S-112-16-007F

RCRA HAZARDOUS WASTE RENEWAL PERMIT APPLICATION
PARTS A AND B
FOR
NAVAL WEAPONS STATION EARLE
COLTS NECK, NEW JERSEY
NJ0170022172

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LIST OF ACRONYMS AND ABBREVIATIONS

AFFF	aqueous film-forming foam
BSEE	Bureau of Safety and Environmental Enforcement
°C	degrees Celsius
CAMU	Corrective Action Management Unit
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act of 1980
CFR	Code of Federal Regulations
CLP	Contract Laboratory Program
CO	Commanding Officer
COLIWASA	composite liquid waste sampler
CY	cubic yard
DOD	United States Department of Defense
DON	Department of the Navy
DOT	United States Department of Transportation
EEBD	emergency evacuation breathing device
e.g.	for example
EOD	Explosive Ordnance Disposal
EPA	United States Environmental Protection Agency
etc.	et cetera
FEAD	Facility Engineering and Acquisition Division
FEMA	Federal Emergency Management Agency
FIRM	flood insurance rate map
FRP	Facility Response Plan
FSC	Facility Support Contracts
g	gram
GC/MS	gas chromatography/mass spectrophotometer
HAZMIN	Hazardous Material Minimization
HCL	hydrochloric acid
HID	high-intensity discharge
HM	hazardous material
HMCMC	Hazardous Material Control and Management Committee
HNO_3	nitric acid
HW	hazardous waste
HWPM	Hazardous Waste Program Manager
HWSF	Hazardous Waste Storage Facility
ID	identification

LIST OF ACRONYMS AND ABBREVIATIONS (continued)

IEPM	Installation's Environmental Program Manager
L	liter
mL	milliliter
MSC	Military Sealift Command
MWR	Morale, Welfare and Recreation
NA	not applicable
NaOH	sodium hydroxide
NFPA	National Fire Protection Association
Ni-Cd	nickel-cadmium
NJDEP	New Jersey Department of Environmental Protection
NWS	Naval Weapons Station
No.	number
OBA	oxygen breathing apparatus
OB/OD	open burning/open detonation
OHMSETT	Oil and Hazardous Materials Simulated Environmental Test Tank
oz	ounce
PCB	polychlorinated biphenyl
PFTE	polytetrafluoroethylene
PII	personally identifiable information
ppm	part per million
PVC	polyvinyl chloride
PWD	Public Works Department
PWO	Public Works Officer
SAA	satellite accumulation area
SDS	Safety Data Sheet
SJP	standard job procedure
SOP	Standard Operating Procedure
SPCC	spill prevention, control and countermeasures
RCRA	Resource Conservation and Recovery Act
QA	quality assurance
QC	quality control
SAA	satellite accumulation area
SJP	standard job procedure
SOP	Standard Operating Procedure
SVOC	semi-volatile organic compound

LIST OF ACRONYMS AND ABBREVIATIONS (continued)

TCLP	Toxicity Characteristic Leaching Procedure
VOC	volatile organic compound
WIP	Waste Information Profile
WIR	Weekly Inspection Report

PART A

OMB# 2050-0024; Expires 01/31/2017

SEND COMPLETED FORM TO: The Appropriate State or Regional Office.	United States Environmental Protection Agency **RCRA SUBTITLE C SITE IDENTIFICATION FORM**

1. Reason for Submittal MARK ALL BOX(ES) THAT APPLY	**Reason for Submittal:** ☐ To provide an Initial Notification (first time submitting site identification information / to obtain an EPA ID number for this location) ☐ To provide a Subsequent Notification (to update site identification information for this location) ☐ As a component of a First RCRA Hazardous Waste Part A Permit Application ☒ As a component of a Revised RCRA Hazardous Waste Part A Permit Application (Amendment #_____) ☐ As a component of the Hazardous Waste Report (If marked, see sub-bullet below) ☐ Site was a TSD facility and/or generator of >1,000 kg of hazardous waste, >1 kg of acute hazardous waste, or >100 kg of acute hazardous waste spill cleanup in one or more months of the report year (or State equivalent LQG regulations)
2. Site EPA ID Number	**EPA ID Number** N J 0 1 7 0 0 2 2 1 7 2
3. Site Name	**Name:** NAVAL WEAPONS STATION EARLE
4. Site Location Information	**Street Address:** 201 STATE HWY 34 **City, Town, or Village:** COLTS NECK — **County:** NJ025 **State:** NEW JERSEY — **Country:** UNITED STATES — **Zip Code:** 07722
5. Site Land Type	☐ Private ☐ County ☐ District ☑ Federal ☐ Tribal ☐ Municipal ☐ State ☐ Other
6. NAICS Code(s) for the Site (at least 5-digit codes)	**A.** 9 2 8 1 1 0 — **C.** **B.** — **D.**
7. Site Mailing Address	**Street or P.O. Box:** 201 STATE HWY 34 **City, Town, or Village:** COLTS NECK **State:** NEW JERSEY — **Country:** UNITED STATES — **Zip Code:** 07722
8. Site Contact Person	**First Name:** ERIC — **MI:** C — **Last:** HELMS **Title:** ENVIRONMENTAL DIVISION DIRECTOR **Street or P.O. Box:** 201 STATE HWY 34, BUILDING C-23 **City, Town or Village:** COLTS NECK **State:** NEW JERSEY — **Country:** UNITED STATES — **Zip Code:** 07722 **Email:** eric.helms@navy.mil **Phone:** 732-866-2540 — **Ext.:** — **Fax:** 732-866-1290
9. Legal Owner and Operator of the Site	**A. Name of Site's Legal Owner:** US NAVY / NAVAL WEAPONS STATION EARLE — **Date Became Owner:** 12/01/1944 **Owner Type:** ☐ Private ☐ County ☐ District ☑ Federal ☐ Tribal ☐ Municipal ☐ State ☐ Other **Street or P.O. Box:** 201 STATE HWY 34 **City, Town, or Village:** COLTS NECK — **Phone:** **State:** NEW JERSEY — **Country:** UNITED STATES — **Zip Code:** 07722 **B. Name of Site's Operator:** US NAVY — **Date Became Operator:** 12/01/1944 **Operator Type:** ☐ Private ☐ County ☐ District ☑ Federal ☐ Tribal ☐ Municipal ☐ State ☐ Other

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

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

Y ☑ N ☐ **1. Generator of Hazardous Waste**
If "Yes," mark only one of the following – a, b, or c.

☑ a. LQG: Generates, in any calendar month, 1,000 kg/mo (2,200 lbs/mo.) or more of hazardous waste; **or** Generates, in any calendar month, or accumulates at any time, more than 1 kg/mo (2.2 lbs/mo) of acute hazardous waste; **or** Generates, in any calendar month, **or** accumulates at any time, more than 100 kg/mo (220 lbs/mo) of acute hazardous spill cleanup material.

☐ b. SQG: 100 to 1,000 kg/mo (220 – 2,200 lbs/mo) of non-acute hazardous waste.

☐ c. CESQG: Less than 100 kg/mo (220 lbs/mo) of non-acute hazardous waste.

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

Y ☐ N ☑ **2. Short-Term Generator** (generate from a short-term or one-time event and not from on-going processes). If "Yes," provide an explanation in the Comments section.

Y ☐ N ☑ **3. United States Importer of Hazardous Waste**

Y ☐ N ☑ **4. Mixed Waste (hazardous and radioactive) Generator**

Y ☐ N ☑ **5. Transporter of Hazardous Waste**
If "Yes," mark all that apply.

☐ a. Transporter

☐ b. Transfer Facility (at your site)

Y ☑ N ☐ **6. Treater, Storer, or Disposer of Hazardous Waste** Note: A hazardous waste Part B permit is required for these activities.

Y ☐ N ☑ **7. Recycler of Hazardous Waste**

Y ☐ N ☑ **8. Exempt Boiler and/or Industrial Furnace**
If "Yes," mark all that apply.

☐ a. Small Quantity On-site Burner Exemption

☐ b. Smelting, Melting, and Refining Furnace Exemption

Y ☐ N ☑ **9. Underground Injection Control**

Y ☐ N ☑ **10. Receives Hazardous Waste from Off-site**

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

Y ☑ N ☐ **1. Large Quantity Handler of Universal Waste (you accumulate 5,000 kg or more) [refer to your State regulations to determine what is regulated]. Indicate types of universal waste managed at your site. If "Yes," mark all that apply.**

a. Batteries ☑
b. Pesticides ☐
c. Mercury containing equipment ☑
d. Lamps ☑
e. Other (specify) _____ ☐
f. Other (specify) _____ ☐
g. Other (specify) _____ ☐

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

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

Y ☐ N ☑ **1. Used Oil Transporter**
If "Yes," mark all that apply.

☐ a. Transporter

☐ b. Transfer Facility (at your site)

Y ☐ N ☑ **2. Used Oil Processor and/or Re-refiner**
If "Yes," mark all that apply.

☐ a. Processor

☐ b. Re-refiner

Y ☐ N ☑ **3. Off-Specification Used Oil Burner**

Y ☐ N ☑ **4. Used Oil Fuel Marketer**
If "Yes," mark all that apply.

☐ a. Marketer Who Directs Shipment of Off-Specification Used Oil to Off-Specification Used Oil Burner

☐ b. Marketer Who First Claims the Used Oil Meets the Specifications

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

❖ You can ONLY Opt into Subpart K if:

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

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

☐ **a. College or University**

☐ **b. Teaching Hospital that is owned by or has a formal written affiliation agreement with a college or university**

☐ **c. Non-profit Institute that is owned by or has a formal written affiliation agreement with a college or university**

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

11. Description of Hazardous Waste

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

D001	D002	D003	D004	D005	D006	D007
D008	D009	D010	D011	D016	D018	D022
D035	D040	F003	F005	U002	U057	U108
U122	U134	U154	U161	U220		

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

12. Notification of Hazardous Secondary Material (HSM) Activity

Y ☐ N ☑ Are you notifying under 40 CFR 260.42 that you will begin managing, are managing, or will stop managing hazardous secondary material under 40 CFR 261.2(a)(2)(ii), 40 CFR 261.4(a)(23), (24), or (25)?

If "Yes," you must fill out the Addendum to the Site Identification Form: Notification for Managing Hazardous Secondary Material.

13. Comments

14. 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 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 fines and imprisonment for knowing violations. For the RCRA Hazardous Waste Part A Permit Application, all owner(s) and operator(s) must sign (see 40 CFR 270.10(b) and 270.11).

Signature of legal owner, operator, or an authorized representative	Name and Official Title (type or print)	Date Signed (mm/dd/yyyy)
	CAPT JAY M. STEINGOLD, USN COMMANDING OFFICER	06/08/2016

EPA ID Number | N | J | 0 | 1 | 7 | 0 | 0 | 2 | 2 | 1 | 7 | 2 |

OMB#: 2050-0024; Expires 01/31/2017

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

ONLY fill out this form if:

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

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

☐ Facility will begin managing excluded HSM as of _____ (mm/dd/yyyy).

☐ Facility is still managing excluded HSM/re-notifying as required by March 1 of each even-numbered year.

☐ Facility has stopped managing excluded HSM as of _____ (mm/dd/yyyy) and is notifying as required.

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

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

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

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

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EPA ID Number | N | J | 0 | 1 | 7 | 0 | 0 | 2 | 2 | 1 | 7 | 2 |

OMB#: 2050-0024; Expires 01/31/2017

United States Environmental Protection Agency

HAZARDOUS WASTE PERMIT INFORMATION FORM

1. Facility Permit Contact	**First Name:** Same as Site Contact	**MI:**	**Last Name:**
	Contact Title:		
	Phone:	**Ext.:**	**Email:**
2. Facility Permit Contact Mailing Address	**Street or P.O. Box:** Same as Site Mailing Address		
	City, Town, or Village:		
	State:		
	Country:	**Zip Code:**	
3. Operator Mailing Address and Telephone Number	**Street or P.O. Box:** 201 State Hwy 34		
	City, Town, or Village: Earle Naval Weapons Station		
	State: NJ	**Phone:** 7328662540	
	Country: US	**Zip Code:** 07722	
4. Facility Existence Date	**Facility Existence Date (mm/dd/yyyy):** 12/01/1944		

5. Other Environmental Permits

A. Facility Type (Enter code)	B. Permit Number													C. Description
RCRA	H	W	P	0	5	0	0	0	1					Current Hazardous Waste Facility Permit
RCRA	H	W	C	1	1	0	0	0	1					Delay-of-Closure and Contingent Post-Closure Plan

6. Nature of Business: NWS Earle is a primary East Coast Fleet Support Activity with a mission to provide ammunition logistics to Navy, United States Marine Corps, Coast Guard units, and shore activities in the northeastern United States.

7. Process Codes and Design Capacities – Enter information in the Section on Form Page 3

A. PROCESS CODE – Enter the code from the list of process codes below that best describes each process to be used at the facility. 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), describe the process (including its design capacity) in the space provided in Item 8.

B. PROCESS DESIGN CAPACITY – For each code entered in Item 7.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 Item 7.B(1), enter the code in Item 7.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 Unit of Measure for Process Design Capacity
	Disposal	
D79	Underground Injection Well Disposal	Gallons; Liters; Gallons Per Day; or Liters Per Day
D80	Landfill	Acre-feet; Hectares-meter; Acres; Cubic Meters; Hectares; Cubic Yards
D81	Land Treatment	Acres or Hectares
D82	Ocean Disposal	Gallons Per Day or Liters Per Day
D83	Surface Impoundment Disposal	Gallons; Liters; Cubic Meters; or Cubic Yards
D99	Other Disposal	Any Unit of Measure Listed Below
	Storage	
S01	Container	Gallons; Liters; Cubic Meters; or Cubic Yards
S02	Tank Storage	Gallons; Liters; Cubic Meters; or Cubic Yards
S03	Waste Pile	Cubic Yards or Cubic Meters
S04	Surface Impoundment	Gallons; Liters; Cubic Meters; or Cubic Yards
S05	Drip Pad	Gallons; Liters; Cubic Meters; Hectares; or Cubic Yards
S06	Containment Building Storage	Cubic Yards or Cubic Meters
S99	Other Storage	Any Unit of Measure Listed Below
	Treatment	
T01	Tank Treatment	Gallons Per Day; Liters Per Day
T02	Surface Impoundment	Gallons Per Day; Liters Per Day
T03	Incinerator	Short Tons Per Hour; Metric Tons Per Hour; Gallons Per Hour; Liters Per Hour; BTUs Per Hour; Pounds Per Hour; Short Tons Per Day; Kilograms Per Hour; Gallons Per Day; Metric Tons Per Hour; or Million BTU Per Hour
T04	Other Treatment	Gallons Per Day; Liters Per Day; Pounds Per Hour; Short Tons Per Hour; Kilograms Per Hour; Metric Tons Per Day; Short Tons Per Day; BTUs Per Hour; Gallons Per Day; Liters Per Hour; or Million BTU Per Hour
T80	Boiler	Gallons; Liters; Gallons Per Hour; Liters Per Hour; BTUs Per Hour; or Million BTU Per Hour

Process Code	Process	Appropriate Unit of Measure for Process Design Capacity
	Treatment (Continued)	**(for T81 – T94)**
T81	Cement 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; Liters Per Hour; Kilograms Per Hour; or Million BTU Per Hour
T82	Lime Kiln	
T83	Aggregate Kiln	
T84	Phosphate Kiln	
T85	Coke Oven	
T86	Blast Furnace	
T87	Smelting, Melting, or Refining Furnace	
T88	Titanium Dioxide Chloride Oxidation Reactor	
T89	Methane Reforming Furnace	
T90	Pulping Liquor Recovery Furnace	
T91	Combustion Device Used in the Recovery of Sulfur Values from Spent Sulfuric Acid	
T92	Halogen Acid Furnaces	
T93	Other Industrial Furnaces Listed in 40 CFR 260.10	
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
	Miscellaneous (Subpart X)	
X01	Open Burning/Open Detonation	Any Unit of Measure Listed Below
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
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
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
Gallons	G
Gallons Per Hour	E
Gallons Per Day	U
Liters	L
Liters Per Hour	H
Liters Per Day	V
Short Tons Per Hour	D
Short Tons Per Day	N
Metric Tons Per Hour	W
Metric Tons Per Day	S
Pounds Per Hour	J
Kilograms Per Hour	X
Million BTU Per Hour	X
Cubic Yards	Y
Cubic Meters	C
Acres	B
Acre-feet	A
Hectares	Q
Hectare-meter	F
BTU Per Hour	I

EPA ID Number | N | J | 0 | 1 | 7 | 0 | 0 | 2 | 2 | 1 | 7 | 2 |

OMB#: 2050-0024; Expires 01/31/2017

Process Codes and Design Capacities (Continued)

EXAMPLE FOR COMPLETING Item 7 (shown in line number X-1 below): A facility has a storage tank, which can hold 533.788 gallons.

Line Number		A. Process Code (From list above)			B. PROCESS DESIGN CAPACITY (1) Amount (Specify)	(2) Unit of Measure	C. Process Total Number of Units	For Official Use Only					
X	1	S	0	2	533.788	G	001						
	1	S	0	1	29,004	G	001						
	2												
	3												
	4												
	5												
	6												
	7												
	8												
	9												
1	0												
1	1												
1	2												
1	3												

te: If you need to list more than 13 process codes, attach an additional sheet(s) with the information in the same format as above. umber the line sequentially, taking into account any lines that will be used for "other" process (i.e., D99, S99, T04, and X99) in Item 8.

8. Other Processes (Follow instructions from Item 7 for D99, S99, T04, and X99 process codes)

Line Number (Enter #s in sequence with Item 7)		A. Process Code (From list above)			B. PROCESS DESIGN CAPACITY (1) Amount (Specify)	(2) Unit of Measure	C. Process Total Number of Units	For Official Use Only					
X	2	T	0	4	100.00	U	001						

9. Description of Hazardous Wastes - Enter Information in the Sections on Form Page 5

A. 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, Subp. C that describes the characteristics and/or the toxic contaminants of those hazardous wastes.

B. ESTIMATED ANNUAL QUANTITY – For each listed waste entered in Item 9.A, estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in Item 9.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 Item 9.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 Item 9.A, select the code(s) from the list of process codes contained in Items 7.A and 8.A on page 3 to indicate all the processes that will be used to store, treat, and/or dispose of all listed hazardous wastes.

