPENDIX C-3
CHEMICAL COMPATABILITY GUIDELINES

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INCOMPATIBILITY OF COMMON LABORATORY CHEMICALS

When certain hazardous chemicals are stored or mixed together, violent reactions may occur because the chemicals are unsuitable for mixing, or are incompatible. Classes of incompatible chemicals should be segregated from each other during storage, according to hazard class. Use the following general guidelines for hazard class storage:

- Flammable/Combustible Liquids and Organic Acids
- Flammable Solids
- Mineral Acids
- Caustics
- Oxidizers
- Perchloric Acid
- Compressed Gases

CHEMICAL	INCOMPATIBLE CHEMICAL(S)
Acetic acid	aldehyde, bases, carbonates, hydroxides, metals, oxidizers, peroxides, phosphates, xylene
Acetylene	halogens (chlorine, fluorine, etc.), mercury, potassium, oxidizers, silver
Acetone	acids, amines, oxidizers, plastics
Alkali and alkaline metals	acids, chromium, ethylene, halogens, hydrogen, mercury, earth nitrogen, oxidizers, plastics, sodium chloride, sulfur
Ammonia	acids, aldehydes, amides, halogens, heavy metals, oxidizers, plastics, sulfur
Ammonium nitrate	acids, alkalis, chloride salts, combustible materials, metals, organic materials, phosphorous, reducing agents, urea
Aniline	acids, aluminum, dibenzoyl peroxide, oxidizers, plastics
Azides	acids, heavy metals, oxidizers
Bromine	acetaldehyde, alcohols, alkalis, amines, combustible materials, ethylene, fluorine, hydrogen, ketones (acetone, carbonyls, etc.), metals, sulfur
Calcium oxide	acids, ethanol, fluorine, organic materials

CHEMICAL	INCOMPATIBLE CHEMICAL(S)
Carbon (activated)	alkali metals, calcium hypochlorite, halogens, oxidizers
Carbon tetrachloride	benzoyl peroxide, ethylene, fluorine, metals, oxygen, plastics, silanes
Chlorates	powdered metals, sulfur, finely divided organic or combustible materials
Chromic acid	acetone, alcohols, alkalis, ammonia, bases
Chromium trioxide	benzene, combustible materials, hydrocarbons, metals, organic materials, phosphorous, plastics
Chlorine	alcohol's, ammonia, benzene, combustible materials, flammable compounds (hydrazine), hydrocarbons (acetylene, ethylene, etc.), hydrogen peroxide, iodine, metals, nitrogen, oxygen, sodium hydroxide
Chlorine dioxide	hydrogen, mercury, organic materials, phosphorous, potassium hydroxide, sulfur
Copper	calcium, hydrocarbons, oxidizers
Hydroperoxide	reducing agents
Cyanides	acids, alkaloids, aluminum, iodine, oxidizers, strong bases
Flammable liquids	ammonium nitrate, chromic acid, hydrogen peroxide, nitric acid, sodium peroxide, halogens
Fluorine	alcohol's, aldehydes, ammonia, combustible materials, halocarbons, halogens, hydrocarbons, ketones, metals, organic acids
Hydrocarbons (Such as butane, propane benzene, turpentine, etc.)	acids, bases, oxidizers, plastics
Hydrofluoric acid	metals, organic materials, plastics, silica (glass), (anhydrous) sodium
Hydrogen peroxide	acetaldehyde, acetic acid, acetone, alcohol's carboxylic acid, combustible materials, metals, nitric acid, organic compounds,

CHEMICAL	INCOMPATIBLE CHEMICAL(S)
	phosphorous, sulfuric acid, sodium, aniline
Hydrogen sulfide	acetaldehyde, metals, oxidizers, sodium
Hypochlorites	acids, activated carbon
Iodine	acetaldehyde, acetylene, ammonia, metals, sodium
Mercury	acetylene, aluminum, amines, ammonia, calcium, fulminic acid, lithium, oxidizers, sodium
Nitrates	acids, nitrites, metals, sulfur, sulfuric acid
Nitric acid	acetic acid, acetonitrile, alcohol's, amines, (concentrated) ammonia, aniline, bases, benzene, cumene, formic acid, ketones, metals, organic materials, plastics, sodium, toluene
Oxalic acid	oxidizers, silver, sodium chlorite
Oxygen	acetaldehyde, secondary alcohol's, alkalis and alkalines, ammonia, carbon monoxide, combustible materials, ethers, flammable materials, hydrocarbons, metals, phosphorous, polymers
Perchloric acid	acetic acid, alcohols, aniline, combustible materials, dehydrating agents, ethyl benzene, hydriotic acid, hydrochloric acid, iodides, ketones, organic material, oxidizers, pyridine
Peroxides, organic	acids (organic or mineral)
Phosphorus (white)	oxygen (pure and in air), alkalis
Potassium	acetylene, acids, alcohols, halogens, hydrazine, mercury, oxidizers, selenium, sulfur
Potassium chlorate	acids, ammonia, combustible materials, fluorine, hydrocarbons, metals, organic materials, sugars
Potassium perchlorate also see chlorates)	alcohols, combustible materials, fluorine, hydrazine, metals, organic matter, reducing agents, sulfuric acid
Potassium permanganate	benzaldehyde, ethylene glycol, glycerol, sulfuric acid

CHEMICAL	INCOMPATIBLE CHEMICAL(S)
Silver	acetylene, ammonia, oxidizers, ozonides, peroxyformic acid
Sodium	acids, hydrazine, metals, oxidizers, water
Sodium nitrate	acetic anhydride, acids, metals, organic matter, peroxyformic acid, reducing agents
Sodium peroxide	acetic acid, benzene, hydrogen sulfide metals, oxidizers, peroxyformic acid, phosphorous, reducers, sugars, water
Sulfides	acids
Sulfuric acid	potassium chlorates, potassium perchlorate, potassium permanganate

References:

Material Safety Data Sheets, various chemical companies.

EPA's Chemical Compatibility Chart

EPA-600/Z-80-076 A
A METHOD FOR DETERMINING THE COMPATIBILITY OF CHEMICAL MIXTURES

Please Note: This chart is intended as an indication of some of the hazards that can be expected on mixing chemical wastes. Because many of the different activities of the thousands of compounds that may be encountered, it is not possible to make any chart definitive, nor do all of the different types of wastes that may be encountered. It cannot be assumed to ensure compatibility of wastes that are not classified as hazardous on the chart, nor do all of the wastes listed as incompatible necessarily mean that the mixture cannot result in a hazard occurring. Detailed instructions as to handling and disposing of any given waste should be obtained from the originator of the waste.

[illegible]

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SECTION D

PROCESS INFORMATION

The information provided in this section is submitted in accordance with the requirements of 40 CFR Parts 270.15 and 264.170-176, and the OAC 3745-50-44(c)(1), 3745-55-75 and 77. This section discusses specific process information related to the storage of hazardous waste containers at WPAFB.

D-1 Containers

As noted in Section B of this permit application WPAFB stores hazardous waste in containers in Building 479. Figure D-1 presents the site plan for Buildings 478/479. The container storage areas in Building 479 are designed, constructed, and managed as though all wastes stored in it contain free liquids.

The permitted units are as follows:

<u>Unit</u>	<u>Capacity</u> <u>(gal)</u>	<u>Secondary</u> <u>Containment (gal)</u>	<u>Waste Managed</u>
Building 479	17,820	14,392	All wastes listed on the Part A

D-1a Containers with Free Liquids

The container storage areas are used for the potential storage of all waste codes listed on the Part A.

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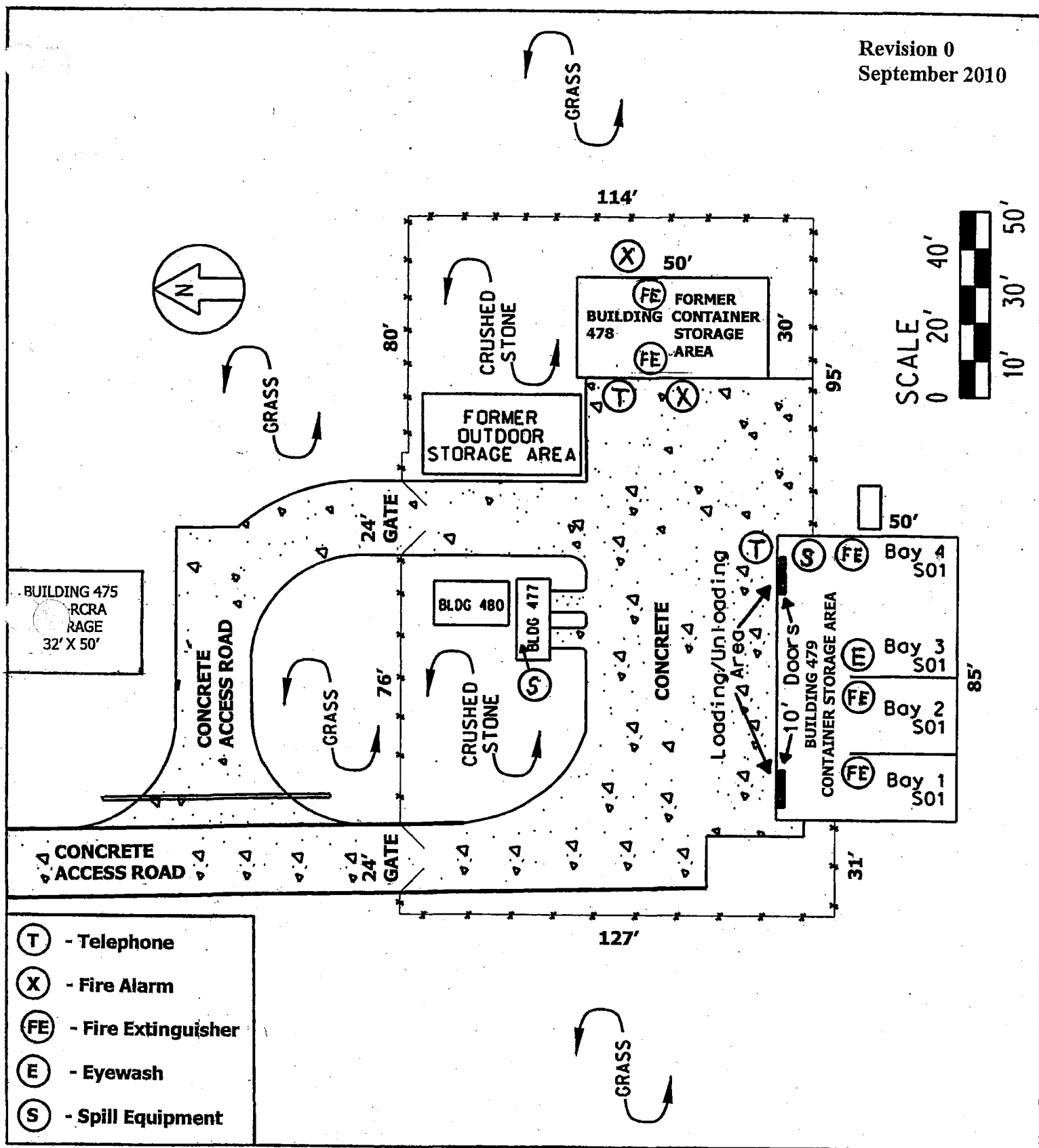


FIGURE D-1.
BUILDINGS 478/479 SITE PLAN

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D-1a(1) Description of Containers—

WPAFB packages all waste for transportation and storage under the guidelines for package applications and exceptions under 49 CFR Part 173. Each package meets the testing requirements under 49 CFR Part 178 as they apply to each individual package. Each package used for storage and shipment of hazardous waste is designed, constructed, maintained, filled, its contents so limited, and closed, so that under normal conditions of transportation there will be no identifiable release of hazardous materials to the environment. Containers meet the performance standards outlined in 49 CFR Part 178. All containers used to store hazardous waste are also labeled with a hazardous waste label, an example of which is shown in Figure D-2.

Compressed gas cylinder storage areas are shown on Figure D-9. The following cylinder types will be stored: flammables, corrosives, pyrophorics, oxidizers, poisons and dangerous when wet. Per the DLA-DS waste disposal contract, cylinder sizes will range from small (defined as averaging 4 inches in diameter and/or 16 inches in length) to large (defined as averaging 20 inches in diameter and/or 72 inches in length). Gas cylinders that are dangerous when wet shall be stored inside the existing dangerous when wet storage cabinet within the flammables bay.

Container volumes for Building 479 will range from 40 ml through 95-gallon drums.

It should be noted that 49 CFR Section 173.7- U.S. Government Material describes packaging requirements for the Department of Defense; containers may be of strength and efficacy equal to or greater than DOT requirements.

NON-BULK CONTAINERS OF MIXED WASTE SHALL BE RECEIVED FROM OTHER DOD INSTALLATIONS. THESE CONTAINERS SHALL REMAIN CLOSED WHILE IN STORAGE WITHIN BUILDING 479. THESE CONTAINERS WILL ONLY BE OPENED FOR THE PURPOSE OF SAMPLING OR CONSOLIDATION AS SPECIFIED IN SECTION D-1A(2), CONTAINER MANAGEMENT PRACTICES. THESE CONTAINERS SHALL MEET THE REQUIREMENTS AS OUTLINED IN 49 CFR 173.415.

HAZARDOUS WASTE	
FEDERAL LAW PROHIBITS IMPROPER DISPOSAL. IF FOUND, CONTACT THE NEAREST POLICE OR PUBLIC SAFETY AUTHORITY OR THE U.S. ENVIRONMENTAL PROTECTION AGENCY FOR HELP OR INFORMATION.	
NAME _____	
ADDRESS _____	PHONE _____
CITY _____	STATE _____ ZIP _____
HAZARDOUS WASTE NO. _____	HAZARDOUS WASTE NO. _____
DATE OF NO. _____	DATE OF NO. _____
DO NOT REUSE OR RECYCLE THIS WASTE	
HANDLE WITH CARE!	
EPA 600/4-91-010	

Figure D-2. Hazardous Waste Label

The exact number of each type of container in storage at any one time is highly variable and is tracked daily according to the inspections (see Section F). The total volume of liquid hazardous waste in containerized storage will not exceed 17,820 gallons.

D-1a(2) Container Management Practices --

Small containers will be stored in their original container by similar waste type on shelves or in a flammable storage cabinet (for water reactives). Containers larger than one gallon will only be stacked 1 high. The container will display the original manufacturer label or a similar handwritten label if the original is not available. Storage boxes containing more than one container may be used. If storage boxes are used, labels reflecting the content will be prominently displayed. The shelving units will be constructed of heavy metal and will consist of 2 to 3 individual shelves.

If additional storage space is needed, containers will be placed on the floor directly under the shelf unit. The flammable storage cabinet has 3 shelves measuring 54" x 16" each and has been constructed in accordance with National Fire Protection Association (NFPA) flammable and combustible liquids code NFPA 30. Table D-1 provides a description of the waste type and quantity stored in Building 479.

As shown on Figure D-4 each of the racks will only store compatible waste. Specific wastes stored on any rack may change based on the type and volume of hazardous waste stored at any one time; however, individual racks will only store compatible waste. A minimum aisle space of 3 feet will be maintained for racks.

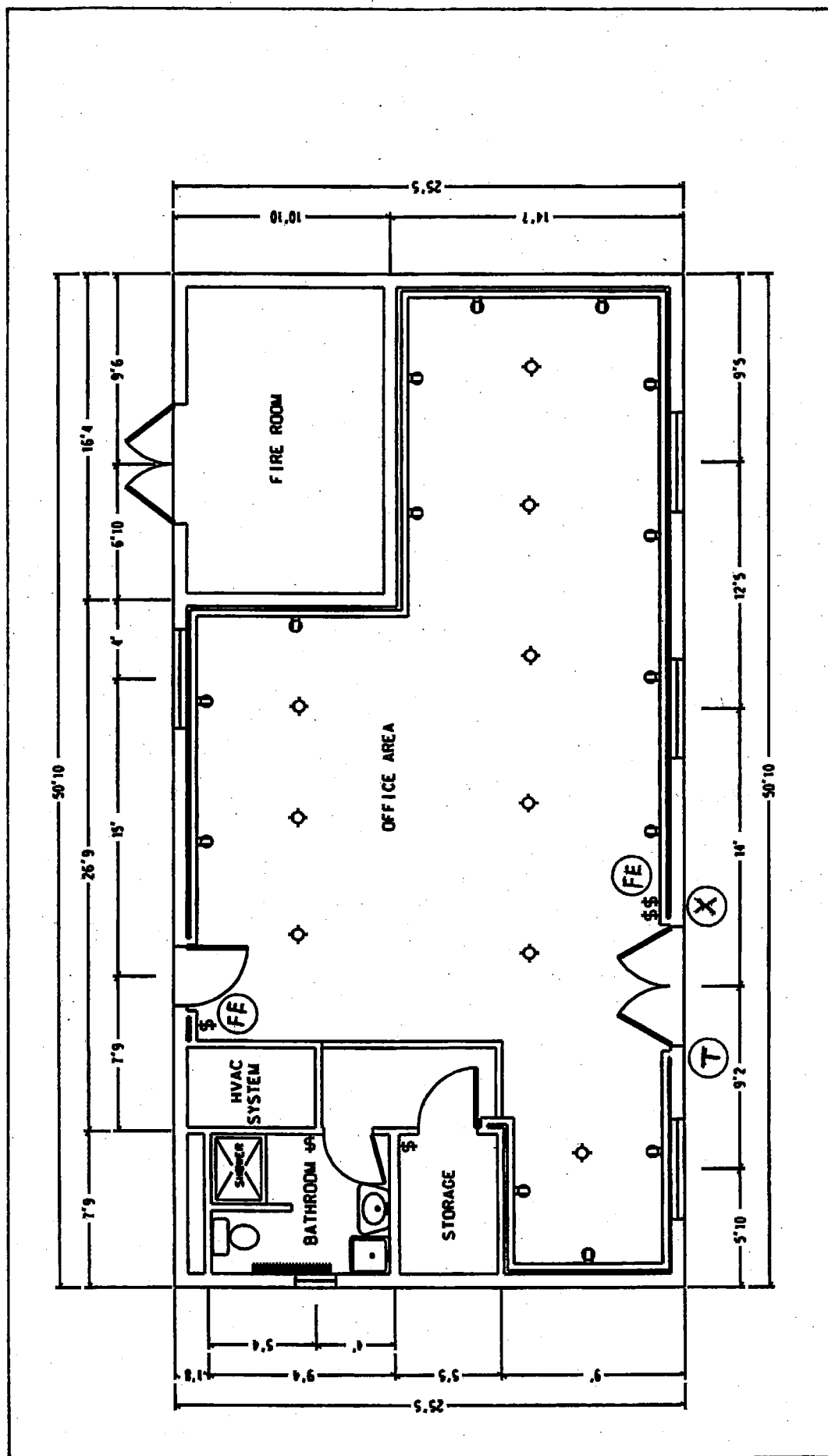
The gas cylinder storage areas shall be posted with the appropriate DOT hazard class or the name of the gases stored. When multiple DOT hazard classes apply, the primary hazard class will dictate a gas cylinder's storage area. Incompatible gas cylinder types will be segregated by a minimum of 20 feet within Building 479. To prevent falling or rolling, all gas cylinders shall be securely nested tightly together and restrained by metal chains/cages at appropriate levels of the cylinders. Cylinders may also be stored within Building 479 in outer containers (buckets, drums). No gas cylinders will be stored outside.

TABLE D-1. CONTAINER STORAGE WASTE INVENTORY

Waste Material	Quantity 55-Gallon Drums*	Quantity Total Gallons
Building 479		
A. Bay 1 Toxics		
- poisons/ORM-E	61 49	3,355 2,695
- gas cylinders	2	110
- F005 SOLVENTS/TRITIUM	12	660
- empty spill drums	9 (maximum)	495
B. Bay 2 Corrosives		
- acids/bases	62	3,410
- gas cylinders	2	110
- empty spill drums	8 (maximum)	440
C. Bay 3 Ignitables (flammables)		
- non-halogenated	62	3,410
- gas cylinders	2	110
- empty drums	8 (maximum)	440
D. Bay 4 Ignitables (flammables)		
- halogenated	92	5,060
- gas cylinders	4	220
- empty drums	12 (maximum)	660
Subtotal	324	17,820
Total	324	17,820

* The estimated waste inventory stored in small containers is based on 55-gallon drum volume.

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FE - Fire Extinguisher
X - Fire Alarm
T - Telephone

Figure D-3. Building 478 Floor Plan

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SOUTHWEST DISTRICT

Immediately prior to transportation offsite for disposal, hazardous waste in small containers will be moved from Building 479 to Building 477 to be lab-packed, bulked or consolidated to facilitate the contractors' own waste disposal operations. All packing, bulking and consolidating of small containers will occur inside Building 477 in order to prevent inadvertent release of material within Building 479. Corrosives will be bulked into 55-gallon or smaller polymer containers and flammables will be bulked into 55-gallon or smaller metal containers in the east bay of Building 477. CONTAINERS OF MIXED WASTE WILL BE CONSOLIDATED BY AFRRAD PERSONNEL ONLY IN BUILDING 477. CONSOLIDATION WILL BE CONDUCTED APPROXIMATELY EVERY SIX TO NINE MONTHS.

All loading and unloading of containers designated for storage in Building 479 will be completed within a concrete area pad. Should a spill occur, the material would be collected immediately. Section G, Contingency Plan, and Section F, Procedures to Prevent Hazards provide additional discussion of waste unloading and loading operations and of emergency response actions.

The layout of shelf units within Building 479 is shown on Figure D-4. The units will be grouped together by waste category. Because reactive wastes will be stored, contact with other wastes and items that may cause them to react with, will be restricted through physical separation of wastes.

A minimum of 4 feet of aisle space will be maintained between pallets and shelves containing flammable waste in accordance with NFPA standards for liquid warehouses. This minimum aisle space is based on National Fire Protection Association (NFPA), Flammable and Combustible Liquids Code NFPA 30.

All drums stored in Building 479 will be placed on pallets. Smaller containers (e.g., waste lab chemicals) will be stored on shelving units. Containers 55 gallons and larger will be stacked no higher than two high. An example of typical pallet arrangement is provided in Figure D-4. All drums accepted for storage meet DOT specifications. The building is segregated into four storage bays, which are designated for different waste categories: ignitables, toxics, reactives, and corrosives. Table D-1 provides a description of the waste type and quantities that are stored in each bay. Empty drums are available in each bay. The total capacity will be three hundred twenty-four, 55-gallon drums, or 17,820 gallons, including an adequate supply of empty spill response drums.

Immediately prior to transportation offsite for disposal, hazardous waste in small containers will be moved from Building 479 to Building 477 to be lab-packed, bulked or consolidated to facilitate the contractors' own waste disposal operations. All packing, bulking and consolidating of small containers will occur inside Building 477 in order to prevent inadvertent release of material within Building 479. Corrosives will be bulked into 55-gallon or smaller polymer containers and flammables will be bulked into 55-gallon or smaller metal containers in the east bay of Building 477.

All loading and unloading of containers designated for storage in Building 479 will be completed within a concrete area pad. Should a spill occur, the material would be collected immediately. Section G, Contingency Plan, and Section F, Procedures to Prevent Hazards provide additional discussion of waste unloading and loading operations and of emergency response actions.

The layout of shelf units within Building 479 is shown on Figure D-4. The units will be grouped together by waste category. Because reactive wastes will be stored, contact with other wastes and items that may cause them to react with, will be restricted through physical separation of wastes.

A minimum of 4 feet of aisle space will be maintained between pallets and shelves containing flammable waste in accordance with NFPA standards for liquid warehouses. This minimum aisle space is based on National Fire Protection Association (NFPA), Flammable and Combustible Liquids Code NFPA 30.

All drums stored in Building 479 will be placed on pallets. Smaller containers (e.g., waste lab chemicals) will be stored on shelving units. Containers 55 gallons and larger will be stacked no higher than two high. An example of typical pallet arrangement is provided in Figure D-4. All drums accepted for storage meet DOT specifications. The building is segregated into four storage bays, which are designated for different waste categories: ignitables, toxics, reactives, and corrosives. Table D-1 provides a description of the waste type and quantities that are stored in each bay. Empty drums are available in each bay. The total capacity will be three hundred twenty-four, 55-gallon drums, or 17,820 gallons, including an adequate supply of empty spill response drums.

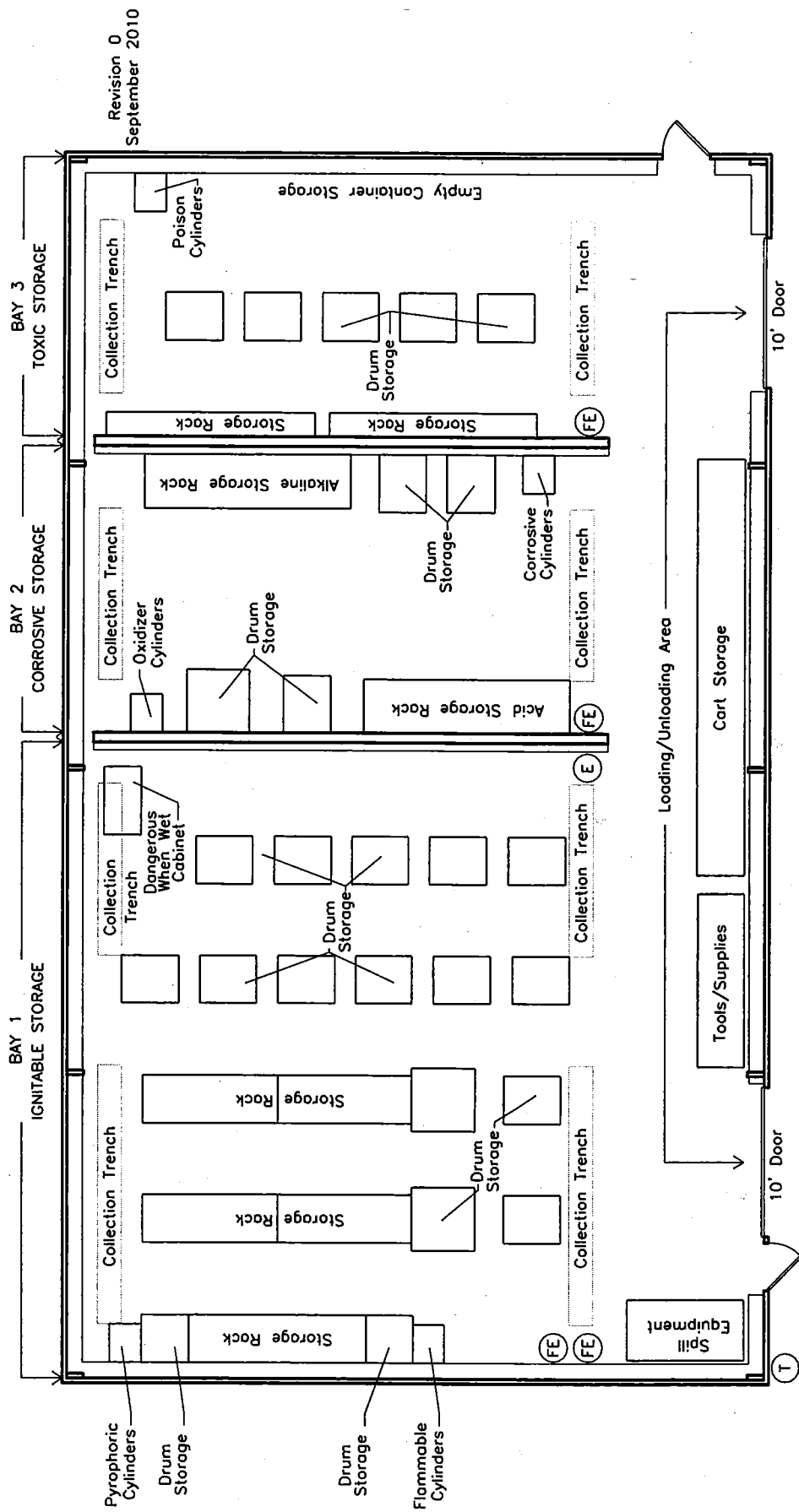


Figure D-4. Building 479 Storage Configuration
Scale: 3/8" = 1'-0"

Each drum will have a label prominently displayed indicating the type of waste stored. The drums will be stored in the appropriate bay based on the waste type. The waste type will be determined from the Hazardous Waste Pickup Form.

All loading and unloading of drums will be completed within a sloped concrete area near Bays 1 or 4 (Figure D-1). The unloading/loading area will also have a drain to collect any material spilled during waste movement. The drums will be moved to or from the transportation vehicle by either a drum cart, a pallet mover, or a forklift, as deemed appropriate. The drums will be moved to their appropriate waste storage areas based on waste type. Any spills or leaks during loading or unloading will drain to collection trenches. All released material collected will be removed and the unloading/loading area will be decontaminated.

A loading dock is designed to facilitate movement of 55-gallon drums to or from the storage building. The drums are unloaded manually by base personnel with the use of a pallet mover, forklift, or a drum cart. Once a drum is offloaded, the pallet mover, a drum cart, or a forklift would be used to position the drum(s) into the storage bay designated for that waste type. Small containers are designated for storage within Building 479. The waste containers would be unloaded by hand and carried into the building. Building 479 has a ramp that allows easy access to the storage area.

The handling of smaller containers, such as the preparation of lab packs, is done inside the existing buildings, where the concrete floors and walls provide a contained work area. When small containers arrive at the facility, they are packed in secondary containment trays according to waste type.

Building 479 incorporates a minimum of 3 feet of aisle space between rows of pallets containing 55-gallon drums of non-flammable waste. A minimum of 4 feet of aisle space will be maintained between pallets containing flammable waste in accordance with NFPA standards for liquid warehouses. This aisle space is sufficient to permit an inspector to walk the length of each bay. Aisle spaces are sufficient to allow unobstructed movement of personnel not only during loading and unloading, but also during facility inspections and emergency response actions.

*D-1a(3) Secondary Containment System Design and Operation [40 CFR 270.15(a)(3)
and 264.175(b)(3)] --*

Secondary containment capacity for the flammable storage cabinet measures 29.5" x 57" x 10.75" for a total containment capacity of 78 gallons ($10.5 \text{ ft}^3 \times 7.48 \text{ gal/ft}^3$). Therefore, the volume of waste stored in the flammable storage cabinet will be limited to 780 gallons so that the cabinet will provide 10 percent containment capacity.

Building 479 has eight separate collection trenches to drain any spilled material from a designated storage bay. The trenches are located at the north and south ends of each bay. Table D-2 provides a summary of the maximum gallons of waste to be stored in each bay. The trench and floor volume for each bay has been sized to provide storage capacity for 10 percent of the total volume of containers stored in the area draining to the collection trench. (This satisfies the regulatory requirement to provide containment capacity for either the total volume of the largest container--in this case, 55-gallons -- or for 10 percent of the total volume in storage, whichever is larger.) Table D-2 also identifies the capacity of secondary containment in relation to the number of drums stored in the area it serves. Secondary containment calculations are presented in Appendix D-1. The trenches and floor of Building 479 are designed so that there is a 1.25 percent floor slope to ensure that liquids will drain toward the trenches, away from the containers. The trenches are also sloped, having a depth of 18 inches at mid-length. The sloped floors and six inch curbs around the outside of each bay provide for additional secondary containment volume. The secondary containment of each bay is of adequate volume to contain a combination of 10 percent of the stored waste volume. The building is enclosed on all four sides to prevent run-on. Building 479 may also store smaller containers of waste in trays on racks within a given bay.

D-1a(3)(a) Requirement for the Base or Liner to Contain Liquids [40 CFR 264.175(b)(1)] --

The base of the collection trenches in Building 479 are free of cracks and gaps, and impervious to wastes and precipitation. The floor of Building 479 is covered with 2 coats of clear 1-component moisture resistant polyurethane, using Glidden 6151 or equivalent. Appendix D-2 contains manufacturers specifications for this coating. Floor joints in Building 479 are sealed using ASTM Method D-1190, concrete joint sealer, hot poured elastic type.

TABLE D-2. SUMMARY OF BUILDING 479 STORAGE TRENCH AND FLOOR CONTAINMENT CAPACITY^a

Bay	Active Drum(s) ^b		Empty Drums ^c		Total Drums		Trench and Floor Containment Capacity (Gallons)
	(No.)	(Gallons)	(No.)	(Gallons)	(No.)	(Gallons)	
Bay 1	63	3,465	9	495	72	3,960	3,312 = greater than 10% of 3,960 gallons
Bay 2	64	3,520	8	440	72	3,960	3,318 = greater than 10% of 3,960 gallons
Bay 3	64	3,520	8	440	72	3,960	3,435 = greater than 10% of 3,960 gallons
Bay 4	96	5,280	12	660	108	5,940	4,327 = greater than 10% of 5,940 gallons
Total	287	15,785	37	2,035	324	17,820	14,392 = greater than 10% of 17,820 gallons

Notes: (a) All drums are 55-gallon capacity; the largest container will not exceed 55-gallons.

(b) "Active Drums" = Maximum used for waste storage.

(c) "Empty Drums" = Empty drums are available in each area for use to store spill residue collected in trenches.

(d) An extra "spill drum" is added to this bay to provide storage for spillage of wastes during unloading/loading.

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The floors, collection trenches, and portions of the walls of Building 479, are coated with a continuous impervious epoxy material selected for compatibility with the stored waste material. The seal is continuous from the floor to the top of the six inch curbing surrounding the bays in Building 479 to provide coverage of 10 percent design capacity of the storage facility. Appendix D-2 contain epoxy floor coating compatibility data. Inspection and repair procedures for epoxy coating are detailed in Section F.

Concrete specifications for the base of Building 479 are as follows:

- ° Concrete is air entrained with a minimum compressive strength of 4,000 psi at 28 days.
- ° Reinforcing bars are grade 60 formed steel.
- ° The floor slab has a minimum thickness of six inches.
- ° The trench bottoms and walls have a minimum thickness of six inches.
- ° The joints between the floor slab and trench walls have been sealed with neoprene water stops to insure an impervious seal.

Additional details are provided in Appendix D-3.

D-1a(4) Provisions for Preventing or Managing Run-on [40 CFR 270.15(a)(4) and 264.175(b)(4)] --

Building 479 is completely enclosed on all four sides, and covered with a roof. The floor of the facility is composed of concrete, a minimum of six inches thick. The building is not located in the 100-year floodplain. The entrances are raised to prevent run-on.

D-1a(5) Removal of Liquids from Containment System --

Small spills or leaks would be removed by placing absorbent on the effected area, sweeping it up, and placing it in another empty container for disposal offsite as a hazardous waste. If the spill is large enough, a hand-operated pump would be used to remove the spill. The removed material would be pumped directly to an available onsite empty 55-gallon drum stored in each bay.

The filled drum would be labeled as containing spilled residue according to the type of waste material identified from the leaking container. It would be disposed offsite as a hazardous waste.

The hand-operated pump and any other equipment used in the cleanup would be rinsed with water before its reuse. The rinseate would also be containerized in a 55-gallon drum and disposed offsite as a hazardous waste.

Spills or leaks in Building 479 at loading area will be removed by absorbent material or a portable pump (for liquids removal from the trenches). The material will immediately be placed in an empty 55-gallon drum stored in the area. The drum will be labeled according to the label of the container from which the substance leaked or spilled. The filled drum will be disposed of offsite as a hazardous waste. All materials will be pumped from the containment system within 24 hours of discovery. Specifications for the trench system are contained in Appendix D-3.

D-1b Storage Areas for Containers Without Free Liquids [40 CFR 270.15(b)]

All containerized wastes stored in Building 479, regardless of whether or not they contain free liquids, will have adequate secondary containment.

D-1b(1) Test for Free Liquids [40 CFR 270.15(b)(1)]

Because all storage areas will be equipped with secondary containment devices, all containers will be handled as if they contain free liquids and, therefore, will not be tested for the presence of free liquids.

D-1b(2) Description of Storage Area Design and Operation to Drain and Remove Liquids or How Containers are Kept from Contact with Standing Liquids [40 CFR 270.15(b)(2), 264.175(c)(1) and (2)] --

Not applicable. Facility handles all containers as having free liquids.

*D-1c Requirements for Ignitable or Reactive Wastes and Incompatible Wastes
40 CFR 270.15(c)]*

Figure D-4 illustrates compliance with 40 CFR 264.176. Containers holding ignitable and reactive wastes will be stored in separate storage areas. Additionally, as shown on Map 2 Building 479 is located greater than 1,600 feet from the nearest boundary of WPAFB.

Containers holding hazardous wastes that are incompatible with any waste or other materials stored nearby in other containers will be separated and protected by means of walls or partitions [40

CFR 264.177(c)]. Where shelving units used to store small containers butt partition walls, which provide separation from an adjacent storage bay, the maximum height of the shelving units will be limited to prevent the top of any stored small containers from extending above the top of the partition wall. To prevent accidental reaction of incompatible corrosives stored within the same Bay 2, acids and bases will be stored apart from one another on separate shelving units or in separate drum storage areas as depicted in Figure D-4. All small containers of acids or bases stored within the same Bay 2 will be on containment trays. No small containers will be stored on the floor. Building 479 wastes are stored in four storage bays segregated by waste type as shown in Figure D-4.

The identity and characteristics of all hazardous wastes are determined at the time they are received (refer to Section C-2), allowing facility personnel to store the wastes compatibly. All storage will be according to compatibility of the waste which will serve as a precaution to prevent reactions that could generate extreme heat, pressure, fire, explosions or violent reactions; produce uncontrolled toxic mists, fumes, dusts, or gases in sufficient quantities to threaten human health or the environment; produce uncontrolled flammable fumes or gases in sufficient quantities to pose a risk of fire or explosions; damage the structural integrity of the device or facility; or threaten human health through other means [40 CFR 264.17(b) and (c)]. Appendix D-4 presents a summary of potentially incompatible waste materials/waste components and the adverse consequences that could result from mixing one group with another.

Hazardous wastes will not be placed in unwashed containers that previously held incompatible waste or material [40 CFR 264.177(a)]. Any leaking containers will be repackaged in accordance with DOT regulations.

Incompatible hazardous waste and nonhazardous materials will be fully isolated from each other. Individual containers will be provided for each type of waste or material.

Fire Suppression systems will be used throughout the facility.

National Electric Code, Class 1, Division 2 electrical systems and equivalent rated equipment will be used throughout the storage, staging, and loading/unloading area.

Ventilation will be provided for each individual storage area or closet and will be adequate for the type of material to be stored.

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Appendix C-1 indicates the hazardous characteristics of wastes that may be submitted to WPAFB based upon material safety data sheets and OSHA data sheets. These lists are representative of hazardous materials and wastes that may be stored at Building 479.

D-1d Container Management [40 CFR 264.171-173]

No leaking or damaged containers will be accepted for storage at Building 479. If a container holding hazardous wastes should begin rusting or leaking during storage at this facility, the container will be overpacked, or its contents will be transferred to another container that will be compatible with the requirements of 40 CFR Subpart I: Use and Management of Containers. Containers holding waste will be kept closed during storage, except when sampling is being performed. A container will not be opened, handled, or stored in a manner that may cause it to be ruptured or otherwise damaged.

Small containers will be stored on shelves in Building 479. Drums in Building 479 will be stored on wooden pallets and will be placed in a module using a forklift or handcart. Aisle space will be provided to allow movement of a hand truck in the event a drum must be removed from the area. Space will also be maintained in order to inspect all containers for deterioration caused by corrosion or other factors. A maximum of four drums (55-gallon size) will be stored on each wooden pallet and will be stacked on specific pallets racks. A storage plan is shown in Figure D-4 for Building 479.

The Asset INSTALLATION Management Division will provide packaging guidance to hazardous waste generators in accordance with 49 CFR, Subchapter C, Part 173.

D-1e Subpart CC Air Emission Standards [40 CFR 264.1086; 270.27]

All containers stored in Building 479 are Level 1 containers as described in 40 CFR 264.1086 (c) (i)-(ii). These containers shall have a tight-fitting cover such that, when closed, there are no visible holes, gaps, spaces or other openings, and the cover shall form a continuous barrier over the container openings.

Per 40 CFR 270.27 (a) (2), Figure D-4 identifies the container areas that are subject to the Subpart CC requirements. Section L provides the certification that the requirements of this subpart are met.

D-2 Tank [40 CFR 270.16]

No tanks will be used for hazardous waste storage.

D-3 Waste Piles [40 CFR 270.18]

No waste piles will be used at this facility.

D-4 Surface Impoundments [40 CFR 270.17]

No surface impoundments will be used at this facility.

D-5 Incinerators [40 CFR 270.19]

No incinerators will be used at this facility.

D-6 Landfills [40 CFR 270.21]

No hazardous waste will be landfilled. All wastes will be containerized and stored inside Building 479.

D-7 Land Treatment [40 CFR 270.20]

There will be no land treatment of hazardous wastes.

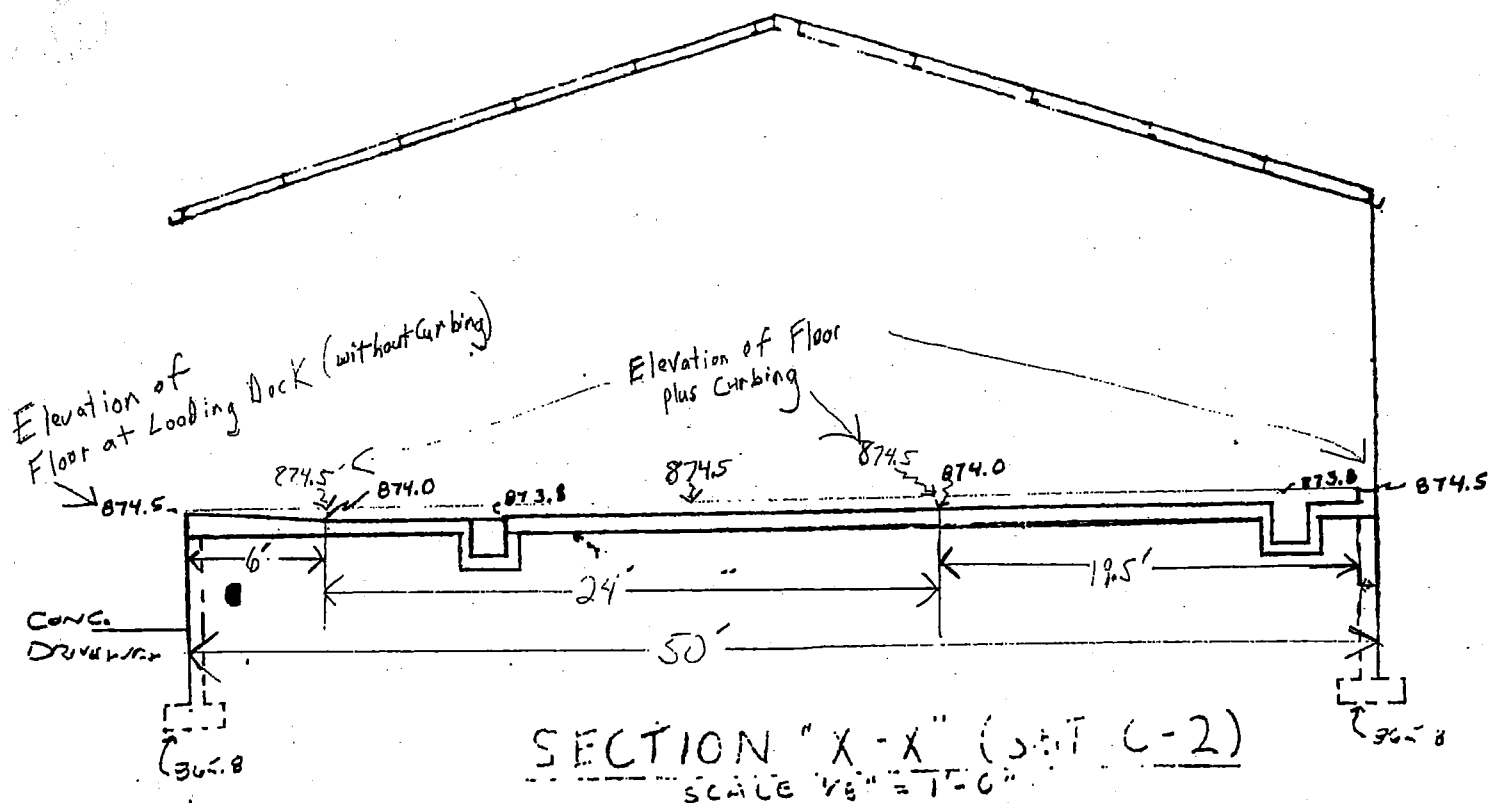
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APPENDIX D-1
BUILDING 479
SECONDARY CONTAINMENT CALCULATIONS

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DIV. OF HAZARDOUS
WASTE MGT.

00208



Bay #1 [Permitted Storage Capacity = 3960 gal.]

Floor Containment: $(43.5')(.5')(19') + \frac{1}{2}(.5')(19')(6') = 441.75 \text{ ft.}^3$
 $\times \frac{7.48 \text{ gal.}}{1 \text{ ft.}^3} = 3304 \text{ gal.}$
 Trench Containment: $(192.7 \text{ gallons})(2) = 385.4 \text{ gallons}$

Total Containment: $3304 \text{ gal.} + 385.4 \text{ gal.} = 3690 \text{ gal.}$

Deduction of corners: $3690 \text{ gallons} - \left[2(26.7' \times 1.6' \times .5') \times \frac{7.48 \text{ gal.}}{1 \text{ ft.}^3} + 2(1.6' \times .5' \times .5') \times \frac{7.48 \text{ gal.}}{1 \text{ ft.}^3} \right] = 3652 \text{ gal.}$

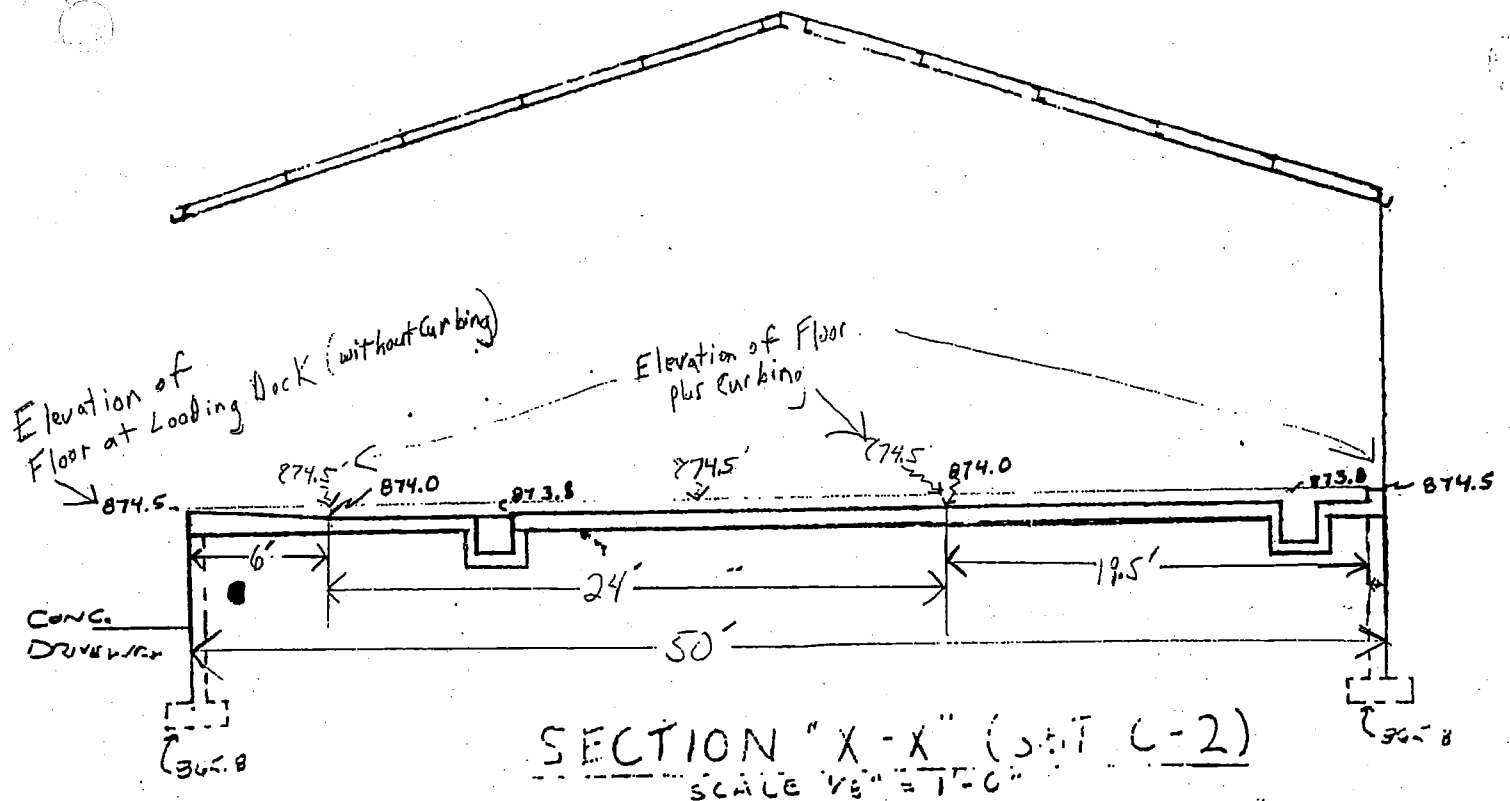
Deduction of Side Slopes: $3652 \text{ gal.} - 100 \text{ gal. (as estimated by OEPA)} = 3552 \text{ gal.}$

(Pallet and Drum Displacement): $3552 \text{ gal.} - \left[(14 \text{ pallets}) \left(\frac{10.5 \text{ gal.}}{\text{pallet}} \right) + (9 \text{ drums}) \left(\frac{10.33 \text{ gal.}}{\text{drum}} \right) \right] = 3312 \text{ gal. of containment available in Bay \#1}$

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2 [Permitted Storage Capacity = 3960 gal.]

Floor Containment: $(43.5' \times .5') (18.83') + \frac{1}{2} (.5') (18.83') (6') = 437.7 \text{ ft}^3 \times \frac{7.48 \text{ gal}}{1 \text{ ft}^3} = 3275 \text{ gal.}$

Trench Containment: $(192.7 \text{ gal.}) (2) = 385.4 \text{ gal.}$

Total Containment: $3275 \text{ gal.} + 385.4 \text{ gal.} = 3660 \text{ gal.}$

Deduction of Corners: $3660 \text{ gal.} - [4 (1.6' \times .5' \times .5') \times \frac{7.48 \text{ gal.}}{1 \text{ ft}^3}] = 3648 \text{ gal.}$

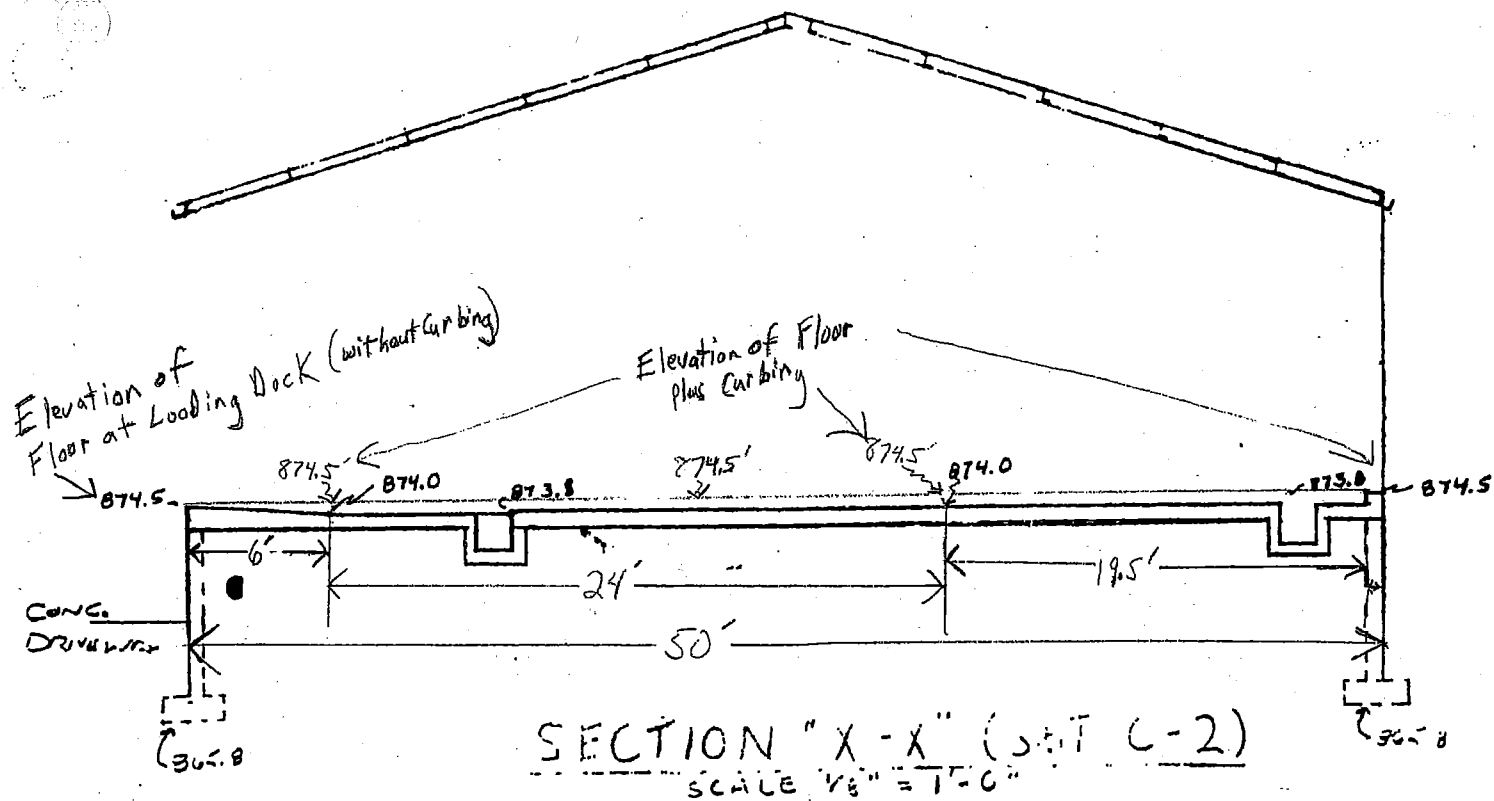
Deduction of Side Slopes: $3648 \text{ gal.} - 100 \text{ gal. (as estimated by OEPA)} = 3548 \text{ gal.}$

Pallet and Drum Displacement: $3548 \text{ gal.} - \left[(14 \text{ pallets}) \left(\frac{10.5 \text{ gal.}}{\text{pallet}} \right) + (8 \text{ drums}) \left(\frac{10.33 \text{ gal.}}{\text{drum}} \right) \right] = 3318 \text{ gal. of containment available in Bay \#2}$

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Bay #3 ^{Permitted} Storage Capacity = 3960 gal.

Floor Containment: $(43.5')(.5')(19.5') + \frac{1}{2}(.5')(19.5')(6') = 453.4 \text{ ft}^2 \times \frac{7.48 \text{ gal.}}{1 \text{ ft}^3} = 3392 \text{ gal.}$

Trench Containment: $(192.7 \text{ gal.})(2) = 385.4 \text{ gal.}$

Total Containment: $3392 \text{ gal.} + 385.4 \text{ gal.} = 3777 \text{ gal.}$

(Deduction of Corners): $3777 \text{ gal.} - [4(1.6' \times .5' \times .5') \times \frac{7.48 \text{ gal.}}{1 \text{ ft}^3}] = 3765 \text{ gal.}$

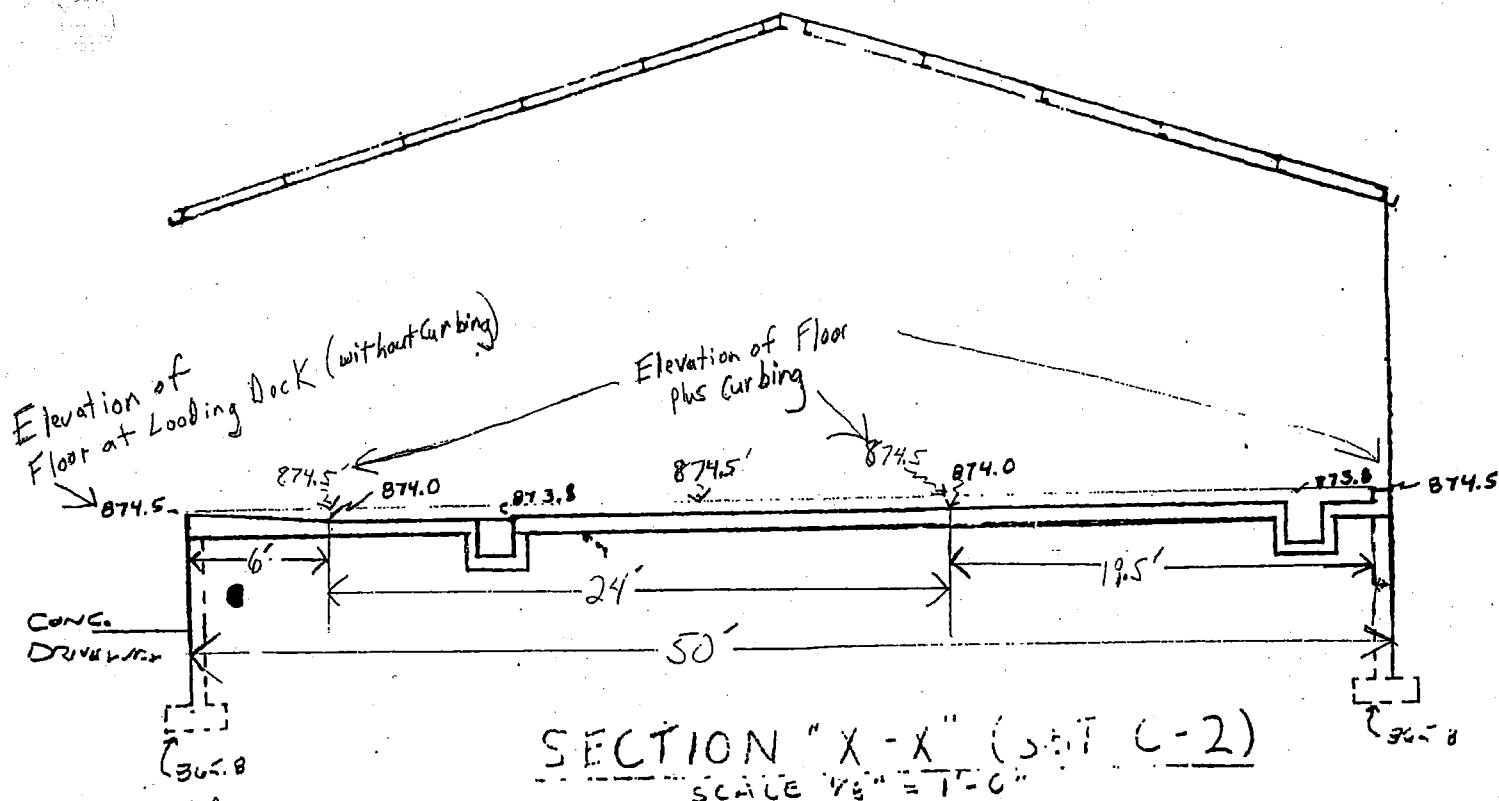
(Deduction of Side Slopes): $3765 \text{ gal.} - 100 \text{ gal. (as estimated by OEPA)} = 3665 \text{ gal.}$

Pallet and Drum Displacement: $3665 \text{ gal.} - [(14 \text{ pallets})(\frac{10.5 \text{ gal.}}{\text{pallet}}) + (8 \text{ drums})(\frac{10.33 \text{ gal.}}{\text{drum}})] = 3435 \text{ gal. of containment in Bay #3}$

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Permitted
Storage Capacity = 5940

(Floor Containment): $(43.5')(6.5')(24.33') + \frac{1}{2}(.5')(24.33')(6') = 565.7 \text{ ft}^3 \times \frac{7.481 \text{ gal.}}{1 \text{ ft}^3} = 4232 \text{ gal.}$

Trench Containment: $(289 \text{ gal.})(2) = 578 \text{ gal.}$

(Total Containment): $4232 \text{ gal.} + 578 \text{ gal.} = 4810 \text{ gal.}$

(Deduction of Corners): $4810 \text{ gal.} - [2(2.67' \times 1.6' \times .5') \times \frac{7.481 \text{ gal.}}{1 \text{ ft}^3} + 2(1.6' \times .5' \times .5') \times \frac{7.481 \text{ gal.}}{1 \text{ ft}^3}] = 4772 \text{ gal.}$

(Deduction of Side Slopes): $4772 \text{ gal.} - 100 \text{ gal. (as estimated by OEPA)} = 4672 \text{ gal.}$

Pallet and Drum Displacement: $4672 \text{ gal.} - [(6 \text{ pallets})(\frac{10.5 \text{ gal.}}{\text{pallet}}) + (12 \text{ drums})(\frac{10.33 \text{ gal.}}{\text{drum}})] = 4327 \text{ gal. of available containment in Bay #}$

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00212

CLIENT WPAFB
LOCATION Bldg. 479
SUBJECT 55-gal. Drum Displacement

EQ

PN 3103-2-1 Sheet No. _____
Checked By _____ Date _____
Computed By JK Date 12-16-92

Drum Diameter = 1.875' Maximum Spill Ht. = .5'

$$\text{Drum displacement volume} = \pi \left(\frac{1.875'}{2} \right)^2 (.5') \left(\frac{7.48 \text{ gal.}}{1 \text{ ft.}^3} \right) = \frac{10.33 \text{ gal}}{\text{drum}}$$

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APPENDIX D-2
FLOOR COATING SPECIFICATION

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WASTE MGT

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PROTECTIVE MAINTENANCE COATINGS DATA

High Performance Moisture Cured Polyurethane
Coating System

For Industrial Use Only by Professional Applicators
Not Intended for Use by the General Public

GLID-THANE™ ONE Polyurethane
Coatings No. 6100 Series
For Metal, Wood and Masonry

WARNING! FLAMMABLE PAINT. VAPOR AND SPRAY MIST HARMFUL. MAY CAUSE PERMANENT LUNG DAMAGE AND ALLERGIC RESPIRATORY REACTION. IRRITATES EYES. SENSITIZES SKIN. DEPENDING ON COLOR, MAY CONTAIN XYLENE, TOLUENE, METHYL ISOBUTYL KETONE, 2-ETHOXYETHYL ACETATE, ETHYLBENZENE, BUTYL ACETATE, FREE AROMATIC OR ALIPHATIC DIISOCYANATE, ORGANIC TIN COMPOUNDS, CARBON BLACK, AROMATIC HYDROCARBON BLEND, TITANIUM DIOXIDE, CHROMATES, MINERAL SPIRITS AND ALUMINUM PIGMENT.

FOR NOS. 6101, 6102, 6105, 6107, 6112, 6114, 6135 and 6138:

WARNING! CONTAINS LEAD. DRIED FILMS OF THIS PAINT MAY BE HARMFUL IF EATEN OR CHEWED.

See other cautions on seventh page.

PRODUCT DESCRIPTION

GLID-THANE™ ONE Aliphatic Finishes are pigmented in a wide range of colors and clear for interior-exterior metal, wood and masonry surfaces. They exhibit superior color retention and resistance to weathering, corrosion and abrasion; excellent resistance to chemicals and solvents. Ideal for use in industrial plants and commercial buildings, on structural steel, tanks, pipes and racks, floors, siding, trim, processing equipment up to 250°F. and for equipment such as trucks, buses, construction and highway equipment, railway cars and engines, concrete trucks, truck cabs and trailers, machinery and offshore equipment.

Ideal for use as a product finish and for component parts.

GLID-THANE ONE Aromatic Finishes (pigmented and clear) are for interior use only on metal, wood and masonry surfaces. They exhibit excellent resistance to wear, abrasion, solvents and chemicals; their most beneficial feature is abrasion and impact resistance as a floor coating.

PRODUCTS AVAILABLE

GLID-THANE ONE Aliphatic Series is available in No. 6100 White, a complete line of ready-mixed colors and a No. 6116 Clear. GLID-THANE ONE Aromatic Series is available in No. 6151 Clear and No. 6152 Neutral Gray.

Additional items in the GLID-THANE ONE Line include No. 6117 Catalyst, No. 6119 Concrete Treatment, No. 6120 Primer, No. 6121 Standard Solvent, No. 6122 Retarder Solvent, and No. 6124 Clear Concrete Primer.

SPECIFICATIONS

The following GLID-THANE ONE products are accepted by USDA Meat and Poultry Inspection Program for incidental food contact:

No. 6100 White, No. 6115 Black, No. 6116 Clear, No. 6120 Primer, No. 6124 Clear Concrete Primer, No. 6151 Aromatic Clear and No. 6152 Neutral Gray.

PRODUCT ADVANTAGES

- Single-package moisture curing polyurethane coatings.
- Extreme abrasion resistance—GLID-THANE ONE coatings for concrete flooring have the highest abrasion resistance of any known concrete coating system. They outwear conventional coatings by a factor of 3 or 4.
- Superior color retention and resistance to weathering, corrosion, impact and abrasion.
- Excellent chemical resistance—these coatings have excellent resistance to acids, alkalis, detergents, lubricants, fats, oils and chemicals. Their resistance to organic acids present in food processing operations is outstanding.
- Excellent electrical properties.
- Long term flexibility—doesn't become brittle with aging.

SERVICE CONDITIONS

Heat—Up to 250°F. maximum dry heat. Some change of color is to be expected with light colors at elevated temperatures.

Do not use for direct food contact service. Not normally recommended for immersion (consult Glidden representative).

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Polyurethane—For Interior-Exterior/GLID-THANE™ ONE
Polyurethane Coating

THE GLIDDEN COMPANY
June 1985

9
INDUSTRIAL SURFACES
Polyurethane

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WASTE MGT.

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MATERIAL PREPARATION

Mix well before using. Loosen closure carefully, container may be under slight pressure. Withdraw only enough material from original container for use in one day. After withdrawal keep container closed to prevent contact with moisture vapor. Coating withdrawn from original container for use should be stored separately and used promptly.

SURFACE PREPARATION

Surfaces must be dry, clean and free of all contaminants. Remove dust and dirt with stiff bristle or wire brushes and compressed air. Remove oil and grease with solvents such as turpentine, mineral spirits or xylene in compliance with SSPC-SP 1-82 — Solvent Cleaning.

Metal Surfaces

Ferrous

All loose rust and mill scale must be removed by sandblasting, power tool cleaning, sanding or scraping. Wash with mineral spirits or xylene to remove oil or grease. See Glidden Protective Maintenance Coatings Data Sheets "Surface Preparation" Nos. 2 and 6 for more details.

New Galvanized & Aluminum

See "Surface Preparation" above. Remove oil, grease, dirt, dust and chemical contaminants by the prescribed cleaning methods. Sandblasting unnecessary when using epoxy primers. When priming with No. 6120, brush sandblasting is required.

Masonry Surfaces

Poured Concrete, Brick, Concrete Block

Level any surface projections and mortar spatter by grinding, stoning or scraping. Rake mortar joints clean. Remove all oil, grease, dirt, dust and chemicals with the prescribed cleaning methods.

Remove weak or powdery surface on concrete by mechanical means such as scraping, grinding or sandblasting. Very smooth concrete may be dulled by similar means.

Wood Surfaces — New

Sand smooth with the grain. All wood should be aged and fully cured.

Previously Painted Surfaces

All particles of old paint, dirt, rust, dust, chalk, mildew and other foreign matter shall be removed by one or more of the following: vigorous hand-wire brushing, scraping and sanding by hand, or power tool cleaning. Thick edges of remaining old paint shall be feathered so that the repainted surface will have a smooth appearance. The remaining old paint shall have sufficient adhesion so that it cannot be lifted as a layer by inserting a knife blade under it. Dirt and chalk shall be removed by solvent wash or powdered detergent and scrub followed by a clear water rinse. Mildew is to be removed with a solution of one tablespoon dry powdered laundry detergent and one quart hypochlorite type household bleach to three quarts warm water. After scrubbing, rinse thoroughly with water. Wear protective glasses and rubber gloves to avoid eye and skin irritation.

Hard or glossy paints should be dulled by sanding, sandblasting or other abrasive methods to assure maximum adhesion. Apply to test area to check for lifting of old coating.

Spot prime with 6120 GLID-THANE ONE Primer or 5251/5252 Epoxy Chromate Primer.

NOTE: Do not apply over GLID-GUARD® Epoxy Self-Priming Mastic 5256/5257 which will result in poor inter-coat adhesion.

The performance of GLID-THANE ONE finishes applied over previously painted surfaces is directly influenced by the type, age and condition of the old coating. If more than 25% of the previous coating has failed, it should be completely removed. If the previous coating can be easily scraped off the surface, it should be completely removed. See "Surface Preparation."

Primers, Fillers, Sealers

For Ferrous & Galvanized Metals & Aluminum —

GLID-GUARD® GLID-ZINC™ Inorganic 5536/5537; GLID-GUARD Epoxy Double Build Primer 5461/5452; GLID-THANE ONE Primer 6120; or GLID-GUARD Epoxy Chromate Primer 5251/5252. NOTE — GLID-THANE ONE Primer No. 6120 is recommended for use on Previously Painted Surfaces and Rusted (Oxidized) Steel Surfaces. See No. 6120 Primer Data Sheet. Not recommended for use on hot or cold rolled steel, aluminum or galvanized metal unless surface treated to create an anchor pattern either by brush or sandblasting or acid etching.

For Poured Concrete (other than concrete floors) —

GLID-GUARD Epoxy 5240/5242 reduced 25% with 5568 Epoxy Solvent.

For Concrete Block —

ULTRA HIDE Block Filler 5317; GLID-GUARD Epoxy 5240/5242 reduced 25% with 5568 Epoxy Solvent.

For Wood —

GLID-THANE ONE Coatings diluted 1:1 with 6121 Standard Solvent.

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WASTE MGT.

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SYSTEMS

Ferrous Metal

Type A—Aggressively Corrosive Environment

1st Coat—5536/5537 GLID-ZINC Inorganic	2.5 D.F.T.
2nd Coat—5556/5556 Epoxy High Build	6.0 D.F.T.
3rd Coat—6100 GLID-THANE ONE Coatings	1.5-2.0 D.F.T.

Type C—Corrosive Environment

1st Coat—5461/5452 Epoxy Double Build Primer	5.0 D.F.T.
2nd Coat—6100 GLID-THANE ONE Coatings**	1.5-2.0 D.F.T.

Type M—Moderate Environment

1st Coat—5461/5242 Epoxy Primer	3.0 D.F.T.
2nd Coat—6100 GLID-THANE ONE Coatings**	1.5-2.0 D.F.T.

1st Coat—6120 GLID-THANE ONE Primer*	1.5 D.F.T.
2nd Coat—6100 GLID-THANE ONE Coatings**	1.5-2.0 D.F.T.

Type P—Protected (Architectural) Environment

1st Coat—6120 GLID-THANE ONE Primer*	1.5 D.F.T.
2nd Coat—6100 GLID-THANE ONE Coatings**	1.5-2.0 D.F.T.

1st Coat—5251/5252 Epoxy Chromate Primer	1.5 D.F.T.
2nd Coat—6100 GLID-THANE ONE Coatings**	1.5-2.0 D.F.T.

Galvanized Metal/Aluminum

1st Coat—5251/5252 Epoxy Chromate Primer	1.5 D.F.T.
2nd Coat—6100 GLID-THANE ONE Coatings**	1.5-2.0 D.F.T.

1st Coat—6120 GLID-THANE ONE Primer*	1.5 D.F.T.
2nd Coat—6100 GLID-THANE ONE Coatings**	1.5-2.0 D.F.T.