For non-listed waste: For each characteristic or toxic contaminant entered in Item 9.A, select the code(s) from the list of process codes contained in Items 7.A and 8.A 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:

1. **Enter the first two as described above.**
2. **Enter "000" in the extreme right box of Item 9.D(1).**
3. **Use additional sheet, enter line number from previous sheet, and enter additional code(s) in Item 9.E.**

2. PROCESS DESCRIPTION: If code is not listed for a process that will be used, describe the process in Item 9.D(2) or in Item 9.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:

1. **Select one of the EPA Hazardous Waste Numbers and enter it in Item 9.A. On the same line complete Items 9.B, 9.C, and 9.D by estimating the total annual quantity of the waste and describing all the processes to be used to store, treat, and/or dispose of the waste.**
2. **In Item 9.A of the next line enter the other EPA Hazardous Waste Number that can be used to describe the waste. In Item 9.D.2 on that line enter "included with above" and make no other entries on that line.**
3. **Repeat step 2 for each EPA Hazardous Waste Number that can be used to describe the hazardous waste.**

EXAMPLE FOR COMPLETING Item 9 (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 Qty of Waste	C. Unit of Measure (Enter code)	D. PROCESSES (1) PROCESS CODES (Enter Code)									(2) PROCESS DESCRIPTION (If code is not entered in 9.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

Description of Hazardous Wastes ***(Continued. Use additional sheet(s) as necessary; number pages as 5a, etc.)***

Line Number		A. EPA Hazardous Waste No. (Enter code)				B. Estimated Annual Qty of Waste	C. Unit of Measure (Enter code)	D. PROCESSES (1) PROCESS CODES (Enter Code)									D. PROCESSES (2) PROCESS DESCRIPTION (If code is not entered in 9.D(1))
	1	D	0	0	1	9,000	P	S	0	1							
	2	D	0	0	2	300	P	S	0	1							
	3	D	0	0	3	1,800	P	S	0	1							
	4	D	0	0	5												Included with D001
	5	D	0	0	7												Included with D001
	6	D	0	0	8	1,500	P	S	0	1							
	7	D	0	0	9	400	P	S	0	1							
	8	D	0	1	1												Included with D001
	9	D	0	1	6	5	P	S	0	1							
1	0	D	0	1	8												Included with D001
1	1	D	0	2	2	10	P	S	0	1							
1	2	D	0	3	5												Included with D001
1	3	D	0	4	0												Included with D001
1	4	F	0	0	3												Included with D001
1	5	F	0	0	5	500	P	S	0	1							
1	6	U	0	0	2	10	P	S	0	1							
	7	U	0	5	7												Included with D001
1	8	U	1	0	8												Included with D001
1	9	U	1	2	2												Included with D001
2	0	U	1	3	4												Included with D002
2	1	U	1	5	4												Included with D001
2	2	U	1	6	1												Included with D001
2	3	U	2	2	0												Included with D001
2	4																
2	5																
2	6																
2	7																
2	8																
2	9																
3	0																
3	1																
3	2																
3	3																
3	4																
3	5																
3	6																

9. Description of Hazardous Wastes *(Continued. Use additional sheet(s) as necessary; number pages as 5a, etc.)*

Line Number		A. EPA Hazardous Waste No. (Enter code)				B. Estimated Annual Qty of Waste	C. Unit of Measure (Enter code)	D. PROCESSES (1) PROCESS CODES (Enter Code)									D. PROCESSES (2) PROCESS DESCRIPTION (If code is not entered in 9.D.1)

10. Map

Attach to this application a topographical 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 intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all spring, rivers, and other surface water bodies in this map area. See instructions for precise requirements.

11. Facility Drawing

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

12. Photographs

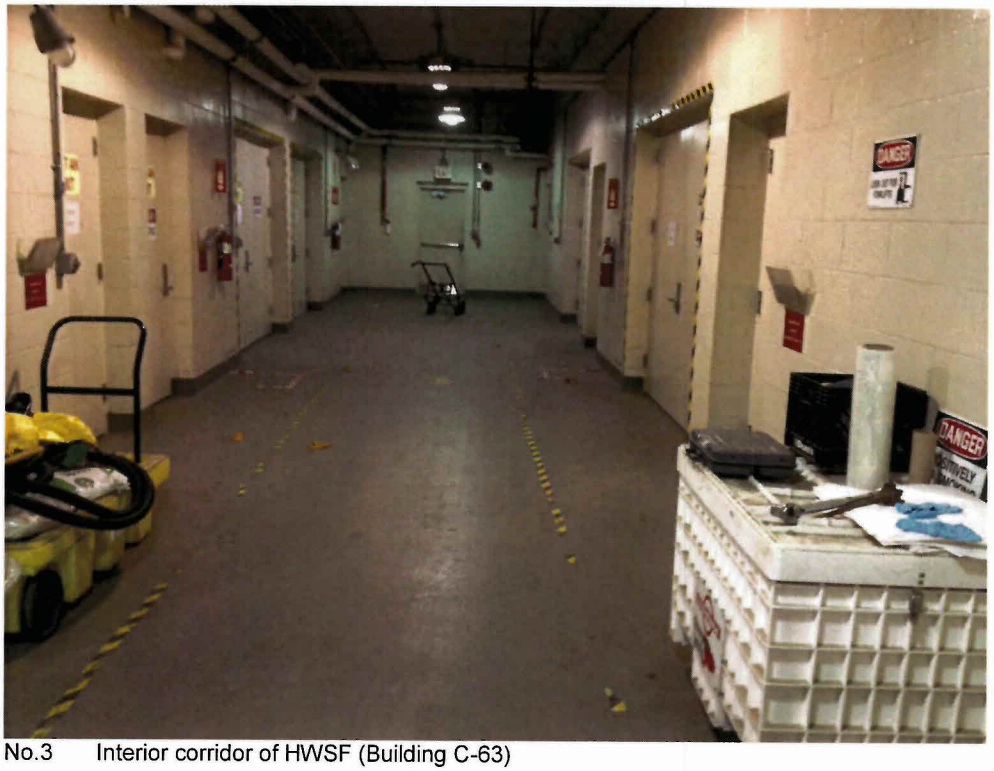
All existing facilities must include photographs (aerial or ground-level) that clearly delineate all existing structures; existing storage, treatment, and disposal areas; and sites of future storage, treatment, or disposal areas (see instructions for more detail).

13. Comments

PHOTOGRAPHS
RCRA PART A PERMIT RENEWAL APPLICATION
NAVAL WEAPONS STATION EARLE
COLTS NECK, NEW JERSEY
FEBRUARY 16, 2016

No.1 Western exterior of Hazardous Waste Storage Facility (HWSF) (Building C-63)

No.2 Eastern exterior of HWSF (Building C-63)



No.3 Interior corridor of HWSF (Building C-63)

No.4 Acidic waste storage area in HWSF

No.5 General waste storage area in HWSF

NO.6 General waste storage area in HWSF

No.7 Exterior of satellite accumulation area (SAA) at Locomotive Repair shop (Building C-50)

No.8 Interior of SAA at Locomotive Repair shop (Building C-50)

No.9 Exterior of SAA at the Oil and Hazardous Materials Simulated Environmental Test Tank (OHMSETT)

No.10 Interior of SAA at the OHMSETT

PART B

1.0 SUBPART B - GENERAL FACILITY STANDARDS

This section provides general information regarding Naval Weapons Station (NWS) Earle's location, operations, history, service facilities, and security arrangements. Where appropriate, this section also will refer the reader to locations in other sections of this permit application where more detailed information on specific subjects may be found.

1.1 GENERAL DESCRIPTION

Naval Weapons Station Earle (NWS Earle) is a United States Navy ammunition depot located in the central coastal region of Monmouth County, New Jersey, approximately 47 miles south of New York City and 70 miles northeast of Philadelphia (Figures 1-1 and 1-2). The installation covers a total area of 11,851 acres and is composed of two separate land areas (Figure 1-3), the inland Mainside Area and the Waterfront Area. The Mainside Area, located in parts of Colts Neck Township, Howell Township, Wall Township, and Tinton Falls, encompasses magazine storage and industrial support facilities as well as administrative and personnel support services. The Waterfront Area, located in Middletown Township on Sandy Hook Bay, contains barricaded rail sidings for staging ordnance material, homeporting facilities, and a pier/trestle complex. Normandy Road, a 15-mile military road and rail line, connects the two areas. The current site of NWS Earle was approved as a suitable location for a Naval ammunition depot in 1943. The current mission of NWS Earle includes:

- Providing all ordnance for all Atlantic Fleet Carrier and Expeditionary Strike Groups.
- Providing logistics and administrative support to homeported ships.
- Providing support for strategic Department of Defense (DOD) ordnance requirements.

NWS Earle is a primary East Coast Fleet Support Activity with a mission to provide ammunition logistics to Navy, United States Marine Corps, Coast Guard units, and shore activities in the northeastern United States. The productive work at NWS Earle can be divided into five broad functional areas. These functional areas are shown in the list of major work functions below. The indirect (overhead) functions are standard elements of command (e.g., security, safety, fire protection, supply, public works, personnel administration, etc.) and are not included in this list.

The major functions of the Station include:

- Direct fleet support
  - Ship on/offloading of ammunition/weapons
  - Receipt, segregation, storage, and issue of ammunition and weapons

- Cargo ammunition transshipment for
  - Air Force
  - Army
  - Marine Corps
  - Navy
  - DOD customers
- Ordnance maintenance
  - Fleet logistic support equipment maintenance
- Demilitarization activities (limited to emergency demilitarization of unstable munitions)
- Other services
  - Ammunition ship homeporting (basic operation services)

The Military Sealift Command (MSC), an organization within the Navy, operates a fire training school as part of NWS Earle on Route 33 in Freehold, New Jersey, within NWS Earle Mainside Area. Military and civilian personnel receive training in onboard firefighting with ship deck, helicopter, and airplane mock-ups.

The Oil and Hazardous Materials Simulated Environmental Test Tank (OHMSETT), operated by MAR (MD) LLC, is located in the Waterfront Area of NWS Earle. OHMSETT is maintained and operated by a contractor for U.S. Department of Interior's Bureau of Safety and Environmental Enforcement (BSEE). OHMSETT is used for full-scale oil spill response equipment testing, research, and training. This facility includes a 2.6-million gallon capacity, concrete test basin to test full-scale oil spill response equipment in a marine environment under controlled, environmentally safe conditions.

The NWS Earle Environmental Division has primary responsibility for coordinating hazardous waste (HW) management and all environmental compliance functions for the installation.

1.2 APPLICABILITY

[40 CFR 270.14(b)(1)]

This Permit Application is a renewal application for an existing Hazardous Waste Storage Facility (HWSF). The HWSF, Building C-63, is used for storage of drums of liquid and non-liquid waste material. The HWSF is located more than 2,000 feet from the nearest property boundary, within the Mainside Area administration area, on Saipan Road, approximately 70 feet north of Building S-83 (Figure 1-4). The HWSF was constructed in 1999 to replace one indoor storage area, Building QH-8, and one outdoor storage area, the Demil Storage Pad.

Certified engineering drawings for the HWSF are on file with the NJDEP and are not included with this permit renewal application. The HWSF consists of an approximately 5,000-square-foot, enclosed, one-story, masonry and steel structure. The structure includes a small office area, equipment storage space, and compartmentalized hazardous waste storage areas (each with an individual containment system as well as a berm surrounding the perimeter of the storage area) (Figure 1-5). The floor of the building is above the surrounding grade. No modifications, upgrades, or changes have been made to the HWSF since its construction in 1999. The HWSF is surrounded by exposed earthen or landscaped areas and paved areas.

The seven designated waste storage areas within the HWSF are summarized in the table below, along with the permitted maximum capacity of each hazardous waste storage room.

Hazardous Waste Storage Facility (Building C-63) Maximum Storage Capacities

Waste Storage Area	Maximum Capacity (gallons)
113 Oxidizer Waste	1,272
114 Reactive Waste	3,011
115 Caustic Waste	3,486
116 Flammable Liquid Waste	4,701
117 General Waste	5,892
118 Acidic Waste	4,692
119 Organic Waste	5,920

Currently, five satellite accumulation areas (SAAs) are located at the Mainside Area (Figure 1-6) and two at the Waterfront Area (Figure 1-7). The SAAs are storage locations at or near the point of generation where hazardous wastes are initially accumulated by tenant activities in quantities up to 55-gallons. Waste at SAAs in excess of 55-gallons is transported either to a 90-day storage shed or directly to the HWSF. Three 90-day storage sheds are located at the Mainside Area (Figure 1-6) and three at the Waterfront Area (Figure 1-7). The 90-day storage sheds are used for temporary, secure storage of waste generated by tenant activities in excess of 55-gallons prior to transport to the HWSF (Building C-63) for storage, characterization, and off-site disposal or recycling. The locations and number of SAAs is subject to change based on waste generation activities and storage needs.

The Naval installation's physical address is:
Department of the Navy
Naval Weapons Station Earle
201 Highway 34
Colts Neck, New Jersey 07722-5031

The Naval installation's mailing address is:
Naval Weapons Station Earle
Environmental Division
201 Highway 34
Building C-23
Colts Neck, New Jersey 07722-5031

1.3 IDENTIFICATION NUMBER

[40 CFR 264.11]

NWS Earle is located in Colts Neck, Monmouth County, New Jersey. HW storage is carried out under Resource Conservation and Recovery Act (RCRA) United States Environmental Protection Agency (EPA) identification (ID) No. NJ0170022172.

1.4 REQUIRED NOTICES

[40 CFR 264.12]

This section does not apply since NWS Earle does not receive hazardous waste from foreign sources or from off-site sources.

Wastes Unacceptable to the Facility

NWS Earle does not accept wastes from off site. However, if at some future date NWS Earle plans to accept off-site wastes, a permit modification approved by the NJDEP would be required. In addition, the following protocol will be followed. NWS Earle should be fully informed of the contents of the waste in detail prior to shipment. Should any of these items prove to be different from what is specified on the shipping documents, or is in any other way unacceptable, NWS Earle personnel will:

- Not accept the material from the hauler.
- Instruct the hauler to contact the generator for further instructions.
- Telephone the generator and inform the generator that the owner or operator is not authorized to accept the material.
- Confirm the telephone call to the generator with a letter verifying the telephone conversation.
- Telephone the New Jersey Department of Environmental Protection (NJDEP) Central Compliance and Enforcement office at 609-292-3962 to report the unauthorized shipment.
- Confirm the telephone call to NJDEP with a letter verifying the telephone conversation.

1.5 GENERAL WASTE ANALYSIS

[40 CFR 261, 264.13, 270.14(b)(2)]

The chemical and physical characteristics of wastes stored at the NWS Earle HWSF are described in this section along with a waste analysis plan for sampling, testing, and evaluating the wastes to ensure that sufficient information is available for their safe handling, storage, and disposal.

(a) Chemical and Physical Analysis

List of Hazardous Waste Stored at Facility

The NWS Earle installation receives and stores Naval ordnance items. The installation provides support services to homeported ships at the NWS Earle piers while the ships are in a "cold iron" condition. Based on the last four Biennial Reports that were submitted to the NJDEP, the following is a general description of over 95 percent of the volume of all RCRA-regulated hazardous, non-hazardous, and universal wastes that are handled at the HWSF:

- Oil-based and latex paints, paint thinner, and paint removal materials such as dry paint residue from spray booths and abrasives from paint stripping.
- Solid wastes containing flammable liquids, such as oily rags and spill debris from cleaning petroleum product spills.
- Lead-containing ash from destroyed munitions.
- Spent cutting fluids and industrial solvents containing various wastes from parts cleaning and other processes.
- Spent fuel such as JP-5, gasoline, diesel, and kerosene; crankcase lubricant; used motor oil; and spent oil filters and fuel filters from installation vehicles.
- Spent oxygen breathing apparatus (OBA) and emergency evacuation breathing devices (EEBDs) from Navy ships.
- OHMSETT waste (toluene/acetone/oil mixture).
- Spent adhesives used in ships and Public Works Department (PWD) shops.
- Spent oxidizers and test kits used for the on-base swimming pool.
- Universal wastes including batteries, pesticides, mercury-containing materials, lamps, and aerosol cans.

The remaining wastes are generated in small quantities and their compositions are typically known by the generator. Most of these wastes are generated by taking new material, defined by specification, and using

it in some clearly defined process such as degreasing. Therefore, the need for the analysis of all Appendix VIII parameters is not indicated for most of these waste streams. A listing of HW types generated at NWS Earle over the past 10 years is provided in Table 1-1, and a list of active Waste Information Profiles (WIPs) and corresponding activities are identified in Table 1-2.

(b) Waste Analysis Plan (40 CFR [270.14(b)(4)]

Test Methods

Initial Characterization - Samples obtained from waste streams will be initially characterized according to the analysis methods appropriate for the applicable process and parameters being tested. Table 1-3 summarizes the typical analytical methods based on WIP waste streams, which represent many different matrices requiring different sample preparation techniques and associated quality control (QC) samples.

For example, analysis of waste solvents from a degreasing operation represents a relatively concentrated sample. Therefore, the laboratory will be advised to screen the sample using headspace analysis or hexadecane extraction to establish the necessary dilution prior to final analysis. Use of a field or trip blank sample in this case is not indicated because trace contaminants would not affect the quality of the sample results. However, laboratory or method blanks are indicated to determine the effect of possible laboratory contamination on the diluted sample, as well as duplicate sampling and analysis to establish control over the precision and accuracy of the characterization.

It should be noted that in cases where material exists in its original labeled container, the material specification will be used to determine an acceptable treatment or disposal method.

Sampling Methods

The goal of the sampling program is to obtain random representative samples free from contamination introduced by sampling equipment or other samples and to analyze these samples for characteristic or toxic properties to determine if the waste is hazardous.

The sampling program is based on *EPA's Test Methods for Evaluating Solid Waste: Physical/Chemical Methods* (SW-846 3rd Edition, Update V, July 2014) and the NJDEP Field Sampling Procedures Manual (August 2005). Table 1-4 lists the sampling equipment to be used, depending on the type of storage container to be sampled. Samples will be collected by trained contractor personnel, proceeding where possible from the least contaminated to the most contaminated source. Where more than one container of the same material is to be sampled, samples will be taken at random, in accordance with SW-846 guidance.

Samplers will wear disposable gloves during sampling and will change gloves between samples.

Equipment to be used repeatedly to sample will be decontaminated between sampling events using the following procedure, described more fully in the NJDEP Field Sampling Procedures Manual, Section 2.4.1:

1. Non-phosphate detergent wash
2. Tap water rinse
3. Distilled/deionized water rinse
4. 10-percent nitric acid rinse, only if the sample is to be analyzed for metals
5. Distilled/deionized water rinse, only if the sample is to be analyzed for metals
6. Pesticide grade acetone rinse, only if the sample is to be analyzed for organics
7. Total air dry or nitrogen blow-out, only if the sample is to be analyzed for organics
8. Distilled/deionized water rinse

Frequencies of Analysis

Table 1-3 presents the frequency of analysis for each waste stream. Where there are several containers of the same material, the number of containers to be sampled will be determined by the cube root of the total number, or 10 percent, whichever is greater. An example of this approach follows:

Number of Drums	Samples
1 to 7	1
8 to 15	2
16 to 35	3

Waste Profiles

The typical waste streams at NWS Earle are the result of a limited number of relatively stable industrial processes that have been used consistently at NWS Earle for many years.

Installation Operations

The operations at the installation that potentially generate HWs consist of receiving, storing, and maintaining different types of ammunition, explosives, mines, and related components; demilitarizing ammunition and explosives from various sources; maintaining and operating facilities and equipment for installation support personnel and station tenants.

Wastes generated and stored on site are both solid and liquid, with the majority being generated from the daily maintenance of facilities and equipment. The detonation of ammunition generates a small percentage of HW, which is ash that is a potentially a lead toxicity characteristic hazardous waste.

Quality Assurance and Quality Control

Quality Control Samples - The use of QC samples will indicate the reliability of the data generated, as well as helping to pinpoint areas where faulty data might have arisen. Where possible, as in field blanks, the samples will be labeled as routine project samples. The QC samples were chosen following the guidance provided in Chapters 1 and 9 of Volume 2 of SW-846. A description of the types of QC samples and their frequencies of use follows:

- Laboratory or Method Blanks - a portion of analyte-free water taken through the entire preparation and analysis procedure in the laboratory. Analyte-free water will also be used as blanks for soil samples.

- Field Blanks - will consist of two sets of containers, one full of analyte-free water, the other empty. At the site, the water from one container will be poured through decontaminated sampling equipment into an empty container. These samples will be collected at the rate of one per aqueous matrix per day and will be analyzed for the same parameters as samples collected that day. Field blanks for non-aqueous samples will be analyzed for volatile organic compounds (VOCs) only, and only when VOCs are parameters of concern, at a rate of one field blank per day.

- Trip Blanks - will consist of containers of analyte-free water filled in the laboratory, taken to the field, and returned to the laboratory unopened. These will be analyzed for VOCs only at the rate of one per sampling excursion where VOCs are parameters of concern and where aqueous samples are collected.

- Duplicate/Spike Samples - duplicates will be collected at a rate of one per sampling event or one per 20 samples, whichever is greater. In the case of soil and water samples for trace contaminants, a sample will also be spiked in duplicate, as called for under the appropriate analysis method.

Field Analysis - Analyses that must be conducted in the field to ensure that changes in sample chemistry do not take place in transit, such as changes in pH, will be performed according to the laboratory equipment manufacturer's operating instruction. This will include calibration and blank runs, decontamination between analyses, and replicate analyses.

Laboratory Quality Assurance and Quality Control - The quality assurance (QA) program required of each laboratory used by NWS Earle will focus on the following:

- Documented procedures – The laboratory will be required to submit a laboratory QA plan that will include (or have submitted separately) a methods manual or list of Standard Operating Procedures (SOPs). These documents will provide guidance to laboratory personnel in conducting sample preparation and analysis, as well as outlining the QC steps to be taken to evaluate the results of sample analysis. These documents will be reviewed by the contracting activity.

- Laboratory QA coordinator - The laboratory organization will feature a QA coordinator, removed from the production part of the laboratory and preferably reporting to the laboratory director. He/she will have the authority to stop work if the quality of results is questionable.

- Use of accepted analytical methods - Where methods exist that are approved by NJDEP and EPA, as in the SW-846 manual, these methods will be used, including the recommended QC aspects of the methods. In cases where approved methods do not exist, as for munitions residues, methods developed by the United States Army and others will be submitted to NJDEP for review. In any case, methods used for sample analysis will be documented and followed, either by reference to published methods or by inclusion in the laboratory SOP manual.

- Chain of custody - Procedures outlined in Chapter 9, Volume 2 of SW-846 will be in place and followed to ensure that the samples obtained in the field will be monitored as they are transported to the laboratory, stored in the laboratory, transported from storage to individual analysis areas, and transported back to storage.

- Corrective action policy - The laboratory QA manual must define a corrective action policy to cover instances, for example, where surrogates do not meet recovery limits. The policy must allow for resampling and/or reanalysis in cases of gross exceedances of holding times, faulty gas chromatography/mass spectrophotometer (GC/MS) tune data, etc.

- Data validation, review, and reporting - The laboratory must have procedures in place to take raw data from the instruments or operations, compare it to QC sample data and laboratory guidelines (such as control charts or Contract Laboratory Program [CLP] data summary forms), and report that data in an organized format with appropriate qualifiers. The laboratory will show the ability to generate an NJDEP Tier I data package, which will be used to submit electronic data to NJDEP for this project.

Packaging and Shipment

The samples will be transported to the laboratory in an expeditious manner, avoiding chemistry changes in samples caused by excess heat, excess time in transit, or exposure to highly concentrated samples.

Samples will be prepared for shipment by preservation methods such as acidification of water samples for metals analysis. Following preservation, samples will be placed in thermal chests containing sufficient bags of ice to ensure a temperature of less than or equal to 4 degrees Celsius (4° C) during shipment to the laboratory. Highly concentrated samples, as from the degreasing operation (waste solvent), will be placed in a separate chest from suspected low-level samples. The thermal chests and their associated chain-of-custody forms will, after inspection by Station security, be transported to the laboratory. If the samples cannot be driven directly to the laboratory, an overnight premium transport service will be used. Laboratory personnel will acknowledge receipt of the samples at the time of their arrival through signature of the chain-of-custody forms and will check preservation prior to placing the samples in storage.

The sample container to be used as well as preservation methods and holding times for each type of sample to analyze waste solids and liquids to determine if they are hazardous is summarized in Table 1-5. Further detailed information is contained in the 3rd edition SW-846 document (Tables 2-40A, 2-40B, 3-2, and 4-1) and the NJDEP Field Sampling Procedures Manual (Tables 2.3 and 2.6).

Chain-of-Custody Procedures

Procedures outlined in Chapter 9, Volume 2 of SW-846 will be in place and followed to ensure that the samples obtained in the field will be monitored as they are transported to the laboratory, stored in the laboratory, transported from storage to individual analysis areas, and transported back to storage. This will ensure the integrity of the samples.

Collected samples will be secure in a locked container or under visual control at all times, from the point of collection through transport to the laboratory and throughout their residence in the laboratory.

Performance Evaluation of Sampling and Analysis Personnel and Inspection, Maintenance, and Service of Laboratory Equipment

Laboratories contracted for the analyses required by this plan will be NJDEP-certified laboratories. In addition, a review of laboratory qualifications will be conducted by the contracting activity or their representative, focusing on the following areas:

- The laboratory QA program and SOPs discussed above.

- Evidence of satisfactory performance in proficiency testing programs as well as a description of the check samples used daily in the laboratory to assess performance.

- Laboratory facilities such as instrumentation and maintenance programs to ensure reliable operation of the instrumentation.

- Laboratory personnel, their qualifications, and training.

- The system to be used to audit data generation.

Changes in a laboratory's qualifications or procedures will be presented to NJDEP for review. If the state mandates changes for analytical laboratories, NWS Earle will verify that the laboratories to be used comply with all NJDEP laboratory requirements.

1.6 SECURITY

[40 CFR 264.14, 270.14(b)(4)]

There is no unauthorized access to the installation. Every person entering the installation must produce authorized identification at the entry gates to enter the Station. The installation is surrounded by an approximately 8-foot-high chain-link fence topped with barbed wire. There is one main gate leading into the installation. All incoming traffic is required to go through a security/identification check where entrance passes are issued. This gate is guarded at all times.

Any traffic entering the Station must have obtained an entrance pass at the main gate before admittance is allowed. Figure 1-8 represents the existing traffic patterns at the administrative area. The HWSF is locked when unoccupied. The HWSF is also marked with warning signs declaring: Danger – Hazardous Material Storage Area and Warning – No Smoking, Turn Off Phone.

1.7 GENERAL INSPECTION REQUIREMENTS

[40 CFR 264.14, 270.14(b)(5)]

(a) Inspection Items

Table 1-6 presents the inspection schedule of the HWSF. Maintenance of the inspection items aids in preventing, detecting, or responding to potential or actual environmental or human health hazards. Problems potentially associated with the inspection list items are also detailed in Table 1-6.

(b) Frequency of Inspection

The frequency of inspections, in accordance with 40 Code of Federal Regulations (CFR) 264.174, is indicated in Table 1-6.

(c) Container Inspection and Remedial Action

Inspection of the HWSF will be conducted according to the inspection schedules provided in Table 1-6. Results of each inspection will be recorded on the Weekly Inspection Record (WIR) (Appendix A). Information on the WIR includes the inspector's name and the time and date of the inspection. The inspector is required to check the status of each item on the inspection schedule table and indicate its condition as either satisfactory or unsatisfactory. If the status of a particular item is unsatisfactory, appropriate and complete information must be recorded, including the time, date, and nature of the remedial actions taken.

The inspector denotes any corrective actions needed on the WIR. The inspector will discuss the problem with the first-line supervisor in charge of the area where the problem exists, and a follow-up inspection will be conducted within 3 days. If no corrective action has been taken, the inspector will notify the Hazardous Waste Program Manager (HWPM). The inspector has the authority to stop any operation that, in his opinion, endangers human health or the environment.

(d) Weekly Inspection Records

The WIRs will be maintained and available for at least 3 years from the dates of the inspections.

1.8 PERSONNEL TRAINING

[40 CFR 264.16, 270.14(b)(12)]

The installation generates and stores HWs at the HWSF. Supervised on-the-job training may be used to comply with personnel training requirements set forth by RCRA. The information contained in this section details the responsibilities of the NWS Earle's HWSF employees in addition to outlining the HW facility personnel training program.

(a) Job Titles and Duties

At NWS Earle, the primary responsibility for coordinating HW management rests with the Environmental Division. The Environmental Director in the Environmental Department is in charge of coordinating Station efforts toward regulatory compliance with environmental matters. Assistance in these efforts is provided to

him by the Hazardous Waste Program Manager and Hazardous Waste Handler. Descriptions of these positions are provided In Appendix B.

The Commanding Officer (CO), Public Works Officer, Environmental Director, Hazardous Material Minimization (HAZMIN) Center Director, and other department heads are involved with management responsibilities concerning compliance with RCRA regulations. These personnel are not involved in the actual handling of wastes. The waste-handling activities are performed by the operators in their individual departments. The duties, responsibilities, and qualifications of each position are as follows:

1. Public Works Officer (PWO).

The PWO is accountable for installation environmental program management at NWS Earle. The PWO ensures that all Facility Engineering and Acquisition Division (FEAD) or Facility Support Contracts (FSC) comply with all Federal, State and Navy environmental regulations. The PWO coordinates with the Environmental Director on any action to be taken to correct environmental deficiencies and ensure compliance with HW management regulations.

2. Environmental Director.

The Environmental Director reports directly to the PWO and is responsible for the station-wide coordination and implementation of the Environmental Program. The Environmental Director is also the Installation's Environmental Program Manager (IEPM) and serves as the principal advisor to the CO on environmental compliance oversight, conservation management, and pollution prevention. S/He I coordinates with Federal, State, and local HW regulatory officials and oversees mission, tenant, and contractor operations on Station to ensure compliance with HW regulations. The Environmental Director shall also serve as the budgeting interface with the N45/Business Line Coordinator for mission HW disposal requirements.

3. Hazardous Waste Program Manager.

The HWPM reports to the Environmental Director and is responsible for the day-to-day administrative and management aspects of the HW Program, all compliance reporting and recordkeeping requirements mandated by law. Oversees operations at the RCRA permitted storage facility, building C-63. S/He shall ensure that personnel involved in HW operations and program management are trained in accordance with Federal and State law.

4. Hazardous Waste Handler.

The hazardous waste handler reports to the HWPM for daily work assignments. S/He is responsible for proper labeling, coordinating HW removal and transportation to the TSDF, weekly inspections of the Part B facility and 90-day accumulation area inspections, and maintaining all related inspection records.

5. Hazardous Waste Coordinators.

All Station Departments and Tenant Commands that have a SAA or less-than-90-day hazardous waste accumulation site shall assign a Hazardous Waste Coordinator to serve as liaison with the HWPM on environmental program management issues. HW Coordinators and locations list is located at building C-63. Responsibilities consist of collecting, containerizing, labeling, and marking HW containers. HW coordinators are also responsible for ensuring funding is available for HW disposal, arranging HW transportation to the RCRA permitted storage facility, and attend required annual training.

6. HAZMIN Center Director.

The HAZMIN Center Director is responsible for maintaining records and inventories of hazardous materials stocked and distributed via the HAZMIN Center. The HAZMIN Center Director shall ensure that Safety Data Sheets (SDSs) are received and a central library maintained. SDSs shall be distributed to shop personnel, the hazardous waste handler, HWPM, and Fire and Emergency Services personnel as necessary to facilitate HW characterization and emergency response. Supply personnel shall require manufacturers or vendors to properly label all hazardous material (HM) prior to shipment and to provide a SDS for material procured. These requirements shall be included as part of each purchase contract involving HM. The HAZMIN Center coordinates with the Environmental Division and Station Departments on the reuse of excess Hazardous Materials to reduce potential generation of hazardous waste.

7. Supervisors of departments, tenants, and visiting or homeported ships will:

a. Provide suggestions to the Hazardous Material Control and Management Committee (HMCMC) via department heads for enhancing sound HW management, including contributing to the development of a prioritized material procurement program aimed at hazard and cost reduction.
b. Ensure that the advice of Safety and Occupational Health Specialists and the Environmental Director are followed.
c. Ensure that the integrity of HW storage containers is maintained, that labels are intact and prominently displayed, and that personnel protection measures are assured, provided, and used.
d. Maintain accountability in the form of working inventories for all HM used in their shops and HW generated until release to the appropriate authority.
e. Respond to personnel inquiries regarding HW problems and consult with the Environmental Division for a solution.
f. Report or act immediately upon personnel reports of HW spills or accidents by contacting the Station Dispatch at x2911.

g. Maintain a working knowledge of the HW existing in their shops, through consultation with the Environmental Division.

h. Ensure that HM and HW consolidation results are properly labeled containers for each HW and that discarded containers are treated as contaminated waste.

i. Monitor shop practices on a routine basis for compliance with the recommendations of HW management personnel and technical experts.

j. Ensure that standard job procedures (SJPs) identify safety procedures for handling and disposing of HW and that SJP are readily accessible.

Training Content, Frequency, and Technique

Personnel directly responsible for HW management are properly trained via on-the-job training, online instruction, and/or formal classroom training. The modules of the classroom training are presented in a manner that allow them to be taught as a full HW training course or as separate units for personnel involved with specific components of the HW management program. The training program and the on-the-job training received by personnel at NWS Earle satisfies 40 CFR 264.16 training requirements.

A majority of personnel training will be given on the job by the area supervisor because various handling and operating procedures and different ways of handling emergencies and accidents are anticipated in various areas.

Personnel who become involved in any aspect of the HW operations at the installation will receive HW training within the first 6 months of their assignment. Personnel must also receive an annual training recertification to acquaint themselves with any updated RCRA regulations, any new HWs being handled or HW operations, or any incidents that have occurred over the past year and how they were handled.

Documentation of personnel training or task experience for all personnel involved in HW operations at NWS Earle will be kept on file at the installation. All training records (initial and annual review) for all personnel assigned to NWS Earle will be kept until installation closure or for 3 years from the date the person leaves the Station.

Training Coordination

All environmental training is coordinated via the HWPM. All environmental training records are on file at the Environmental Department.

Relevance of Training to Job Position

The training program at NWS Earle is applicable to all personnel involved in the handling and management of HWs.

Training for Emergency Response

The training program provides an overview for those personnel who handle hazardous waste on a regular basis and a much more extensive program for those involved in emergency spill response. The overall objective of the training program is to familiarize personnel involved with the handling of HW and/or management of HW operations at NWS Earle under both normal and emergency operating conditions.

The training ensures that personnel who handle HW do so in a safe manner and that they are capable of responding to an emergency situation. The training covers what actions must be taken in non-routine and emergency situations involving HW operations, including:

- Responses to fires and/or explosions.
- Contingency planning.
- Spill response, cleanup and containment, and decontamination.
- Procedures for using, inspecting, repairing, and replacing installation emergency and monitoring equipment.
- Emergency communications and alarm systems.
- Shutdown of operations and power failure procedures.
- Procedures for evacuating Station personnel and people in nearby areas.

All new personnel assigned to NWS Earle are trained within 6 months of their assignment to the hazardous waste operations at the Station.

The annual training review will refamiliarize personnel with the installation operations and update them on any changes. The review will cover:

- An overview of the training program, covering the possible problem areas associated with Station operations.
- The HWs generated and stored at the installation, updating new laws governing the handling of these wastes. Also, any new HMs or HWs at the installation will be discussed.
- The status of all HW/HM operations at the installation, including discussion of new operations, changes in SOPs, or the shutdown of an existing operation. Potential problems and emergency situations that may arise will also be discussed.

- Any changes in Station operations as a result of RCRA permit problems.
- Incidents at NWS Earle that warranted the activation of the contingency plan or emergency procedures will be discussed. Causes, the response alterative taken, and resulting effects will also be reviewed.

Records documenting training for all Station personnel, their positions, task descriptions, and names will be kept at the HWSF. All records will be kept until closure of the installation or 3 years after an individual has left the Station.