Masonry Surfaces

Smooth Surfaces

1st Coat—5240/5242 Epoxy (reduced 25% with 5568 Epoxy Solvent)	D.F.T. varies
2nd Coat—6100 GLID-THANE ONE Coatings	1.5-2.0 D.F.T.

Rough Surfaces—Block

Filler—5317 Block Filler	D.F.T. varies
1st Coat—5240/5242 Epoxy (reduced 25% with 5568 Epoxy Solvent)	D.F.T. varies
2nd Coat—6100 GLID-THANE ONE Coatings	1.5-2.0 D.F.T.

*See "Note" under "Primers, Fillers, Sealers"

**A 3rd coat may be necessary for appearance and/or additional protection.

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Wood Surfaces

1st Coat—6116 Clear or Ready-Mixed Color diluted 1:1 with 6121 Standard Solvent	D.F.T. varies
---	---------------

NOTE: Two coats may be necessary depending on wood porosity to properly seal the wood before applying topcoats.

2nd Coat—6116 Clear or Ready-Mixed Color	D.F.T. varies
--	---------------

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Wood Floors (Interior)

1st Coat—6151 Clear or 6152 Neutral Gray diluted 1:1 with 6121 Standard Solvent	D.F.T. varies
---	---------------

NOTE: Two coats may be necessary depending on wood porosity to properly seal the wood before applying topcoats.

2nd Coat—6151 Clear or 6152 Neutral Gray	D.F.T. varies
--	---------------

NOTE: The above coating systems suggest primers and finishes which would be suitable for the general uses indicated with average expected conditions. Actual product selection and the number of coats used will depend on specific job conditions and the finish colors desired. Consult your Glidden representative for further information prior to specification and use.

For information on concrete floor applications refer to Protective Maintenance Coatings Data Sheet 8, Section 12 (Polyurethane) "GLID-THANE ONE Polyurethane Coatings No. 6100 Series for Concrete Floors."

IMPORTANT NOTE

Many of the GLID-THANE ONE ready-mixed colors contain acid sensitive pigments. If these coatings are exposed to acid fumes or subjected to frequent acid splash and spillage conditions, they must be topcoated with No. 6116 Clear if good color retention is required.

The following products are not affected by acid exposure—topcoating is not required:

6100 White, 6108 Vacuum Blue, 6115 Black, 6116 Clear (aliphatic), 6151 Clear (aromatic) and 6152 Neutral Gray. All other products must be topcoated with a clear for good color retention.

00217

APPLICATION

May be applied by brush (bristle or polyester), roller (woven or synthetic), conventional or airless spray on properly prepared and primed surfaces. Do not apply when air or substrate temperatures are below 50°F. Do not apply in excessively thick films (see Coverage section).

Roller Application

Bronze Knight® roller cover 81752 3/16" (or 70235 3/8") nap is preferred. Apply full wet coats carefully attempting to cover without holidays and leave it alone. Do not roll back into partially dried material. Touch up and sags should be picked up with a brush. Rolling back into partially dried material will cause cobwebbing and small bubbles.

NOTE: The preferred method of application for GLID-THANE ONE coatings on floors is with a No. 96365 Lamb's Wool Applicator or spray. Do not brush or roll 6152 Neutral Gray or 6116 and 6151 Clears.

SPRAY APPLICATION

Airless Spray

Glidden equipment is specified.

Gun: Glidden Super G

Fluid Tip: 415

Pump: Glidden "Sprint," Glidden "500," Glidden "750" or "750 GE", Glidden "Formula One"

Pressure: 1800-2100 psi.

Conventional Spray

DeVilbiss equipment is specified.

Gun: JGA-502 or (MBC)

Air Cap No.: 77 or (704)

Fluid Tip: AV-15-FF or AV 15-FX

Needle: JGA-402-FF

Fluid Pressure: 15 lbs. +

Atomization: 50 lbs. ±

THINNING

GLID-THANE ONE Finish Coats can be thinned with No. 6121 Standard Solvent up to 25% depending upon temperature at the time of use for improved application properties and hold open time. For hot, humid or windy conditions use No. 6122 Retarder Solvent.

COVERAGE

Recommended coverage (calculated) 400 sq. ft./gal. @ 1.5 mils dry or 300 sq. ft./gal. @ 2.0 mils dry. When computing working coverage, allow for application losses, surface irregularities, etc. Important: Applications in excess of recommended film thickness must be avoided as such applications may result in the formation of bubbles in the dried film.

DRYING AND CURING

Maintain the equivalent of at least 35 percent relative humidity at 70°F. over the coated surface for several hours. In dry climates or in heated indoor spaces during cold weather, humidification may be necessary. Do not permit any alcohol fumes to contact the coating during cure. Avoid airborne dust while the coating is still tacky. Cure rate may be accelerated by use of No. 6117 Catalyst—approximately 1 1/2 ounces per gallon.

At low humidities, especially less than 30%, the No. 6117 catalyst level should be increased to 3 ounces per gallon.

The No. 6100 Aliphatic GLID-THANE ONE series of coatings dries to touch in 2 hours and to handle in 9-14 hours (77°F. @ 30-60% R.H.). May require up to 24 hours for light traffic when applied on floors.

The No. 6151 and 6152 Aromatic coatings will permit light traffic in 12 hours (77°F. @ 30-60% R.H.). Normal usage can be permitted in 36 to 48 hours. Six to seven days are required for full cure.

RECOAT TIME

May be recoated after three to four hours drying at room temperature with 30-60 percent relative humidity and good air circulation. Use of heat and/or catalysts can shorten recoat times. Recoating must be accomplished within 24 hours for Aromatic and one week for Aliphatic coatings for maximum intercoat adhesion and minimum contamination.

CLEAN-UP

All equipment should be cleaned immediately after use with No. 6121 Standard Solvent, xylene, toluene or a ketone.

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CHEMICAL RESISTANCE

Environment	Splash or Spillage	Fumes or Vapors
Solvents		
Aliphatic Gasoline Hexane JP-4 Brake Fluid	S S S S S	S S S S S
Aromatic Xylo Toluol	S S	S S
Chlorinated Trichloroethylene Carbon Tetrachloride	S S	S S
Alcohols Methyl Alcohol Ethyl Alcohol Ethylene Glycol Glycerol	S S S S S	S S S S S
Ketones and Esters Acetone Methyl Ethyl Ketone Ethyl Acetate Cellulosolve Acetate	S S S S S	S S S S S
Miscellaneous Nitropropane Turpentine	S S	S S

Code: S Satisfactory NR Not Recommended

Recommendations are for conditions normally found in atmospheric corrosion protection. This includes splash, spillage, and other limited contact with corrosive materials found in industrial plants. All data recorded for ambient temperatures except as noted. Recommendations do not hold for immersion although in some instance the specified coating may be satisfactory. To be sure, ask your Glidden representative.

Environment	Concentration (%)	Splash or Spillage	Fumes or Vapors
Acids, Inorganic			
Hydrochloric	10 35	S S	S S
Sulfuric	10 35	S S	S S
Phosphoric	10 50	S S	S S
Citronic	2 10	S NR	S S
Nitric	2 10	S NR	S S
Acids, Organic			
Lactic	10	S	S
Acetic	5 10 Glacial	S S NR	S S S
Citric	10	S	S
Oleic		S	S
Maleic		S	S
Alkalies			
Ammonium Hydroxide	10 50	S L	S S
Ammonia		S	S
Sodium Hydroxide	10 50	S S	S S
Salts			
Sodium Chloride	20	S	S
Calcium Chloride	20	S	S
Ferric Chloride	20	G	S
Trisodium Phosphate	10	G	S
Miscellaneous Chemicals			
Tide Solution (180°F.)	1	S	S
Sodium Hydrochloride Solution	1	G	S
Sea Water (Synthetic)		S	S
Sugar Solution	10	S	S
Water (160°F.)		S	S
Freon	100	S	S
Sour Crude Oil		S	S
Chlorine Gas (Wet or Dry)		S	S

Code: S Satisfactory NR Not Recommended L Limited

PHYSICAL TESTS

Resistance to 5% Salt Fog (1000 hrs. ASTM, D714)	No Effect
Abrasion Resistance (ASTM C501-88: CS-17 Wheel, 1000 gm load, 1000 Rev.)	13-42 mg. loss depending upon color
Graffiti Resistance	Excellent
Artificial Weathering (1000 hrs. Weather-O-meter®)	Good-Excellent
Natural Exterior Weathering (Florida, 3 yrs. 45°)	Excellent
-20°F. Cold Flex on Mandrel	Passes 1/8 inch
GE Direct & Reverse Impact (80% elongation)	Pass
Gardner Direct & Reverse Impact (180 inch-pounds)	Pass

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TECHNICAL DATA		GLD-THERM 6151 Clear Aromatic	GLD-THERM 6152 Aromatic	GLD-THERM 6160 White	GLD-THERM 6161 Clear Aromatic	GLD-THERM 6115 Black
Product No.		Y6151	Y6152	Y6160	Y6161	Y6115
Resin Type		Urethane-Miscure Cure	Urethane-Miscure Cure	Urethane-Miscure Cure	Urethane-Miscure Cure	Urethane-Miscure Cure
Color		Clear	Gray	White	Clear	Black
Shore or Class		Approx. 90-100 @ 60°	Approx. 85-100 @ 60°	Approx. 90-100 @ 60°	Approx. 90-100 @ 60°	Approx. 90-100 @ 60°
Percent Solids by Weight		40-44%	51-55%	52-56%	30-35%	41-45%
Percent Solids by Volume		35%	49%	35%	30%	31%
Theoretical Coverage per One Mil Dry Film— By Fluid.		12.5 sq ft	12.5 sq ft	12.5 sq ft	12.5 sq ft	12.5 sq ft
Recommended Coverage (Estimated) Mil Dry Film— By Fluid.		1.5-2.0 (0.35-0.7) 200-373	1.5-2.0 (0.35-0.7) 314-422	1.5-2.0 (0.35-0.7) 314-422	1.5-2.0 (0.35-0.7) 200-320	1.5-2.0 (0.35-0.7) 251-381
Notes: Compacting surface coverage; allow for application losses; surface irregularities, etc.						
Percent Volume (Estimated) by Weight		42%	37.8%	31.5%	34.5%	41.3%
Percent Weight by Weight		—	14.7%	20.5%	—	2.2%
Percent Solids by Weight		50%	42.5%	46.2%	35.5%	50.5%
Viscosity		50-100 CPS	100-400 CPS	100-400 CPS	30-125 CPS	100-400 CPS
Weight per Gallon		8.0-8.4 lbs.	8.7-9.2 lbs.	9.3-9.5 lbs.	7.8-8.0 lbs.	7.9-8.2 lbs.
Flash Point—Open Cup		—	—	—	—	—
Flash Point—Closed Cup		63°F.	59°F.	67°F. Selfflash	80°F.	72°F. Ready Mix
Drying Time— (Based 77°F., 50% R.H.)		2-3 hrs. Touch 4-6 hrs. Handle Recoat Full Cure, Min. Full Cure, Days Full Cure, Weeks.	2-4 hrs. 6-12 hrs. 2-4 hrs. 77°F., 2-7 days	15 hrs. 9-14 hrs. 2-4 hrs. 77°F., 1-3 weeks	2 hrs. 7-12 hrs. 2-4 hrs. 77°F., 1-3 weeks	2 hrs. 3-11 hrs. 2-4 hrs. 77°F., 1-3 weeks
Reduction		No. 6171 Standard Solvent	No. 6171 Standard Solvent	No. 6171 Standard Solvent	No. 6171 Standard Solvent	No. 6121 Standard Solvent
Clean-Up Solvent		No. 6171 Standard Solvent, Xylene, Toluene or a Ketone	No. 6171 Standard Solvent, Xylene, Toluene or a Ketone	No. 6171 Standard Solvent, Xylene, Toluene or a Ketone	No. 6171 Standard Solvent, Xylene, Toluene or a Ketone	No. 6121 Standard Solvent, Xylene, Toluene or a Ketone
Type of Cure		Miscure Curing Urethane	Miscure Curing Urethane	Miscure Curing Urethane	Miscure Curing Urethane	Miscure Curing Urethane
Typing		Do not test	Do not test	Do not test	Do not test	Do not test

LIMITATION OF LIABILITY
To the best of our knowledge the technical data contained herein are true and accurate at the date of issuance but are subject to change without prior notice. We guarantee our product to conform to GEI's specifications. WE MAKE NO OTHER WARRANTY OR GUARANTEE OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE. Liability, if any, is limited to replacement of the product or refund of the purchase price. LABOR OR COST OF LABOR AND OTHER CONSEQUENTIAL DAMAGES ARE HEREBY EXCLUDED.

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NON-SLIP SURFACES

In those areas where the surface may be walked upon and is likely to become slippery when wet with oil, grease, water, or other substances, an abrasive grain should be incorporated into the film. The abrasive grain is distributed over the first coat while it is still wet and fluid. A seed spreader or similar device may aid even distribution. Excessive grains may be swept off before application of second coat.

The abrasive material which has proven most satisfactory is 50/70 Sidewalk Grain Aluminum Oxide. A smaller size grain may be preferred for some applications. Number 2 Silica Sand is satisfactory but does not retain its non-slip properties as well as Aluminum Oxide.

FOR BEST RESULTS AND SAFEST USAGE, USER IS SPECIFICALLY DIRECTED TO CONSULT THE CURRENT MATERIAL SAFETY DATA SHEET FOR THIS PRODUCT. EMERGENCY PHONE: (216) 826-6666

WARNING! FLAMMABLE PAINT, VAPOR AND SPRAY MIST HARMFUL. MAY CAUSE PERMANENT LUNG DAMAGE AND ALLERGIC RESPIRATORY REACTION. IRRITATES EYES, SENSITIZES SKIN, DEPENDING ON COLOR, MAY CONTAIN XYLENE, TOLUENE, METHYL ISOBUTYL KETONE, 2-ETHOXYETHYL ACETATE, ETHYLBENZENE, BUTYL ACETATE, FREE AROMATIC OR ALIPHATIC DIISOCYANATE, ORGANIC TIN COMPOUNDS, CARBON BLACK, AROMATIC HYDROCARBON BLEND, TITANIUM DIOXIDE, CHROMATES, MINERAL SPIRITS AND ALUMINUM PIGMENT.

Keep away from heat, sparks and open flame. Do not smoke. Vapors may ignite explosively. Extinguish all flames, burners, stoves, heaters and pilot lights and disconnect all electrical motors and appliances before use and until all vapors are gone. Use portable explosion-proof lighting and ventilating equipment connected to exterior self-contained power source. Non explosion-proof equipment must be placed well away from areas where vapors may collect. Use non-ferrous tools and wear conductive and non-sparking shoes in areas where explosion hazards exist. Vapors may spread long distances.

Keep closures tight and upright to prevent leakage. Keep container closed when not in use. Store below 100°F. Do not incinerate closed containers as they may explode when exposed to extreme heat or fire. In case of spillage, absorb and dispose of in accordance with applicable regulations.

DO NOT USE IF YOU HAVE CHRONIC (LONG-TERM) LUNG OR BREATHING PROBLEMS, OR IF YOU HAVE EVER HAD A REACTION TO ISO-CYANATES. AVOID CONTACT WITH SKIN AND EYES. Wear impervious clothing, footwear and equipment including gloves and splashproof goggles to prevent skin and eye contact. Do not take internally. Avoid breathing of vapor or spray mist. Wear an appropriate properly fitted respirator approved by NIOSH/MSHA while exposed. An airline respirator (TC 19C NIOSH/MSHA) is recommended. A vapor particulate respirator (TC 23C NIOSH/MSHA) may be appropriate where airborne monitoring demonstrates vapor levels below ten times the applicable exposure limits. Follow directions for respirator use. Provide sufficient ventilation to prevent build-up of vapors.

FIRST AID: In case of skin contact, IMMEDIATELY wipe areas with clean cloth and wash thoroughly with soap and water; for eyes, flush with water for 15 minutes and GET MEDICAL ATTENTION. If swallowed, GET MEDICAL ATTENTION IMMEDIATELY. If inhaled, remove to fresh air. If not breathing, give artificial respiration and GET EMERGENCY MEDICAL ASSISTANCE.

USE ONLY WITH ADEQUATE VENTILATION. KEEP OUT OF REACH OF CHILDREN

For Nos. 6101, 6102, 6105, 6107, 6112, 6114, 6136 and 6138

WARNING! CONTAINS LEAD

Dried film of this paint may be harmful if eaten or chewed. **DO NOT** use on toys, furniture or surfaces of other articles which might be chewed by children. **DO NOT** apply to interior or exterior surfaces of dwelling units such as window sills, porches, stairs or railings to which children may be commonly exposed. Wash hands thoroughly after using and before smoking or eating.

For Nos. 6100, 6101, 6102, 6105, 6107, 6108, 6112, 6116, 6118, 6136, 6138, 6161 and 6162

WARNING! Contains one or more of the following: 2-METHOXYETHANOL, 2-ETHOXYETHANOL OR THEIR ACETATES. Wear impervious clothing and equipment to prevent eye and skin contact. Exposure controls may require use of a NIOSH approved combination vapor particulate or supplied air respirator. Reproductive and blood disorders and birth defects have been observed in tests on laboratory animals with 2-methoxyethanol, 2-ethoxyethanol or their acetates.

For No. 6117

DANGER! FLAMMABLE, VAPOR HARMFUL, MAY IGNITE EXPLOSIVELY, CAN CAUSE IRRITATION OF EYES, SKIN AND RESPIRATORY TRACT. CONTAINS XYLENE, ORGANIC TIN COMPOUNDS AND METHYL ETHYL KETONE.

Keep away from heat, sparks and open flame. Do not smoke. Vapors may ignite explosively. Extinguish all flames, burners, stoves, heaters and pilot lights and disconnect all electrical motors and appliances before use and until all vapors are gone. Use portable explosion-proof lighting and ventilating equipment connected to exterior self-contained power source. Non explosion-proof equipment must be placed well away from areas where vapors may collect. Use non-ferrous tools and wear conductive and non-sparking shoes in areas where explosion hazards exist. Vapors may spread long distances.

Keep closures tight and upright to prevent leakage. Keep container closed when not in use. Store below 100°F. Do not incinerate closed containers as they may explode when exposed to extreme heat or fire. In case of spillage, absorb and dispose of in accordance with local applicable regulations. **DO NOT TRANSFER CONTENTS TO UNMARKED CONTAINERS.**

Avoid contact with eyes and skin. Wear impervious clothing, footwear and equipment including gloves and splash-proof goggles to prevent eye and skin contact. Do not take internally. Avoid breathing of vapor or spray mist. In open areas use paint spray mask and approved chemical-mechanical filter. In enclosed or confined areas use NIOSH/MSHA approved supplied air respirators and provide sufficient ventilation to prevent build-up of vapors.

FIRST AID: In case of skin contact, wipe area with clean cloth and wash thoroughly with soap and water; for eyes, flush with water for 15 minutes and GET MEDICAL ATTENTION. If swallowed, GET MEDICAL ATTENTION IMMEDIATELY. If inhaled, remove to fresh air. If not breathing, give artificial respiration and GET EMERGENCY MEDICAL ASSISTANCE.

USE ONLY WITH ADEQUATE VENTILATION. KEEP OUT OF REACH OF CHILDREN.

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APPENDIX D-3
BUILDINGS 479 SPECIFICATIONS

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DIV. OF HAZARDOUS
WASTE MGT.

00222

INCOMPATIBILITY OF COMMON LABORATORY CHEMICALS

When certain hazardous chemicals are stored or mixed together, violent reactions may occur because the chemicals are unsuitable for mixing, or are incompatible. Classes of incompatible chemicals should be segregated from each other during storage, according to hazard class. Use the following general guidelines for hazard class storage:

- Flammable/Combustible Liquids and Organic Acids
- Flammable Solids
- Mineral Acids
- Caustics
- Oxidizers
- Perchloric Acid
- Compressed Gases

CHEMICAL	INCOMPATIBLE CHEMICAL(S)
Acetic acid	aldehyde, bases, carbonates, hydroxides, metals, oxidizers, peroxides, phosphates, xylene
Acetylene	halogens (chlorine, fluorine, etc.), mercury, potassium, oxidizers, silver
Acetone	acids, amines, oxidizers, plastics
Alkali and alkaline metals	acids, chromium, ethylene, halogens, hydrogen, mercury, earth nitrogen, oxidizers, plastics, sodium chloride, sulfur
Ammonia	acids, aldehydes, amides, halogens, heavy metals, oxidizers, plastics, sulfur
Ammonium nitrate	acids, alkalis, chloride salts, combustible materials, metals, organic materials, phosphorous, reducing agents, urea
Aniline	acids, aluminum, dibenzoyl peroxide, oxidizers, plastics
Azides	acids, heavy metals, oxidizers
Bromine	acetaldehyde, alcohols, alkalis, amines, combustible materials, ethylene, fluorine, hydrogen, ketones (acetone, carbonyls, etc.), metals, sulfur
Calcium oxide	acids, ethanol, fluorine, organic materials

CHEMICAL	INCOMPATIBLE CHEMICAL(S)
Carbon (activated)	alkali metals, calcium hypochlorite, halogens, oxidizers
Carbon tetrachloride	benzoyl peroxide, ethylene, fluorine, metals, oxygen, plastics, silanes
Chlorates	powdered metals, sulfur, finely divided organic or combustible materials
Chromic acid	acetone, alcohols, alkalis, ammonia, bases
Chromium trioxide	benzene, combustible materials, hydrocarbons, metals, organic materials, phosphorous, plastics
Chlorine	alcohol's, ammonia, benzene, combustible materials, flammable compounds (hydrazine), hydrocarbons (acetylene, ethylene, etc.), hydrogen peroxide, iodine, metals, nitrogen, oxygen, sodium hydroxide
Chlorine dioxide	hydrogen, mercury, organic materials, phosphorous, potassium hydroxide, sulfur
Copper	calcium, hydrocarbons, oxidizers
Hydroperoxide	reducing agents
Cyanides	acids, alkaloids, aluminum, iodine, oxidizers, strong bases
Flammable liquids	ammonium nitrate, chromic acid, hydrogen peroxide, nitric acid, sodium peroxide, halogens
Fluorine	alcohol's, aldehydes, ammonia, combustible materials, halocarbons, halogens, hydrocarbons, ketones, metals, organic acids
Hydrocarbons (Such as butane, propane benzene, turpentine, etc.)	acids, bases, oxidizers, plastics
Hydrofluoric acid	metals, organic materials, plastics, silica (glass), (anhydrous) sodium
Hydrogen peroxide	acetylaldehyde, acetic acid, acetone, alcohol's carboxylic acid, combustible materials, metals, nitric acid, organic compounds,

CHEMICAL**INCOMPATIBLE CHEMICAL(S)**

	phosphorous, sulfuric acid, sodium, aniline
Hydrogen sulfide	acetaldehyde, metals, oxidizers, sodium
Hypochlorites	acids, activated carbon
Iodine	acetaldehyde, acetylene, ammonia, metals, sodium
Mercury	acetylene, aluminum, amines, ammonia, calcium, fulminic acid, lithium, oxidizers, sodium
Nitrates	acids, nitrites, metals, sulfur, sulfuric acid
Nitric acid	acetic acid, acetonitrile, alcohol's, amines, (concentrated) ammonia, aniline, bases, benzene, cumene, formic acid, ketones, metals, organic materials, plastics, sodium, toluene
Oxalic acid	oxidizers, silver, sodium chlorite
Oxygen	acetaldehyde, secondary alcohol's, alkalis and alkalines, ammonia, carbon monoxide, combustible materials, ethers, flammable materials, hydrocarbons, metals, phosphorous, polymers
Perchloric acid	acetic acid, alcohols, aniline, combustible materials, dehydrating agents, ethyl benzene, hydriotic acid, hydrochloric acid, iodides, ketones, organic material, oxidizers, pyridine
Peroxides, organic	acids (organic or mineral)
Phosphorus (white)	oxygen (pure and in air), alkalis
Potassium	acetylene, acids, alcohols, halogens, hydrazine, mercury, oxidizers, selenium, sulfur
Potassium chlorate	acids, ammonia, combustible materials, fluorine, hydrocarbons, metals, organic materials, sugars
Potassium perchlorate also see chlorates)	alcohols, combustible materials, fluorine, hydrazine, metals, organic matter, reducing agents, sulfuric acid
Potassium permanganate	benzaldehyde, ethylene glycol, glycerol, sulfuric acid

CHEMICAL**INCOMPATIBLE CHEMICAL(S)**

Silver	acetylene, ammonia, oxidizers, ozonides, peroxyformic acid
Sodium	acids, hydrazine, metals, oxidizers, water
Sodium nitrate	acetic anhydride, acids, metals, organic matter, peroxyformic acid, reducing agents
Sodium peroxide	acetic acid, benzene, hydrogen sulfide metals, oxidizers, peroxyformic acid, phosphorous, reducers, sugars, water
Sulfides	acids
Sulfuric acid	potassium chlorates, potassium perchlorate, potassium permanganate

References:

Material Safety Data Sheets, various chemical companies.

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APPENDIX D-4
CHEMICAL COMPATABILITY GUIDELINES

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SECTION E
GROUNDWATER MONITORING

The requirements of 40 CFR 264.90 and OAC 3745-54-90 for groundwater monitoring are not applicable to the hazardous waste management units covered in this application for WPAFB. All wastes will be containerized. No surface impoundments, landfills, or land treatment activities will exist at this facility.

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SECTION F

PROCEDURES TO PREVENT HAZARDS

The information provided in this section is submitted in accordance with the requirements of 40 CFR 270.14 (b)(4), (5), (6), (8), and (9), and OAC 3745-54-32 to 37. Other regulations addressed to complete this section include 40 CFR 264.14, 264.15, 264.17, 264.194, and 264.254.

This section addresses general security provisions; inspection schedules; the spill prevention and containment plan; and the prevention of accidental ignition or reaction of ignitable, reactive, or incompatible wastes.

F-1 Security

Security procedures to be implemented in order to prevent hazards are described below.

F-1a Security Procedures and Equipment [40 CFR 270.14(b)(4) and 264.14]

A waiver of the security requirements is not requested.

F-1a(1) 24-Hour Surveillance System [40 CFR 264.14(b)(1)]

Building 479 is located within fenced and secured areas. Wright-Patterson AFB is responsible for onsite security to control entry, at all times, through the secured gates or other entrances to the active portion of the entire installation. The Security Forces Squadron will patrol Building 479 and will control entry onto the active portion of Building 479 during hours of non-operation. The patrol will be performed year-round, and will check the fence line and buildings. The procedures and personnel used will be determined by the Security Forces Squadron. Security Forces will notify the ~~real property building manager (RPBM)~~ FACILITY MANAGER, who is an Asset INSTALLATION Management Division employee, of anyone requesting access to Building 479 and the RPBM FACILITY MANAGER will determine if access is granted and accompany that person to the area.

F-1a(2) Barrier and Means to Control Entry [40 CFR 264.14(b)(2)(i)]

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F-1

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OHIO EPA
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F-1a(2)(a) Barrier --

A 6-foot-high metal chain-link fence topped with three strands of barbed wire encircles the property of Building 479 as shown on Figure F-1.

F-1a(2)(b) Means to Control Entry [40 CFR 264.14(b)(2)(ii)] --

During duty hours anyone entering Building 479 will be required to sign in on the log sheet. Access to the Building 479 area is provided by two gates, with direct access to the inside of Building 479 provided by two overhead doors and one personal door on the northern side and a personal door on the western side. The gates to Building 479 will be locked during non-duty hours. All doors to Building 479 will be kept locked unless the building is occupied by personnel. The locks used for Buildings 478/479 can be opened by one key giving access to both buildings.

F-1a(3) Warning Signs [40 CFR Section 264.14(c)]

Warning signs with the legend, "Danger - Unauthorized Personnel Keep Out," are posted at the entrances to Building 479. These signs are visible from 25 feet and are printed in English.

F-1b Waiver [40 CFR 264.14(a)]

Wright-Patterson does not request a waiver.

F-2 Inspection Schedule [40 CFR 270.14(b)(5) and 264.15]

Table F-1 presents the General Inspection Schedule for inspecting safety and emergency equipment, security devices, operating and structural equipment, monitoring equipment, communication equipment, and mobile equipment at Building 479. Items listed in Table F-1 are important because of their role in preventing, detecting, or responding to environmental or human health hazards.

SCALE
0 20' 40'
10' 30' 50'

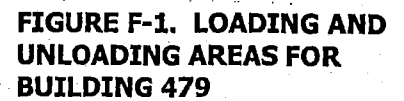


TABLE F-1. EXAMPLE GENERAL INSPECTION SCHEDULE

Area/Item	Types of Problems	Frequency of Inspection
Face Shields & Chemical Goggles	Broken, Damaged, or Missing	Weekly
Protective Clothing	Missing, Unserviceable	Weekly
Absorbents (e.g., Clay, Pads)	Present and Accessible	Weekly
Emergency Shower/Eyewash	Leaking, Flushed	Weekly
Ventilation System	Not Operating, Blocked	Weekly
Non-Sparking Shovel	Missing, Damaged	Weekly
Non-Sparking Bung Wrench	Missing, Damaged	Weekly
Fire Extinguishers	Not Mounted, Missing, Not Charged	Weekly
Fire Alarm System	Not Operating, In Alarm	Weekly
Telephone System	Not Operating	Weekly
Warning Signs	Missing, Illegible	Weekly
Security Lights	Not Operating	Weekly
Doors, Locks, Fence, and Gates	Locks Missing, Signs of Tampering	Weekly
General Debris & Refuse	General Housekeeping	Weekly
Containment Trenches, Roof, Walls	Evidence of Leakage, Unobstructed	Weekly
Containers	Structural Damage, Sealed, Leaking	Weekly
Labeling of Containers	Start Date, Date in EPA Waste Code	Weekly
Load/Unload Area	Evidence of Spills, Safe and Clean	Weekly
Aisle Space	3 ft, Clean, Unobstructed	Weekly
Container Segregation	Hazard Classes Separated	Weekly
General Lighting	Burned out, Not Operating	Weekly
Surrounding Area Cleanliness	Policing of Perimeter	Weekly

F-2a General Inspection Requirements [40 CFR 264.15(a)] and (b) and 270.14(b)(5)]

Facility personnel will conduct regular inspections at its proposed facility and Building 479 for equipment malfunctions, structural deterioration, operator errors, the number of drums in each storage area or bay and discharges that could cause or lead to the release of hazardous waste constituents and adversely affect the environment or threaten human health. Inspection log sheets are shown in Appendix F-1. Current calendar year inspection log sheets are kept at the storage facilities.

F-2a(1) Types of Problems [40 CFR 264.15(b)(3)]

Table F-1 presents an example schedule for inspection of monitoring equipment, safety and emergency equipment, security devices, operating and structural equipment, and container storage areas. Items listed in the tables are considered important because of their role in preventing, detecting, or responding to environmental or human health hazards. Provided with each item is a list of problems normally encountered.

F-2a(2) Frequency of Inspection [40 CFR 264.15(b)(4)]

Also provided in Table F-1 is the suggested frequency of inspection for each item. The frequency depends upon equipment deterioration, environmental or human health incidences, or equipment malfunction between inspections. The frequency of inspection will increase when problems are discovered. The loading/unloading dock will be constantly observed by facility personnel when in use. As a minimum, a complete visual inspection of the hazardous property, facility storage areas, personal protection clothing and equipment will be made weekly. Container labels and material compatibility will be inspected upon receipt as well as weekly.

F-2b Specific Process Inspection Requirements [40 CFR 270.14(b)(5) and 264.15(b)(4)]

The only specific process inspection item to be discussed below is container inspection. Table F-2 lists the Specific Process Inspection Schedule for Building 479. Inspections of waste piles, surface impoundments, incinerators, landfills, and land treatment facilities are not applicable to this

TABLE F-2. SPECIFIC PROCESS INSPECTION SCHEDULE

Area/Equipment	Specific Item	Types of Problems	Frequency of Inspection
Container Storage Area	Container placement and stacking	Insufficient aisle space, height of stacks excessive	Weekly
	Sealing of containers	Open lids	Weekly*
	Labeling of containers	Improper identification, accumulation date, data missing, label missing, not intact, or not readable	Weekly*
	Containers	Corrosion, leakage, structural defects, number of containers per area/bag	Weekly*
	Trays/liners	Corrosion, leakage, structural defects	Weekly
	Racks	Stability, structural defects	Weekly
	Segregation of incompatible wastes	Storage of incompatible wastes in same area	Weekly*
	Pallets	Damaged (e.g., broken wood, warping nails missing)	Weekly
	Fence, gate and lock	Corrosion, damage to chain-link fence; sticking or corroding lock	Weekly*
	Base or foundation	Cracks, spalling, uneven settlement	Weekly*
	Debris and refuse	Aesthetics, possible reaction with leaks	Weekly
	Ramps	Cracks, spalling, uneven settlement, erosion	Weekly*
	Warning signs	Damaged, illegible	Weekly*

* Daily when loading/unloading

permit application because none of these exist at Building 479. Tanks will not be used to store hazardous waste at WPAFB.

F-2b(1) Container Inspection [40 CFR 264.174]

Inspections of the container storage area will be conducted weekly in accordance with Table F-2 by an employee trained in hazardous waste management procedures. (Refer to Section H of this document for details regarding personnel training.) Other information contained in Table F-2 includes a summary of the anticipated problems discovered during inspection of the containers and the frequency of inspection.

All results of the general (Section F-2a) and specific process (Section F-2b) inspections will be recorded on log sheets (Appendix F-1), which are stored at Building 479. Information on these log sheets includes the name of the inspector, date and time of inspection, item, problems observed, and the date and nature of repairs and remedial action(s). All inspection logs will be maintained at the facility for a minimum of three years.

F-2b(2) Tank Inspection [40 CFR 264.194]

This section is not applicable because this facility will not store hazardous wastes in tanks.

F-2b(3) Waste Pile Inspection [40 CFR 264.254, 270.14(b)(5), and 270.18(e)]

This section is not applicable because this facility will not maintain any waste piles.

F-2b(4) Surface Impoundment Inspection [40 CFR 270.14(b)(5) and 270.17(d) and 264.226(b)]

No surface impoundments will be maintained at this facility.

F-2b(5) Incinerator Inspection [40 CFR 264.347]

No incinerators will be maintained at this facility.

F-2b(6) Landfill Inspection [40 CFR 270.21(d), 264.15(a) and 264.303]

No landfills will be used at this facility.

F-2b(7) Land Treatment Inspection [40 CFR 270.20(c)(5) and 264.273(g)]

No land treatment of wastes will occur at this facility.

F-2c Remedial Action [40 CFR 264.15(c)]

If inspections reveal that non-emergency maintenance is needed, the Asset INSTALLATION Management Division will initiate immediate action(s) to preclude further damage and to reduce the need for emergency repairs. If a hazard is imminent, or has already occurred, remedial action(s) will immediately be taken. Appropriate authorities will be notified according to the Contingency Plan (see Section G). In the event of an emergency involving the release of hazardous substances to the environment, efforts will be directed towards containing the hazard, removing it, and subsequently decontaminating the affected area. These procedures are also outlined in the Contingency Plan (see Section G).

F-2d Inspection Log [40 CFR 264.15(d) and 264.73(b)(5)]

Inspection log notebooks kept onsite at Building 479 for at least 3 years. Appendix F-1 indicates that the inspection log requires the date and time of inspection, the name of the inspector, the items inspected, a notation of the observations made, and the date and nature of any repairs or other remedial actions.

F-3 Waiver of Preparedness and Prevention Requirements [40 CFR 270.14(b)(6)]

This applicant does not request a waiver of the preparedness and prevention requirements under 40 CFR Part 264, Subpart C.

F-3a Equipment Requirements [40 CFR 264.32]

F-3a(1) Internal Communications

Near the entrance door to both Buildings 478 and 479, telephones provide internal communication capability with other base operations that may be called upon to assist in an emergency.

Immediate emergency instruction will be provided at Buildings 478/479 by voice. Telephones are located at both Buildings 478 and 479 that can be used to contact base emergency response organizations.

F-3a(2) External Communications

The Buildings 478/479 telephone system will also provide external communication capability for the purpose of calling for assistance, if and when needed. The telephone system complies with 40 CFR 264.30(b) and OAC 3745-54-32(B).

Should the telephones located at Buildings 478 and 479 be unreachable or unusable, nearby buildings (numbers 156, 470, or 157) can provide a phone for communication purposes. During all waste handling operations, a minimum of two people serve on the work crews.

Typically, WPAFB would not contact outside or off base agencies for assistance since the base can provide emergency response services, such as a fire department, hospital, ambulance service, and Security Forces Squadron to respond to an emergency at the storage facility. These services are described in the facility contingency plan provided in Section G. However, the base does have an internal radio network that can simultaneously notify local community police departments, county sheriff, and the Ohio State Patrol. They would be contacted by the base Security Forces Squadron to offer assistance in establishing roadblocks and off base evacuation.

Access to communications equipment is provided during normal operating hours by the base telephone system. During non-operating hours, surveillance and emergency communications are provided by the base Security Forces Squadron inter-city radio that can be used to simultaneously contact local police departments, the County sheriff, and Ohio State Patrol to assist in establishing off base roadblocks and in evacuating potentially affected communities, if necessary.

F-3a(3) Emergency Equipment

Fire, spill control, and decontamination equipment is discussed in Section G-5 for Building 479. Table F-3 presents the equipment list for Building 479.

TABLE F-3. FACILITY EMERGENCY EQUIPMENT LIST FOR BUILDING 479

	Item	Quantity	Purpose
1. Spill Control	Hazard pillows	10 pillows	For absorbing chemical leaks or spills
	Speedie Dry	5 50# bags	Absorbs oil, fuel, and some chemicals
	Laboratory Spill Kit	1	Testing caustic, acid & solvent spills
	Empty drums	5-55 gallons (minimum)	For the storage of material from leaking drums and spill situations
	Hand tools: shovel, bung wrench, etc.	1 each	For both routine operations and spill situations
2. Safety and Emergency Equipment	Eye wash and shower	1	To flush the eye or whole body with water in case of inadvertent contact with chemicals
	Telephone	1	Located outside the facility near the front door, it provides communication with other base facilities
	Fire extinguishers	3 4	THREE ABC grade fire extinguishers AND ONE CLASS D FIRE EXTINGUISHER are available for the purpose of all small fires
	Fire alarm	1	Activation of alarm notifies Fire Station No. 4 in Area B of the base
	Personnel Protective Equipment	(Required Minimum Quantities)	Necessary to protect the human body from exposure to hazardous chemicals
	Respirator	2	
	Surgical gloves	20 pairs	
	Face shield	1	
	Hand gloves	3 pair	
	Goggles	2	
	Plastic apron	2	

F-3a(4) Water for Fire Control

As an operating practice, smoking is banned on the premises of the storage facilities. This practice, together with the availability of fire-fighting equipment at the facility and on the base, contributes to minimizing and controlling fires at the facility.

In Building 479, THREE ABC fire extinguishers AND ONE CLASS D FIRE EXTINGUISHER are available. A planned inventory is shown in the contingency plan. Fire extinguishers are inspected at least weekly for ready condition in accordance with the Facility Inspection Plan in Table F-1. Any noted deficiencies are repaired.

Additionally, Buildings 478/479 have an automatic fire suppression system. The fire suppression system for Buildings 478 and 479 was designed per the requirements of NFPA 30, "Flammable and Combustible Liquids Code." The fire suppression media will be a foam solution consisting of 3% alcohol foam concentrate and 97% water. The system has a supply density of 0.3 gpm per square foot with enough capacity to provide a 15 minute foam supply over a 2,000 square foot area.

The foam system is located in Building 478 in an equipment room with a 2-hour fire rated walls, with access to the room from the outside of the building only. The fire suppression system is an air pressurized, dry pipe system. When a sprinkler head opens, air pressure is released, causing the dry pipe valve to open and fill the sprinkler piping system. The foam solution is then dispersed through the open sprinkler head(s) to Buildings 478 and 479. Standard sprinkler heads are used and are located just below each building's roof structure with a maximum spacing of 100 square foot per head. The sprinkler heads will activate at 165° F. Water flow will activate an audible alarm bell and send a signal to the building's fire alarm panel.

A fire department connection to the foam system and a fire hydrant is installed at the intersection of 13th Street and the Access Road to the building. Appendix B-1 provides specifications on the fire suppression system.

A fire alarm near the door of Building 478, when pulled, automatically informs the base Fire Department of an emergency and dispatches the nearest available response team with fire-fighting equipment to the facility. There are three fire stations on the base, with the nearest station, No. 3, approximately 1/4 mile from the facility.

This proximity means that emergency response at the facility can be very rapid. An additional description of this system is provided in the Contingency Plan. Water for fire control is available through use of the base's water supply lines and two fire hydrants located near the facility. One fire hydrant is located near Building 470, approximately 800 feet from the storage facility. A second fire hydrant is located near Building 156, approximately 550 feet from the storage facility. The water line and/or hydrants can be tapped by the base's fire department to provide adequate volume and pressure to supply a water hose stream if necessary. These hydrants are capable of producing pressure volume of 2,000 gallons/minute with an available residual pressure of 20 psi. Map 8 identifies the locations of these features closest to Building 479. The base water supply is obtained from onsite ground water wells. The locations of the base water supply wells are shown on Map 3.

F-3b Aisles Space Requirements [40 CFR 264.35]

In Building 479, all containers will be accessible to fire and spill control equipment. As shown in Figure 4-1, Building 479 is a four-sided structure, and is provided with 2 doors that provide access to emergency response equipment.

Building 479 incorporates a minimum of 3 feet of aisle space between each row of pallets containing 55-gallon drums or shelving units holding small containers of non-flammable waste. A minimum of 4 feet of aisle space will be maintained between pallets or shelving units holding small containers containing flammable waste in accordance with NFPA standards. This aisle space is sufficient to permit an inspector to walk the length of each bay. In Building 479, aisle spaces are sufficient to allow unobstructed movement of personnel not only during loading and unloading, but also during facility inspections and emergency response actions. Workmen are instructed to keep aisles clear of obstructions at all times.

F-4 Preventive Procedures, Structures, and Equipment [40 CFR 270.14(b)(8)]

See Section G-5.

F-4a Loading and Unloading Operations [40 CFR 270.14 (b)(8)(i)]

All containers when loaded or unloaded will be sealed; containers will be stored on wooden pallets approximately 4 feet by 4 feet in size. All containers in Building 479 may be stored on either pallets or shelving units. The pallets with wastes can easily be lifted onto or off trucks and storage racks using a forklift. The forklifts used for hazardous waste storage handling will be designed as EE, per 29 CFR 1910.178, and will have a 4,000 pound capacity with extended reach and drum grabbers if a forklift or drum dolly cannot be used. The forklifts allow personnel to stack at any height on the racks from floor level to the third tier with equal ease.

Wastes that are transported to the storage facility ~~by base personnel~~ are delivered in small quantities, either in small containers, such as 5-gallon cans or pint jars, or in 55-gallon drums. A loading dock is designed to facilitate movement of 55-gallon drums to or from building 479. The drums are unloaded manually by base personnel with the use of a pallet mover or a drum cart. Once a drum is offloaded, the pallet mover, a drum cart, or forklift would be used to position the drum(s) into the storage bay designated for that waste type. Small containers, such as 5-gallon paint cans, are designated for storage within Building 479. The waste containers would be unloaded by hand and carried into the building. Building 479 has a ramp that allows easy access to the storage area. Figure F-1 shows loading and unloading areas for Building 479.

Movement will be minimized by having the wastes taken directly to their storage location after the inspection procedures, as described in Section C-3b, have been completed and the facility personnel have determined that the waste will be accepted. These procedures involve coordinating with the turn-in activity, checking documents (disposal turn-in document), and labeling/marketing of the containers. Through these methods, Installation Management Division personnel determine the waste category and assign a storage location. In the event of a spill, spill response materials and equipment are available as discussed in Section G.

F-4b Runoff [40 CFR 270.14(b)(8)(ii)]

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Wastes stored on shelves, some with containment trays, in Building 479 are small container wastes, labeled with the original manufacturer's label or a handwritten label similar to the actual manufacturer's label when it is not available. The wastes are segregated and isolated from other incompatible wastes. Wastes are stored on shelves, some with metal containment trays (refer to Figure D-4).

Building 479 stores all containers according to waste type. All 55-gallon drums stored meet DOT specifications for storage. The building is enclosed on all four sides to prevent precipitation from entering the building. Building 479 utilizes concrete berms to separate drum storage thus assuring diversion of liquids to separate collection trenches located in each bay. The floor has approximately 1.25 percent grade slope to facilitate liquid runoff into trenches at the north and south end of each bay. The trenches are designed to contain at least 10 percent of the volume of the contained drums. Empty drums are located in each area to facilitate spill cleanup. The floors have a 6" concrete curb around exterior sides of the building to prevent run-on into storage areas. The floors and trenches are coated with an impervious epoxy substance. The epoxy is selected with respect to compatibility with the stored waste material. The building is not located within the 100 year flood plain or within 1,000 feet of groundwater withdrawal wells.

F-4c Water Supplies [40 CFR 270.14(b)(8)(iii)]

The water supply for WPAFB is taken from actively pumping groundwater wells in Areas A, B, and C AREAS A AND B of the base. There are no surface or groundwater withdrawal wells within 1,000 feet of Buildings 478/479 (see Map 3).

The design of Buildings 479 eliminates the likelihood of surface water or groundwater contamination, since all wastes are stored indoors and handled within bermed areas.

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F-4d Equipment and Power Failure [40 CFR 270.14(b)(8)(iv)]

Building 479 will only store containerized waste; no automatic waste feed systems will exist. In the event of a brief power interruption, all waste handling (e.g., loading, unloading, sampling) activities will cease until power can be restored.

Equipment used at the hazardous waste storage facilities that could fail or would be affected by a power failure includes the existing building's ventilation and lighting systems.

The ventilation system and lighting system, if out of operation, would be repaired by base maintenance personnel immediately. Both systems operate when personnel are inside the existing building performing inspections and receiving or preparing wastes for shipment. These operations occur from 8:00 am until 4:00 pm when the base maintenance department is available to respond to equipment failure.

Should a power failure occur during non-operating periods, the power failure would be noted in adjacent buildings and by an annunciator registering the power outage at the base's central electrical generating plant. The annunciator would inform the on-duty personnel, and an established procedure of notifying by phone the real property building manager (the base environmental engineer) would be followed and the manager informed of the power outage. This notification would result in an inspection of the hazardous waste storage area the following work day to inquire whether the building's power supply has failed. This inspection would be conducted by the base environmental engineer or his trained designee as identified in the facility contingency plan. Since the ventilation system is needed to assure safe operating conditions for personnel in the building, power would be restored the next working day, and no work would proceed without an operable system. Should the base environmental engineer or his designee request that power be restored immediately by use of backup electrical power generators, these generators can be delivered and set up by the base maintenance department on an emergency basis, 24 hours a day.

F-4e Personnel Protection Equipment [40 CFR 270.14(b)(8)(v)]

A description of available protective equipment at Building 479 is presented the Contingency Plan (Section G). The use of protective equipment is covered in the Personnel Training Program (Section H). The information in these two sections indicates that any operation such as bulking and consolidation of hazardous wastes will only be accomplished by personnel wearing the appropriate protective equipment. Equipment will include, but not be limited to, protective gloves, eye and face guards, overalls, and boots. Depending on the hazard associated with the particular material being handled and its volatility, fullface-piece respirators or masks equipped with chemical filtration cartridges will be required.

Prior to handling any hazardous wastes, the Hazardous Waste Pickup Form (Figure C-1), chemical analysis, Material Safety Data Sheet (MSDS) and/or other reference will be reviewed for the particular waste stream in question, to determine which safety equipment will be used.

F-5 Prevention of Reaction of Ignitable, Reactive, and Incompatible Wastes

F-5a Precautions to Prevent Ignition or Reaction of Ignitable or Reactive Wastes [40 CFR 270.14(b)(9) and 264.17(a) and (c)]

Hazardous wastes received at Building 479 will be in non-leaking containers, safe to handle, and will comply with DOT container regulations (49 CFR Parts 173, 178, and 179). This will minimize the potential for ignition and reaction of hazardous wastes.

Wastes will be separated at Building 479 and protected from sources of ignition or reaction, such as open flames, smoking, cutting and welding, hot surfaces, frictional heat, and sparks (static, electrical, or mechanical). Wastes will be classified as ignitables, reactives, corrosives, toxics, acids, and bases. These determinations will be based upon standard hazardous material reference data and/or lab analyses. (Refer to Section C-2 for more detail.) In order to prevent a possible source of external ignition, areas with drums containing ignitable and reactive wastes will prominently display a sign clearly marked with the legend "No Smoking." Spark-proof tools (e.g., brass hammers, wrenches) will be used on all containers storing ignitable materials.

Compatible wastes will be moved from Building 479 to Building 477, consolidated (bulked) in the east bay, and then returned to Building 479 before close of business (see Figure D-

4). Ignitables, acids and alkalines will be consolidated separately. Corrosives that are Department of Transportation (DOT) oxidizers will not be consolidated. Strong oxidizing acids and hydrofluoric acid will not be consolidated. Organic peroxides will not be consolidated. The following procedures will be followed during consolidation activities:

- A. The containers will be bonded and grounded
- B. Both overhead doors will be open. All containers associated with consolidation activities will be closed during transit between buildings
- C. Non-intrinsically safe items will be placed out of service
- D. Proper personal protective equipment (ppe) will be used
- E. Compatible containers will be used
- F. A minimum of two personnel will be present
- G. A cart with spill containment features will be used to transport waste containers between buildings
- H. Incompatible wastes will not be transported together
- I. No waste containers will be staged or stored outside of Building 477 during consolidation activities
- J. A spill kit will be available at Building 477
- K. Incompatible waste streams will not be consolidated at the same time

F-5b General Precautions for Handling Ignitable or Reactive Wastes and Mixing of Incompatible Wastes [40 CFR 264.17(b) and (c) and 270.14(b)(9)]

General precautions for handling ignitable or reactive wastes were discussed in Section F-5a. Wastes are not mixed at this facility. Furthermore, incompatible wastes with the same hazardous waste characteristic will not be stored in the same storage area.

F-5c Management of Ignitable or Reactive Wastes in Containers [40 CFR 270.15(c) and 264.176]

Map 2 shows that Buildings 478/479 are located over 50 feet from the base property line.

F-5d Management of Incompatible Wastes in Containers [40 CFR 270.15(d) and 264.177(a)]

Incompatible wastes or materials will not be mixed at Building 479. Containers will be segregated by waste types (Sections C-2 and F-5a) and stored in areas containing similar waste

types. Containment in Building 479 is provided by sloped floors and collection trenches. Aisle space will be maintained to allow access for a hand truck in the event removal is required at any time due to corrosion or leakage.

Any drums that previously held any waste will be washed and triple rinsed prior to being reused. To prevent accidental reaction of incompatible corrosives stored within the same Bay 2, acids and bases will be stored apart from one another on separate shelving units or in separate drum storage areas as depicted in Figure D-4. All small containers of acids or bases stored within the same Bay 2 will be on containment trays. No small containers will be stored on the floor.

F-5e Management of Ignitable, Reactive, or Incompatible Wastes

This section is not applicable because Building 479 will not store hazardous wastes in tanks, waste piles, surface impoundments, landfills, or land treatment areas.

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APPENDIX F-1
INSPECTION LOGS

JUN 27 2011

**DIV. OF HAZARDOUS
WASTE MGT.**

00252

Date/Time /		Inspection Log for 20479			
Item	Type of Problem	Sat	Un-Sat	NA	Problem Observed & Action Taken to Correct
Face Shield & Chemical Goggles	Broken, Damaged, or Missing				
Protective Clothing	Missing, Unserviceable				
Absorbents (e.g. Clay, Pads)	Present and Accessible				
Emergency Shower/Eyewash	Leaking, Flushed				
Ventilation System	Not Operating, Blocked				
Non-Sparking Shovel	Missing, Damaged				
Non-Sparking Bung Wrench	Missing, Damaged				
Fire Extinguishers	Not Mounted, Missing, Not Charged				
Fire Alarm System	Not Operating, In Alarm				
Telephone System	Not Operating				
Warning Signs	Missing, Illegible				
Security Lights	Not Operating				
Doors, Locks, Fence and Gates	Locks Missing, Signs of Tampering				
General Debris & Refuse	General Housekeeping				
Containment Trenches, Roof Walls	Evidence of Leakage, Unobstructed				
Containers	Structural Damage, Sealed, Leaking				
Labeling of Containers	Start Date, Date In, EPA Waste Code				
Load/Unload Area	Evidence of Spills, Safe and Clean				
Aisle Space	3 ft. Clean, Unobstructed				
Container Segregation	Hazard Classes Separated				
General Lighting	Burned out, Not Operating				
Surrounding Area Cleanliness	Policing of Perimeter				
					Signature of Inspector

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DIV. OF HAZARDOUS
WASTE MGT.

00253

SECTION G

CONTINGENCY PLAN – BUILDING 479

The information contained herein is submitted in accordance with the requirements for a Contingency Plan, as contained in 40 CFR 270.14(b)(7), 264 Subpart D, and 264.50 - 264.56.

G-1 General Information [40 CFR 264.52]

This Contingency Plan is for the hazardous waste storage Building 479 on Wright-Patterson Air Force Base (WPAFB). The facilities are owned by the United States Air Force and operated by the Asset INSTALLATION Management Division.

Building 479 will store containerized waste in 55-gallon drums and smaller containers in four storage bays of an enclosed building. An estimated 17,820 gallons in 55-gallon drums and smaller containers will be the maximum storage capacity at Building 479. A description of the wastes to be stored is provided in Section C, and the containment system is described in Section D.

The Contingency Plan is subject for review and amendment by the emergency coordinator (EC) if:

- Deficiencies in the plan are noted during its implementation.
- The facility permit is revised.
- The facility changes in design, construction, operation, or other circumstances develop that change the potential for fires, explosions, or releases of hazardous materials.
- The list of emergency coordinators or alternates changes.
- The list of emergency equipment changes.

Any significant change in the Contingency Plan that impacts a base organization or agency will be reviewed and discussed with them. New Contingency Plan documents will be prepared and distributed to the designated local, State, and Federal agencies. Facility personnel will be informed

of all changes in the plan, with copies available to all personnel and organizations responsible for its implementation.

Copies of the Contingency Plan for Building 479 storage facilities will be distributed to the following organizations prior to operation of the facility. Copies of any future changes or revisions to the plan will also be distributed to these organizations.

A. Base Organizations

<u>Organization</u>	<u>Office Symbol</u>	<u>Phone</u>
Base Civil Engineering (BCE) and Deputy BCE	88th ABW/CE CEG	937/257-6214
Asset INSTALLATION Management Division	88th ABW/CEA CEG/CEI	937/257-5627
Fire Emergency Services	88th ABW/CEF 788 TH CES/CEXF	937/257-3033
Operations Division	88th ABW/CEO CES/CEOE	937/257-8214
Security Forces	88th ABW/SFS	937/257-6841
Emergency Management Division	88th ABW/CEX 788 TH CES/CEXX	937/257-6865
Consolidated Command Post	88th ABW/CP	937/257-6314
USAF Medical Center: Bioenvironmental Engineering Hospital (emergency services)	88th ABW/SGPB 88th ABW/SGOPE	937/255-6815 937/257-2274
Base Safety Officer	88th ABW/SE	937/904-3391
Explosive Ordnance Division	88th ABW/CED 788 TH CES/CEXD	937/257-7789

<u>Organization</u>	<u>Office Symbol</u>	<u>Phone</u>
Weather Squadron	88th OSS/OSW	937/257-4270
Defense Reutilization & Marketing Office DEFENSE LOGISTICS AGENCY	DRMO/VBD DLA	937/255-4614

B. Facility Personnel

Hazardous Waste Program Manager, WPAFB
TSD Manager/Environmental Protection Specialist, Asset INSTALLATION Management
Division, WPAFB
~~DRMO~~ DLA-DS Hazardous Waste Contractor, WPAFB

C. Off Base Emergency Response Organization

Ohio EPA, Southwest District Office
401 E. Fifth Street
Dayton, Ohio 45402
937/285-6357
1-800-282-9378 (Emergency Response Number)

Montgomery/Greene County Local Emergency
Response Council (MGCLERC)
One Dayton Center
One South Main St., Suite 260
Dayton, Ohio 45402
(937) 223-6323

Police Department

◦ City of Beavercreek	937/426-1225
◦ City of Fairborn	937/754-3000
◦ City of Riverside	937/225-4357

Sheriff's Office

◦ Montgomery County	937/225-4357
◦ Greene County	937/376-5111
◦ Clark County	937/328-2560

Ohio State Patrol

◦ Montgomery County (Post 57)	937/890-1111
◦ Greene County (Post 29)	937/372-7671



Please Note: Pages of this application which contain facility staff personal/home phone number information have been removed from this web-available version of the document

To review redacted copies of these removed pages, please contact DMWM's record management staff at 614-644-2621.

Thank you.

- A fire causes the release of toxic vapors.
- The fire spreads and could possibly ignite materials at other locations on base or could cause heat-induced explosions.
- The fire could possibly spread to off base areas.
- Use of water or water and chemical fire suppressant could result in contaminated runoff.
- An imminent danger exists that an explosion could occur, causing a safety hazard because of flying fragments or shock waves.
- An imminent danger exists that an explosion could ignite other hazardous waste at the facility.
- An imminent danger exists that an explosion or fire could result in the release of toxic material.
- An explosion has occurred.

B. Spills or Material Release

- The spill could result in the release of flammable liquids or vapors thus causing a fire or gas explosion hazard.
- The spill could cause the release of toxic liquid or vapors.
- The spill can be contained on base, but the potential exists for groundwater contamination.
- The spill cannot be contained on base, resulting in off base soil contamination and/or ground or surface water pollution.

C. Floods

- The potential exists for surface water contamination.

Primary and secondary hazards of the waste classes stored at WPAFB are presented in Table G-1.

**TABLE G-1. PRIMARY AND SECONDARY HAZARDS OF WASTE GROUPS
STORED AT WRIGHT-PATTERSON AFB**

Waste Group	Primary Hazard	Secondary Hazard
Volatile Organics	Flammability	Toxicity
Semi-volatile Organics	Flammability	Toxicity
Metals	Toxicity	Reactivity
Corrosives	Corrosivity	Toxicity
Reactives	Reactivity	Toxicity
Ignitables	Flammability	Toxicity
Cyanides	Toxicity	Reactivity
Sulfides	Toxicity	Reactivity
Pesticides	Toxicity	Reactivity
Toxic Organics	Toxicity	Flammability
MIXED WASTE F005 SOLVENTS AND TRITIUM	TOXICITY	RADIOACTIVITY

G-4 Emergency Response Procedures

In the event of an emergency that results in fire, explosion, or accidental materials release, response activities will be initiated accordingly, following observation of the event. In the case that the plan is to be activated, the EC will take the following steps:

- Initiate containment and control procedures;
- Account for all facility personnel/visitors by comparing a head count with a sign-in/sign-out sheet or other appropriate mechanisms;
- Implement internal and external notification and provide authorities with an assessment of the situation, requesting assistance as necessary;
- Coordinate first-aid activities if injuries are involved;
- Evacuate the facility, if required, by implementing the evacuation plan;
- Identify the character of the emergency, whether it be a fire, an explosion, a release, or a combination of these;
- Determine, if possible, the exact source of the incident;
- Determine, if possible, the amount of material if a hazardous waste is released; and
- Determine, if possible, the real extent of the released materials.

The EC may accomplish some of the above tasks by observing site conditions and may gain additional information by reviewing the facility's records, including inventories and manifests. The EC has direct knowledge of the types of wastes and their location in Building 479 as well as a thorough knowledge of facility operations.

During an emergency, the EC would consider the following items, depending on the exact emergency situation:

- ° The wind direction would be established before the emergency response personnel approach the facility. Emergency personnel would approach the facility from an up-wind direction.
- ° The Bioenvironmental Engineer from the USAF Medical Center may be requested by the EC to obtain air samples to determine if there are any airborne toxic emissions.
- ° If there is a fire, the water from the fire-fighting effort would be contained and analyzed to evaluate whether it contains hazardous waste constituents. Containment can be accomplished by having the base Operations Division construct earthen dikes across the drainage area.
- ° Efforts would be made to ensure that fires, explosions, and/or releases are controlled to minimize their recurrence, and/or to reduce their spread into other areas of the base or off base. Since this facility is a storage facility, primary concern would be to isolate the different hazard class storage areas to reduce the spread of fire, explosion, or release. Hazardous waste released during the episode would be temporarily contained by earthen dikes until the waste material could be removed and placed into suitable containers for off base disposal.

The EC will make an assessment of the possible hazards to human health and the environment that may result from a fire, explosion, or release. The assessment will address both the potential direct and indirect effects of a fire explosion, or release such as:

- ° An incident that may release toxic, irritating, and/or asphyxiating gases into the atmosphere;
- ° An incident that may release a hazardous contaminant either directly into a nearby surface water feature or drainage ditch or indirectly by contaminating the water with fire-fighting foam used to control fires or heat-induced explosions.

SOUTHWEST DISTRICT

If the event is of a minor or controllable nature and presents no potential hazard to human health, to site operations, or to the environment, the EC will not implement the Contingency Plan but will ensure that control measures and post-emergency (cleanup) procedures are implemented and that the necessary reporting is completed. An example of not implementing the Contingency Plan would be the identification of a leaking drum within Building 479 where fluids have collected in a storage area. The drum would be appropriately repaired, overpacked, or the material would be transferred to a new drum and all spilled material would be cleaned up.

G-4a Notification [40 CFR 264.56(a)]

The Contingency Plan identified here is supplemented by Wright-Patterson's spill plan AND RADIATION PROTECTION MANUAL, which identifies several organizations on the base that can respond to and/or provide assistance in an emergency. These organizations are:

Mission Support Group Commander (88th MSG/CC)

- The Mission Support Group Commander or his deputy will act as On-Scene Coordinator for WPAFB when personnel are involved in responding to spills and fires. They would work with the EC to assure that other base organizations are informed when their assistance is required.

Installation Management Division (88th CEG/CEI)

- This office will assist in the environmental assessment of any release and provide personnel to serve in the role of primary and alternate emergency coordinator.

Fire Emergency Services (788th CES/CEXF)

- This organization provides emergency response services such as fire control and prevention. The Fire Chief or senior fire official at the site will act as the On-Scene Coordinator's representative when a fire or explosion has occurred or is likely to occur at the facility. They will assist the EC in assessing a fire's hazards.

Operations Division (88th CES/CEOE)

- This organization provides support for spill control, if needed, including heavy equipment operation, barrier erection, spill cleanup, and proper disposal. This department mans a 24-hour-a-day, 7-day-a-week service desk and distributes calls throughout the base in case of emergencies.

Security Forces (88th ABW/SFS)

- This organization provides security, crowd control, traffic control, and related activities in the event of an emergency that would require these services. The Security Forces would provide off base notification in the event of an emergency affecting nearby communities.

Emergency Management Division (88th ABW/CEX 788TH CES/CEXX)

- This organization responds to all emergencies on base and is a fundamental link between all the different branches that respond to emergencies. This branch also provides a communication link to the base commander to keep him apprised of emergencies requiring his attention.

USAF Medical Center (88th MDG/SGP)

- This organization provides both medical and environmental support to the facility operations. The base hospital emergency section has complete emergency medical capabilities, including ambulance and paramedic services for the facility. The environmental health and safety branch (Bioenvironmental Engineering) provides support in assessing the potential health effects of a hazardous material/waste release on both humans and the environment by monitoring and offering the capability of sampling water, air, and soil, if needed.

Consolidated Command Post (88th ABW/CP)

- This organization provides any necessary communication link between the base commander and all other base organizations.

Other Base Support Organizations

Other base organizations that can provide support services are:

- Explosive Ordnance Division (88th ABW/CED 788TH CES/CEXD)
- ~~Defense Reutilization and Marketing Office (DRMO)~~ DEFENSE LOGISTICS AGENCY (DLA)
- Weather Squadron (88th OSS/OSW)
- Base Security Office (88th ABW/SE)

Emergencies are immediately responded to at Building 479 by personnel at the facility. Should a phone be unreachable or unusable, nearby buildings (numbers 470 or 157) can provide a phone. Assistance is also available from the network of well qualified and knowledgeable base

organizations that are equipped to fulfill their specified roles. Because certain base organizations are called to assist certain emergencies, they are notified only when necessary. Specific organizations referred to as the core response team (CRT) respond whenever the Contingency Plan is implemented. The core response team includes: Operations Division, Base Civil Engineering Office, Fire Emergency Services, Asset INSTALLATION Management Division, and Bioenvironmental Engineering.

The internal notification procedures for enacting the Contingency Plan to respond to material releases and other emergencies are as follows:

- The person observing the problem notifies the Fire Department at 911. This initial notification is completed after all facility personnel on the premises have been notified in accordance with the facility evacuation plan.
- The person notifying the Fire Department will provide the following information:
 - Name and telephone number of caller
 - Time and location of emergency
 - Type of emergency (i.e., fire, spill)
 - Time of report
 - Access route (consider the wind direction)
- The Fire Department responds initially and calls in other organizations as necessary.
 - Operations Division (88th ABW/CEO CES/CEOE)
 - Base Civil Engineering Office (88th ABW/CE CEG)
 - Fire Emergency Services (88th ABW/CEF 788TH CES/CEXF)
 - Asset INSTALLATION Management Division (88th ABW/CEA CEG/CEI)
 - Bioenvironmental Engineering (88th MDG/SGPB)
- The EC, together with the assistance of available members of the above CRT, mobilizes spill response team personnel and any necessary equipment. Should the emergency be a fire, the base fire chief will be the On-Scene Coordinator before the EC arrives. Based on the assessment by the EC and other core response organizations, additional response organizations may be called.

- If an emergency is of sufficient magnitude to require additional assistance, the base Emergency Management Division (~~88th ABW/CEX~~ 788TH CES/CEXX) is contacted by the service call desk or the EC and they are requested to respond.
- If the emergency is a chemical spill, the EC, an Asset INSTALLATION Management Division (~~88th ABW/CEA-CEG/CEI~~) representative, and the base Bioenvironmental Engineer (88th MDG/SGPB) will assess the environmental impact of a release. This assessment may include collecting samples and submitting them to a laboratory for analysis to determine if there are any hazardous constituents present.
- The base hospital (88th ABW/SGOPE) will be contacted to request an ambulance to transport injured personnel for treatment, if needed.
- In the event that the emergency is a fire identified by base facility personnel, the fire alarm can be pulled and the nearest available fire station would immediately dispatch the needed equipment and personnel to the facility.

G-4b Identification of Hazardous Materials [40 CFR 264.56(b)]

Personnel discovering a spill or leak will immediately identify the character, exact source, amount and area/extent of a release. This will be accomplished by visual observation and/or review of records.

Since containers will be stored in areas according to their hazardous characteristics, the contents of a drum can generally be determined through a check of the operating record. However, sampling and analysis may be conducted as necessary.

G-4c Hazard Assessment [40 CFR 264.56(c) and (d)]

The EC will assess the possible direct and indirect hazards to human health or to the environment that may result from a chemical release, fire, or explosion.

The following information will be obtained in order to assess the magnitude and potential seriousness of the spill or release:

- Time and type of incident,
- Name and quantity of material involved, to the extent known and the rate of release, (based on database inventory)

- Direction of the spill, vapor, or smoke release and fire and/or explosion possibility (e.g., the effects of any toxic, irritating, or asphyxiating gases that may be generated, or the effects of any hazardous surface water run-off from water or chemical agents used to control fires).
- Area and material involved and the intensity of the fire or explosion.
- Toxicological hazards, and
- The extent of injuries, if any.

G-4d Control Procedures [40 CFR 264.52(a)]

The initial response to any emergency will be to protect human health and safety and then the environment. Identification, containment, treatment, and disposal assessment will be the secondary response.

The individual initially discovering any spill will immediately initiate the following spill response actions:

- Activate available alarms to alert facility personnel.
- Notify the base Fire Department at 911

The individual discovering the spill will:

- Secure the spill site to prevent unauthorized entry.
- Respond, within their capability, with sufficient personnel and equipment to effect containment, cleanup and restoration of the landscape due to spills of hazardous substances.
- Request assistance from the base (call Police/Fire/Medical - 911) if spill exceeds personnel and/or equipment capability.
- Evacuate the area if appropriate.
- Support cleanup efforts as directed by the EC.

Fire and/or Explosion

Small isolated fires which are obviously controllable with a portable fire extinguisher would be handled by the employee discovering the fire. Once the fire has been extinguished, a fire check by the base fire department would be conducted to assure it was extinguished properly, and to assess the potential for recurrence. Control of other fires or explosions would be the responsibility of the base fire department with input provided by the EC.

Buildings 478/479 can easily be accessed by firefighting and other emergency vehicles and equipment via Thirteenth Street. The Wright-Patterson AFB Fire Department is available 24-hours-a-day to respond to any emergency. Until the Fire Department personnel arrive, the fire containment effort will be carried out by building personnel. The Fire Chief will determine when the fire has been controlled and consult with the CRT and EC to determine when activities in the area can resume.

Additionally, Buildings 478/479 have an automatic fire suppression system. The fire suppression system for Buildings 478 and 479 was designed per the requirements of NFPA 30, "Flammable and Combustible Liquids Code." The fire suppression media will be a foam solution consisting of 3% alcohol foam concentrate and 97% water. The system has a supply density of 0.3 gpm per square foot with enough capacity to provide a 15 minute foam supply over a 2,000 square foot area.

The foam system is located in Building 478 in an equipment room with 2-hour fire rated walls, with access to the room from the outside of the building only. The fire suppression system is an air pressurized, dry pipe system. When a sprinkler head opens, air pressure is released, causing the dry pipe valve to open and fill the sprinkler piping system. The foam solution is then dispersed through the open sprinkler head(s) to Buildings 478 and 479. Standard sprinkler heads are used and are located just below each building's roof structure with a maximum spacing of 100 square foot per head. The sprinkler heads will activate at 165° F. Water flow will activate an audible alarm bell and send a signal to the building's fire alarm panel.

A fire department connection to the foam system and a fire hydrant is installed at the intersection of 13th Street and the Access Road to the building. Appendix B-1 provides specifications on the fire suppression system.

A fire alarm near the door of Building 478, when pulled, automatically informs the base Fire Department of an emergency and dispatches the nearest available response team with fire-fighting equipment to the facility. There are three fire stations on the base, with the nearest station, No. 3,

approximately 1/4 mile from the facility. This proximity means that emergency response to the facility can be very rapid. Initial response from fire station No. 3 would include two pumpers equipped with 1,000 feet of hose and 1,000-gallon-per-minute pumping capacity. These are known as P-22 vehicles. Each contains a 600-gallon tank of water. One pumper carries 55 gallons of Aqueous Film Forming Foam (AFFF) and the other carries 50 gallons of Biosolve. Initial response would also be provided by one rescue vehicle, and one hazmat vehicle with equipment trailer and decontamination capabilities. If additional response is needed, the following equipment would respond from other base fire stations: one 95-foot aerial truck, two command vehicles, two pumpers, and one crash truck with 500 lbs of dry chemical and 3,300 gallons of water. The crash truck also carries 500 gallons of AFFF.

General containment and control procedures that will be followed during a fire or explosion emergency include:

- Evacuate immediate area and any potentially effected surrounding areas;
- Isolate affected area with temporary barricades and with signs to prevent entry of unauthorized personnel;
- Don appropriate personal protective equipment based on type of incident;
- Isolate the affected area from other wastes to reduce the spread or recurrence of fire, explosion, or release;
- Stop the release of any hazardous materials;
- Temporarily contain hazardous waste released with absorbents, earthen dike, or other equivalent containment materials and equipment (using compatible materials to the greatest extent possible), until removal and cleanup can be conducted;
- Contain water or fire-fighting agent to analyze for hazardous waste constituents;
- Obtain appropriate containers in good condition for storing or overpacking released or contaminated materials.