1.9 GENERAL REQUIREMENTS FOR IGNITABLE, REACTIVE, OR INCOMPATIBLE WASTES

[40 CFR 264.17, 270.14(b)(9)]

The HWSF is located more than 50 feet from the NWS Earle property boundary. Incompatible wastes and materials are not placed in the same container and are not placed in containers that previously held an incompatible waste or material. Incompatible wastes are stored in separate areas of the HWSF.

Precautions are taken to prevent ignition or reaction of ignitable or reactive waste. These wastes are protected from sources of ignition or reaction including, but not limited to, open flames, smoking, cutting and welding, hot surfaces, frictional heat, sparks, spontaneous ignition, and radiant heat.

While ignitable or reactive waste is being handled, smoking and open flames are not allowed. "No Smoking" signs are conspicuously placed. Smoking on Station is allowed only in specially designated areas.

Ignitable or reactive waste are stored so as to not:

- Generate extreme heat or pressure, fire or explosion, or violent reaction.
- Produce uncontrolled mists, fumes, dusts, or gases in sufficient quantities to threaten human health.
- Produce uncontrolled flammable fumes or gases in sufficient quantities to pose a risk of fire or explosion.
- Damage the structural integrity of the device or facility containing the waste.
- Threaten human health or the environment.

(a) Precautions to Prevent Ignition or Reaction of Ignitable or Reactive Wastes

Drums containing ignitable wastes are stored in the HWSF. To prevent any possible sources of ignition, signs are placed in the container storage area with the legends, "No Smoking" and "Danger - Unauthorized Personnel, Keep Out." Smoking is not allowed within 80 feet of the HWSF. The lighting system in the HWSF is a sparkless system, thereby reducing the risk of ignition by that source. The forklift in the HWSF is

equipped with a sparkless ignition system. Should work be required in the building that could produce heat, friction, or sparks (e.g., welding), all waste handling operations will be stopped and waste removed as appropriate. No such work will be done unless the NWS Earle Fire Department issues a hot work permit.

Ignitable and reactive wastes are not treated in the HWSF. Fire suppression systems use aqueous film-forming foam (AFFF) for all storage areas within the HWSF, except those with reactive waste (which use carbon dioxide). Fire suppression systems are housed at the northern end of the building. The contents of the waste storage areas are posted at each of the areas and at the front entrance of the building.

(b) General Precautions for Handling Ignitable or Reactive Wastes and Mixing Incompatible Waste

As with all wastes, precautions are properly taken to prevent accidental mishaps by fire or explosions. The 50-foot buffer zone required for storage of ignitable wastes is more than adequately met, and the container storage area, having sufficient buffer zones and operating standards, is in compliance with National Fire Protection Association (NFPA) Standards (NFPA 30); Flammable and Combustible Liquids Code (1981, revised 2015) for storage of containers holding ignitable or reactive wastes.

(c) Additional Requirements for Facilities Handling Ignitable, Reactive, or Incompatible Waste

Reactive Waste - The Explosive Ordnance Disposal (EOD) Range only accepts unstable explosive charges on an emergency basis and is operated under a Delay-of-Closure Plan (Section 17.0 [Subpart X]). Navy ammunition regulations specify storage and handling procedures for munitions scheduled for demilitarization. An accounting system exists to keep track of each munition in depot storage and transferred to the EOD range for emergency treatment when needed.

Ignitable Waste - Smoking is not permitted on Station except in designated areas. All areas where flammable substances are used or stored are designated as "No Smoking" areas. Leaking containers of ignitable wastes are immediately overpacked and the leaked contents cleaned up with absorbent material and placed in overpack.

(d) Waste Characteristic Limitations

A serviceability determination of explosive materials is made by resident personnel. Detailed SOPs and other reference materials provide all the information necessary to make the categorization. Unserviceable explosive materials are then scheduled for the appropriate demolition process.

(e) Process Tolerance Limits

The safety regulations at NWS Earle place strict limitations on the quantities of explosives detonated at the EOD Range (Figure 1-6). Detonations at the EOD Range are addressed by the Delay of Closure Plan, discussed further in Section 17.0 (Subpart X.).

1.10 LOCATION STANDARDS

[40 264(18), 270.14(b)(11)]

(a) Seismic Considerations

Section 264.18(a) is not applicable since NWS Earle is located in New Jersey, a state that does not have any political jurisdictions located within 200 feet (61 meters) of a fault that had displacement in Holocene time.

(b) Floodplains

Information obtained from the Federal Emergency Management Agency (FEMA) flood insurance rate maps (FIRMs) show that the portions of the facility where hazardous waste is stored are located outside of the 100-year floodplain, as shown on Figures 1-9 and 1-10. Therefore, standards applicable to facilities located within the 100-year floodplain do not apply. The Waterfront Area is in Zone D, defined as areas in which flood hazards are undetermined but possible (FIRM Panel 34025C0062F, effective date September 25, 2009). The Mainside Area is also in Zone D (FIRM Panels 34025C0168F and 34025C0169F, effective date September 25, 2009).

(c) Salt Dome Formations, Salt Bed Formations, Underground Mines and Caves

Section 264.18(c) is not applicable because there are no salt dome formations, salt bed formations, or underground mines and caves in the vicinity of the HWSF.

1.11 CONSTRUCTION QUALITY ASSURANCE PROGRAM

[40 CFR 264.19]

This section does not apply because NWS Earle does not have any surface impoundments, waste piles, or landfill units.

1.12 TOPOGRAPHIC MAPS AND SITE MAPS

[40 CFR 270.14(b)(19)]

Layouts of the Mainside Area and Waterfront Area are shown on Figures 1-6 and 1-7, respectively. The Station's main entrance gate is on Route 34, which leads to expressway Route 18 located 1 mile away. Route 18 meets the New Jersey Garden State Parkway and New Jersey Turnpike, which are major highways in the state.

Figures 1-9 and 1-10 are topographic maps of the Mainside Area and Waterfront Area. As indicated, these sites lie outside of the known 100-year floodplains.

(a) Land Use

The majority of land within NWS Earle is classified as forest or wetlands, with the remainder classified as urban. The land use surrounding the Mainside Area of the NWS Earle is predominantly classified as urban, with smaller areas classified as agriculture, forest, wetlands, or barren land. The land use surrounding the Waterfront Area of NWS Earle is urban, with areas classified as forest or wetlands. Land use is shown on Figure 1-11.

(b) Wind Rose

The wind rose for Monmouth County is shown on Figure 1-12. The prevailing winds in the area are from the northwest based on the wind rose.

TABLE 1-1
LIST OF WASTES GENERATED THE PAST 10 YEARS
RCRA HAZARDOUS WASTE RENEWAL PERMIT APPLICATION, PART B
NAVAL WEAPONS STATION EARLE
COLTS NECK, NEW JERSEY
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Waste	EPA Hazardous Waste Code
Adhesive	D001 / D035 / U220
Adhesive Kits	D001 / U002
Adhesive Primer	D001
Aerosol Paint	D001
Aerosols (non-paint)	D001
Asphalt Coating	D001
Bondo	D001
Bondo Comp B	D001 / D003
Calcium Hypochlorite	D001
Cans of Cooking Fuel	D001 / U154
Carbon Filters	D001 / D040
Chemical Detector Kits	D001 / D009
Cleaning Solvent	D001
Corrosion Preventive Compound	D001
Cutting Fluid	D001
Denatured Alcohol	D001
Dichloromethane	D001
Diesel Starting Fluid Cylinders	D001
Dodecane	D001
Driveway Sealer	D001
Electrical Coating	D001
Emergency Escape Breathing Device	D001
Emergency Flares	D001
Epoxy Converter	D001
Epoxy Glue	D001
Fiberglass Resin	D001
Gas/Diesel Debris	D001 / D018
Gasoline Spill Debris	D001 / D018
Isopropanol	D001
Isopropyl Alcohol	D001
Liquid Hardener	D001
Magnesium Chlorate	D001
Magnesium Chromate	D001
MAPP Gas Cylinder	D001
Methyl Alcohol	D001

TABLE 1-1
LIST OF WASTES GENERATED THE PAST 10 YEARS
RCRA HAZARDOUS WASTE RENEWAL PERMIT APPLICATION, PART B
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Waste	EPA Hazardous Waste Code
Mineral Spirits	D001
Naptha	D001
Nitrocellulose Membrane Filters	D001
Oil Base Paint	D001
Oxygen Breathing Apparatus	D001
Oxygen Cylinder	D001
Paint Thinner	D001
Parts Degreaser	D001
Petroleum Distillates	D001
Polish	D001
Polyurethane	D001
Potassium Chlorate	D001
Potassium Chromate	D001 / D007
Potassium Superoxide	D001
Pretreatment Washer Primer	D001 / D002
Propane Cylinder	D001
PVC Cleaner	D001
Roofing Tar	D001
Sealer	D001
Silver Nitrate Powder	D001
Sodium Chlorate	D001
Sodium Nitrate	D001
Solids Containing Flammable Liquids	D001
Strontium Chromate	D001 / D007
Turpentine	D001
Used Fuel Filters	D001
Varnish	D001
Wood Finish	D001
Accelerator	D002 / D007
Acetic Acid	D002
Alkaline Cleaner	D002
Alodine	D002
Ammonium Hydroxide	D002
Cooling System Treatment	D002
Corrosion Inhibitor	D002

TABLE 1-1
LIST OF WASTES GENERATED THE PAST 10 YEARS
RCRA HAZARDOUS WASTE RENEWAL PERMIT APPLICATION, PART B
NAVAL WEAPONS STATION EARLE
COLTS NECK, NEW JERSEY
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Waste	EPA Hazardous Waste Code
Enthrone Catalyst 20/A	D002
Ethanolamine	D002
Floor Polish Remover	D002
Floor Stripper	D002
Flux	D002
Free Chlorine Indicator Solution	D002
Gravoxide	D002
Hydrochloric (Muriatic) Acid	D002
Morpholine	D002
Nitric Acid	D002
Paint Remover	D002
Phosphoric Acid	D002
Photo Developer	D002
Photo Fixer	D002
Potassium Hydroxide Solution	D002
Rust Remover	D002 / U134
Sodium Hydroxide / Mercuric Iodide	D002 / D009
Sodium Hydroxide Solution	D002
Sodium Metasilicate	D002
Sulfuric Acid	D002
Trichloroacetic Acid (Medical)	D002
Waste Propelling Charges	D003 / D007 / D008
Water Reactive Wastes	D003
Wastewater with Barium	D005
Wastewater with Cadmium	D006
Gas Mask Cartridges	D007/ D011
Cutting Coolant	D008
Lead Ash	D008
Lead Dental Shields	D008
Lead Paint Chips	D008
Lead Tallate	D008
Broken Mercury Thermostat	D009
Crushed Fluorescent Lamp Bulbs	D009
Mercuric Nitrite	D009
Mercury Amalgam	D009

TABLE 1-1
LIST OF WASTES GENERATED THE PAST 10 YEARS
RCRA HAZARDOUS WASTE RENEWAL PERMIT APPLICATION, PART B
NAVAL WEAPONS STATION EARLE
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Waste	EPA Hazardous Waste Code
Silver Recovery Filters	D011
Spent Photo Fixer/ Developer	D011
Wastewater with Silver	D011
Weed-Be-Gone Pesticide Waste	D016
Wastewater with Benzene	D018
Chloroform	D022
Methyl Ethyl Ketone	D035
Trichloroethene	D040
Spent Halogenated Solvent	F001/ F003/ F005
Spent Non-Halogenated Solvent	F003/ F005
Toluene / Acetone / Oil Mixture	F005
Acetone	U002
Chloroform	U044
Cyclohexanone	U057
1,4-Dioxane	U108
Formaldehyde	U122
Hydrazine	U133
Hydrofluoric Acid	U134
Methanol	U154
Methyl Ethyl Ketone	U159
Methyl Ethyl Ketone Peroxide	U160
Methyl Isobutyl Ketone	U161
Phenol	U188
Toluene	U220
1,1,1 Trichloroethane	U226
Total Xylenes	U239
Ethylene Glycol Monoethyl Ether	U359

TABLE 1-2
ACTIVE WASTE INFORMATION PROFILES
RCRA HAZARDOUS WASTE RENEWAL PERMIT APPLICATION, PART B
NAVAL WEAPONS STATION EARLE
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Active WIP No.	Name of Waste	EPA Waste Code	Process Generating Waste	Mode of Collection
DR01	oily rags	non-regulated	Navy ships	55-gallon drum and CY box
DR02	oily spill debris	non-regulated	petroleum product spills	55-gallon drum and CY box
DR03	oil and water mixtures	non-regulated	oil-water separator maintenance	55-gallon drum
DR04	cooking oil	non-regulated	Navy ship galleys	55-gallon drum
DR05	oil-based paint (original containers)	D001	painting operations	original containers overpacked in drums or CY boxes
DR06	fluorescent lamps	universal	electrical maintenance shops	fiber board box
DR07	aerosol cans	universal	ships / work shops	55-gallon drum
DR08	lead ash	D008	open burning of non-serviceable ammunition	30-gallon drum
DR09	ballasts (non-leaking/non-PCB)	universal	electrical lighting repair	5-gallon drum
DR10	mercury	D009	dental office	jar
DR11	paint thinner	D001	paint shop	55-gallon drum
DR12	grease (original containers)	non-regulated	automotive vehicle shops	cans overpacked in drum
DR13	anti-freeze	non-regulated	automotive vehicle shops	55-gallon drum
DR14	lead paint chips	D008	paint removal	55-gallon drum
DR15	latex paint	non-regulated	PWD shops	55-gallon drum
DR16	oil filters	non-regulated	automotive vehicle shops	55-gallon drum
DR17	alkaline batteries	universal	various work centers	5-gallon bucket
DR18	lithium batteries	universal	various work centers	1-gallon bucket
DR19	Ni-Cd batteries	universal	various work centers	5-gallon bucket
DR20	lead-acid dry batteries	universal	PWD shops	30-gallon drum
DR21	JP-5 fuel	D001	-	55-gallon drum
DR22	mercury vapor HID lamps	universal	PWD shops	5-gallon bucket
DR23	AFFF	non-regulated	fire station	55-gallon drum
DR25	adhesives (original containers)	D001	Navy ships and PWD shops	containers overpacked in 55-gallon drum
DR26	calcium hypochlorite	D001	MWR swimming pool	5-gallon bucket
DR27	toluene / acetone / oil mixture	F005	spill control testing laboratory	55-gallon drum
DR28	potassium chlorate	D001	-	-

TABLE 1-2
ACTIVE WASTE INFORMATION PROFILES
RCRA HAZARDOUS WASTE RENEWAL PERMIT APPLICATION, PART B
NAVAL WEAPONS STATION EARLE
COLTS NECK, NEW JERSEY
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Active WIP No.	Name of Waste	USEPA Waste Code	Process Generating Waste	Collection Mode
DR29	sodium chlorate	D001	training security dogs	-
DR30	cleaning detergents	non-regulated	-	-
DR31	potassium chromate	D001	-	-
DR32	acetone	U003, D001	-	-
DR33	silflex coating	non-regulated	-	-
DR34	asphalt coating	D001	-	-
DR35	PCB-contaminated oil	non-regulated	-	-
DR36	bromine cartridges	non-regulated	-	30-gallon drum
DR37	asbestos	non-regulated	renovations	bags or wrapped
DR38	phosphoric acid	D002	PWD shops	-
DR39	sulfuric acid	D002	-	-
DR40	sodium hydroxide	D002	PWD shops	-
DR41	alkaline cleaner	D002	-	-
DR42	propane cylinders	D003	PWD shops	-
DR43	pepper spray	non-regulated	security	-
DR44	dichloroethane	D001	-	-
DR45	sodium metasilicate	D002	-	-
DR46	sea dye marker	non-regulated	Navy ships	box
DR47	liquid floor wax and polish	non-regulated	-	-

AFFF Aqueous film-forming foam.
CY Cubic yard.
HID High-intensity discharge.
MWR Morale, Welfare and Recreation.
Ni-Cd Nickel-cadmium.
PCB Polychlorinated biphenyl.
PWD Public Works Department.
WIP Waste Information Profile.

TABLE 1-3
WASTE CHARACTERIZATION
RCRA HAZARDOUS WASTE RENEWAL PERMIT APPLICATION, PART B
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WIP	Name of Waste/ Waste Description	EPA Waste Code	Process Description or Source of Waste	Parameters to Be Analyzed	Rationale	Methods of Analysis	Reference	Frequency of Analysis*
DR05	oil-based paint (original containers)	D001	painting operations	Flashpoint VOCs SVOCs Metals	Ignitable Toxicity	1010 or 1020 5030/8260 Spec. or 8270 3050/6020	(1) (1) (1) (1)	Annual
DR08	lead ash	D008	open burning of non-serviceable ammunition from demilitarization range	TCLP Metals, Reactivity	Toxicity Reactivity	1311/6020 Specification	(1) (2) (3)	Annual
DR10	mercury	D009	dental office	Mercury	Toxicity	3050/6020	(1)	Annual
DR11	paint thinner	D001	paint shop	Flashpoint	Ignitability	1010 or 1020	(1)	Annual
DR14	lead paint chips	D008	paint removal, spent abrasive	TCLP Metals	Toxicity	1311/6020	(1) (2)	Prior to Disposal
DR21	JP-5 fuel	D001	-	Flashpoint	Ignitability	1010 or 1020	(1)	Annual
DR24	cutting fluid	D001	PWD machine shop	Flashpoint	Ignitability	1010 or 1020	(1)	Annual
DR25	adhesives (original containers)	D001	Navy ships and PWD shops	Flashpoint VOCs SVOCs	Ignitability Toxicity Toxicity	1010 or 1020 5030/8260 Spec. or 8270	(1) (1) (1)	Annual
DR26	calcium hypochlorite	D001	MWR swimming pool	Flashpoint	Ignitability	1010 or 1020	(1)	Annual

TABLE 1-3
WASTE CHARACTERIZATION
RCRA HAZARDOUS WASTE RENEWAL PERMIT APPLICATION, PART B
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WIP	Name of Waste/ Waste Description	EPA Waste Code	Process Description or Source of Waste	Parameters to Be Analyzed	Rationale	Methods of Analysis	Reference	Frequency of Analysis*
DR27	toluene / acetone / oil mixture	F005	spill control testing laboratory	Flashpoint	Ignitability	1010 or 1020	(1)	Annual
DR28	potassium chlorate	D001	-	Flashpoint	Ignitability	1010 or 1020	(1)	Annual
DR29	sodium chlorate	D001	training security dogs	Flashpoint	Ignitability	1010 or 1020	(1)	Annual
DR31	potassium chromate	D001	-	Flashpoint	Ignitability	1010 or 1020	(1)	Annual
DR32	acetone	D001 U003	-	Flashpoint	Ignitability	1010 or 1020	(1)	Annual
DR34	asphalt coating	D001	-	Flashpoint	Ignitability	1010 or 1020	(1)	Annual
DR38	phosphoric acid	D002	PWD shops	pH	Corrosivity	9040	(1)	Annual
DR39	sulfuric acid	D002	wet battery acid	pH Lead	Corrosivity Toxicity	9040 6020 or 7420	(1) (1)	Annual
DR40	sodium hydroxide/ potassium hydroxide	D002	PWD shops, torpedo batteries	pH	Corrosivity	9040	(1)	Annual
DR41	alkaline cleaner	D002	-	pH	Corrosivity	9040	(1)	Annual
DR42	propane cylinders	D003	PWD shops	None	User Knowledge	NA	NA	NA

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WIP	Name of Waste/ Waste Description	EPA Waste Code	Process Description or Source of Waste	Parameters to Be Analyzed	Rationale	Methods of Analysis	Reference	Frequency of Analysis*
DR44	dichloroethane	D001 U080	-	Flashpoint VOCs	Ignitability Toxicity	1010 or 1020 5030/8260	(1) (1)	Annual
DR45	sodium metasilicate	D002	-	pH	Corrosivity	9040	(1)	Annual
Typical Generated Wastes Without WIP Numbers								
-	spilled gasoline/ gasoline debris	D001 D018	PWD shops	Flashpoint VOCs	Ignitability Toxicity	1010 or 1020 5030/8260	(1) (1)	Annual
-	OBA canisters	D001 D003	Navy ships	None	User Knowledge	NA	NA	NA
-	EEBDs	D001 D003 D005	Navy ships	None	User Knowledge	NA	NA	NA
-	carbon filters	D001 D040	Various	Flashpoint VOCs	Ignitability Toxicity	1010 or 1020 5030/8260	(1) (1)	Annual

TABLE 1-3
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WIP	Name of Waste/ Waste Description	EPA Waste Code	Process Description or Source of Waste	Parameters to Be Analyzed	Rationale	Methods of Analysis	Reference	Frequency of Analysis*
-	waste solids containing flammable liquids	D001	Navy ships and PWD shops	Flashpoint VOCs SVOCs	Ignitability Toxicity Toxicity	1010 or 1020 5030/8260 Spec. or 8270	(1) (1) (1)	Annual
-	waste solvents	D001 D035 U154 U161	Navy ships and PWD shops	Flashpoint VOCs SVOCs	Ignitability Toxicity Toxicity	1010 or 1020 5030/8260 Spec. or 8270	(1) (1) (1)	Annual

Notes:
EEBD Emergency escape breathing device.
EPA Environmental Protection Agency.
MWR Morale, Welfare and Recreation.
NA Not applicable.
OBA Oxygen breathing apparatus.
PWD Public Works Department.
SVOC Semi-volatile organic compound.
TCLP Toxicity Characteristic Leaching Procedure.
VOC Volatile organic compound.
WIP Waste Information Profile.
Material that remains in its original labeled container will be characterized by specification.
*Frequency of analysis may be altered if the waste material does not change and if it has been previously well characterized.
If the Parameters to Be Analyzed is identified as "None," testing is not applicable, and the material is disposed of as a hazardous waste.
Method References:
1 Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, EPA SW-846, 3rd Edition, November 1986, as amended by Updates I through V (April 2014).
2 Toxicity Characteristic Leaching Procedure, 40 CFR 261 Appendix II.
3 Methods for Chemical Analysis of Water and Wastes, USEPA 600/4-79/020, Rev. March 1983.

TABLE 1-4
SAMPLING EQUIPMENT
RCRA HAZARDOUS WASTE RENEWAL PERMIT APPLICATION, PART B
NAVAL WEAPONS STATION EARLE
COLTS NECK, NEW JERSEY

Waste Type	Recommended Sampler	Limitations
Liquids, sludges, and slurries in drums, vacuum trucks, barrels, and similar containers	COLIWASA Open Tube (Thief), Stratified sample (Thief)	Not for containers over 5 feet (1.5 meters) deep
	a) Plastic	Not for wastes containing ketones, nitrobenzene, di-methylformamide, mesityl oxide, or tetrahydrofuran
	b) Glass	Not for wastes containing hydrofluoric acid and concentrated alkali solutions
	c) PTFE	None
Liquids, sludges, and slurries in drums, vacuum trucks, barrels, and similar containers	Open tube	Not for containers 5 feet (1.5 meters) deep
	a) Plastic	Not for wastes containing ketones, nitrobenzene, di-methylformamide, mesityl oxide, or tetrahydrofuran
	b) Glass	Not for wastes containing hydrofluoric acid and concentrated alkali solutions
Liquids and sludges in ponds, pits, lagoons, or treatment units	Pond	Cannot be used to collect samples beyond 11.5 feet (3.5 meters); dip and retrieve sampler slowly to avoid bending the tubular aluminum handle
Powdered or granular in bags, drums, barrels, and similar containers	a) Grain sampler	Limited application for solids sampling of moist and sticky solids with diameters over 0.25 inch (0.6 centimeter)
	b) Sampling trier	May incur difficulty in retaining core sample of very dry granular materials during sampling
Dry wastes in shallow containers and surface soil	Trowel or scoop	Not applicable to sampling deeper than 3 inches (8 centimeters); difficult to obtain reproducible mass of samples
Waste piles	Waste pile sampler	Not applicable to sampling solid wastes with dimensions greater than one-half the diameter of the sampling tube
Solid deeper than 3 inches (8 centimeters)	a) Soil auger	Does not collect undisturbed core sample
	b) Sampling trier	Difficult to use on stoney, rocky, or very wet soil
Wastes in storage tanks	a) Weighted bottle sampler	May be difficult to use on very viscous liquids
	b) Bacon Bomb	Volume restriction 1.06 quarts (1 liter) maximum
	c) Kemmerer sampler	May need extra weight

Notes:
Source: NJDEP Field Sampling Procedures Manual (August 2005), Table 5.3, Samplers Recommended for Various Types of Waste (Adapted from EPA 600/2-80-018 Samplers and Sampling Procedures for Hazardous Waste Streams, 1980).

COLIWASA composite liquid waste sampler
PFTE polytetrafluoroethylene

TABLE 1-5
ANALYTICAL SOP REQUIREMENTS
RCRA HAZARDOUS WASTE RENEWAL PERMIT APPLICATION, PART B
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Matrix	Analytical Group	Analytical and Preparation Methods	Containers	Sample Volume	Preservation Requirements(1)	Maximum Holding Time (2)
Solid Wastes	VOCs	SW-846 5035/8260B	Three 5-g Encore samplers or terracores	5 g	Sodium bisulfate in water, cool to above freezing and ≤ 6 °C; methanol, freeze to < -10 °C	48 hours from sampling to preparation, 14 days to analysis
	SVOCs	SW-846 3540/3550/8270C	One 4- oz glass jar	30 g	Cool to above freezing and ≤ 6 °C	14 days until extraction, 40 days to analysis
	Pesticides	SW-846 3540/3545/3550/ 8081A	One 4 - oz glass jar	30 g	Cool to above freezing and ≤ 6 °C	14 days until extraction, 40 days to analysis
	PCBs	SW-846 3540/3545/3550/ 8082	One 4 - oz glass jar	30 g	Cool to above freezing and ≤ 6 °C	14 days until extraction, 40 days to analysis
	Explosives	SW-846 8330B	One 8 - oz glass jar	30 g	Cool to above freezing and ≤ 6 °C	14 days until extraction, 40 days to analysis
	Metals, Including Mercury	SW-846 3050B/6010C/7471A	One 4 - oz glass jar	1 to 2 g/ 0.3 g for mercury	Cool to above freezing and ≤ 6 °C	180 days to analysis except mercury, 28 days for mercury
	Cyanide	SW-846 9012A	One 4 - oz glass jar	5 g	Cool to above freezing and ≤ 6 °C	14 days to analysis
	pH	SW-846 9045D	One 4 - oz glass jar	50 g	Cool to above freezing and ≤ 6 °C	analyze as soon as possible

TABLE 1-5
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Matrix	Analytical Group	Analytical and Preparation Methods	Containers (number, size, and type)	Sample Volume (units)	Preservation Requirements [1] (chemical, temperature, light protected)	Maximum Holding Time [2] (preparation/ analysis)
Liquid Wastes and Aqueous Field QC Samples	VOCs	SW-846 5030/8260B	Three 40-mL glass vials	5 mL	HCl to pH<2; Cool to above freezing and ≤ 6 °C; no headspace	14 days to analysis
	SVOCs	SW-846 3510C/3520/8270C	Two 1-L glass amber bottles	1,000 mL	Cool to above freezing and ≤ 6 °C	7 days until extraction, 40 days to analysis
	Pesticides	SW-846 3510C/3520/8081A	Two 1-L glass amber bottles	1,000 mL	Cool to above freezing and ≤ 6 °C	7 days until extraction, 40 days to analysis
	PCBs	SW-846 3510C/3520/8082	Two 1-L glass amber bottles	1,000 mL	Cool to above freezing and ≤ 6 °C	7 days until extraction, 40 days to analysis
	Explosives	SW846 8330B	Two 1-L glass amber bottles	1,000 mL	Cool to above freezing and ≤ 6 °C	7 days until extraction, 40 days to analysis
	Metals, Including Mercury	SW-846 3010A/6010C/7470A	One 500-mL plastic bottle	50 mL / 30 mL mercury	HNO_3 to pH <2; Cool to above freezing and ≤ 6 °C	180 days to analysis except mercury, 28 days for mercury
	Cyanide	SW-846 9012A	One 250-mL plastic bottle	50 mL	NaOH to a pH > 12; Cool to above freezing and ≤ 6 °C	14 days to analysis

TABLE 1-5
ANALYTICAL SOP REQUIREMENTS
RCRA HAZARDOUS WASTE RENEWAL PERMIT APPLICATION, PART B
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Matrix	**Analytical Group**	**Analytical and Preparation Methods**	**Containers** (number, size, and type)	**Sample Volume** (units)	**Preservation Requirements** [1] (chemical, temperature, light protected)	**Maximum Holding Time** [2] (preparation/ analysis)
Waste Character -ization	TCLP VOCs	SW-846 5035/8260B	Three 5-g Terracores into pre-preserved and weighed vials	15 g	Cool to above freezing and ≤ 6 °C; no headspace	48 hours for preparation; 14 days to analysis
	TCLP SVOCs	SW-846 1311/8270C	One 8-oz wide-mouth glass jar	250 g	Cool to above freezing and ≤ 6 °C	7 days to extraction; 40 days analysis
	TCLP Pesticides/ Herbicides	SW-846 1311/8270C				
	TCLP Pesticides/ Herbicides	SW-846 1311/8270C				
	Total PCBs	SW-846 3540/3550/8082				
	TCLP Metals (except Mercury)	SW-846 1311/6010B	One 8-oz wide-mouth glass jar	250 g	Cool to above freezing and ≤ 6 °C	180 days to analysis
	TCLP Mercury	SW-846 1311/7470A				28 days to analysis
	Ignitability	SW-846 1030	One 8-oz wide-mouth glass jar	250 g	Cool to above freezing and ≤ 6 °C	7 days to analysis for sulfide, 14 days to analysis for cyanide, and 28 days to analysis for corrosivity
	Reactivity (Cyanide/ Sulfide)	SW-846 9010C/9014/SW-846 Chapter 7.7.3.4				
	Corrosivity	SW-846 1110/9045D				

TABLE 1-5
ANALYTICAL SOP REQUIREMENTS
RCRA HAZARDOUS WASTE RENEWAL PERMIT APPLICATION, PART B
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Notes:

1 Sample size is a minimum; the containers listed will be filled to compensate for any required re-analysis or re-extractions.

2 Maximum holding time is calculated from the time the sample is collected to the time the sample is prepared/extracted.

°C degrees Celsius.
g gram.
HCL hydrochloric acid.
HNO_3 nitric acid.
L liter.
mL milliliter.
NaOH sodium hydroxide.
oz ounce
PCB polychlorinated biphenyl.
SVOC semi-volatile organic compound.
TCLP Toxicity Characteristic Leaching Procedure.
VOC volatile organic compound.

TABLE 1-6
INSPECTION SCHEDULE
RCRA HAZARDOUS WASTE RENEWAL PERMIT APPLICATION, PART B
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COLTS NECK, NEW JERSEY

FACILITY OR ITEM	POTENTIAL PROBLEM	FREQUENCY
Door lock	Broken, missing	Weekly
Warning signs	Missing, unreadable	Weekly
Container condition	Leaks, spills, corrosion odors, fumes, deformation	Weekly
Container closure	Open lids, loose bungs	Weekly
Container placement	Lack of aisle space, unstable stacking, lack of segregation by waste type	Weekly
Container marking	Label missing, unreadable, no accumulation date, incomplete	Weekly
Pallets	Cracked wood, nails protruding	Weekly
Floor	Cracks, gaps	Weekly
Curbing	Cracks, gaps	Weekly
Two-way radio	Inoperable, dead batteries, obstructed	Weekly
Standard industrial absorbents	Out of stock, obstructed	Monthly/after use
Absorbent pads	Out of stock, obstructed	Monthly/after use
Fire extinguisher	Discharged, low pressure, obstructed	Monthly/after use

2.0 SUBPART C - PREPAREDNESS AND PREVENTION

2.1 DESIGN AND OPERATION OF FACILITY

[40 CFR 264.31, 270.14(b)(8)].

The HWSF was designed and constructed to minimize the possibility of a fire, explosion, or any release of HW or HW constituents to air, soil, or surface water that could threaten human health or the environment. Descriptions of some of the features are presented below.

(a) Loading and Unloading Operations

Several precautions have been taken to reduce the potential for hazards to occur during unloading procedures in the container storage areas. A ramp has been constructed to aid the forklift in and out of the container storage areas. Pallets are used while unloading to ensure stability of the containers.

(b) Run-Off

The HWSF is an enclosed building and is protected overhead by a roof. Because precipitation is diverted from the storage area, there will be no run-off.

The loading area of the HWSF is inspected for any spillage that run-off could potentially cause to migrate.

(c) Water Supplies

Groundwater contamination is prevented by impervious concrete floors and dikes. The HWSF is constructed with a concrete base, diked walls, and a roof.

(d) Equipment and Power Failures

The facility is not dependent on electrically operated equipment to conduct its operations. The facility uses a non-electric forklift during its normal waste handling operations.

At this time, if a power failure were to occur at the facility, no operational loss or occurrence of potentially hazardous situations would occur.

(e) Secondary Containment System Design and Operation

In the HWSF, any spilled or leaked material will be contained by each waste storage area's secondary containment system until it is removed and recontainerized. The secondary containment system consists of separate containment trenches not connected to a sewer within each waste storage area. The waste storage area floors are sloped to drain liquids resulting from leaks and spills to the containment trenches. Each waste storage area features two secondary containment trenches except for the oxidizer waste storage area, which has one secondary containment trench. Trenches along the waste storage area interior walls are covered by a metal grate.

(f) Requirements for Base to Contain Liquids

The base (floor) of the HWSF is a concrete slab. The floor, walls and containment trenches feature a chemical-resistant, impervious, epoxy coating to contain leaked and spilled fluids. In the event that the coating deteriorates, it will be repaired as necessary, or removed and replaced with a polyurea elastomer material, such as SPi Performance Coatings EPL-9 Self-Leveling Polyurea Elastomer, or equivalent. Chemically-resistant water stops are installed at all joints or seams between the floor and the walls of the containment areas.

(g) Containment System Drainage

The waste storage area floors are sloped to drain liquids resulting from leaks and spills to the secondary containment trenches. Any spilled waste material will be contained within its associated waste storage area containment system until it is removed and recontainerized.

(h) Containment System Capacity

The secondary containment capacity for each waste storage area is presented in Table 2-1. The total capacity of each waste storage area's containment trench system is greater than 10 percent of the waste storage area's maximum storage capacity

(i) Control of Run-On

The HWSF is completely enclosed with walls, roof and a concrete floor, at an elevation at or above the surrounding grade, preventing precipitation and run-on into the waste storage areas and secondary containment system. In addition, the floor elevation of the HWSF is located above the 100-year floodplain.

(j) Removal of Liquids from Containment System

Each secondary containment trench has a blind sump (not connected to a sewer) to facilitate removal of accumulated fluid. Spilled or leaked waste will be pumped from the containment trench in a timely manner to prevent overflow of the collection system. Residual spilled or leaked waste material will be removed from the waste storage area floor and containment trenches with absorbents, surfactants, a non-sparking shovel, or non-sparking wet/dry shop vacuum. Wastes from single spill incidents will not be analyzed; these wastes will be labeled as containing the material spilled and the absorbent or surfactant.

2.2 REQUIRED EQUIPMENT

[40 CFR 264.32]

Internal communications with an intercom system and external communications (telephones) to summon outside assistance agencies, a fire extinguisher, fire control equipment, decontamination equipment, and water supplies are incorporated into the NWS Earle Facility Response Plan (FRP). The HWSF spill equipment inventories are included Appendix C.

2.3 TESTING AND MAINTENANCE OF EQUIPMENT

[40 CFR 264.13

Qualified personnel routinely perform field maintenance on all equipment, as well as biannual checks and quick response spot checks.

2.4 ACCESS TO COMMUNICATIONS OR ALARM SYSTEM

[40 264.34]

All personnel who handle HW have access to communication devices such as hand-held radios and cell phones.

2.5 REQUIRED AISLE SPACE

[40 CFR 264.35],

At the HWSF, pallets are stored in single-stack rows not exceeding two pallets in width (four drums). This allows a minimum 18-inch-wide aisle, which provides adequate access for waste transfers, inspection, firefighting, and safety equipment. Containers are not stacked, and strict inventory control is maintained in the HWSF.