Release of Hazardous Waste to Air, Land, or Water

Small spills or unplanned releases, which are obviously controllable, will be handled by the personnel discovering the incident. The base Asset INSTALLATION Management Division will be notified and the cleanup inspected.

The person reporting the spill should identify the location, material spilled, and amount. The notifier should then return to the scene and within their capability:

- Halt the discharge of the spilled substance, and
- Contain the spilled substance by placing dikes or temporary barrier around the spill.

All other spills or unplanned releases will be handled by the Asset INSTALLATION Management Division and Operations Division as directed by the EC.

General containment and control procedures that will be followed during a spill or unplanned release emergency include:

- Evacuate immediate area and any potentially affected surrounding areas;
- Isolate affected area with temporary barricades and signs to prevent entry of unauthorized personnel;
- Make sure that area is properly vented, if possible;
- Don appropriate personal protective equipment based on type of incident;
- Isolate the affected area from other wastes to reduce the risk of fire, explosion, or other reaction;
- Stop release of hazardous material either through righting spilled containers, placing damaged containers in overpack drums, or contents of damaged drums in new containers (ensuring compatible materials are used);
- Temporarily contain released hazardous waste materials with hazard pillows, earthen dikes, or other equivalent containment equipment, until removal and cleanup can be conducted;
- Obtain appropriate containers in good condition for released materials.

Special attention will be paid to the prevention of mixing incompatible wastes during an emergency. Isolation of wastes from other incompatible wastes will be accomplished either through physical separation of the wastes or use of temporary containment measures (hazard pillows) between incompatible wastes. Temporary signs will be erected cautioning against improper

handling. These measures will stay in place until cleanup is completed, and the facility is returned to normal operating status.

If the chemical spill is not contained within a bermed or spill containment area, then an area of isolation will be established around the spill. The size of this area will generally depend upon the size of the spill and the chemicals involved. If the spill results in the formation of a toxic vapor cloud (by reaction with surrounding materials or by outbreak of fire) and its release (due to high vapor pressures under ambient conditions), then further evacuation efforts will be enforced. An area at least 500 feet wide and 1,000 feet long will be evacuated downwind if volatile materials are spilled.

When any spill occurs, only those persons involved in overseeing or performing emergency operations will be allowed within the designated hazard area. If possible, the area will be roped or otherwise blocked off.

The EC or a designated Asset INSTALLATION Management Spill Team representative is required to notify the following agencies if a reportable quantity of hazardous waste has been spilled or released outside a contained area, or if a fire or explosion has occurred that could threaten human health or the environment, or whenever the Contingency Plan is implemented:

- National Response Center 800/424-8802
- Ohio EPA Emergency Response 800/282-9378
- Ohio EPA Southwest District Office 937/285-6357
- Montgomery/Greene County Local Emergency Response Council 937/223-6323 (day)
1-800-762-2343 (after hours
c/o Montgomery County Sherriff)

The following additional agencies must be notified of any release to a waterway:

- U.S. EPA Region V 312/353-2197
- U.S. Coast Guard 216/522-3983

For releases affected the Rohrer's Island-Dayton Ground Water Recharge Facility notify:

- Superintendent of the Division of Supply and Treatment 937/237-0020

- Mad River Well Field 937/253-5568
or
937/443-4905 (24 hour number)
- Water Director 937/443-3725
- Emergency Service 937/443-4905
(after duty hours)

Additional emergency response organizations would be contacted by WPAFB Security Forces if a release, spill, fire, or explosion has occurred that would affect off base personnel:

Police Department

- City of Beavercreek 937/426-1225
- City of Fairborn 937/754-3000
- City of Riverside 937/225-4357

Sheriff's Office

- Montgomery County 937/225-4357
- Greene County 937/376-5111
- Clark County 937/328-2560

Ohio State Patrol

- Montgomery County (Post 57) 937/890-1111
- Greene County (Post 29) 937/372-7671

Spill Response Assistance

- Montgomery/Greene County Local Emergency Response Council 937/223-6323

City of Dayton

- Wastewater Treatment Plant 937/268-9511

If the EC or a designated Asset INSTALLATION Management Spill Team representative believes that evacuation of surrounding base facilities is required, he or his designee will immediately notify the appropriate building or property manager. His designee may be a representative of the base Security Forces (88th ABW/SF) or of the base Emergency Management Division (~~88th ABW/CEX~~ 788TH CES/CEXX). Should a situation arise in which off base facilities

need to be notified for evacuation purposes, the base Security Forces would notify off base agencies simultaneously by using their inter-city radio network.

If the EC believes that off base or outside emergency response capabilities are needed to respond adequately to an emergency (such as spills) at the facility, he or a designated Asset INSTALLATION Management Spill Team representative will contact the Montgomery/Greene County Local Emergency Response Council for assistance (One Dayton Center, One South Main Street, Suite 260, Dayton, Ohio 45402; 937/223-6323).

When the EC makes a determination that the Contingency Plan is to be implemented and initiates response actions including notifying the specified external (off base) organizations, he reports the following information:

- Name and telephone number of the responder,
- Name and address of the storage facility,
- Time and type of incident (for example, fire, release)
- Common chemical name and quantities of each material, if known,
- Extent of injuries, if any, and
- Possible hazards to human health or the environment for both inside and outside the facility.

Most waste spills and leaks are easily contained within the depressed floor area and spill containment basin in Building 479, and can be collected with absorbent materials or pumped into a container. Spills in the containment trays in Building 479 can be collected with absorbent materials or pumped into a container. The contaminated area can then be flushed with water, or some other appropriate solvent. The rinseate and any contaminated absorbent will also be containerized for disposal.

G-4e Prevention of Recurrence or Spread of Fires, Explosions, or Releases [40 CFR 264.56(e)]

Procedures to be followed to prevent the spread of fires, explosions, or releases were discussed in Section G-4d, Control Procedures [40 CFR 264.52(a)].

Within 30 days after the conclusion of a spill removal action, the ~~Asset~~ INSTALLATION Management Division will prepare a written completion report, which will assess the cause of the fire, explosion, or spill. This report will also indicate remedial actions that will be taken to prevent any recurrence of the hazardous situation.

G-4f Storage and Treatment of Released Material [40 CFR 264.56(f) and (g)]

Personnel responsible for the removal of the hazardous wastes (either base emergency response personnel or a contractor) shall wear the necessary protective equipment before proceeding to remove the released waste material. Work zones will be identified to prevent the spread of hazardous wastes and to maintain personnel safety.

The contaminated zone will encompass whatever surface area is contaminated by the hazardous waste release. Protective equipment and clothing will be worn by personnel when in this area.

Cleanup of released material will take place immediately after the release has been stopped or in the case of the fire, when the fire has been properly extinguished and the threat of recurrence is over. Cleanup procedures within 479 will include:

Small Liquid Spills

- Place absorbent on spill and sweep up and remove with brooms placing into 55-gallon drums
- Wash and brush affected area with water and appropriate detergent (based on contaminant)
- Rinse with water
- Drum all rinseate
- Decontaminate all equipment used in cleanup

Large Liquid Spills

- Pump released material with a diaphragm pump into 55-gallon drums

- At completion of pumping, place absorbent on any remaining spill residue and sweep up and remove with brooms and shovels and place in 55-gallon drum
- Wash and brush effected area with water and appropriate detergent (based on contaminant)
- Rinse with water
- Drum all rinseate
- Decontaminate all equipment used in cleanup

Solid Spills

- Sweep up and remove with brooms and shovels and place in clean, good-condition 55-gallon drums
- Wash and brush effected area with water and appropriate detergent (based on contaminant)
- Rinse with water
- Drum all rinseate
- Decontaminate all equipment used in cleanup

Cleanup activities will proceed as follows:

- Readily identifiable wastes will be cleaned up first. It may be necessary to take samples of released wastes to ensure that the cleanup effort does not mix incompatible wastes. A laboratory spill kit is available at the facility to identify characteristics of spilled material. Wastes will be placed in available empty 55-gallon drums at Building 479. Each of the drummed wastes will be analyzed for hazardous waste characteristics or specific waste components if the source is known. (Note: ensure drums are compatible with materials/wastes to be stored.)
- The drum(s) of contaminated material, along with equipment and protective clothing used during cleanup, will be isolated at a location within the facility or it will be immediately removed by the disposal contractor.
- Samples may be taken from surface waters, drainage ditch, and any soil that may have been exposed to the release. Samples will be analyzed for the characteristics that identify hazardous wastes (i.e., ignitability, corrosivity, reactivity, and TCLP). A sufficient number of representative samples will be taken to determine the extent of contamination. Samples will be taken repeatedly after each cleanup action until

the samples indicate that all the contaminate is removed and the samples show background levels.

- ° Based upon the sampling results, contaminated materials would be removed and placed in drums. If the amount of soil removal becomes extensive, it may be removed by truck and taken directly to a licensed disposal facility.
- ° After cleanup operation, the facility's emergency equipment will be reactivated and resupplied. The fire alarm will be reactivated, fire extinguishers recharged, and the quantity of spill supplies and equipment will be renewed.

To prevent contamination of the entire facility, decontamination procedures will be employed. Decontamination will be completed for personnel and any contaminated equipment. Neither personnel nor equipment may exit from a contaminated area without going through decontamination.

Decontamination will proceed as follows:

- ° Personnel leaving a contaminated area must remove their protective clothing and safety equipment. A contaminated clothing drum will be established near the work area.
- ° Contaminated equipment, including tools and any other items used by personnel will be decontaminated or disposed of as a hazardous waste. Decontamination can be accomplished by washing the equipment used with a strong detergent wash or other recommended decontamination agent. Larger equipment, such as forklifts, will be cleaned either with a detergent wash or a portable jet steam cleaner. The effectiveness of the decontamination process will be evaluated by taking wipe samples from the equipment and analyzing them for hazardous constituents in which they may have come in contact. If the samples display hazardous constituents, the equipment will either be redecontaminated or disposed as a hazardous waste. Regardless, no equipment, unless completely decontaminated, will be returned to the facility inventory for use.
- ° The liquid fraction of the water or steam wash may be flushed to the base sanitary sewer, if discharge standards are met, and the solid residue from these operations will be analyzed and disposed in accordance with RCRA regulations. The solvent wash, if used, will be disposed of as a hazardous waste.
- ° If the decontamination process for a piece of equipment proves to be uneconomical, then the contaminated equipment will be disposed of as a hazardous waste.

- Any containers damaged during the emergency will either be decontaminated and disposed at an appropriate sanitary landfill or will be disposed as a hazardous waste. If the containers are salvageable, they will be repaired, decontaminated, and brought back into service.

G-4g Incompatible Waste [40 CFR 264.56(h)(1)]

The EC will ensure that no wastes in the affected area(s) that may be incompatible with the released material are treated, stored, or disposed of until cleanup procedures are completed. Containers stored at Building 479 are segregated by waste type and stored in areas containing similar waste types. Containment of spills in each area either by trenches or containment pans will ensure that incompatible wastes are not mixed.

G-4h Post-Emergency Equipment Maintenance [40 CFR 264.56(h)(2) and (i)]

After an emergency event, all emergency equipment listed in Section G-5 will be reactivated, resupplied, replaced, and/or decontaminated so that it will be fit for its intended use. The fire alarm will be reactivated, fire extinguishers recharged, and the quantity of spill supplies and equipment will be renewed. An inspection of all safety equipment will be conducted as discussed in Section F-2 before operations are resumed (40 CFR 264.56(i)). The Regional U.S. EPA Administrator and State and local authorities will be notified that post-emergency maintenance has been performed and operations will resume.

G-4i Container Spills and Leakage [40 CFR 264.56(g) and 264.171]

Refer to Section G-4d for a discussion of emergency response procedures for container spills and leaks.

G-4j Tank Spills and Leakage [40 CFR 264.194(c) and 264.56(g)]

No tanks will be utilized at this facility.

G-4k Waste Piles Spills and Leakage [40 CFR 270.14(b)(17), 264.252 and 264.253]

No waste piles will be maintained at this facility.

G-4l Surface Impoundments, Spills, Leakage, and Sudden Drops [40 CFR 270.14(b)(7), 264.222 and 264.227]

No surface impoundments will be maintained at this facility.

G-4m Landfill Leakage

This facility will not maintain a landfill for hazardous waste.

G-5 Emergency Equipment [40 CFR Section 264.52(e)]

In Building 479, three ABC fire extinguishers AND ONE CLASS D FIRE EXTINGUISHER are available (Table G-2 presents the current emergency equipment list). Two fire hydrants are within 800 feet of Building 479. The water lines and/or hydrants can be tapped by the base's Fire Department to provide adequate volume and pressure to supply a water hose stream if necessary.

One emergency eyewash/shower is located at Building 479.

Equipment for containing and cleaning up spilled hazardous waste will be maintained at Building 479 at all times. In addition, each generating point and accumulation point will obtain and maintain appropriate fire control and spill control equipment. The equipment is sufficient for minor spills or fires. For a major spill or fire, the base spill plan would be activated.

Protective clothing and equipment are provided to protect employees during normal and emergency operations. Facility personnel are required to wear protective clothing, chemical gloves, and a full face-piece shield when receiving, moving, or shipping hazardous waste items.

First aid supplies are available in Building 479. Below is a partial listing of equipment that would be available through base organization support.

Civil Engineering Fire Emergency Services (88th ABW/CEF 788TH CES/CEXF)

The following equipment is available for handling both fire and hazardous material spills incidents:

- Fire trucks with the necessary pumps, hoses, and ladders to apply water, Biosolve, Dry Chemical, and foam sprays;
- Fire extinguishers;
- Personal safety equipment, including fire-resistant clothing, self-contained breathing apparatus, boots, and gloves,

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- Limited leak repair capability for drums and tanks,
- Absorbent material and non-sparking tools for cleanup of flammable materials, and
- Communication equipment, both telephone and radio.

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TABLE G-2. FACILITY EMERGENCY EQUIPMENT LIST

Below is a current inventory of emergency equipment that is available at the hazardous waste storage facility 479. Equipment and supplies are reordered as necessary to maintain this minimum inventory.

	Item	Quantity	Purpose
1. Spill Control	Hazard pillows	10 pillows	For absorbing chemical leaks or spills
	Speedie Dry	5 50# bags	Absorbs oil, fuel, and some chemicals
	Laboratory Spill Kit	1	Testing caustic, acid & solvent spills
	Empty drums	5-55 gallon (minimum)	For the storage of material from leaking drums and spill situations
	Hand tools: shovel, bung wrench, etc.	1 each	For both routine operations and spill situations
2. Safety and Emergency Equipment	Eye wash and shower	1	To flush the eye or whole body with water in aces of inadvertent contact with chemicals
	Telephone	1	Located outside the facility near the front door, it provides communication with other base facilities
	Fire extinguishers	3 4	Both ABC grade fire extinguishers are near the two exterior doors for the purpose of all small fires except water-reactive materials. A CLASS D FIRE EXTINGUISHER IS FOR COMBUSTIBLE METALS.
	Fire alarm	1	Activation of alarm notifies Fire Station No. 4 in Area B of the base
	Personnel Protective Equipment	(Required Minimum Quantities)	Necessary to protect the human body exposure to hazardous chemicals
	Respirator	2	
	Surgical gloves	20 pairs	
	Face shield	1	
	Hand gloves	3 pair	
	Goggles	2	
	Plastic Apron	2	

Civil Engineering Operations Division (88th ABW/CEO CES/CEOE)

The following equipment is controlled and supplied by this branch for the purposes of containment and removal of hazardous material.

- Heavy equipment such as backhoes, dump trucks, forklifts, bulldozers, and cranes for both the containment and removal of hazardous materials,
- Absorbent materials, sand, shovels, brooms, and containers for containment and removal of hazardous materials on land,
- Absorbent booms for the containment of floating hazardous materials (e.g., fuel oil) on surface waters,
- Communication equipment, both telephone and radio, and
- Personal safety equipment, including boots, gloves, disposable paper suits, and rain suits.

G-6 Support Agreements [40 CFR 264.52(c), 264.53(b), and 264.37(b)]

The Asset INSTALLATION Management Division (88th ABW/CEA CEG/CEI) has made contact with the base agencies and Ohio EPA that may be called in an emergency situation. Each of these agencies will always have a current copy of this Contingency Plan and relevant background information. Letters of notification of any changes to the Contingency Plan will be on file at WPAFB. The notification procedures and arrangement with off base emergency response organizations are described in Section G-1. Copies of the approved Contingency Plan will be provided to and reviewed with the organizations and facility personnel listed in Section G-1. No copies will be provided to off base hospitals or fire departments since the base furnishes these services for emergency assistance.

G-7 Evacuation Plan

If an evacuation from Building 479 is necessary, the following actions will be taken:

- Notify facility personnel of the emergency.

Since the facilities are small, it is possible to notify all the personnel by voice communication. If workers are isolated, they will have a two-way radio for communication with the other worker(s) on the premises. All personnel should

move to a location outside and upwind of the facilities. An accounting of all facility personnel should be made at this time.

- Notify the base Fire Department at 911.

The emergency coordinator (or trained alternate) would notify the BCE service call desk, (937/257-6764) which is operational 24-hours-a-day, 7-days-a-week, using either the facility's phone or a phone in a nearby building. If the emergency situation does not permit notifying the service call desk, the fire alarm box near the entrance of Building 478 should be pulled. When pulled, the nearest available base fire station will be dispatched to the storage facility. Immediate information required by the service call desk is as follows:

Name and telephone number of caller
Time and location of emergency
Type of emergency; fire, spill, injury
Time of the report
Access route (i.e., consider wind direction for toxic emissions or fire)

The BCE service call desk will notify the core emergency response team for spills and fires. They will notify other base organizations for support as needed. The emergency coordinator will act as the primary contact for informing nearby facilities that may be affected by a release from the storage facility. If base Emergency Management Division (88th ABW/CEX 788TH CES/CEXX) becomes involved in the incident, they would have the responsibility of notifying the potentially affected facilities. The BCE service call desk will act as the secondary contact for informing these nearby facilities. The contact for each of the surrounding facilities will be their property building managers, a current list of whom is kept at both the service call desk and in the Asset INSTALLATION Management Division (88th ABW/CEA CEG/CEI).

- Stop facility operations.

Facility personnel will make an attempt to shut off any electrical equipment and the ventilation system.

- Refer to Figure G-1 for designated evacuation routes. During an emergency event, the primary evacuation route from Building 479 storage facility will be to exit through the north gates.

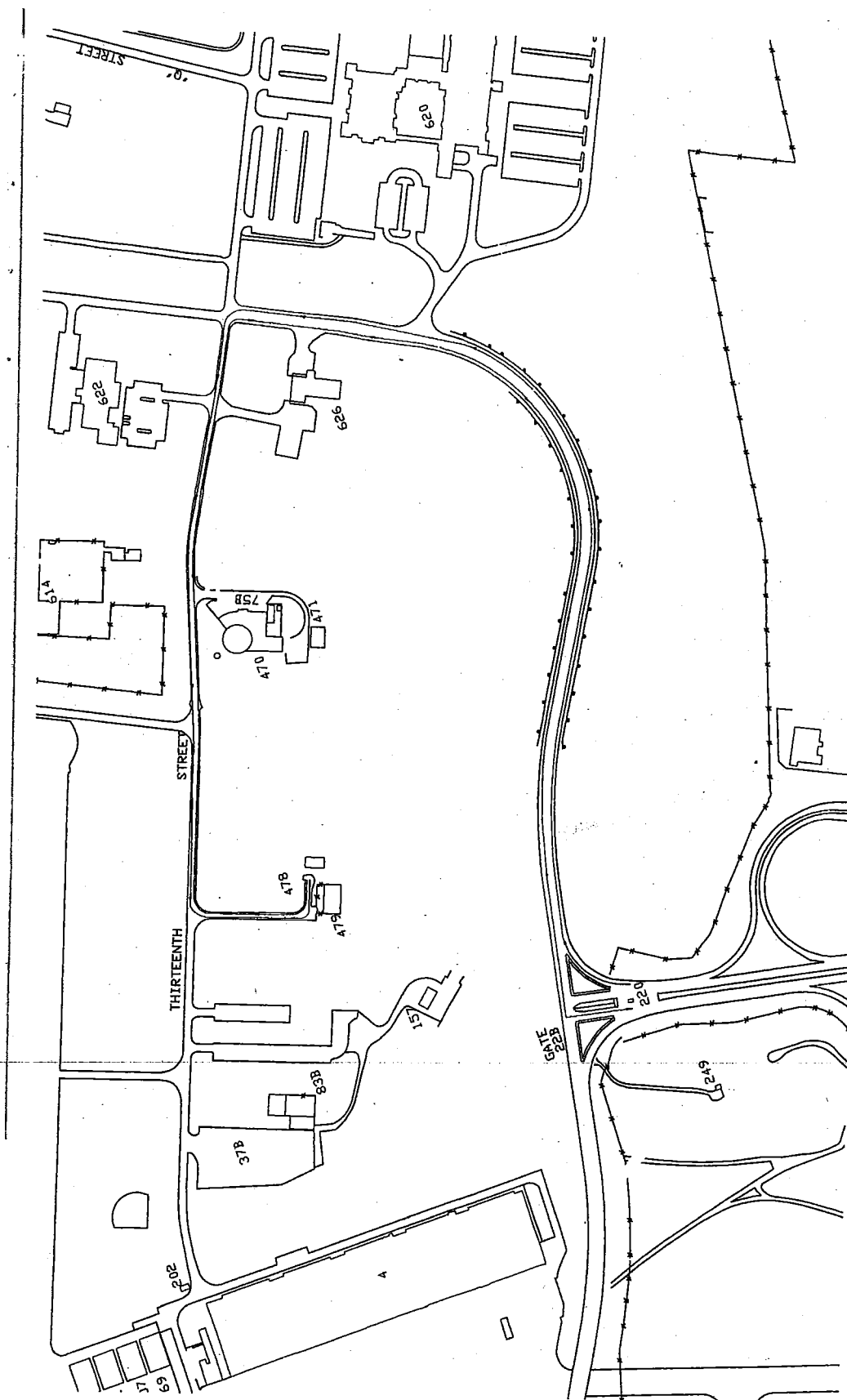


Figure G-1. Evacuation Routes from Buildings 478 and 479

The facility access road off of Thirteenth Street is the primary evacuation route. The terrain around the facility is primarily open grassy field so it would be possible to leave the facility (secondary route) from several directions.

- Evacuate affected base and off base areas.

The EC or a designated Asset INSTALLATION Management Spill Team representative would contact the base Security Forces and request that the off base organizations be contacted as necessary. The off base police departments, county sheriff, and the Ohio State Patrol would establish necessary roadblocks and initiate any necessary evacuation of potentially affected communities. In addition the MGCLERC would be contacted.

The EC will ensure that the following conditions are satisfied prior to resumption of operations in the affected area(s) of Building 479. In addition, the EC will notify both the director of the Ohio EPA and any affected base facility that Building 479 will resume operations and that corrective actions have been completed. The corrective cleanup measures of identification, removal, storage, and arrangements for disposal of released materials must be complete in the affected areas prior to initiation of operations (such as receiving waste) that may be incompatible with the released material. Wastes moved during the cleanup effort will be relocated into their proper hazard class areas. The facility's utilities, emergency equipment, and spill supplies will be restored to the proper levels required for operation of the facility. The facility operating record will be revised to reflect the current volumes of wastes stored at the facility.

The EC will determine the need for evacuation of additional personnel in the vicinity of Building 479.

All personnel are trained in evacuation procedures and means of exit from their respective work areas.

G-8 Required Reports [40 CFR 264.56(j)]

Any emergency event (e.g., fire, explosion) that requires implementation of the Contingency Plan will be reported. The following incidents require that an Environmental Incident Report (Figure G-2) be filed:

- All fires,

REPORT #

ENVIRONMENTAL INCIDENT REPORT

Subject (spill, noncompliance, administrative):

1. Name of Installation: Wright-Patterson AFB Reported By:

2. Incident Report: Initial ☐ Final ☐

3. Date/Time of Incident:

4. Severity of Incident: Major (over the RQ) ☐ Minor ☐

5. Location of Incident and Organization:

6. Type and Estimated Amount of Pollutant:

7. Cause of Incident/Observations:

8. Damage Impact on the Surroundings Including Fish and Wildlife:

9. Corrective Action Taken to Eliminate Pollutant and Source of Pollutant:

10. Corrective Action to Prevent Re-occurrence:

11. Assistance Required (Organizations Involved):

12. Estimated Completion Date of Remedial Actions:

13. Estimated Cost of Remedial Actions (include labor, disposal and material costs etc.): \$.00

14. Anticipated or Actual Reaction by the News Media and Public:

15. Number of Injuries:

16. Agencies Notified:

<input type="checkbox"/>	Agency	Time	Confirmation #
<input type="checkbox"/>	Dayton Rohrer's Island		
<input type="checkbox"/>	Ohio EPA		
<input type="checkbox"/>	National Response Center		
<input type="checkbox"/>	Other		
<input type="checkbox"/>	AFOSI (Coordinate with organization commander prior to notification)		
<input type="checkbox"/>	Not Reportable		

17. Spill Plan/Response Problems:

Distribution: 88 ABW: CC, CEA-1 CEI, CEA-PA PA, CE, CEF CEXF, CEX CEXX, JAE, SE,
HQ AFMC: CEAN, JAM AFCEC

CONTACTS:

Organization Commander/Director: _____

Figure G-2. Environmental Incident Report

- Chemical spills of more than 5 gallons (or smaller volumes if highly toxic materials are involved),
- All injuries except minor cuts and bruises,
- All burns and chemical irritations,
- All equipment damage due to malfunction or operating error, and
- All "near misses" of the above that could have had serious consequences.

Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) requires that notification be made to the National Response Center (800/424-8802) whenever there is a release of hazardous substance into the environment in amounts equal to or greater than the reportable quantity. Notification of the Local Emergency Planning Committee is also required.

Any emergency event requiring implementation of the Contingency Plan will be reported in writing within 15 days to the Director of the Ohio EPA and Regional Administrator of U.S. EPA, Region V:

Reports will include the following:

- Name, address, and telephone number of the storage facility owner or operator,
- Name, address, and telephone number of the facility,
- Date, time, and type of incident (for example, fire, chemical release),
- Name and quantity of material(s) involved,
- The extent of injuries, if any,
- An assessment of actual or potential hazards to human health or the environment, where applicable,
- Estimated quantity and disposition of recovered material that resulted from incident, and
- Additional information that the Director of Ohio EPA or U.S. EPA Region V Administrator may require.

SECTION H

PERSONNEL TRAINING

The information contained in this section outlines training programs for personnel who are involved with operation of WPAFB's hazardous waste permit at Building 479, in accordance with 40 CFR Sections 264.16 and 270.14(b)(12) and OAC 3745-54-16. Personnel training related to generator activities is not included in this permit application, however it is addressed in WPAFB's Hazardous Waste Management Plan.

H.1 Outline of Training Program [40 CFR 270.14(b)(12)]

Facility personnel who handle hazardous wastes must successfully complete a program of classroom instruction and/or on-the-job training in order to prepare them to operate and maintain the facility in a safe manner and ensure the facility's compliance with 40 CFR 264. Initial and annual refresher training will be provided by a variety of means, including outside specialized vendors, on-site training classes and an on-site computer based training class. An outline of the training program given both initially and annually to personnel who manage or handle hazardous waste at Building 479 is presented in Table H-1.

H.1a Job Titles and Duties [40 CFR 264.16(d)(1) and (2)]

The duties, responsibilities, and qualifications of the positions directly responsible for handling hazardous wastes are as follows:

Position Title: Field Compliance Manager/TSD Facility Manager (~~Teresa Finke~~ VACANT)

Responsibilities: Oversees the operation of the storage facility, including oversight of contractor waste management practices within the facility. Interprets regulations and develops necessary operating procedures as required. Determines need for modifications to existing facilities and

initiates action to improve economy, efficiency, safety, and physical security of operation. Develops appropriate requirements and initiates requests for work.

Executes required actions if a spill occurs and ensures personnel are trained to act during his absence. Contains and cleans up spills for which the Asset INSTALLATION Management Division has the capability. Decontaminates and replenishes spill equipment and supplies. Ensures spill incident reports are prepared in accordance with applicable regulations.

Position Title: Hazardous Waste Program Manager/Assistant TSD Facility Manager

Responsibilities: Responsible for hazardous waste training program for personnel who are involved with operation of WPAFB's hazardous waste permit. Verifies the contractor-prepared manifest and shipping papers and DOT markings packaging and labeling requirements. Monitors contractor compliance with the contract and all environmental and safety requirements during removal.

Contacts host personnel, customers, generating activities, facility personnel, and local environmental personnel to coordinate requirements of environmental policies and directives.

Ensures that RCRA recordkeeping requirements are complied with (e.g., facility operating records, training records, inspection schedule/log, contingency plan, HW management report, and unmanifested waste report). Ensures that local support agreements with Host and/or surrounding communities are in existence. Assists in the preparation of hazardous waste facility permit applications. Ensures that an internal spill contingency plan is prepared and complied with for Building 479.

Position Title: Environmental Scientist

Responsible for providing technical support to the Hazardous Waste Program. Ensure that hazardous waste is properly characterized and managed for transportation and disposal in accordance with established regulation, laws and the hazardous waste storage permit. Provides contractor oversight as required.

Position Title: DRMS DLA-DS Contracting Officer's Representative

SOUTHWEST DISTRICT

Responsibilities: Monitors DLA-DS contractor compliance with the DLA-DS waste disposal contract. Identifies and implements corrective actions for contractor deficiencies. Coordinates all waste management operations with the Field Compliance Manager and the Hazardous Waste Program Manager.

Position Title: DLA-DS Contractor Site Manager

Responsibilities: Maintains compliance of Building 479 in accordance with all elements of the RCRA Part B Permit. Maintains data integrity within the Enterprise Environmental Safety Occupational and Health Management Information System (EESOH-MIS) and identifies data problems to the 88th CEG/CEI. Prepares and maintains waste profile sheets.

Prepares and manifests all waste shipments for treatment and disposal in accordance with 40 CFR, 49 CFR and the DLA-DS waste disposal contract. Provides technical assistance to the Field Compliance Manager and the Hazardous Waste Program Manager. Serves as on-site safety manager.

Position Title: DLA-DS Contractor Field Personnel

Responsibilities: Coordinates and picks up waste containers from initial generating activities and stores containers in the appropriate locations within Building 479. Confirms proper labeling and marking of containers prior to pick up. Enters waste inventory into the EESOH-MIS and ensures data integrity. Performs weekly inspections and conducts general housekeeping. Assists the DLA-DS Contractor Site Manager as required.

POSITION TITLE: AFRRAD PERSONNEL

RESPONSIBILITIES: RECEIVES AND PROPERLY STORES ONLY MIXED WASTE FROM OFF-SITE GENERATORS. CONSOLIDATES ONLY MIXED WASTE CONTAINERS IN BUILDING 477. PREPARES SHIPPING PAPERS AND OTHER NECESSARY DOCUMENTS AND ARRANGES SHIPMENT OF THE CONSOLIDATED MIXED WASTE CONTAINERS FOR OFF-SITE DISPOSAL.

H.1b Training Content, Frequency, and Techniques [40 CFR 264.16(c) and 264.16(d)(3)]

Initial hazardous waste training for personnel who are involved with operations of WPAFB's hazardous waste permit at Building 479 is accomplished via a comprehensive training class. The class topics are identified in Table H-1. Annual refresher training is accomplished through either an outside vendor, an on-base class or a computer based training class. All topics in the initial class will be covered in the refresher class.

Hazardous waste training for personnel who are involved with operation of WPAFB's hazardous waste permit is managed by the Hazardous Waste Program Manager. Copies of training certificates are maintained within the 88th ABW/CEA CEG/CEI for review and inspection. Training status is monitored using a database spreadsheet.

H.1c Relevance of Training to Job Position [40 CFR 264.16(a)(2)]

Training is required for all personnel who are involved with operation of WPAFB's hazardous waste permit at Building 479 as outlined in Section H-1.b. The courses discussed provide instruction in the safe storage of hazardous materials and wastes.

H.1d Training for Emergency Response [40 CFR 264.16(a)(3)]

The CEA CEI training program ensures that its employees receive emergency response training for emergency response actions which may be necessary when operating WPAFB's hazardous waste permitted storage area (Building 479). Emergency response is also covered in classroom instruction with lectures and practical exercises. Training will include familiarizing personnel with response procedures for fire and spill, and will include familiarizing employees with the content of the contingency plan.

H.1d(1) Procedures for Using, Inspecting, Repairing, and Replacing Facility Emergency and Monitoring Equipment [40 CFR 264.16(a)(3)(i)]

Facility emergency and monitoring equipment is routinely inspected in accordance with the General Inspection Schedule (Table F-1). On-the-job training is provided as to the locations of equipment how to inspect, maintain and use each item, as well as replacement of equipment (if necessary) after the emergency is over.

H.1d(2) Key Parameters for Automatic Waste Feed Cut-Off Systems [40 CFR 264.16(a)(3)(ii)]

No automatic waste feed cut-off system will exist at the storage facilities. All hazardous wastes stored in Building 479 will be containerized in accordance with DOT specifications. No specialized training for automatic waste feed cut-off system is required.

H.1d(3) Communications or Alarm Systems [40 CFR 264.16(a)(3)(iii)]

Areas of training with respect to communications or alarm systems include supervisor on-the-job training in types of equipment available at the site and how to use them, locations of equipment, emergency telephone numbers to be used to summon external assistance, alarm codes, and how to maintain the equipment and frequency of serviceability checks.

H.1d(4) Response to Fires or Explosions [40 CFR 264.16(a)(3)(iv)]

In addition to hazardous waste management personnel, the Fire Department on WPAFB is continuously prepared to respond to all fires involving hazardous wastes. Specific procedures that will be followed in the event of a fire or explosion are outlined in the Contingency Plan (Section G).

H.1d(5) Response to Groundwater Contamination Incidents [40 CFR 264.16(a)(3)(v)]

The potential for groundwater contamination will be low because all hazardous wastes/materials will be stored in DOT-approved, leakproof containers. The floors of the Building 479 are coated with a chemically-resistant sealant. Each storage area provides containment in the event of a leak or spill. In addition, a pre-established Contingency Plan (Section G-4) will provide for swift cleanup, thereby minimizing the risk of an outside spill or leak. Personnel will be trained in spill response and Contingency Plan implementation. At a minimum, one simulated emergency response exercise (spill, fire or other) will be conducted each year to test the effectiveness and response of the installation response team.

H.1d(6) Shutdown of Operations [40 CFR 264.16(a)(3)(vi)]

When operations must shut down, no special actions are required; therefore, no specific training is required.

H.2 Implementation of Training Program [40 CFR 264.16(d)(4) and 264.16(b)]

Any employee assigned to manage/handle hazardous materials and hazardous wastes at Building 479 will complete the training program discussed in Section H.1 within 6 months of their date of employment. At a minimum, these employees will receive on-the-job training and will attend a RCRA course. On-the-job training will include, but not be limited to:

Any employee assigned to manage/handle hazardous materials and hazardous wastes at Building 479 will complete the training program discussed in Section H.1 within 6 months of their date of employment. At a minimum, these employees will receive on-the-job training and will attend a RCRA course. On-the-job training will include, but not be limited to:

- Chemical Compatibility
- Proper Container Storage Requirements
- Fire and Spill Prevention and Response
- Use of Personal Protective Equipment
- General Facility Security Requirements
- Emergency Equipment

No employee will work unsupervised with hazardous wastes until he/she successfully completes on-the-job training. New employees will not work in unsupervised positions until they have completed either on the job, initial or annual training.

All records documenting the job title for each position, job descriptions, employee names, date of training and completed training programs (both introductory and review) will be kept onsite in the ~~Asset~~ INSTALLATION Management Division. These records will be kept until closure of the facility for current employees and for 3 years from the date of termination for former employees.

**TABLE H-1. WRIGHT-PATTERSON AFB
HAZARDOUS WASTE MANAGEMENT TRAINING PROGRAM**

COURSE OUTLINE

Unit I	Introduction to RCRA (40 CFR)
Unit II	Define Hazardous Waste
Unit III	Generator Requirements
Unit IV	Storage Requirements
Unit V	Transporter Requirements
Unit VI	Safety and Chemical Compatibility
Unit VII	Universal Waste and Used Oil Management
Unit VIII	Class Exercise
Unit IX	Emergency Response and Contingency Plan
Unit X	Exam

SECTION I
CLOSURE PLAN, POST-CLOSURE PLAN AND
FINANCIAL REQUIREMENTS
BUILDINGS 478/479

This section is submitted in accordance with the requirements of 40 CFR 270.14(b)(13), 270.14(b)(15-18), 264.110-264.115, and 264.178.

I-1 Closure Plan [40 CFR 270.14(b)(13)]

Building 478 – Partial Closure Activities

As of November 20, 2001 Building 478 is no longer utilized as a permitted hazardous waste storage unit. Instead Building 478 has been converted for use as office space.

In order to utilize Building 478 as office space it was necessary to implement some parts of the closure plan. Specifically, the inside of Building 478 was decontaminated, and soil sampling was conducted relative to a former outdoor storage pad adjacent to Building 478. The following documents detail the closure activity which has been conducted relative to Building 478.

- 1) WPAFB'S April 22, 2002 written "Decontamination Report" received by Ohio EPA on April 26, 2002.
- 2) WPAFB'S July 19, 2002 closure certification report entitled "RCRA Partial Closure Activities, Building 478".

Ohio EPA review of these documents concluded the following. The interior of Building 478 appeared to have been successfully decontaminated. Soil sampling data suggests that soils beneath a former outdoor storage pad adjacent to Building 478 are contaminated above regulatory limits. Therefore Ohio EPA cannot certify closure of Building 478.

It was agreed that remaining closure activities relative to contaminated soils at Building 478 may be postponed until WPAFB closes Building 479. At that juncture WPAFB will submit a complete closure certification for both Buildings 478 and 479. These conclusions are documented

within Ohio EPA letters dated September 27, 2002 and December 3, 2002. The specific areas of contamination and exceedances of regulatory limits are noted there also.

This plan identifies all steps that will be necessary to complete closure of Buildings 478/479 located at WPAFB, at the end of their operating lives. The design of these units is not conducive to partial closure, therefore, no partial closure of the units is intended.

The WPAFB Asset INSTALLATION Management Division will maintain a copy onsite of the approved closure plan, and of all revisions to the plan. Revisions will be made whenever any modifications are made to the existing equipment, structures, instruments, or procedures related to the management of the facilities.

This closure plan is designed to ensure that the waste management areas will not require further maintenance and controls (i.e., the site will be "clean closed"); will eliminate the need for post-closure activity; and will minimize the release of hazardous waste, leachate, or contaminated rainfall to the air, groundwater, surface water, and surrounding land. It is WPAFB's intent to utilize best management practices to minimize spills and releases throughout the life of the facility. Good house-keeping will be continuously emphasized, and thus, closure activities are simplified to the extent possible.

Detailed descriptions of the steps needed to remove or decontaminate all hazardous waste residues and containment system components, equipment, and structures, during closure are included in this closure plan.

General Description

WPAFB is located in southwestern Ohio east of the city of Dayton. The Base occupies, 8,551 acres and is composed of two airfields (Wright and Patterson) separated by State Route 444 and the Consolidated Rail Corporation Tracks. Wright Field, designated as Area B, is situated in Montgomery and Greene counties. Patterson Field, composed of Area A, is located in Greene County, except for a 1.5 mile track adjacent to the Mad River which is located in Montgomery County. Clark County abuts the Base at the northeast property line. Buildings 478/479 are located in Area B. This introduction provides an overview of the units to be closed and the proposed closure procedures and related information. Map 1 identifies the physical location of each of these waste management areas.

The hazardous waste container storage facilities (Buildings 479) are as follows:

- Building 478 (Figure I-1) is a one-story concrete building on a concrete slab foundation. The building dimensions are approximately 30 by 50 feet. This unit handled wastes in containers with volumes ranging from 40 ml to 55-gallon drums.

This unit potentially handled all wastes listed in the Part A Permit. Appendix I-1 presents a list of wastes handled.

- ° Building 479 (Figure I-1) is a one-story 4-sided metal building on a concrete slab foundation. The buildings dimensions are approximately 50 by 85 feet. This unit primarily handles wastes in 55-gallon drums. This unit will potentially handle all of the wastes in the Part A permit (Appendix I-1).

Any employees and/or contractors directly involved in closure activities will have coveralls, safety glasses, hard hats, and gloves (Level D) available. Additional personal protective equipment may be necessary and will be used as described in the closure plan for each unit. Visitors to the site are required to wear safety glasses and safety shoes (when appropriate). Employee decontamination will take place when necessary. Employee decontamination consists of washing boots, disposing of any disposable clothing (gloves and dust masks), and hand washing. Air emissions resulting from closure activities will be minimized or eliminated by employing good management practices (e.g., taking into account wind direction and speed and proper waste handling during removal).

Due to the varying nature of the hazardous waste on site at any given time, an operational protocol will be developed just prior to closing any of the hazardous waste management areas. This protocol will delineate exactly which wastes are to be handled first, last, etc.; and any other appropriate waste specific directives such as method of treatment/disposal. In devising the operational protocol, the removal manager must: 1) identify the operational status of all equipment and arrange for necessary repairs; 2) identify the type and characteristics of the wastes and inventory; 3) develop an inventory reduction plan by specifying how, when, and where each waste will be managed; and 4) develop a staffing plan to ensure that the closure plan schedule is accomplished. This protocol cannot be established prior to closure because WPAFB cannot identify which wastes will be on site at the time of final closure, since there are several different wastes which could be present in varying quantities at any time.

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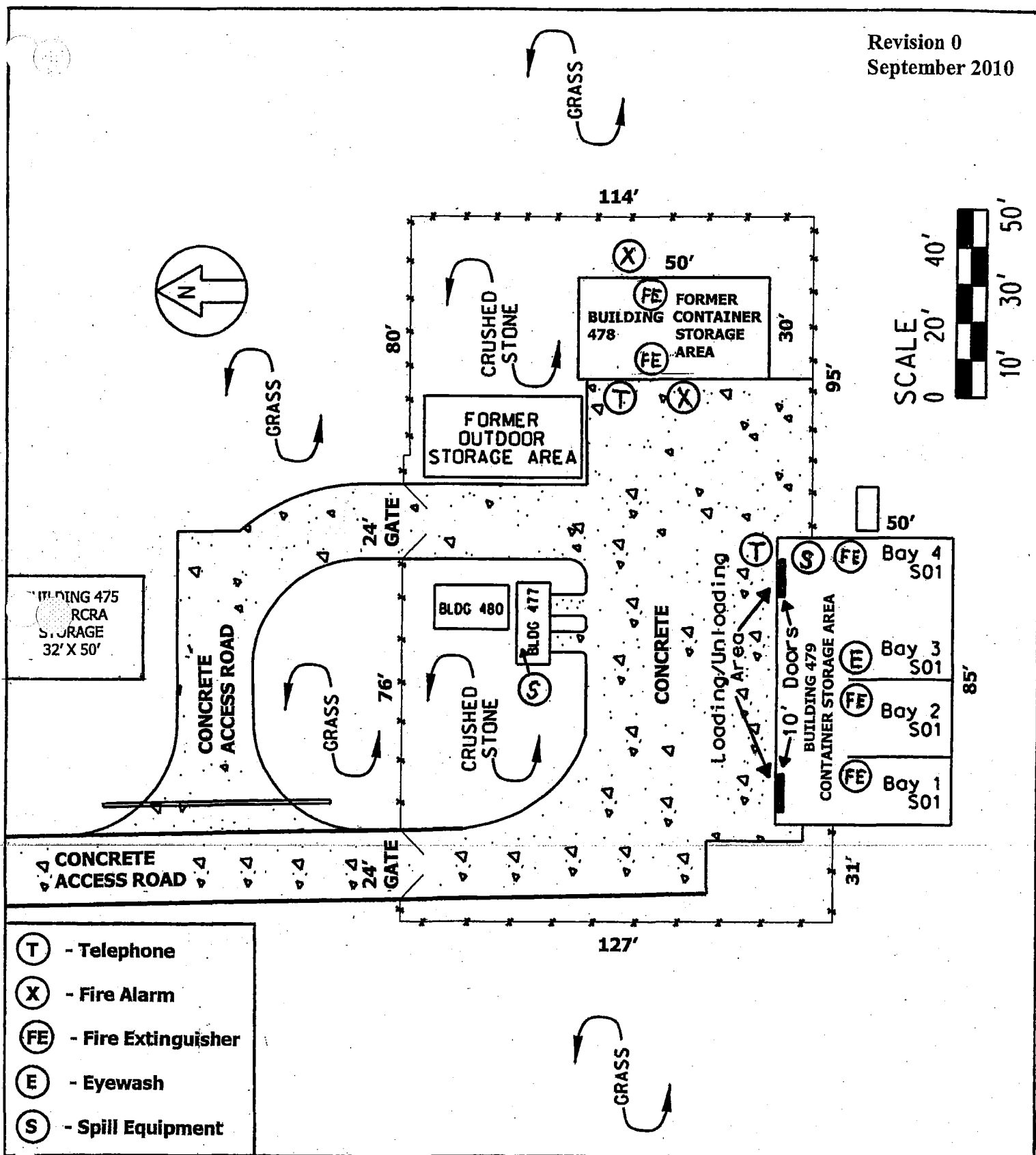


FIGURE I-1.
BUILDINGS 478/479 SITE PLAN

I-1a Closure Performance Standard [40 CFR 264.111]

Upon completion, this closure plan is designed to ensure that the RCRA-regulated waste management areas (i.e., the container storage areas) will not require further maintenance and controls, and that threatens to human health and the environment will be minimized or eliminated. All hazardous wastes onsite at the time of closure will be properly packaged, labeled, handled, and transported to permitted TSDF's for reclamation or disposal.

For Buildings 478/479 the following rinseate standards will be met before the surface of a hazardous waste management unit and its appurtenances or decontamination equipment are considered clean (per OEPA's Closure Plan Review Guidance Document, March 1999):

- 1) Fifteen times the public drinking water maximum contaminant level (MCL) for hazardous waste constituents as promulgated in 40 CFR 141.11 and OAC 3745-81-11 for inorganics and 40 CFR 141.12 and OAC 3745-81-12 for organics provided that fifteen times the MCL is less than or equal to 1 MG/L;
- 2) If the MCL is not available for a particular contaminant, then fifteen times the maximum contaminant level goal (MCLG) as promulgated in 40 CFR 141.50 should be used as the clean standard; that fifteen times the MCL is less than or equal to 1 MG/L. If the MCLG is zero, use fifteen times the contaminants practical quantitation limit (PQL) in groundwater provided that fifteen times the PQL is less than or equal to 1 MG/L; or
- 3) If the product of fifteen times the MCL or MCLG exceeds 1 mg/l or, if neither an MCL nor an MCLG is available for a particular contaminant, 1 mg/l shall be used as the clean standard.

I-1b Partial Closure and Final Closure Activities [40 CFR 264.112(b)(1) through 264.112(b)(7)]

WPAFB does not anticipate partial closure of any of the permitted waste management units. Although Buildings 478/479 are operated as one unit, partial closure may occur with one of the buildings being closed before the other. In this event, partial closure involving one of the buildings would follow the schedule and procedures outlined in Table I-1 and Section I-1e. The closure will be certified by a registered professional engineer. The schedule for closure is presented in Section I-1d.

I-1c Maximum Waste Inventory [40 CFR 264.112(b)(3)]

Building 478 stored the equivalent of a maximum of seventy-two 55-gallon drums or 3960 gallons, and Building 479 will store the equivalent of a maximum of 324 55-gallon drums or 17,820

gallons. Appendix I-1 presents a detailed list of hazardous wastes potentially stored at Buildings 478/479.

I-1d Schedule for Closure [40 CFR 264.112(b)(6)]

WPAFB is an integral part of the defense system of the United States; it is not anticipated that closure will occur. However, a closure date of 2039 can be estimated for Buildings 478/479.

Notification of intent to close will be sent to the Ohio EPA and the U.S. EPA, Region V, 180 days before beginning final closure of each facility. Final closure will be certified by a registered professional engineer.

Within 90 days after the receipt of the final volume of hazardous wastes, final closure activities will be initiated. Table I-1 presents an estimated schedule for closure, which gives an estimate of the total time required to close the facility and the time required for intervening closure activities.

I-1d(1) Extensions for Closure Time [40 CFR 264.113(a) and (b)]

No extension for closure time is anticipated. If, however, an extension would be necessary to properly close Buildings 478/479 then a petition will be sent to the Ohio EPA and the U.S. EPA, Region V, amending the closure schedule listed in Table I-1. This petition will demonstrate:

- The need for more than 180 days to close the facility;
- Reasonable likelihood that a person other than the owner/operator will recommence operation of the site;
- That all steps have and will be taken to prevent threats to human health and the environment from the unclosed but inactive facility.

TABLE I-1. ESTIMATED CLOSURE SCHEDULE FOR BUILDINGS 478/479

Activity	Days
1. Receipt of final volume of hazardous waste	0-10
2. Conduct final drum inventory, inspect and repack drums (if needed), prepare waste manifest, prepare drums for shipment	0-15
3. Removal/disposal of final waste inventory	15-45
4. Decontamination of drum storage areas and secondary containment trays	45-50
5. Removal, manifesting and disposal of solvent washing	50-85
6. Soil sampling and analysis	80-110
7. Removal, manifesting, and disposal of contaminated soil	110-140
8. Decontamination or disposal of equipment (storage racks, cabinets, pallets, tools, etc.)	140-160
9. Accounting of all waste shipment manifests	170
10. Completion of closure and certification submittal	180

I-1e Closure Procedures [40 CFR 264.112, 264.114]

This section of the closure plan addresses the specific, step-by-step procedures to be followed in closing the waste management units. Specifically, it addresses: inventory removal; disposal or decontamination of all related equipment, structures, and residuals; and the closure procedures for Buildings 478/479.

I-1e(1) Inventory Removal [40 CFR 264.112(b)(3)]

Upon formal notification to proceed with closure of either facility, no additional hazardous waste will be accepted. Furthermore, all hazardous waste/property remaining in inventory will be removed in accordance with a contractual agreement to a State- and/or EPA-Treatment, Storage or Disposal (TSD) facility or recycling site. The pallets with wastes will be lifted onto trucks using a forklift with extended reach and drum grabbers as necessary. Any repackaging of small containers into 55-gallon drums with absorbent materials will be conducted by the ~~DRMS~~ DLA-DS approved disposal contractor. If this process cannot be accomplished within the allotted time for closure an extension will be requested or, the hazardous property will be transferred to an operational ~~DRMO~~ DLA-DS with a valid TSD permit.

I-1e(2) Disposal or Decontamination of Equipment, Structures, Residuals, and Soils [40 CFR 264.112(b)(4), 264.114]

No hazardous waste from the permitted units will remain onsite. All related structures, (e.g., secondary containment areas) will be decontaminated during closure. The specific procedures to be followed for dismantling the waste storage units, decontaminating all structures, and disposing of all related materials and residuals are described below by unit. All units and associated/ancillary structures

will be washed and triple rinsed. The final rinseate will be analyzed for appropriate parameters to verify that the equipment and structures are clean. The specific analytical parameters to be determined will depend on the unit being closed and the associated waste(s) stored in the unit as discussed in Section I-1e(4).

The interior of Buildings 478/479 will be decontaminated by removing all residues from its interior surfaces. The bays, collection trenches, interior floors, walls, doors, and any waste handling equipment (such as forklifts or pallet movers) would be washed with a suitable cleaning agent.

Clean solutions will be used based on specific vendor recommendations; however, they generally will consist of a mild caustic solution for acid waste storage areas, water for alkali waste storage areas, and non-alkali detergents for other storage and handling areas.

The floors within Buildings 478/479 along with the collection trenches, berms, and separation walls between storage bays, will be scrubbed with stiff brooms and cleaning solutions to assure adequate cleaning. The cleaning solutions will be collected and removed manually by buckets or mops. Decontamination washwater will either be drummed or stored in a vacuum truck prior to disposal. If storage pads cannot be decontaminated after repeated washings, they will be disposed of as a hazardous waste.

The loading and unloading areas for Building 479 will also be decontaminated by using appropriate cleaning solutions and stiff brooms and brushes. Since these areas have sloped floors leading to collection trenches, the fluids and any residue removed will be collected manually by buckets and/or mops.

The containment trays and shelf units in Building 478 were moved to Building 479 to be used to store hazardous waste there and will be decontaminated and evaluated for decontamination effectiveness utilizing procedures described below for equipment. The loading/unloading area for 478 will also be decontaminated using clean solutions and stiff brooms and brushes. Washwater will be collected in a bermed area. The decontamination area will consist of a nylon reinforced polypropylene liner laid over grade. Hay bales will be placed under the perimeter of the liner and the liner will be folded over the bales creating a containment dike.

Contaminated equipment, including tools, and any other items used by personnel, will be decontaminated or disposed of as a hazardous waste. Contaminated protective clothing will be deposited in a contaminated clothing drum and disposed of offsite as a hazardous waste.

Decontamination of equipment will be accomplished by washing with a strong detergent wash. Larger equipment, such as forklifts, will be cleaned either with a detergent wash or a portable jet steam cleaner.

In addition to the proper removal and disposal or treatment of waste in inventory at closure, all contaminated equipment residues or wash waters generated and collected during the closure process will be evaluated for proper disposal. If the wash water fluids meet the discharge standards for the Base sanitary sewer, the fluids will be discharged to the sewer. If the fluids do not meet discharge

standards, they will be packaged as hazardous waste and shipped off base to an appropriate licensed disposal site or treatment facility.

Similarly, all residues and structures or equipment that will not be decontaminated will be packaged and shipped off base to an appropriate disposal site.

Sampling and testing methods to verify decontamination of equipment, structures, residuals and soils are discussed in Section I-1e(4).

I-1e(3) Closure of Disposal Units/Contingent Closures [40 CFR 270.14(b)(13), 270.17(f), 270.18(h), 270.21(e), 264.228(a)(2), 264.228(c)(1)(i), 264.258(c), 264.258(c)(1)(i), 264.310(a), 264.601]

Not applicable, WPAFB does not operate any disposal units.

I-1e(4) Closure of Containers [40 CFR 264.178, 264.112(b)(3)]

At closure, the containers from Buildings 478/479 will be sealed and labeled prior to shipment in accordance with 40 CFR Sections 261 and 262. Manifests for container removal will be maintained at the WPAFB Asset INSTALLATION Management Division.

Following the removal of all wastes a Registered Professional Engineer will inspect the container storage area concrete floors, and containment trenches for any breaches in the secondary containment system. If any cracks are present that indicate waste may have contacted the soil beneath the concrete, one soil sample will be collected from beneath each cracked area and analyzed as described in Table I-2. All such areas will be sealed prior to the commencement of cleaning to prevent migration of rinseate out of the containment area. Additionally, soil sampling will be conducted for the area where waste was stored on the ground at Building 478. Building 478 loading/unloading area will be included in the sampling area. Grid sampling will be conducted based on Ohio EPA Closure Plan Review Guidance Document - March 1999. Samples would be analyzed as described in Table I-2. Sampling methods and equipment, as well as laboratory analytical methods will follow guidance in U.S. EPA's SW-846, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, Third Edition. In addition to grid sampling, a sample will be taken from any area that is found, by visual inspection, to be discolored or otherwise impaired. If the soil sample analysis (for either the outdoor storage area or beneath cracks) exceeds the acceptable "risk-based clean" levels outlined

**TABLE I-2. PARAMETERS AND METHODS FOR ANALYTICAL TESTING FOR
CLOSURE OF HAZARDOUS WASTE MANAGEMENT UNITS**

Unit/Sample	No. of Samples	Analytical Parameters	Analytical* Methods
1. Building 478			
Finale Rinseate	33	(30 trays **, flammable storage cabinet loading/unloading area and the concrete floor of the building)	
Soil (if necessary)	TBD		
		Appendix IX	
		Metals	6010/7000
		Volatile Organics	8240
		Semivolatile Organics	8270
2. Building 479			
Final Rinseate	20	(1 from each trench and 12 trays)	
Soil (if necessary)	TBD		
		Appendix IX	
		Metals	6010/7000
		Volatile Organics	8240
		Semivolatile Organics	8270

* Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods (SW-846), U.S. EPA, Nov. 1986, 3rd Edition.

** 30 trays moved to Building 479 and are being utilized to store hazardous waste there.

TBD - To be determined based on a size of area to be sampled and presence, if any, of structural cracks in the containment area.

in OEPA's Closure Plan Review Guidance Document (March 1999), then the soil will be excavated and disposed. Excavated soil will be disposed of at a properly permitted TSDF. Should it be determined that soil excavation and disposal is not possible, then WPAFB will either treat the soil in-situ or conduct a risk assessment resulting in the submittal of a revised closure plan.

Once the berms, walls, concrete floors and containment trenches have been washed they will be tripled rinsed with clean water. Wash waters and rinseate [from the decontamination efforts outlined in Section I-13(s)] will be sampled and analyzed for the compounds listed in Table I-2.

Upon completion of waste removal and decontamination, from any of the units, the units will be evaluated to determine that all waste and hazardous constituents have been removed. This evaluation will be made using the analytical results from rinseate samples described above. The following number of rinseate samples will be collected, analyzed, and evaluated:

- ° One sample from each collection trench in Building 479
- ° One sample from each storage tray, formerly used in Building 478 and now utilized in Building 479 (and any storage trays used in 479)
 - ° Building 478 loading/unloading area (loading/unloading area from 479 is within the contained areas of Bays 1 and 4)
 - ° Concrete floor of Building 478

The actual number may differ from those specified above to reflect actual conditions. In no circumstances would a number less than the above be evaluated.

The building, equipment, and structures will be designated as decontaminated if the final rinseate samples indicate that the type of wastes stored in this area meet the criteria presented in Section I-1a. The samples will be analyzed for the compounds in Table I-2.

Should the analyses confirm that additional decontamination is necessary, it would be completed as defined above. Following the completion of the above closure procedures and analytical confirmation that the waste storage and handling areas have been properly decontaminated, certification of closure will be completed. This will be accomplished by demonstrating that 40 CFR Part 261 Appendix VIII hazardous constituents (commonly referred to as the Appendix IX list) will not be present to impact any environmental media in excess of Agency established exposure levels, or pose a threat to human health and the environment.

I-1e(5) Closure of Tanks [40 CFR 264.178]

No tanks will be used to store wastes at this facility.

I-1e(6) Closure of Waste Piles [40 CFR 270.18(i) and 264.258]

No waste piles will be located at this facility.

I-1e(7) Closure of Surface Impoundments [40 CFR 270.17(g) and 264.228]

No surface impoundments will be located at this facility.

I-1e(8) Closure of Incinerators [40 CFR 264.351]

No incinerators will be located at this facility.

I-1e(9) Closure of Landfills [40 CFR 270.21(e) and 264.310(a)]

No landfills will be located at this facility.

I-1e(10) Closure of Land Treatment [40 CFR 270.20(d)(6), 264.280(a) and (b)]

No land treatment activities will occur at this facility.

I-1f Certification of Closure [40 CFR 264.115]

Certification that closure of the hazardous waste storage facility has been completed in accordance with the approved closure plan will be made by the owner and operator of the facility, as well as by registered professional engineer. Certification of closure will be submitted to the regional administrator.

I-2 Post Closure Plan [40 CFR 270.14(b)(13) and 264.118]

A Post-Closure plan will not be needed because this permit only addresses a storage facility. All wastes will be removed and the storage areas will be cleaned closed.

**I-3 Notice to Local Land Authority and Notice in Deed to Property
[40 CFR 264.119 and 264.120]**

WPAFB operates as a hazardous waste storage facility, not a disposal facility. Therefore, notice to the local land authority is not necessary. A notation is not necessary in the deed to inform potential purchasers of restrictions associated with a disposal site, as required by the regulations cited for this section.

I-4 Closure Cost Estimate [40 CFR 270.14(b)(15) and 264.142(a) and (b)]

The Federal Government is exempt from the financial requirements of hazardous waste regulation. WPAFB is owned and operated by the Federal Government. Therefore, closure costs and insurance documentations are not required, and Sections I-4 through I-9 do not apply to this facility.

I-5 Financial Assurance Mechanism for Closure [40 CFR 264.143 and 264.150]

Not applicable.

I-6 Post-Closure Estimate [40 CFR 264.144]

Not applicable.

I-7 Financial Assurance Mechanism for Post-Closure [40 CFR 264.145]

Not applicable.

I-8 Liability Insurance [40 CFR 264.147]

Not applicable.

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APPENDIX I-1
HAZARDOUS WASTES POTENTIALLY STORED
IN BUILDING 479

JUN 27 2011

DIV. OF HAZARDOUS
WASTE MGT.

00306

HAZARDOUS WASTE THAT WRIGHT-PATTERSON CURRENTLY STORES

Chemical Name	EPA Hazardous Waste Number	Hazard	Estimated Annual Quantity (in pounds)
Ignitables	D001	Ignitable	30,000
Corrosives	D002	Corrosive	22,000
Reactives	D003	Reactive	10,000
Arsenic	D004	TCLP	1
Barium	D005	TCLP	1
Cadmium	D006	TCLP	1
Chromium	D007	TCLP	1
Lead	D008	TCLP	25,000
Mercury	D009	TCLP	1
Selenium	D010	TCLP	1
Silver	D011	TCLP	1
Endrin	D012	TCLP	1
Lindane	D013	TCLP	1
Methoxychlor	D014	TCLP	1
Toxaphene	D015	TCLP	1
2,4-D	D016	TCLP	1
2,4,5-TP Silvex	D017	TCLP	1
Benzene	D018	TCLP	1
Carbon tetrachloride	D019	TCLP	1
Chlordane	D020	TCLP	1
Chlorobenzene	D021	TCLP	1
Chloroform	D022	TCLP	1
O-Cresol	D023	TCLP	1
M-Cresol	D024	TCLP	1
P-Cresol	D025	TCLP	1
Cresol	D026	TCLP	1
1,4-Dichlorobenzene	D027	TCLP	1

(continued)

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HAZARDOUS WASTE TABLE (continued)

Chemical Name	EPA Hazardous Waste Number	Hazard	Estimated Annual Quantity (in pounds)
1,2-Dichloroethane	D028	TCLP	1
1,1-Dichloroethylene	D029	TCLP	1
2,4-Dinitrotoluene	D030	TCLP	1
Heptachlor	D031	TCLP	1
Hexachlorobenzene	D032	TCLP	1
Hexachloro-1,3-Butadiene	D033	TCLP	1
Hexachloroethane	D034	TCLP	1
Methyl Ethyl Ketone	D035	TCLP	1
Nitrobenzene	D036	TCLP	1
Pentachlorophenol	D037	TCLP	1
Pyridine	D038	TCLP	1
Tetrachloroethylene	D039	TCLP	1
Trichloroethylene	D040	TCLP	1
2,4,5-Trichlorophenol	D041	TCLP	1
2,4,6-Trichlorophenol	D042	TCLP	1
Vinyl Chloride	D043	TCLP	1
Spent Halogenated Solvents	F001	Toxic	1,600
Spent Halogenated Solvents	F002	Toxic	9,000
Spent Non-Halogenated Solvents	F003	Toxic	16,000
Spent Non-Halogenated Solvents	F004	Toxic	90
Spent Non-Halogenated Solvents	F005	Toxic	16,000
Wastewater Treatment Sludges from Electroplating Operations	F006	Toxic	1
Spent Cyanides	F007	Reactive, Toxic	1,520
Spent Plating Bath Residues	F008	Toxic	1,000
Spent Stripping and Bath Solutions	F009		4,000
Quenching Bath Sludge from Oil Baths from Metal Heat Treating Operations	F010	Toxic	1

(continued)

HAZARDOUS WASTE TABLE (continued)

Chemical Name	EPA Hazardous Waste Number	Hazard	Estimated Annual Quantity (in pounds)
Spent Cyanide Solutions	F011	Toxic	1
Quenching Wastewater Treatment Sludges	F012	Toxic	1
Wastewater Treatment Sludges	F019	Toxic	1
Wastes from the Production and Manufacturing Use of tri-, or tetrachlorophenol	F020	Toxic	1
Wastes from the Production and Manufacturing Use of pentachlorophenol	F021	Toxic	1
Wastes from the Manufacturing Use of tetra, penta, or hexachloro-benzenes	F022	Toxic	1
Wastes from the Production of Materials on Equipment previously used for the Production and Manufacturing use of tri-, and tetrachlorophenols	F023	Toxic	1
Wastes from the Production of chlorinated aliphatic hydrocarbons	F024	Toxic	1
Wastes from the Production of Materials on Equipment previously used for the Production and Manufacturing of tetra-, penta-, or hexachlorobenzenes	F026	Toxic	1
Discarded Unused Formulations containing tri-, tetra, or pentachlorophenols	F027	Toxic	1
Residues Resulting from Incineration or Thermal Treatment of Soil Contaminated with EPA Hazardous Wastes Nos. F020, F021, F022, F023, F026, and F027	F028	Toxic	1
Leachate	F039	Toxic	1
3-(Alpha-Acetyl Benzene) 4 Hydroxycoumayl	P001	Corrosive, Toxic	25
1- Acetyl-2-thiourea	P002	Toxic	1
Acrolein	P003	Toxic	1

(continued)

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HAZARDOUS WASTE TABLE (continued)

Chemical Name	EPA Hazardous Waste Number	Hazard	Estimated Annual Quantity (in pounds)
Aldrin	P004	Toxic	1
Allyl Alcohol	P005	Toxic	1
Aluminum Phosphide	P006	Toxic	1
5-(Aminomethyl)-3-isoxazoleol	P007	Toxic	1
4-a Aminopyridine	P008	Toxic	1
Ammonium Picrate	P009	Reactive	1
Arsenic Acid	P010	Toxic	1
Arsenic Pentoxide	P011	Toxic	1
Arsenic Trioxide	P012	Toxic	1
Barium Cyanide	P013	Toxic	1
Triphenol	P014	Toxic	1
Beryllium Dust	P015	Toxic	1
Bis(chloromethyl) Ether	P016	Toxic	1
Bromoacetone	P017	Toxic	1
Brucine	P018	Toxic	1
Dinoseb	P020	Toxic	1
Calcium Cyanide	P021	Toxic	1
Carbon Disulfide	P022	Toxic	35
Chloroacetaldehyde	P023	Toxic	1
p-Chloroaniline	P024	Toxic	1
Thiourea, (2-chlorophenyl)-	P026	Toxic	1
3-Chloropropionitrile	P027	Toxic	3
Benzyl Chloride	P028	Toxic	1
Copper Cyanides	P029	Toxic	100
Cyanides	P030	Toxic	1,500
Cyanogen	P031	Toxic	1
Chlorine Cyanide	P033	Toxic	1

(continued)

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HAZARDOUS WASTE TABLE (continued)

Chemical Name	EPA Hazardous Waste Number	Hazard	Estimated Annual Quantity (in pounds)
4,6-Dinitro-O-cyclohexylphenol	P034	Toxic	1
Dichlorophenylarsine	P036	Toxic	1
Dieldrin	P037	Toxic	1
Diethylarsine	P038	Toxic	1
Disulfoton	P039	Toxic	1
O,O-Diethyl O-pyrazinyl Phosphorothioate	P040	Toxic	1
Diethyl-p-nitrophenyl Phosphate	P041	Toxic	1
Epinephrine	P042	Toxic	1
Diisopropyl Fluorophosphate	P043	Toxic	1
Dinethoate	P044	Toxic	1
Thiofanox	P045	Toxic	1
alpha, alpha-Dimethylphethylamine	P046	Toxic	1
4,6-Dinitro-O-cresol and Salts	P047	Toxic	1
2,4-Dinitrophenol	P048	Toxic	1
2,4-Dithiobiuret	P049	Toxic	1
Endosulfan	P050	Toxic	1
Endrin	P051	Toxic	1
Aziridine	P054	Toxic	1
Fluorine	P056	Toxic	1
Fluoroacetamide	P057	Toxic	1
Acetic Acid, fluoro-, Sodium Salt	P058	Toxic	1
Heptachlor	P059	Toxic	1
Hexachlorohexahydro-exo,exo-dimethanonaphthalene	P060	Toxic	1
Hexaethyl Tetraphosphate	P062	Toxic	1
Hydrocyanic Acid	P063	Toxic	1
Methyl Isocyanate	P064	Toxic	1

(continued)

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HAZARDOUS WASTE TABLE (continued)

Chemical Name	EPA Hazardous Waste Number	Hazard	Estimated Annual Quantity (in pounds)
Mercury Fulminate	P065	Reactive, Toxic	1
Methomyl	P066	Toxic	1
2-Methylaziridine	P067	Toxic	1
Methyl Hydrazine	P068	Toxic	1
2-Methylactonitrile	P069	Toxic	1
Aldicarb	P070	Toxic	1
Methyl Parathion	P071	Toxic	1
THIOUREA, 1-NAPHTHALENYL-	P072	TOXIC	1
Nickel Carbonyl	P073	Toxic	1
Nickel Cyanide	P074	Toxic	1
Nicotine and Salts	P075	Toxic	1
Nitric Oxide	P076	Toxic	1
P-Nitroaniline	P077	Toxic	1
Nitrogen Dioxide	P078	Toxic	1
Nitroglycerine	P081	Toxic/Reactive	1
Dimethylnitrosamine	P082	Toxic	1
N-Nirosomethylvinylamine	P084	Toxic	1
Diphosphoramidate, Octamethyl	P085	Toxic	1
Osmium Oxide	P087	Toxic	1
Endothall	P088	Toxic	1
Parthion	P089	Toxic	1
Mercury, (acetato-O) phenyl-	P092	Toxic	1
N-Phenylthiourea	P093	Toxic	1
Phorate	P094	Toxic	1
Phosgene	P095	Toxic	1
Phosphine	P096	Toxic	1
Famphur	P097	Toxic	1

(continued)

HAZARDOUS WASTE TABLE (continued)

Chemical Name	EPA Hazardous Waste Number	Hazard	Estimated Annual Quantity (in pounds)
Pottassium Cyanide	P098	Toxic	30
Pottasium Silver Cyanide	P099	Toxic	1
Ethyl Cyanide	P101	Toxic	1
Propargyl Alcohol	P102	Toxic	2
Selenourea	P103	Toxic	1
Silver Cyanide	P104	Toxic	1
Sodium Azide	P105	Toxic	5
Sodium Cyanide	P106	Toxic	500
Strontium Sulfide	P107	Toxic	1
Strychnine and Salts	P108	Toxic	1
Tetraethyldithiopyrophosphate	P109	Toxic	1
Tetraethyl Lead	P110	Toxic	1
Tetraethyl Pyrophosphate	P111	Toxic	1
Tetranitromethane	P112	Toxic	1
Thallic Oxide	P113	Toxic	1
Thallium (I) Selenite	P114	Toxic	1
Thallium (I) Sulfate	P115	Toxic	1
Thiosemicarbazide	P116	Toxic	1
Trichloromethanethiol	P118	Toxic	1
Ammonium Vanadate	P119	Toxic	1
Vanadium Pentoxide	P120	Toxic	1
Zinc Cyanide	P121	Toxic	1
ZINC PHOSPHIDE	P122	REACTIVE, TOXIC	1
TOXAPHENE	P123	TOXIC	1
Carbofuran	P127	Toxic	1
Mexacarbate	P128	Toxic	1
Tirpate	P185	Toxic	1

(continued)

HAZARDOUS WASTE TABLE (continued)