2.6 ARRANGEMENTS WITH LOCAL AUTHORITIES

(40 264.37]

As an active military base with high security requirements, NWS Earle maintains its own Fire Department, Police Department, and Emergency Medical responders that are available at all times, and they would be the primary responders to any incident that occurs within the base. In accordance with NWS Earle Station procedures, all emergencies occurring at the Station will be reported immediately to the Station's Emergency Services dispatch center. Under normal circumstances, outside agencies, such as fire, police, and emergency responders would not be required. However, mutual aid agreements are in place with numerous state, county, and local emergency service providers to provide aid if needed, as identified in the RCRA Contingency Plan.

TABLE 2-1
BUILDING C-63 MAXIMUM WASTE AREA CAPACITIES AND CONTAINMENT VOLUMES
PART B RCRA PERMIT RENEWAL APPLICATION
NAVAL WEAPONS STATION EARLE
COLTS NECK, NEW JERSEY

Waste Storage Area	Maximum Storage Capacity (gallons)	Required Containment Capacity (gallons) [1]	Actual Containment Capacity (gallons) [2]
113 Oxidizer Waste	1,272	127	140
114 Reactive Waste	3,011	301	350
115 Caustic Waste	3,486	349	430
116 Flammable Liquid Waste	4,701	470	570
117 General Waste	5,892	589	600
118 Acidic Waste	4,692	469	540
119 Organic Waste	5,920	595	650

Notes:
1. The required containment capacity represents 10 percent of the waste storage area maximum storage capacity. The containment system must have sufficient capacity to contain 10 percent of the volume of the containers or the volume of the largest container, whichever is greater. The largest container in use at Building C-63 is a 55-gallon drum.
2. Actual containment capacity based on field measurements taken March 2016.
2. Actual containment capacity does not include sump.

3.0 SUBPART D - CONTINGENCY PLAN AND EMERGENCY PROCEDURES

[40 CFR 264 Subpart D. 270.14(b)(7)]

3.1 APPLICABILITY

[40 CFR 264.50]

The RCRA Contingency Plan specifies procedures to will be carried out immediately whenever there is a fire, explosion, or release of hazardous waste or hazardous waste constituents at the HWSF that could threaten human life or the environment.

3.2 PURPOSE AND IMPLEMENTATION OF CONTINGENCY PLAN

[40 CFR 264.51]

The provisions of this RCRA Contingency Plan will be carried out immediately whenever there is a fire, explosion, or release of HW or HW constituents at the HWSF (Building C-63) that could threaten human life or the environment. Examples of some potential emergencies that could cause the contingency plan to be implemented are:

- Explosions
- Fires
- Spills or releases of HW
- Major malfunction of process control and monitoring equipment
- Severe weather conditions

3.3 CONTENT OF CONTINGENCY PLAN

[40 CFR 264.52]

The RCRA Contingency Plan includes the five components specified in 40 CFR 264.52:

- Emergency procedures facility personnel must take in response to fires, explosions, or HW releases.
- A coordinated emergency services plan agreed to by local police departments, fire departments, hospitals, and state and local emergency response teams.
- A list of Emergency Coordinators that includes names, addresses, and telephone numbers of all persons qualified to act as Emergency Coordinators.
- A list of emergency equipment that includes the location, physical description, and capabilities of each item listed.
- An evacuation plan for the safe egress of facility personnel.

3.4 COPIES OF CONTINGENCY PLAN

[40 CFR 264.53]

Copies of the RCRA Contingency Plan and all revisions to the plan are maintained at NWS Earle in the HWSF and have been submitted to all of the local emergency responders, including hospitals, fire departments, and police departments. Applicable sections have been incorporated into this RCRA Part B Permit application; however, 24-hour contact information for Navy personnel has been redacted from the publicly available version of the plan in accordance with Secretary of the Navy Instruction SECNAVINST 5211.5E, Department of the Navy (DON) Privacy Program (28 December 2005), which limits the use and disclosure of Personally Identifiable Information (PII) in unclassified non-national security information systems.

3.5 AMENDMENT OF CONTINGENCY PLAN

[40 CFR 264.54]

The contingency plan is reviewed and amended as necessary, in the event of the following conditions:

a. The facility permit is revised;
b. The plan fails in an emergency;
c. The facility changes-in its design, construction, operation, maintenance, or other circumstances-in a way that materially increases potential for fires, explosions, or releases of hazardous waste or hazardous waste constituents, or changes the response necessary in an emergency;
d. The list of emergency coordinators changes; or
e. The list of emergency equipment changes.

3.6 EMERGENCY COORDINATOR

[40 CFR 264.55]

The Primary and/or Alternate Emergency Coordinators listed in the RCRA Contingency Plan are available at all times, either on site or on call, to immediately coordinate emergency response measures.

3.7 EMERGENCY PROCEDURES

[40 CFR 264.56]

Emergency procedures that are specific to the HWSF are identified in the RCRA Contingency Plan. The plan follows the same established spill notification and emergency response procedures that are used throughout the facility, which are more formally documented in the NWS Earle Emergency Management

Plan; the NWS Earle FRP, and/or the NWS Earle spill prevention, control and countermeasures (SPCC) Plan.

4.0 SUBPART E - MANIFEST SYSTEM, RECORDKEEPING, AND REPORTING

4.1 APPLICABILITY

[40 CFR 264.70]

NWS Earle has an on-site storage facility that does not accept HW from off-site sources.

4.2 USE OF MANIFEST SYSTEM

[40 CFR 264.71]

This section does not apply, in accordance with 40 CFR 264.70, because the HWSF does not receive HW from off-site sources.

4.3 MANIFEST DISCREPANCIES

[40 CFR 264.72]

This section does not apply, in accordance with 40 CFR 264.70, because the HWSF does not receive HW from off-site sources.

4.4 OPERATING RECORD

[40 CFR 264.73]

An operating record or inventory log is maintained for the HWSF. The date and quantity of waste put in the storage area is recorded on the log. When the waste is removed from the area, the date and manifest number (used for the disposal of the waste) are entered on the log. The logs are kept with the inspection records, where deficiencies in the storage area can be noted and addressed.

The log is used to assist in the strict inventory control of the HWSF. The log is used to keep the waste inventory at the HWSF less than permitted maximum capacity for each waste storage area at all times.

4.5 AVAILABILITY, RETENTION, AND DISPOSITION OF RECORDS

[40 CFR 264.74]

The HWPM maintains copies of all manifests, Hazardous Waste Delivery Orders, turn-in documents, SDSs, WIPs, and HW laboratory analytical results. These records will be retained for at least 3 years from the date the waste was received at the disposal facility and must be furnished upon request to the EPA and its designees.

4.6 BIENNIAL REPORT

[40 CFR 264.75]

NJDEP requires a Biennial Hazardous Waste Report to be filed with the Director by March 1 of even-numbered years. The report is completed using the EPA RCRA Subtitle C Identification Form (EPA Form 8700-12) and Waste Generation and Management forms (EPA Form 8700-13 A/B) and covers the previous year's HW activities including monitoring data and minimization efforts.

4.7 UNMANIFESTED WASTE REPORT

[40 CFR 264.76]

This section does not apply, in accordance with per 40 CFR 264.70, because the HWSF does not receive HW from off-site sources.

5.0 SUBPART F - RELEASES FROM SOLID WASTE MANAGEMENT UNITS

5.1 APPLICABILITY

[40 CFR 264.90

NWS Earle does not have Solid Waste Management Units; therefore, Subpart F is not applicable.

6.0 SUBPART G - CLOSURE AND POST CLOSURE

6.1 APPLICIABILITY

[40 CFR 264.110, 270.14(b)(13)]

This closure plan identifies the steps necessary for complete and/or partial closure of the facility's HW operations during and at the end of its intended operating life. If, at any time, a change in the operations takes place, the closure plan will be amended. There are no HW management units subject to the requirements of 40 CFR 264.117 through 264.120 at NWS Earle, therefore, a post-closure plan is not required for the HW operations.

6.2 CLOSURE PERFORMANCE STANDARD

[40 CFR 264.111, 270.14(b)(13)]

This plan describes how the HWSF will be closed in a timely manner that minimizes the need for further maintenance and controls, eliminates threats to human health and the surrounding environment, and avoids any post-closure escape of the HW and its constituents, leachate, contaminated rainfall, or waste decomposition products to the ground or surface waters or to the atmosphere.

After the action to effect closure is initiated by Navy Command, devices will be installed that will physically secure the HWSF. The devices will include but will not be limited to chains, locks, and signs.

6.3 CLOSURE PLAN; AMENDMENT OF PLAN

[40 CFR 264.112, 270.14(b)(13)]

Closure of HWSF

The maximum volume of wastes to be stored in the HWSF is 28,970 gallons or approximately 526 55-gallon drums. When this facility is closed, all waste will be shipped off site.

All empty reusable containers will be sent to a recycler or to another Navy facility for future use. The HWSF will be decontaminated with a surfactant and high-pressure spray wash, and the wash liquids will be collected and pumped into a tank truck. The materials will not enter the storm or sanitary sewer systems. The final washwater will be analyzed for all hazardous constituents of concern. If concentrations in the final washwaters are less than or equal to concentrations of the same constituents in the washwater blank, the

storage area will be considered decontaminated. If concentrations in the washwater are greater than concentrations of the constituents in the washwater blank, cleaning will continue. Decontamination work will cease when either the concentrations in the washwater are less than or equal to concentrations in the washwater blank or if further cleaning attempts show no appreciable change in the results.

All personnel handling the wastes and participating in decontaminating the HWSF will wear appropriate protective clothing to prevent exposure to any of the wastes.

Final closure of the HWSF is not anticipated at least for the next 100 years. Any amendments to the closure procedures will be submitted in writing for approval.

6.4 CLOSURE; TIME ALLOWED FOR CLOSURE

[40 CFR 264.113, 270.14(b)(13)]

Schedule for Closure

The HW storage operations at the HWSF will be discontinued when support and service operations are ended. At present, there are no foreseeable plans for ending the operations currently taking place, and no estimate can be made as to the expected year of closure except that it is anticipated that the HWSF will continue to operate for at least another 100 years. After operations are completed or the need for any HW storage activity is not expected to continue, closure procedures for the HWSF will begin. Within 90 days of receipt of the final HW volume, all HWs will be removed from the HWSF. All closure activities will be completed within 180 days of the receipt of the final waste volume.

Extensions for Closure Time

If an extension of time is needed to complete closure, NWS Earle will provide a written request to NJDEP justifying why additional time is needed. If deemed appropriate, NJDEP will provide a written approval.

6.5 DISPOSAL OR DECONTAMINATION OF EQUIPMENT, STRUCTURES, AND SOILS

[40 CFR 264.114, 270.14(b)(13)]

Within 90 days of final waste receipt, all HW will be removed from the HWSF. All decontamination activities will be completed within 6 months following the receipt of the final waste. The wastes resulting from the decontamination operations will be properly containerized and transported to a licensed HW disposal facility.

6.6 CERTIFICATION OF CLOSURE

[40 CFR 264.115, 270.14(b)(13)]

Within 60 days of closure completion for each hazardous waste unit, NWS Earle will submit by registered mail, a certification that the unit has been closed in accordance with the approved closure plan. The certification will be signed by the Public Works Officer and a qualified independent Registered Professional Engineer. Documentation supporting the Registered Professional Engineer's certification will be furnished upon request.

6.7 SURVEY PLAT

[40 CFR 264.116, 270.14(b)(13)]

This section does not apply to the NWS Earle as there are no landfill cells associated with the HWSF.

6.8 POST-CLOSURE CARE AND USE OF PROPERTY

[40 CFR 264.117, 270.14(b)(13)]

There are no HW management units subject to the requirements of 40 CFR 264.117 through 264.120 at NWS Earle.

6.9 POST-CLOSURE PLAN; AMENDMENT OF PLAN

[40 CFR 264.118, 270.14(b)(13)]

There are no HW management units subject to the requirements of 40 CFR 264.117 through 264.120 at NWS Earle.

6.10 POST-CLOSURE PLAN; AMENDMENT OF PLAN

[40 CFR 264.119, 270.14(b)(13)]

There are no HW management units subject to the requirements of 40 CFR 264.117 through 264.120 at NWS Earle.

6.11 CERTIFICATION OF COMPLETION OF POST-CLOSURE CARE

[40 CFR 264.115, 270.14(b)(13)]

There are no HW management units subject to the requirements of 40 CFR 264.117 through 264.120 at NWS Earle.

7.0 SUBPART H - FINANCIAL REQUIREMENTS

7.1 APPLICABILITY

[40 CFR 264.140, 270.14(b)(16)]

As a federal government entity, NWS Earle is exempt from all of the requirements of this subpart, in accordance with 260.140(c).

8.0 SUBPART I - USE AND MANAGEMENT OF CONTAINERS

8.1 CONDITION OF CONTAINERS

[40 CFR 264.171, 270.15]

49 CFR 173.7 describes packaging requirements for the DOD; containers must be of equal or greater strength and efficiency than DOT requirements. All containers will be new or reconditioned in accordance with DOT requirements; or they will be reused once in accordance the requirements listed below.

Reuse of containers for storage of HW is allowed only under the following conditions:

- Each container must be thoroughly inspected for leaks, damage, corrosion, etc.; only containers in good condition may be reused.
- Containers may only be reused to hold their original contents, which may be used, spent, soiled, or contaminated. For example, a mineral spirits drum may only be used to recontainerize spent mineral spirits.

8.2 COMPATIBILITY OF WASTE WITH CONTAINERS

[40 CFR 264.172, 270.15]

NWS Earle utilizes only DOT-approved containers for shipment of HW. Containers are made of or lined with materials that will not react with, and are otherwise compatible with, the HW to be stored.

With the exceptions of strong alkaline solutions (i.e., potassium or sodium hydroxide), and strong acids (i.e., sulfuric, nitric, muriatic, phosphoric, or hydrofluoric acid), the wastes handled are non-corrosive and non-reactive, and are normally stored in DOT 17E and 17H steel drums. These materials are not strongly acidic or basic and are compatible with carbon steel. "Steel is little affected by neutral water or organic chemicals." (Perry, R.H. and C.H. Chilton, Chemical Engineering Handbook, 5th Edition, p.23-64). Strong alkaline solutions and strong acids will normally be stored in DOT 17E or 17H drums with chemically resistant linings (e.g. polyethylene), or in DOT approved polyethylene drums. According to Perry, polyethylene has complete resistance to potassium hydroxide (p. 23-29), and excellent resistance to sulfuric acid (p. 23-61).

8.3 MANAGEMENT OF CONTAINERS

[40 CFR 264.173, 270.15]

Containers with free liquids are stored in the HWSF. The building layout is provided on Figure 1-5; see Figure 1-4 for the location of the HWSF within NWS Earle. Table 2-1 provides the storage capacity and the required containment volume for the HWSF.

Containers holding HW are always closed during storage. All items are clearly identified prior to placement in storage. Containers are not opened, handled, or stored in a manner that could cause them to leak or rupture. Containers stored on pallets are moved by a non-sparking forklift.

Any container that develops a leak or has deteriorated will be overpacked immediately into a salvage drum of appropriate size and construction, or the contents will be transferred to another container appropriate for that waste.

The maximum quantity of waste stored in the HWSF is 28,940 gallons or approximately 526 55-gallon drums.

CONTAINERS WITHOUT FREE LIQUID

Description of Containers

Containers without free liquids are stored within the HWSF. These wastes are generally limited to non-liquid paint residues and abrasive grit from paint stripping. These wastes are considered hazardous due only to metals content and are not corrosive or reactive. Therefore, they are normally stored in DOT specification 17E or 17H 55-gallon steel drums.

8.4 INSPECTIONS

[40 CFR 264.174, 270.15]

Inspection of the HW container storage facilities is conducted according to the inspection schedules provided in Table 1-6. Results of each inspection are recorded on the WIR (Appendix A). Information on the WIR includes the inspector's name and the time and date of the inspection. The inspector is required to check the status of each item on the WIR and indicate its condition as either acceptable or deficient. If the status of a particular item is deficient, appropriate and complete information must be recorded, including the time, date, and nature of the remedial actions taken.

8.5 CONTAINMENT

[40 CFR 264.175, 270.15(a)]

The secondary containment system at the HWSF has been designed to provide a minimum volumetric storage of 10 percent of maximum containment for each type of waste to be stored in the facility. Containment capacities are presented in Table 2-1 and required containment capacity are included in the table.

Because they are placed on pallets, none of the containers within the storage area are permitted to come into contact with any spilled material that might accumulate within the containment bay. Any spilled material is contained within the individual storage containment compartments constructed within each storage area in the facility until it is manually removed.

The HWSF is an enclosed building at or above grade and no run-on has occurred.

Removal of Liquids from Containment System

Spilled or leaked wastes will be removed from the containment area with appropriate absorbents and/or cleanup tools. Wastes from single spill incidents will not be analyzed; these wastes will be labeled as containing the material spilled. Unknown spills will be analyzed as indicated in Section 6.0, Subpart G.

8.6 SPECIAL REQUIREMENTS FOR IGNITABLE OR REACTIVE WASTE

[40 CFR 264.176, 270.14(9)]

All ignitable and reactive wastes storage facilities are located at least 50 feet from the facility's property line.

8.7 SPECIAL REQUIREMENTS FOR INCOMPATIBLE WASTE

[40 CFR 264.177, 270.15]

All special requirements of incompatible wastes are discussed in Section 1.9.

8.8 CLOSURE

[40 CFR 264.178, 270.14(b)(14)]

At closure all hazardous waste and hazardous waste residues will be removed from the containment system. Remaining containment liners, bases and containing or contaminated with hazardous waste or

hazardous waste residues will be decontaminated at removal Detailed closure requirements are covered in Section 6.0, Subpart G, of this permit application.

8.9 AIR EMISSION STANDARDS

[40 CFR 264.179, 270.15]

Refer to Sections 18.0 through 20.0, Subparts AA, BB, and CC, of this permit application for information about air emission standards.

9.0 SUBPART J - TANK SYSTEMS

9.1 APPLICABILITY

[40 CFR 264.190]

Subpart J does not apply because NWS Earle does not operate tank systems for the storage or treatment of hazardous wastes.

10.0 SUBPART K - SURFACE IMPOUNDMENTS

10.1 APPLICABILITY

[40 CFR 264.220]

Subpart K does not apply because NWS Earle does not have hazardous waste surface impoundments.

11.0 SUBPART L - WASTE PILES

11.1 APPLICABILITY

[40 CFR 264.250]

Subpart L does not apply because NWS Earle does not have waste piles.