Chemical Name	EPA Hazardous Waste Number	Hazard	Estimated Annual Quantity (in pounds)
Physostigmine Salicylate	P188	Toxic	1
Carbosulfan	P189	Toxic	1
Metolcarb	P190	Toxic	1
Dimetilan	P191	Toxic	1
Isolan	P192	Toxic	1
Oxamyl	P194	Toxic	1
Manganese dimethyldithiocarbamate	P196	Toxic	1
Formparanate	P197	Toxic	1
Formetanate hydrochloride	P198	Toxic	1
Methiocarb	P199	Toxic	1
Promecarb	P201	Toxic	1
m-Cymenyl methylcarbamate	P202	Toxic	1
Aldicarb Sulfone	P203	Toxic	1
Physostigmine	P204	Toxic	1
Ziram	P205	Toxic	1
Ethanol	U001	Ignitable	1
Acetone	U002	Toxic	500
Acetonitrile	U003	Ignitable, Toxic	2
Acetophenone	U004	Toxic	2
2-Acetylaminofluorene	U005	Toxic	1
Acetyl Chloride	U006	Corrosive, Reactive, Toxic	3
Acrylamide	U007	Toxic	1
Acrylic Acid	U008	Ignitable	1
Acrylonitrile	U009	Toxic	22
Mitomycin	U010	Toxic	1
Amitrole	U011	Toxic	1

(continued)

SOUTHWEST DISTRICT

HAZARDOUS WASTE TABLE (continued)

Chemical Name	EPA Hazardous Waste Number	Hazard	Estimated Annual Quantity (in pounds)
Aniline	U012	Toxic	25
Auramine	U014	Toxic	1
Azaserine	U015	Toxic	1
Benz[c] Acridine	U016	Toxic	1
Benzal Chloride	U017	Toxic	1
1,2-Benzathracene	U018	Toxic	1
Benzene	U019	Ignitable, Toxic	260
Benzenesulfonyl Chloride	U020	Corrosive, Reactive	1
Benzidine	U021	Toxic	1
3,4-Benzopyrene	U022	Toxic	1
Benzene, (trichloromethyl)-	U023	Corrosive	20
Bis(2-chloroethoxy) Methane	U024	Toxic	1
Dichloroethyl Ether	U025	Toxic	1
Chlornaphazine	U026	Toxic	1
Bis(2-chloroisopropyl) Ether	U027		1
Bis(2-ethylhexyl) Phthalate	U028	Toxic	1
Methyl Bromide	U029	Toxic	1
4-Bromophenyl Phenyl Ether	U030	Toxic	1
1-Butanol	U031	Ignitable	70
Chromic Acid, Calcium Salt	U032	Toxic	35
Carbonyl Fluoride	U033	Reactive, Toxic	1
Chloral	U034	Toxic	1
Chlorambucil	U035	Toxic	1
Chlordane, Technical	U036	Toxic	15
Chlorobenzene	U037	Toxic	65
Ethyl 4,4'-dichlorobenzilate	U038	Toxic	1
4-Chloro-m-cresol	U039	Toxic	1

(continued)

HAZARDOUS WASTE TABLE (continued)

Chemical Name	EPA Hazardous Waste Number	Hazard	Estimated Annual Quantity (in pounds)
Oxirane, 2-(chloromethyl)-	U041	Toxic	1
Ethane, 2-chloroethoxy-	U042	Toxic	1
Vinyl Chloride	U043	Toxic	1
Chloroform	U044	Toxic	1,100
Methyl Chloride	U045	Ignitable, Toxic	1
Methane, Chloromethoxy-	U046	Toxic	1
beta-Chloronaphthalene	U047	Toxic	4
o-Chlorophenol	U048	Toxic	1
Benzenamine, 4-chloro-2-methyl	U049	Toxic	1
Chrysene	U050	Toxic	1
Creosote	U051	Toxic	1
Cresols	U052	Toxic	28
2-Butenal	U053	Toxic	1
Cumene	U055	Ignitable	1
Cyclohexane	U056	Ignitable	200
Cyclohexanone	U057	Ignitable	44
Cyclophosphamide	U058	Toxic	1
Daunomycin	U059	Toxic	1
DDD	U060	Toxic	1
DDT	U061	Toxic	1
Diallate	U062	Toxic	1
Dibenz[a,]anthracene	U063	Toxic	1
Dibenz[a,i]pyrene	U064	Toxic	1
1,2-Dibromo-3-chloropropane	U066	Toxic	1
Ethylene Dibromide	U067	Toxic	2
Methylene Bromide	U068	Toxic	1
Dibutyl Phthalate	U069	Toxic	3

(continued)

HAZARDOUS WASTE TABLE (continued)

Chemical Name	EPA Hazardous Waste Number	Hazard	Estimated Annual Quantity (in pounds)
Benzene, 1,2-dichloro-	U070	Toxic	4
m-Dichlorobenzene	U071	Toxic	15
p-Dichlorobenzene	U072	Toxic	2
3,3'-Dichlorobenzidine	U073	Toxic	1
1,4-Dichloro-2-butene	U074	Ignitable, Toxic	1
Dichlorodifluoromethane	U075	Toxic	1
Ethane, 1,1-dichloro-	U076	Toxic	3,000
Ethylene Dichloride	U077	Toxic	1
1,1-Dichloroethylene	U078	Toxic	1
1,2-Dichloroethylene	U079	Toxic	1
Methane, dichloro-	U080	Toxic	815
2,4-Dichlorophenol	U081	Toxic	1
2,6-Dichlorophenol	U082	Toxic	1
Propylene Dichloride	U083	Toxic	1
1,3-Dichloropropene	U084	Toxic	1
2,2'-Bioxirane	U085	Ignitable, Toxic	1
N,N-Diethyldiazine	U086	Toxic	1
O,O-Diethyl-S-methyl-dithiophosphate	U087	Toxic	1
Diethyl Phthalate	U088	Toxic	2
Diethylstilbestrol	U089	Toxic	1
Dihydrosafrole	U090	Toxic	1
3,3'-Dimethoxybenzidine	U091	Toxic	1
Dimethylamine	U092	Toxic	1
Dimethylaminoazobenzene	U093	Toxic	1
7,12-Dimethylbenz[a]anthracene	U094	Toxic	1
3,3'-Dimethylbenzidine	U095	Toxic	1
alpha, alpha-Dimethylbenzyl-	U096	Reactive	1,500

(continued)

HAZARDOUS WASTE TABLE (continued)

Chemical Name	EPA Hazardous Waste Number	Hazard	Estimated Annual Quantity (in pounds)
hydroperoxide			
Dimethylcarbamoyl Chloride	U097	Toxic	1
1,1-Dimethylhydrazine	U098	Toxic	3
1,2-Dimethylhydrazine	U099	Toxic	1
2,4-Dimethylphenol	U101	Toxic	2
Dimethyl Phthalate	U102	Toxic	1
Dimethyl Sulfate	U103	Toxic	1
2,4-Dinitrotoluene	U105	Toxic	1
2,6-Dinitrotoluene	U106	Toxic	1
Din-n-octyl phthalate	U107	Toxic	1
1,4-Dioxane	U108	Toxic	15
1,2-Dephenylhydrazine	U109	Toxic	1
Dipropylamine	U110	Ignitable	1
Di-N-propylnitrosamine	U111	Toxic	1
Ethyl Acetate	U112	Ignitable	16,000
Ethyl Acrylate	U113	Ignitable	1
Ethylenebis(dithiocarbamic acid)	U114	Toxic	1
Oxirane	U115	Ignitable, Toxic	1
Ethylene Thiourea	U116	Toxic	1
Ethyl Ether	U117	Ignitable	485
Ethylmethacrylate	U118	Toxic	1
Ethyl Methanesulfonate	U119	Toxic	1
Fluoranthene	U120	Toxic	1
Trichloromonofluoromethane	U121	Toxic	1
Formaldehyde	U122	Toxic	200
Formic Acid	U123	Corrosive, Toxic	12
Furan	U124	Ignitable	2

(continued)

HAZARDOUS WASTE TABLE (continued)

Chemical Name	EPA Hazardous Waste Number	Hazard	Estimated Annual Quantity (in pounds)
2-Furancarboxaldehyde	U125	Ignitable	200
Glycidylaldehyde	U126	Toxic	1
Hexachlorobenzene	U127	Toxic	2
Hexachlorobutadiene	U128	Toxic	1
Lindane	U129	Toxic	1
Hexachlorocyclopentadiene	U130	Toxic	1
Hexachloroethane	U131	Toxic	1
Hexachlorophene	U132	Toxic	1
Hydrazine	U133	Toxic/Reactive	6
Hydrogen Fluoride	U134	Corrosive, Toxic	260
Hydrogen Sulfide	U135	Toxic	1
Cacodylic Acid	U136	Toxic	1
Ideno[1,2,3-cd] pyrene	U137	Toxic	1
Methane, iodo-	U138	Toxic	2
Iron Detran	U139	Toxic	1
Isobutyl Alcohol	U140	Ignitable, Toxic	3
Isosafrole	U141	Toxic	1
Kepone	U142	Toxic	1
Lasiocarpine	U143	Toxic	1
Lead Acetate	U144	Toxic	4
Phosphoric Acid, Lead Salt	U145	Toxic	8
Lead Subacetate	U146	Toxic	1
Maleic Hydrazine	U147	Toxic	2
Maleic Hydrazine	U148	Toxic	1
Malononitrile	U149	Toxic	1
Melphalon	U150	Toxic	4
Mercury	U151	Toxic	1,600

(continued)

HAZARDOUS WASTE TABLE (continued)

Chemical Name	EPA Hazardous Waste Number	Hazard	Estimated Annual Quantity (in pounds)
Methacrylonitrile	U152	Ignitable, Toxic	1
Methanethiol	U153	Ignitable, Toxic	1
Methyl Alcohol	U154	Ignitable	1,500
Methapyrilene	U155	Toxic	1
Methyl Chlorocarbonate	U156	Ignitable, Toxic	35
3-Methylcholanthrene	U157	Toxic	1
4,4'-Methylenebis (2-chloro-aniline)	U158	Toxic	1
Methyl Ethyl Ketone	U159	Ignitable, Toxic	1,100
2-Butanone Peroxide	U160	Reactive, Toxic	1
METHYL ISOBUTYL KETONE	U161	IGNITABLE, TOXIC	1
Methyl Methacrylate	U162	Ignitable, Toxic	1
Guanidine, N-nitroso-N-methyl-N'nitro	U163	Toxic	1
Methylthiouracil	U164	Toxic	1
Naphthalen	U165	Toxic	1
1,4-Naphthaquinone	U166	Toxic	1
1-Naphthylamine	U167	Toxic	1
2-Naphthylamine	U168	Toxic	1
Nitrobenzene	U169	Ignitable, Toxic	1
p-Nitrophenol	U170	Toxic	1
2-Nitropropane	U171	Toxic	1
N-Nitrosodi-n-butylamine	U172	Toxic	1
N-Nitrosodiethanolamine	U173	Toxic	1
N-Nitrosodiethylamine	U174	Toxic	1
N-Nitroso-N-ethylurea	U176	Toxic	1
N-Nitroso-N-methylurea	U177	Toxic	1
N-Nitroso-N-methylurthane	U178	Toxic	1
N-Nitrosopiperidine	U179	Toxic	1

(continued)

HAZARDOUS WASTE TABLE (continued)

Chemical Name	EPA Hazardous Waste Number	Hazard	Estimated Annual Quantity (in pounds)
N-Nitrosopyrrolidine	U180	Toxic	1
5-Nitro-o-toluidine	U181	Toxic	1
Paraldehyde	U182	Toxic	1,500
Pentachlorobenzene	U183	Toxic	2
Pentachloroethane	U184	Toxic	1
Pentachloronitrobenzene	U185	Toxic	1
1,3-Pentadiene	U186	Ignitable	1
Phenacetin	U187	Toxic	1
Phenol	U188	Toxic	4
Sulfur Phosphide	U189	Reactive	1
1,2-Benzenedicarboxylic Acid Anhydride	U190	Toxic	20
2-Picoline	U191	Toxic	1
Pronamide	U192	Toxic	1
1,3-Propane Sultone	U193	Toxic	1
1-Propanamine	U194	Ignitable, Toxic	1
Pyridine	U196	Toxic	175
p-Benzoquinone	U197	Toxic	1
Reserpine	U200	Toxic	1
Resorcinol	U201	Toxic	2
Saccharin and Salts	U202	Toxic	1
Safrole	U203	Toxic	1
Selenium Dioxide	U204	Toxic	2
Selenium Disulfide	U205	Reactive, Toxic	1
Streptozotocin	U206	Toxic	1
Benzene, 1,2,4,5-tetrachloro-	U207		1
1,1,1,2-Tetrachloroethane	U208	Toxic	1
1,1,2,2-Tetrachloroethane	U209	Toxic	20

(continued)

SOUTHWEST DISTRICT

HAZARDOUS WASTE TABLE (continued)

Chemical Name	EPA Hazardous Waste Number	Hazard	Estimated Annual Quantity (in pounds)
Tetrachloroethylene	U210	Toxic	1,500
Carbon Tetrachloride	U211	Toxic	140
Tetrahydrofuran	U213	Ignitable	1,200
Thallium (I) Acetate	U214	Toxic	1
Thallium (I) Carbonate	U215	Toxic	1
Thallium (I) Chloride	U216	Toxic	1
Thallium (I) Nitrate	U217	Toxic	1
Thioacetamide	U218	Toxic	1
Thiourea	U219	Toxic	1
Toluene	U220	Toxic	2,200
Toluenediamine	U221	Toxic	2
O-Toluidine Hydrochloride	U222	Toxic	1
Toluene Diisocyanate	U223	Reactive, Toxic	1
Bromoform	U225	Toxic	1
1,1,1-Trichloroethane	U226	Toxic	4,500
1,1,2-Trichloroethane	U227	Toxic	40
Trichloroethylene	U228	Toxic	1,530
Sym-Trinitrobenzene	U234	Reactive, Ignitable	1
Tris(2,3-dibromopropyl) Phosphate	U235	Toxic	1
Typan Blue	U236	Toxic	1
Uracil Mustard	U237	Toxic	1
Ethyl Carbamate (urethan)	U238	Toxic	1
Xylene	U239	Ignitable	1,155
2,44-D, Salts and Esters	U240	Toxic	1
Hexachloropropene	U243	Toxic	1
Thiram	U244	Toxic	1
Cyanogen Bromide	U246	Toxic	1

(continued)

HAZARDOUS WASTE TABLE (continued)

Chemical Name	EPA Hazardous Waste Number	Hazard	Estimated Annual Quantity (in pounds)
Methoxychlor	U247	Toxic	1
Warfarin	U248	Toxic	1
Zinc Phosphide	U249	Toxic	1
Benomyl	U271	Toxic	1
Bendiocarb	U278	Toxic	1
Carbaryl	U279	Toxic	1
Barban	U280	Toxic	1
Bendiocarb phenol	U364	Toxic	1
Carbofuran phenol	U367	Toxic	1
Carbendazim	U372	Toxic	1
Propham	U373	Toxic	1
Prosulfocarb	U387	Toxic	1
Triallate	U389	Toxic	1
A2213	U394	Toxic	1
Diethylene glycol, dicarbamate	U395	Toxic	1
Triethylamine	U404	Toxic	1
2,4,6-Tribromophenol	U408	Toxic	1
Thiophanate-methyl	U409	Toxic	1
Thiodicarb	U410	Toxic	1
Propoxur	U411	Toxic	1

(continued)

1. The first part of the document is a list of the names of the persons who were present at the meeting. The names are listed in alphabetical order.

2.

3. The second part of the document is a list of the names of the persons who were present at the meeting. The names are listed in alphabetical order.

SECTION J

SOLID WASTE MANAGEMENT UNITS

J-1 Introduction

This section addresses the information on the WPAFB solid waste management units (SWMUs). The initial phase of the RCRA corrective action program [the RCRA Facility Assessment (RFA)] was prepared in September 1988. The objective of the RFA was to identify all SWMUs operated at WPAFB, and to evaluate all available information pertaining to each SWMU, and to assess the possibility of releases of hazardous waste or constituents from each SWMU.

J-2 SWMU Descriptions

The RFA (September 1988) identified a comprehensive list of potential SWMUs. Since that time a number of the potential SWMUs (e.g., underground storage tanks) have been removed or closed under other existing regulations. On May 24, 1991, WPAFB entered in an agreement with Region 5 to integrate the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) response obligations and RCRA corrective action obligations. A copy of the relevant portion of this agreement is included as Appendix J-1. Appendix J-2 presents a current list of potential SWMUs at WPAFB.

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APPENDIX J-1
CONSENT AGREEMENT

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21. STATUTORY COMPLIANCE / RCRA-CERCLA INTEGRATION

21.1 - The Parties intend to integrate the Air Force's CERCLA response obligations and RCRA corrective action obligations which relate to the release(s) of hazardous substances, hazardous wastes, pollutants or contaminants covered by this Agreement into this comprehensive Agreement. Therefore, the Parties intend that activities covered by this Agreement will achieve compliance with CERCLA, 42 U.S.C. §9601 et seq.; satisfy the corrective action requirements of Sections 3004(u) and (v) of RCRA, 42 U.S.C. §6924(u) and (v), for a RCRA permit, and RCRA Section 3008(h), 42 U.S.C. §6928(h); for interim status facilities; and meet or exceed all applicable or relevant and appropriate Federal and State laws and regulations, to the extent required by Section 121 of CERCLA, 42 U.S.C. §9621.

21.2 - Based upon the foregoing, the Parties intend that any remedial action selected, implemented and completed under this Agreement will be protective of human health and the environment such that remediation of releases covered by this Agreement shall obviate the need for further corrective action under RCRA (i.e., no further corrective action shall be required). The Parties agree that with respect to releases of hazardous waste covered by this Agreement, RCRA shall be considered an applicable or relevant and appropriate requirement pursuant to Section 121 of CERCLA, 42 U.S.C. §9621.

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APPENDIX J-2
CURRENT POTENTIAL SWMUs

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OIL SEPARATOR DATA

SEPARATOR	LOCATION	SIZE	TYPE	REMARKS
3-154A	POL Tank Farm Area C A	1,800	San	
3-154B	POL Tank Farm Area C A	15,000	Storm	
3-154C	POL Tank Farm Area C A	1,000	Sanitary	Removed
3-West Ramp	Taxiway, West Ramp Area C	6 ea., 2,400- 14,400	Storm	Continuously Running
3-4044	Bldg 4044 Area C A	1,200	San	
3-4026	Bldg 4026 Area C A	2,700	San	
3-4022	Bldg 4022 Area C A	2,700	San	
3-4033	Bldg 4033 Area C A	1,000	Storm	Removed
3-4020A	Bldg 4020 Area C A	500	San	Has Oil Storage Tank
3-4020B	Bldg 4020 Area C A	150	San	Has Oil Storage Tank
3-106	Bldg 106 Area C A	1,600	San	Abandoned
2-71BA	Bldg 71B Area B	6,000	San	No Longer In Service
2-71BB	Bldg 71 B Area B	6,000	San	No Longer In Service
3-13A	Bldg 13 Area C A	1,100	San	Contains Sewage
3-13B	Bldg 13 Area C A	1,000	San	Grit from Vehicle Wash
2-18C	Bldg 18C Area B	2,000	San	Has Oil Storage Tank
2-18D	Bldg 18D-G Area B	6,000	San	Has Oil Storage Tank
1-879	Bldg 879 Area A	1,200	San	
3-109	Bldg 109 Area C A	900	San	
3-60	Bldg 60 Area C A	2,500	San	

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SEPARATOR	LOCATION	SIZE	TYPE	REMARKS
2-38	Bldg 38 Area B	1,200	San	
2-448	Bldg 448 Area B	900	San	Abandoned
2-464	Bldg 464 Area B	500	San	Removed
2-B & F	Bldg 21 Area B	3,600	Storm	Has Oil Storage
3-119	Bldg 119 Area C A	500	San	Removed
3-4024	Bldg 4024 Area C A	4,500	San	
3-169	Bldg 169 Area C A	Unknown		Abandoned
3-1244D	Bldg 1244 Area C A	1,000	San	Has Oil Storage Tank
2-94A	Bldg 94 Area B	600	San	
2-94C	Gun Range Area B	1,500	Storm	No Longer In Service
2-94B	Gun Range Area B	15,000	Storm	
2-94D	Gun Range Area B	1,500	Storm	No Longer In Service
No Number	Fire Training Fac Area A	200	Storm	Removed
2-490A	Bldg 490 Area B	60	San	Has Oil Storage Tank
2-490B	Bldg 490 Area B	1,800	San	Has Bentonite Sealer and Oil Storage Tank
3-901	Bldg 901 Area C A	600	San	

3-55	Bldg 55 Area C A	5,500	San	Has Oil Storage Tank
2-92	Bldg 92 Area B	6,000	Storm	Has Oil Storage Tank
3-143	Bldg 143 Area C A	800	San	
2-Storm	5th & C St. Area B	6 ea. 2,400- 14,400	Storm	Removed
3-151	Bldg 151 Area C A	1,000	San	Has Oil Storage Tank

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SEPARATOR	LOCATION	SIZE	TYPE	REMARKS
3-144	Bldg 144 Area C A	750	San	No Longer In Service
3-93	Bldg 93 Area C A	1,000	San	
3-4021	Bldg 4021 Area C A	1,000	San	
3-148	Bldg 148 Area C A	1,000	San	
3-268	Bldg 268 Area C A	1,000	San	No Longer In Service
2-201	Bldg 201 Area B	2,000	Sanitary	Has Oil Storage Tank
3-256	Adjacent to Bldg 256 Area C A	2,000	Sanitary	
1-880	Bldg 880 Area A	550	Storm	Installed After 2001
3-4015	Bldg 4015 Area C A	4,500	San	Installed After 2001
3-4016	Bldg 4016 Area C A	5,000	San	Installed After 2001
3-1253	Bldg 1253 Area C A	285	San	Installed After 2001
2-86G	Bldg 86G Area B	30,000	Storm	Installed After 2001

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SETTLING BASIN DATA

LOCATION	SIZE	SLUDGE MATERIAL	TYPE	REMARKS
Bldg 1084 Area C A Basin 3-1084	50	Ceramic dust	San	No Longer In Service
Bldg 770 Area B Basin 2-770	170,000	Coal Dust Plus Soot	Storm	Continuously Running
Bldg 1240 Area C A Basin 3-1240	200,000	Coal, Ash Dust Plus Soot	Storm	
Bldg 38 Area B Basin 2-38	750	Grit from Vehicle Wash Rack	San	
Bldg 60 Area C A Basin 3-60	150	Grit from Vehicle Wash Rack	San	
Bldg 876 Area A Basin 3-876	200	Grit from Vehicle Wash Rack	San	No Longer In Service
Bldg 876 Manhole on Area A Sewer Basin 3-876B	75	Grit from Vehicle Wash Rack from Bldg 879	San	No Longer In Service
Bldg 879 Area C A Basin 3-879	75	Grit from Vehicle Wash Rack	San	Removed
Bldg 91 Area C A Basin 3-91	150	Grit and Sludge	San	
Bldg 93 Area C A Basin 3-93	150	Grit and Sludge	San	
Bldg 20A Area B Basin 2-20A	3,000		No Discharge	
Bldg 152 Area C A Basin 3-152	500	Grit From Vehicle Wash Rack	San	
Bldg 1244 Area C A Basin 3-1244A	50	Grit From Vehicle Wash Rack	San	

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LOCATION	SIZE	SLUDGE MATERIAL	TYPE	REMARKS
Bldg 1244 Area C A Basin 3-1244B	50	Grit From Vehicle Wash Rack	San	

ELEMENTARY NEUTRALIZATION UNITS

LOCATION	SIZE	REMARKS
Bldg 20651	550	In Use
Bldg 20652	550	In Use
Bldg 20654	550	In Use
Bldg 20655	550	In Use
Bldg 20450	350	In Use
Bldg 20620	5	In Use
Bldg 20840	450	Installed
Bldg 20056	7,000	Out of Service

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STORAGE TANKS LIST 1

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TANK NO.	SITE NO.	CAPACITY	CONST MATL	USED BY	PRESENT CONTENTS	REMOVED?
1	30260	275	STEEL	88 ABW/CE	REMOVED	Y
2	34024	275	STEEL	445 AW/MA	EMPTY	Y
3	34024	275	STEEL	445 AW/MA	EMPTY	Y
4	34024	275	STEEL	445 AW/MA	EMPTY	Y
5	34024	50	STEEL	88 ABW/CE	DIESEL	Y
6	34024	650	STEEL	88 ABW/CE	REMOVED	Y
7	34024	1500	STEEL	88 ABW/CE	AQUEOUS FILM FORMING FOAM	N
8	34051	2000	2W STEEL	88 MSG/LG	LIQ. OXYGEN	Y
9	34051	5000	2W STEEL	88 MSG/LG	LIQ. OXYGEN	Y
10	34047	2000	2W STEEL	88 MSG/LG	LIQ. NITROGEN	Y
11	34047	2000	2W STEEL	88 MSG/LG	LIQ. NITROGEN	Y
12	34053	275	STEEL	88 SFS	REMOVED	Y
13	10876	275	STEEL	88 ABW/CE	DIESEL	Y
14	10878	300	STEEL	88 FSS/SV	REMOVED	Y
15	10878	275	STEEL	88 FSS/SV	REMOVED	Y
16	10298	1000	STEEL	88 ABW/CE	REMOVED	Y
17	20057	275	STEEL	AFRL/RB	DIESEL	Y
18	30013	550	STEEL	88 MSG/LG	REMOVED	Y
19	30013	880	STEEL	445 TW/MA	REMOVED	Y
20	30013	750	STEEL	445 TW/MA	REMOVED	Y
21	30013	650	STEEL	445 TW/MA	REMOVED	Y
22	30013	55	STEEL	445 TW/MA	REMOVED	Y
24	30013	150	STEEL	445 TW/MA	REMOVED	Y
25	30013	120	STEEL	445 TW/MA	REMOVED	Y
26	30013	660	STEEL	445 TW/MA	REMOVED	Y
27	30013	30	STEEL	445 AW/MS/LG	NON-HAZ FLOURESC	Y
28	30013	30	STEEL	445 AW/MS/LG	DYE REMOVER	Y
29	30013	30	STEEL	445 AW/MS/LG	CHROMATE SOLUTION	Y
30	30013	30	HDPE	445 AW/MS/LG	PHOTOGRAPHIC FIXER	Y
31	30013	30	HDPE	445 AW/MS/LG	PHOTOGRAPHIC DEV	Y
32	30013	150	STEEL	445 AW/MS/LG	PD-680 SOLVENT	Y
33	30142	1000	STEEL	88 ABW/CE	EMPTY	N
34	30149	350	STEEL	88 ABW/CE	DIESEL	N
35	30110	100	STEEL	88 ABW/CE	DIESEL	N
36	30851	500	STEEL	88 ABW/CE	DIESEL	Y
37	30170	1000	2W STEEL	88 ABW/CE	DIESEL	Y
38	30170	100	STEEL	88 ABW/CE	DIESEL	N
39	30168	25	STEEL	88 ABW/CE	DIESEL	N
40	10840	650	STEEL	88 ABW/CE	DIESEL	N
41	10840	650	STEEL	88 ABW/CE	DIESEL	N

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42	10830	350	STEEL	88 ABW/CE	DIESEL	N
43	10830	350	STEEL	88 ABW/CE	DIESEL	N
44	10830	350	STEEL	88 ABW/CE	DIESEL	Y
45	10277	275	STEEL	88 ABW/CE	DIESEL	Y
46	10266	200	STEEL	88 ABW/CE	DIESEL	N
47	10271	200	STEEL	88 ABW/CE	DIESEL	N
48	10271	200	STEEL	88 ABW/CE	DIESEL	N
49	11456	273	STEEL	88 ABW/CE	REMOVED	Y
50	10856	30	STEEL	88 ABW/CE	DIESEL	Y
51	30117	200	STEEL	88 ABW/CE	DIESEL	N
52	30964	300	STEEL	88 ABW/CE	REMOVED	Y
53	30018	50	STEEL	88 ABW/CE	DIESEL	N
54	30971	275	STEEL	88 ABW/CE	REMOVED	Y
55	34010	50	STEEL	88 ABW/CE	DIESEL	N
56	34041	100	STEEL	88 ABW/CE	DIESEL	Y
57	34041	500	STEEL	88 OSS/OS	PROPANE	Y
58	34052	100	STEEL	88 ABW/CE	DIESEL	N
59	30962	50	STEEL	88 ABW/CE	DIESEL	N
60	30967	275	STEEL	88 ABW/CE	REMOVED	Y
61	31240	200	STEEL	88 ABW/CE	REMOVED	Y
62	31240	200	STEEL	88 ABW/CE	REMOVED	Y
63	30154	275	STEEL	88 ABW/CE	REMOVED	Y
64	31240	160	STEEL	88 ABW/CE	HF 165-BIODEGRADA	Y
65	31241	230	STEEL	88 ABW/CE	ANTIFREEZE	N
69	31244	275	STEEL	88 ABW/CE	REMOVED	Y
70	31244	550	STEEL	88 ABW/CE	REMOVED	Y
			FIBER			
			REINFORCED			
71	31229	1000	PLASTIC	88 ABW/CE	BRINE	N
72	10894	275	STEEL	88 ABW/CE	REMOVED	Y
73	10894	275	STEEL	88 ABW/CE	REMOVED	Y
74	10894	300	STEEL	GOLF COURSE	REGULAR GASOLINE	Y
75	10894	300	STEEL	TWIN BASE GOLF	DIESEL	Y
76	30199	275	STEEL	88 ABW/CE	DIESEL	Y
87	30151	250	STEEL	88 MSG/LG	REMOVED	Y
88	30153	335	ALUMINUM	88 FSS/SV	REMOVED	Y
89	30017	300	STEEL	88 ABW/CE	REMOVED	Y
90	20022B	1000	STEEL	AFRL/RZ	PROPANE	N
91	30060	500	STEEL	88 MSG/LG	REMOVED	Y
92	20770	3000	STEEL	STEAM PLANT	SULFURIC ACID	Y
93	10877	270	STEEL	CE PAVE/GROUNDS	REMOVED	Y

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STORAGE TANKS LIST 1

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94	30093	500	STEEL	88 ABW/CE	EMPTY	Y
104	30023	275	STEEL	88 ABW/CE	UNK	Y
105	30154	275	STEEL	88 MSG/LG	USED FUEL	Y
106	34028	600	STEEL	MAINT. DOCK	REMOVED	Y
107	34030	90	STEEL	88 MSG/LG	REMOVED	Y
108	34030	200	STEEL	88 MSG/LG	REMOVED	Y
111	30046	275	STEEL	88 ABW/CE	REMOVED	Y
113	31216	1050	STEEL	88 ABW/CE	REMOVED	Y
114	30892	275	STEEL	88 ABW/CE	REMOVED	Y
115	30891	275	STEEL	88 ABW/CE	REMOVED	Y
116	34012	275	STEEL	HEATING PLANT	REMOVED	Y
117	34012	5000	STEEL	88 ABW/CE	EMPTY	N
118	34012	5000	STEEL	88 ABW/CE	EMPTY	N
119	11457	275	STEEL	AT&T	EMPTY	Y
120	30898	275	STEEL	88 ABW/CE	REMOVED	Y
121	30019	750	HDPE	88 ABW/CE	MURIATIC ACID/SODA (MIX)	N
122	30019	750	HDPE	88 ABW/CE	MURIATIC ACID	N
123	20652	970	HDPE	AFRL/RX	NONE	Y
124	20094	4000	STAINLESS STEEL	780 TS/OL-AC	JP-4	Y
125	10840	1573	STEEL	88 ABW/CE	EMPTY	Y
126	10830	3125	STEEL	MED CENTER	LIQ. OXYGEN	N
127	10830	1500	STEEL	MED CENTER	LIQ. OXYGEN	N
128	10830	25	PLASTIC	MED CENTER	RADIOGRAPHIC FIXER	Y
129	10830	25	PLASTIC	MED CENTER	RADIOGRAPHIC FIXER	Y
130	10830	25	PLASTIC	MED CENTER	RADIOGRAPHIC FIXER	Y
131	10830	25	PLASTIC	MED CENTER	RADIOGRAPHIC FIXER	Y
132	10830	25	PLASTIC	MED CENTER	RADIOGRAPHIC FIXER	Y
133	10830	25	PLASTIC	MED CENTER	RADIOGRAPHIC FIXER	Y
134	10830	25	PLASTIC	MED CENTER	RADIOGRAPHIC FIXER	Y
135	10830	25	PLASTIC	MED CENTER	RADIOGRAPHIC FIXER	Y
136	10830	25	PLASTIC	MED CENTER	RADIOGRAPHIC FIXER	N
137	10830	25	PLASTIC	MED CENTER	RADIOGRAPHIC FIXER	N
138	10830	25	PLASTIC	MED CENTER	RADIOGRAPHIC FIXER	N
139	10830	25	PLASTIC	MED CENTER	RADIOGRAPHIC FIXER	N
140	10813	275	STEEL	88 ABW/CE	REMOVED	Y
141	10857	14	2W STEEL	88 ABW/CE	LIQ. CARBON DIOXIDE	N
142	30172	6	2W STEEL	88 ABW/CE	LIQ. CARBON DIOXIDE	N
143	20450	300	STEEL	AFRL/RZ	LIQ. NITROGEN	Y
144	20490	11000	STEEL	AFRL/RZ	LIQ. NITROGEN	N
145	20071A	10500	STEEL	AFRL/RX	LIQ. NITROGEN	N
146	20042	2200	HDPE	88 ABW/CE	REMOVED	Y

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147	30017	160	STEEL	88 ABW/CE	DIESEL	Y
150	20042	2200	HDPE	88 ABW/CE	REMOVED	Y
151	20042	6	STEEL	88 ABW/CE	CARBON DIOXIDE	Y
152	20042	5600	HDPE	88 ABW/CE	REMOVED	Y
153	20071A	5000	STEEL	AFRL/RZ	LIQ. CARBON DIOXIDE	Y
154	20071A	6000	STEEL	AFRL/RZ	NITROGEN	N
155	20071B	7500	STEEL	AFRL/RZ	HELIUM	N
156	20071A	2500	STEEL	AFRL/RZ	LIQ. CARBON DIOXIDE	N
157	20071B	2500	STEEL	AFRL/RZ	LIQ. CARBON DIOXIDE	N
158	30060	550	STEEL	88 MSG/LG	OIL (NEW)	Y
159	20038	165	STEEL	88 MSG/LG	USED OIL	N
160	20074	50	STEEL	88 ABW/CE	DIESEL	Y
161	20015	100	STEEL	88 ABW/CE	DIESEL	N
162	20014	25	STEEL	88 ABW/CE	EMPTY	Y
163	20011A	55	STEEL	88 ABW/CE	DIESEL	Y
164	20891	150	STEEL	88 ABW/CE	DIESEL	N
165	20079F	50	STEEL	88 ABW/CE	DIESEL	Y
166	20349	50	STEEL	88 ABW/CE	REMOVED	Y
167	20188	30	STEEL	88 ABW/CE	EMPTY	Y
168	20042	5000	STEEL	88 ABW/CE	JP-4	Y
169	20085A	1000	STEEL	88 ABW/CE	EMPTY	Y
170	20085A	300	STEEL	88 ABW/CE	EMPTY	Y
171	20620	20	STEEL	88 ABW/CE	DIESEL	N
172	20620	75	STEEL	88 ABW/CE	DIESEL	Y
173	20642	100	STEEL	88 ABW/CE	DIESEL	N
174	20838	275	STEEL	AFRL/RH	DIESEL	Y
182	34090	1000	STEEL	88 ABW/CE	REMOVED	Y
183	34090	1000	STEEL	88 ABW/CE	REMOVED	Y
184	34090	1000	STEEL	88 ABW/CE	REMOVED	Y
185	20025	125000	STEEL	AFRL/RB	EMPTY	Y
186	20025	125000	STEEL	AFRL/RB	EMPTY	Y
187	20025	125000	STEEL	AFRL/RB	EMPTY	Y
188	20025	125000	STEEL	AFRL/RB	EMPTY	Y
189	10298	1000	STEEL	88 ABW/CE	REMOVED	Y
190	10262	1500	HDPE	88 ABW/CE	EMPTY	N
193	5841	275	STEEL	88 ABW/CE	DIESEL	Y
194	20094	10000	STEEL	780 TS/OL-AC	USED FUEL	Y
195	20094	4000	STEEL	780 TS/OL-AC	JP-8	Y
196	20094	4000	STEEL	780 TS/OL-AC	JP-8	Y
197	20094	1000	STEEL	780 TS/OL-AC	REMOVED	Y
198	20094	1000	STEEL	780 TS/OL-AC	JP-8	N

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STORAGE TANKS LIST 1

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199	20094	1000	STEEL	780 TS/OL-AC	JP-8	N
200	20740	300	STEEL	88 ABW/CE	EMPTY	Y
201	20620	5000	STEEL	AFRL/RX	LIQ. NITROGEN	N
202	20620	5000	STEEL	AFRL/RX	LIQ. NITROGEN	N
203	20620	1500	STEEL	AFRL/RX	LIQ. NITROGEN	N
205	20018	990	STEEL	AFRL/RZ	PROPANE	N
206	30886	275	STEEL	88 ABW/CE	REMOVED	Y
			FIBER			
			REINFORCED			
207	10829	4500	PLASTIC	NAIC/MS	SALT WATER	N
208	34028	1200	STEEL	88 ABW/CE	AQUEOUS FILM FORMING FOAM	Y
209	34026	1200	STEEL	88 ABW/CE	AQUEOUS FILM FORMING FOAM	N
210	34022	1200	STEEL	88 ABW/CE	AQUEOUS FILM FORMING FOAM	Y
211	34020	1200	STEEL	88 ABW/CE	AQUEOUS FILM FORMING FOAM	N
212	30152	1200	STEEL	88 ABW/CE	AQUEOUS FILM FORMING FOAM	N
213	30091	1000	STEEL	88 ABW/CE	AQUEOUS FILM FORMING FOAM	N
214	20085A	6	2W STEEL	88 ABW/CE	LIQ. CARBON DIOXIDE	N
215	20021C	475	STEEL	AFRL/RZ	EMPTY	Y
216	20021	275	STEEL	AFRL/RZ	USED OIL	Y
217	10281	30	HDPE	DAPSDO	DEVELOPER	Y
218	10281	30	HDPE	DAPSDO	FIXER	Y
219	10281	50	HDPE	DAPSDO	FIXER	Y
220	10281	30	HDPE	DAPSDO	DEVELOPER	Y
221	20652	6000	STEEL	AFRL/RX	LIQ. NITROGEN	N
222	20651	1500	STEEL	AFRL/RX	LIQ. NITROGEN	N
223	20654	6000	STEEL	AFRL/RX	LIQ. NITROGEN	N
224	20653	1000	STEEL	AFRL/RX	LIQ. NITROGEN	N
225	20655	1500	STEEL	AFRL/RX	LIQ. NITROGEN	N
230	20094	1000	STEEL	780 TS/OL-AC	EMPTY	N
231	20094	17	STEEL	780 TS/OL-AC	LIQ. CARBON DIOXIDE	N
232	20094	24	STEEL	780 TS/OL-AC	LIQ. CARBON DIOXIDE	N
233	30881	5000	STEEL	88 ABW/CE	EMPTY	Y
234	20618	615	STEEL	711 HPW	CHLORINE	Y
235	20071B	4200	STEEL	AFRL/RZ	LIQ. CARBON DIOXIDE	Y
236	20018	900	STEEL	AFRL/RZ	EMPTY	Y
237	20018	1100	STEEL	AFRL/RZ	EMPTY	Y
238	20651	970	STEEL	AFRL/RX	LEFT OVER SLUDGE F	Y
239	20651	970	STEEL	AFRL/RX	NONE	Y
240	20652	970	STEEL	AFRL/RX	CAUSTIC SODA	Y
241	30300	5500	PLASTIC	88 ABW/CE	CALCIUM CHLORIDE	N
242	10866	250	STEEL	88 MSG/LG	EMPTY	Y

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243	10262	1500	STEEL	88 ABW/CE	EMPTY	Y
244	20682	100	NALGENE	ORGANIZATION NO LONGER ON BASE	CB-7R CLEANING BAT	Y
245	20682	100	NALGENE	ORGANIZATION NO LONGER ON BASE	D-96R DEVELOPER	Y
246	20682	100	PLASTIC	ORGANIZATION NO LONGER ON BASE	F-5 FIXER	Y
247	20682	100	NALGENE	ORGANIZATION NO LONGER ON BASE	LCP-R DEVELOPER	Y
248	20682	100	NALGENE	ORGANIZATION NO LONGER ON BASE	D-96R DEVELOPER	Y
249	30154	420000	STEEL	88 MSG/LG	JP-8	N
250	30154	420000	STEEL	88 MSG/LG	JP-8	N
251	30154	420000	STEEL	88 MSG/LG	JP-8	N
252	30154	420000	STEEL	88 MSG/LG	JP-8	N
253	30154	420000	STEEL	88 MSG/LG	AVGAS	N
254	30154	420000	STEEL	88 MSG/LG	JP-8	N
255	30154	420000	STEEL	88 MSG/LG	JP-8	N
256	30154	420000	STEEL	88 MSG/LG	JP-8	N
257	30154	420000	STEEL	88 MSG/LG	JP-8	N
258	30154	420000	STEEL	88 MSG/LG	JP-8	N
259	20453	30	RESIN	88 ABW/CE	SODIUM CHLORIDE	Y
260	20770	3000	STEEL	STEAM PLANT	SULFURIC ACID	Y
261	20770	1500	STEEL	STEAM PLANT	REMOVED	Y
262	20770	300	STEEL	STEAM PLANT	REMOVED	Y
263	20770	275	STEEL	STEAM PLANT	EMPTY	Y
264	20770	600	STEEL	STEAM PLANT	REMOVED	Y
265	20450	750	2W STEEL	AFRL/RZ	LIQ. NITROGEN	Y
			FIBER			
			REINFORCED			
266	20450	22	PLASTIC	AFRL/RZ	SALT BRINE	N
267	20450	1700	2W STEEL	AFRL/RZ	LIQ. NITROGEN	Y
268	20450	500	2W STEEL	AFRL/RZ	LIQ. NITROGEN	N
269	20060	2000	STEEL	AFRL/RB	HYDRAULIC OIL	N
270	20060	2000	STEEL	AFRL/RB	HYDRAULIC OIL	N
271	30154	840000	STEEL	88 MSG/LG	JP-8	N
272	30154	210000	STEEL	88 MSG/LG	DIESEL	N
273	20068	10000	2W STEEL	AFRL/RB	LIQ. NITROGEN	N
274	20068	10000	2W STEEL	AFRL/RB	LIQ. NITROGEN	N
275	20068	275	STEEL	88 ABW/CE	DIESEL	Y
276	20449	1500	2W STEEL	AFRL/RB	LIQ. NITROGEN	N

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277	20079B	10000	STEEL	NHRC	EMPTY	Y
278	30172	500	STEEL	88 ABW/CE	DIESEL	N
279	20065	1500	2W STEEL	AFRL/RB	LIQ. NITROGEN	N
280	20065	10000	2W STEEL	AFRL/RB	LIQ. NITROGEN	Y
281	20065	1600	STEEL	AFRL/RB	HELIUM	Y
282	20065	1600	STEEL	AFRL/RB	HELIUM	Y
285	20065	250	STEEL	AFRL/RB	JP-8	Y
289	20079	10	STEEL	NHRC	EMPTY	N
290	20156	275	STEEL	88 ABW/CE	REMOVED	Y
291	30208	1000	STEEL	88 MSG/LG	REMOVED	Y
292	20071B	1000	STEEL	AFRL/RZ	DIESEL	N
293	20156	450	STEEL	88 ABW/CE	GASOLINE	Y
294	30268	1100	STEEL	88 ABW/CE	AQUEOUS FILM FORMING FOAM	N
295	30145	600	STEEL	445 TW/OM	EMPTY	Y
296	30145	750	STEEL	445 TW/OM	EMPTY	Y
297	30144	2500	STEEL	ORGANIZATION NO LONGER ON BASE	JP-4	Y
298	20824	400	STEEL	711 HPW	HYDRAULIC OIL	N
299	20824	300	STEEL	711 HPW	HYDRAULIC OIL	N
307	30256	650	STEEL	445 TW/MA	JP-8	Y
308	30256	4	STEEL	445 TW/MA	EMPTY	Y
309	20004D	100	STEEL	NMUSAF	PD-680 SOLVENT	N
310	30154	15000	STEEL	88 MSG/LG	MOGAS	N
311	20005	34900	STEEL	445 TW/AM	LIQ. NITROGEN	Y
312	30170	3000	STEEL	88 ABW/CE	SULFURIC ACID	Y
313	20743	300	STEEL	DRMO	HEATING OIL	Y
314	20741	275	STEEL	DRMO	DIESEL	Y
315	20741	275	STEEL	DRMO	REMOVED	Y
316	20025D	275	STEEL	AFRL/RB	USED OIL	N
336	20618	2300	STEEL	711 HPW	EMPTY	Y
353	20004E	250	ALUMINUM	NMUSAF	USED OIL	Y
354	20490	1000	STEEL	AFRL/RZ	PROPANE	N
380	10866	250	STEEL	88 MSG/LG	EMPTY	Y
381	20640	360	PLASTIC	88 ABW/CE	SALT BRINE	Y
382	20684	160	PLASTIC	88 ABW/CE	BRINE	Y
383	20684	160	PLASTIC	88 ABW/CE	BRINE	Y
384	20127	300	PLASTIC	88 ABW/CE	SALT BRINE	Y
385	20011	300	PLASTIC	88 ABW/CE	SALT BRINE	Y
386	20485	160	PLASTIC	88 ABW/CE	SALT BRINE	Y
387	20020	250	PLASTIC	88 ABW/CE	SALT BRINE	Y
388	20240	195	PLASTIC	88 ABW/CE	LIQ. CHLORINE	N

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389	20240	195	PLASTIC	88 ABW/CE	LIQ. CHLORINE	N
390	20240	50	PLASTIC	88 ABW/CE	LIQ. CHLORINE	N
391	20240	50	PLASTIC	88 ABW/CE	LIQ. CHLORINE	N
392	20240	50	PLASTIC	88 ABW/CE	LIQ. CHLORINE	N
393	20453	50	PLASTIC	88 ABW/CE	FLUORIDE	Y
394	20016	120	PLASTIC	88 ABW/CE	SALT BRINE	N
395	20740	5400	PLASTIC	88 ABW/CE	CALCIUM CHLORIDE	N
396	20745	275	STEEL	88 ABW/CE	REMOVED	Y
397	20745	275	STEEL	88 ABW/CE	REMOVED	Y
398	20015	120	HDPE	88 ABW/CE	SALT BRINE	N
399	20014	180	HDPE	88 ABW/CE	SALT BRINE	N
413	20072	850	STAINLESS STEEL	445 TW/AM	REMOVED	Y
414	20072	550	STEEL	445 TW/AM	REMOVED	Y
415	20005	250	2W STEEL	445 TW/AM	EMPTY	Y
416	20005	540	STEEL	NMUSAF	REMOVED	Y
417	20005	540	STEEL	NMUSAF	REMOVED	Y
418	20005	330	STEEL	445 TW/AM	EMPTY	Y
419	20005	800	STEEL	NMUSAF	EMPTY	Y
420	20005	540	STEEL	NMUSAF	REMOVED	Y
421	20005	450	STEEL	NMUSAF	REMOVED	Y
422	20005	450	STEEL	445 TW/AM	EMPTY	Y
423	20005	450	STEEL	NMUSAF	EMPTY	Y
424	20005	450	STEEL	445 TW/AM	EMPTY	Y
425	20005	330	STEEL	445 TW/AM	EMPTY	Y
426	20005	330	STEEL	445 TW/AM	EMPTY	Y
427	20005	330	STEEL	445 TW/AM	EMPTY	Y
428	20005	330	STEEL	445 TW/AM	EMPTY	Y
429	20005	330	STAINLESS STEEL	445 TW/AM	EMPTY	Y
430	20005	330	STEEL	445 TW/AM	EMPTY	Y
431	10849	55	HDPE	88 FSS/SV	LIQ. CHLORINE	N
432	10849	350	HDPE	88 FSS/SV	LIQ. CHLORINE	N
433	10829	500	STEEL/CONCRETE	88 ABW/CE	FUEL OIL	N
434	10849	195	HDPE	88 FSS/SV	LIQ. CHLORINE	N
435	10849	195	HDPE	88 FSS/SV	LIQ. CHLORINE	N
436	10888	130	HDPE	88 FSS/SV	LIQ. CHLORINE	N
437	10888	130	HDPE	88 FSS/SV	LIQ. CHLORINE	N
438	10888	130	HDPE	88 FSS/SV	LIQ. CHLORINE	N
439	20025	4000	STEEL	AFRL/RB	EMPTY	Y
452	20329	275	STEEL	88 ABW/CE	DIESEL	Y
453	30059	500	STEEL	731 ORD	DIESEL	Y

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467	20018B	1500	STEEL	AFRL/RZ	LIQ. NITROGEN	N
468	20018E	2500	2W STEEL	AFRL/RZ	LIQ. OXYGEN	N
469	20018G	1700	STEEL	AFRL/RZ	LIQ. CARBON DIOXIDE	N
471	20490	275	STEEL	AFRL/RZ	DIESEL	N
472	20018	500	HDPE	AFRL/RZ	REMOVED	Y
473	20031	150	STEEL	46 TG/OL	SAFETY KLEEN 105	N
474	20031	50	STEEL	46 TG/OL	SOLVENT	Y
477	20020A	4200	CONCRETE	AFRL/RZ	USED OIL	N
479	20023	1000	STEEL	AFRL/RB	FREON R-11	Y
481	20641	80	STAINLESS STEEL	AFRL/RZ	LIQ. NITROGEN	N
482	20641	80	STAINLESS STEEL	AFRL/RZ	LIQ. NITROGEN	N
483	20641	80	STAINLESS STEEL	AFRL/RZ	LIQ. NITROGEN	N
484	20641	80	STAINLESS STEEL	AFRL/RZ	LIQ. NITROGEN	N
485	20641	80	STAINLESS STEEL	AFRL/RZ	LIQ. NITROGEN	N
486	20071D	1000	HDPE	AFRL/RZ	EMPTY	Y
487	20254	3000	STEEL	AFRL/RZ	LIQ. NITROGEN	N
488	20020	25	HDPE	88 CG/SCCV	STABILIZER	Y
489	20020	30	HDPE	88 CG/SCCV	BLEACH FIXER	Y
490	20020	30	HDPE	88 CG/SCCV	DEVELOPER	Y
491	20020	25	HDPE	88 CG/SCCV	BLEACHER	Y
492	20020	25	HDPE	88 CG/SCCV	STABILIZER	Y
502	31248	195	HDPE	88 FSS/SV	LIQ. CHLORINE	Y
503	31248	130	HDPE	88 FSS/SV	LIQ. CHLORINE	Y
504	31248	130	HDPE	88 FSS/SV	LIQ. CHLORINE	Y
505	31248	55	HDPE	88 FSS/SV	LIQ. CHLORINE	Y
572	30029	11200	HDPE	88 ABW/CE	POTASSIUM ACETATE	N
573	10293	1500	2W STEEL	88 FSS/SV	USED OIL	N
			2W FIBER			
			REINFORCED			
574	20770	3000	PLASTIC	STEAM PLANT	EMPTY	Y
575	20094	4000	2W STEEL	780 TS/OL-AC	JP-8	N
576	34091	10000	STEEL	88 ABW/CE	LPG	N
577	30060	80	STEEL	88 MSG/LG	NATURAL GAS	Y
578	30060	80	STEEL	88 MSG/LG	NATURAL GAS	Y
579	30060	80	STEEL	88 MSG/LG	NATURAL GAS	Y
			2W			
580	10061	500	STEEL/CONCRETE	88 FSS/SV	UNLEADED	N
581	30884	1000	2W STEEL	88 ABW/CE	DIESEL	Y
582	30154	25000	STEEL	88 MSG/LG	POLYPROPYLENE GLYCOL	N
583	30154	25000	STEEL	88 MSG/LG	POLYPROPYLENE GLYCOL	N

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584	20838	2000	2W STEEL/CONCRETE	711 HPW	DIESEL	N
585	5841	500	2W STEEL/CONCRETE	88 ABW/CE	DIESEL	N
586	355	1000	2W STEEL/CONCRETE	88 ABW/CE	FUEL OIL	Y
587	20085A	275	2W STEEL/CONCRETE	88 ABW/CE	DIESEL	Y
588	30119	500	2W STEEL/CONCRETE	88 FSS/(AERO CLUB)	USED OIL	N
589	10293	500	2W STEEL/CONCRETE	88 FSS/SV	EMPTY	N
590	30093	350	STEEL	88 MSG/LG	USED OIL	Y
591	10878	1000	2W STEEL/CONCRETE	88 FSS/SV	GASOLINE	N
592	10878	1000	2W STEEL/CONCRETE	88 FSS/SV	DIESEL	N
593	30964	500	2W STEEL/CONCRETE	88 ABW/CE	DIESEL	N
594	30967	500	2W STEEL/CONCRETE	88 ABW/CE	DIESEL	N
595	30971	500	2W STEEL/CONCRETE	88 ABW/CE	DIESEL	N
596	10855	1000	2W STEEL/CONCRETE	88 ABW/CE	DIESEL	N
597	20304	10000	2W STEEL/CONCRETE	88 MSG/LG	GASOLINE	N
598	20304	10000	2W STEEL/CONCRETE	88 MSG/LG	DIESEL	N
599	20201	2000	2W STEEL	88 ABW/CE	USED OIL	N
600	10856	2000	2W STEEL/CONCRETE	88 ABW/CE	DIESEL	N
601	31240	8000	2W STEEL/CONCRETE	88 ABW/CE	DIESEL	N
602	11456	500	2W STEEL/CONCRETE	88 ABW/CE	DIESEL	N
603	30143	5000	2W STEEL/CONCRETE	88 ABW/CE	DIESEL	N
604	30894	500	2W STEEL	88 FSS/SV	DIESEL	N
605	30151	500	2W STEEL	88 MSG/LG	USED OIL	N

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606	30153	500	2W STEEL	88 FSS/SV	USED OIL	Y
607	30154	500	2W STEEL	88 ABW/CE	DIESEL	Y
608	30260	500	2W STEEL	88 ABW/CE	DIESEL	N
609	10293	500	2W			
610	10891	500	STEEL/CONCRETE	88 FSS/SV	DIESEL	N
611	10892	500	2W STEEL	88 FSS/SV	DIESEL	N
612	20072	500	2W STEEL	88 ABW/CE	USED OIL	N
613	30013	500	2W STEEL	88 MSG/LG	USED OIL	N
614	30017	500	2W STEEL	88 ABW/CE	USED OIL	N
615	31244	500	2W STEEL	88 FSS/SV	USED OIL	N
616	34024	500	2W STEEL	88 ABW/CE	DIESEL	N
617	34053	500	2W STEEL	88 ABW/CE	DIESEL	N
618	30060	500	2W STEEL	88 MSG/LG	USED OIL	N
619	10879	500	2W STEEL	88 ABW/CE	USED OIL	Y
620	20770	2000	2W			
621	31229	1000	STEEL/CONCRETE	88 ABW/CE	DIESEL	N
622	30256	2000	2W STEEL	88 ABW/CE	FUEL OIL	Y
623	30950	15	STEEL	88 ABW/CE	USED OIL	N
624	30971	25	STEEL	88 ABW/CE	DIESEL	N
625	11456	50	STEEL	88 ABW/CE	DIESEL	N
626	30206	100	STEEL	88 ABW/CE	DIESEL	N
627	10277	100	STEEL	88 ABW/CE	DIESEL	N
628	10856	100	STEEL	88 ABW/CE	DIESEL	Y
629	30143	250	STEEL	88 ABW/CE	DIESEL	N
630	10281	50	STEEL	88 ABW/CE	DIESEL	Y
631	31250	50	STEEL	88 ABW/CE	DIESEL	N
632	11400	100	STEEL	88 ABW/CE	DIESEL	Y
633	20770	75	STEEL	88 ABW/CE	DIESEL	Y
634	30967	25	STEEL	88 ABW/CE	DIESEL	N
635	20770	275	STEEL	88 ABW/CE	FUEL OIL	Y
636	30119	275	STEEL	AAFES	NEW MOTOR OIL	N
637	30119	135	STEEL	AAFES	NEW MOTOR OIL	N
638	20464	275	STEEL	AAFES	NEW MOTOR OIL	N
639	30170	3000	PLASTIC	88 ABW/CE	50% SULFURIC ACID	N
640	10840	1000	PLASTIC	88 ABW/CE	66% SULFURIC ACID	Y
641	10866	350	STEEL	88 FSS/SV	EMPTY	Y
642	10866	200	STEEL	88 FSS/SV	EMPTY	Y
643	10866	100	STEEL	88 FSS/SV	EMPTY	Y

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644	20085A	2000	2W STEEL	88 ABW/CE	DIESEL	N
645	20557	100	STEEL	88 ABW/CE	DIESEL	N
646	30031	650	2W STEEL	88 ABW/CE	DIESEL	N
647	30148	1200	STEEL	88 ABW/CE	AQUEOUS FILM FORMING FOAM	N
648	20348	50	STEEL	88 ABW/CE	DIESEL	Y
649	20588	200	STEEL	88 ABW/CE	DIESEL	Y
650	30017	30	STEEL	88 ABW/CE	DIESEL	Y
651	20656	50	STEEL	88 ABW/CE	DIESEL	Y
652	34012	25	STEEL	88 ABW/CE	DIESEL	Y
653	10291	15	STEEL	88 ABW/CE	DIESEL	N
654	34029	25	STEEL	88 ABW/CE	DIESEL	Y
NEWER TANK INFORMATION						
102	30029	5000	STEEL	88 ABW/CE	EPG	N
109	20020A	2500	STEEL	AFRL/RZ	R&D	N
110	20020A	5000	STEEL	AFRL/RZ	R&D	N
112	20020A	400	STEEL	AFRL/RZ	R&D	N
148	30029	6100	HDPE	88 ABW/CE	DEICING FLUID	N
149	30029	6100	HDPE	88 ABW/CE	DEICING FLUID	N
175	20020A	100	STEEL	AFRL/RZ	R&D	N
176	34024	100	STEEL	88 ABW/CE	FUEL	N
177	20837	1600	STEEL	AFRL/RH	EPG	N
178	20837	2750	STEEL	AFRL/RH	EPG	N
179	20018B	200	STEEL	AFRL/RZ	HYDRAULIC OIL	N
180	20018C	45	STEEL	AFRL/RZ	HYDRAULIC OIL	N
181	20018E	50	STEEL	AFRL/RZ	HYDRAULIC OIL	N
191	20094	1000	STEEL	780 TS	SCRAP FUEL	Y
192	35841	500	STEEL	88 OSS/OS	HEATING	N
204	20020A	115	STEEL	AFRL/RZ	R&D	N
226	10878	275	STEEL	88 FSS/SV	STEAM CLEANING	Y
227	20450	500	STEEL	AFRL/RX	R&D	N
228	20038	65	STEEL	88 MSG/LG	LUBE OIL	N
229	10879	5500	STEEL	88 ABW/CE	DEICING FLUID	N
283	30172	2000	STEEL	88 ABW/CE	EPG	N
284	10879	100	STEEL	88 ABW/CE	DEICING FLUID	N
286	31251	500	FRB	POWER PLANT	WATER	N
287	31240	50	HDPE	POWER PLANT	WATER	N
288	20824	900	STEEL	711 HPW	MODE MACHINE	N
300	31240	120	STEEL	POWER PLANT	WATER	N
301	20071B	10500	STEEL	AFRL/RZ	R&D	N

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302	20020A	25	STEEL	AFRL/RZ	R&D	N
303	20020A	200	STEEL	AFRL/RZ	R&D	N
304	20020A	200	STEEL	AFRL/RZ	R&D	N
306	20020A	250	STEEL	AFRL/RZ	R&D	N
318	20645	700	STEEL	88 ABW/CE	EPG	N
319	20022B	1000	STEEL	AFRL/RX	R&D	N
320	20022B	1000	STEEL	AFRL/RX	R&D	N
321	20837	20	HDPE	711 HPW	HYDRAULIC OIL	N
323	11457	650	2W STEEL	AT&T	DIESEL	N
324	11457	33	STEEL	AT&T	EMPTY	N
325	20045	150	STEEL	AFRL/RB	R&D	N
326	20494	275	STEEL	88 ABW/CE	EPG	N
327	30060	10000	STEEL	88 MSG/LG	FUEL	N
328	20558	300	STEEL	88 ABW/CE	EPG	N
329	20031	300	STEEL	780 TS	R&D	N
330	20659	1000	STEEL	88 ABW/CE	EPG	N
331	34008	140	STEEL	88 ABW/CE	EPG	N
332	34020	220	HDPE	445 MXS/MG	SCRAP TANK	N
332	10856	600	2W STEEL	88 ABW/CE	DIESEL	N
333	30103	2000	STEEL/CONCRETE	88 ABW/CE	EPG	N
334	34032	400	STEEL	88 ABW/CE	EPG	N
335	10849	65	HDPE	88 ABW/CE	MURIATIC ACID	N
337	10888	65	HDPE	88 ABW/CE	MURIATIC ACID	N
338	30019	750	HDPE	88 ABW/CE	ACID	N
403	20619	1000	STEEL	AFRL/RX	FUEL	Y
454	31253	250	STEEL	AAFES	USED OIL	N
571	20304	10000	STEEL	88 MSG/LG	FUEL	N
655	30896	250	STEEL	GOLF COURSE	FUEL	Y
656	30896	300	STEEL	GOLF COURSE	FUEL	Y
657	20094	500	STEEL	780 TS/OL-AC	MOVED FROM 30887/CATM IN MAY 2005; MOVED FROM 10293 TO 20094 IN DEC 2007.	N
658	30887	500	STEEL/CONCRETE	88 ABW/CE	HEATING (FACILITY DEMOLISHED IN MAY 2005, TANK WAS DISPOSED)	Y
659	10858	2000	2W STEEL	88 ABW/CE	DIESEL	N
660	20080	1000	STEEL	88 ABW/CE	EMERGENCY GENERATOR	N
661	34012	550	STEEL/CONCRETE	88 ABW/CE	EMERGENCY GENERATOR	N
662	30851	560	STEEL/CONCRETE	88 ABW/CE	EMERGENCY GENERATOR	N
663	20645	30	STEEL	88 ABW/CE	EMERGENCY GENERATOR	Y
664	20558	500	STEEL	88 ABW/CE	EMERGENCY GENERATOR	N
665	20770	200	STEEL	88 ABW/CE	EMERGENCY GENERATOR	N

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666	30259	200	STEEL	88 ABW/CE	EMERGENCY GENERATOR	N
667	20083	550	STEEL	CALL HENRY CONTRACTOR	FUEL	N
668	10293	4000	STEEL	88 FSS/SV	USED OIL	N
669	10280	35	STEEL	88 ABW/CE	DIESEL	N
670	10851	5	STEEL	88 ABW/CE	DIESEL	N
671	10858	200	STEEL	88 ABW/CE	DIESEL	N
672	20004	250	STEEL	AFRL/NMUSAF	USED OIL / PORTABLE	N
673	20004	500	STEEL	AFRL/NMUSAF	USED OIL	N
674	20004	220	STEEL	AFRL/NMUSAF	USED OIL	N
675	20016	200	STEEL	88 ABW/CE	EMERGENCY GENERATOR	N
676	20481	10	STEEL	88 ABW/CE	EMERGENCY GENERATOR	N
677	20620	300	STEEL	AFRL/RV	EMERGENCY GENERATOR	N
678	20626	150	STEEL	88 ABW/CE	EMERGENCY GENERATOR	N
679	20741	1000	STEEL	DRMO	PROPANE	N
681	20453	40	STEEL	88 ABW/CE	EMERGENCY GENERATOR	N
682	20684	160	PLASTIC	88 ABW/CE	BRINE	Y
684	10271	1000	PLASTIC	88 ABW/CE	SULFURIC ACID	N
685	10828	500	STEEL	88 ABW/CE	PREVIOUSLY SULFURIC ACID; MOVED TO 31241	Y
686	10880	500	2W STEEL	GOLF COURSE	USED FUEL	N
687	34019	100	STEEL	88 ABW/CE	EMERGENCY GENERATOR	N
688	20071B	750	STEEL	46 OG/OG	R & D	Y
689	20004	300	STEEL	412 TW/EW	R & D	N
690	20004	300	STEEL	412 TW/EW	R & D	N
691	30152	600	STEEL	55 MXS/OLA	FUEL	N
692	20094	6000	STEEL	780 TS/OL-AC	SCRAP FUEL	N
693	10840	1500	PLASTIC	88 ABW/CE	WATER TREATMENT	N
694	20025C	175	STEEL	AFRL/RB	EMERGENCY GENERATOR	N
695	30170	1000	STEEL	88 ABW/CE	EMERGENCY GENERATOR	N
696	20770	550	FIBERGLASS	STEAM PLANT	WATER TREATMENT	N
697	10829	25000	STEEL	88 ABW/CE	DIESEL	N
698	30146	2118	STEEL	88 ABW/CE	EMERGENCY GENERATOR	N
699	30001	150	STEEL	88 ABW/CE	EMERGENCY GENERATOR	N
700	20676	2550	STEEL	88 CG/SC	EMERGENCY GENERATOR	N
701	20838	425	STEEL	AFRL/RH	EMERGENCY GENERATOR	N
702	30209	396	STEEL	88 ABW/CE	EMERGENCY GENERATOR	N
703	30154	400	STEEL	88 MSG/LG	USED FUEL	N
704	30154	400	STEEL	88 MSG/LG	USED FUEL	N
705	30896	550	STEEL	GOLF COURSE	EQUIPMENT FUEL	N
706	30896	550	STEEL	GOLF COURSE	EQUIPMENT FUEL	N
707	10829	1000	2W STEEL	88 ABW/CE	DIESEL	N

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708	10829	1000	2W STEEL	88 ABW/CE	DIESEL	N
709	20018	500	STEEL	AFRL/RZ	RESEARCH FUEL TESTING	N
710	30154	400	STEEL	88 MSG/LG	BOWSER	N
711	30154	400	STEEL	88 MSG/LG	BOWSER	N
712	30029	1000	STEEL	88 ABW/CE	SUPPORT FOR GENERATORS	N
713	30029	1000	STEEL	88 ABW/CE	SUPPORT FOR GENERATORS	N
714	30029	1000	STEEL	88 ABW/CE	EMERGENCY GENERATOR	N
715	30029	1000	STEEL	88 ABW/CE	EMERGENCY GENERATOR	N
716	30029	500	STEEL	88 ABW/CE	EMERGENCY GENERATOR	N
717	30029	500	STEEL	88 ABW/CE	EMERGENCY GENERATOR	N
718	34021	80	STEEL	445 MXS/MG	EMERGENCY GENERATOR	N
719	34026	80	STEEL	445 MXS/MG	EMERGENCY GENERATOR	N
720	34026	40	STEEL	445 MXS/MG	PARTS CLEANING	N
721	34024	19	STEEL	445 MXS/MG	PARTS WASHER	N
722	34015	160	STEEL	445 MXS/MG	EMERGENCY GENERATOR	N
723	20094	1000	STEEL	445 MXS/MG	PARTS WASHER	N
725	20029	396	STEEL	780 TS/OL-AC	R & D	N
726	31249	396	STEEL	88 ABW/CE	EMERGENCY GENERATOR	N
727	34026	80	STEEL	88 ABW/CE	EMERGENCY GENERATOR	N
728	20838	200	STEEL	445 MXS/MG	PD-680 SOLVENT	N
729	10849	195	HDPE	711 HPW	EMERGENCY GENERATOR	N
731	30091	220	STEEL	88 ABW/CE	WATER TREATMENT	N
732	30091	220	STEEL	88 MSG/LG	USED FUEL	N
733	34032	200	STEEL	88 MSG/LG	USED FUEL	N
734	34032	200	STEEL	445 MXS/MG	USED FUEL	N
735	34032	200	STEEL	445 MXS/MG	USED FUEL	N
736	34032	400	STEEL	445 MXS/MG	USED FUEL	N
737	34032	200	STEEL	445 MXS/MG	USED FUEL	N
738	20652	451	STEEL	AFRL/RX	EMERGENCY GENERATOR	N
739	20018	35000	STEEL	AFRL/RZ	PROCESS WATER	N
740	20018	35000	STEEL	AFRL/RZ	PROCESS WATER	N
741	20651	250	STEEL	AFSAC	EMERGENCY GENERATOR	Y
742	20031	40	STEEL	46 TG/OL-AC	PARTS WASHER	N
743	30029	500	STEEL	88 ABW/CE	EMERGENCY GENERATOR	Y
744	10880	1000	STEEL	GOLF COURSE	NOT IN SERVICE	N
NN-667	20083	550	STEEL	CALL HENRY CONTRACTOR	FUEL	Y

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Record #	Base	Site #	Site Location	Base ID	Site Owner	Permit #	Type	Category	Description
89	WPAFB	42	30119	270	AAFES	292537	UST	N/A	N/A
82	WPAFB	35	34052	243	88 ABW/CE	292219	UST	N/A	N/A
190	WPAFB	184	20094	196	AFRL/RB		AST	N/A	N/A
188	WPAFB	182	30170	37	88 ABW/CE		AST	N/A	N/A
187	WPAFB	181	30149	34	88 ABW/CE		AST	N/A	N/A
186	WPAFB	180	30142	33	88 ABW/CE		AST	N/A	N/A
92	WPAFB	45	20451	310	AFRL/RV	292351	UST	N/A	N/A
197	WPAFB	191	30154	249	88 MSG/LG		AST	N/A	N/A
90	WPAFB	43	30119	271	AAFES	292537	UST	N/A	N/A
198	WPAFB	192	30154	250	88 MSG/LG		AST	N/A	N/A
88	WPAFB	41	30256	260	LIQUID FUELS	292361	UST	N/A	N/A
87	WPAFB	40	20490	259	AFRL/RZ	293922	UST	N/A	N/A
86	WPAFB	39	20201	254	LIQUID FUELS	292323	UST	N/A	N/A
85	WPAFB	38	20464	251	88 FSS/SV	293949	UST	N/A	N/A
84	WPAFB	37	20464	250	88 FSS/SV	293949	UST	N/A	N/A
48	WPAFB	1	20652	51	AFRL/RX	293933	UST	N/A	N/A
91	WPAFB	44	30119	272	AAFES	292537	UST	N/A	N/A
205	WPAFB	199	30154	257	88 MSG/LG		AST	N/A	N/A
213	WPAFB	207	30154	310	88 MSG/LG		AST	N/A	N/A
212	WPAFB	206	20071B	292	AFRL/RZ		AST	N/A	N/A
211	WPAFB	205	20079B	277	NHRC		AST	N/A	N/A
210	WPAFB	204	30154	272	88 MSG/LG		AST	N/A	N/A
209	WPAFB	203	30154	271	88 MSG/LG		AST	N/A	N/A
208	WPAFB	202	20060	270	AFRL/RB		AST	N/A	N/A
194	WPAFB	188	20094	230	AFRL/RB		AST	N/A	N/A
206	WPAFB	200	30154	258	88 MSG/LG		AST	N/A	N/A
81	WPAFB	34	10298	238	88 ABW/CE	293929	UST	N/A	N/A
204	WPAFB	198	30154	256	88 MSG/LG		AST	N/A	N/A
203	WPAFB	197	30154	255	88 MSG/LG		AST	N/A	N/A
202	WPAFB	196	30154	254	88 MSG/LG		AST	N/A	N/A
201	WPAFB	195	30154	253	88 MSG/LG		AST	N/A	N/A
200	WPAFB	194	30154	252	88 MSG/LG		AST	N/A	N/A
199	WPAFB	193	30154	251	88 MSG/LG		AST	N/A	N/A
207	WPAFB	201	20060	269	AFRL/RB		AST	N/A	N/A
55	WPAFB	8	20018C	148	AFRL/RZ	290527	UST	N/A	N/A
83	WPAFB	36	20464	249	88 FSS/SV	293949	UST	N/A	N/A
62	WPAFB	15	20018D	158	AFRL/RZ	290528	UST	N/A	N/A
61	WPAFB	14	20018D	157	AFRL/RZ	290528	UST	N/A	N/A
60	WPAFB	13	20018D	156	AFRL/RZ	290528	UST	N/A	N/A
59	WPAFB	12	20071B	155	AFRL/RZ	293942	UST	N/A	N/A