12.0 SUBPART M - LAND TREATMENT

12.1 APPLICABILITY

[40 CFR 264.270]

Subpart M does not apply because NWS Earle does not use land treatment units.

13.0 SUBPART N - LANDFILLS

13.1 APPLICABILITY

[40 CFR 264.300]

Subpart N does not apply because NWS Earle does not dispose of hazardous waste in on-site landfills. All station landfills are closed and currently managed under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA).

14.0 SUBPART O - INCINERATORS

14.1 APPLICABILITY

[40 CFR 264.340]

Subpart O does not apply because NWS Earle does not have an incinerator.

15.0 SUBPART S - SPECIAL PROVISIONS FOR CLEANUP

15.1 APPLICABILITY

[40 CFR 264.550]

Subpart S does not apply because NWS Earle does not have any Corrective Action Management Units (CAMUs) subject to Special Provisions for Cleanup in accordance with 40 CFR 264.550.

16.0 SUBPART W - DRIP PADS

16.1 APPLICABILITY

[40 CFR 264.570]

Subpart W does not apply because NWS Earle does not have drip pads.

17.0 SUBPART X - MISCELLANEOUS UNITS

17.1 APPLICABILITY

[40 CFR 264.600]

NWS Earle had treated HW munitions and explosives by open burning/open detonation (OB/OD) since 1974. In 1980, the OB/OD Unit located at the EOD Range (Figure 1-6) became subject to RCRA regulations and was operated as an interim status unit.

At the time of the 2006 RCRA Permit renewal, NWS Earle was preparing a separate Subpart X application to address the OB/OD Unit activities. Because use of the OB/OD Unit for treatment of hazardous waste was very infrequent, NWS Earle requested withdrawal of the RCRA Subpart X permit application on April 15, 2011. On September 7, 2011, NJDEP approved NWS Earle's Delay-of-Closure and Contingent Post-Closure Plan for the OB/OD Unit, which allows limited activities. A copy of the Closure Plan Approval is provided in Appendix D.

The OB/OD Unit remains in operation under delay of closure and continues to be used for RCRA exempt activities including training and emergency response. Currently, groundwater monitoring is being conducted to meet permit requirements.

The Delay-of-Closure and Contingent Post-Closure Plan authorizes NWS Earle to continue to operate the EOD Range OB/OD Unit in the course of conducting treatment or containment activities during an immediate response; explosives or munitions emergency response; training military personnel or explosives and munitions emergency response specialists (including training in the proper destruction of unused propellant and other munitions); research, development, testing, and evaluation of military munitions, weapons, or weapon systems recovery; collection and on-range destruction of exploded ordnance and munitions fragments during range clearance activities at active or inactive ranges; or the repair, reuse, recycling, reclamation, disassembly, reconfiguration, or otherwise subject to materials recovery activities of unused munitions or components thereof. Ordnance items handled under emergency response are stored under conditional exemption in munitions magazines (K-001, K-002, K-003) prior to shipment off site or emergency disposal at the range.

18.0 SUBPART AA - AIR EMISSION STANDARDS FOR PROCESS VENTS

18.1 APPLICABILITY

[40 CFR 264.1030]

Subpart AA does not apply because NWS Earle does not operate any hazardous waste facilities with process vents.

19.0 SUBPART BB - EQUIPMENT LEAKS

19.1 APPLICABILITY

[40 CFR 264.1050]

Subpart BB does not apply because NWS Earle does not operate equipment that is subject to the Air Emissions Standards of Subpart BB.

20.0 SUBPART CC - AIR EMISSION STANDARDS FOR TANKS, SURFACE IMPOUNDMENTS, AND CONTAINERS

20.1 APPLICABILITY

[40 CFR 264.1080]

This section is applicable to NWS Earle. Specifically, the regulations apply to all containers with wastes have VOCs concentrations greater than 500 parts per million (ppm) based on the HW composition at the point of waste origination.

20.2 STANDARDS: TANKS

[40 CFR 264.1084]

There are no HW tanks at NWS Earle, so the tank standards of Subpart CC do not apply.

20.3 STANDARDS: SURFACE IMPOUNDMENTS

[40 CFR 264.1085]

There are no surface impoundments at NWS Earle, so the surface impoundment standards of Subpart CC do not apply.

20.4 STANDARDS: CONTAINERS

[40 CFR 264.1086]

NWS Earle stores all of their HW in DOT-approved containers ranging in size from 5 to 85 gallons. Therefore, some container storage activities at NWS Earle are subject to the standards of Subpart CC.

Containers used at NWS Earle with design capacities greater than 26 gallons (0.10 cubic meter) and less than or equal to 121 gallons (0.46 cubic meter) are considered Container Level 1 controls. As such, these containers fall under the regulations specified in 40 CFR 264 Subpart CC.

20.5 STANDARDS: CLOSED-VENT SYSTEMS AND CONTROL DEVICES

[40 CFR 264.1087]

There are no closed-vent systems at NWS Earle, so this section of Subpart CC does not apply.

20.6 INSPECTION AND MONITORING REQUIREMENTS

[40 CFR 264.1088]

Because NWS Earle uses only DOT-certified containers, Subpart CC air emissions standards are met, and no further air emissions measurements are required. In addition, there are no inspection requirements for DOT-certified containers.

20.7 RECORDKEEPING REQUIREMENTS

[40 CFR 264.1089]

Since NWS Earle uses only DOT certified containers, Subpart CC air emissions standards are met and no further air emissions measurements are required. In addition, there are no inspection requirements for DOT certified containers.

20.8 REPORTING REQUIREMENTS

[40 CFR 264.1090]

Because recordkeeping requirements under 40 CFR 264.1089 are not applicable, the reporting requirements under 40 CFR 264.1090 are also not applicable.

21.0 SUBPART DD - CONTAINMENT BUILDINGS

21.1 APPLICABILITY

[40 CFR 264.1100]

Subpart DD does not apply because NWS Earle does not have containment buildings.

22.0 SUBPART EE - HAZARDOUS WASTE MUNITIONS AND EXPLOSIVE STORAGE

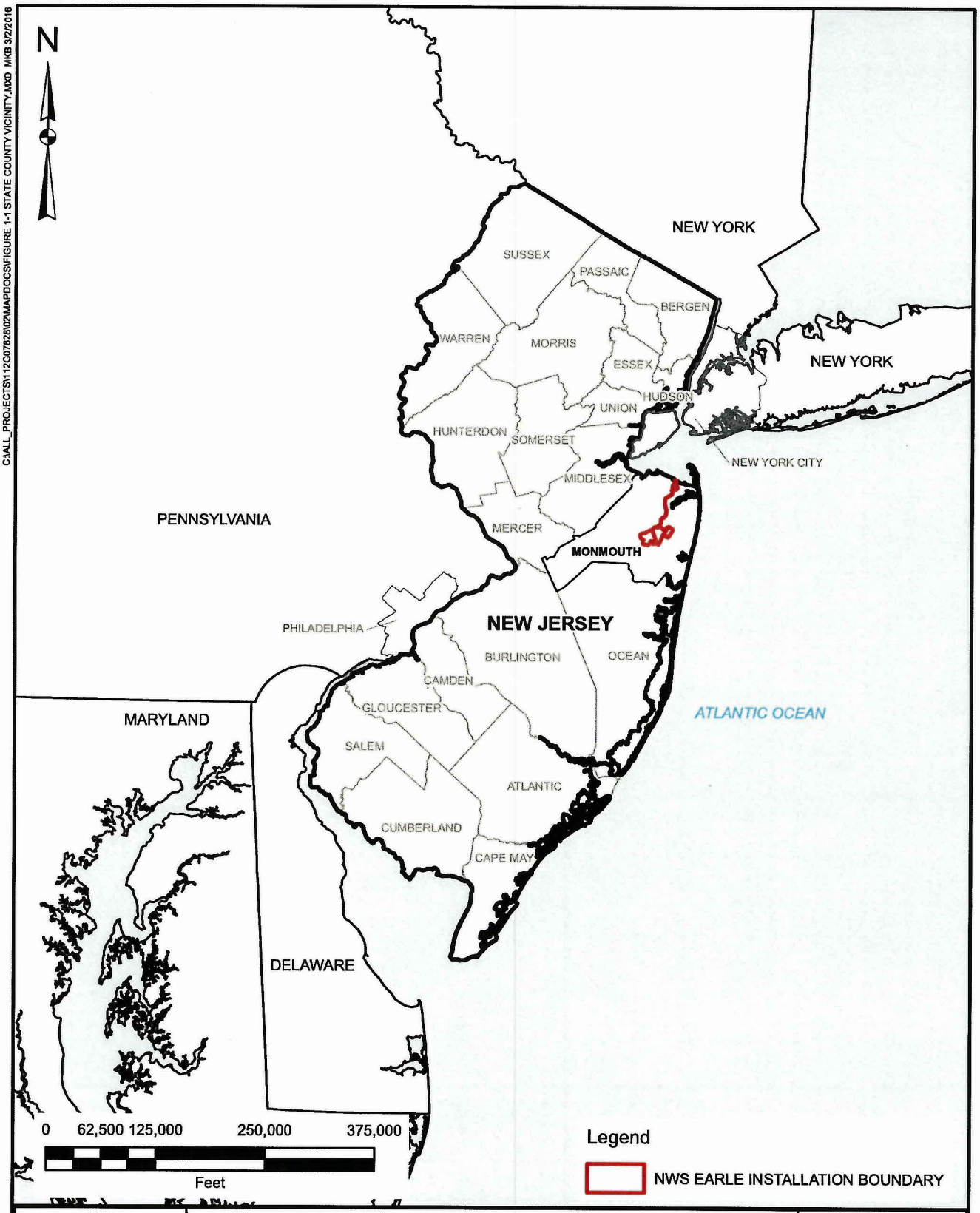
22.1 APPLICABILITY

[40 CFR 264.1200]

The sections of Subpart EE are addressed in the NWS Earle Delay-of-Closure Plan under Section 17.0, Subpart X.

FIGURES

C:\ALL_PROJECTS\112G07828\02\MAPDOCS\FIGURE 1-1 STATE COUNTY VICINITY.MXD MKB 3/2/2016

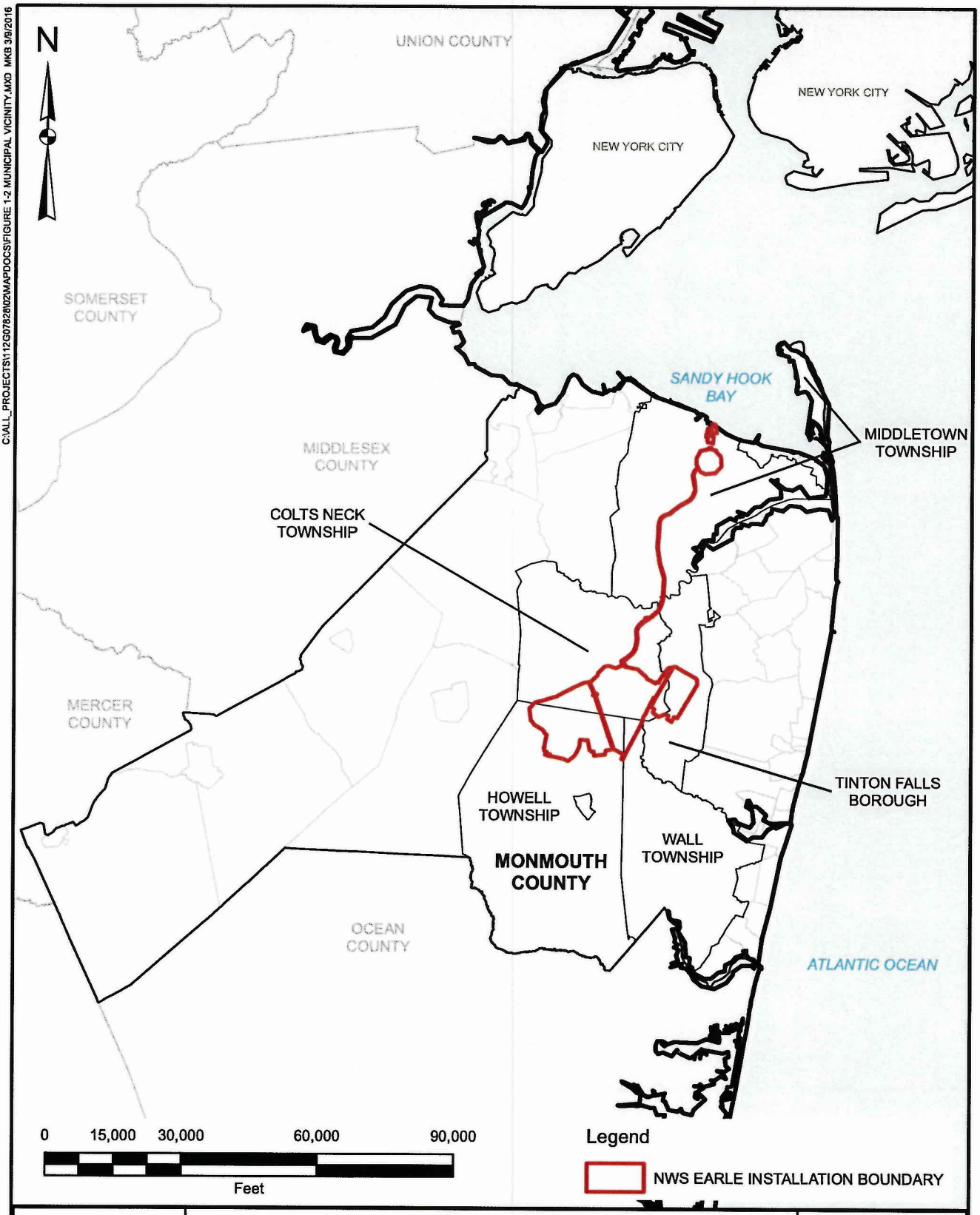


TETRA TECH

INSTALLATION STATE AND COUNTY VICINITY MAP
RCRA HAZARDOUS WASTE RENEWAL PERMIT APPLICATION
NAVAL WEAPONS STATION EARLE
COLTS NECK, NEW JERSEY

SCALE	PER SCALE BAR
FILE	FIGURE 1-2 COUNTY VICINITY.mxd
REV	0
DATE	03/02/16
FIGURE NUMBER	FIGURE 1-1

C:\ALL_PROJECTS\112G07828\02\MAPDOCS\FIGURE 1-2 MUNICIPAL VICINITY.MXD MKB 3/9/2016

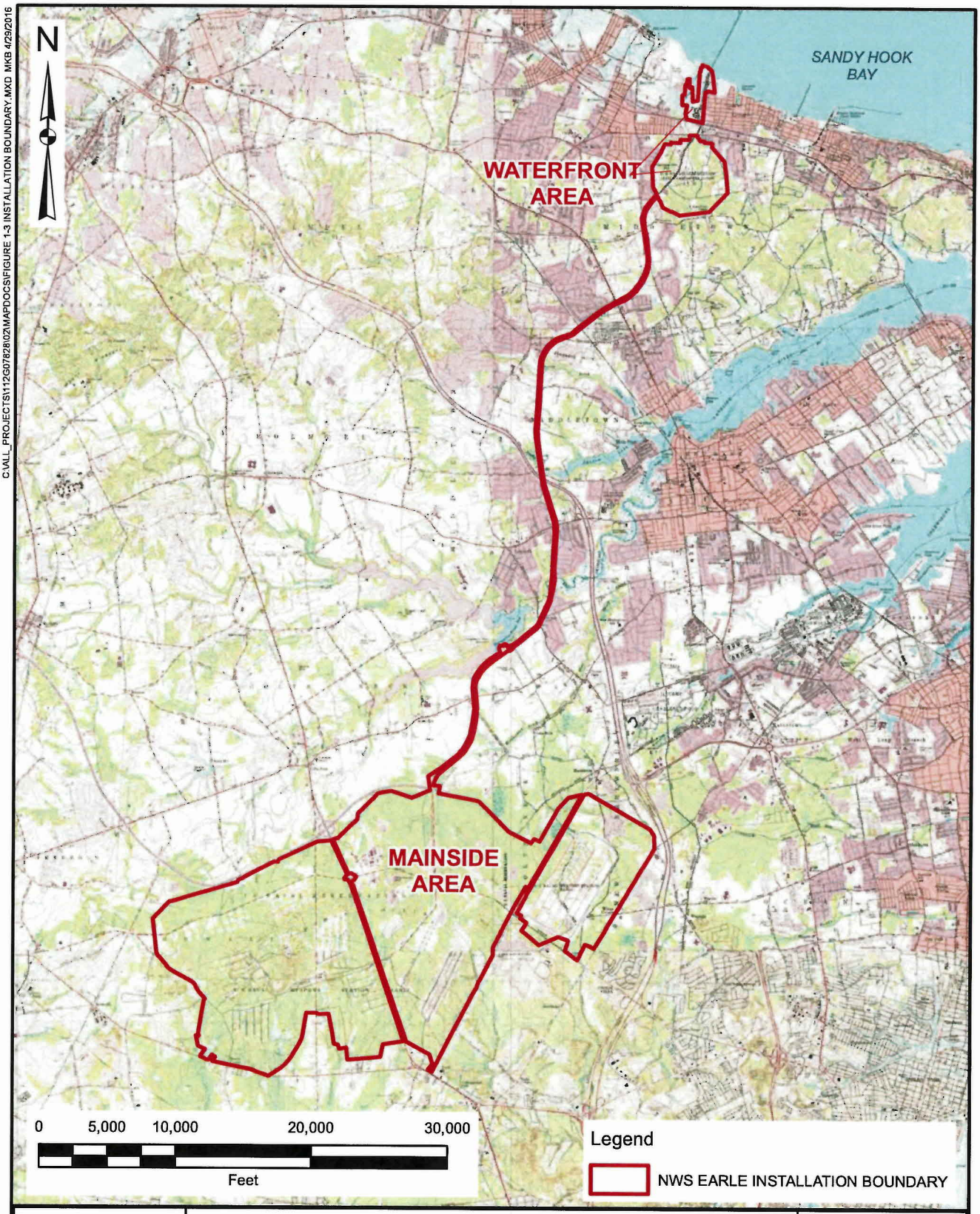


TETRA TECH

INSTALLATION MUNICIPAL VICINITY MAP
RCRA HAZARDOUS WASTE RENEWAL PERMIT APPLICATION
NAVAL WEAPONS STATION EARLE
COLTS NECK, NEW JERSEY