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58	WPAFB	11	20092	152	AFRL/RZ	290525	UST	N/A	N/A
64	WPAFB	17	20021	175	AFRL/RZ	290529	UST	N/A	N/A
56	WPAFB	9	30153	150	88 FSS/SV	293909	UST	N/A	N/A
65	WPAFB	18	20021	176	AFRL/RZ	290529	UST	N/A	N/A
54	WPAFB	7	30962	124	88 ABW/CE		UST	N/A	N/A
53	WPAFB	6	30950	114	88 ABW/CE	293902	UST	N/A	N/A
52	WPAFB	5	30018	102	88 ABW/CE	292218	UST	N/A	N/A
51	WPAFB	4	10830	97	MEDICAL CENTER	293928	UST	N/A	N/A
50	WPAFB	3	10830	96	MEDICAL CENTER	293928	UST	N/A	N/A
49	WPAFB	2	10830	95	MEDICAL CENTER	293928	UST	N/A	N/A
57	WPAFB	10	20092	151	AFRL/RZ	290525	UST	N/A	N/A
72	WPAFB	25	20021	183	AFRL/RZ	290529	UST	N/A	N/A
80	WPAFB	33	10298	237	88 ABW/CE	293929	UST	N/A	N/A
79	WPAFB	32	30206	235	88 ABW/CE	292237	UST	N/A	N/A
78	WPAFB	31	20557	222	88 ABW/CE	292561	UST	N/A	N/A
77	WPAFB	30	30151	188	88 MSG/LG		UST	N/A	N/A
76	WPAFB	29	30149	187	88 ABW/CE		UST	N/A	N/A
75	WPAFB	28	20021	186	AFRL/RZ	290529	UST	N/A	N/A
63	WPAFB	16	20018D	159	AFRL/RZ	290528	UST	N/A	N/A
73	WPAFB	26	20021	184	AFRL/RZ	290529	UST	N/A	N/A
216	WPAFB	210	20098	575	AFRL/RB		AST	N/A	N/A
71	WPAFB	24	20021	182	AFRL/RZ	290529	UST	N/A	N/A
70	WPAFB	23	20021	181	AFRL/RZ	290529	UST	N/A	N/A
69	WPAFB	22	20021	180	AFRL/RZ	290529	UST	N/A	N/A
68	WPAFB	21	20021	179	AFRL/RZ	290529	UST	N/A	N/A
67	WPAFB	20	20021	178	AFRL/RZ	290529	UST	N/A	N/A
66	WPAFB	19	20021	177	AFRL/RZ	290529	UST	N/A	N/A
74	WPAFB	27	20021	185	AFRL/RZ	290529	UST	N/A	N/A
128	WPAFB	81	34041	382	88 ABW/CE	293886	UST	N/A	N/A
214	WPAFB	208	20020A	477	AFRL/RZ		AST	N/A	N/A
135	WPAFB	88	20654	418	AFRL/RX	293934	UST	N/A	N/A
134	WPAFB	87	34010	388	88 ABW/CE	293899	UST	N/A	N/A
133	WPAFB	86	20011A	387	88 ABW/CE	293940	UST	N/A	N/A
132	WPAFB	85	20074	386	88 ABW/CE	293939	UST	N/A	N/A
131	WPAFB	84	20015	385	88 ABW/CE	293937	UST	N/A	N/A
137	WPAFB	90	10291	441	88 ABW/CE	293954	UST	N/A	N/A
129	WPAFB	82	30168	383	88 ABW/CE	293907	UST	N/A	N/A
142	WPAFB	136	10855	596	88 ABW/CE		AST	N/A	N/A
127	WPAFB	80	10271	381	88 ABW/CE	293952	UST	N/A	N/A
126	WPAFB	79	10271	380	88 ABW/CE	293952	UST	N/A	N/A
125	WPAFB	78	30093	378	88 MSG/LG	293892	UST	N/A	N/A

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124	WPAFB	77	30093	377	88 MSG/LG	293892	UST	N/A	N/A
123	WPAFB	76	30093	376	88 MSG/LG	293892	UST	N/A	N/A
122	WPAFB	75	30117	375	88 ABW/CE	293917	UST	N/A	N/A
130	WPAFB	83	20070	384	88 MSG/LG	293955	UST	N/A	N/A
149	WPAFB	143	20770	620	88 ABW/CE		AST	N/A	N/A
181	WPAFB	175	20094	199	AFRL/RB		AST	N/A	N/A
180	WPAFB	174	20094	198	AFRL/RB		AST	N/A	N/A
178	WPAFB	172	20094	195	AFRL/RB		AST	N/A	N/A
177	WPAFB	171	20094	194	AFRL/RB		AST	N/A	N/A
176	WPAFB	170	20094	124	AFRL/RB		AST	N/A	N/A
152	WPAFB	146	20085A	644	88 ABW/CE		AST	N/A	N/A
136	WPAFB	89	20655	421	AFRL/RX	293923	UST	N/A	N/A
150	WPAFB	144	31229	621	88 ABW/CE		AST	N/A	N/A
119	WPAFB	72	34021	372	445 MXS/LG	293888	UST	N/A	N/A
148	WPAFB	142	30143	603	88 ABW/CE		AST	N/A	N/A
147	WPAFB	141	31240	601	88 ABW/CE		AST	N/A	N/A
146	WPAFB	140	10856	600	88 ABW/CE		AST	N/A	N/A
145	WPAFB	139	20201	599	LIQUID FUELS		AST	N/A	N/A
144	WPAFB	138	20304	598	88 MSG/LG		AST	N/A	N/A
143	WPAFB	137	20304	597	88 MSG/LG		AST	N/A	N/A
151	WPAFB	145	30256	622	LIQUID FUELS		AST	N/A	N/A
93	WPAFB	46	30060	325	88 MSG/LG	293963	UST	N/A	N/A
101	WPAFB	54	20490	341	AFRL/RZ	293922	UST	N/A	N/A
100	WPAFB	53	20490	340	AFRL/RZ	293922	UST	N/A	N/A
99	WPAFB	52	20490	339	AFRL/RZ	293922	UST	N/A	N/A
98	WPAFB	51	20490	338	AFRL/RZ	293922	UST	N/A	N/A
97	WPAFB	50	20490	337	AFRL/RZ	293922	UST	N/A	N/A
96	WPAFB	49	30110	332	88 ABW/CE	292562	UST	N/A	N/A
121	WPAFB	74	34021	374	445 MXS/LG	293888	UST	N/A	N/A
94	WPAFB	47	30060	326	88 MSG/LG	293963	UST	N/A	N/A
104	WPAFB	57	20490	344	AFRL/RZ	293922	UST	N/A	N/A
221	WPAFB	215	10878	592	88 FSS/SV		AST	N/A	N/A
220	WPAFB	214	10878	591	88 FSS/SV		AST	N/A	N/A
219	WPAFB	213	355	586	88 ABW/CE		AST	N/A	N/A
218	WPAFB	212	20838	584	88 ABW/CE		AST	N/A	N/A
217	WPAFB	211	30884	581	88 ABW/CE		AST	N/A	N/A
183	WPAFB	177	20018	237	AFRL/RZ		AST	N/A	N/A
95	WPAFB	48	20620	328	88 ABW/CE	293932	UST	N/A	N/A
111	WPAFB	64	20490	351	AFRL/RZ	293922	UST	N/A	N/A
215	WPAFB	209	10866	573	88 FSS/SV		AST	N/A	N/A
118	WPAFB	71	34021	371	445 MXS/LG	293888	UST	N/A	N/A

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117	WPAFB	70	20252	369	AFRL/RZ	29989	UST	N/A	N/A
116	WPAFB	69	10266	364	88 ABW/CE	29351	UST	N/A	N/A
115	WPAFB	68	20481	363	88 ABW/CE	29336	UST	N/A	N/A
114	WPAFB	67	10277	356	88 ABW/CE	29353	UST	N/A	N/A
102	WPAFB	55	20490	342	AFRL/RZ	29322	UST	N/A	N/A
112	WPAFB	65	20490	352	AFRL/RZ	29322	UST	N/A	N/A
103	WPAFB	56	20490	343	AFRL/RZ	29322	UST	N/A	N/A
110	WPAFB	63	20490	350	AFRL/RZ	29322	UST	N/A	N/A
109	WPAFB	62	20490	349	AFRL/RZ	29322	UST	N/A	N/A
108	WPAFB	61	20490	348	AFRL/RZ	29322	UST	N/A	N/A
107	WPAFB	60	20490	347	AFRL/RZ	29322	UST	N/A	N/A
106	WPAFB	59	20490	346	AFRL/RZ	29322	UST	N/A	N/A
105	WPAFB	58	20490	345	AFRL/RZ	29322	UST	N/A	N/A
120	WPAFB	73	34021	373	445 MXS/LG	29388	UST	N/A	N/A
113	WPAFB	66	20490	353	AFRL/RZ	29322	UST	N/A	N/A

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Site #	WTMS-ES Site ID	Current Alias	Operable Unit	Description	ROD	RIP	RC	SC	RISK
1	LF1	LF1	OU 6	Landfill 1	9/30/1998	9/30/1998	9/30/2028	9/30/2028	NR
2	LF2	LF2	OU 6	Landfill 2	9/30/1998	9/30/1998	9/30/2028	9/30/2028	NR
3	LF3	LF3	OU 4	Landfill 3	9/30/1998	9/30/1998	9/30/2028	9/30/2028	NR
4	LF4	LF4	OU 4	Landfill 4	9/30/1998	9/30/1998	9/30/2028	9/30/2028	NR
5	LF5	LF5	OU 5	Landfill 5	9/30/1998	9/30/1998	9/30/2028	9/30/2028	NR
6	LF6	LF6	OU 4	Landfill 6	9/30/1998	9/30/1998	9/30/2028	9/30/2028	NR
7	LF7	LF7	OU 4	Landfill 7	9/30/1998	9/30/1998	9/30/2028	9/30/2028	NR
8	LF8	LF8	OU 1	Landfill 8	6/30/1994	6/30/1997	9/30/2028	9/30/2028	NR
9	LF9	LF9	OU 7	Landfill 9	9/30/1998	9/30/1998	9/30/2028	9/30/2028	NR
10	LF10	LF10	OU 1	Landfill 10	6/30/1994	6/30/1997	9/30/2028	9/30/2028	NR
11	LF11	LF11	OU 3	Landfill 11	9/30/1998	9/30/1998	9/30/2028	9/30/2028	NR
12	LF12	LF12	OU 3	Landfill 12	9/30/1998	9/30/1998	9/30/2028	9/30/2028	NR
13	LF13	LF13	OU 10	Landfill 13	9/30/1996	9/30/1996	9/30/1998	9/30/1998	NR
14	LF14	EFDZ1	OU 6	Earthfill Disposal Zone 1	9/30/1996	9/8/1992	9/30/1996	9/30/1996	NR
15	LF15	EFDZ2	OU 9	Earthfill Disposal Zone 2	9/30/1998	8/18/1992	8/18/1992	9/30/1998	NR
16	LF16	EFDZ3	OU 9	Earthfill Disposal Zone 3	9/30/1998	8/18/1992	8/18/1992	9/30/1998	NR
17	LF17	EFDZ4	OU 9	Earthfill Disposal Zone 4	9/30/1998	9/30/1998	9/30/1998	9/30/1998	NR
18	LF18	EFDZ5	OU 9	Earthfill Disposal Zone 5	9/30/1998	8/18/1992	8/18/1992	9/30/1998	NR
19	LF19	EFDZ6	OU 9	Earthfill Disposal Zone 6	9/30/1998	8/18/1992	8/18/1992	9/30/1998	NR
20	LF20	EFDZ7	OU 9	Earthfill Disposal Zone 7	9/30/1998	8/18/1992	8/18/1992	9/30/1998	NR
21	LF21	EFDZ8	OU 9	Earthfill Disposal Zone 8	9/30/1998	8/18/1992	8/18/1992	9/30/1998	NR
22	LF22	EFDZ9	OU 9	Earthfill Disposal Zone 9	9/30/1998	9/30/1998	9/30/1998	9/30/1998	NR
23	LF23	EFDZ10	OU 9	Earthfill Disposal Zone 10	9/30/1998	3/30/1993	3/30/1993	9/30/1998	NR
24	LF24	EFDZ11	OU 3	Earthfill Disposal Zone 11	9/30/1996	9/29/1992	9/30/1996	9/30/1996	NR
25	LF25	EFDZ12	OU 3	Earthfill Disposal Zone 12	9/30/1996	9/29/1992	9/30/1996	9/30/1996	NR
26	SS26	SP1	OU 3	Spill Site 1	9/30/98	9/30/98	9/30/98	9/30/98	NR
27	SS27	SP2	OU 2	Spill Site 2	9/30/98	9/30/98	9/30/98	9/30/98	NR
28	SS28	SP3	OU 2	Spill Site 3	9/30/98	9/30/98	9/30/98	9/30/98	NR
29	SS29	SP4	OU 10	Spill Site 4	9/30/98	9/30/98	9/30/98	9/30/98	NR
30	SS30	SP5	OU 8	Spill Site 5	9/30/98	9/30/98	9/30/98	9/30/98	NR
31	SS31	SP6	OU 8	Spill Site 6	9/30/98	9/30/98	9/30/98	9/30/98	NR
32	SS32	SP7	OU 8	Spill Site 7	9/30/98	9/30/98	9/30/98	9/30/98	NR
33	SS33	SP8	OU 10	Spill Site 8	9/30/98	9/30/98	9/30/98	9/30/98	NR
34	SS34	SP9	OU 8	Spill Site 9	9/30/98	9/30/98	9/30/98	9/30/98	NR
35	FT35	FTA1	OU 5	Fire Training Area 1	9/30/98	9/30/98	9/30/98	9/30/98	NR
36	FT36	FTA2	OU 3	Fire Training Area 2	9/30/98	9/30/98	9/30/98	9/30/98	NR
37	FT37	FTA3	OU 3	Fire Training Area 3	9/30/98	9/30/98	9/30/98	9/30/98	NR
38	FT38	FTA4	OU 3	Fire Training Area 4	9/30/98	9/30/98	9/30/98	9/30/98	NR

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39	FT39	FTA5	OU 3	Fire Training Area 5	9/30/98	9/30/98	9/30/98	9/30/98	NR
40	OT40	HP1	OU 8	Central Heating Plant 1, Bldg 66	9/30/98	9/30/98	9/30/98	9/30/98	NR
41	OT41	HP2	OU 4	Central Heating Plant 2, Bldg 271	9/30/98	9/30/98	9/30/98	9/30/98	NR
42	OT42	HP3	OU 10	Central Heating Plant 3, Bldg 170	9/30/98	9/30/98	9/30/98	9/30/98	NR
43	OT43	HP4	OU 10	Central Heating Plant 4, Bldg 1240	9/30/98	9/30/98	9/30/98	9/30/98	NR
44	OT44	HP5	OU 9	Central Heating Plant 5, Bldg 770	9/30/98	9/30/98	9/30/98	9/30/98	NR
45	DP45	BS1	OU 2	Burial Site 1	9/30/98	9/30/98	9/30/98	9/30/98	NR
46	DP46	BS2	OU 11	Burial Site 2	9/30/98	9/30/98	9/30/98	9/30/98	NR
47	DP47	BS3	OU 9	Burial Site 3	9/30/98	9/30/98	9/30/98	9/30/98	NR
48	DP48	BS4	OU 5	Burial Site 4	9/30/98	9/30/98	9/30/98	9/30/98	NR
49	ST49	UST 4020	OU 11	UST, Bldg 4020	9/30/98	9/30/98	9/30/98	9/30/98	NR
50	ST50	UST 71A	OU 8	USTs, Bldg 71A	9/30/98	9/30/98	9/30/98	9/30/98	NR
51	ST51	TFRM49A	OU 10	Tank Farm 49A	9/30/98	9/30/98	9/30/98	9/30/98	NR
52	ST52	ERTR	OU 10	East Ramp Tank Removal	9/30/98	9/30/98	9/30/98	9/30/98	NR
53	ST53	GLT	OU 5	Gravel Lake Tanks	9/30/98	9/30/98	9/30/98	9/30/98	NR
54	OT54	LTCSA	OU 2	Long Term Coal Storage Area	9/30/98	9/30/98	9/30/98	9/30/98	NR
55	OT55	TCSA	OU 2	Temporary Coal Storage Pile	9/30/98	9/30/98	9/30/98	9/30/98	NR
56	OT56	CSB 89	OU 2	Coal Storage Bldg 89	9/30/98	9/30/98	9/30/98	9/30/98	NR
57	OT57	C&CSA	OU 2	Coal and Chemical Storage Area	9/30/98	9/30/98	9/30/98	9/30/98	NR
58	SD58	CDA	OU 11	Chemical Disposal Area	9/30/98	9/30/98	9/30/98	9/30/98	NR
60	RW60	RADB	OU 9	Radioactive Waste Burial Site	9/30/98	9/30/98	9/30/98	9/30/98	NR
61	RW61	NUC	OU 9	Deactivated Nuclear Reactor	9/30/98	9/30/98	9/30/98	9/30/98	NR
62	LF62	LF 14	OU 3	Landfill 14	9/30/98	9/30/98	9/30/98	9/30/98	NR
63	SS63	SP 10	OU 2	Spill Site 10	9/30/98	9/30/98	9/30/98	9/30/98	NR
64	ST64	UST 119	OU 10	UST 119	9/30/98	9/30/98	9/30/98	9/30/98	NR
65	SS65	SP 11	OU 8	Spill Site 11	9/30/98	9/30/98	9/30/98	9/30/98	NR
66	DP066	BS 5	OU 9	Burial Site 5	9/30/98	9/30/98	9/30/98	9/30/98	NR
67	DP067	BS 6	OU 9	Burial Site 6	9/30/98	9/30/98	9/30/98	9/30/98	NR
68	DP068	Bldg 59	OU 8	Building 20059	9/30/98	9/30/98	9/30/98	9/30/98	NR
69	OT069	GW A/C A	BMP	Groundwater Area A/C	8/31/1999	8/31/1999	8/31/1999	8/31/1999	L
70	OT070	GW B	BMP	Groundwater Area B	8/31/1998	8/31/1998	8/31/1998	8/31/1998	L
	SS071	Bldg 59	Outlier	Building 59	-	-	12/30/2010	-	
	CD073	Bldg 25	Outlier	Building 25	-	-	6/21/2007	-	
	DP071	Bldg 79/95	Outlier	Buildings 79/95	-	-	9/1/2006	-	

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SECTION K

OTHER FEDERAL LAWS

In accordance with 40 CFR 270.3, the following laws have been reviewed for applicability with respect to the hazardous waste container storage facility at WPAFB:

- The Wild and Scenic Rivers Act, 16 USC 1273 et seq.
- The National Historic Preservation Act of 1966, 16 USC 470 et seq.
- The Endangered Species Act, 16 USC 1531 et seq.
- The Coastal Zone Management Act, 16 USC 1451 et seq.
- The Fish and Wildlife Coordination Act, 16 USC 661 et seq.

K-1 The National Historic Preservation Act

The following three locations on WPAFB are listed on the National Register of Historic Places. In no case will these places or uses of these places be impacted by construction or operation of the proposed hazardous waste container storage area.

1. Wright Brothers Memorial Mound Group
Registration No. PH0060305, February 12, 1974

The Wright Brothers Memorial Mound Group is located in Area B of the base and is open to the public (see Map 2). It consists of six mounds, which have been dated from 500 B.C. to 300 A.D. and which were established by either the Adena or the Hopewell Indians. The mounds are relatively small and gently sloping. They are maintained by the base as improved ground areas.

2. Wright-Patterson Air Force Base Mound
Registration No. PH0060330, February 23, 1972

The Wright-Patterson Air Force Base Mound is located in Area B of the base (see Map 2), but unlike the mound group, it is not open to the public. The mound is kept clear of brush, although large trees have been allowed to remain on it. It is dated 500 B.C. to 400 A.D. and was also established by either the Adena or Hopewell Indians.

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3. Huffman Field/Prairie Flying Field
Registration No. PH0060267, May 6, 1971

Huffman Prairie Flying Field is located in ~~Area-C~~ AREA A of the base (see Map 2). This field has a concrete pylon marking the start of the oval flight path that the Wright brothers used. On this field Wilbur and Orville Wright tested and perfected the airplane following the first flight at Kitty Hawk, North Carolina. The field, used from 1904 until 1916, was the world's first airport and was a training site for early pilots including the first military pilots.

Each of these three locations is situated far enough from the hazardous waste container storage areas to be isolated from potential impact. Surface water runoff would not affect the historic sites because it is not carried through or near the sites. Similarly, traffic carrying wastes to and from the facility would not create impacts because the established traffic routes do not pass the sites.

K-2 The Endangered Species Act

There are no federally endangered or threatened endangered species within one-quarter mile of Buildings 478/479. Both the Ohio Department of Natural Resources and the Department of Interior, Fish and Wildlife Service were contacted (Attachment K-1). Neither indicated the known presence of federally listed species in the vicinity of the site. The base has been surveyed for federally listed species, including those referred to in Attachment K-1, the clubshell mussel and the Indiana bat. The endangered Indiana bat was found on base a little over 2 miles from the site. The clubshell mussel was not found on base. The site itself does not have suitable habitat for either species.

K-3 Wild and Scenic River Act: Section 1510.16 (Wild and Scenic Rivers - Under DNR)

There are no wild or scenic rivers within one mile of Buildings 478/479. This information was verified by the Ohio Department of Natural Resources - Division of Natural Areas and Preserves (Attachment K-1).

JUN 27 2011

K-4 The Fish Wildlife Coordination Act

There are no waters of any stream or other body of water that will be proposed or authorized to be impounded, diverted, controlled, or modified in the area of Buildings 478/479.

K-5 The Coastal Zone Management Act

WPAFB is not located within a designated coastal zone.

Revision 0
September 2010

APPENDIX K-1

**OHIO DEPARTMENT OF NATURAL RESOURCES
U.S. DEPARTMENT OF THE INTERIOR**

JUN 27 2011

**DIV. OF HAZARDOUS
WASTE MGT.**

00357



DIVISION OF NATURAL AREAS & PRESERVES

1889 Fountain Square, Columbus, OH 43224
(614) 265-6453; (614) 267-3096 FAX

George V. Voinovich • Governor
Donald C. Anderson • Director

December 16, 1998

Colleen Kitch
Environmental Quality Management, Inc.
1310 Kemper Meadow Drive
Suite 100
Cincinnati, OH 45240

Dear Ms. Kitch:

After reviewing our Natural Heritage maps and files, I find the Division of Natural Areas and Preserves has no records of rare or endangered species in the Department of Air Force Wright Patterson Air Force Base project area, including a 1/4 mile radius, on the Fairborn Quad (PN: 3145).

There are no existing or proposed state nature preserves or scenic rivers at the project site. We are also unaware of any unique ecological sites, geologic features, breeding or non-breeding animal concentrations, champion trees, or state parks, forests or wildlife areas in the project vicinity.

Although we also have no data for Federal endangered or threatened species in your project area, you may wish to contact the U.S. Fish and Wildlife Service at 6950-H Americana Parkway, Reynoldsburg, OH, 43068; phone 614-469-6923; fax 614-469-6919. They coordinate the Federal Endangered Species Act.

Our inventory program has not completely surveyed Ohio and relies on information supplied by many individuals and organizations. Therefore, a lack of records for any particular area is not a statement that rare species or unique features are absent from that area. Please note that although we inventory all types of plant communities, we only maintain records on the highest quality areas. Also, we do not have data for all Ohio wetlands. For additional information on wetlands and National Wetlands Inventory maps, please contact Jim Given in the Division of Real Estate and Land Management at 614-265-6770.

Please contact me at 614-265-6818 if I can be of further assistance.

Sincerely,

Debbie Woischke, Data Specialist
Division of Natural Areas & Preserves

JUN 27 2011

DIV. OF HAZARDOUS
WASTE MGT.

00358



United States Department of the Interior

FISH AND WILDLIFE SERVICE

Ecological Services
6950 Americana Parkway, Suite H
Reynoldsburg, Ohio 43068-4132

January 5, 1999

Colleen A. Kitch
Environmental Quality Management
1310 Kemper Meadow Drive, Suite 100
Cincinnati, Ohio 45240

Dear Ms. Kitch:

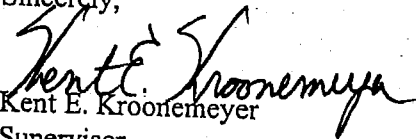
This responds to your request for information about fish and wildlife that occur in the vicinity of Wright Patterson Air Force Base, Greene County, Ohio. We understand that this information is necessary for renewal of an existing RCRA Part B Permit. We can only provide you with information about Federally listed endangered species located within the county. Two divisions of the Ohio Department of Natural Resources, the Division of Wildlife (614-265-6300) and the Division of Natural Areas and Preserves (614-265-6472), maintain lists of plants and animals of concern to the State of Ohio. The Division of Natural Areas and Preserves has access to the "Natural Heritage Database" which lists information, including location, about all plant and animal species in Ohio.

ENDANGERED SPECIES COMMENTS: To facilitate compliance with Section 7(c) of the Endangered Species Act of 1973, as amended, Federal agencies are required to obtain from the Fish and Wildlife Service information concerning any species, listed or proposed to be listed, which may be present in the area of a proposed action. Therefore, we are providing you the following list of endangered (E), threatened (T), or proposed (PT or PE) species which may be present in Greene County:

Indiana bat (E)
Clubshell mussel (E)

If you have questions or we may be of further assistance in this matter please contact Mr. Bill Kurey of this office at 614-469-6923 ext. 14.

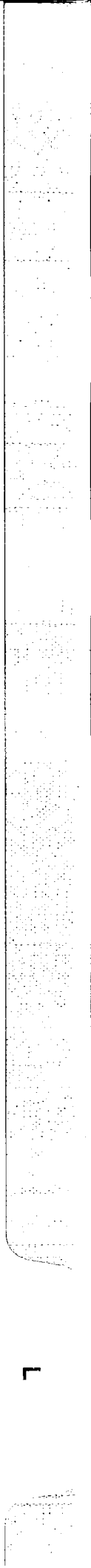
Sincerely,


Kent E. Kroonemeyer
Supervisor

JUN 27 2011

DIV. OF HAZARDOUS
WASTE MGT.

00359



SECTION L
CERTIFICATION
[40 CFR 270.11]

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Operator and Owner

Date: 30 Sept 2010

Signature: _____

Amanda Gladney

Amanda W. Gladney
Colonel, USAF
Commander

JUN 27 2011



NEW 6" THICK, VINYL FACED, R-19, BATT INSULATION

EXISTING METAL ROOFING ON "C" CHANNELS

EXISTING GUTTER

NEW METAL FLASHING

NEW 6" "Z" CHANNEL WELDED TO NEW W6x20

NEW W6x20 WELDED
TO EXISTING STEEL COLUMN
AND ANCHORED TO FOUNDATION

NEW 6" THICK, VINYL FACED, R-19, BATT INSULATION

NEW 6" "Z" CHANNEL WELDED TO NEW W6x20

EXISTING STEEL COLUMN

NEW 26 GA. METAL SIDING, TO MATCH
EXISTING, SCREWED TO CHANNELS

NEW 6" "Z" CHANNEL WELDED TO NEW W6x20

NEW METAL SILL FLASHING

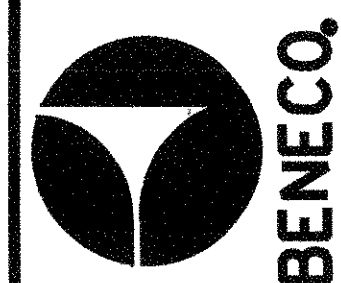
EXISTING CONCRETE FOUNDATION

1
2 3
DETAIL
NTS

Revisions

#	Date	Description

SABER Office, Wright-Patterson Air Force Base
Phone: (937) 255-3444
Fax: (937) 255-3444
Wright-Patterson AFB, OH 45433-9905



RENOVATE HAZ-MAT FACILITY, BLDG. 20479

Contract #: F33601-96-DW005

Gov't. Project #: 97-1873

D.O. #: 5049

Benece Project #: W1019

Detail

Drawn By: LA

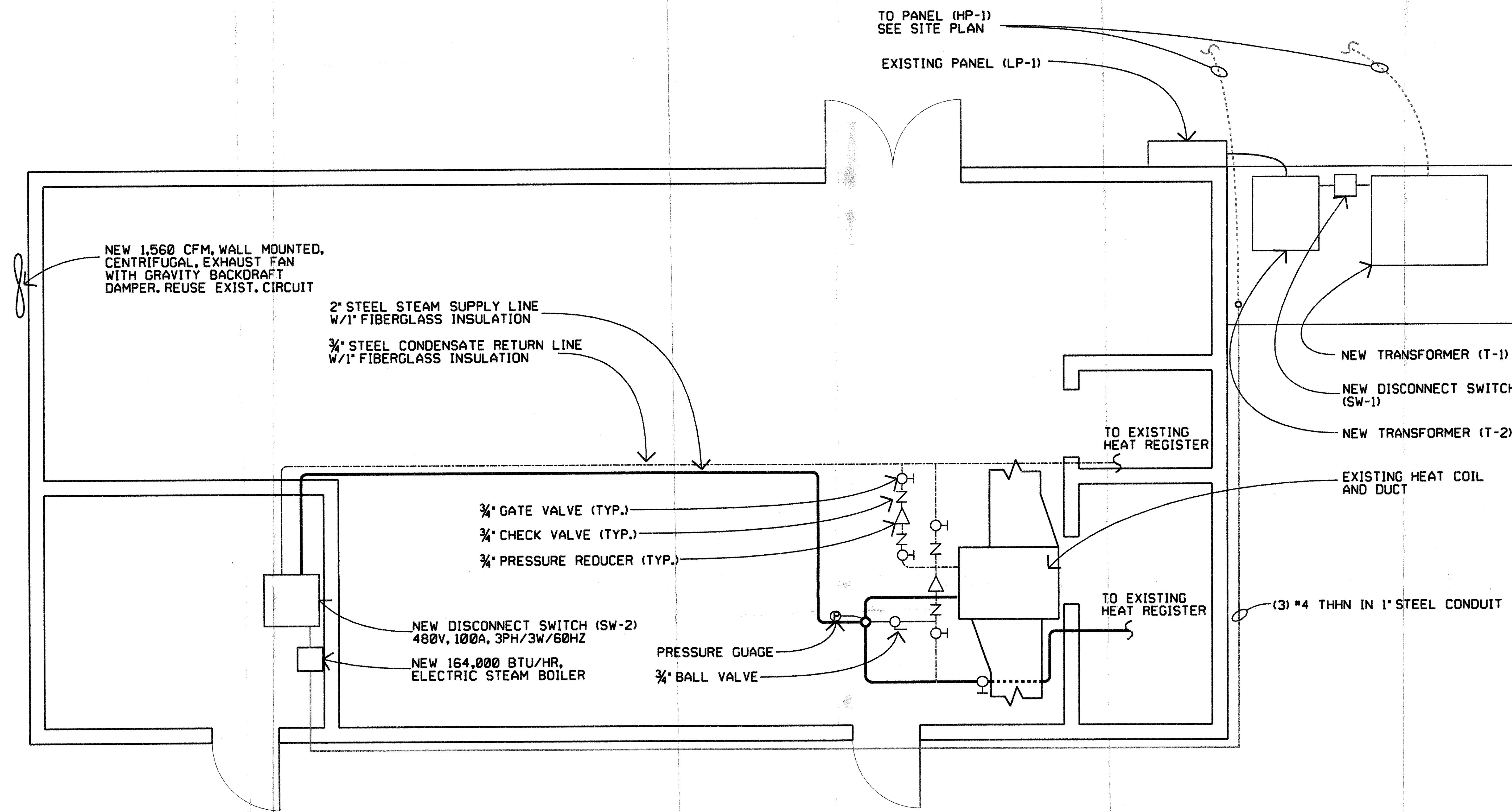
Checked By: MD

Scale: As Noted

Date: 15 Dec 97

JUN 27 2011
DIV. OF HAZARDOUS
WASTE MGT.
Sht. 3 of 5

CG224





FLOOR PLAN - BLDG. 478
 SCALE: 3/16" = 1'-0"

Revisions	
#	Date Description

SABER Office, Wright-Patterson Air Force Base
 Plan No. 1001-25-000
 Rev. 1001-25-000
 Wright-Patterson AFB, OH 45433-3858

RENOVATE HAZ-MAT FACILITY, BLDG. 20479

Contract #: F33601-96-DW005
 Gov't. Project #: 97-1873
 D.O. #: 5049
 Beneco Project #: W1019

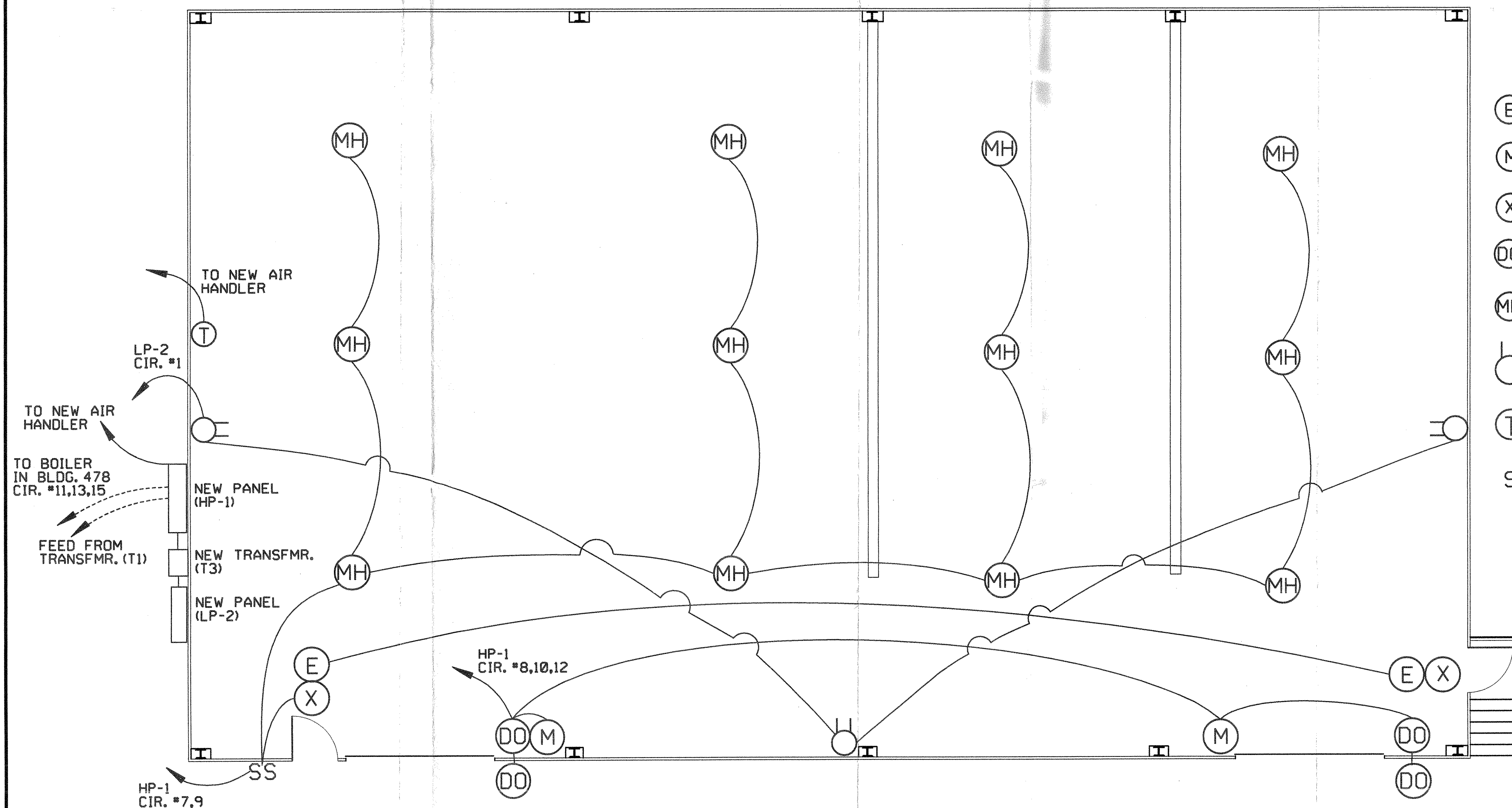


BENECO.

Mechanical Plan

Drawn By: LA	Checked By: MD
Scale: As Noted	Date: 15 Dec 98

JUN 27 2011
DNV OF HAZARDOUS WASTE MGMT.
Sht. 4 of 5



LEGEND

- (E) EXPLOSION-PROOF EMERGENCY EXIT LIGHTING
- (M) ROLLING OVERHEAD DOOR MOTOR
- (X) EXPLOSION-PROOF EMERGENCY EXIT SIGN
- (DO) THREE BUTTON, EXPLOSION-PROOF, DOOR OPERATOR
- (MH) LOW BAY, EXPLOSION-PROOF, 175W. METAL HALIDE LIGHT FIXTURE
- 120V, 20A, EXPLOSION-PROOF RECEPTACLE
- (T) THERMOSTAT
- S WEATHER-PROOF LIGHT SWITCH



ELECTRICAL PLAN - BLDG. 479

Revisions	
#	Description

SABER Office, Wright-Patterson Air Force Base
 Phone (937) 255-2444
 FAX (937) 255-2985
 Wright-Patterson AFB, OH 45433-5065



RENOVATE HAZ-MAT FACILITY, BLDG. 20479

Contract #: F33601-96-DW005

Gov't. Project #: 97-1873

D.O. #: 5049

Beneco Project #: W1019

Electrical Plan

Drawn By:	LA	Checked By:	MD
Scale:	As Noted	Date:	15 Dec 98

JUN 27 2011
 DIV. OF HAZARDOUS
 WASTE MGT.
 Sht. 5 of 5

SECTION E
GROUNDWATER MONITORING

The requirements of 40 CFR 264.90 and OAC 3745-54-90 for groundwater monitoring are not applicable to the hazardous waste management units covered in this application for WPAFB. All wastes will be containerized. No surface impoundments, landfills, or land treatment activities will exist at this facility.

JUN 27 2011

SECTION F

PROCEDURES TO PREVENT HAZARDS

The information provided in this section is submitted in accordance with the requirements of 40 CFR 270.14 (b)(4), (5), (6), (8), and (9), and OAC 3745-54-32 to 37. Other regulations addressed to complete this section include 40 CFR 264.14, 264.15, 264.17, 264.194, and 264.254.

This section addresses general security provisions; inspection schedules; the spill prevention and containment plan; and the prevention of accidental ignition or reaction of ignitable, reactive, or incompatible wastes.

F-1 Security

Security procedures to be implemented in order to prevent hazards are described below.

F-1a Security Procedures and Equipment [40 CFR 270.14(b)(4) and 264.14]

A waiver of the security requirements is not requested.

F-1a(1) 24-Hour Surveillance System [40 CFR 264.14(b)(1)]

Building 479 is located within fenced and secured areas. Wright-Patterson AFB is responsible for onsite security to control entry, at all times, through the secured gates or other entrances to the active portion of the entire installation. The Security Forces Squadron will patrol Building 479 and will control entry onto the active portion of Building 479 during hours of non-operation. The patrol will be performed year-round, and will check the fence line and buildings. The procedures and personnel used will be determined by the Security Forces Squadron. Security Forces will notify the ~~real property building manager (RPBM)~~ FACILITY MANAGER, who is an Asset INSTALLATION Management Division employee, of anyone requesting access to Building 479 and the RPBM FACILITY MANAGER will determine if access is granted and accompany that person to the area.

F-1a(2) Barrier and Means to Control Entry [40 CFR 264.14(b)(2)(i)]

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JAN 07 2015

F-1

Southwest District
OHIO EPA
SWDO

FEB 26 2015

F-1a(2)(a) Barrier --

A 6-foot-high metal chain-link fence topped with three strands of barbed wire encircles the property of Building 479 as shown on Figure F-1.

F-1a(2)(b) Means to Control Entry [40 CFR 264.14(b)(2)(ii)] --

During duty hours anyone entering Building 479 will be required to sign in on the log sheet. Access to the Building 479 area is provided by two gates, with direct access to the inside of Building 479 provided by two overhead doors and one personal door on the northern side and a personal door on the western side. The gates to Building 479 will be locked during non-duty hours. All doors to Building 479 will be kept locked unless the building is occupied by personnel. The locks used for Buildings 478/479 can be opened by one key giving access to both buildings.

F-1a(3) Warning Signs [40 CFR Section 264.14(c)]

Warning signs with the legend, "Danger - Unauthorized Personnel Keep Out," are posted at the entrances to Building 479. These signs are visible from 25 feet and are printed in English.

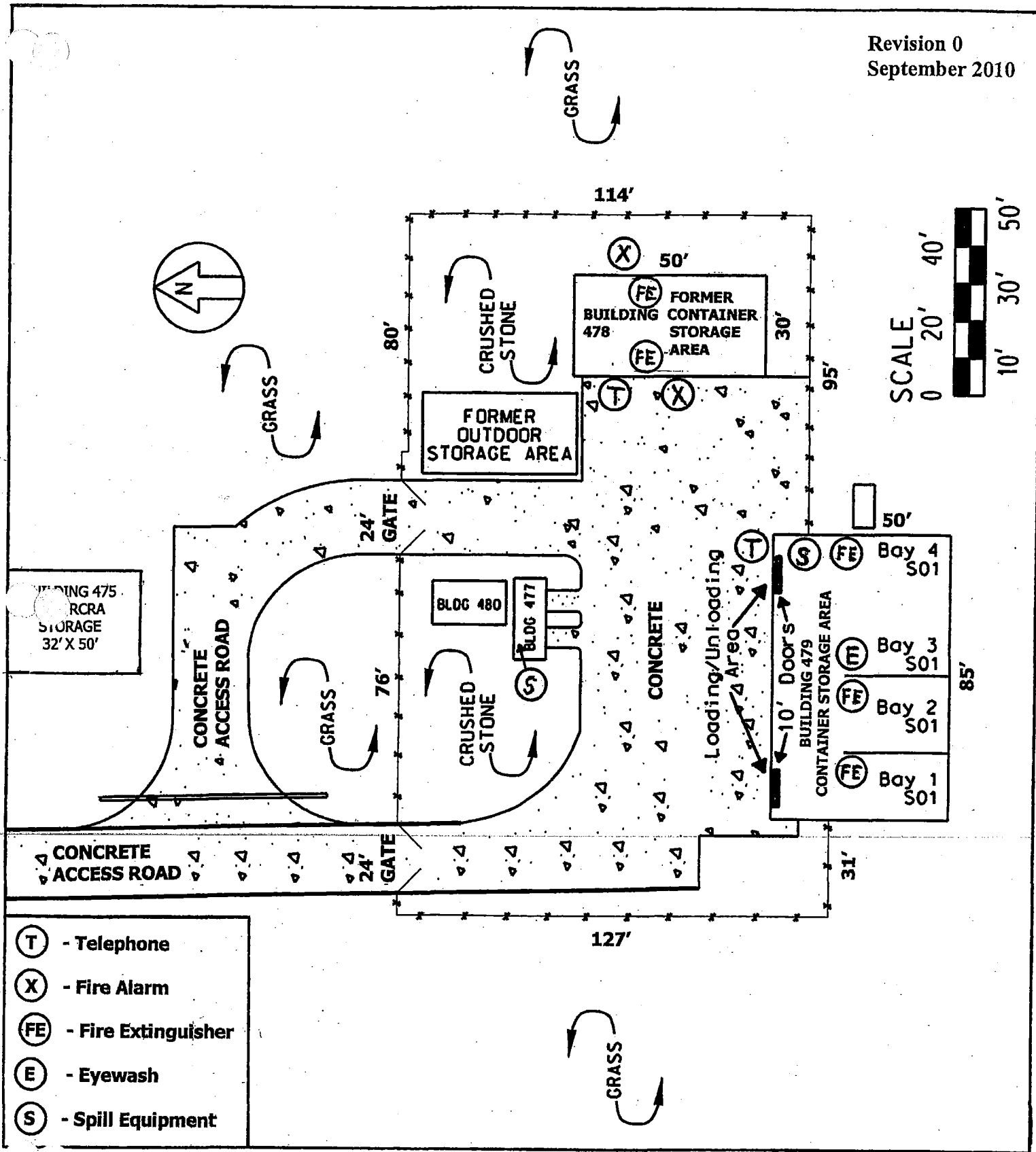
F-1b Waiver [40 CFR 264.14(a)]

Wright-Patterson does not request a waiver.

F-2 Inspection Schedule [40 CFR 270.14(b)(5) and 264.15]

Table F-1 presents the General Inspection Schedule for inspecting safety and emergency equipment, security devices, operating and structural equipment, monitoring equipment, communication equipment, and mobile equipment at Building 479. Items listed in Table F-1 are important because of their role in preventing, detecting, or responding to environmental or human health hazards.

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September 2010



- (T) - Telephone
- (X) - Fire Alarm
- (FE) - Fire Extinguisher
- (E) - Eyewash
- (S) - Spill Equipment

TABLE F-1. EXAMPLE GENERAL INSPECTION SCHEDULE

Area/Item	Types of Problems	Frequency of Inspection
Face Shields & Chemical Goggles	Broken, Damaged, or Missing	Weekly
Protective Clothing	Missing, Unserviceable	Weekly
Absorbents (e.g., Clay, Pads)	Present and Accessible	Weekly
Emergency Shower/Eyewash	Leaking, Flushed	Weekly
Ventilation System	Not Operating, Blocked	Weekly
Non-Sparking Shovel	Missing, Damaged	Weekly
Non-Sparking Bung Wrench	Missing, Damaged	Weekly
Fire Extinguishers	Not Mounted, Missing, Not Charged	Weekly
Fire Alarm System	Not Operating, In Alarm	Weekly
Telephone System	Not Operating	Weekly
Warning Signs	Missing, Illegible	Weekly
Security Lights	Not Operating	Weekly
Doors, Locks, Fence, and Gates	Locks Missing, Signs of Tampering	Weekly
General Debris & Refuse	General Housekeeping	Weekly
Containment Trenches, Roof, Walls	Evidence of Leakage, Unobstructed	Weekly
Containers	Structural Damage, Sealed, Leaking	Weekly
Labeling of Containers	Start Date, Date in EPA Waste Code	Weekly
Load/Unload Area	Evidence of Spills, Safe and Clean	Weekly
Aisle Space	3 ft, Clean, Unobstructed	Weekly
Container Segregation	Hazard Classes Separated	Weekly
General Lighting	Burned out, Not Operating	Weekly
Surrounding Area Cleanliness	Policing of Perimeter	Weekly

F-2a General Inspection Requirements [40 CFR 264.15(a)] and (b) and 270.14(b)(5)]

Facility personnel will conduct regular inspections at its proposed facility and Building 479 for equipment malfunctions, structural deterioration, operator errors, the number of drums in each storage area or bay and discharges that could cause or lead to the release of hazardous waste constituents and adversely affect the environment or threaten human health. Inspection log sheets are shown in Appendix F-1. Current calendar year inspection log sheets are kept at the storage facilities.

F-2a(1) Types of Problems [40 CFR 264.15(b)(3)]

Table F-1 presents an example schedule for inspection of monitoring equipment, safety and emergency equipment, security devices, operating and structural equipment, and container storage areas. Items listed in the tables are considered important because of their role in preventing, detecting, or responding to environmental or human health hazards. Provided with each item is a list of problems normally encountered.

F-2a(2) Frequency of Inspection [40 CFR 264.15(b)(4)]

Also provided in Table F-1 is the suggested frequency of inspection for each item. The frequency depends upon equipment deterioration, environmental or human health incidences, or equipment malfunction between inspections. The frequency of inspection will increase when problems are discovered. The loading/unloading dock will be constantly observed by facility personnel when in use. As a minimum, a complete visual inspection of the hazardous property, facility storage areas, personal protection clothing and equipment will be made weekly. Container labels and material compatibility will be inspected upon receipt as well as weekly.

F-2b Specific Process Inspection Requirements [40 CFR 270.14(b)(5) and 264.15(b)(4)]

The only specific process inspection item to be discussed below is container inspection. Table F-2 lists the Specific Process Inspection Schedule for Building 479. Inspections of waste piles, surface impoundments, incinerators, landfills, and land treatment facilities are not applicable to this

TABLE F-2. SPECIFIC PROCESS INSPECTION SCHEDULE

Area/Equipment	Specific Item	Types of Problems	Frequency of Inspection
Container Storage Area	Container placement and stacking	Insufficient aisle space, height of stacks excessive	Weekly
	Sealing of containers	Open lids	Weekly*
	Labeling of containers	Improper identification, accumulation date, data missing, label missing, not intact, or not readable	Weekly*
	Containers	Corrosion, leakage, structural defects, number of containers per area/bag	Weekly*
	Trays/liners	Corrosion, leakage, structural defects	Weekly
	Racks	Stability, structural defects	Weekly
	Segregation of incompatible wastes	Storage of incompatible wastes in same area	Weekly*
	Pallets	Damaged (e.g., broken wood, warping nails missing)	Weekly
	Fence, gate and lock	Corrosion, damage to chain-link fence; sticking or corroding lock	Weekly*
	Base or foundation	Cracks, spalling, uneven settlement	Weekly*
	Debris and refuse	Aesthetics, possible reaction with leaks	Weekly
	Ramps	Cracks, spalling, uneven settlement, erosion	Weekly*
	Warning signs	Damaged, illegible	Weekly*

* Daily when loading/unloading

permit application because none of these exist at Building 479. Tanks will not be used to store hazardous waste at WPAFB.

F-2b(1) Container Inspection [40 CFR 264.174]

Inspections of the container storage area will be conducted weekly in accordance with Table F-2 by an employee trained in hazardous waste management procedures. (Refer to Section H of this document for details regarding personnel training.) Other information contained in Table F-2 includes a summary of the anticipated problems discovered during inspection of the containers and the frequency of inspection.

All results of the general (Section F-2a) and specific process (Section F-2b) inspections will be recorded on log sheets (Appendix F-1), which are stored at Building 479. Information on these log sheets includes the name of the inspector, date and time of inspection, item, problems observed, and the date and nature of repairs and remedial action(s). All inspection logs will be maintained at the facility for a minimum of three years.

F-2b(2) Tank Inspection [40 CFR 264.194]

This section is not applicable because this facility will not store hazardous wastes in tanks.

F-2b(3) Waste Pile Inspection [40 CFR 264.254, 270.14(b)(5), and 270.18(e)]

This section is not applicable because this facility will not maintain any waste piles.

F-2b(4) Surface Impoundment Inspection [40 CFR 270.14(b)(5) and 270.17(d) and 264.226(b)]

No surface impoundments will be maintained at this facility.

F-2b(5) Incinerator Inspection [40 CFR 264.347]

No incinerators will be maintained at this facility.

F-2b(6) Landfill Inspection [40 CFR 270.21(d), 264.15(a) and 264.303]

No landfills will be used at this facility.

F-2b(7) Land Treatment Inspection [40 CFR 270.20(c)(5) and 264.273(g)]

No land treatment of wastes will occur at this facility.

F-2c Remedial Action [40 CFR 264.15(c)]

If inspections reveal that non-emergency maintenance is needed, the Asset INSTALLATION Management Division will initiate immediate action(s) to preclude further damage and to reduce the need for emergency repairs. If a hazard is imminent, or has already occurred, remedial action(s) will immediately be taken. Appropriate authorities will be notified according to the Contingency Plan (see Section G). In the event of an emergency involving the release of hazardous substances to the environment, efforts will be directed towards containing the hazard, removing it, and subsequently decontaminating the affected area. These procedures are also outlined in the Contingency Plan (see Section G).

F-2d Inspection Log [40 CFR 264.15(d) and 264.73(b)(5)]

Inspection log notebooks kept onsite at Building 479 for at least 3 years. Appendix F-1 indicates that the inspection log requires the date and time of inspection, the name of the inspector, the items inspected, a notation of the observations made, and the date and nature of any repairs or other remedial actions.

F-3 Waiver of Preparedness and Prevention Requirements [40 CFR 270.14(b)(6)]

This applicant does not request a waiver of the preparedness and prevention requirements under 40 CFR Part 264, Subpart C.

F-3a Equipment Requirements [40 CFR 264.32]

F-3a(1) Internal Communications

Near the entrance door to both Buildings 478 and 479, telephones provide internal communication capability with other base operations that may be called upon to assist in an emergency.

Immediate emergency instruction will be provided at Buildings 478/479 by voice. Telephones are located at both Buildings 478 and 479 that can be used to contact base emergency response organizations.

F-3a(2) External Communications

The Buildings 478/479 telephone system will also provide external communication capability for the purpose of calling for assistance, if and when needed. The telephone system complies with 40 CFR 264.30(b) and OAC 3745-54-32(B).

Should the telephones located at Buildings 478 and 479 be unreachable or unusable, nearby buildings (numbers 156, 470, or 157) can provide a phone for communication purposes. During all waste handling operations, a minimum of two people serve on the work crews.

Typically, WPAFB would not contact outside or off base agencies for assistance since the base can provide emergency response services, such as a fire department, hospital, ambulance service, and Security Forces Squadron to respond to an emergency at the storage facility. These services are described in the facility contingency plan provided in Section G. However, the base does have an internal radio network that can simultaneously notify local community police departments, county sheriff, and the Ohio State Patrol. They would be contacted by the base Security Forces Squadron to offer assistance in establishing roadblocks and off base evacuation.

Access to communications equipment is provided during normal operating hours by the base telephone system. During non-operating hours, surveillance and emergency communications are provided by the base Security Forces Squadron inter-city radio that can be used to simultaneously contact local police departments, the County sheriff, and Ohio State Patrol to assist in establishing off base roadblocks and in evacuating potentially affected communities, if necessary.

F-3a(3) Emergency Equipment

Fire, spill control, and decontamination equipment is discussed in Section G-5 for Building 479. Table F-3 presents the equipment list for Building 479.

TABLE F-3. FACILITY EMERGENCY EQUIPMENT LIST FOR BUILDING 479

	Item	Quantity	Purpose
1. Spill Control	Hazard pillows	10 pillows	For absorbing chemical leaks or spills
	Speedie Dry	5 50# bags	Absorbs oil, fuel, and some chemicals
	Laboratory Spill Kit	1	Testing caustic, acid & solvent spills
	Empty drums	5-55 gallons (minimum)	For the storage of material from leaking drums and spill situations
	Hand tools: shovel, bung wrench, etc.	1 each	For both routine operations and spill situations
2. Safety and Emergency Equipment	Eye wash and shower	1	To flush the eye or whole body with water in case of inadvertent contact with chemicals
	Telephone	1	Located outside the facility near the front door, it provides communication with other base facilities
	Fire extinguishers	3 4	THREE ABC grade fire extinguishers AND ONE CLASS D FIRE EXTINGUISHER are available for the purpose of all small fires
	Fire alarm	1	Activation of alarm notifies Fire Station No. 4 in Area B of the base
	Personnel Protective Equipment	(Required Minimum Quantities)	Necessary to protect the human body from exposure to hazardous chemicals
	Respirator	2	
	Surgical gloves	20 pairs	
	Face shield	1	
	Hand gloves	3 pair	
	Goggles	2	
	Plastic apron	2	

F-3a(4) Water for Fire Control

As an operating practice, smoking is banned on the premises of the storage facilities. This practice, together with the availability of fire-fighting equipment at the facility and on the base, contributes to minimizing and controlling fires at the facility.

In Building 479, THREE ABC fire extinguishers AND ONE CLASS D FIRE EXTINGUISHER are available. A planned inventory is shown in the contingency plan. Fire extinguishers are inspected at least weekly for ready condition in accordance with the Facility Inspection Plan in Table F-1. Any noted deficiencies are repaired.

Additionally, Buildings 478/479 have an automatic fire suppression system. The fire suppression system for Buildings 478 and 479 was designed per the requirements of NFPA 30, "Flammable and Combustible Liquids Code." The fire suppression media will be a foam solution consisting of 3% alcohol foam concentrate and 97% water. The system has a supply density of 0.3 gpm per square foot with enough capacity to provide a 15 minute foam supply over a 2,000 square foot area.

The foam system is located in Building 478 in an equipment room with a 2-hour fire rated walls, with access to the room from the outside of the building only. The fire suppression system is an air pressurized, dry pipe system. When a sprinkler head opens, air pressure is released, causing the dry pipe valve to open and fill the sprinkler piping system. The foam solution is then dispersed through the open sprinkler head(s) to Buildings 478 and 479. Standard sprinkler heads are used and are located just below each building's roof structure with a maximum spacing of 100 square foot per head. The sprinkler heads will activate at 165° F. Water flow will activate an audible alarm bell and send a signal to the building's fire alarm panel.

A fire department connection to the foam system and a fire hydrant is installed at the intersection of 13th Street and the Access Road to the building. Appendix B-1 provides specifications on the fire suppression system.

A fire alarm near the door of Building 478, when pulled, automatically informs the base Fire Department of an emergency and dispatches the nearest available response team with fire-fighting equipment to the facility. There are three fire stations on the base, with the nearest station, No. 3, approximately 1/4 mile from the facility.

This proximity means that emergency response at the facility can be very rapid. An additional description of this system is provided in the Contingency Plan. Water for fire control is available through use of the base's water supply lines and two fire hydrants located near the facility. One fire hydrant is located near Building 470, approximately 800 feet from the storage facility. A second fire hydrant is located near Building 156, approximately 550 feet from the storage facility. The water line and/or hydrants can be tapped by the base's fire department to provide adequate volume and pressure to supply a water hose stream if necessary. These hydrants are capable of producing pressure volume of 2,000 gallons/minute with an available residual pressure of 20 psi. Map 8 identifies the locations of these features closest to Building 479. The base water supply is obtained from onsite ground water wells. The locations of the base water supply wells are shown on Map 3.

F-3b Aisles Space Requirements [40 CFR 264.35]

In Building 479, all containers will be accessible to fire and spill control equipment. As shown in Figure 4-1, Building 479 is a four-sided structure, and is provided with 2 doors that provide access to emergency response equipment.

Building 479 incorporates a minimum of 3 feet of aisle space between each row of pallets containing 55-gallon drums or shelving units holding small containers of non-flammable waste. A minimum of 4 feet of aisle space will be maintained between pallets or shelving units holding small containers containing flammable waste in accordance with NFPA standards. This aisle space is sufficient to permit an inspector to walk the length of each bay. In Building 479, aisle spaces are sufficient to allow unobstructed movement of personnel not only during loading and unloading, but also during facility inspections and emergency response actions. Workmen are instructed to keep aisles clear of obstructions at all times.

F-4 Preventive Procedures, Structures, and Equipment [40 CFR 270.14(b)(8)]

See Section G-5.

F-4a Loading and Unloading Operations [40 CFR 270.14 (b)(8)(i)]

All containers when loaded or unloaded will be sealed; containers will be stored on wooden pallets approximately 4 feet by 4 feet in size. All containers in Building 479 may be stored on either pallets or shelving units. The pallets with wastes can easily be lifted onto or off trucks and storage racks using a forklift. The forklifts used for hazardous waste storage handling will be designed as EE, per 29 CFR 1910.178, and will have a 4,000 pound capacity with extended reach and drum grabbers if a forklift or drum dolly cannot be used. The forklifts allow personnel to stack at any height on the racks from floor level to the third tier with equal ease.

Wastes that are transported to the storage facility ~~by base personnel~~ are delivered in small quantities, either in small containers, such as 5-gallon cans or pint jars, or in 55-gallon drums. A loading dock is designed to facilitate movement of 55-gallon drums to or from building 479. The drums are unloaded manually by base personnel with the use of a pallet mover or a drum cart. Once a drum is offloaded, the pallet mover, a drum cart, or forklift would be used to position the drum(s) into the storage bay designated for that waste type. Small containers, such as 5-gallon paint cans, are designated for storage within Building 479. The waste containers would be unloaded by hand and carried into the building. Building 479 has a ramp that allows easy access to the storage area. Figure F-1 shows loading and unloading areas for Building 479.

Movement will be minimized by having the wastes taken directly to their storage location after the inspection procedures, as described in Section C-3b, have been completed and the facility personnel have determined that the waste will be accepted. These procedures involve coordinating with the turn-in activity, checking documents (disposal turn-in document), and labeling/marketing of the containers. Through these methods, Installation Management Division personnel determine the waste category and assign a storage location. In the event of a spill, spill response materials and equipment are available as discussed in Section G.

F-4b Runoff [40 CFR 270.14(b)(8)(ii)]

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Wastes stored on shelves, some with containment trays, in Building 479 are small container wastes, labeled with the original manufacturer's label or a handwritten label similar to the actual manufacturer's label when it is not available. The wastes are segregated and isolated from other incompatible wastes. Wastes are stored on shelves, some with metal containment trays (refer to Figure D-4).

Building 479 stores all containers according to waste type. All 55-gallon drums stored meet DOT specifications for storage. The building is enclosed on all four sides to prevent precipitation from entering the building. Building 479 utilizes concrete berms to separate drum storage thus assuring diversion of liquids to separate collection trenches located in each bay. The floor has approximately 1.25 percent grade slope to facilitate liquid runoff into trenches at the north and south end of each bay. The trenches are designed to contain at least 10 percent of the volume of the contained drums. Empty drums are located in each area to facilitate spill cleanup. The floors have a 6" concrete curb around exterior sides of the building to prevent run-on into storage areas. The floors and trenches are coated with an impervious epoxy substance. The epoxy is selected with respect to compatibility with the stored waste material. The building is not located within the 100 year flood plain or within 1,000 feet of groundwater withdrawal wells.

F-4c Water Supplies [40 CFR 270.14(b)(8)(iii)]

The water supply for WPAFB is taken from actively pumping groundwater wells in Areas A, B, and C AREAS A AND B of the base. There are no surface or groundwater withdrawal wells within 1,000 feet of Buildings 478/479 (see Map 3).

The design of Buildings 479 eliminates the likelihood of surface water or groundwater contamination, since all wastes are stored indoors and handled within bermed areas.

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F-4d Equipment and Power Failure [40 CFR 270.14(b)(8)(iv)]

Building 479 will only store containerized waste; no automatic waste feed systems will exist. In the event of a brief power interruption, all waste handling (e.g., loading, unloading, sampling) activities will cease until power can be restored.

Equipment used at the hazardous waste storage facilities that could fail or would be affected by a power failure includes the existing building's ventilation and lighting systems.

The ventilation system and lighting system, if out of operation, would be repaired by base maintenance personnel immediately. Both systems operate when personnel are inside the existing building performing inspections and receiving or preparing wastes for shipment. These operations occur from 8:00 am until 4:00 pm when the base maintenance department is available to respond to equipment failure.

Should a power failure occur during non-operating periods, the power failure would be noted in adjacent buildings and by an annunciator registering the power outage at the base's central electrical generating plant. The annunciator would inform the on-duty personnel, and an established procedure of notifying by phone the real property building manager (the base environmental engineer) would be followed and the manager informed of the power outage. This notification would result in an inspection of the hazardous waste storage area the following work day to inquire whether the building's power supply has failed. This inspection would be conducted by the base environmental engineer or his trained designee as identified in the facility contingency plan. Since the ventilation system is needed to assure safe operating conditions for personnel in the building, power would be restored the next working day, and no work would proceed without an operable system. Should the base environmental engineer or his designee request that power be restored immediately by use of backup electrical power generators, these generators can be delivered and set up by the base maintenance department on an emergency basis, 24 hours a day.

F-4e Personnel Protection Equipment [40 CFR 270.14(b)(8)(v)]

A description of available protective equipment at Building 479 is presented the Contingency Plan (Section G). The use of protective equipment is covered in the Personnel Training Program (Section H). The information in these two sections indicates that any operation such as bulking and consolidation of hazardous wastes will only be accomplished by personnel wearing the appropriate protective equipment. Equipment will include, but not be limited to, protective gloves, eye and face guards, overalls, and boots. Depending on the hazard associated with the particular material being handled and its volatility, fullface-piece respirators or masks equipped with chemical filtration cartridges will be required.

Prior to handling any hazardous wastes, the Hazardous Waste Pickup Form (Figure C-1), chemical analysis, Material Safety Data Sheet (MSDS) and/or other reference will be reviewed for the particular waste stream in question, to determine which safety equipment will be used.

F-5 Prevention of Reaction of Ignitable, Reactive, and Incompatible Wastes

F-5a Precautions to Prevent Ignition or Reaction of Ignitable or Reactive Wastes [40 CFR 270.14(b)(9) and 264.17(a) and (c)]

Hazardous wastes received at Building 479 will be in non-leaking containers, safe to handle, and will comply with DOT container regulations (49 CFR Parts 173, 178, and 179). This will minimize the potential for ignition and reaction of hazardous wastes.

Wastes will be separated at Building 479 and protected from sources of ignition or reaction, such as open flames, smoking, cutting and welding, hot surfaces, frictional heat, and sparks (static, electrical, or mechanical). Wastes will be classified as ignitables, reactives, corrosives, toxics, acids, and bases. These determinations will be based upon standard hazardous material reference data and/or lab analyses. (Refer to Section C-2 for more detail.) In order to prevent a possible source of external ignition, areas with drums containing ignitable and reactive wastes will prominently display a sign clearly marked with the legend "No Smoking." Spark-proof tools (e.g., brass hammers, wrenches) will be used on all containers storing ignitable materials.

Compatible wastes will be moved from Building 479 to Building 477, consolidated (bulked) in the east bay, and then returned to Building 479 before close of business (see Figure D-

4). Ignitables, acids and alkalines will be consolidated separately. Corrosives that are Department of Transportation (DOT) oxidizers will not be consolidated. Strong oxidizing acids and hydrofluoric acid will not be consolidated. Organic peroxides will not be consolidated. The following procedures will be followed during consolidation activities:

- A. The containers will be bonded and grounded
- B. Both overhead doors will be open. All containers associated with consolidation activities will be closed during transit between buildings
- C. Non-intrinsically safe items will be placed out of service
- D. Proper personal protective equipment (ppe) will be used
- E. Compatible containers will be used
- F. A minimum of two personnel will be present
- G. A cart with spill containment features will be used to transport waste containers between buildings
- H. Incompatible wastes will not be transported together
- I. No waste containers will be staged or stored outside of Building 477 during consolidation activities
- J. A spill kit will be available at Building 477
- K. Incompatible waste streams will not be consolidated at the same time

F-5b General Precautions for Handling Ignitable or Reactive Wastes and Mixing of Incompatible Wastes [40 CFR 264.17(b) and (c) and 270.14(b)(9)]

General precautions for handling ignitable or reactive wastes were discussed in Section F-5a. Wastes are not mixed at this facility. Furthermore, incompatible wastes with the same hazardous waste characteristic will not be stored in the same storage area.

F-5c Management of Ignitable or Reactive Wastes in Containers [40 CFR 270.15(c) and 264.176]

Map 2 shows that Buildings 478/479 are located over 50 feet from the base property line.

F-5d Management of Incompatible Wastes in Containers [40 CFR 270.15(d) and 264.177(a)]

Incompatible wastes or materials will not be mixed at Building 479. Containers will be segregated by waste types (Sections C-2 and F-5a) and stored in areas containing similar waste

types. Containment in Building 479 is provided by sloped floors and collection trenches. Aisle space will be maintained to allow access for a hand truck in the event removal is required at any time due to corrosion or leakage.

Any drums that previously held any waste will be washed and triple rinsed prior to being reused. To prevent accidental reaction of incompatible corrosives stored within the same Bay 2, acids and bases will be stored apart from one another on separate shelving units or in separate drum storage areas as depicted in Figure D-4. All small containers of acids or bases stored within the same Bay 2 will be on containment trays. No small containers will be stored on the floor.

F-5e Management of Ignitable, Reactive, or Incompatible Wastes

This section is not applicable because Building 479 will not store hazardous wastes in tanks, waste piles, surface impoundments, landfills, or land treatment areas.

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APPENDIX F-1
INSPECTION LOGS

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**DIV. OF HAZARDOUS
WASTE MGT.**

00252

Date/Time /		Inspection Log for 20479				
Item	Type of Problem	Sat	Un-Sat	NA	Problem Observed & Action Taken to Correct	
Face Shield & Chemical Goggles	Broken, Damaged, or Missing					
Protective Clothing	Missing, Unserviceable					
Absorbents (e.g. Clay, Pads)	Present and Accessible					
Emergency Shower/Eyewash	Leaking, Flushed					
Ventilation System	Not Operating, Blocked					
Non-Sparking Shovel	Missing, Damaged					
Non-Sparking Bung Wrench	Missing, Damaged					
Fire Extinguishers	Not Mounted, Missing, Not Charged					
Fire Alarm System	Not Operating, In Alarm					
Telephone System	Not Operating					
Warning Signs	Missing, Illegible					
Security Lights	Not Operating					
Doors, Locks, Fence and Gates	Locks Missing, Signs of Tampering					
General Debris & Refuse	General Housekeeping					
Containment Trenches, Roof Walls	Evidence of Leakage, Unobstructed					
Containers	Structural Damage, Sealed, Leaking					
Labeling of Containers	Start Date, Date In, EPA Waste Code					
Load/Unload Area	Evidence of Spills, Safe and Clean					
Aisle Space	3 ft. Clean, Unobstructed					
Container Segregation	Hazard Classes Separated					
General Lighting	Burned out, Not Operating					
Surrounding Area Cleanliness	Policing of Perimeter					
					Signature of Inspector	

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DIV. OF HAZARDOUS
WASTE MGT.

00253

SECTION G

CONTINGENCY PLAN – BUILDING 479

The information contained herein is submitted in accordance with the requirements for a Contingency Plan, as contained in 40 CFR 270.14(b)(7), 264 Subpart D, and 264.50 - 264.56.

G-1 General Information [40 CFR 264.52]

This Contingency Plan is for the hazardous waste storage Building 479 on Wright-Patterson Air Force Base (WPAFB). The facilities are owned by the United States Air Force and operated by the Asset INSTALLATION Management Division.

Building 479 will store containerized waste in 55-gallon drums and smaller containers in four storage bays of an enclosed building. An estimated 17,820 gallons in 55-gallon drums and smaller containers will be the maximum storage capacity at Building 479. A description of the wastes to be stored is provided in Section C, and the containment system is described in Section D.

The Contingency Plan is subject for review and amendment by the emergency coordinator (EC) if:

- Deficiencies in the plan are noted during its implementation.
- The facility permit is revised.
- The facility changes in design, construction, operation, or other circumstances develop that change the potential for fires, explosions, or releases of hazardous materials.
- The list of emergency coordinators or alternates changes.
- The list of emergency equipment changes.

Any significant change in the Contingency Plan that impacts a base organization or agency will be reviewed and discussed with them. New Contingency Plan documents will be prepared and distributed to the designated local, State, and Federal agencies. Facility personnel will be informed

of all changes in the plan, with copies available to all personnel and organizations responsible for its implementation.

Copies of the Contingency Plan for Building 479 storage facilities will be distributed to the following organizations prior to operation of the facility. Copies of any future changes or revisions to the plan will also be distributed to these organizations.

A. Base Organizations

<u>Organization</u>	<u>Office Symbol</u>	<u>Phone</u>
Base Civil Engineering (BCE) and Deputy BCE	88th ABW/CE CEG	937/257-6214
Asset INSTALLATION Management Division	88th ABW/CEA CEG/CEI	937/257-5627
Fire Emergency Services	88th ABW/CEF 788 TH CES/CEXF	937/257-3033
Operations Division	88th ABW/CEO CES/CEOE	937/257-8214
Security Forces	88th ABW/SFS	937/257-6841
Emergency Management Division	88th ABW/CEX 788 TH CES/CEXX	937/257-6865
Consolidated Command Post	88th ABW/CP	937/257-6314
USAF Medical Center: Bioenvironmental Engineering Hospital (emergency services)	88th ABW/SGPB 88th ABW/SGOPE	937/255-6815 937/257-2274
Base Safety Officer	88th ABW/SE	937/904-3391
Explosive Ordnance Division	88th ABW/CED 788 TH CES/CEXD	937/257-7789

<u>Organization</u>	<u>Office Symbol</u>	<u>Phone</u>
Weather Squadron	88th OSS/OSW	937/257-4270
Defense Reutilization & Marketing Office DEFENSE LOGISTICS AGENCY	DRMO/VBD DLA	937/255-4614

B. Facility Personnel

Hazardous Waste Program Manager, WPAFB
TSD Manager/Environmental Protection Specialist, Asset INSTALLATION Management
Division, WPAFB
~~DRMO~~ DLA-DS Hazardous Waste Contractor, WPAFB

C. Off Base Emergency Response Organization

Ohio EPA, Southwest District Office
401 E. Fifth Street
Dayton, Ohio 45402
937/285-6357
1-800-282-9378 (Emergency Response Number)

Montgomery/Greene County Local Emergency
Response Council (MGCLERC)
One Dayton Center
One South Main St., Suite 260
Dayton, Ohio 45402
(937) 223-6323

Police Department

◦ City of Beavercreek	937/426-1225
◦ City of Fairborn	937/754-3000
◦ City of Riverside	937/225-4357

Sheriff's Office

◦ Montgomery County	937/225-4357
◦ Greene County	937/376-5111
◦ Clark County	937/328-2560

Ohio State Patrol

◦ Montgomery County (Post 57)	937/890-1111
◦ Greene County (Post 29)	937/372-7671

G-2 Emergency Coordinators [40 CFR 264.52(d) and 264.55]

The following individuals are currently designated as emergency coordinators for Building 479:

Primary:

Gary Selby, HW Program Manager
Installation Management Division
7881 Kings Ridge Circle
Fairborn, Ohio 45324
Home Phone: 937/340-6340 684-5182
Office Phone: 937/257-3349
(0830-1700 M-F)

Alternate:

~~John Banford, Environmental Scientist~~ TERESA FINKE, HW TECHNICIAN
Installation Management Division
~~3192 Spillway Court~~ 726 BRUNSWICK DRIVE
~~Bellbrook, OH 45305~~ ENON, OH 45323
Home Phone: 937/848-9070 864-1700
Office Phone: 937/257-6482 5531
(0730-1600 M-F)

The emergency coordinator (EC) and his alternate are familiar with all aspects of this contingency plan, the operations and activities of the base, the location and characteristics of materials handled, the location of all pertinent records and the base layout. In addition, these coordinators have the authority to commit the resources necessary to carry out the contingency plan.

G-3 Implementation of the Contingency Plan [40 CFR 264.52(a) and 264.56(d)]

The decision to implement the Contingency Plan depends upon whether or not an imminent or actual incident could threaten human health or the environment. The purpose of this section is to provide guidance to the EC by providing decision-making criteria.

The Contingency Plan will be implemented in the following situations:

A. Fire and/or Explosion

- A fire causes the release of toxic vapors.
- The fire spreads and could possibly ignite materials at other locations on base or could cause heat-induced explosions.
- The fire could possibly spread to off base areas.
- Use of water or water and chemical fire suppressant could result in contaminated runoff.
- An imminent danger exists that an explosion could occur, causing a safety hazard because of flying fragments or shock waves.
- An imminent danger exists that an explosion could ignite other hazardous waste at the facility.
- An imminent danger exists that an explosion or fire could result in the release of toxic material.
- An explosion has occurred.

B. Spills or Material Release

- The spill could result in the release of flammable liquids or vapors thus causing a fire or gas explosion hazard.
- The spill could cause the release of toxic liquid or vapors.
- The spill can be contained on base, but the potential exists for groundwater contamination.
- The spill cannot be contained on base, resulting in off base soil contamination and/or ground or surface water pollution.

C. Floods

- The potential exists for surface water contamination.

Primary and secondary hazards of the waste classes stored at WPAFB are presented in Table G-1.

**TABLE G-1. PRIMARY AND SECONDARY HAZARDS OF WASTE GROUPS
STORED AT WRIGHT-PATTERSON AFB**

Waste Group	Primary Hazard	Secondary Hazard
Volatile Organics	Flammability	Toxicity
Semi-volatile Organics	Flammability	Toxicity
Metals	Toxicity	Reactivity
Corrosives	Corrosivity	Toxicity
Reactives	Reactivity	Toxicity
Ignitables	Flammability	Toxicity
Cyanides	Toxicity	Reactivity
Sulfides	Toxicity	Reactivity
Pesticides	Toxicity	Reactivity
Toxic Organics	Toxicity	Flammability
MIXED WASTE F005 SOLVENTS AND TRITIUM	TOXICITY	RADIOACTIVITY

G-4 Emergency Response Procedures

In the event of an emergency that results in fire, explosion, or accidental materials release, response activities will be initiated accordingly, following observation of the event. In the case that the plan is to be activated, the EC will take the following steps:

- Initiate containment and control procedures;
- Account for all facility personnel/visitors by comparing a head count with a sign-in/sign-out sheet or other appropriate mechanisms;
- Implement internal and external notification and provide authorities with an assessment of the situation, requesting assistance as necessary;
- Coordinate first-aid activities if injuries are involved;
- Evacuate the facility, if required, by implementing the evacuation plan;
- Identify the character of the emergency, whether it be a fire, an explosion, a release, or a combination of these;
- Determine, if possible, the exact source of the incident;
- Determine, if possible, the amount of material if a hazardous waste is released; and
- Determine, if possible, the real extent of the released materials.

The EC may accomplish some of the above tasks by observing site conditions and may gain additional information by reviewing the facility's records, including inventories and manifests. The EC has direct knowledge of the types of wastes and their location in Building 479 as well as a thorough knowledge of facility operations.

During an emergency, the EC would consider the following items, depending on the exact emergency situation:

- ° The wind direction would be established before the emergency response personnel approach the facility. Emergency personnel would approach the facility from an up-wind direction.
- ° The Bioenvironmental Engineer from the USAF Medical Center may be requested by the EC to obtain air samples to determine if there are any airborne toxic emissions.
- ° If there is a fire, the water from the fire-fighting effort would be contained and analyzed to evaluate whether it contains hazardous waste constituents. Containment can be accomplished by having the base Operations Division construct earthen dikes across the drainage area.
- ° Efforts would be made to ensure that fires, explosions, and/or releases are controlled to minimize their recurrence, and/or to reduce their spread into other areas of the base or off base. Since this facility is a storage facility, primary concern would be to isolate the different hazard class storage areas to reduce the spread of fire, explosion, or release. Hazardous waste released during the episode would be temporarily contained by earthen dikes until the waste material could be removed and placed into suitable containers for off base disposal.

The EC will make an assessment of the possible hazards to human health and the environment that may result from a fire, explosion, or release. The assessment will address both the potential direct and indirect effects of a fire explosion, or release such as:

- ° An incident that may release toxic, irritating, and/or asphyxiating gases into the atmosphere;
- ° An incident that may release a hazardous contaminant either directly into a nearby surface water feature or drainage ditch or indirectly by contaminating the water with fire-fighting foam used to control fires or heat-induced explosions.

SOUTHWEST DISTRICT

If the event is of a minor or controllable nature and presents no potential hazard to human health, to site operations, or to the environment, the EC will not implement the Contingency Plan but will ensure that control measures and post-emergency (cleanup) procedures are implemented and that the necessary reporting is completed. An example of not implementing the Contingency Plan would be the identification of a leaking drum within Building 479 where fluids have collected in a storage area. The drum would be appropriately repaired, overpacked, or the material would be transferred to a new drum and all spilled material would be cleaned up.

G-4a Notification [40 CFR 264.56(a)]

The Contingency Plan identified here is supplemented by Wright-Patterson's spill plan AND RADIATION PROTECTION MANUAL, which identifies several organizations on the base that can respond to and/or provide assistance in an emergency. These organizations are:

Mission Support Group Commander (88th MSG/CC)

- The Mission Support Group Commander or his deputy will act as On-Scene Coordinator for WPAFB when personnel are involved in responding to spills and fires. They would work with the EC to assure that other base organizations are informed when their assistance is required.

Installation Management Division (88th CEG/CEI)

- This office will assist in the environmental assessment of any release and provide personnel to serve in the role of primary and alternate emergency coordinator.

Fire Emergency Services (788th CES/CEXF)

- This organization provides emergency response services such as fire control and prevention. The Fire Chief or senior fire official at the site will act as the On-Scene Coordinator's representative when a fire or explosion has occurred or is likely to occur at the facility. They will assist the EC in assessing a fire's hazards.

Operations Division (88th CES/CEOE)

- This organization provides support for spill control, if needed, including heavy equipment operation, barrier erection, spill cleanup, and proper disposal. This department mans a 24-hour-a-day, 7-day-a-week service desk and distributes calls throughout the base in case of emergencies.

Security Forces (88th ABW/SFS)

- This organization provides security, crowd control, traffic control, and related activities in the event of an emergency that would require these services. The Security Forces would provide off base notification in the event of an emergency affecting nearby communities.

Emergency Management Division (88th ABW/CEX 788TH CES/CEXX)

- This organization responds to all emergencies on base and is a fundamental link between all the different branches that respond to emergencies. This branch also provides a communication link to the base commander to keep him apprised of emergencies requiring his attention.

USAF Medical Center (88th MDG/SGP)

- This organization provides both medical and environmental support to the facility operations. The base hospital emergency section has complete emergency medical capabilities, including ambulance and paramedic services for the facility. The environmental health and safety branch (Bioenvironmental Engineering) provides support in assessing the potential health effects of a hazardous material/waste release on both humans and the environment by monitoring and offering the capability of sampling water, air, and soil, if needed.

Consolidated Command Post (88th ABW/CP)

- This organization provides any necessary communication link between the base commander and all other base organizations.

Other Base Support Organizations

Other base organizations that can provide support services are:

- Explosive Ordnance Division (88th ABW/CED 788TH CES/CEXD)
- ~~Defense Reutilization and Marketing Office (DRMO)~~ DEFENSE LOGISTICS AGENCY (DLA)
- Weather Squadron (88th OSS/OSW)
- Base Security Office (88th ABW/SE)

Emergencies are immediately responded to at Building 479 by personnel at the facility. Should a phone be unreachable or unusable, nearby buildings (numbers 470 or 157) can provide a phone. Assistance is also available from the network of well qualified and knowledgeable base

organizations that are equipped to fulfill their specified roles. Because certain base organizations are called to assist certain emergencies, they are notified only when necessary. Specific organizations referred to as the core response team (CRT) respond whenever the Contingency Plan is implemented. The core response team includes: Operations Division, Base Civil Engineering Office, Fire Emergency Services, Asset INSTALLATION Management Division, and Bioenvironmental Engineering.

The internal notification procedures for enacting the Contingency Plan to respond to material releases and other emergencies are as follows:

- The person observing the problem notifies the Fire Department at 911. This initial notification is completed after all facility personnel on the premises have been notified in accordance with the facility evacuation plan.
- The person notifying the Fire Department will provide the following information:
 - Name and telephone number of caller
 - Time and location of emergency
 - Type of emergency (i.e., fire, spill)
 - Time of report
 - Access route (consider the wind direction)
- The Fire Department responds initially and calls in other organizations as necessary.
 - Operations Division (88th ABW/CEO CES/CEOE)
 - Base Civil Engineering Office (88th ABW/CE CEG)
 - Fire Emergency Services (88th ABW/CEF 788TH CES/CEXF)
 - Asset INSTALLATION Management Division (88th ABW/CEA CEG/CEI)
 - Bioenvironmental Engineering (88th MDG/SGPB)
- The EC, together with the assistance of available members of the above CRT, mobilizes spill response team personnel and any necessary equipment. Should the emergency be a fire, the base fire chief will be the On-Scene Coordinator before the EC arrives. Based on the assessment by the EC and other core response organizations, additional response organizations may be called.

- If an emergency is of sufficient magnitude to require additional assistance, the base Emergency Management Division (~~88th ABW/CEX~~ 788TH CES/CEXX) is contacted by the service call desk or the EC and they are requested to respond.
- If the emergency is a chemical spill, the EC, an Asset INSTALLATION Management Division (~~88th ABW/CEA-CEG/CEI~~) representative, and the base Bioenvironmental Engineer (88th MDG/SGPB) will assess the environmental impact of a release. This assessment may include collecting samples and submitting them to a laboratory for analysis to determine if there are any hazardous constituents present.
- The base hospital (88th ABW/SGOPE) will be contacted to request an ambulance to transport injured personnel for treatment, if needed.
- In the event that the emergency is a fire identified by base facility personnel, the fire alarm can be pulled and the nearest available fire station would immediately dispatch the needed equipment and personnel to the facility.

G-4b Identification of Hazardous Materials [40 CFR 264.56(b)]

Personnel discovering a spill or leak will immediately identify the character, exact source, amount and area/extent of a release. This will be accomplished by visual observation and/or review of records.

Since containers will be stored in areas according to their hazardous characteristics, the contents of a drum can generally be determined through a check of the operating record. However, sampling and analysis may be conducted as necessary.

G-4c Hazard Assessment [40 CFR 264.56(c) and (d)]

The EC will assess the possible direct and indirect hazards to human health or to the environment that may result from a chemical release, fire, or explosion.

The following information will be obtained in order to assess the magnitude and potential seriousness of the spill or release:

- Time and type of incident,
- Name and quantity of material involved, to the extent known and the rate of release, (based on database inventory)

- Direction of the spill, vapor, or smoke release and fire and/or explosion possibility (e.g., the effects of any toxic, irritating, or asphyxiating gases that may be generated, or the effects of any hazardous surface water run-off from water or chemical agents used to control fires).
- Area and material involved and the intensity of the fire or explosion.
- Toxicological hazards, and
- The extent of injuries, if any.

G-4d Control Procedures [40 CFR 264.52(a)]

The initial response to any emergency will be to protect human health and safety and then the environment. Identification, containment, treatment, and disposal assessment will be the secondary response.

The individual initially discovering any spill will immediately initiate the following spill response actions:

- Activate available alarms to alert facility personnel.
- Notify the base Fire Department at 911

The individual discovering the spill will:

- Secure the spill site to prevent unauthorized entry.
- Respond, within their capability, with sufficient personnel and equipment to effect containment, cleanup and restoration of the landscape due to spills of hazardous substances.
- Request assistance from the base (call Police/Fire/Medical - 911) if spill exceeds personnel and/or equipment capability.
- Evacuate the area if appropriate.
- Support cleanup efforts as directed by the EC.

Fire and/or Explosion

Small isolated fires which are obviously controllable with a portable fire extinguisher would be handled by the employee discovering the fire. Once the fire has been extinguished, a fire check by the base fire department would be conducted to assure it was extinguished properly, and to assess the potential for recurrence. Control of other fires or explosions would be the responsibility of the base fire department with input provided by the EC.

Buildings 478/479 can easily be accessed by firefighting and other emergency vehicles and equipment via Thirteenth Street. The Wright-Patterson AFB Fire Department is available 24-hours-a-day to respond to any emergency. Until the Fire Department personnel arrive, the fire containment effort will be carried out by building personnel. The Fire Chief will determine when the fire has been controlled and consult with the CRT and EC to determine when activities in the area can resume.

Additionally, Buildings 478/479 have an automatic fire suppression system. The fire suppression system for Buildings 478 and 479 was designed per the requirements of NFPA 30, "Flammable and Combustible Liquids Code." The fire suppression media will be a foam solution consisting of 3% alcohol foam concentrate and 97% water. The system has a supply density of 0.3 gpm per square foot with enough capacity to provide a 15 minute foam supply over a 2,000 square foot area.

The foam system is located in Building 478 in an equipment room with 2-hour fire rated walls, with access to the room from the outside of the building only. The fire suppression system is an air pressurized, dry pipe system. When a sprinkler head opens, air pressure is released, causing the dry pipe valve to open and fill the sprinkler piping system. The foam solution is then dispersed through the open sprinkler head(s) to Buildings 478 and 479. Standard sprinkler heads are used and are located just below each building's roof structure with a maximum spacing of 100 square foot per head. The sprinkler heads will activate at 165° F. Water flow will activate an audible alarm bell and send a signal to the building's fire alarm panel.

A fire department connection to the foam system and a fire hydrant is installed at the intersection of 13th Street and the Access Road to the building. Appendix B-1 provides specifications on the fire suppression system.

A fire alarm near the door of Building 478, when pulled, automatically informs the base Fire Department of an emergency and dispatches the nearest available response team with fire-fighting equipment to the facility. There are three fire stations on the base, with the nearest station, No. 3,

approximately 1/4 mile from the facility. This proximity means that emergency response to the facility can be very rapid. Initial response from fire station No. 3 would include two pumpers equipped with 1,000 feet of hose and 1,000-gallon-per-minute pumping capacity. These are known as P-22 vehicles. Each contains a 600-gallon tank of water. One pumper carries 55 gallons of Aqueous Film Forming Foam (AFFF) and the other carries 50 gallons of Biosolve. Initial response would also be provided by one rescue vehicle, and one hazmat vehicle with equipment trailer and decontamination capabilities. If additional response is needed, the following equipment would respond from other base fire stations: one 95-foot aerial truck, two command vehicles, two pumpers, and one crash truck with 500 lbs of dry chemical and 3,300 gallons of water. The crash truck also carries 500 gallons of AFFF.

General containment and control procedures that will be followed during a fire or explosion emergency include:

- Evacuate immediate area and any potentially effected surrounding areas;
- Isolate affected area with temporary barricades and with signs to prevent entry of unauthorized personnel;
- Don appropriate personal protective equipment based on type of incident;
- Isolate the affected area from other wastes to reduce the spread or recurrence of fire, explosion, or release;
- Stop the release of any hazardous materials;
- Temporarily contain hazardous waste released with absorbents, earthen dike, or other equivalent containment materials and equipment (using compatible materials to the greatest extent possible), until removal and cleanup can be conducted;
- Contain water or fire-fighting agent to analyze for hazardous waste constituents;
- Obtain appropriate containers in good condition for storing or overpacking released or contaminated materials.

Release of Hazardous Waste to Air, Land, or Water

Small spills or unplanned releases, which are obviously controllable, will be handled by the personnel discovering the incident. The base Asset INSTALLATION Management Division will be notified and the cleanup inspected.

The person reporting the spill should identify the location, material spilled, and amount. The notifier should then return to the scene and within their capability:

- Halt the discharge of the spilled substance, and
- Contain the spilled substance by placing dikes or temporary barrier around the spill.

All other spills or unplanned releases will be handled by the Asset INSTALLATION Management Division and Operations Division as directed by the EC.

General containment and control procedures that will be followed during a spill or unplanned release emergency include:

- Evacuate immediate area and any potentially affected surrounding areas;
- Isolate affected area with temporary barricades and signs to prevent entry of unauthorized personnel;
- Make sure that area is properly vented, if possible;
- Don appropriate personal protective equipment based on type of incident;
- Isolate the affected area from other wastes to reduce the risk of fire, explosion, or other reaction;
- Stop release of hazardous material either through righting spilled containers, placing damaged containers in overpack drums, or contents of damaged drums in new containers (ensuring compatible materials are used);
- Temporarily contain released hazardous waste materials with hazard pillows, earthen dikes, or other equivalent containment equipment, until removal and cleanup can be conducted;
- Obtain appropriate containers in good condition for released materials.

Special attention will be paid to the prevention of mixing incompatible wastes during an emergency. Isolation of wastes from other incompatible wastes will be accomplished either through physical separation of the wastes or use of temporary containment measures (hazard pillows) between incompatible wastes. Temporary signs will be erected cautioning against improper

handling. These measures will stay in place until cleanup is completed, and the facility is returned to normal operating status.

If the chemical spill is not contained within a bermed or spill containment area, then an area of isolation will be established around the spill. The size of this area will generally depend upon the size of the spill and the chemicals involved. If the spill results in the formation of a toxic vapor cloud (by reaction with surrounding materials or by outbreak of fire) and its release (due to high vapor pressures under ambient conditions), then further evacuation efforts will be enforced. An area at least 500 feet wide and 1,000 feet long will be evacuated downwind if volatile materials are spilled.

When any spill occurs, only those persons involved in overseeing or performing emergency operations will be allowed within the designated hazard area. If possible, the area will be roped or otherwise blocked off.

The EC or a designated Asset INSTALLATION Management Spill Team representative is required to notify the following agencies if a reportable quantity of hazardous waste has been spilled or released outside a contained area, or if a fire or explosion has occurred that could threaten human health or the environment, or whenever the Contingency Plan is implemented:

- National Response Center 800/424-8802
- Ohio EPA Emergency Response 800/282-9378
- Ohio EPA Southwest District Office 937/285-6357
- Montgomery/Greene County Local Emergency Response Council 937/223-6323 (day)
1-800-762-2343 (after hours
c/o Montgomery County Sherriff)

The following additional agencies must be notified of any release to a waterway:

- U.S. EPA Region V 312/353-2197
- U.S. Coast Guard 216/522-3983

For releases affected the Rohrer's Island-Dayton Ground Water Recharge Facility notify:

- Superintendent of the Division of Supply and Treatment 937/237-0020

- Mad River Well Field 937/253-5568
or
937/443-4905 (24 hour number)
- Water Director 937/443-3725
- Emergency Service 937/443-4905
(after duty hours)

Additional emergency response organizations would be contacted by WPAFB Security Forces if a release, spill, fire, or explosion has occurred that would affect off base personnel:

Police Department

- City of Beavercreek 937/426-1225
- City of Fairborn 937/754-3000
- City of Riverside 937/225-4357

Sheriff's Office

- Montgomery County 937/225-4357
- Greene County 937/376-5111
- Clark County 937/328-2560

Ohio State Patrol

- Montgomery County (Post 57) 937/890-1111
- Greene County (Post 29) 937/372-7671

Spill Response Assistance

- Montgomery/Greene County Local Emergency Response Council 937/223-6323

City of Dayton

- Wastewater Treatment Plant 937/268-9511

If the EC or a designated Asset INSTALLATION Management Spill Team representative believes that evacuation of surrounding base facilities is required, he or his designee will immediately notify the appropriate building or property manager. His designee may be a representative of the base Security Forces (88th ABW/SF) or of the base Emergency Management Division (~~88th ABW/CEX~~ 788TH CES/CEXX). Should a situation arise in which off base facilities

need to be notified for evacuation purposes, the base Security Forces would notify off base agencies simultaneously by using their inter-city radio network.

If the EC believes that off base or outside emergency response capabilities are needed to respond adequately to an emergency (such as spills) at the facility, he or a designated Asset INSTALLATION Management Spill Team representative will contact the Montgomery/Greene County Local Emergency Response Council for assistance (One Dayton Center, One South Main Street, Suite 260, Dayton, Ohio 45402; 937/223-6323).

When the EC makes a determination that the Contingency Plan is to be implemented and initiates response actions including notifying the specified external (off base) organizations, he reports the following information:

- Name and telephone number of the responder,
- Name and address of the storage facility,
- Time and type of incident (for example, fire, release)
- Common chemical name and quantities of each material, if known,
- Extent of injuries, if any, and
- Possible hazards to human health or the environment for both inside and outside the facility.

Most waste spills and leaks are easily contained within the depressed floor area and spill containment basin in Building 479, and can be collected with absorbent materials or pumped into a container. Spills in the containment trays in Building 479 can be collected with absorbent materials or pumped into a container. The contaminated area can then be flushed with water, or some other appropriate solvent. The rinseate and any contaminated absorbent will also be containerized for disposal.

G-4e Prevention of Recurrence or Spread of Fires, Explosions, or Releases [40 CFR 264.56(e)]

Procedures to be followed to prevent the spread of fires, explosions, or releases were discussed in Section G-4d, Control Procedures [40 CFR 264.52(a)].

Within 30 days after the conclusion of a spill removal action, the ~~Asset~~ INSTALLATION Management Division will prepare a written completion report, which will assess the cause of the fire, explosion, or spill. This report will also indicate remedial actions that will be taken to prevent any recurrence of the hazardous situation.

G-4f Storage and Treatment of Released Material [40 CFR 264.56(f) and (g)]

Personnel responsible for the removal of the hazardous wastes (either base emergency response personnel or a contractor) shall wear the necessary protective equipment before proceeding to remove the released waste material. Work zones will be identified to prevent the spread of hazardous wastes and to maintain personnel safety.

The contaminated zone will encompass whatever surface area is contaminated by the hazardous waste release. Protective equipment and clothing will be worn by personnel when in this area.

Cleanup of released material will take place immediately after the release has been stopped or in the case of the fire, when the fire has been properly extinguished and the threat of recurrence is over. Cleanup procedures within 479 will include:

Small Liquid Spills

- Place absorbent on spill and sweep up and remove with brooms placing into 55-gallon drums
- Wash and brush affected area with water and appropriate detergent (based on contaminant)
- Rinse with water
- Drum all rinseate
- Decontaminate all equipment used in cleanup

Large Liquid Spills

- Pump released material with a diaphragm pump into 55-gallon drums

- At completion of pumping, place absorbent on any remaining spill residue and sweep up and remove with brooms and shovels and place in 55-gallon drum
- Wash and brush effected area with water and appropriate detergent (based on contaminant)
- Rinse with water
- Drum all rinseate
- Decontaminate all equipment used in cleanup

Solid Spills

- Sweep up and remove with brooms and shovels and place in clean, good-condition 55-gallon drums
- Wash and brush effected area with water and appropriate detergent (based on contaminant)
- Rinse with water
- Drum all rinseate
- Decontaminate all equipment used in cleanup

Cleanup activities will proceed as follows:

- Readily identifiable wastes will be cleaned up first. It may be necessary to take samples of released wastes to ensure that the cleanup effort does not mix incompatible wastes. A laboratory spill kit is available at the facility to identify characteristics of spilled material. Wastes will be placed in available empty 55-gallon drums at Building 479. Each of the drummed wastes will be analyzed for hazardous waste characteristics or specific waste components if the source is known. (Note: ensure drums are compatible with materials/wastes to be stored.)
- The drum(s) of contaminated material, along with equipment and protective clothing used during cleanup, will be isolated at a location within the facility or it will be immediately removed by the disposal contractor.
- Samples may be taken from surface waters, drainage ditch, and any soil that may have been exposed to the release. Samples will be analyzed for the characteristics that identify hazardous wastes (i.e., ignitability, corrosivity, reactivity, and TCLP). A sufficient number of representative samples will be taken to determine the extent of contamination. Samples will be taken repeatedly after each cleanup action until

the samples indicate that all the contaminate is removed and the samples show background levels.

- ° Based upon the sampling results, contaminated materials would be removed and placed in drums. If the amount of soil removal becomes extensive, it may be removed by truck and taken directly to a licensed disposal facility.
- ° After cleanup operation, the facility's emergency equipment will be reactivated and resupplied. The fire alarm will be reactivated, fire extinguishers recharged, and the quantity of spill supplies and equipment will be renewed.

To prevent contamination of the entire facility, decontamination procedures will be employed. Decontamination will be completed for personnel and any contaminated equipment. Neither personnel nor equipment may exit from a contaminated area without going through decontamination.

Decontamination will proceed as follows:

- ° Personnel leaving a contaminated area must remove their protective clothing and safety equipment. A contaminated clothing drum will be established near the work area.
- ° Contaminated equipment, including tools and any other items used by personnel will be decontaminated or disposed of as a hazardous waste. Decontamination can be accomplished by washing the equipment used with a strong detergent wash or other recommended decontamination agent. Larger equipment, such as forklifts, will be cleaned either with a detergent wash or a portable jet steam cleaner. The effectiveness of the decontamination process will be evaluated by taking wipe samples from the equipment and analyzing them for hazardous constituents in which they may have come in contact. If the samples display hazardous constituents, the equipment will either be redecontaminated or disposed as a hazardous waste. Regardless, no equipment, unless completely decontaminated, will be returned to the facility inventory for use.
- ° The liquid fraction of the water or steam wash may be flushed to the base sanitary sewer, if discharge standards are met, and the solid residue from these operations will be analyzed and disposed in accordance with RCRA regulations. The solvent wash, if used, will be disposed of as a hazardous waste.
- ° If the decontamination process for a piece of equipment proves to be uneconomical, then the contaminated equipment will be disposed of as a hazardous waste.

- Any containers damaged during the emergency will either be decontaminated and disposed at an appropriate sanitary landfill or will be disposed as a hazardous waste. If the containers are salvageable, they will be repaired, decontaminated, and brought back into service.

G-4g Incompatible Waste [40 CFR 264.56(h)(1)]

The EC will ensure that no wastes in the affected area(s) that may be incompatible with the released material are treated, stored, or disposed of until cleanup procedures are completed. Containers stored at Building 479 are segregated by waste type and stored in areas containing similar waste types. Containment of spills in each area either by trenches or containment pans will ensure that incompatible wastes are not mixed.

G-4h Post-Emergency Equipment Maintenance [40 CFR 264.56(h)(2) and (i)]

After an emergency event, all emergency equipment listed in Section G-5 will be reactivated, resupplied, replaced, and/or decontaminated so that it will be fit for its intended use. The fire alarm will be reactivated, fire extinguishers recharged, and the quantity of spill supplies and equipment will be renewed. An inspection of all safety equipment will be conducted as discussed in Section F-2 before operations are resumed (40 CFR 264.56(i)). The Regional U.S. EPA Administrator and State and local authorities will be notified that post-emergency maintenance has been performed and operations will resume.

G-4i Container Spills and Leakage [40 CFR 264.56(g) and 264.171]

Refer to Section G-4d for a discussion of emergency response procedures for container spills and leaks.

G-4j Tank Spills and Leakage [40 CFR 264.194(c) and 264.56(g)]

No tanks will be utilized at this facility.

G-4k Waste Piles Spills and Leakage [40 CFR 270.14(b)(17), 264.252 and 264.253]

No waste piles will be maintained at this facility.

G-4l Surface Impoundments, Spills, Leakage, and Sudden Drops [40 CFR 270.14(b)(7), 264.222 and 264.227]

No surface impoundments will be maintained at this facility.

G-4m Landfill Leakage

This facility will not maintain a landfill for hazardous waste.

G-5 Emergency Equipment [40 CFR Section 264.52(e)]

In Building 479, three ABC fire extinguishers AND ONE CLASS D FIRE EXTINGUISHER are available (Table G-2 presents the current emergency equipment list). Two fire hydrants are within 800 feet of Building 479. The water lines and/or hydrants can be tapped by the base's Fire Department to provide adequate volume and pressure to supply a water hose stream if necessary.

One emergency eyewash/shower is located at Building 479.

Equipment for containing and cleaning up spilled hazardous waste will be maintained at Building 479 at all times. In addition, each generating point and accumulation point will obtain and maintain appropriate fire control and spill control equipment. The equipment is sufficient for minor spills or fires. For a major spill or fire, the base spill plan would be activated.

Protective clothing and equipment are provided to protect employees during normal and emergency operations. Facility personnel are required to wear protective clothing, chemical gloves, and a full face-piece shield when receiving, moving, or shipping hazardous waste items.

First aid supplies are available in Building 479. Below is a partial listing of equipment that would be available through base organization support.

Civil Engineering Fire Emergency Services (88th ABW/CEF 788TH CES/CEXF)

The following equipment is available for handling both fire and hazardous material spills incidents:

- Fire trucks with the necessary pumps, hoses, and ladders to apply water, Biosolve, Dry Chemical, and foam sprays;
- Fire extinguishers;
- Personal safety equipment, including fire-resistant clothing, self-contained breathing apparatus, boots, and gloves,

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- Limited leak repair capability for drums and tanks,
- Absorbent material and non-sparking tools for cleanup of flammable materials, and
- Communication equipment, both telephone and radio.

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TABLE G-2. FACILITY EMERGENCY EQUIPMENT LIST

Below is a current inventory of emergency equipment that is available at the hazardous waste storage facility 479. Equipment and supplies are reordered as necessary to maintain this minimum inventory.

	Item	Quantity	Purpose
1. Spill Control	Hazard pillows	10 pillows	For absorbing chemical leaks or spills
	Speedie Dry	5 50# bags	Absorbs oil, fuel, and some chemicals
	Laboratory Spill Kit	1	Testing caustic, acid & solvent spills
	Empty drums	5-55 gallon (minimum)	For the storage of material from leaking drums and spill situations
	Hand tools: shovel, bung wrench, etc.	1 each	For both routine operations and spill situations
2. Safety and Emergency Equipment	Eye wash and shower	1	To flush the eye or whole body with water in aces of inadvertent contact with chemicals
	Telephone	1	Located outside the facility near the front door, it provides communication with other base facilities
	Fire extinguishers	3 4	Both ABC grade fire extinguishers are near the two exterior doors for the purpose of all small fires except water-reactive materials. A CLASS D FIRE EXTINGUISHER IS FOR COMBUSTIBLE METALS.
	Fire alarm	1	Activation of alarm notifies Fire Station No. 4 in Area B of the base
	Personnel Protective Equipment	(Required Minimum Quantities)	Necessary to protect the human body exposure to hazardous chemicals
	Respirator	2	
	Surgical gloves	20 pairs	
	Face shield	1	
	Hand gloves	3 pair	
	Goggles	2	
	Plastic Apron	2	

Civil Engineering Operations Division (88th ABW/CEO CES/CEOE)

The following equipment is controlled and supplied by this branch for the purposes of containment and removal of hazardous material.

- Heavy equipment such as backhoes, dump trucks, forklifts, bulldozers, and cranes for both the containment and removal of hazardous materials,
- Absorbent materials, sand, shovels, brooms, and containers for containment and removal of hazardous materials on land,
- Absorbent booms for the containment of floating hazardous materials (e.g., fuel oil) on surface waters,
- Communication equipment, both telephone and radio, and
- Personal safety equipment, including boots, gloves, disposable paper suits, and rain suits.

G-6 Support Agreements [40 CFR 264.52(c), 264.53(b), and 264.37(b)]

The Asset INSTALLATION Management Division (88th ABW/CEA CEG/CEI) has made contact with the base agencies and Ohio EPA that may be called in an emergency situation. Each of these agencies will always have a current copy of this Contingency Plan and relevant background information. Letters of notification of any changes to the Contingency Plan will be on file at WPAFB. The notification procedures and arrangement with off base emergency response organizations are described in Section G-1. Copies of the approved Contingency Plan will be provided to and reviewed with the organizations and facility personnel listed in Section G-1. No copies will be provided to off base hospitals or fire departments since the base furnishes these services for emergency assistance.

G-7 Evacuation Plan

If an evacuation from Building 479 is necessary, the following actions will be taken:

- Notify facility personnel of the emergency.

Since the facilities are small, it is possible to notify all the personnel by voice communication. If workers are isolated, they will have a two-way radio for communication with the other worker(s) on the premises. All personnel should

move to a location outside and upwind of the facilities. An accounting of all facility personnel should be made at this time.

- Notify the base Fire Department at 911.

The emergency coordinator (or trained alternate) would notify the BCE service call desk, (937/257-6764) which is operational 24-hours-a-day, 7-days-a-week, using either the facility's phone or a phone in a nearby building. If the emergency situation does not permit notifying the service call desk, the fire alarm box near the entrance of Building 478 should be pulled. When pulled, the nearest available base fire station will be dispatched to the storage facility. Immediate information required by the service call desk is as follows:

Name and telephone number of caller
Time and location of emergency
Type of emergency; fire, spill, injury
Time of the report
Access route (i.e., consider wind direction for toxic emissions or fire)

The BCE service call desk will notify the core emergency response team for spills and fires. They will notify other base organizations for support as needed. The emergency coordinator will act as the primary contact for informing nearby facilities that may be affected by a release from the storage facility. If base Emergency Management Division (88th ABW/CEX 788TH CES/CEXX) becomes involved in the incident, they would have the responsibility of notifying the potentially affected facilities. The BCE service call desk will act as the secondary contact for informing these nearby facilities. The contact for each of the surrounding facilities will be their property building managers, a current list of whom is kept at both the service call desk and in the Asset INSTALLATION Management Division (88th ABW/CEA CEG/CEI).

- Stop facility operations.

Facility personnel will make an attempt to shut off any electrical equipment and the ventilation system.

- Refer to Figure G-1 for designated evacuation routes. During an emergency event, the primary evacuation route from Building 479 storage facility will be to exit through the north gates.

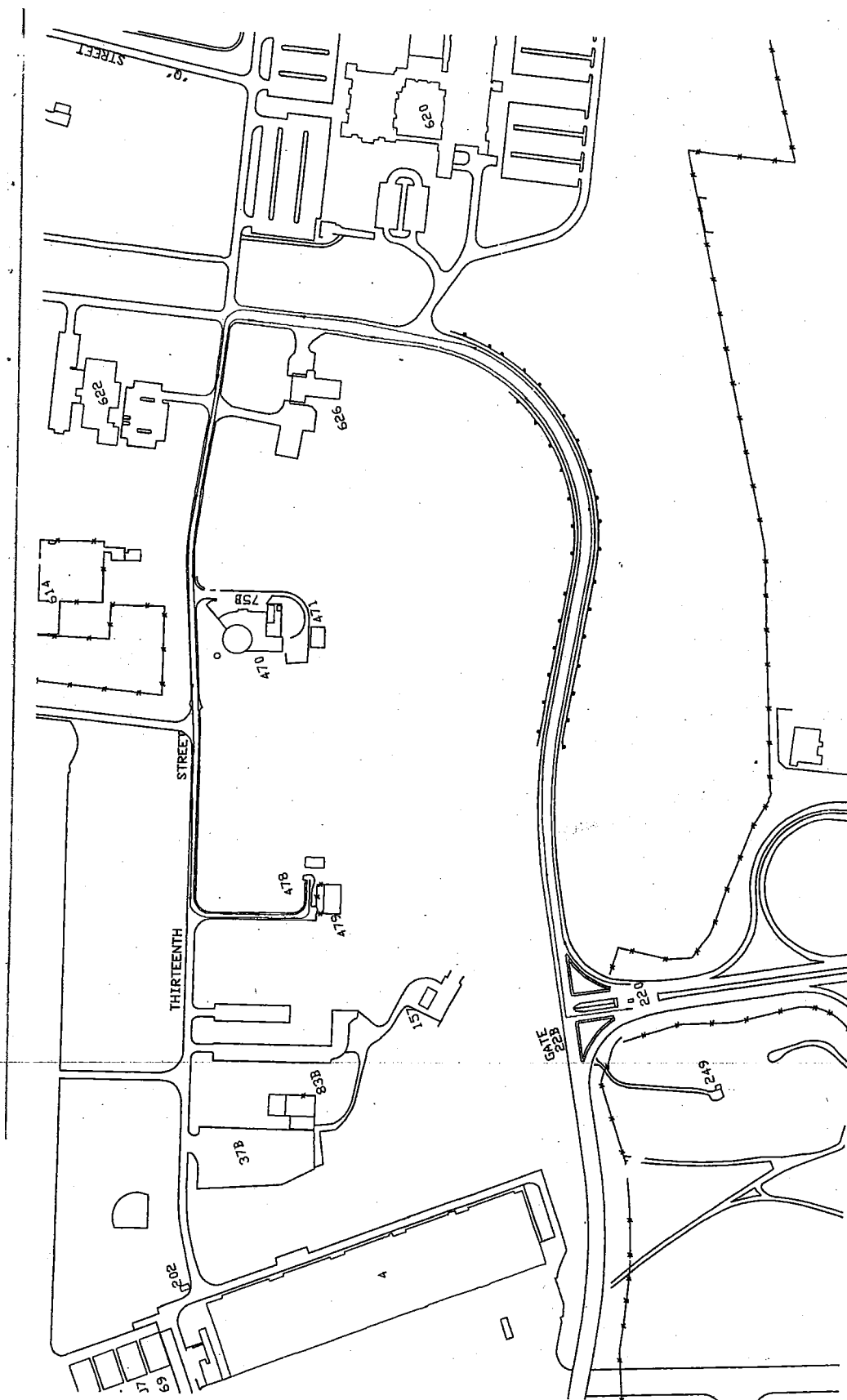


Figure G-1. Evacuation Routes from Buildings 478 and 479

The facility access road off of Thirteenth Street is the primary evacuation route. The terrain around the facility is primarily open grassy field so it would be possible to leave the facility (secondary route) from several directions.

- Evacuate affected base and off base areas.

The EC or a designated Asset INSTALLATION Management Spill Team representative would contact the base Security Forces and request that the off base organizations be contacted as necessary. The off base police departments, county sheriff, and the Ohio State Patrol would establish necessary roadblocks and initiate any necessary evacuation of potentially affected communities. In addition the MGCLERC would be contacted.

The EC will ensure that the following conditions are satisfied prior to resumption of operations in the affected area(s) of Building 479. In addition, the EC will notify both the director of the Ohio EPA and any affected base facility that Building 479 will resume operations and that corrective actions have been completed. The corrective cleanup measures of identification, removal, storage, and arrangements for disposal of released materials must be complete in the affected areas prior to initiation of operations (such as receiving waste) that may be incompatible with the released material. Wastes moved during the cleanup effort will be relocated into their proper hazard class areas. The facility's utilities, emergency equipment, and spill supplies will be restored to the proper levels required for operation of the facility. The facility operating record will be revised to reflect the current volumes of wastes stored at the facility.

The EC will determine the need for evacuation of additional personnel in the vicinity of Building 479.

All personnel are trained in evacuation procedures and means of exit from their respective work areas.

G-8 Required Reports [40 CFR 264.56(j)]

Any emergency event (e.g., fire, explosion) that requires implementation of the Contingency Plan will be reported. The following incidents require that an Environmental Incident Report (Figure G-2) be filed:

- All fires,

REPORT #

ENVIRONMENTAL INCIDENT REPORT

Subject (spill, noncompliance, administrative):

1. Name of Installation: Wright-Patterson AFB Reported By:

2. Incident Report: Initial ☐ Final ☐

3. Date/Time of Incident:

4. Severity of Incident: Major (over the RQ) ☐ Minor ☐

5. Location of Incident and Organization:

6. Type and Estimated Amount of Pollutant:

7. Cause of Incident/Observations:

8. Damage Impact on the Surroundings Including Fish and Wildlife:

9. Corrective Action Taken to Eliminate Pollutant and Source of Pollutant:

10. Corrective Action to Prevent Re-occurrence:

11. Assistance Required (Organizations Involved):

12. Estimated Completion Date of Remedial Actions:

13. Estimated Cost of Remedial Actions (include labor, disposal and material costs etc.): \$.00

14. Anticipated or Actual Reaction by the News Media and Public:

15. Number of Injuries:

16. Agencies Notified:

<input type="checkbox"/>	Agency	Time	Confirmation #
<input type="checkbox"/>	Dayton Rohrer's Island		
<input type="checkbox"/>	Ohio EPA		
<input type="checkbox"/>	National Response Center		
<input type="checkbox"/>	Other		
<input type="checkbox"/>	AFOSI (Coordinate with organization commander prior to notification)		
<input type="checkbox"/>	Not Reportable		

17. Spill Plan/Response Problems:

Distribution: 88 ABW: CC, CEA-1 CEI, CEA-PA PA, CE, CEF CEXF, CEX CEXX, JAE, SE,
 HQ AFMC: CEAN, JAM AFCEC

CONTACTS:

Organization Commander/Director: _____

Figure G-2. Environmental Incident Report

- Chemical spills of more than 5 gallons (or smaller volumes if highly toxic materials are involved),
- All injuries except minor cuts and bruises,
- All burns and chemical irritations,
- All equipment damage due to malfunction or operating error, and
- All "near misses" of the above that could have had serious consequences.

Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) requires that notification be made to the National Response Center (800/424-8802) whenever there is a release of hazardous substance into the environment in amounts equal to or greater than the reportable quantity. Notification of the Local Emergency Planning Committee is also required.

Any emergency event requiring implementation of the Contingency Plan will be reported in writing within 15 days to the Director of the Ohio EPA and Regional Administrator of U.S. EPA, Region V:

Reports will include the following:

- Name, address, and telephone number of the storage facility owner or operator,
- Name, address, and telephone number of the facility,
- Date, time, and type of incident (for example, fire, chemical release),
- Name and quantity of material(s) involved,
- The extent of injuries, if any,
- An assessment of actual or potential hazards to human health or the environment, where applicable,
- Estimated quantity and disposition of recovered material that resulted from incident, and
- Additional information that the Director of Ohio EPA or U.S. EPA Region V Administrator may require.

SECTION H

PERSONNEL TRAINING

The information contained in this section outlines training programs for personnel who are involved with operation of WPAFB's hazardous waste permit at Building 479, in accordance with 40 CFR Sections 264.16 and 270.14(b)(12) and OAC 3745-54-16. Personnel training related to generator activities is not included in this permit application, however it is addressed in WPAFB's Hazardous Waste Management Plan.

H.1 Outline of Training Program [40 CFR 270.14(b)(12)]

Facility personnel who handle hazardous wastes must successfully complete a program of classroom instruction and/or on-the-job training in order to prepare them to operate and maintain the facility in a safe manner and ensure the facility's compliance with 40 CFR 264. Initial and annual refresher training will be provided by a variety of means, including outside specialized vendors, on-site training classes and an on-site computer based training class. An outline of the training program given both initially and annually to personnel who manage or handle hazardous waste at Building 479 is presented in Table H-1.

H.1a Job Titles and Duties [40 CFR 264.16(d)(1) and (2)]

The duties, responsibilities, and qualifications of the positions directly responsible for handling hazardous wastes are as follows:

Position Title: ~~Field Compliance~~ HAZARDOUS WASTE PROGRAM Manager/TSD
Facility Manager (Vacant)

Responsibilities: Oversees the operation of the storage facility, including oversight of contractor waste management practices within the facility. Interprets regulations and develops necessary operating procedures as required. Determines need for modifications to existing facilities and

initiates action to improve economy, efficiency, safety, and physical security of operation. Develops appropriate requirements and initiates requests for work. VERIFIES THE CONTRACTOR-PREPARED MANIFEST AND SHIPPING PAPERS AND DOT MARKINGS PACKAGING AND LABELING REQUIREMENTS. MONITORS CONTRACTOR COMPLIANCE WITH THE CONTRACT AND ALL ENVIRONMENTAL AND SAFETY REQUIREMENTS DURING REMOVAL.

ENSURES THAT RCRA RECORDKEEPING REQUIREMENTS ARE COMPLIED WITH (E.G., FACILITY OPERATING RECORDS, TRAINING RECORDS, INSPECTION SCHEDULE/LOG, CONTINGENCY PLAN, HW MANAGEMENT REPORT, AND UNMANIFESTED WASTE REPORT). ENSURES THAT LOCAL SUPPORT AGREEMENTS WITH HOST AND/OR SURROUNDING COMMUNITIES ARE IN EXISTENCE. PREPARES THE HAZARDOUS WASTE FACILITY PERMIT APPLICATIONS. ENSURES THAT AN INTERNAL SPILL CONTINGENCY PLAN IS PREPARED AND COMPLIED WITH FOR BUILDING 479.

Executes required actions if a spill occurs and ensures personnel are trained to act during his THEIR absence. Contains and cleans up spills for which the Installation Management Division has the capability. Decontaminates and replenishes spill equipment and supplies. Ensures spill incident reports are prepared in accordance with applicable regulations.

Position Title: Hazardous Waste Program FIELD COMPLIANCE Manager/Assistant TSD Facility Manager (~~Gary Selby~~)

Responsibilities: PROVIDES TECHNICAL SUPPORT TO THE HAZARDOUS WASTE PROGRAM. ENSURE THAT HAZARDOUS WASTE IS PROPERLY CHARACTERIZED AND MANAGED FOR TRANSPORTATION AND DISPOSAL IN ACCORDANCE WITH ESTABLISHED REGULATION, LAWS AND THE HAZARDOUS WASTE STORAGE PERMIT. PROVIDES CONTRACTOR OVERSIGHT AS REQUIRED.

Responsible for hazardous waste training program for personnel who are involved with operation of WPAFB's hazardous waste permit. ~~Verifies the~~ ASSISTS PROGRAM MANAGER WITH VERIFICATION OF contractor-prepared manifest and shipping papers and DOT markings

labeling requirements. ~~Monitors contractor compliance with the contract and all environmental and safety requirements during removal.~~

Contacts host personnel, customers, generating activities, facility personnel, and local environmental personnel to coordinate requirements of environmental policies and directives.

~~Ensures that RCRA recordkeeping requirements are complied with (e.g., facility operating records, training records, inspection schedule/log, contingency plan, HW management report, and unmanifested waste report). Ensures that local support agreements with Host and/or surrounding communities are in existence. Assists in the preparation of hazardous waste facility permit applications. Ensures that an internal spill contingency plan is prepared and complied with for Building 479.~~

Position Title: ~~Environmental Scientist (Vacant)~~

~~Responsible for providing technical support to the Hazardous Waste Program. Ensure that hazardous waste is properly characterized and managed for transportation and disposal in accordance with established regulation, laws and the hazardous waste storage permit. Provides contractor oversight as required.~~

Position Title: DLA-DS Contracting Officer's Representative (Darwyn Sewell)

Responsibilities: Monitors DLA-DS contractor compliance with the DLA-DS waste disposal contract. Identifies and implements corrective actions for contractor deficiencies. Coordinates all waste management operations with the Field Compliance Manager and the Hazardous Waste Program Manager.

Position Title: DLA-DS Contractor Site Manager (Marvin Knight)

Responsibilities: Maintains compliance of Building 479 in accordance with all elements of the RCRA Part B Permit. Maintains data integrity within the Enterprise Environmental Safety Occupational and Health Management Information System (EESOH-MIS) and identifies data problems to the 88th CEG/CEI. Prepares and maintains waste profile sheets.

Prepares and manifests all waste shipments for treatment and disposal in accordance with 40 CFR, 49 CFR and the DLA-DS waste disposal contract. Provides technical assistance to the Field Compliance Manager and the Hazardous Waste Program Manager. Serves as on-site safety manager.

Position Title: DLA-DS Contractor Field Personnel (~~Marvin Knight~~)

Responsibilities: Coordinates and picks up waste containers from initial generating activities and stores containers in the appropriate locations within Building 479. Confirms proper labeling and marking of containers prior to pick up. Enters waste inventory into the EESOH-MIS and ensures data integrity. Performs weekly inspections and conducts general housekeeping. Assists the DLA-DS Contractor Site Manager as required.

Position Title: AFRRAD Personnel

Responsibilities: Receives and properly stores only mixed waste from off-site generators. Consolidates only mixed waste containers in Building 477. Prepares shipping papers and other necessary documents and arranges shipment of the consolidated mixed waste containers for off-site disposal.

H.1b Training Content, Frequency, and Techniques [40 CFR 264.16(c) and 264.16(d)(3)]

Initial hazardous waste training for personnel who are involved with operations of WPAFB's hazardous waste permit at Building 479 is accomplished via a comprehensive training class. The class topics are identified in Table H-1. Annual refresher training is accomplished through either an outside vendor, an on-base class or a computer based training class. All topics in the initial class will be covered in the refresher class.

Hazardous waste training for personnel who are involved with operation of WPAFB's hazardous waste permit is managed by the Hazardous Waste Program Manager. Copies of training certificates

are maintained within the 88th CEG/CEI for review and inspection. Training status is monitored using a database spreadsheet.

H.1c Relevance of Training to Job Position [40 CFR 264.16(a)(2)]

Training is required for all personnel who are involved with operation of WPAFB's hazardous waste permit at Building 479 as outlined in Section H-1.b. The courses discussed provide instruction in the safe storage of hazardous materials and wastes.

H.1d Training for Emergency Response [40 CFR 264.16(a)(3)]

The CEI training program ensures that its employees receive emergency response training for emergency response actions which may be necessary when operating WPAFB's hazardous waste permitted storage area (Building 479). Emergency response is also covered in classroom instruction with lectures and practical exercises. Training will include familiarizing personnel with response procedures for fire and spill, and will include familiarizing employees with the content of the contingency plan.

H.1d(1) Procedures for Using, Inspecting, Repairing, and Replacing Facility Emergency and Monitoring Equipment [40 CFR 264.16(a)(3)(i)]

Facility emergency and monitoring equipment is routinely inspected in accordance with the General Inspection Schedule (Table F-1). On-the-job training is provided as to the locations of equipment how to inspect, maintain and use each item, as well as replacement of equipment (if necessary) after the emergency is over.

H.1d(2) Key Parameters for Automatic Waste Feed Cut-Off Systems [40 CFR 264.16(a)(3)(ii)]

No automatic waste feed cut-off system will exist at the storage facilities. All hazardous wastes stored in Building 479 will be containerized in accordance with DOT specifications. No specialized training for automatic waste feed cut-off system is required.

H.1d(3) Communications or Alarm Systems [40 CFR 264.16(a)(3)(iii)]

Areas of training with respect to communications or alarm systems include supervisor on-the-job training in types of equipment available at the site and how to use them, locations of equipment, emergency telephone numbers to be used to summon external assistance, alarm codes, and how to maintain the equipment and frequency of serviceability checks.

H.1d(4) Response to Fires or Explosions [40 CFR 264.16(a)(3)(iv)]

In addition to hazardous waste management personnel, the Fire Department on WPAFB is continuously prepared to respond to all fires involving hazardous wastes. Specific procedures that will be followed in the event of a fire or explosion are outlined in the Contingency Plan (Section G).

H.1d(5) Response to Groundwater Contamination Incidents [40 CFR 264.16(a)(3)(v)]

The potential for groundwater contamination will be low because all hazardous wastes/materials will be stored in DOT-approved, leakproof containers. The floors of the Building 479 are coated with a chemically-resistant sealant. Each storage area provides containment in the event of a leak or spill. In addition, a pre-established Contingency Plan (Section G-4) will provide for swift cleanup, thereby minimizing the risk of an outside spill or leak. Personnel will be trained in spill response and Contingency Plan implementation. At a minimum, one simulated emergency response exercise (spill, fire or other) will be conducted each year to test the effectiveness and response of the installation response team.

H.1d(6) Shutdown of Operations [40 CFR 264.16(a)(3)(vi)]

When operations must shut down, no special actions are required; therefore, no specific training is required.

H.2 Implementation of Training Program [40 CFR 264.16(d)(4) and 264.16(b)]

Any employee assigned to manage/handle hazardous materials and hazardous wastes at Building 479 will complete the training program discussed in Section H.1 within 6 months of their date of employment. At a minimum, these employees will receive on-the-job training and will attend a RCRA course. On-the-job training will include, but not be limited to:

Chemical Compatibility

Proper Container Storage Requirements

Fire and Spill Prevention and Response

Use of Personal Protective Equipment

General Facility Security Requirements

Emergency Equipment

No employee will work unsupervised with hazardous wastes until he/she successfully completes on-the-job training. New employees will not work in unsupervised positions until they have completed either on the job, initial or annual training.

All records documenting the job title for each position, job descriptions, employee names, date of training and completed training programs (both introductory and review) will be kept onsite in the Installation Management Division. These records will be kept until closure of the facility for current employees and for 3 years from the date of termination for former employees.

**TABLE H-1. WRIGHT-PATTERSON AFB
HAZARDOUS WASTE MANAGEMENT TRAINING PROGRAM**

COURSE OUTLINE

Unit I	Introduction to RCRA (40 CFR)
Unit II	Define Hazardous Waste
Unit III	Generator Requirements
Unit IV	Storage Requirements
Unit V	Transporter Requirements
Unit VI	Safety and Chemical Compatibility
Unit VII	Universal Waste and Used Oil Management
Unit VIII	Class Exercise
Unit IX	Emergency Response and Contingency Plan
Unit X	Exam

SECTION I
CLOSURE PLAN, POST-CLOSURE PLAN AND
FINANCIAL REQUIREMENTS
BUILDINGS 478/479

This section is submitted in accordance with the requirements of 40 CFR 270.14(b)(13), 270.14(b)(15-18), 264.110-264.115, and 264.178.

I-1 Closure Plan [40 CFR 270.14(b)(13)]

Building 478 – Partial Closure Activities

As of November 20, 2001 Building 478 is no longer utilized as a permitted hazardous waste storage unit. Instead Building 478 has been converted for use as office space.

In order to utilize Building 478 as office space it was necessary to implement some parts of the closure plan. Specifically, the inside of Building 478 was decontaminated, and soil sampling was conducted relative to a former outdoor storage pad adjacent to Building 478. The following documents detail the closure activity which has been conducted relative to Building 478.

- 1) WPAFB'S April 22, 2002 written "Decontamination Report" received by Ohio EPA on April 26, 2002.
- 2) WPAFB'S July 19, 2002 closure certification report entitled "RCRA Partial Closure Activities, Building 478".

Ohio EPA review of these documents concluded the following. The interior of Building 478 appeared to have been successfully decontaminated. Soil sampling data suggests that soils beneath a former outdoor storage pad adjacent to Building 478 are contaminated above regulatory limits. Therefore Ohio EPA cannot certify closure of Building 478.

It was agreed that remaining closure activities relative to contaminated soils at Building 478 may be postponed until WPAFB closes Building 479. At that juncture WPAFB will submit a complete closure certification for both Buildings 478 and 479. These conclusions are documented

within Ohio EPA letters dated September 27, 2002 and December 3, 2002. The specific areas of contamination and exceedances of regulatory limits are noted there also.

This plan identifies all steps that will be necessary to complete closure of Buildings 478/479 located at WPAFB, at the end of their operating lives. The design of these units is not conducive to partial closure, therefore, no partial closure of the units is intended.

The WPAFB Asset INSTALLATION Management Division will maintain a copy onsite of the approved closure plan, and of all revisions to the plan. Revisions will be made whenever any modifications are made to the existing equipment, structures, instruments, or procedures related to the management of the facilities.

This closure plan is designed to ensure that the waste management areas will not require further maintenance and controls (i.e., the site will be "clean closed"); will eliminate the need for post-closure activity; and will minimize the release of hazardous waste, leachate, or contaminated rainfall to the air, groundwater, surface water, and surrounding land. It is WPAFB's intent to utilize best management practices to minimize spills and releases throughout the life of the facility. Good house-keeping will be continuously emphasized, and thus, closure activities are simplified to the extent possible.

Detailed descriptions of the steps needed to remove or decontaminate all hazardous waste residues and containment system components, equipment, and structures, during closure are included in this closure plan.

General Description

WPAFB is located in southwestern Ohio east of the city of Dayton. The Base occupies, 8,551 acres and is composed of two airfields (Wright and Patterson) separated by State Route 444 and the Consolidated Rail Corporation Tracks. Wright Field, designated as Area B, is situated in Montgomery and Greene counties. Patterson Field, composed of Area A, is located in Greene County, except for a 1.5 mile track adjacent to the Mad River which is located in Montgomery County. Clark County abuts the Base at the northeast property line. Buildings 478/479 are located in Area B. This introduction provides an overview of the units to be closed and the proposed closure procedures and related information. Map 1 identifies the physical location of each of these waste management areas.

The hazardous waste container storage facilities (Buildings 479) are as follows:

- Building 478 (Figure I-1) is a one-story concrete building on a concrete slab foundation. The building dimensions are approximately 30 by 50 feet. This unit handled wastes in containers with volumes ranging from 40 ml to 55-gallon drums.

This unit potentially handled all wastes listed in the Part A Permit. Appendix I-1 presents a list of wastes handled.

- ° Building 479 (Figure I-1) is a one-story 4-sided metal building on a concrete slab foundation. The buildings dimensions are approximately 50 by 85 feet. This unit primarily handles wastes in 55-gallon drums. This unit will potentially handle all of the wastes in the Part A permit (Appendix I-1).

Any employees and/or contractors directly involved in closure activities will have coveralls, safety glasses, hard hats, and gloves (Level D) available. Additional personal protective equipment may be necessary and will be used as described in the closure plan for each unit. Visitors to the site are required to wear safety glasses and safety shoes (when appropriate). Employee decontamination will take place when necessary. Employee decontamination consists of washing boots, disposing of any disposable clothing (gloves and dust masks), and hand washing. Air emissions resulting from closure activities will be minimized or eliminated by employing good management practices (e.g., taking into account wind direction and speed and proper waste handling during removal).

Due to the varying nature of the hazardous waste on site at any given time, an operational protocol will be developed just prior to closing any of the hazardous waste management areas. This protocol will delineate exactly which wastes are to be handled first, last, etc.; and any other appropriate waste specific directives such as method of treatment/disposal. In devising the operational protocol, the removal manager must: 1) identify the operational status of all equipment and arrange for necessary repairs; 2) identify the type and characteristics of the wastes and inventory; 3) develop an inventory reduction plan by specifying how, when, and where each waste will be managed; and 4) develop a staffing plan to ensure that the closure plan schedule is accomplished. This protocol cannot be established prior to closure because WPAFB cannot identify which wastes will be on site at the time of final closure, since there are several different wastes which could be present in varying quantities at any time.

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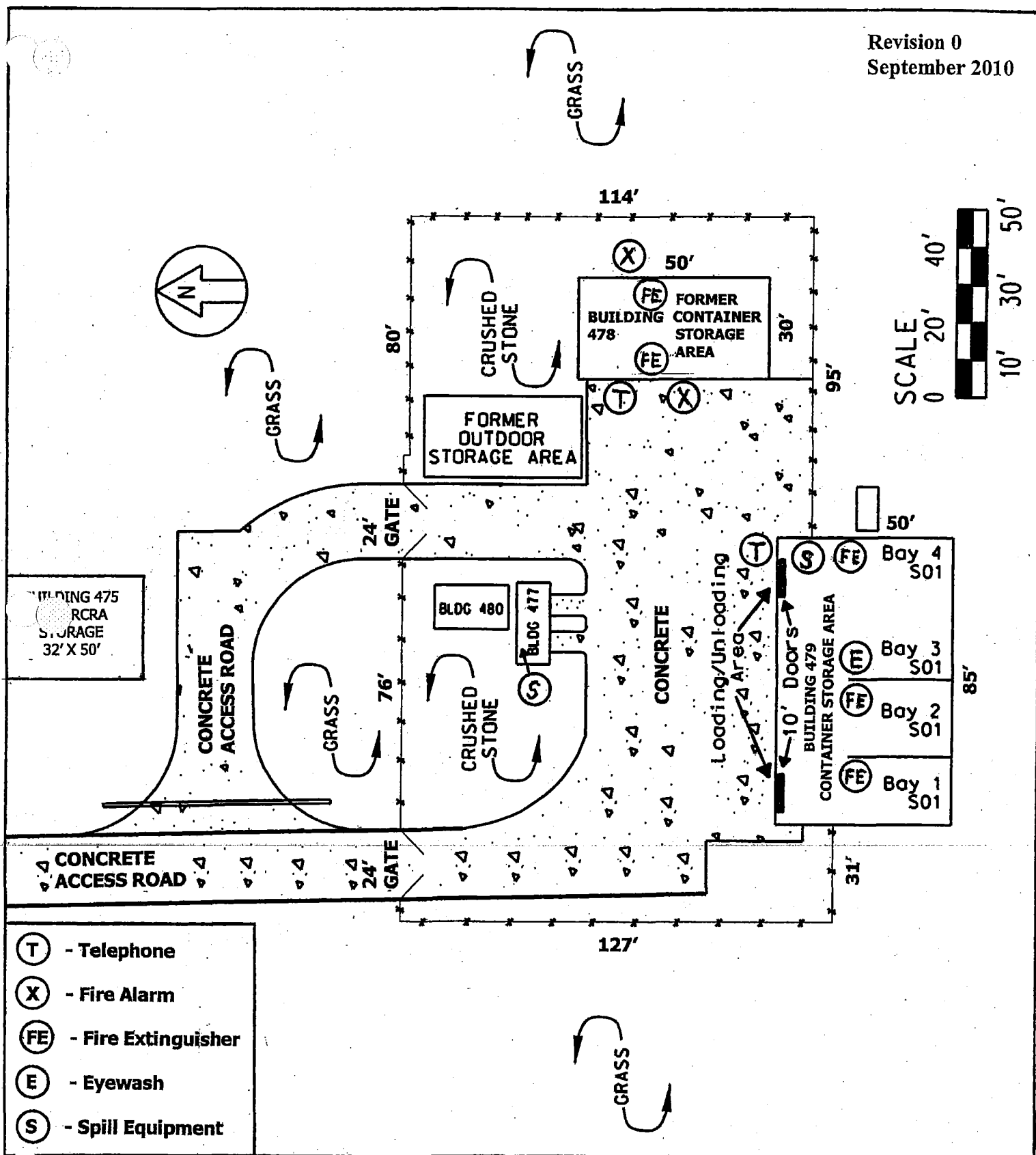


FIGURE I-1.
BUILDINGS 478/479 SITE PLAN

I-1a Closure Performance Standard [40 CFR 264.111]

Upon completion, this closure plan is designed to ensure that the RCRA-regulated waste management areas (i.e., the container storage areas) will not require further maintenance and controls, and that threatens to human health and the environment will be minimized or eliminated. All hazardous wastes onsite at the time of closure will be properly packaged, labeled, handled, and transported to permitted TSDF's for reclamation or disposal.

For Buildings 478/479 the following rinseate standards will be met before the surface of a hazardous waste management unit and its appurtenances or decontamination equipment are considered clean (per OEPA's Closure Plan Review Guidance Document, March 1999):

- 1) Fifteen times the public drinking water maximum contaminant level (MCL) for hazardous waste constituents as promulgated in 40 CFR 141.11 and OAC 3745-81-11 for inorganics and 40 CFR 141.12 and OAC 3745-81-12 for organics provided that fifteen times the MCL is less than or equal to 1 MG/L;
- 2) If the MCL is not available for a particular contaminant, then fifteen times the maximum contaminant level goal (MCLG) as promulgated in 40 CFR 141.50 should be used as the clean standard; that fifteen times the MCL is less than or equal to 1 MG/L. If the MCLG is zero, use fifteen times the contaminants practical quantitation limit (PQL) in groundwater provided that fifteen times the PQL is less than or equal to 1 MG/L; or
- 3) If the product of fifteen times the MCL or MCLG exceeds 1 mg/l or, if neither an MCL nor an MCLG is available for a particular contaminant, 1 mg/l shall be used as the clean standard.

I-1b Partial Closure and Final Closure Activities [40 CFR 264.112(b)(1) through 264.112(b)(7)]

WPAFB does not anticipate partial closure of any of the permitted waste management units. Although Buildings 478/479 are operated as one unit, partial closure may occur with one of the buildings being closed before the other. In this event, partial closure involving one of the buildings would follow the schedule and procedures outlined in Table I-1 and Section I-1e. The closure will be certified by a registered professional engineer. The schedule for closure is presented in Section I-1d.

I-1c Maximum Waste Inventory [40 CFR 264.112(b)(3)]

Building 478 stored the equivalent of a maximum of seventy-two 55-gallon drums or 3960 gallons, and Building 479 will store the equivalent of a maximum of 324 55-gallon drums or 17,820

gallons. Appendix I-1 presents a detailed list of hazardous wastes potentially stored at Buildings 478/479.

I-1d Schedule for Closure [40 CFR 264.112(b)(6)]

WPAFB is an integral part of the defense system of the United States; it is not anticipated that closure will occur. However, a closure date of 2039 can be estimated for Buildings 478/479.

Notification of intent to close will be sent to the Ohio EPA and the U.S. EPA, Region V, 180 days before beginning final closure of each facility. Final closure will be certified by a registered professional engineer.

Within 90 days after the receipt of the final volume of hazardous wastes, final closure activities will be initiated. Table I-1 presents an estimated schedule for closure, which gives an estimate of the total time required to close the facility and the time required for intervening closure activities.

I-1d(1) Extensions for Closure Time [40 CFR 264.113(a) and (b)]

No extension for closure time is anticipated. If, however, an extension would be necessary to properly close Buildings 478/479 then a petition will be sent to the Ohio EPA and the U.S. EPA, Region V, amending the closure schedule listed in Table I-1. This petition will demonstrate:

- The need for more than 180 days to close the facility;
- Reasonable likelihood that a person other than the owner/operator will recommence operation of the site;
- That all steps have and will be taken to prevent threats to human health and the environment from the unclosed but inactive facility.

TABLE I-1. ESTIMATED CLOSURE SCHEDULE FOR BUILDINGS 478/479

Activity	Days
1. Receipt of final volume of hazardous waste	0-10
2. Conduct final drum inventory, inspect and repack drums (if needed), prepare waste manifest, prepare drums for shipment	0-15
3. Removal/disposal of final waste inventory	15-45
4. Decontamination of drum storage areas and secondary containment trays	45-50
5. Removal, manifesting and disposal of solvent washing	50-85
6. Soil sampling and analysis	80-110
7. Removal, manifesting, and disposal of contaminated soil	110-140
8. Decontamination or disposal of equipment (storage racks, cabinets, pallets, tools, etc.)	140-160
9. Accounting of all waste shipment manifests	170
10. Completion of closure and certification submittal	180

I-1e Closure Procedures [40 CFR 264.112, 264.114]

This section of the closure plan addresses the specific, step-by-step procedures to be followed in closing the waste management units. Specifically, it addresses: inventory removal; disposal or decontamination of all related equipment, structures, and residuals; and the closure procedures for Buildings 478/479.

I-1e(1) Inventory Removal [40 CFR 264.112(b)(3)]

Upon formal notification to proceed with closure of either facility, no additional hazardous waste will be accepted. Furthermore, all hazardous waste/property remaining in inventory will be removed in accordance with a contractual agreement to a State- and/or EPA-Treatment, Storage or Disposal (TSD) facility or recycling site. The pallets with wastes will be lifted onto trucks using a forklift with extended reach and drum grabbers as necessary. Any repackaging of small containers into 55-gallon drums with absorbent materials will be conducted by the ~~DRMS~~ DLA-DS approved disposal contractor. If this process cannot be accomplished within the allotted time for closure an extension will be requested or, the hazardous property will be transferred to an operational ~~DRMO~~ DLA-DS with a valid TSD permit.

I-1e(2) Disposal or Decontamination of Equipment, Structures, Residuals, and Soils [40 CFR 264.112(b)(4), 264.114]

No hazardous waste from the permitted units will remain onsite. All related structures, (e.g., secondary containment areas) will be decontaminated during closure. The specific procedures to be followed for dismantling the waste storage units, decontaminating all structures, and disposing of all related materials and residuals are described below by unit. All units and associated/ancillary structures

will be washed and triple rinsed. The final rinseate will be analyzed for appropriate parameters to verify that the equipment and structures are clean. The specific analytical parameters to be determined will depend on the unit being closed and the associated waste(s) stored in the unit as discussed in Section I-1e(4).

The interior of Buildings 478/479 will be decontaminated by removing all residues from its interior surfaces. The bays, collection trenches, interior floors, walls, doors, and any waste handling equipment (such as forklifts or pallet movers) would be washed with a suitable cleaning agent.

Clean solutions will be used based on specific vendor recommendations; however, they generally will consist of a mild caustic solution for acid waste storage areas, water for alkali waste storage areas, and non-alkali detergents for other storage and handling areas.

The floors within Buildings 478/479 along with the collection trenches, berms, and separation walls between storage bays, will be scrubbed with stiff brooms and cleaning solutions to assure adequate cleaning. The cleaning solutions will be collected and removed manually by buckets or mops. Decontamination washwater will either be drummed or stored in a vacuum truck prior to disposal. If storage pads cannot be decontaminated after repeated washings, they will be disposed of as a hazardous waste.

The loading and unloading areas for Building 479 will also be decontaminated by using appropriate cleaning solutions and stiff brooms and brushes. Since these areas have sloped floors leading to collection trenches, the fluids and any residue removed will be collected manually by buckets and/or mops.

The containment trays and shelf units in Building 478 were moved to Building 479 to be used to store hazardous waste there and will be decontaminated and evaluated for decontamination effectiveness utilizing procedures described below for equipment. The loading/unloading area for 478 will also be decontaminated using clean solutions and stiff brooms and brushes. Washwater will be collected in a bermed area. The decontamination area will consist of a nylon reinforced polypropylene liner laid over grade. Hay bales will be placed under the perimeter of the liner and the liner will be folded over the bales creating a containment dike.

Contaminated equipment, including tools, and any other items used by personnel, will be decontaminated or disposed of as a hazardous waste. Contaminated protective clothing will be deposited in a contaminated clothing drum and disposed of offsite as a hazardous waste.

Decontamination of equipment will be accomplished by washing with a strong detergent wash. Larger equipment, such as forklifts, will be cleaned either with a detergent wash or a portable jet steam cleaner.

In addition to the proper removal and disposal or treatment of waste in inventory at closure, all contaminated equipment residues or wash waters generated and collected during the closure process will be evaluated for proper disposal. If the wash water fluids meet the discharge standards for the Base sanitary sewer, the fluids will be discharged to the sewer. If the fluids do not meet discharge

standards, they will be packaged as hazardous waste and shipped off base to an appropriate licensed disposal site or treatment facility.

Similarly, all residues and structures or equipment that will not be decontaminated will be packaged and shipped off base to an appropriate disposal site.

Sampling and testing methods to verify decontamination of equipment, structures, residuals and soils are discussed in Section I-1e(4).

I-1e(3) Closure of Disposal Units/Contingent Closures [40 CFR 270.14(b)(13), 270.17(f), 270.18(h), 270.21(e), 264.228(a)(2), 264.228(c)(1)(i), 264.258(c), 264.258(c)(1)(i), 264.310(a), 264.601]

Not applicable, WPAFB does not operate any disposal units.

I-1e(4) Closure of Containers [40 CFR 264.178, 264.112(b)(3)]

At closure, the containers from Buildings 478/479 will be sealed and labeled prior to shipment in accordance with 40 CFR Sections 261 and 262. Manifests for container removal will be maintained at the WPAFB Asset INSTALLATION Management Division.

Following the removal of all wastes a Registered Professional Engineer will inspect the container storage area concrete floors, and containment trenches for any breaches in the secondary containment system. If any cracks are present that indicate waste may have contacted the soil beneath the concrete, one soil sample will be collected from beneath each cracked area and analyzed as described in Table I-2. All such areas will be sealed prior to the commencement of cleaning to prevent migration of rinseate out of the containment area. Additionally, soil sampling will be conducted for the area where waste was stored on the ground at Building 478. Building 478 loading/unloading area will be included in the sampling area. Grid sampling will be conducted based on Ohio EPA Closure Plan Review Guidance Document - March 1999. Samples would be analyzed as described in Table I-2. Sampling methods and equipment, as well as laboratory analytical methods will follow guidance in U.S. EPA's SW-846, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, Third Edition. In addition to grid sampling, a sample will be taken from any area that is found, by visual inspection, to be discolored or otherwise impaired. If the soil sample analysis (for either the outdoor storage area or beneath cracks) exceeds the acceptable "risk-based clean" levels outlined

**TABLE I-2. PARAMETERS AND METHODS FOR ANALYTICAL TESTING FOR
CLOSURE OF HAZARDOUS WASTE MANAGEMENT UNITS**

Unit/Sample	No. of Samples	Analytical Parameters	Analytical* Methods
1. Building 478			
Finale Rinseate	33	(30 trays **, flammable storage cabinet loading/unloading area and the concrete floor of the building Appendix IX Metals Volatile Organics Semivolatile Organics	6010/7000
Soil (if necessary)	TBD		8240
			8270
2. Building 479			
Final Rinseate	20	(1 from each trench and 12 trays) Appendix IX Metals Volatile Organics Semivolatile Organics	6010/7000
Soil (if necessary)	TBD		8240
			8270

* Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods (SW-846), U.S. EPA, Nov. 1986, 3rd Edition.

** 30 trays moved to Building 479 and are being utilized to store hazardous waste there.

TBD - To be determined based on a size of area to be sampled and presence, if any, of structural cracks in the containment area.

in OEPA's Closure Plan Review Guidance Document (March 1999), then the soil will be excavated and disposed. Excavated soil will be disposed of at a properly permitted TSDF. Should it be determined that soil excavation and disposal is not possible, then WPAFB will either treat the soil in-situ or conduct a risk assessment resulting in the submittal of a revised closure plan.

Once the berms, walls, concrete floors and containment trenches have been washed they will be tripled rinsed with clean water. Wash waters and rinseate [from the decontamination efforts outlined in Section I-13(s)] will be sampled and analyzed for the compounds listed in Table I-2.

Upon completion of waste removal and decontamination, from any of the units, the units will be evaluated to determine that all waste and hazardous constituents have been removed. This evaluation will be made using the analytical results from rinseate samples described above. The following number of rinseate samples will be collected, analyzed, and evaluated:

- ° One sample from each collection trench in Building 479
- ° One sample from each storage tray, formerly used in Building 478 and now utilized in Building 479 (and any storage trays used in 479)
 - ° Building 478 loading/unloading area (loading/unloading area from 479 is within the contained areas of Bays 1 and 4)
 - ° Concrete floor of Building 478

The actual number may differ from those specified above to reflect actual conditions. In no circumstances would a number less than the above be evaluated.

The building, equipment, and structures will be designated as decontaminated if the final rinseate samples indicate that the type of wastes stored in this area meet the criteria presented in Section I-1a. The samples will be analyzed for the compounds in Table I-2.

Should the analyses confirm that additional decontamination is necessary, it would be completed as defined above. Following the completion of the above closure procedures and analytical confirmation that the waste storage and handling areas have been properly decontaminated, certification of closure will be completed. This will be accomplished by demonstrating that 40 CFR Part 261 Appendix VIII hazardous constituents (commonly referred to as the Appendix IX list) will not be present to impact any environmental media in excess of Agency established exposure levels, or pose a threat to human health and the environment.

I-1e(5) Closure of Tanks [40 CFR 264.178]

No tanks will be used to store wastes at this facility.

I-1e(6) Closure of Waste Piles [40 CFR 270.18(i) and 264.258]

No waste piles will be located at this facility.

I-1e(7) Closure of Surface Impoundments [40 CFR 270.17(g) and 264.228]

No surface impoundments will be located at this facility.

I-1e(8) Closure of Incinerators [40 CFR 264.351]

No incinerators will be located at this facility.

I-1e(9) Closure of Landfills [40 CFR 270.21(e) and 264.310(a)]

No landfills will be located at this facility.

I-1e(10) Closure of Land Treatment [40 CFR 270.20(d)(6), 264.280(a) and (b)]

No land treatment activities will occur at this facility.

I-1f Certification of Closure [40 CFR 264.115]

Certification that closure of the hazardous waste storage facility has been completed in accordance with the approved closure plan will be made by the owner and operator of the facility, as well as by registered professional engineer. Certification of closure will be submitted to the regional administrator.

I-2 Post Closure Plan [40 CFR 270.14(b)(13) and 264.118]

A Post-Closure plan will not be needed because this permit only addresses a storage facility. All wastes will be removed and the storage areas will be cleaned closed.

**I-3 Notice to Local Land Authority and Notice in Deed to Property
[40 CFR 264.119 and 264.120]**

WPAFB operates as a hazardous waste storage facility, not a disposal facility. Therefore, notice to the local land authority is not necessary. A notation is not necessary in the deed to inform potential purchasers of restrictions associated with a disposal site, as required by the regulations cited for this section.

I-4 Closure Cost Estimate [40 CFR 270.14(b)(15) and 264.142(a) and (b)]

The Federal Government is exempt from the financial requirements of hazardous waste regulation. WPAFB is owned and operated by the Federal Government. Therefore, closure costs and insurance documentations are not required, and Sections I-4 through I-9 do not apply to this facility.

I-5 Financial Assurance Mechanism for Closure [40 CFR 264.143 and 264.150]

Not applicable.

I-6 Post-Closure Estimate [40 CFR 264.144]

Not applicable.

I-7 Financial Assurance Mechanism for Post-Closure [40 CFR 264.145]

Not applicable.

I-8 Liability Insurance [40 CFR 264.147]

Not applicable.

Revision 0
September 2010

APPENDIX I-1
HAZARDOUS WASTES POTENTIALLY STORED
IN BUILDING 479

JUN 27 2011

DIV. OF HAZARDOUS
WASTE MGT.

00306

HAZARDOUS WASTE THAT WRIGHT-PATTERSON CURRENTLY STORES

Chemical Name	EPA Hazardous Waste Number	Hazard	Estimated Annual Quantity (in pounds)
Ignitables	D001	Ignitable	30,000
Corrosives	D002	Corrosive	22,000
Reactives	D003	Reactive	10,000
Arsenic	D004	TCLP	1
Barium	D005	TCLP	1
Cadmium	D006	TCLP	1
Chromium	D007	TCLP	1
Lead	D008	TCLP	25,000
Mercury	D009	TCLP	1
Selenium	D010	TCLP	1
Silver	D011	TCLP	1
Endrin	D012	TCLP	1
Lindane	D013	TCLP	1
Methoxychlor	D014	TCLP	1
Toxaphene	D015	TCLP	1
2,4-D	D016	TCLP	1
2,4,5-TP Silvex	D017	TCLP	1
Benzene	D018	TCLP	1
Carbon tetrachloride	D019	TCLP	1
Chlordane	D020	TCLP	1
Chlorobenzene	D021	TCLP	1
Chloroform	D022	TCLP	1
O-Cresol	D023	TCLP	1
M-Cresol	D024	TCLP	1
P-Cresol	D025	TCLP	1
Cresol	D026	TCLP	1
1,4-Dichlorobenzene	D027	TCLP	1

(continued)

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HAZARDOUS WASTE TABLE (continued)

Chemical Name	EPA Hazardous Waste Number	Hazard	Estimated Annual Quantity (in pounds)
1,2-Dichloroethane	D028	TCLP	1
1,1-Dichloroethylene	D029	TCLP	1
2,4-Dinitrotoluene	D030	TCLP	1
Heptachlor	D031	TCLP	1
Hexachlorobenzene	D032	TCLP	1
Hexachloro-1,3-Butadiene	D033	TCLP	1
Hexachloroethane	D034	TCLP	1
Methyl Ethyl Ketone	D035	TCLP	1
Nitrobenzene	D036	TCLP	1
Pentachlorophenol	D037	TCLP	1
Pyridine	D038	TCLP	1
Tetrachloroethylene	D039	TCLP	1
Trichloroethylene	D040	TCLP	1
2,4,5-Trichlorophenol	D041	TCLP	1
2,4,6-Trichlorophenol	D042	TCLP	1
Vinyl Chloride	D043	TCLP	1
Spent Halogenated Solvents	F001	Toxic	1,600
Spent Halogenated Solvents	F002	Toxic	9,000
Spent Non-Halogenated Solvents	F003	Toxic	16,000
Spent Non-Halogenated Solvents	F004	Toxic	90
Spent Non-Halogenated Solvents	F005	Toxic	16,000
Wastewater Treatment Sludges from Electroplating Operations	F006	Toxic	1
Spent Cyanides	F007	Reactive, Toxic	1,520
Spent Plating Bath Residues	F008	Toxic	1,000
Spent Stripping and Bath Solutions	F009		4,000
Quenching Bath Sludge from Oil Baths from Metal Heat Treating Operations	F010	Toxic	1

(continued)

HAZARDOUS WASTE TABLE (continued)

Chemical Name	EPA Hazardous Waste Number	Hazard	Estimated Annual Quantity (in pounds)
Spent Cyanide Solutions	F011	Toxic	1
Quenching Wastewater Treatment Sludges	F012	Toxic	1
Wastewater Treatment Sludges	F019	Toxic	1
Wastes from the Production and Manufacturing Use of tri-, or tetrachlorophenol	F020	Toxic	1
Wastes from the Production and Manufacturing Use of pentachlorophenol	F021	Toxic	1
Wastes from the Manufacturing Use of tetra, penta, or hexachloro-benzenes	F022	Toxic	1
Wastes from the Production of Materials on Equipment previously used for the Production and Manufacturing use of tri-, and tetrachlorophenols	F023	Toxic	1
Wastes from the Production of chlorinated aliphatic hydrocarbons	F024	Toxic	1
Wastes from the Production of Materials on Equipment previously used for the Production and Manufacturing of tetra-, penta-, or hexachlorobenzenes	F026	Toxic	1
Discarded Unused Formulations containing tri-, tetra, or pentachlorophenols	F027	Toxic	1
Residues Resulting from Incineration or Thermal Treatment of Soil Contaminated with EPA Hazardous Wastes Nos. F020, F021, F022, F023, F026, and F027	F028	Toxic	1
Leachate	F039	Toxic	1
3-(Alpha-Acetyl Benzene) 4 Hydroxycoumayl	P001	Corrosive, Toxic	25
1- Acetyl-2-thiourea	P002	Toxic	1
Acrolein	P003	Toxic	1

(continued)

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HAZARDOUS WASTE TABLE (continued)

Chemical Name	EPA Hazardous Waste Number	Hazard	Estimated Annual Quantity (in pounds)
Aldrin	P004	Toxic	1
Allyl Alcohol	P005	Toxic	1
Aluminum Phosphide	P006	Toxic	1
5-(Aminomethyl)-3-isoxazoleol	P007	Toxic	1
4-a Aminopyridine	P008	Toxic	1
Ammonium Picrate	P009	Reactive	1
Arsenic Acid	P010	Toxic	1
Arsenic Pentoxide	P011	Toxic	1
Arsenic Trioxide	P012	Toxic	1
Barium Cyanide	P013	Toxic	1
Triphenol	P014	Toxic	1
Beryllium Dust	P015	Toxic	1
Bis(chloromethyl) Ether	P016	Toxic	1
Bromoacetone	P017	Toxic	1
Brucine	P018	Toxic	1
Dinoseb	P020	Toxic	1
Calcium Cyanide	P021	Toxic	1
Carbon Disulfide	P022	Toxic	35
Chloroacetaldehyde	P023	Toxic	1
p-Chloroaniline	P024	Toxic	1
Thiourea, (2-chlorophenyl)-	P026	Toxic	1
3-Chloropropionitrile	P027	Toxic	3
Benzyl Chloride	P028	Toxic	1
Copper Cyanides	P029	Toxic	100
Cyanides	P030	Toxic	1,500
Cyanogen	P031	Toxic	1
Chlorine Cyanide	P033	Toxic	1

(continued)

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HAZARDOUS WASTE TABLE (continued)

Chemical Name	EPA Hazardous Waste Number	Hazard	Estimated Annual Quantity (in pounds)
4,6-Dinitro-O-cyclohexylphenol	P034	Toxic	1
Dichlorophenylarsine	P036	Toxic	1
Dieldrin	P037	Toxic	1
Diethylarsine	P038	Toxic	1
Disulfoton	P039	Toxic	1
O,O-Diethyl O-pyrazinyl Phosphorothioate	P040	Toxic	1
Diethyl-p-nitrophenyl Phosphate	P041	Toxic	1
Epinephrine	P042	Toxic	1
Diisopropyl Fluorophosphate	P043	Toxic	1
Dinethoate	P044	Toxic	1
Thiofanox	P045	Toxic	1
alpha, alpha-Dimethylphethylamine	P046	Toxic	1
4,6-Dinitro-O-cresol and Salts	P047	Toxic	1
2,4-Dinitrophenol	P048	Toxic	1
2,4-Dithiobiuret	P049	Toxic	1
Endosulfan	P050	Toxic	1
Endrin	P051	Toxic	1
Aziridine	P054	Toxic	1
Fluorine	P056	Toxic	1
Fluoroacetamide	P057	Toxic	1
Acetic Acid, fluoro-, Sodium Salt	P058	Toxic	1
Heptachlor	P059	Toxic	1
Hexachlorohexahydro-exo,exo-dimethanonaphthalene	P060	Toxic	1
Hexaethyl Tetraphosphate	P062	Toxic	1
Hydrocyanic Acid	P063	Toxic	1
Methyl Isocyanate	P064	Toxic	1

(continued)

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HAZARDOUS WASTE TABLE (continued)

Chemical Name	EPA Hazardous Waste Number	Hazard	Estimated Annual Quantity (in pounds)
Mercury Fulminate	P065	Reactive, Toxic	1
Methomyl	P066	Toxic	1
2-Methylaziridine	P067	Toxic	1
Methyl Hydrazine	P068	Toxic	1
2-Methylactonitrile	P069	Toxic	1
Aldicarb	P070	Toxic	1
Methyl Parathion	P071	Toxic	1
THIOUREA, 1-NAPHTHALENYL-	P072	TOXIC	1
Nickel Carbonyl	P073	Toxic	1
Nickel Cyanide	P074	Toxic	1
Nicotine and Salts	P075	Toxic	1
Nitric Oxide	P076	Toxic	1
P-Nitroaniline	P077	Toxic	1
Nitrogen Dioxide	P078	Toxic	1
Nitroglycerine	P081	Toxic/Reactive	1
Dimethylnitrosamine	P082	Toxic	1
N-Nirosomethylvinylamine	P084	Toxic	1
Diphosphoramidate, Octamethyl	P085	Toxic	1
Osmium Oxide	P087	Toxic	1
Endothall	P088	Toxic	1
Parthion	P089	Toxic	1
Mercury, (acetato-O) phenyl-	P092	Toxic	1
N-Phenylthiourea	P093	Toxic	1
Phorate	P094	Toxic	1
Phosgene	P095	Toxic	1
Phosphine	P096	Toxic	1
Famphur	P097	Toxic	1

(continued)

HAZARDOUS WASTE TABLE (continued)

Chemical Name	EPA Hazardous Waste Number	Hazard	Estimated Annual Quantity (in pounds)
Pottassium Cyanide	P098	Toxic	30
Pottasium Silver Cyanide	P099	Toxic	1
Ethyl Cyanide	P101	Toxic	1
Propargyl Alcohol	P102	Toxic	2
Selenourea	P103	Toxic	1
Silver Cyanide	P104	Toxic	1
Sodium Azide	P105	Toxic	5
Sodium Cyanide	P106	Toxic	500
Strontium Sulfide	P107	Toxic	1
Strychnine and Salts	P108	Toxic	1
Tetraethyldithiopyrophosphate	P109	Toxic	1
Tetraethyl Lead	P110	Toxic	1
Tetraethyl Pyrophosphate	P111	Toxic	1
Tetranitromethane	P112	Toxic	1
Thallic Oxide	P113	Toxic	1
Thallium (I) Selenite	P114	Toxic	1
Thallium (I) Sulfate	P115	Toxic	1
Thiosemicarbazide	P116	Toxic	1
Trichloromethanethiol	P118	Toxic	1
Ammonium Vanadate	P119	Toxic	1
Vanadium Pentoxide	P120	Toxic	1
Zinc Cyanide	P121	Toxic	1
ZINC PHOSPHIDE	P122	REACTIVE, TOXIC	1
TOXAPHENE	P123	TOXIC	1
Carbofuran	P127	Toxic	1
Mexacarbate	P128	Toxic	1
Tirpate	P185	Toxic	1

(continued)

HAZARDOUS WASTE TABLE (continued)

Chemical Name	EPA Hazardous Waste Number	Hazard	Estimated Annual Quantity (in pounds)
Physostigmine Salicylate	P188	Toxic	1
Carbosulfan	P189	Toxic	1
Metolcarb	P190	Toxic	1
Dimetilan	P191	Toxic	1
Isolan	P192	Toxic	1
Oxamyl	P194	Toxic	1
Manganese dimethyldithiocarbamate	P196	Toxic	1
Formparanate	P197	Toxic	1
Formetanate hydrochloride	P198	Toxic	1
Methiocarb	P199	Toxic	1
Promecarb	P201	Toxic	1
m-Cymenyl methylcarbamate	P202	Toxic	1
Aldicarb Sulfone	P203	Toxic	1
Physostigmine	P204	Toxic	1
Ziram	P205	Toxic	1
Ethanol	U001	Ignitable	1
Acetone	U002	Toxic	500
Acetonitrile	U003	Ignitable, Toxic	2
Acetophenone	U004	Toxic	2
2-Acetylaminofluorene	U005	Toxic	1
Acetyl Chloride	U006	Corrosive, Reactive, Toxic	3
Acrylamide	U007	Toxic	1
Acrylic Acid	U008	Ignitable	1
Acrylonitrile	U009	Toxic	22
Mitomycin	U010	Toxic	1
Amitrole	U011	Toxic	1

(continued)

SOUTHWEST DISTRICT

HAZARDOUS WASTE TABLE (continued)

Chemical Name	EPA Hazardous Waste Number	Hazard	Estimated Annual Quantity (in pounds)
Aniline	U012	Toxic	25
Auramine	U014	Toxic	1
Azaserine	U015	Toxic	1
Benz[c] Acridine	U016	Toxic	1
Benzal Chloride	U017	Toxic	1
1,2-Benzathracene	U018	Toxic	1
Benzene	U019	Ignitable, Toxic	260
Benzenesulfonyl Chloride	U020	Corrosive, Reactive	1
Benzidine	U021	Toxic	1
3,4-Benzopyrene	U022	Toxic	1
Benzene, (trichloromethyl)-	U023	Corrosive	20
Bis(2-chloroethoxy) Methane	U024	Toxic	1
Dichloroethyl Ether	U025	Toxic	1
Chlornaphazine	U026	Toxic	1
Bis(2-chloroisopropyl) Ether	U027		1
Bis(2-ethylhexyl) Phthalate	U028	Toxic	1
Methyl Bromide	U029	Toxic	1
4-Bromophenyl Phenyl Ether	U030	Toxic	1
1-Butanol	U031	Ignitable	70
Chromic Acid, Calcium Salt	U032	Toxic	35
Carbonyl Fluoride	U033	Reactive, Toxic	1
Chloral	U034	Toxic	1
Chlorambucil	U035	Toxic	1
Chlordane, Technical	U036	Toxic	15
Chlorobenzene	U037	Toxic	65
Ethyl 4,4'-dichlorobenzilate	U038	Toxic	1
4-Chloro-m-cresol	U039	Toxic	1

(continued)

HAZARDOUS WASTE TABLE (continued)

Chemical Name	EPA Hazardous Waste Number	Hazard	Estimated Annual Quantity (in pounds)
Oxirane, 2-(chloromethyl)-	U041	Toxic	1
Ethane, 2-chloroethoxy-	U042	Toxic	1
Vinyl Chloride	U043	Toxic	1
Chloroform	U044	Toxic	1,100
Methyl Chloride	U045	Ignitable, Toxic	1
Methane, Chloromethoxy-	U046	Toxic	1
beta-Chloronaphthalene	U047	Toxic	4
o-Chlorophenol	U048	Toxic	1
Benzenamine, 4-chloro-2-methyl	U049	Toxic	1
Chrysene	U050	Toxic	1
Creosote	U051	Toxic	1
Cresols	U052	Toxic	28
2-Butenal	U053	Toxic	1
Cumene	U055	Ignitable	1
Cyclohexane	U056	Ignitable	200
Cyclohexanone	U057	Ignitable	44
Cyclophosphamide	U058	Toxic	1
Daunomycin	U059	Toxic	1
DDD	U060	Toxic	1
DDT	U061	Toxic	1
Diallate	U062	Toxic	1
Dibenz[a,]anthracene	U063	Toxic	1
Dibenz[a,i]pyrene	U064	Toxic	1
1,2-Dibromo-3-chloropropane	U066	Toxic	1
Ethylene Dibromide	U067	Toxic	2
Methylene Bromide	U068	Toxic	1
Dibutyl Phthalate	U069	Toxic	3

(continued)

HAZARDOUS WASTE TABLE (continued)

Chemical Name	EPA Hazardous Waste Number	Hazard	Estimated Annual Quantity (in pounds)
Benzene, 1,2-dichloro-	U070	Toxic	4
m-Dichlorobenzene	U071	Toxic	15
p-Dichlorobenzene	U072	Toxic	2
3,3'-Dichlorobenzidine	U073	Toxic	1
1,4-Dichloro-2-butene	U074	Ignitable, Toxic	1
Dichlorodifluoromethane	U075	Toxic	1
Ethane, 1,1-dichloro-	U076	Toxic	3,000
Ethylene Dichloride	U077	Toxic	1
1,1-Dichloroethylene	U078	Toxic	1
1,2-Dichloroethylene	U079	Toxic	1
Methane, dichloro-	U080	Toxic	815
2,4-Dichlorophenol	U081	Toxic	1
2,6-Dichlorophenol	U082	Toxic	1
Propylene Dichloride	U083	Toxic	1
1,3-Dichloropropene	U084	Toxic	1
2,2'-Bioxirane	U085	Ignitable, Toxic	1
N,N-Diethyldiazine	U086	Toxic	1
O,O-Diethyl-S-methyl-dithiophosphate	U087	Toxic	1
Diethyl Phthalate	U088	Toxic	2
Diethylstilbestrol	U089	Toxic	1
Dihydrosafrole	U090	Toxic	1
3,3'-Dimethoxybenzidine	U091	Toxic	1
Dimethylamine	U092	Toxic	1
Dimethylaminoazobenzene	U093	Toxic	1
7,12-Dimethylbenz[a]anthracene	U094	Toxic	1
3,3'-Dimethylbenzidine	U095	Toxic	1
alpha, alpha-Dimethylbenzyl-	U096	Reactive	1,500

(continued)

HAZARDOUS WASTE TABLE (continued)

Chemical Name	EPA Hazardous Waste Number	Hazard	Estimated Annual Quantity (in pounds)
hydroperoxide			
Dimethylcarbamoyl Chloride	U097	Toxic	1
1,1-Dimethylhydrazine	U098	Toxic	3
1,2-Dimethylhydrazine	U099	Toxic	1
2,4-Dimethylphenol	U101	Toxic	2
Dimethyl Phthalate	U102	Toxic	1
Dimethyl Sulfate	U103	Toxic	1
2,4-Dinitrotoluene	U105	Toxic	1
2,6-Dinitrotoluene	U106	Toxic	1
Din-n-octyl phthalate	U107	Toxic	1
1,4-Dioxane	U108	Toxic	15
1,2-Dephenylhydrazine	U109	Toxic	1
Dipropylamine	U110	Ignitable	1
Di-N-propylnitrosamine	U111	Toxic	1
Ethyl Acetate	U112	Ignitable	16,000
Ethyl Acrylate	U113	Ignitable	1
Ethylenebis(dithiocarbamic acid)	U114	Toxic	1
Oxirane	U115	Ignitable, Toxic	1
Ethylene Thiourea	U116	Toxic	1
Ethyl Ether	U117	Ignitable	485
Ethylmethacrylate	U118	Toxic	1
Ethyl Methanesulfonate	U119	Toxic	1
Fluoranthene	U120	Toxic	1
Trichloromonofluoromethane	U121	Toxic	1
Formaldehyde	U122	Toxic	200
Formic Acid	U123	Corrosive, Toxic	12
Furan	U124	Ignitable	2

(continued)

HAZARDOUS WASTE TABLE (continued)

Chemical Name	EPA Hazardous Waste Number	Hazard	Estimated Annual Quantity (in pounds)
2-Furancarboxaldehyde	U125	Ignitable	200
Glycidylaldehyde	U126	Toxic	1
Hexachlorobenzene	U127	Toxic	2
Hexachlorobutadiene	U128	Toxic	1
Lindane	U129	Toxic	1
Hexachlorocyclopentadiene	U130	Toxic	1
Hexachloroethane	U131	Toxic	1
Hexachlorophene	U132	Toxic	1
Hydrazine	U133	Toxic/Reactive	6
Hydrogen Fluoride	U134	Corrosive, Toxic	260
Hydrogen Sulfide	U135	Toxic	1
Cacodylic Acid	U136	Toxic	1
Ideno[1,2,3-cd] pyrene	U137	Toxic	1
Methane, iodo-	U138	Toxic	2
Iron Detran	U139	Toxic	1
Isobutyl Alcohol	U140	Ignitable, Toxic	3
Isosafrole	U141	Toxic	1
Kepone	U142	Toxic	1
Lasiocarpine	U143	Toxic	1
Lead Acetate	U144	Toxic	4
Phosphoric Acid, Lead Salt	U145	Toxic	8
Lead Subacetate	U146	Toxic	1
Maleic Hydrazine	U147	Toxic	2
Maleic Hydrazine	U148	Toxic	1
Malononitrile	U149	Toxic	1
Melphalon	U150	Toxic	4
Mercury	U151	Toxic	1,600

(continued)

HAZARDOUS WASTE TABLE (continued)

Chemical Name	EPA Hazardous Waste Number	Hazard	Estimated Annual Quantity (in pounds)
Methacrylonitrile	U152	Ignitable, Toxic	1
Methanethiol	U153	Ignitable, Toxic	1
Methyl Alcohol	U154	Ignitable	1,500
Methapyrilene	U155	Toxic	1
Methyl Chlorocarbonate	U156	Ignitable, Toxic	35
3-Methylcholanthrene	U157	Toxic	1
4,4'-Methylenebis (2-chloro-aniline)	U158	Toxic	1
Methyl Ethyl Ketone	U159	Ignitable, Toxic	1,100
2-Butanone Peroxide	U160	Reactive, Toxic	1
METHYL ISOBUTYL KETONE	U161	IGNITABLE, TOXIC	1
Methyl Methacrylate	U162	Ignitable, Toxic	1
Guanidine, N-nitroso-N-methyl-N'nitro	U163	Toxic	1
Methylthiouracil	U164	Toxic	1
Naphthalen	U165	Toxic	1
1,4-Naphthaquinone	U166	Toxic	1
1-Naphthylamine	U167	Toxic	1
2-Naphthylamine	U168	Toxic	1
Nitrobenzene	U169	Ignitable, Toxic	1
p-Nitrophenol	U170	Toxic	1
2-Nitropropane	U171	Toxic	1
N-Nitrosodi-n-butylamine	U172	Toxic	1
N-Nitrosodiethanolamine	U173	Toxic	1
N-Nitrosodiethylamine	U174	Toxic	1
N-Nitroso-N-ethylurea	U176	Toxic	1
N-Nitroso-N-methylurea	U177	Toxic	1
N-Nitroso-N-methylurthane	U178	Toxic	1
N-Nitrosopiperidine	U179	Toxic	1

(continued)

HAZARDOUS WASTE TABLE (continued)

Chemical Name	EPA Hazardous Waste Number	Hazard	Estimated Annual Quantity (in pounds)
N-Nitrosopyrrolidine	U180	Toxic	1
5-Nitro-o-toluidine	U181	Toxic	1
Paraldehyde	U182	Toxic	1,500
Pentachlorobenzene	U183	Toxic	2
Pentachloroethane	U184	Toxic	1
Pentachloronitrobenzene	U185	Toxic	1
1,3-Pentadiene	U186	Ignitable	1
Phenacetin	U187	Toxic	1
Phenol	U188	Toxic	4
Sulfur Phosphide	U189	Reactive	1
1,2-Benzenedicarboxylic Acid Anhydride	U190	Toxic	20
2-Picoline	U191	Toxic	1
Pronamide	U192	Toxic	1
1,3-Propane Sultone	U193	Toxic	1
1-Propanamine	U194	Ignitable, Toxic	1
Pyridine	U196	Toxic	175
p-Benzoquinone	U197	Toxic	1
Reserpine	U200	Toxic	1
Resorcinol	U201	Toxic	2
Saccharin and Salts	U202	Toxic	1
Safrole	U203	Toxic	1
Selenium Dioxide	U204	Toxic	2
Selenium Disulfide	U205	Reactive, Toxic	1
Streptozotocin	U206	Toxic	1
Benzene, 1,2,4,5-tetrachloro-	U207		1
1,1,1,2-Tetrachloroethane	U208	Toxic	1
1,1,2,2-Tetrachloroethane	U209	Toxic	20

(continued)

SOUTHWEST DISTRICT

HAZARDOUS WASTE TABLE (continued)

Chemical Name	EPA Hazardous Waste Number	Hazard	Estimated Annual Quantity (in pounds)
Tetrachloroethylene	U210	Toxic	1,500
Carbon Tetrachloride	U211	Toxic	140
Tetrahydrofuran	U213	Ignitable	1,200
Thallium (I) Acetate	U214	Toxic	1
Thallium (I) Carbonate	U215	Toxic	1
Thallium (I) Chloride	U216	Toxic	1
Thallium (I) Nitrate	U217	Toxic	1
Thioacetamide	U218	Toxic	1
Thiourea	U219	Toxic	1
Toluene	U220	Toxic	2,200
Toluenediamine	U221	Toxic	2
O-Toluidine Hydrochloride	U222	Toxic	1
Toluene Diisocyanate	U223	Reactive, Toxic	1
Bromoform	U225	Toxic	1
1,1,1-Trichloroethane	U226	Toxic	4,500
1,1,2-Trichloroethane	U227	Toxic	40
Trichloroethylene	U228	Toxic	1,530
Sym-Trinitrobenzene	U234	Reactive, Ignitable	1
Tris(2,3-dibromopropyl) Phosphate	U235	Toxic	1
Typan Blue	U236	Toxic	1
Uracil Mustard	U237	Toxic	1
Ethyl Carbamate (urethan)	U238	Toxic	1
Xylene	U239	Ignitable	1,155
2,44-D, Salts and Esters	U240	Toxic	1
Hexachloropropene	U243	Toxic	1
Thiram	U244	Toxic	1
Cyanogen Bromide	U246	Toxic	1

(continued)

HAZARDOUS WASTE TABLE (continued)

Chemical Name	EPA Hazardous Waste Number	Hazard	Estimated Annual Quantity (in pounds)
Methoxychlor	U247	Toxic	1
Warfarin	U248	Toxic	1
Zinc Phosphide	U249	Toxic	1
Benomyl	U271	Toxic	1
Bendiocarb	U278	Toxic	1
Carbaryl	U279	Toxic	1
Barban	U280	Toxic	1
Bendiocarb phenol	U364	Toxic	1
Carbofuran phenol	U367	Toxic	1
Carbendazim	U372	Toxic	1
Propham	U373	Toxic	1
Prosulfocarb	U387	Toxic	1
Triallate	U389	Toxic	1
A2213	U394	Toxic	1
Diethylene glycol, dicarbamate	U395	Toxic	1
Triethylamine	U404	Toxic	1
2,4,6-Tribromophenol	U408	Toxic	1
Thiophanate-methyl	U409	Toxic	1
Thiodicarb	U410	Toxic	1
Propoxur	U411	Toxic	1

(continued)

SECTION J

SOLID WASTE MANAGEMENT UNITS

J-1 Introduction

This section addresses the information on the WPAFB solid waste management units (SWMUs). The initial phase of the RCRA corrective action program [the RCRA Facility Assessment (RFA)] was prepared in September 1988. The objective of the RFA was to identify all SWMUs operated at WPAFB, and to evaluate all available information pertaining to each SWMU, and to assess the possibility of releases of hazardous waste or constituents from each SWMU.

J-2 SWMU Descriptions

The RFA (September 1988) identified a comprehensive list of potential SWMUs. Since that time a number of the potential SWMUs (e.g., underground storage tanks) have been removed or closed under other existing regulations. On May 24, 1991, WPAFB entered in an agreement with Region 5 to integrate the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) response obligations and RCRA corrective action obligations. A copy of the relevant portion of this agreement is included as Appendix J-1. Appendix J-2 presents a current list of potential SWMUs at WPAFB.

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APPENDIX J-1
CONSENT AGREEMENT

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21. STATUTORY COMPLIANCE / RCRA-CERCLA INTEGRATION

21.1 - The Parties intend to integrate the Air Force's CERCLA response obligations and RCRA corrective action obligations which relate to the release(s) of hazardous substances, hazardous wastes, pollutants or contaminants covered by this Agreement into this comprehensive Agreement. Therefore, the Parties intend that activities covered by this Agreement will achieve compliance with CERCLA, 42 U.S.C. §9601 et seq.; satisfy the corrective action requirements of Sections 3004(u) and (v) of RCRA, 42 U.S.C. §6924(u) and (v), for a RCRA permit, and RCRA Section 3008(h), 42 U.S.C. §6928(h); for interim status facilities; and meet or exceed all applicable or relevant and appropriate Federal and State laws and regulations, to the extent required by Section 121 of CERCLA, 42 U.S.C. §9621.

21.2 - Based upon the foregoing, the Parties intend that any remedial action selected, implemented and completed under this Agreement will be protective of human health and the environment such that remediation of releases covered by this Agreement shall obviate the need for further corrective action under RCRA (i.e., no further corrective action shall be required). The Parties agree that with respect to releases of hazardous waste covered by this Agreement, RCRA shall be considered an applicable or relevant and appropriate requirement pursuant to Section 121 of CERCLA, 42 U.S.C. §9621.

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APPENDIX J-2
CURRENT POTENTIAL SWMUs

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OIL SEPARATOR DATA

SEPARATOR	LOCATION	SIZE	TYPE	REMARKS
3-154A	POL Tank Farm Area C A	1,800	San	
3-154B	POL Tank Farm Area C A	15,000	Storm	
3-154C	POL Tank Farm Area C A	1,000	Sanitary	Removed
3-West Ramp	Taxiway, West Ramp Area C	6 ea., 2,400- 14,400	Storm	Continuously Running
3-4044	Bldg 4044 Area C A	1,200	San	
3-4026	Bldg 4026 Area C A	2,700	San	
3-4022	Bldg 4022 Area C A	2,700	San	
3-4033	Bldg 4033 Area C A	1,000	Storm	Removed
3-4020A	Bldg 4020 Area C A	500	San	Has Oil Storage Tank
3-4020B	Bldg 4020 Area C A	150	San	Has Oil Storage Tank
3-106	Bldg 106 Area C A	1,600	San	Abandoned
2-71BA	Bldg 71B Area B	6,000	San	No Longer In Service
2-71BB	Bldg 71 B Area B	6,000	San	No Longer In Service
3-13A	Bldg 13 Area C A	1,100	San	Contains Sewage
3-13B	Bldg 13 Area C A	1,000	San	Grit from Vehicle Wash
2-18C	Bldg 18C Area B	2,000	San	Has Oil Storage Tank
2-18D	Bldg 18D-G Area B	6,000	San	Has Oil Storage Tank
1-879	Bldg 879 Area A	1,200	San	
3-109	Bldg 109 Area C A	900	San	
3-60	Bldg 60 Area C A	2,500	San	

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SEPARATOR	LOCATION	SIZE	TYPE	REMARKS
2-38	Bldg 38 Area B	1,200	San	
2-448	Bldg 448 Area B	900	San	Abandoned
2-464	Bldg 464 Area B	500	San	Removed
2-B & F	Bldg 21 Area B	3,600	Storm	Has Oil Storage
3-119	Bldg 119 Area C A	500	San	Removed
3-4024	Bldg 4024 Area C A	4,500	San	
3-169	Bldg 169 Area C A	Unknown		Abandoned
3-1244D	Bldg 1244 Area C A	1,000	San	Has Oil Storage Tank
2-94A	Bldg 94 Area B	600	San	
2-94C	Gun Range Area B	1,500	Storm	No Longer In Service
2-94B	Gun Range Area B	15,000	Storm	
2-94D	Gun Range Area B	1,500	Storm	No Longer In Service
No Number	Fire Training Fac Area A	200	Storm	Removed
2-490A	Bldg 490 Area B	60	San	Has Oil Storage Tank
2-490B	Bldg 490 Area B	1,800	San	Has Bentonite Sealer and Oil Storage Tank
3-901	Bldg 901 Area C A	600	San	

3-55	Bldg 55 Area C A	5,500	San	Has Oil Storage Tank
2-92	Bldg 92 Area B	6,000	Storm	Has Oil Storage Tank
3-143	Bldg 143 Area C A	800	San	
2-Storm	5th & C St. Area B	6 ea. 2,400- 14,400	Storm	Removed
3-151	Bldg 151 Area C A	1,000	San	Has Oil Storage Tank

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SEPARATOR	LOCATION	SIZE	TYPE	REMARKS
3-144	Bldg 144 Area C A	750	San	No Longer In Service
3-93	Bldg 93 Area C A	1,000	San	
3-4021	Bldg 4021 Area C A	1,000	San	
3-148	Bldg 148 Area C A	1,000	San	
3-268	Bldg 268 Area C A	1,000	San	No Longer In Service
2-201	Bldg 201 Area B	2,000	Sanitary	Has Oil Storage Tank
3-256	Adjacent to Bldg 256 Area C A	2,000	Sanitary	
1-880	Bldg 880 Area A	550	Storm	Installed After 2001
3-4015	Bldg 4015 Area C A	4,500	San	Installed After 2001
3-4016	Bldg 4016 Area C A	5,000	San	Installed After 2001
3-1253	Bldg 1253 Area C A	285	San	Installed After 2001
2-86G	Bldg 86G Area B	30,000	Storm	Installed After 2001

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SETTLING BASIN DATA

LOCATION	SIZE	SLUDGE MATERIAL	TYPE	REMARKS
Bldg 1084 Area C A Basin 3-1084	50	Ceramic dust	San	No Longer In Service
Bldg 770 Area B Basin 2-770	170,000	Coal Dust Plus Soot	Storm	Continuously Running
Bldg 1240 Area C A Basin 3-1240	200,000	Coal, Ash Dust Plus Soot	Storm	
Bldg 38 Area B Basin 2-38	750	Grit from Vehicle Wash Rack	San	
Bldg 60 Area C A Basin 3-60	150	Grit from Vehicle Wash Rack	San	
Bldg 876 Area A Basin 3-876	200	Grit from Vehicle Wash Rack	San	No Longer In Service
Bldg 876 Manhole on Area A Sewer Basin 3-876B	75	Grit from Vehicle Wash Rack from Bldg 879	San	No Longer In Service
Bldg 879 Area C A Basin 3-879	75	Grit from Vehicle Wash Rack	San	Removed
Bldg 91 Area C A Basin 3-91	150	Grit and Sludge	San	
Bldg 93 Area C A Basin 3-93	150	Grit and Sludge	San	
Bldg 20A Area B Basin 2-20A	3,000		No Discharge	
Bldg 152 Area C A Basin 3-152	500	Grit From Vehicle Wash Rack	San	
Bldg 1244 Area C A Basin 3-1244A	50	Grit From Vehicle Wash Rack	San	

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LOCATION	SIZE	SLUDGE MATERIAL	TYPE	REMARKS
Bldg 1244 Area C A Basin 3-1244B	50	Grit From Vehicle Wash Rack	San	

ELEMENTARY NEUTRALIZATION UNITS

LOCATION	SIZE	REMARKS
Bldg 20651	550	In Use
Bldg 20652	550	In Use
Bldg 20654	550	In Use
Bldg 20655	550	In Use
Bldg 20450	350	In Use
Bldg 20620	5	In Use
Bldg 20840	450	Installed
Bldg 20056	7,000	Out of Service

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STORAGE TANKS LIST 1

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TANK NO.	SITE NO.	CAPACITY	CONST MATL	USED BY	PRESENT CONTENTS	REMOVED?
1	30260	275	STEEL	88 ABW/CE	REMOVED	Y
2	34024	275	STEEL	445 AW/MA	EMPTY	Y
3	34024	275	STEEL	445 AW/MA	EMPTY	Y
4	34024	275	STEEL	445 AW/MA	EMPTY	Y
5	34024	50	STEEL	88 ABW/CE	DIESEL	Y
6	34024	650	STEEL	88 ABW/CE	REMOVED	Y
7	34024	1500	STEEL	88 ABW/CE	AQUEOUS FILM FORMING FOAM	N
8	34051	2000	2W STEEL	88 MSG/LG	LIQ. OXYGEN	Y
9	34051	5000	2W STEEL	88 MSG/LG	LIQ. OXYGEN	Y
10	34047	2000	2W STEEL	88 MSG/LG	LIQ. NITROGEN	Y
11	34047	2000	2W STEEL	88 MSG/LG	LIQ. NITROGEN	Y
12	34053	275	STEEL	88 SFS	REMOVED	Y
13	10876	275	STEEL	88 ABW/CE	DIESEL	Y
14	10878	300	STEEL	88 FSS/SV	REMOVED	Y
15	10878	275	STEEL	88 FSS/SV	REMOVED	Y
16	10298	1000	STEEL	88 ABW/CE	REMOVED	Y
17	20057	275	STEEL	AFRL/RB	DIESEL	Y
18	30013	550	STEEL	88 MSG/LG	REMOVED	Y
19	30013	880	STEEL	445 TW/MA	REMOVED	Y
20	30013	750	STEEL	445 TW/MA	REMOVED	Y
21	30013	650	STEEL	445 TW/MA	REMOVED	Y
22	30013	55	STEEL	445 TW/MA	REMOVED	Y
24	30013	150	STEEL	445 TW/MA	REMOVED	Y
25	30013	120	STEEL	445 TW/MA	REMOVED	Y
26	30013	660	STEEL	445 TW/MA	REMOVED	Y
27	30013	30	STEEL	445 AW/MS/LG	NON-HAZ FLOURESC	Y
28	30013	30	STEEL	445 AW/MS/LG	DYE REMOVER	Y
29	30013	30	STEEL	445 AW/MS/LG	CHROMATE SOLUTION	Y
30	30013	30	HDPE	445 AW/MS/LG	PHOTOGRAPHIC FIXER	Y
31	30013	30	HDPE	445 AW/MS/LG	PHOTOGRAPHIC DEV	Y
32	30013	150	STEEL	445 AW/MS/LG	PD-680 SOLVENT	Y
33	30142	1000	STEEL	88 ABW/CE	EMPTY	N
34	30149	350	STEEL	88 ABW/CE	DIESEL	N
35	30110	100	STEEL	88 ABW/CE	DIESEL	N
36	30851	500	STEEL	88 ABW/CE	DIESEL	Y
37	30170	1000	2W STEEL	88 ABW/CE	DIESEL	Y
38	30170	100	STEEL	88 ABW/CE	DIESEL	N
39	30168	25	STEEL	88 ABW/CE	DIESEL	N
40	10840	650	STEEL	88 ABW/CE	DIESEL	N
41	10840	650	STEEL	88 ABW/CE	DIESEL	N

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STORAGE TANKS LIST 1

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42	10830	350	STEEL	88 ABW/CE	DIESEL	N
43	10830	350	STEEL	88 ABW/CE	DIESEL	N
44	10830	350	STEEL	88 ABW/CE	DIESEL	Y
45	10277	275	STEEL	88 ABW/CE	DIESEL	Y
46	10266	200	STEEL	88 ABW/CE	DIESEL	N
47	10271	200	STEEL	88 ABW/CE	DIESEL	N
48	10271	200	STEEL	88 ABW/CE	DIESEL	N
49	11456	273	STEEL	88 ABW/CE	REMOVED	Y
50	10856	30	STEEL	88 ABW/CE	DIESEL	Y
51	30117	200	STEEL	88 ABW/CE	DIESEL	N
52	30964	300	STEEL	88 ABW/CE	REMOVED	Y
53	30018	50	STEEL	88 ABW/CE	DIESEL	N
54	30971	275	STEEL	88 ABW/CE	REMOVED	Y
55	34010	50	STEEL	88 ABW/CE	DIESEL	N
56	34041	100	STEEL	88 ABW/CE	DIESEL	Y
57	34041	500	STEEL	88 OSS/OS	PROPANE	Y
58	34052	100	STEEL	88 ABW/CE	DIESEL	N
59	30962	50	STEEL	88 ABW/CE	DIESEL	N
60	30967	275	STEEL	88 ABW/CE	REMOVED	Y
61	31240	200	STEEL	88 ABW/CE	REMOVED	Y
62	31240	200	STEEL	88 ABW/CE	REMOVED	Y
63	30154	275	STEEL	88 ABW/CE	REMOVED	Y
64	31240	160	STEEL	88 ABW/CE	HF 165-BIODEGRADA	Y
65	31241	230	STEEL	88 ABW/CE	ANTIFREEZE	N
69	31244	275	STEEL	88 ABW/CE	REMOVED	Y
70	31244	550	STEEL	88 ABW/CE	REMOVED	Y
			FIBER			
			REINFORCED			
71	31229	1000	PLASTIC	88 ABW/CE	BRINE	N
72	10894	275	STEEL	88 ABW/CE	REMOVED	Y
73	10894	275	STEEL	88 ABW/CE	REMOVED	Y
74	10894	300	STEEL	GOLF COURSE	REGULAR GASOLINE	Y
75	10894	300	STEEL	TWIN BASE GOLF	DIESEL	Y
76	30199	275	STEEL	88 ABW/CE	DIESEL	Y
87	30151	250	STEEL	88 MSG/LG	REMOVED	Y
88	30153	335	ALUMINUM	88 FSS/SV	REMOVED	Y
89	30017	300	STEEL	88 ABW/CE	REMOVED	Y
90	20022B	1000	STEEL	AFRL/RZ	PROPANE	N
91	30060	500	STEEL	88 MSG/LG	REMOVED	Y
92	20770	3000	STEEL	STEAM PLANT	SULFURIC ACID	Y
93	10877	270	STEEL	CE PAVE/GROUNDS	REMOVED	Y

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STORAGE TANKS LIST 1

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94	30093	500	STEEL	88 ABW/CE	EMPTY	Y
104	30023	275	STEEL	88 ABW/CE	UNK	Y
105	30154	275	STEEL	88 MSG/LG	USED FUEL	Y
106	34028	600	STEEL	MAINT. DOCK	REMOVED	Y
107	34030	90	STEEL	88 MSG/LG	REMOVED	Y
108	34030	200	STEEL	88 MSG/LG	REMOVED	Y
111	30046	275	STEEL	88 ABW/CE	REMOVED	Y
113	31216	1050	STEEL	88 ABW/CE	REMOVED	Y
114	30892	275	STEEL	88 ABW/CE	REMOVED	Y
115	30891	275	STEEL	88 ABW/CE	REMOVED	Y
116	34012	275	STEEL	HEATING PLANT	REMOVED	Y
117	34012	5000	STEEL	88 ABW/CE	EMPTY	N
118	34012	5000	STEEL	88 ABW/CE	EMPTY	N
119	11457	275	STEEL	AT&T	EMPTY	Y
120	30898	275	STEEL	88 ABW/CE	REMOVED	Y
121	30019	750	HDPE	88 ABW/CE	MURIATIC ACID/SODA (MIX)	N
122	30019	750	HDPE	88 ABW/CE	MURIATIC ACID	N
123	20652	970	HDPE	AFRL/RX	NONE	Y
124	20094	4000	STAINLESS STEEL	780 TS/OL-AC	JP-4	Y
125	10840	1573	STEEL	88 ABW/CE	EMPTY	Y
126	10830	3125	STEEL	MED CENTER	LIQ. OXYGEN	N
127	10830	1500	STEEL	MED CENTER	LIQ. OXYGEN	N
128	10830	25	PLASTIC	MED CENTER	RADIOGRAPHIC FIXER	Y
129	10830	25	PLASTIC	MED CENTER	RADIOGRAPHIC FIXER	Y
130	10830	25	PLASTIC	MED CENTER	RADIOGRAPHIC FIXER	Y
131	10830	25	PLASTIC	MED CENTER	RADIOGRAPHIC FIXER	Y
132	10830	25	PLASTIC	MED CENTER	RADIOGRAPHIC FIXER	Y
133	10830	25	PLASTIC	MED CENTER	RADIOGRAPHIC FIXER	Y
134	10830	25	PLASTIC	MED CENTER	RADIOGRAPHIC FIXER	Y
135	10830	25	PLASTIC	MED CENTER	RADIOGRAPHIC FIXER	Y
136	10830	25	PLASTIC	MED CENTER	RADIOGRAPHIC FIXER	N
137	10830	25	PLASTIC	MED CENTER	RADIOGRAPHIC FIXER	N
138	10830	25	PLASTIC	MED CENTER	RADIOGRAPHIC FIXER	N
139	10830	25	PLASTIC	MED CENTER	RADIOGRAPHIC FIXER	N
140	10813	275	STEEL	88 ABW/CE	REMOVED	Y
141	10857	14	2W STEEL	88 ABW/CE	LIQ. CARBON DIOXIDE	N
142	30172	6	2W STEEL	88 ABW/CE	LIQ. CARBON DIOXIDE	N
143	20450	300	STEEL	AFRL/RZ	LIQ. NITROGEN	Y
144	20490	11000	STEEL	AFRL/RZ	LIQ. NITROGEN	N
145	20071A	10500	STEEL	AFRL/RX	LIQ. NITROGEN	N
146	20042	2200	HDPE	88 ABW/CE	REMOVED	Y

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STORAGE TANKS LIST 1

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147	30017	160	STEEL	88 ABW/CE	DIESEL	Y
150	20042	2200	HDPE	88 ABW/CE	REMOVED	Y
151	20042	6	STEEL	88 ABW/CE	CARBON DIOXIDE	Y
152	20042	5600	HDPE	88 ABW/CE	REMOVED	Y
153	20071A	5000	STEEL	AFRL/RZ	LIQ. CARBON DIOXIDE	Y
154	20071A	6000	STEEL	AFRL/RZ	NITROGEN	N
155	20071B	7500	STEEL	AFRL/RZ	HELIUM	N
156	20071A	2500	STEEL	AFRL/RZ	LIQ. CARBON DIOXIDE	N
157	20071B	2500	STEEL	AFRL/RZ	LIQ. CARBON DIOXIDE	N
158	30060	550	STEEL	88 MSG/LG	OIL (NEW)	Y
159	20038	165	STEEL	88 MSG/LG	USED OIL	N
160	20074	50	STEEL	88 ABW/CE	DIESEL	Y
161	20015	100	STEEL	88 ABW/CE	DIESEL	N
162	20014	25	STEEL	88 ABW/CE	EMPTY	Y
163	20011A	55	STEEL	88 ABW/CE	DIESEL	Y
164	20891	150	STEEL	88 ABW/CE	DIESEL	N
165	20079F	50	STEEL	88 ABW/CE	DIESEL	Y
166	20349	50	STEEL	88 ABW/CE	REMOVED	Y
167	20188	30	STEEL	88 ABW/CE	EMPTY	Y
168	20042	5000	STEEL	88 ABW/CE	JP-4	Y
169	20085A	1000	STEEL	88 ABW/CE	EMPTY	Y
170	20085A	300	STEEL	88 ABW/CE	EMPTY	Y
171	20620	20	STEEL	88 ABW/CE	DIESEL	N
172	20620	75	STEEL	88 ABW/CE	DIESEL	Y
173	20642	100	STEEL	88 ABW/CE	DIESEL	N
174	20838	275	STEEL	AFRL/RH	DIESEL	Y
182	34090	1000	STEEL	88 ABW/CE	REMOVED	Y
183	34090	1000	STEEL	88 ABW/CE	REMOVED	Y
184	34090	1000	STEEL	88 ABW/CE	REMOVED	Y
185	20025	125000	STEEL	AFRL/RB	EMPTY	Y
186	20025	125000	STEEL	AFRL/RB	EMPTY	Y
187	20025	125000	STEEL	AFRL/RB	EMPTY	Y
188	20025	125000	STEEL	AFRL/RB	EMPTY	Y
189	10298	1000	STEEL	88 ABW/CE	REMOVED	Y
190	10262	1500	HDPE	88 ABW/CE	EMPTY	N
193	5841	275	STEEL	88 ABW/CE	DIESEL	Y
194	20094	10000	STEEL	780 TS/OL-AC	USED FUEL	Y
195	20094	4000	STEEL	780 TS/OL-AC	JP-8	Y
196	20094	4000	STEEL	780 TS/OL-AC	JP-8	Y
197	20094	1000	STEEL	780 TS/OL-AC	REMOVED	Y
198	20094	1000	STEEL	780 TS/OL-AC	JP-8	N

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199	20094	1000	STEEL	780 TS/OL-AC	JP-8	N
200	20740	300	STEEL	88 ABW/CE	EMPTY	Y
201	20620	5000	STEEL	AFRL/RX	LIQ. NITROGEN	N
202	20620	5000	STEEL	AFRL/RX	LIQ. NITROGEN	N
203	20620	1500	STEEL	AFRL/RX	LIQ. NITROGEN	N
205	20018	990	STEEL	AFRL/RZ	PROPANE	N
206	30886	275	STEEL	88 ABW/CE	REMOVED	Y
			FIBER			
			REINFORCED			
207	10829	4500	PLASTIC	NAIC/MS	SALT WATER	N
208	34028	1200	STEEL	88 ABW/CE	AQUEOUS FILM FORMING FOAM	Y
209	34026	1200	STEEL	88 ABW/CE	AQUEOUS FILM FORMING FOAM	N
210	34022	1200	STEEL	88 ABW/CE	AQUEOUS FILM FORMING FOAM	Y
211	34020	1200	STEEL	88 ABW/CE	AQUEOUS FILM FORMING FOAM	N
212	30152	1200	STEEL	88 ABW/CE	AQUEOUS FILM FORMING FOAM	N
213	30091	1000	STEEL	88 ABW/CE	AQUEOUS FILM FORMING FOAM	N
214	20085A	6	2W STEEL	88 ABW/CE	LIQ. CARBON DIOXIDE	N
215	20021C	475	STEEL	AFRL/RZ	EMPTY	Y
216	20021	275	STEEL	AFRL/RZ	USED OIL	Y
217	10281	30	HDPE	DAPSDO	DEVELOPER	Y
218	10281	30	HDPE	DAPSDO	FIXER	Y
219	10281	50	HDPE	DAPSDO	FIXER	Y
220	10281	30	HDPE	DAPSDO	DEVELOPER	Y
221	20652	6000	STEEL	AFRL/RX	LIQ. NITROGEN	N
222	20651	1500	STEEL	AFRL/RX	LIQ. NITROGEN	N
223	20654	6000	STEEL	AFRL/RX	LIQ. NITROGEN	N
224	20653	1000	STEEL	AFRL/RX	LIQ. NITROGEN	N
225	20655	1500	STEEL	AFRL/RX	LIQ. NITROGEN	N
230	20094	1000	STEEL	780 TS/OL-AC	EMPTY	N
231	20094	17	STEEL	780 TS/OL-AC	LIQ. CARBON DIOXIDE	N
232	20094	24	STEEL	780 TS/OL-AC	LIQ. CARBON DIOXIDE	N
233	30881	5000	STEEL	88 ABW/CE	EMPTY	Y
234	20618	615	STEEL	711 HPW	CHLORINE	Y
235	20071B	4200	STEEL	AFRL/RZ	LIQ. CARBON DIOXIDE	Y
236	20018	900	STEEL	AFRL/RZ	EMPTY	Y
237	20018	1100	STEEL	AFRL/RZ	EMPTY	Y
238	20651	970	STEEL	AFRL/RX	LEFT OVER SLUDGE F	Y
239	20651	970	STEEL	AFRL/RX	NONE	Y
240	20652	970	STEEL	AFRL/RX	CAUSTIC SODA	Y
241	30300	5500	PLASTIC	88 ABW/CE	CALCIUM CHLORIDE	N
242	10866	250	STEEL	88 MSG/LG	EMPTY	Y

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243	10262	1500	STEEL	88 ABW/CE	EMPTY	Y
244	20682	100	NALGENE	ORGANIZATION NO LONGER ON BASE	CB-7R CLEANING BAT	Y
245	20682	100	NALGENE	ORGANIZATION NO LONGER ON BASE	D-96R DEVELOPER	Y
246	20682	100	PLASTIC	ORGANIZATION NO LONGER ON BASE	F-5 FIXER	Y
247	20682	100	NALGENE	ORGANIZATION NO LONGER ON BASE	LCP-R DEVELOPER	Y
248	20682	100	NALGENE	ORGANIZATION NO LONGER ON BASE	D-96R DEVELOPER	Y
249	30154	420000	STEEL	88 MSG/LG	JP-8	N
250	30154	420000	STEEL	88 MSG/LG	JP-8	N
251	30154	420000	STEEL	88 MSG/LG	JP-8	N
252	30154	420000	STEEL	88 MSG/LG	JP-8	N
253	30154	420000	STEEL	88 MSG/LG	AVGAS	N
254	30154	420000	STEEL	88 MSG/LG	JP-8	N
255	30154	420000	STEEL	88 MSG/LG	JP-8	N
256	30154	420000	STEEL	88 MSG/LG	JP-8	N
257	30154	420000	STEEL	88 MSG/LG	JP-8	N
258	30154	420000	STEEL	88 MSG/LG	JP-8	N
259	20453	30	RESIN	88 ABW/CE	SODIUM CHLORIDE	Y
260	20770	3000	STEEL	STEAM PLANT	SULFURIC ACID	Y
261	20770	1500	STEEL	STEAM PLANT	REMOVED	Y
262	20770	300	STEEL	STEAM PLANT	REMOVED	Y
263	20770	275	STEEL	STEAM PLANT	EMPTY	Y
264	20770	600	STEEL	STEAM PLANT	REMOVED	Y
265	20450	750	2W STEEL	AFRL/RZ	LIQ. NITROGEN	Y
			FIBER			
			REINFORCED			
266	20450	22	PLASTIC	AFRL/RZ	SALT BRINE	N
267	20450	1700	2W STEEL	AFRL/RZ	LIQ. NITROGEN	Y
268	20450	500	2W STEEL	AFRL/RZ	LIQ. NITROGEN	N
269	20060	2000	STEEL	AFRL/RB	HYDRAULIC OIL	N
270	20060	2000	STEEL	AFRL/RB	HYDRAULIC OIL	N
271	30154	840000	STEEL	88 MSG/LG	JP-8	N
272	30154	210000	STEEL	88 MSG/LG	DIESEL	N
273	20068	10000	2W STEEL	AFRL/RB	LIQ. NITROGEN	N
274	20068	10000	2W STEEL	AFRL/RB	LIQ. NITROGEN	N
275	20068	275	STEEL	88 ABW/CE	DIESEL	Y
276	20449	1500	2W STEEL	AFRL/RB	LIQ. NITROGEN	N

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277	20079B	10000	STEEL	NHRC	EMPTY	Y
278	30172	500	STEEL	88 ABW/CE	DIESEL	N
279	20065	1500	2W STEEL	AFRL/RB	LIQ. NITROGEN	N
280	20065	10000	2W STEEL	AFRL/RB	LIQ. NITROGEN	Y
281	20065	1600	STEEL	AFRL/RB	HELIUM	Y
282	20065	1600	STEEL	AFRL/RB	HELIUM	Y
285	20065	250	STEEL	AFRL/RB	JP-8	Y
289	20079	10	STEEL	NHRC	EMPTY	N
290	20156	275	STEEL	88 ABW/CE	REMOVED	Y
291	30208	1000	STEEL	88 MSG/LG	REMOVED	Y
292	20071B	1000	STEEL	AFRL/RZ	DIESEL	N
293	20156	450	STEEL	88 ABW/CE	GASOLINE	Y
294	30268	1100	STEEL	88 ABW/CE	AQUEOUS FILM FORMING FOAM	N
295	30145	600	STEEL	445 TW/OM	EMPTY	Y
296	30145	750	STEEL	445 TW/OM	EMPTY	Y
297	30144	2500	STEEL	ORGANIZATION NO LONGER ON BASE	JP-4	Y
298	20824	400	STEEL	711 HPW	HYDRAULIC OIL	N
299	20824	300	STEEL	711 HPW	HYDRAULIC OIL	N
307	30256	650	STEEL	445 TW/MA	JP-8	Y
308	30256	4	STEEL	445 TW/MA	EMPTY	Y
309	20004D	100	STEEL	NMUSAF	PD-680 SOLVENT	N
310	30154	15000	STEEL	88 MSG/LG	MOGAS	N
311	20005	34900	STEEL	445 TW/AM	LIQ. NITROGEN	Y
312	30170	3000	STEEL	88 ABW/CE	SULFURIC ACID	Y
313	20743	300	STEEL	DRMO	HEATING OIL	Y
314	20741	275	STEEL	DRMO	DIESEL	Y
315	20741	275	STEEL	DRMO	REMOVED	Y
316	20025D	275	STEEL	AFRL/RB	USED OIL	N
336	20618	2300	STEEL	711 HPW	EMPTY	Y
353	20004E	250	ALUMINUM	NMUSAF	USED OIL	Y
354	20490	1000	STEEL	AFRL/RZ	PROPANE	N
380	10866	250	STEEL	88 MSG/LG	EMPTY	Y
381	20640	360	PLASTIC	88 ABW/CE	SALT BRINE	Y
382	20684	160	PLASTIC	88 ABW/CE	BRINE	Y
383	20684	160	PLASTIC	88 ABW/CE	BRINE	Y
384	20127	300	PLASTIC	88 ABW/CE	SALT BRINE	Y
385	20011	300	PLASTIC	88 ABW/CE	SALT BRINE	Y
386	20485	160	PLASTIC	88 ABW/CE	SALT BRINE	Y
387	20020	250	PLASTIC	88 ABW/CE	SALT BRINE	Y
388	20240	195	PLASTIC	88 ABW/CE	LIQ. CHLORINE	N

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389	20240	195	PLASTIC	88 ABW/CE	LIQ. CHLORINE	N
390	20240	50	PLASTIC	88 ABW/CE	LIQ. CHLORINE	N
391	20240	50	PLASTIC	88 ABW/CE	LIQ. CHLORINE	N
392	20240	50	PLASTIC	88 ABW/CE	LIQ. CHLORINE	N
393	20453	50	PLASTIC	88 ABW/CE	FLUORIDE	Y
394	20016	120	PLASTIC	88 ABW/CE	SALT BRINE	N
395	20740	5400	PLASTIC	88 ABW/CE	CALCIUM CHLORIDE	N
396	20745	275	STEEL	88 ABW/CE	REMOVED	Y
397	20745	275	STEEL	88 ABW/CE	REMOVED	Y
398	20015	120	HDPE	88 ABW/CE	SALT BRINE	N
399	20014	180	HDPE	88 ABW/CE	SALT BRINE	N
413	20072	850	STAINLESS STEEL	445 TW/AM	REMOVED	Y
414	20072	550	STEEL	445 TW/AM	REMOVED	Y
415	20005	250	2W STEEL	445 TW/AM	EMPTY	Y
416	20005	540	STEEL	NMUSAF	REMOVED	Y
417	20005	540	STEEL	NMUSAF	REMOVED	Y
418	20005	330	STEEL	445 TW/AM	EMPTY	Y
419	20005	800	STEEL	NMUSAF	EMPTY	Y
420	20005	540	STEEL	NMUSAF	REMOVED	Y
421	20005	450	STEEL	NMUSAF	REMOVED	Y
422	20005	450	STEEL	445 TW/AM	EMPTY	Y
423	20005	450	STEEL	NMUSAF	EMPTY	Y
424	20005	450	STEEL	445 TW/AM	EMPTY	Y
425	20005	330	STEEL	445 TW/AM	EMPTY	Y
426	20005	330	STEEL	445 TW/AM	EMPTY	Y
427	20005	330	STEEL	445 TW/AM	EMPTY	Y
428	20005	330	STEEL	445 TW/AM	EMPTY	Y
429	20005	330	STAINLESS STEEL	445 TW/AM	EMPTY	Y
430	20005	330	STEEL	445 TW/AM	EMPTY	Y
431	10849	55	HDPE	88 FSS/SV	LIQ. CHLORINE	N
432	10849	350	HDPE	88 FSS/SV	LIQ. CHLORINE	N
433	10829	500	STEEL/CONCRETE	88 ABW/CE	FUEL OIL	N
434	10849	195	HDPE	88 FSS/SV	LIQ. CHLORINE	N
435	10849	195	HDPE	88 FSS/SV	LIQ. CHLORINE	N
436	10888	130	HDPE	88 FSS/SV	LIQ. CHLORINE	N
437	10888	130	HDPE	88 FSS/SV	LIQ. CHLORINE	N
438	10888	130	HDPE	88 FSS/SV	LIQ. CHLORINE	N
439	20025	4000	STEEL	AFRL/RB	EMPTY	Y
452	20329	275	STEEL	88 ABW/CE	DIESEL	Y
453	30059	500	STEEL	731 ORD	DIESEL	Y

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467	20018B	1500	STEEL	AFRL/RZ	LIQ. NITROGEN	N
468	20018E	2500	2W STEEL	AFRL/RZ	LIQ. OXYGEN	N
469	20018G	1700	STEEL	AFRL/RZ	LIQ. CARBON DIOXIDE	N
471	20490	275	STEEL	AFRL/RZ	DIESEL	N
472	20018	500	HDPE	AFRL/RZ	REMOVED	Y
473	20031	150	STEEL	46 TG/OL	SAFETY KLEEN 105	N
474	20031	50	STEEL	46 TG/OL	SOLVENT	Y
477	20020A	4200	CONCRETE	AFRL/RZ	USED OIL	N
479	20023	1000	STEEL	AFRL/RB	FREON R-11	Y
481	20641	80	STAINLESS STEEL	AFRL/RZ	LIQ. NITROGEN	N
482	20641	80	STAINLESS STEEL	AFRL/RZ	LIQ. NITROGEN	N
483	20641	80	STAINLESS STEEL	AFRL/RZ	LIQ. NITROGEN	N
484	20641	80	STAINLESS STEEL	AFRL/RZ	LIQ. NITROGEN	N
485	20641	80	STAINLESS STEEL	AFRL/RZ	LIQ. NITROGEN	N
486	20071D	1000	HDPE	AFRL/RZ	EMPTY	Y
487	20254	3000	STEEL	AFRL/RZ	LIQ. NITROGEN	N
488	20020	25	HDPE	88 CG/SCCV	STABILIZER	Y
489	20020	30	HDPE	88 CG/SCCV	BLEACH FIXER	Y
490	20020	30	HDPE	88 CG/SCCV	DEVELOPER	Y
491	20020	25	HDPE	88 CG/SCCV	BLEACHER	Y
492	20020	25	HDPE	88 CG/SCCV	STABILIZER	Y
502	31248	195	HDPE	88 FSS/SV	LIQ. CHLORINE	Y
503	31248	130	HDPE	88 FSS/SV	LIQ. CHLORINE	Y
504	31248	130	HDPE	88 FSS/SV	LIQ. CHLORINE	Y
505	31248	55	HDPE	88 FSS/SV	LIQ. CHLORINE	Y
572	30029	11200	HDPE	88 ABW/CE	POTASSIUM ACETATE	N
573	10293	1500	2W STEEL	88 FSS/SV	USED OIL	N
			2W FIBER			
			REINFORCED			
574	20770	3000	PLASTIC	STEAM PLANT	EMPTY	Y
575	20094	4000	2W STEEL	780 TS/OL-AC	JP-8	N
576	34091	10000	STEEL	88 ABW/CE	LPG	N
577	30060	80	STEEL	88 MSG/LG	NATURAL GAS	Y
578	30060	80	STEEL	88 MSG/LG	NATURAL GAS	Y
579	30060	80	STEEL	88 MSG/LG	NATURAL GAS	Y
			2W			
580	10061	500	STEEL/CONCRETE	88 FSS/SV	UNLEADED	N
581	30884	1000	2W STEEL	88 ABW/CE	DIESEL	Y
582	30154	25000	STEEL	88 MSG/LG	POLYPROPYLENE GLYCOL	N
583	30154	25000	STEEL	88 MSG/LG	POLYPROPYLENE GLYCOL	N

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584	20838	2000	2W STEEL/CONCRETE	711 HPW	DIESEL	N
585	5841	500	2W STEEL/CONCRETE	88 ABW/CE	DIESEL	N
586	355	1000	2W STEEL/CONCRETE	88 ABW/CE	FUEL OIL	Y
587	20085A	275	2W STEEL/CONCRETE	88 ABW/CE	DIESEL	Y
588	30119	500	2W STEEL/CONCRETE	88 FSS/(AERO CLUB)	USED OIL	N
589	10293	500	2W STEEL/CONCRETE	88 FSS/SV	EMPTY	N
590	30093	350	STEEL	88 MSG/LG	USED OIL	Y
591	10878	1000	2W STEEL/CONCRETE	88 FSS/SV	GASOLINE	N
592	10878	1000	2W STEEL/CONCRETE	88 FSS/SV	DIESEL	N
593	30964	500	2W STEEL/CONCRETE	88 ABW/CE	DIESEL	N
594	30967	500	2W STEEL/CONCRETE	88 ABW/CE	DIESEL	N
595	30971	500	2W STEEL/CONCRETE	88 ABW/CE	DIESEL	N
596	10855	1000	2W STEEL/CONCRETE	88 ABW/CE	DIESEL	N
597	20304	10000	2W STEEL/CONCRETE	88 MSG/LG	GASOLINE	N
598	20304	10000	2W STEEL/CONCRETE	88 MSG/LG	DIESEL	N
599	20201	2000	2W STEEL	88 ABW/CE	USED OIL	N
600	10856	2000	2W STEEL/CONCRETE	88 ABW/CE	DIESEL	N
601	31240	8000	2W STEEL/CONCRETE	88 ABW/CE	DIESEL	N
602	11456	500	2W STEEL/CONCRETE	88 ABW/CE	DIESEL	N
603	30143	5000	2W STEEL/CONCRETE	88 ABW/CE	DIESEL	N
604	30894	500	2W STEEL	88 FSS/SV	DIESEL	N
605	30151	500	2W STEEL	88 MSG/LG	USED OIL	N

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606	30153	500	2W STEEL	88 FSS/SV	USED OIL	Y
607	30154	500	2W STEEL	88 ABW/CE	DIESEL	Y
608	30260	500	2W STEEL	88 ABW/CE	DIESEL	N
609	10293	500	2W			
610	10891	500	STEEL/CONCRETE	88 FSS/SV	DIESEL	N
611	10892	500	2W STEEL	88 FSS/SV	DIESEL	N
612	20072	500	2W STEEL	88 ABW/CE	USED OIL	N
613	30013	500	2W STEEL	88 MSG/LG	USED OIL	N
614	30017	500	2W STEEL	88 ABW/CE	USED OIL	N
615	31244	500	2W STEEL	88 FSS/SV	USED OIL	N
616	34024	500	2W STEEL	88 ABW/CE	DIESEL	N
617	34053	500	2W STEEL	88 ABW/CE	DIESEL	N
618	30060	500	2W STEEL	88 MSG/LG	USED OIL	N
619	10879	500	2W STEEL	88 ABW/CE	USED OIL	Y
620	20770	2000	STEEL/CONCRETE	88 ABW/CE	DIESEL	N
621	31229	1000	2W			
622	30256	2000	STEEL/CONCRETE	88 ABW/CE	FUEL OIL	Y
623	30950	15	2W STEEL	88 ABW/CE	USED OIL	N
624	30971	25	STEEL	88 ABW/CE	DIESEL	N
625	11456	50	STEEL	88 ABW/CE	DIESEL	N
626	30206	100	STEEL	88 ABW/CE	DIESEL	N
627	10277	100	STEEL	88 ABW/CE	DIESEL	N
628	10856	100	STEEL	88 ABW/CE	DIESEL	Y
629	30143	250	STEEL	88 ABW/CE	DIESEL	N
630	10281	50	STEEL	88 ABW/CE	DIESEL	Y
631	31250	50	STEEL	88 ABW/CE	DIESEL	N
632	11400	100	STEEL	88 ABW/CE	DIESEL	Y
633	20770	75	STEEL	88 ABW/CE	DIESEL	Y
634	30967	25	STEEL	88 ABW/CE	DIESEL	N
635	20770	275	STEEL	88 ABW/CE	FUEL OIL	Y
636	30119	275	STEEL	AAFES	NEW MOTOR OIL	N
637	30119	135	STEEL	AAFES	NEW MOTOR OIL	N
638	20464	275	STEEL	AAFES	NEW MOTOR OIL	N
639	30170	3000	PLASTIC	88 ABW/CE	50% SULFURIC ACID	N
640	10840	1000	PLASTIC	88 ABW/CE	66% SULFURIC ACID	Y
641	10866	350	STEEL	88 FSS/SV	EMPTY	Y
642	10866	200	STEEL	88 FSS/SV	EMPTY	Y
643	10866	100	STEEL	88 FSS/SV	EMPTY	Y

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644	20085A	2000	2W STEEL	88 ABW/CE	DIESEL	N
645	20557	100	STEEL	88 ABW/CE	DIESEL	N
646	30031	650	2W STEEL	88 ABW/CE	DIESEL	N
647	30148	1200	STEEL	88 ABW/CE	AQUEOUS FILM FORMING FOAM	N
648	20348	50	STEEL	88 ABW/CE	DIESEL	Y
649	20588	200	STEEL	88 ABW/CE	DIESEL	Y
650	30017	30	STEEL	88 ABW/CE	DIESEL	Y
651	20656	50	STEEL	88 ABW/CE	DIESEL	Y
652	34012	25	STEEL	88 ABW/CE	DIESEL	Y
653	10291	15	STEEL	88 ABW/CE	DIESEL	N
654	34029	25	STEEL	88 ABW/CE	DIESEL	Y
NEWER TANK INFORMATION						
102	30029	5000	STEEL	88 ABW/CE	EPG	N
109	20020A	2500	STEEL	AFRL/RZ	R&D	N
110	20020A	5000	STEEL	AFRL/RZ	R&D	N
112	20020A	400	STEEL	AFRL/RZ	R&D	N
148	30029	6100	HDPE	88 ABW/CE	DEICING FLUID	N
149	30029	6100	HDPE	88 ABW/CE	DEICING FLUID	N
175	20020A	100	STEEL	AFRL/RZ	R&D	N
176	34024	100	STEEL	88 ABW/CE	FUEL	N
177	20837	1600	STEEL	AFRL/RH	EPG	N
178	20837	2750	STEEL	AFRL/RH	EPG	N
179	20018B	200	STEEL	AFRL/RZ	HYDRAULIC OIL	N
180	20018C	45	STEEL	AFRL/RZ	HYDRAULIC OIL	N
181	20018E	50	STEEL	AFRL/RZ	HYDRAULIC OIL	N
191	20094	1000	STEEL	780 TS	SCRAP FUEL	Y
192	35841	500	STEEL	88 OSS/OS	HEATING	N
204	20020A	115	STEEL	AFRL/RZ	R&D	N
226	10878	275	STEEL	88 FSS/SV	STEAM CLEANING	Y
227	20450	500	STEEL	AFRL/RX	R&D	N
228	20038	65	STEEL	88 MSG/LG	LUBE OIL	N
229	10879	5500	STEEL	88 ABW/CE	DEICING FLUID	N
283	30172	2000	STEEL	88 ABW/CE	EPG	N
284	10879	100	STEEL	88 ABW/CE	DEICING FLUID	N
286	31251	500	FRB	POWER PLANT	WATER	N
287	31240	50	HDPE	POWER PLANT	WATER	N
288	20824	900	STEEL	711 HPW	MODE MACHINE	N
300	31240	120	STEEL	POWER PLANT	WATER	N
301	20071B	10500	STEEL	AFRL/RZ	R&D	N

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302	20020A	25	STEEL	AFRL/RZ	R&D	N
303	20020A	200	STEEL	AFRL/RZ	R&D	N
304	20020A	200	STEEL	AFRL/RZ	R&D	N
306	20020A	250	STEEL	AFRL/RZ	R&D	N
318	20645	700	STEEL	88 ABW/CE	EPG	N
319	20022B	1000	STEEL	AFRL/RX	R&D	N
320	20022B	1000	STEEL	AFRL/RX	R&D	N
321	20837	20	HDPE	711 HPW	HYDRAULIC OIL	N
323	11457	650	2W STEEL	AT&T	DIESEL	N
324	11457	33	STEEL	AT&T	EMPTY	N
325	20045	150	STEEL	AFRL/RB	R&D	N
326	20494	275	STEEL	88 ABW/CE	EPG	N
327	30060	10000	STEEL	88 MSG/LG	FUEL	N
328	20558	300	STEEL	88 ABW/CE	EPG	N
329	20031	300	STEEL	780 TS	R&D	N
330	20659	1000	STEEL	88 ABW/CE	EPG	N
331	34008	140	STEEL	88 ABW/CE	EPG	N
332	34020	220	HDPE	445 MXS/MG	SCRAP TANK	N
332	10856	600	2W STEEL	88 ABW/CE	DIESEL	N
333	30103	2000	STEEL/CONCRETE	88 ABW/CE	EPG	N
334	34032	400	STEEL	88 ABW/CE	EPG	N
335	10849	65	HDPE	88 ABW/CE	MURIATIC ACID	N
337	10888	65	HDPE	88 ABW/CE	MURIATIC ACID	N
338	30019	750	HDPE	88 ABW/CE	ACID	N
403	20619	1000	STEEL	AFRL/RX	FUEL	Y
454	31253	250	STEEL	AAFES	USED OIL	N
571	20304	10000	STEEL	88 MSG/LG	FUEL	N
655	30896	250	STEEL	GOLF COURSE	FUEL	Y
656	30896	300	STEEL	GOLF COURSE	FUEL	Y
657	20094	500	STEEL	780 TS/OL-AC	MOVED FROM 30887/CATM IN MAY 2005; MOVED FROM 10293 TO 20094 IN DEC 2007.	N
658	30887	500	STEEL/CONCRETE	88 ABW/CE	HEATING (FACILITY DEMOLISHED IN MAY 2005, TANK WAS DISPOSED)	Y
659	10858	2000	2W STEEL	88 ABW/CE	DIESEL	N
660	20080	1000	STEEL	88 ABW/CE	EMERGENCY GENERATOR	N
661	34012	550	STEEL/CONCRETE	88 ABW/CE	EMERGENCY GENERATOR	N
662	30851	560	STEEL/CONCRETE	88 ABW/CE	EMERGENCY GENERATOR	N
663	20645	30	STEEL	88 ABW/CE	EMERGENCY GENERATOR	Y
664	20558	500	STEEL	88 ABW/CE	EMERGENCY GENERATOR	N
665	20770	200	STEEL	88 ABW/CE	EMERGENCY GENERATOR	N

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666	30259	200	STEEL	88 ABW/CE	EMERGENCY GENERATOR	N
667	20083	550	STEEL	CALL HENRY CONTRACTOR	FUEL	N
668	10293	4000	STEEL	88 FSS/SV	USED OIL	N
669	10280	35	STEEL	88 ABW/CE	DIESEL	N
670	10851	5	STEEL	88 ABW/CE	DIESEL	N
671	10858	200	STEEL	88 ABW/CE	DIESEL	N
672	20004	250	STEEL	AFRL/NMUSAF	USED OIL / PORTABLE	N
673	20004	500	STEEL	AFRL/NMUSAF	USED OIL	N
674	20004	220	STEEL	AFRL/NMUSAF	USED OIL	N
675	20016	200	STEEL	88 ABW/CE	EMERGENCY GENERATOR	N
676	20481	10	STEEL	88 ABW/CE	EMERGENCY GENERATOR	N
677	20620	300	STEEL	AFRL/RV	EMERGENCY GENERATOR	N
678	20626	150	STEEL	88 ABW/CE	EMERGENCY GENERATOR	N
679	20741	1000	STEEL	DRMO	PROPANE	N
681	20453	40	STEEL	88 ABW/CE	EMERGENCY GENERATOR	N
682	20684	160	PLASTIC	88 ABW/CE	BRINE	Y
684	10271	1000	PLASTIC	88 ABW/CE	SULFURIC ACID	N
685	10828	500	STEEL	88 ABW/CE	PREVIOUSLY SULFURIC ACID; MOVED TO 31241	Y
686	10880	500	2W STEEL	GOLF COURSE	USED FUEL	N
687	34019	100	STEEL	88 ABW/CE	EMERGENCY GENERATOR	N
688	20071B	750	STEEL	46 OG/OG	R & D	Y
689	20004	300	STEEL	412 TW/EW	R & D	N
690	20004	300	STEEL	412 TW/EW	R & D	N
691	30152	600	STEEL	55 MXS/OLA	FUEL	N
692	20094	6000	STEEL	780 TS/OL-AC	SCRAP FUEL	N
693	10840	1500	PLASTIC	88 ABW/CE	WATER TREATMENT	N
694	20025C	175	STEEL	AFRL/RB	EMERGENCY GENERATOR	N
695	30170	1000	STEEL	88 ABW/CE	EMERGENCY GENERATOR	N
696	20770	550	FIBERGLASS	STEAM PLANT	WATER TREATMENT	N
697	10829	25000	STEEL	88 ABW/CE	DIESEL	N
698	30146	2118	STEEL	88 ABW/CE	EMERGENCY GENERATOR	N
699	30001	150	STEEL	88 ABW/CE	EMERGENCY GENERATOR	N
700	20676	2550	STEEL	88 CG/SC	EMERGENCY GENERATOR	N
701	20838	425	STEEL	AFRL/RH	EMERGENCY GENERATOR	N
702	30209	396	STEEL	88 ABW/CE	EMERGENCY GENERATOR	N
703	30154	400	STEEL	88 MSG/LG	USED FUEL	N
704	30154	400	STEEL	88 MSG/LG	USED FUEL	N
705	30896	550	STEEL	GOLF COURSE	EQUIPMENT FUEL	N
706	30896	550	STEEL	GOLF COURSE	EQUIPMENT FUEL	N
707	10829	1000	2W STEEL	88 ABW/CE	DIESEL	N

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708	10829	1000	2W STEEL	88 ABW/CE	DIESEL	N
709	20018	500	STEEL	AFRL/RZ	RESEARCH FUEL TESTING	N
710	30154	400	STEEL	88 MSG/LG	BOWSER	N
711	30154	400	STEEL	88 MSG/LG	BOWSER	N
712	30029	1000	STEEL	88 ABW/CE	SUPPORT FOR GENERATORS	N
713	30029	1000	STEEL	88 ABW/CE	SUPPORT FOR GENERATORS	N
714	30029	1000	STEEL	88 ABW/CE	EMERGENCY GENERATOR	N
715	30029	1000	STEEL	88 ABW/CE	EMERGENCY GENERATOR	N
716	30029	500	STEEL	88 ABW/CE	EMERGENCY GENERATOR	N
717	30029	500	STEEL	88 ABW/CE	EMERGENCY GENERATOR	N
718	34021	80	STEEL	445 MXS/MG	EMERGENCY GENERATOR	N
719	34026	80	STEEL	445 MXS/MG	EMERGENCY GENERATOR	N
720	34026	40	STEEL	445 MXS/MG	PARTS CLEANING	N
721	34024	19	STEEL	445 MXS/MG	PARTS WASHER	N
722	34015	160	STEEL	445 MXS/MG	EMERGENCY GENERATOR	N
723	20094	1000	STEEL	445 MXS/MG	PARTS WASHER	N
725	20029	396	STEEL	780 TS/OL-AC	R & D	N
726	31249	396	STEEL	88 ABW/CE	EMERGENCY GENERATOR	N
727	34026	80	STEEL	88 ABW/CE	EMERGENCY GENERATOR	N
728	20838	200	STEEL	445 MXS/MG	PD-680 SOLVENT	N
729	10849	195	HDPE	711 HPW	EMERGENCY GENERATOR	N
731	30091	220	STEEL	88 ABW/CE	WATER TREATMENT	N
732	30091	220	STEEL	88 MSG/LG	USED FUEL	N
733	34032	200	STEEL	88 MSG/LG	USED FUEL	N
734	34032	200	STEEL	445 MXS/MG	USED FUEL	N
735	34032	200	STEEL	445 MXS/MG	USED FUEL	N
736	34032	400	STEEL	445 MXS/MG	USED FUEL	N
737	34032	200	STEEL	445 MXS/MG	USED FUEL	N
738	20652	451	STEEL	AFRL/RX	EMERGENCY GENERATOR	N
739	20018	35000	STEEL	AFRL/RZ	PROCESS WATER	N
740	20018	35000	STEEL	AFRL/RZ	PROCESS WATER	N
741	20651	250	STEEL	AFSAC	EMERGENCY GENERATOR	Y
742	20031	40	STEEL	46 TG/OL-AC	PARTS WASHER	N
743	30029	500	STEEL	88 ABW/CE	EMERGENCY GENERATOR	Y
744	10880	1000	STEEL	GOLF COURSE	NOT IN SERVICE	N
NN-667	20083	550	STEEL	CALL HENRY CONTRACTOR	FUEL	Y

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Record #	Base	Site #	Site Location	Base ID	Site Owner	Permit #	Type	Category	Description
89	WPAFB	42	30119	270	AAFES	292537	UST	N/A	N/A
82	WPAFB	35	34052	243	88 ABW/CE	292219	UST	N/A	N/A
190	WPAFB	184	20094	196	AFRL/RB		AST	N/A	N/A
188	WPAFB	182	30170	37	88 ABW/CE		AST	N/A	N/A
187	WPAFB	181	30149	34	88 ABW/CE		AST	N/A	N/A
186	WPAFB	180	30142	33	88 ABW/CE		AST	N/A	N/A
92	WPAFB	45	20451	310	AFRL/RV	292351	UST	N/A	N/A
197	WPAFB	191	30154	249	88 MSG/LG		AST	N/A	N/A
90	WPAFB	43	30119	271	AAFES	292537	UST	N/A	N/A
198	WPAFB	192	30154	250	88 MSG/LG		AST	N/A	N/A
88	WPAFB	41	30256	260	LIQUID FUELS	292361	UST	N/A	N/A
87	WPAFB	40	20490	259	AFRL/RZ	293922	UST	N/A	N/A
86	WPAFB	39	20201	254	LIQUID FUELS	292323	UST	N/A	N/A
85	WPAFB	38	20464	251	88 FSS/SV	293949	UST	N/A	N/A
84	WPAFB	37	20464	250	88 FSS/SV	293949	UST	N/A	N/A
48	WPAFB	1	20652	51	AFRL/RX	293933	UST	N/A	N/A
91	WPAFB	44	30119	272	AAFES	292537	UST	N/A	N/A
205	WPAFB	199	30154	257	88 MSG/LG		AST	N/A	N/A
213	WPAFB	207	30154	310	88 MSG/LG		AST	N/A	N/A
212	WPAFB	206	20071B	292	AFRL/RZ		AST	N/A	N/A
211	WPAFB	205	20079B	277	NHRC		AST	N/A	N/A
210	WPAFB	204	30154	272	88 MSG/LG		AST	N/A	N/A
209	WPAFB	203	30154	271	88 MSG/LG		AST	N/A	N/A
208	WPAFB	202	20060	270	AFRL/RB		AST	N/A	N/A
194	WPAFB	188	20094	230	AFRL/RB		AST	N/A	N/A
206	WPAFB	200	30154	258	88 MSG/LG		AST	N/A	N/A
81	WPAFB	34	10298	238	88 ABW/CE	293929	UST	N/A	N/A
204	WPAFB	198	30154	256	88 MSG/LG		AST	N/A	N/A
203	WPAFB	197	30154	255	88 MSG/LG		AST	N/A	N/A
202	WPAFB	196	30154	254	88 MSG/LG		AST	N/A	N/A
201	WPAFB	195	30154	253	88 MSG/LG		AST	N/A	N/A
200	WPAFB	194	30154	252	88 MSG/LG		AST	N/A	N/A
199	WPAFB	193	30154	251	88 MSG/LG		AST	N/A	N/A
207	WPAFB	201	20060	269	AFRL/RB		AST	N/A	N/A
55	WPAFB	8	20018C	148	AFRL/RZ	290527	UST	N/A	N/A
83	WPAFB	36	20464	249	88 FSS/SV	293949	UST	N/A	N/A
62	WPAFB	15	20018D	158	AFRL/RZ	290528	UST	N/A	N/A
61	WPAFB	14	20018D	157	AFRL/RZ	290528	UST	N/A	N/A
60	WPAFB	13	20018D	156	AFRL/RZ	290528	UST	N/A	N/A
59	WPAFB	12	20071B	155	AFRL/RZ	293942	UST	N/A	N/A

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58	WPAFB	11	20092	152	AFRL/RZ	290525	UST	N/A	N/A
64	WPAFB	17	20021	175	AFRL/RZ	290529	UST	N/A	N/A
56	WPAFB	9	30153	150	88 FSS/SV	293909	UST	N/A	N/A
65	WPAFB	18	20021	176	AFRL/RZ	290529	UST	N/A	N/A
54	WPAFB	7	30962	124	88 ABW/CE		UST	N/A	N/A
53	WPAFB	6	30950	114	88 ABW/CE	293902	UST	N/A	N/A
52	WPAFB	5	30018	102	88 ABW/CE	292218	UST	N/A	N/A
51	WPAFB	4	10830	97	MEDICAL CENTER	293928	UST	N/A	N/A
50	WPAFB	3	10830	96	MEDICAL CENTER	293928	UST	N/A	N/A
49	WPAFB	2	10830	95	MEDICAL CENTER	293928	UST	N/A	N/A
57	WPAFB	10	20092	151	AFRL/RZ	290525	UST	N/A	N/A
72	WPAFB	25	20021	183	AFRL/RZ	290529	UST	N/A	N/A
80	WPAFB	33	10298	237	88 ABW/CE	293929	UST	N/A	N/A
79	WPAFB	32	30206	235	88 ABW/CE	292237	UST	N/A	N/A
78	WPAFB	31	20557	222	88 ABW/CE	292561	UST	N/A	N/A
77	WPAFB	30	30151	188	88 MSG/LG		UST	N/A	N/A
76	WPAFB	29	30149	187	88 ABW/CE		UST	N/A	N/A
75	WPAFB	28	20021	186	AFRL/RZ	290529	UST	N/A	N/A
63	WPAFB	16	20018D	159	AFRL/RZ	290528	UST	N/A	N/A
73	WPAFB	26	20021	184	AFRL/RZ	290529	UST	N/A	N/A
216	WPAFB	210	20098	575	AFRL/RB		AST	N/A	N/A
71	WPAFB	24	20021	182	AFRL/RZ	290529	UST	N/A	N/A
70	WPAFB	23	20021	181	AFRL/RZ	290529	UST	N/A	N/A
69	WPAFB	22	20021	180	AFRL/RZ	290529	UST	N/A	N/A
68	WPAFB	21	20021	179	AFRL/RZ	290529	UST	N/A	N/A
67	WPAFB	20	20021	178	AFRL/RZ	290529	UST	N/A	N/A
66	WPAFB	19	20021	177	AFRL/RZ	290529	UST	N/A	N/A
74	WPAFB	27	20021	185	AFRL/RZ	290529	UST	N/A	N/A
128	WPAFB	81	34041	382	88 ABW/CE	293886	UST	N/A	N/A
214	WPAFB	208	20020A	477	AFRL/RZ		AST	N/A	N/A
135	WPAFB	88	20654	418	AFRL/RX	293934	UST	N/A	N/A
134	WPAFB	87	34010	388	88 ABW/CE	293899	UST	N/A	N/A
133	WPAFB	86	20011A	387	88 ABW/CE	293940	UST	N/A	N/A
132	WPAFB	85	20074	386	88 ABW/CE	293939	UST	N/A	N/A
131	WPAFB	84	20015	385	88 ABW/CE	293937	UST	N/A	N/A
137	WPAFB	90	10291	441	88 ABW/CE	293954	UST	N/A	N/A
129	WPAFB	82	30168	383	88 ABW/CE	293907	UST	N/A	N/A
142	WPAFB	136	10855	596	88 ABW/CE		AST	N/A	N/A
127	WPAFB	80	10271	381	88 ABW/CE	293952	UST	N/A	N/A
126	WPAFB	79	10271	380	88 ABW/CE	293952	UST	N/A	N/A
125	WPAFB	78	30093	378	88 MSG/LG	293892	UST	N/A	N/A

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124	WPAFB	77	30093	377	88 MSG/LG	293892	UST	N/A	N/A
123	WPAFB	76	30093	376	88 MSG/LG	293892	UST	N/A	N/A
122	WPAFB	75	30117	375	88 ABW/CE	293917	UST	N/A	N/A
130	WPAFB	83	20070	384	88 MSG/LG	293955	UST	N/A	N/A
149	WPAFB	143	20770	620	88 ABW/CE		AST	N/A	N/A
181	WPAFB	175	20094	199	AFRL/RB		AST	N/A	N/A
180	WPAFB	174	20094	198	AFRL/RB		AST	N/A	N/A
178	WPAFB	172	20094	195	AFRL/RB		AST	N/A	N/A
177	WPAFB	171	20094	194	AFRL/RB		AST	N/A	N/A
176	WPAFB	170	20094	124	AFRL/RB		AST	N/A	N/A
152	WPAFB	146	20085A	644	88 ABW/CE		AST	N/A	N/A
136	WPAFB	89	20655	421	AFRL/RX	293923	UST	N/A	N/A
150	WPAFB	144	31229	621	88 ABW/CE		AST	N/A	N/A
119	WPAFB	72	34021	372	445 MXS/LG	293888	UST	N/A	N/A
148	WPAFB	142	30143	603	88 ABW/CE		AST	N/A	N/A
147	WPAFB	141	31240	601	88 ABW/CE		AST	N/A	N/A
146	WPAFB	140	10856	600	88 ABW/CE		AST	N/A	N/A
145	WPAFB	139	20201	599	LIQUID FUELS		AST	N/A	N/A
144	WPAFB	138	20304	598	88 MSG/LG		AST	N/A	N/A
143	WPAFB	137	20304	597	88 MSG/LG		AST	N/A	N/A
151	WPAFB	145	30256	622	LIQUID FUELS		AST	N/A	N/A
93	WPAFB	46	30060	325	88 MSG/LG	293963	UST	N/A	N/A
101	WPAFB	54	20490	341	AFRL/RZ	293922	UST	N/A	N/A
100	WPAFB	53	20490	340	AFRL/RZ	293922	UST	N/A	N/A
99	WPAFB	52	20490	339	AFRL/RZ	293922	UST	N/A	N/A
98	WPAFB	51	20490	338	AFRL/RZ	293922	UST	N/A	N/A
97	WPAFB	50	20490	337	AFRL/RZ	293922	UST	N/A	N/A
96	WPAFB	49	30110	332	88 ABW/CE	292562	UST	N/A	N/A
121	WPAFB	74	34021	374	445 MXS/LG	293888	UST	N/A	N/A
94	WPAFB	47	30060	326	88 MSG/LG	293963	UST	N/A	N/A
104	WPAFB	57	20490	344	AFRL/RZ	293922	UST	N/A	N/A
221	WPAFB	215	10878	592	88 FSS/SV		AST	N/A	N/A
220	WPAFB	214	10878	591	88 FSS/SV		AST	N/A	N/A
219	WPAFB	213	355	586	88 ABW/CE		AST	N/A	N/A
218	WPAFB	212	20838	584	88 ABW/CE		AST	N/A	N/A
217	WPAFB	211	30884	581	88 ABW/CE		AST	N/A	N/A
183	WPAFB	177	20018	237	AFRL/RZ		AST	N/A	N/A
95	WPAFB	48	20620	328	88 ABW/CE	293932	UST	N/A	N/A
111	WPAFB	64	20490	351	AFRL/RZ	293922	UST	N/A	N/A
215	WPAFB	209	10866	573	88 FSS/SV		AST	N/A	N/A
118	WPAFB	71	34021	371	445 MXS/LG	293888	UST	N/A	N/A

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117	WPAFB	70	20252	369	AFRL/RZ	29989	UST	N/A	N/A
116	WPAFB	69	10266	364	88 ABW/CE	29351	UST	N/A	N/A
115	WPAFB	68	20481	363	88 ABW/CE	29336	UST	N/A	N/A
114	WPAFB	67	10277	356	88 ABW/CE	29353	UST	N/A	N/A
102	WPAFB	55	20490	342	AFRL/RZ	29322	UST	N/A	N/A
112	WPAFB	65	20490	352	AFRL/RZ	29322	UST	N/A	N/A
103	WPAFB	56	20490	343	AFRL/RZ	29322	UST	N/A	N/A
110	WPAFB	63	20490	350	AFRL/RZ	29322	UST	N/A	N/A
109	WPAFB	62	20490	349	AFRL/RZ	29322	UST	N/A	N/A
108	WPAFB	61	20490	348	AFRL/RZ	29322	UST	N/A	N/A
107	WPAFB	60	20490	347	AFRL/RZ	29322	UST	N/A	N/A
106	WPAFB	59	20490	346	AFRL/RZ	29322	UST	N/A	N/A
105	WPAFB	58	20490	345	AFRL/RZ	29322	UST	N/A	N/A
120	WPAFB	73	34021	373	445 MXS/LG	29388	UST	N/A	N/A
113	WPAFB	66	20490	353	AFRL/RZ	29322	UST	N/A	N/A

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Site #	WTMS-ES Site ID	Current Alias	Operable Unit	Description	ROD	RIP	RC	SC	RISK
1	LF1	LF1	OU 6	Landfill 1	9/30/1998	9/30/1998	9/30/2028	9/30/2028	NR
2	LF2	LF2	OU 6	Landfill 2	9/30/1998	9/30/1998	9/30/2028	9/30/2028	NR
3	LF3	LF3	OU 4	Landfill 3	9/30/1998	9/30/1998	9/30/2028	9/30/2028	NR
4	LF4	LF4	OU 4	Landfill 4	9/30/1998	9/30/1998	9/30/2028	9/30/2028	NR
5	LF5	LF5	OU 5	Landfill 5	9/30/1998	9/30/1998	9/30/2028	9/30/2028	NR
6	LF6	LF6	OU 4	Landfill 6	9/30/1998	9/30/1998	9/30/2028	9/30/2028	NR
7	LF7	LF7	OU 4	Landfill 7	9/30/1998	9/30/1998	9/30/2028	9/30/2028	NR
8	LF8	LF8	OU 1	Landfill 8	6/30/1994	6/30/1997	9/30/2028	9/30/2028	NR
9	LF9	LF9	OU 7	Landfill 9	9/30/1998	9/30/1998	9/30/2028	9/30/2028	NR
10	LF10	LF10	OU 1	Landfill 10	6/30/1994	6/30/1997	9/30/2028	9/30/2028	NR
11	LF11	LF11	OU 3	Landfill 11	9/30/1998	9/30/1998	9/30/2028	9/30/2028	NR
12	LF12	LF12	OU 3	Landfill 12	9/30/1998	9/30/1998	9/30/2028	9/30/2028	NR
13	LF13	LF13	OU 10	Landfill 13	9/30/1996	9/30/1996	9/30/1998	9/30/1998	NR
14	LF14	EFDZ1	OU 6	Earthfill Disposal Zone 1	9/30/1996	9/8/1992	9/30/1996	9/30/1996	NR
15	LF15	EFDZ2	OU 9	Earthfill Disposal Zone 2	9/30/1998	8/18/1992	8/18/1992	9/30/1998	NR
16	LF16	EFDZ3	OU 9	Earthfill Disposal Zone 3	9/30/1998	8/18/1992	8/18/1992	9/30/1998	NR
17	LF17	EFDZ4	OU 9	Earthfill Disposal Zone 4	9/30/1998	9/30/1998	9/30/1998	9/30/1998	NR
18	LF18	EFDZ5	OU 9	Earthfill Disposal Zone 5	9/30/1998	8/18/1992	8/18/1992	9/30/1998	NR
19	LF19	EFDZ6	OU 9	Earthfill Disposal Zone 6	9/30/1998	8/18/1992	8/18/1992	9/30/1998	NR
20	LF20	EFDZ7	OU 9	Earthfill Disposal Zone 7	9/30/1998	8/18/1992	8/18/1992	9/30/1998	NR
21	LF21	EFDZ8	OU 9	Earthfill Disposal Zone 8	9/30/1998	8/18/1992	8/18/1992	9/30/1998	NR
22	LF22	EFDZ9	OU 9	Earthfill Disposal Zone 9	9/30/1998	9/30/1998	9/30/1998	9/30/1998	NR
23	LF23	EFDZ10	OU 9	Earthfill Disposal Zone 10	9/30/1998	3/30/1993	3/30/1993	9/30/1998	NR
24	LF24	EFDZ11	OU 3	Earthfill Disposal Zone 11	9/30/1996	9/29/1992	9/30/1996	9/30/1996	NR
25	LF25	EFDZ12	OU 3	Earthfill Disposal Zone 12	9/30/1996	9/29/1992	9/30/1996	9/30/1996	NR
26	SS26	SP1	OU 3	Spill Site 1	9/30/98	9/30/98	9/30/98	9/30/98	NR
27	SS27	SP2	OU 2	Spill Site 2	9/30/98	9/30/98	9/30/98	9/30/98	NR
28	SS28	SP3	OU 2	Spill Site 3	9/30/98	9/30/98	9/30/98	9/30/98	NR
29	SS29	SP4	OU 10	Spill Site 4	9/30/98	9/30/98	9/30/98	9/30/98	NR
30	SS30	SP5	OU 8	Spill Site 5	9/30/98	9/30/98	9/30/98	9/30/98	NR
31	SS31	SP6	OU 8	Spill Site 6	9/30/98	9/30/98	9/30/98	9/30/98	NR
32	SS32	SP7	OU 8	Spill Site 7	9/30/98	9/30/98	9/30/98	9/30/98	NR
33	SS33	SP8	OU 10	Spill Site 8	9/30/98	9/30/98	9/30/98	9/30/98	NR
34	SS34	SP9	OU 8	Spill Site 9	9/30/98	9/30/98	9/30/98	9/30/98	NR
35	FT35	FTA1	OU 5	Fire Training Area 1	9/30/98	9/30/98	9/30/98	9/30/98	NR
36	FT36	FTA2	OU 3	Fire Training Area 2	9/30/98	9/30/98	9/30/98	9/30/98	NR
37	FT37	FTA3	OU 3	Fire Training Area 3	9/30/98	9/30/98	9/30/98	9/30/98	NR
38	FT38	FTA4	OU 3	Fire Training Area 4	9/30/98	9/30/98	9/30/98	9/30/98	NR

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39	FT39	FTA5	OU 3	Fire Training Area 5	9/30/98	9/30/98	9/30/98	9/30/98	NR
40	OT40	HP1	OU 8	Central Heating Plant 1, Bldg 66	9/30/98	9/30/98	9/30/98	9/30/98	NR
41	OT41	HP2	OU 4	Central Heating Plant 2, Bldg 271	9/30/98	9/30/98	9/30/98	9/30/98	NR
42	OT42	HP3	OU 10	Central Heating Plant 3, Bldg 170	9/30/98	9/30/98	9/30/98	9/30/98	NR
43	OT43	HP4	OU 10	Central Heating Plant 4, Bldg 1240	9/30/98	9/30/98	9/30/98	9/30/98	NR
44	OT44	HP5	OU 9	Central Heating Plant 5, Bldg 770	9/30/98	9/30/98	9/30/98	9/30/98	NR
45	DP45	BS1	OU 2	Burial Site 1	9/30/98	9/30/98	9/30/98	9/30/98	NR
46	DP46	BS2	OU 11	Burial Site 2	9/30/98	9/30/98	9/30/98	9/30/98	NR
47	DP47	BS3	OU 9	Burial Site 3	9/30/98	9/30/98	9/30/98	9/30/98	NR
48	DP48	BS4	OU 5	Burial Site 4	9/30/98	9/30/98	9/30/98	9/30/98	NR
49	ST49	UST 4020	OU 11	UST, Bldg 4020	9/30/98	9/30/98	9/30/98	9/30/98	NR
50	ST50	UST 71A	OU 8	USTs, Bldg 71A	9/30/98	9/30/98	9/30/98	9/30/98	NR
51	ST51	TFRM49A	OU 10	Tank Farm 49A	9/30/98	9/30/98	9/30/98	9/30/98	NR
52	ST52	ERTR	OU 10	East Ramp Tank Removal	9/30/98	9/30/98	9/30/98	9/30/98	NR
53	ST53	GLT	OU 5	Gravel Lake Tanks	9/30/98	9/30/98	9/30/98	9/30/98	NR
54	OT54	LTCSA	OU 2	Long Term Coal Storage Area	9/30/98	9/30/98	9/30/98	9/30/98	NR
55	OT55	TCSA	OU 2	Temporary Coal Storage Pile	9/30/98	9/30/98	9/30/98	9/30/98	NR
56	OT56	CSB 89	OU 2	Coal Storage Bldg 89	9/30/98	9/30/98	9/30/98	9/30/98	NR
57	OT57	C&CSA	OU 2	Coal and Chemical Storage Area	9/30/98	9/30/98	9/30/98	9/30/98	NR
58	SD58	CDA	OU 11	Chemical Disposal Area	9/30/98	9/30/98	9/30/98	9/30/98	NR
60	RW60	RADB	OU 9	Radioactive Waste Burial Site	9/30/98	9/30/98	9/30/98	9/30/98	NR
61	RW61	NUC	OU 9	Deactivated Nuclear Reactor	9/30/98	9/30/98	9/30/98	9/30/98	NR
62	LF62	LF 14	OU 3	Landfill 14	9/30/98	9/30/98	9/30/98	9/30/98	NR
63	SS63	SP 10	OU 2	Spill Site 10	9/30/98	9/30/98	9/30/98	9/30/98	NR
64	ST64	UST 119	OU 10	UST 119	9/30/98	9/30/98	9/30/98	9/30/98	NR
65	SS65	SP 11	OU 8	Spill Site 11	9/30/98	9/30/98	9/30/98	9/30/98	NR
66	DP066	BS 5	OU 9	Burial Site 5	9/30/98	9/30/98	9/30/98	9/30/98	NR
67	DP067	BS 6	OU 9	Burial Site 6	9/30/98	9/30/98	9/30/98	9/30/98	NR
68	DP068	Bldg 59	OU 8	Building 20059	9/30/98	9/30/98	9/30/98	9/30/98	NR
69	OT069	GW A/C A	BMP	Groundwater Area A/C	8/31/1999	8/31/1999	8/31/1999	8/31/1999	L
70	OT070	GW B	BMP	Groundwater Area B	8/31/1998	8/31/1998	8/31/1998	8/31/1998	L
	SS071	Bldg 59	Outlier	Building 59	-	-	12/30/2010	-	
	CD073	Bldg 25	Outlier	Building 25	-	-	6/21/2007	-	
	DP071	Bldg 79/95	Outlier	Buildings 79/95	-	-	9/1/2006	-	

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DIV. OF HAZARDOUS
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00353

SECTION K

OTHER FEDERAL LAWS

In accordance with 40 CFR 270.3, the following laws have been reviewed for applicability with respect to the hazardous waste container storage facility at WPAFB:

- The Wild and Scenic Rivers Act, 16 USC 1273 et seq.
- The National Historic Preservation Act of 1966, 16 USC 470 et seq.
- The Endangered Species Act, 16 USC 1531 et seq.
- The Coastal Zone Management Act, 16 USC 1451 et seq.
- The Fish and Wildlife Coordination Act, 16 USC 661 et seq.

K-1 The National Historic Preservation Act

The following three locations on WPAFB are listed on the National Register of Historic Places. In no case will these places or uses of these places be impacted by construction or operation of the proposed hazardous waste container storage area.

1. Wright Brothers Memorial Mound Group
Registration No. PH0060305, February 12, 1974

The Wright Brothers Memorial Mound Group is located in Area B of the base and is open to the public (see Map 2). It consists of six mounds, which have been dated from 500 B.C. to 300 A.D. and which were established by either the Adena or the Hopewell Indians. The mounds are relatively small and gently sloping. They are maintained by the base as improved ground areas.

2. Wright-Patterson Air Force Base Mound
Registration No. PH0060330, February 23, 1972

The Wright-Patterson Air Force Base Mound is located in Area B of the base (see Map 2), but unlike the mound group, it is not open to the public. The mound is kept clear of brush, although large trees have been allowed to remain on it. It is dated 500 B.C. to 400 A.D. and was also established by either the Adena or Hopewell Indians.

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Revision 1
December 2010

3. Huffman Field/Prairie Flying Field
Registration No. PH0060267, May 6, 1971

Huffman Prairie Flying Field is located in ~~Area-C~~ AREA A of the base (see Map 2). This field has a concrete pylon marking the start of the oval flight path that the Wright brothers used. On this field Wilbur and Orville Wright tested and perfected the airplane following the first flight at Kitty Hawk, North Carolina. The field, used from 1904 until 1916, was the world's first airport and was a training site for early pilots including the first military pilots.

Each of these three locations is situated far enough from the hazardous waste container storage areas to be isolated from potential impact. Surface water runoff would not affect the historic sites because it is not carried through or near the sites. Similarly, traffic carrying wastes to and from the facility would not create impacts because the established traffic routes do not pass the sites.

K-2 The Endangered Species Act

There are no federally endangered or threatened endangered species within one-quarter mile of Buildings 478/479. Both the Ohio Department of Natural Resources and the Department of Interior, Fish and Wildlife Service were contacted (Attachment K-1). Neither indicated the known presence of federally listed species in the vicinity of the site. The base has been surveyed for federally listed species, including those referred to in Attachment K-1, the clubshell mussel and the Indiana bat. The endangered Indiana bat was found on base a little over 2 miles from the site. The clubshell mussel was not found on base. The site itself does not have suitable habitat for either species.

K-3 Wild and Scenic River Act: Section 1510.16 (Wild and Scenic Rivers - Under DNR)

There are no wild or scenic rivers within one mile of Buildings 478/479. This information was verified by the Ohio Department of Natural Resources - Division of Natural Areas and Preserves (Attachment K-1).

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K-4 The Fish Wildlife Coordination Act

There are no waters of any stream or other body of water that will be proposed or authorized to be impounded, diverted, controlled, or modified in the area of Buildings 478/479.

K-5 The Coastal Zone Management Act

WPAFB is not located within a designated coastal zone.

Revision 0
September 2010

APPENDIX K-1

**OHIO DEPARTMENT OF NATURAL RESOURCES
U.S. DEPARTMENT OF THE INTERIOR**

JUN 27 2011

**DIV. OF HAZARDOUS
WASTE MGT.**

00357



DIVISION OF NATURAL AREAS & PRESERVES

1889 Fountain Square, Columbus, OH 43224
(614) 265-6453; (614) 267-3096 FAX

George V. Voinovich • Governor
Donald C. Anderson • Director

December 16, 1998

Colleen Kitch
Environmental Quality Management, Inc.
1310 Kemper Meadow Drive
Suite 100
Cincinnati, OH 45240

Dear Ms. Kitch:

After reviewing our Natural Heritage maps and files, I find the Division of Natural Areas and Preserves has no records of rare or endangered species in the Department of Air Force Wright Patterson Air Force Base project area, including a 1/4 mile radius, on the Fairborn Quad (PN: 3145).

There are no existing or proposed state nature preserves or scenic rivers at the project site. We are also unaware of any unique ecological sites, geologic features, breeding or non-breeding animal concentrations, champion trees, or state parks, forests or wildlife areas in the project vicinity.

Although we also have no data for Federal endangered or threatened species in your project area, you may wish to contact the U.S. Fish and Wildlife Service at 6950-H Americana Parkway, Reynoldsburg, OH, 43068; phone 614-469-6923; fax 614-469-6919. They coordinate the Federal Endangered Species Act.

Our inventory program has not completely surveyed Ohio and relies on information supplied by many individuals and organizations. Therefore, a lack of records for any particular area is not a statement that rare species or unique features are absent from that area. Please note that although we inventory all types of plant communities, we only maintain records on the highest quality areas. Also, we do not have data for all Ohio wetlands. For additional information on wetlands and National Wetlands Inventory maps, please contact Jim Given in the Division of Real Estate and Land Management at 614-265-6770.

Please contact me at 614-265-6818 if I can be of further assistance.

Sincerely,

Debbie Woischke

Debbie Woischke, Data Specialist
Division of Natural Areas & Preserves

JUN 27 2011

DIV. OF HAZARDOUS
WASTE MGT.

00358



United States Department of the Interior

FISH AND WILDLIFE SERVICE

Ecological Services
6950 Americana Parkway, Suite H
Reynoldsburg, Ohio 43068-4132

January 5, 1999

Colleen A. Kitch
Environmental Quality Management
1310 Kemper Meadow Drive, Suite 100
Cincinnati, Ohio 45240

Dear Ms. Kitch:

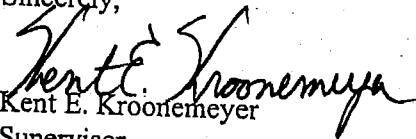
This responds to your request for information about fish and wildlife that occur in the vicinity of Wright Patterson Air Force Base, Greene County, Ohio. We understand that this information is necessary for renewal of an existing RCRA Part B Permit. We can only provide you with information about Federally listed endangered species located within the county. Two divisions of the Ohio Department of Natural Resources, the Division of Wildlife (614-265-6300) and the Division of Natural Areas and Preserves (614-265-6472), maintain lists of plants and animals of concern to the State of Ohio. The Division of Natural Areas and Preserves has access to the "Natural Heritage Database" which lists information, including location, about all plant and animal species in Ohio.

ENDANGERED SPECIES COMMENTS: To facilitate compliance with Section 7(c) of the Endangered Species Act of 1973, as amended, Federal agencies are required to obtain from the Fish and Wildlife Service information concerning any species, listed or proposed to be listed, which may be present in the area of a proposed action. Therefore, we are providing you the following list of endangered (E), threatened (T), or proposed (PT or PE) species which may be present in Greene County:

Indiana bat (E)
Clubshell mussel (E)

If you have questions or we may be of further assistance in this matter please contact Mr. Bill Kurey of this office at 614-469-6923 ext. 14.

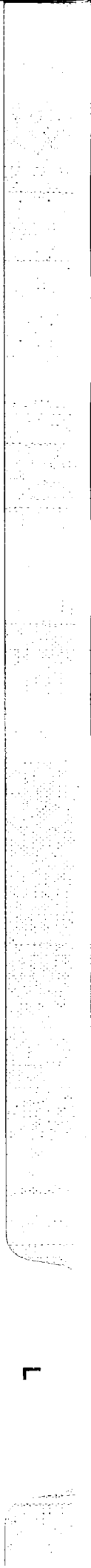
Sincerely,


Kent E. Kroonemeyer
Supervisor

JUN 27 2011

DIV. OF HAZARDOUS
WASTE MGT.

00359



SECTION L
CERTIFICATION
[40 CFR 270.11]

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Operator and Owner

Date: 30 Sept 2010

Signature: _____

Amanda Gladney
Amanda W. Gladney
Colonel, USAF
Commander

JUN 27 2011



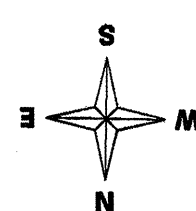
WRIGHT-PATTERSON AIR FORCE BASE, OHIO
88 ABW/CEA
ASSET MANAGEMENT
MAP 2. BASE MAP AREA B
SEPTEMBER 2010
FOR OFFICIAL USE ONLY

JUN 27 2011
DIV OF HAZARDOUS
WASTE MGT
00363



WRIGHT-PATTERSON AIR FORCE BASE, OHIO
ASSET MANAGEMENT
88 ABW/CEA

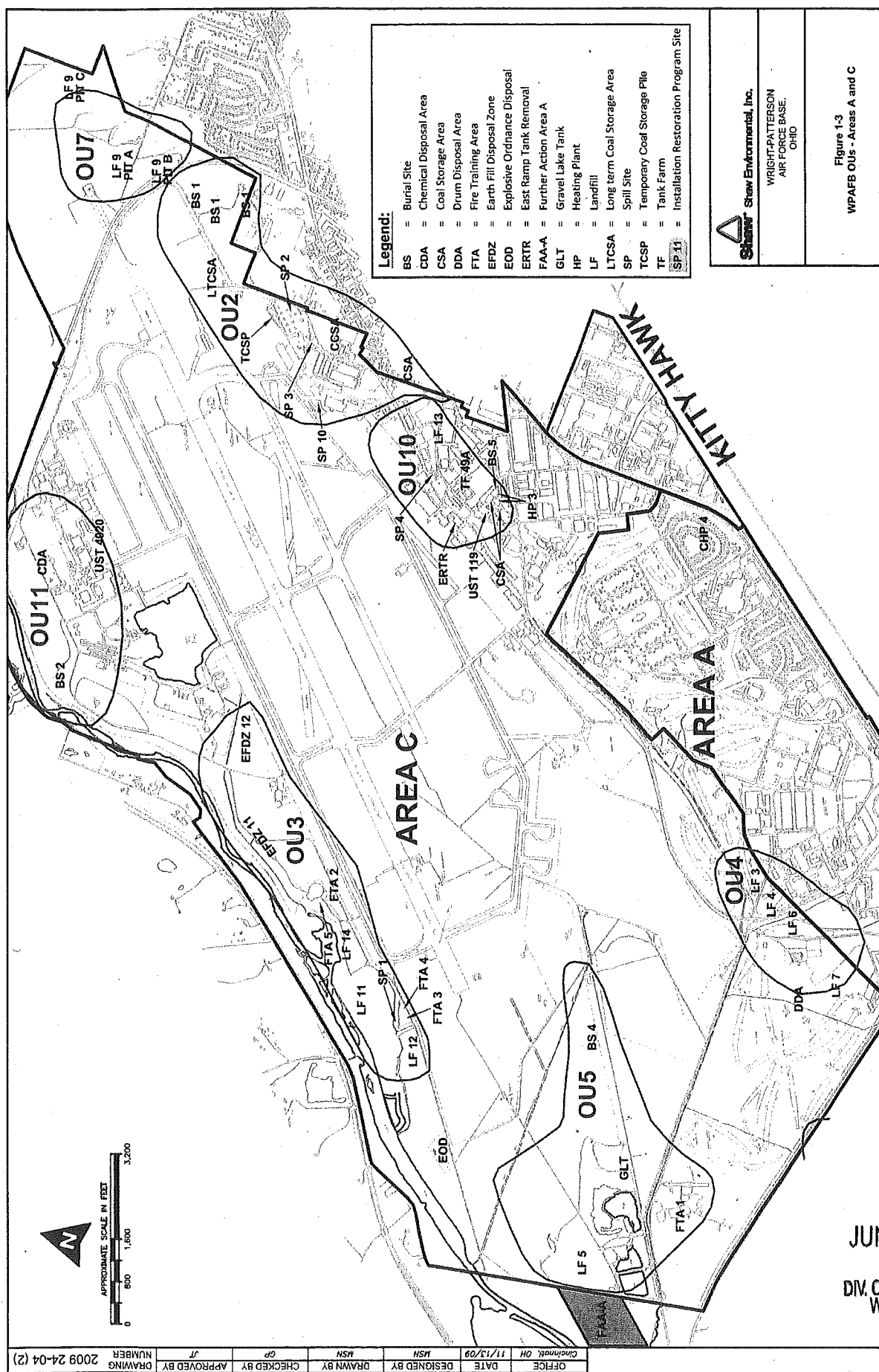
0 600 1200
Feet



MAP 2. BASE MAP AREA C
SEPTEMBER 2010

FOR OFFICIAL USE ONLY

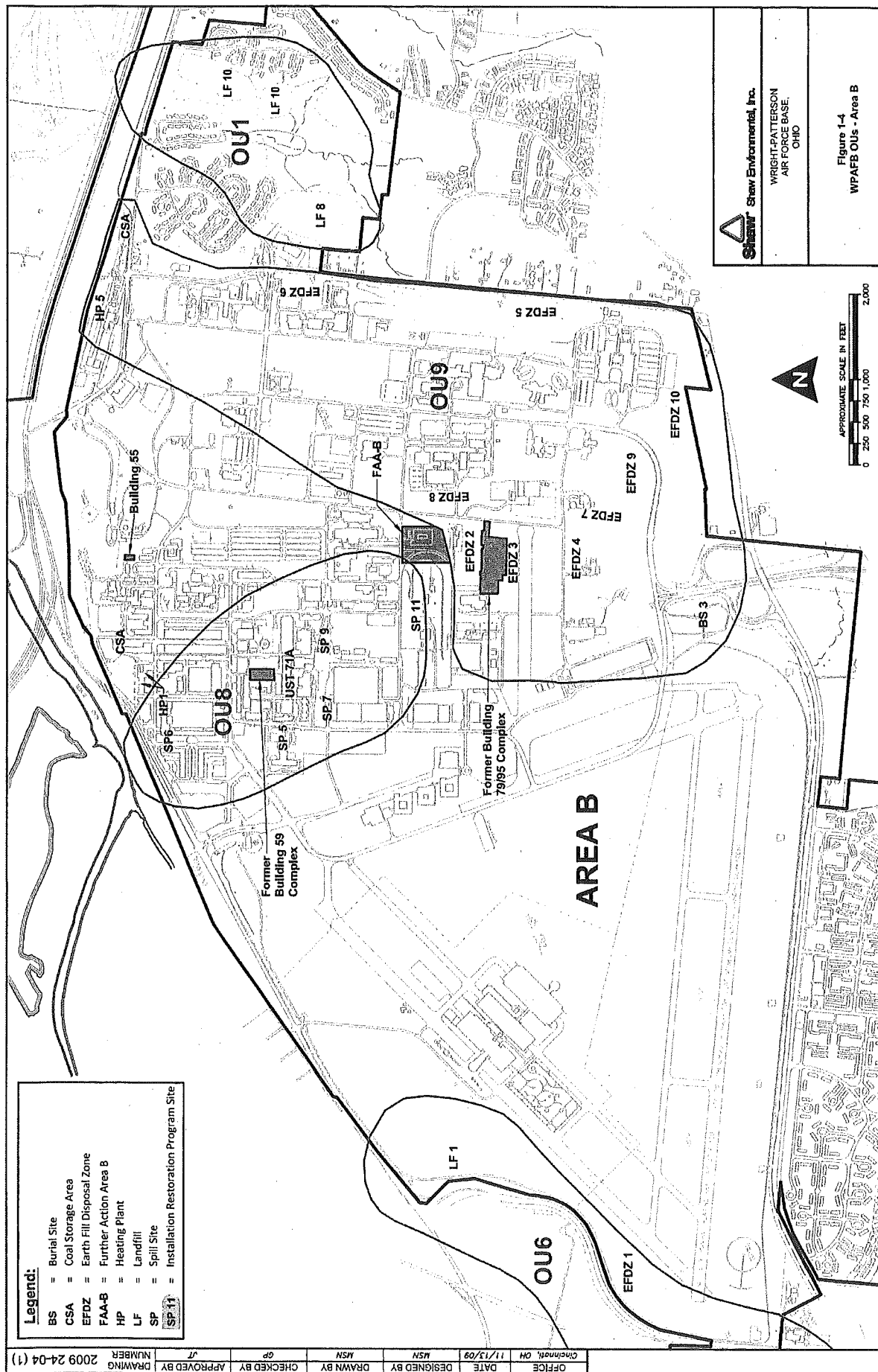
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JUN 27 2011

DIV. OF HAZARDOUS
WASTE MGT.

00365



OFFICE	DATE	DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY	DRAWING NUMBER	2009 24-04 (1)
CHEN/MSH	11/13/09	MSH	MSH	MSH	MSH	SP	1

JUN 27 2011
DIV. OF HAZARDOUS
WASTE MGT.

00369



Legend

- WATER JUNCTION POINT
- WATER LINE

CONTOUR INTERVAL: 5 FEET

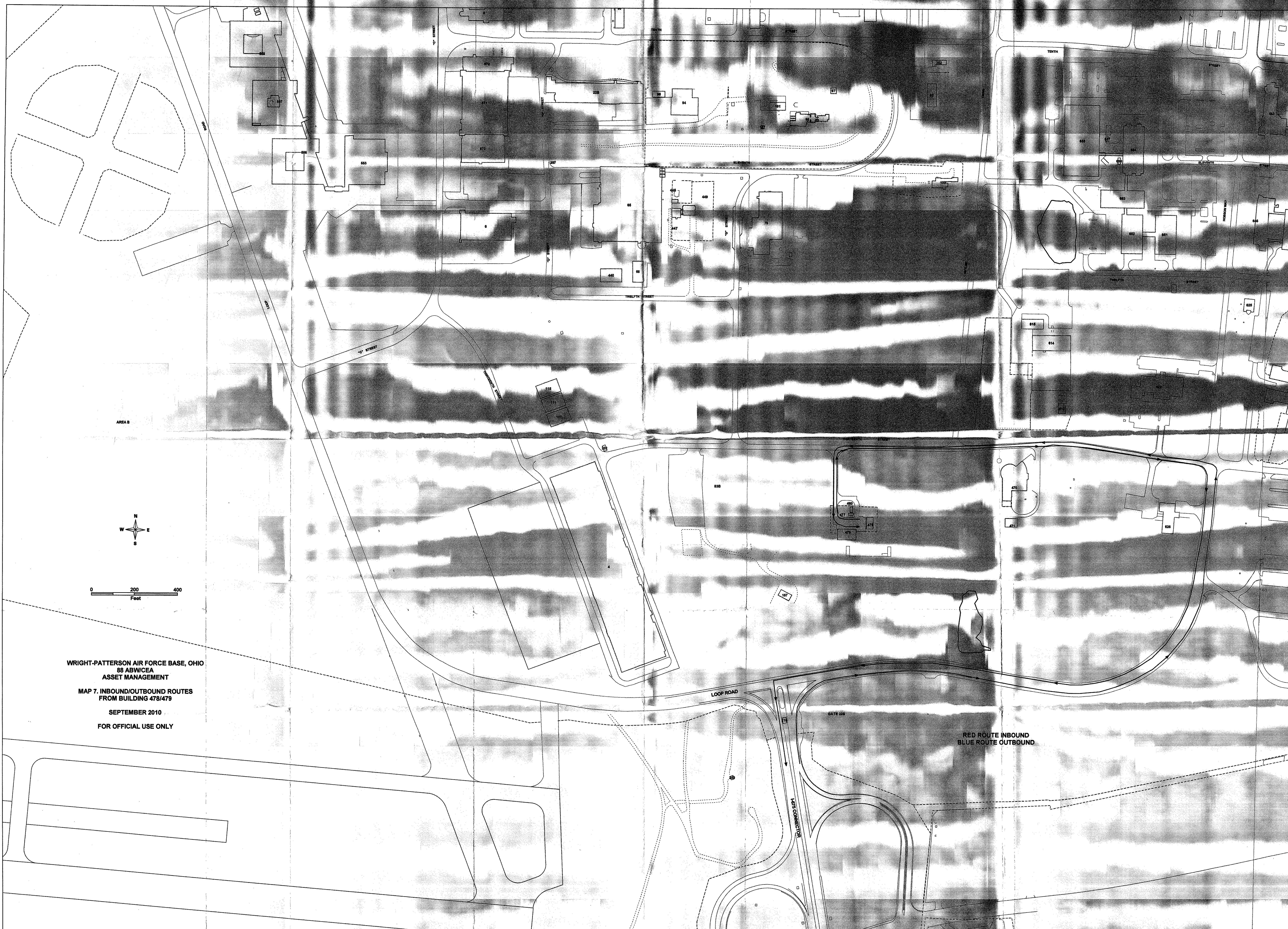
RED CIRCLE REPRESENTS
1/4 MILE RADIUS FROM
BUILDINGS 478 AND 479

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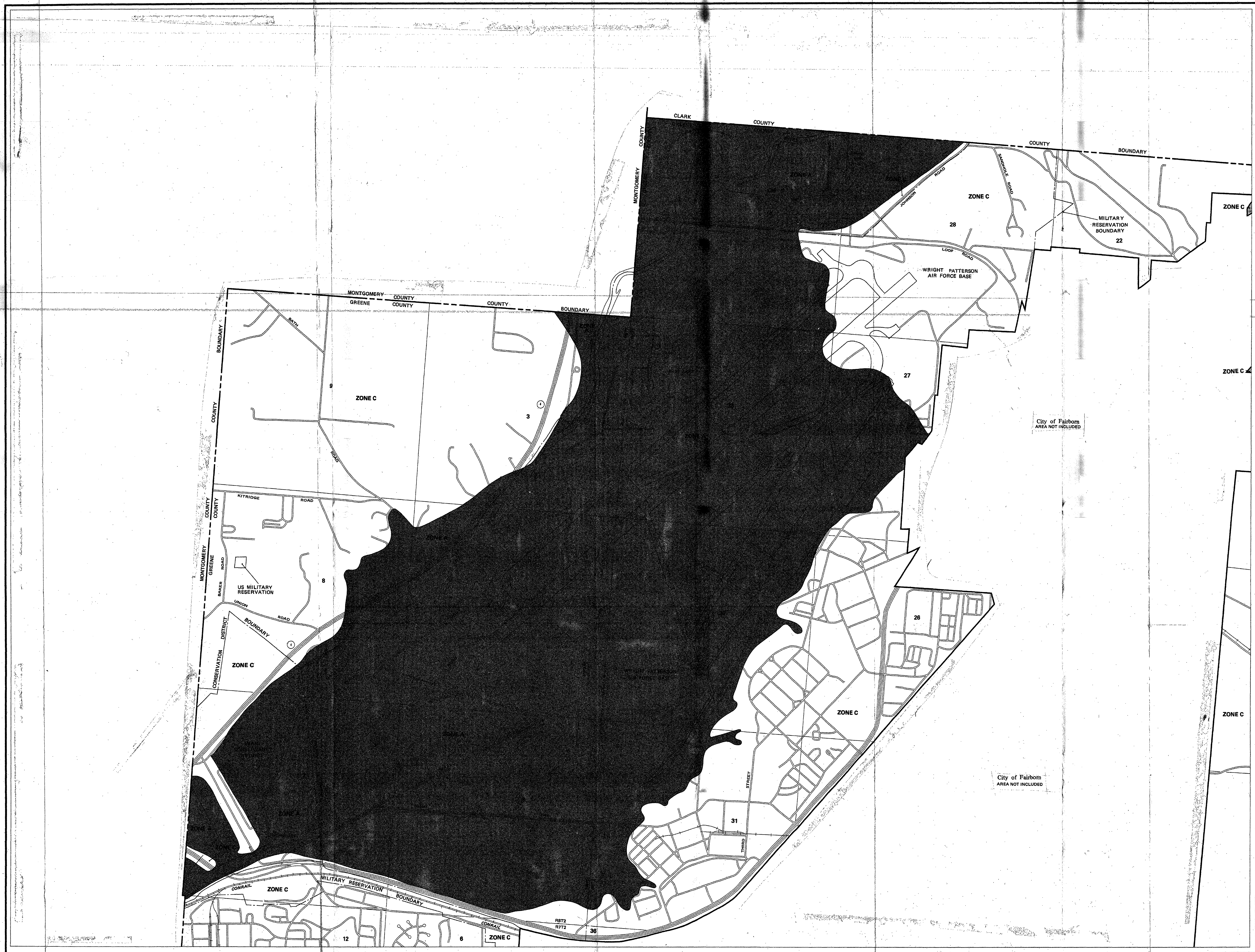
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WRIGHT-PATTERSON AIR FORCE BASE, OHIO
88 ABW/CEA
ASSET MANAGEMENT
MAP 8. WATER UTILITIES
SEPTEMBER 2010
FOR OFFICIAL USE ONLY

JUN 27 2011
DN OF HAZARDOUS
WASTE MCL
00372







KEY TO MAP

100-Year Flood Boundary
Zone Delineations* With
Date of Identification
As of 12/2/74
100-Year Flood Boundary
500-Year Flood Boundary
Base Flood Elevation Line
With Elevation in Feet**
Base Flood Elevation in Feet
Where Uniform Within Zone**
Elevation Reference Mark
River Mile
**Referenced to the National Geodetic Vertical Datum of 1929

***EXPLANATION OF ZONE DESIGNATIONS**

ZONE	EXPLANATION
A	Areas of 100-year flood; base flood elevations and flood hazard factors not determined.
A0	Areas of 100-year shallow flooding where depths are between one (1) and three (3) feet; average depths of inundation are shown, but no flood hazard factors are determined.
AH	Areas of 100-year shallow flooding where depths are between one (1) and three (3) feet; base flood elevations are shown, but no flood hazard factors are determined.
A1-A30	Areas of 100-year flood; base flood elevations and flood hazard factors determined.
A99	Areas of 100-year flood to be protected by flood protection system under construction; base flood elevations and flood hazard factors not determined.
B	Areas between limits of the 100-year flood and 500-year flood; or certain areas subject to 100-year flooding with average depths less than one (1) foot or where the contributing drainage area is less than one square mile; or areas protected by levees from the base flood. (Medium shading)
C	Areas of minimal flooding. (No shading)
D	Areas of undetermined, but possible, flood hazards.
V	Areas of 100-year coastal flood with velocity (wave action); base flood elevations and flood hazard factors not determined.
V1-V30	Areas of 100-year coastal flood with velocity (wave action); base flood elevations and flood hazard factors determined.

NOTES TO USER

Certain areas not in the special flood hazard areas (zones A and V) may be protected by flood control structures.

This map is for flood insurance purposes only; it does not necessarily show all areas subject to flooding in the community or all planimetric features outside special flood hazard areas.

For adjoining map panels, see separately printed Index To Map Panels.

INITIAL IDENTIFICATION:
JULY 7, 1978

FLOOD HAZARD BOUNDARY MAP REVISIONS:

FLOOD INSURANCE RATE MAP EFFECTIVE:
APRIL 1, 1981

FLOOD INSURANCE RATE MAP REVISIONS:

Refer to the FLOOD INSURANCE RATE MAP EFFECTIVE date shown on this map to determine when actuarial rates apply to structures in the zones where elevations or depths have been established.

To determine if flood insurance is available in this community, contact your insurance agent, or call the National Flood Insurance Program at (800) 638-6626, or (800) 424-8872.

APPROXIMATE SCALE
1" = 1000 FEET

NATIONAL FLOOD INSURANCE PROGRAM

FIRM
FLOOD INSURANCE RATE MAP

COUNTY OF GREENE, OHIO
(UNINCORPORATED AREAS)

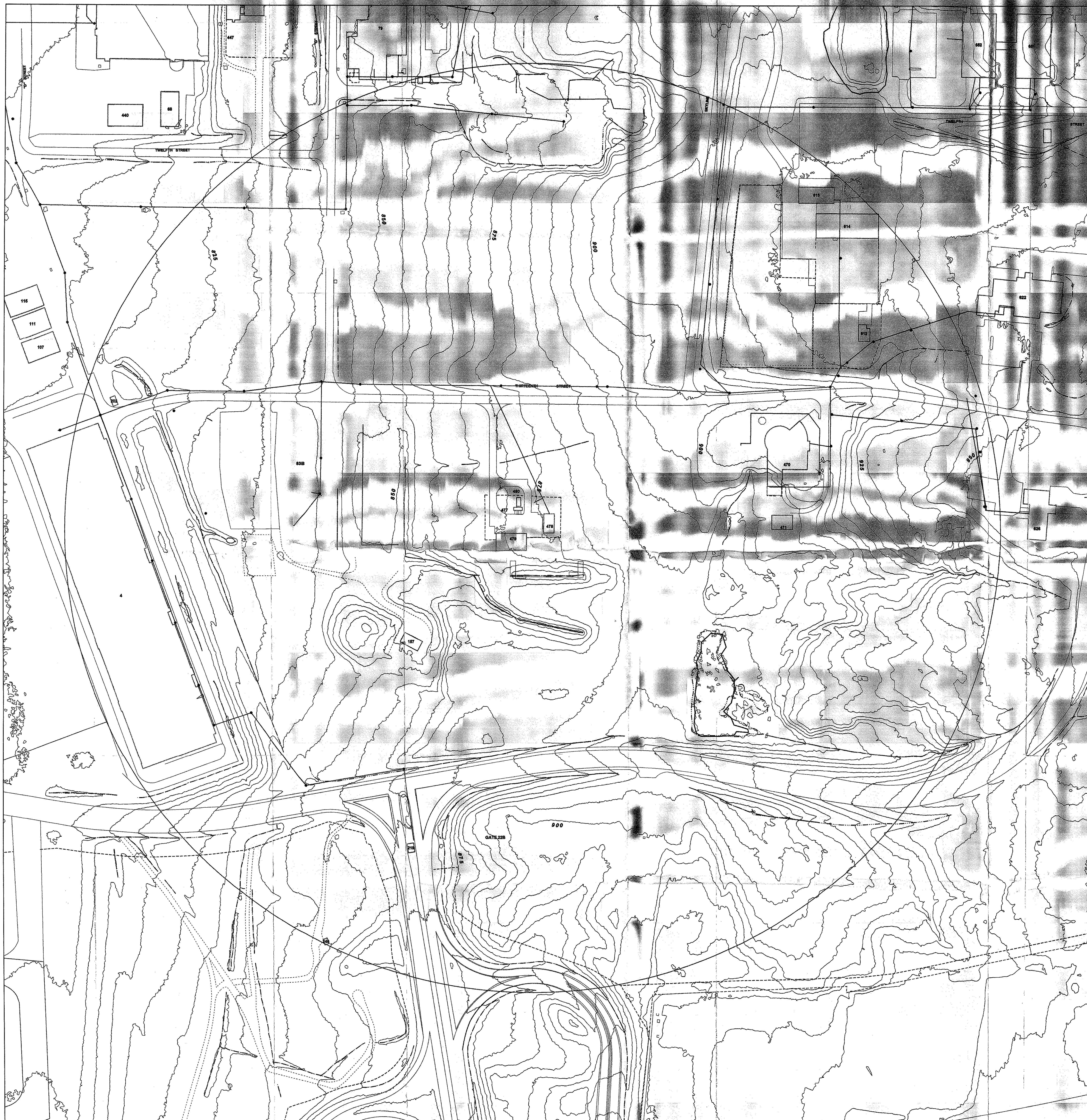
PANEL 5 OF 105
(SEE MAP INDEX FOR PANELS NOT PRINTED)

JUN 27 2011
DATE OF HAZARDOUS MATERIAL
MAP 6-A FLOODPLAIN MAP

COMMUNITY-PANEL NUMBER
390193 0005 B

EFFECTIVE DATE:
APRIL 1, 1981

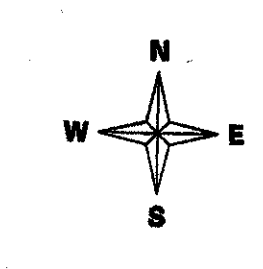
00369
federal emergency management agency
federal insurance administration



Legend
■ SANITARY INLET POINT
● SANITARY JUNCTION POINT
— SANITARY LINE

CONTOUR INTERVAL: 5 FEET

RED CIRCLE REPRESENTS
1/4 MILE RADIUS FROM
BUILDINGS 478 AND 479



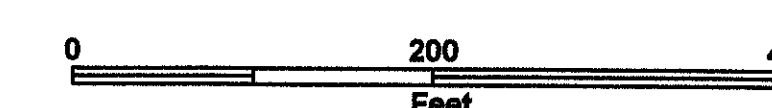
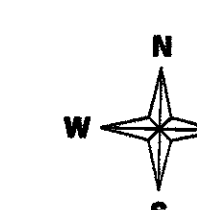
WRIGHT-PATTERSON AIR FORCE BASE, OHIO
88 ABWCEA
ASSET MANAGEMENT
MAP 5. SANITARY SEWER SYSTEM JUN 27 2011
SEPTEMBER 2010
FOR OFFICIAL USE ONLY 00368



- Legend
- STORM CULVERT AREA
 - STORM SEWER CULVERT LINE
 - STORM SEWER INLET POINT
 - STORM SEWER JUNCTION POINT
 - STORM SEWER LINE
 - STORM SEWER OPEN DRAINAGE LINE

CONTOUR INTERVAL: 5 FEET

RED CIRCLE REPRESENTS
1/4 MILE RADIUS FROM
BUILDINGS 478 AND 479



WRIGHT-PATTERSON AIR FORCE BASE, OHIO
88 ABWCEA
ASSET MANAGEMENT

MAP 4. STORM SEWER SYSTEM JUN 27 2011

SEPTEMBER 2010

FOR OFFICIAL USE ONLY 00367