SCALE	PER SCALE BAR
FILE	FIGURE 1-2 MUNICIPAL VICINITY.mxd
REV	0
DATE	03/09/16
FIGURE NUMBER	FIGURE 1-2

C:\ALL_PROJECTS\112G07828\02\MAPDOCS\FIGURE 1-3 INSTALLATION BOUNDARY.MXD MKB 4/29/2016

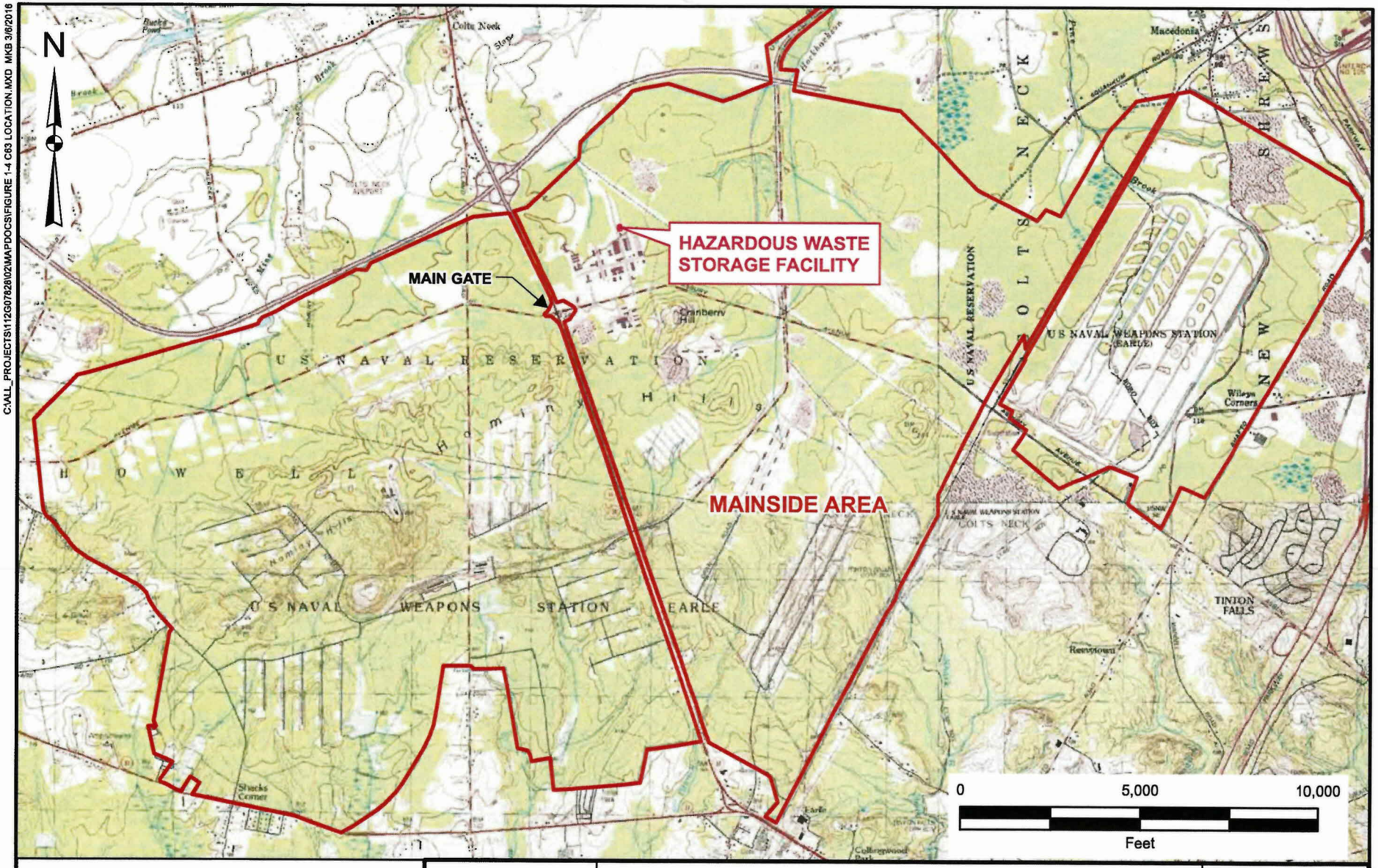


TETRA TECH

INSTALLATION BOUNDARIES
RCRA HAZARDOUS WASTE RENEWAL PERMIT APPLICATION
NAVAL WEAPONS STATION EARLE
COLTS NECK, NEW JERSEY

SCALE	PER SCALE BAR
FILE	FIGURE 1-3 INSTALLATION BOUNDARY.mxd
REV	0
DATE	04/29/16
FIGURE NUMBER	FIGURE 1-3

C:\ALL_PROJECTS\112G07828\02\MAPDOCS\FIGURE 1-4 C63 LOCATION.MXD MKB 3/6/2016



Legend

NWS EARLE INSTALLATION BOUNDARY

TETRA TECH

HAZARDOUS WASTE STORAGE FACILITY
(BUILDING C-63) LOCATION MAP
RCRA HAZARDOUS WASTE RENEWAL PERMIT APPLICATION
NAVAL WEAPONS STATION EARLE
COLTS NECK, NEW JERSEY

SCALE	
PER SCALE BAR	
FILE FIGURE 1-5 C63 LOCATION.mxd	
REV	DATE
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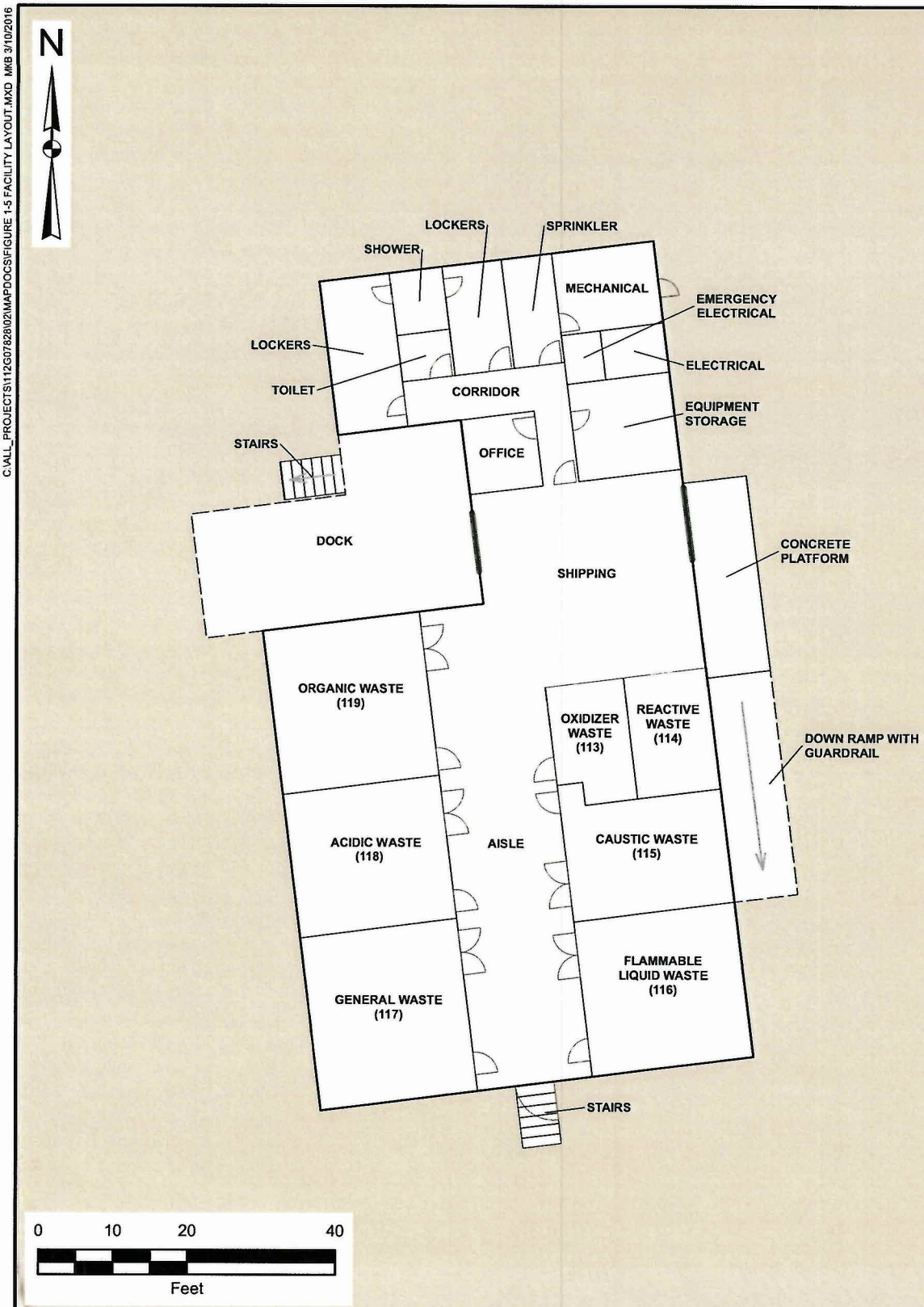
FIGURE NUMBER	
FIGURE 1-4	

C:\ALL_PROJECTS\112G07828\02\MAPDOCS\FIGURE 1-5 FACILITY LAYOUT.MXD MKB 3/10/2016

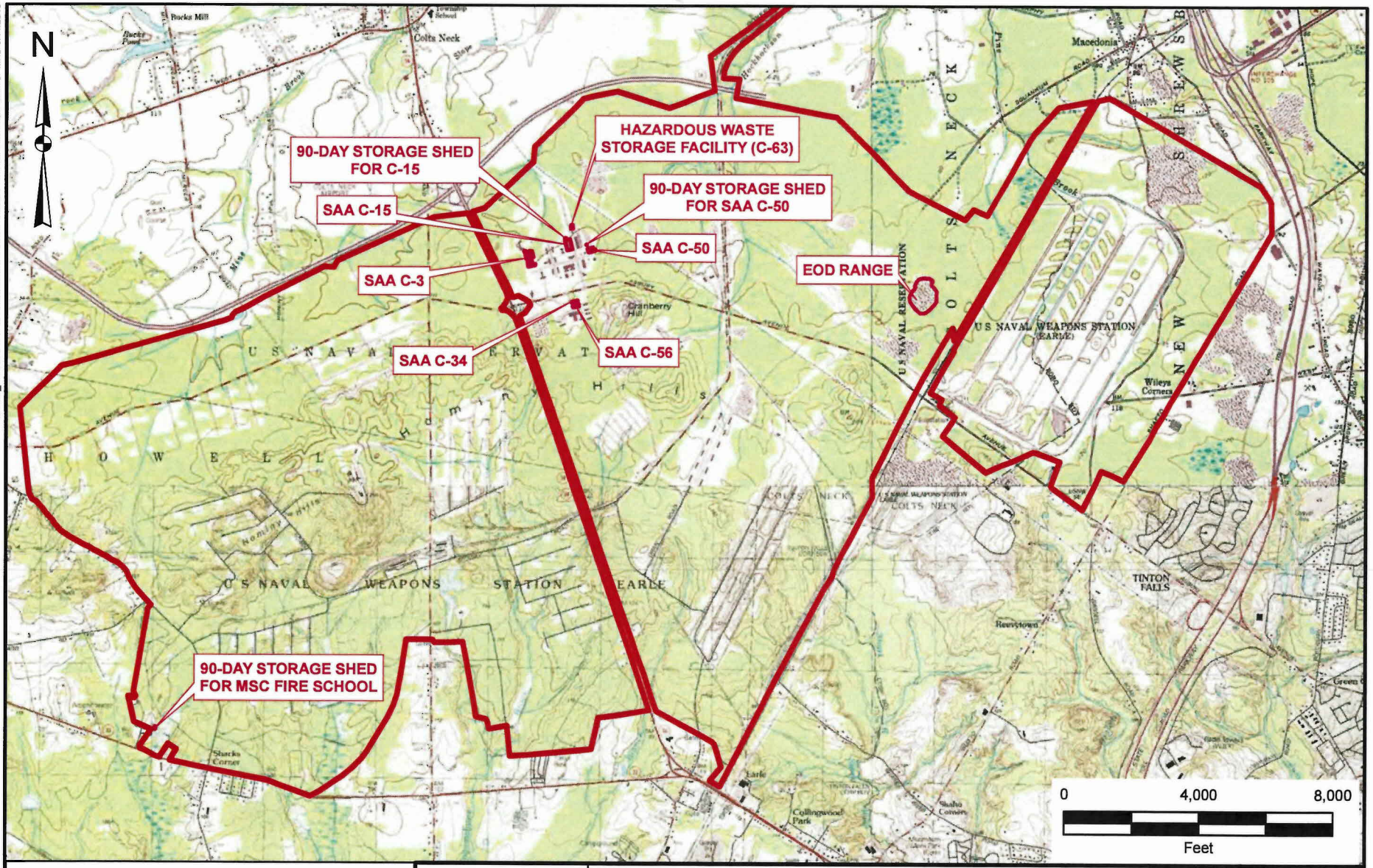


TETRA TECH

HAZARDOUS WASTE STORAGE FACILITY
(BUILDING C-63) LAYOUT
RCRA HAZARDOUS WASTE RENEWAL PERMIT APPLICATION
NAVAL WEAPONS STATION EARLE
COLTS NECK, NEW JERSEY

SCALE	PER SCALE BAR
FILE	FIGURE 1-6 FACILITY LAYOUT.mxd
REV	0
DATE	03/10/16
FIGURE NUMBER	FIGURE 1-5

C:\ALL_PROJECTS\112G07828\02\MAPDOCS\FIGURE 1-6 SAA MAINSIDE.MXD MKB 3/14/2016



LEGEND

NWS EARLE INSTALLATION BOUNDARY

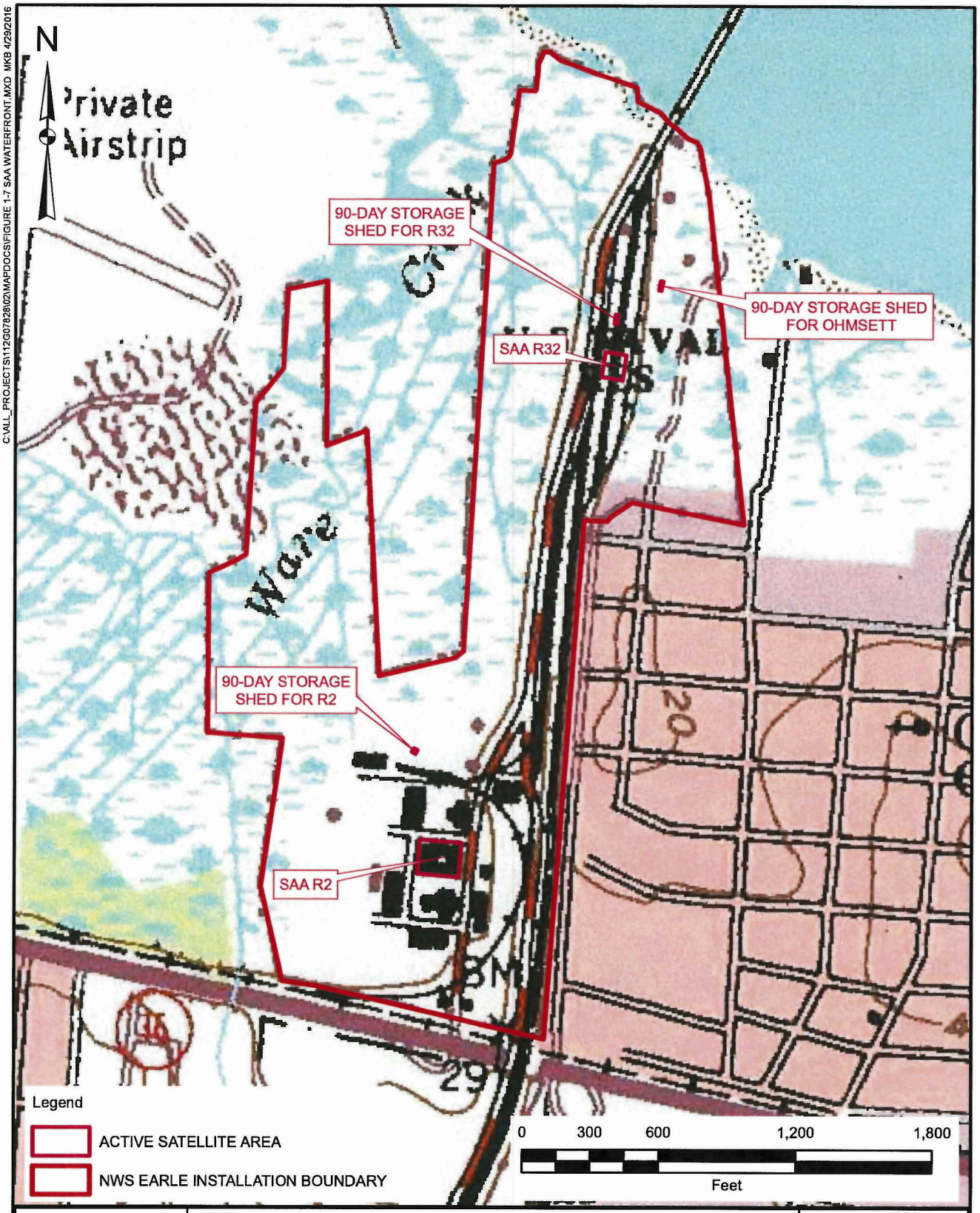
ACTIVE SATELLITE AREA

TETRA TECH

MAINSIDE AREA SATELLITE ACCUMULATION AREAS AND 90-DAY STORAGE SHEDS
RCRA HAZARDOUS WASTE RENEWAL PERMIT APPLICATION
NAVAL WEAPONS STATION EARLE
COLTS NECK, NEW JERSEY

SCALE	PER SCALE BAR
FILE	FIGURE 1-6 SAA MAINSIDE.mxd
REV	0
DATE	03/14/16
FIGURE NUMBER	FIGURE 1-6

C:\ALL_PROJECTS\112G07828\02\MAPDOCS\FIGURE 1-7 SAA WATERFRONT.MXD MKB 4/29/2016

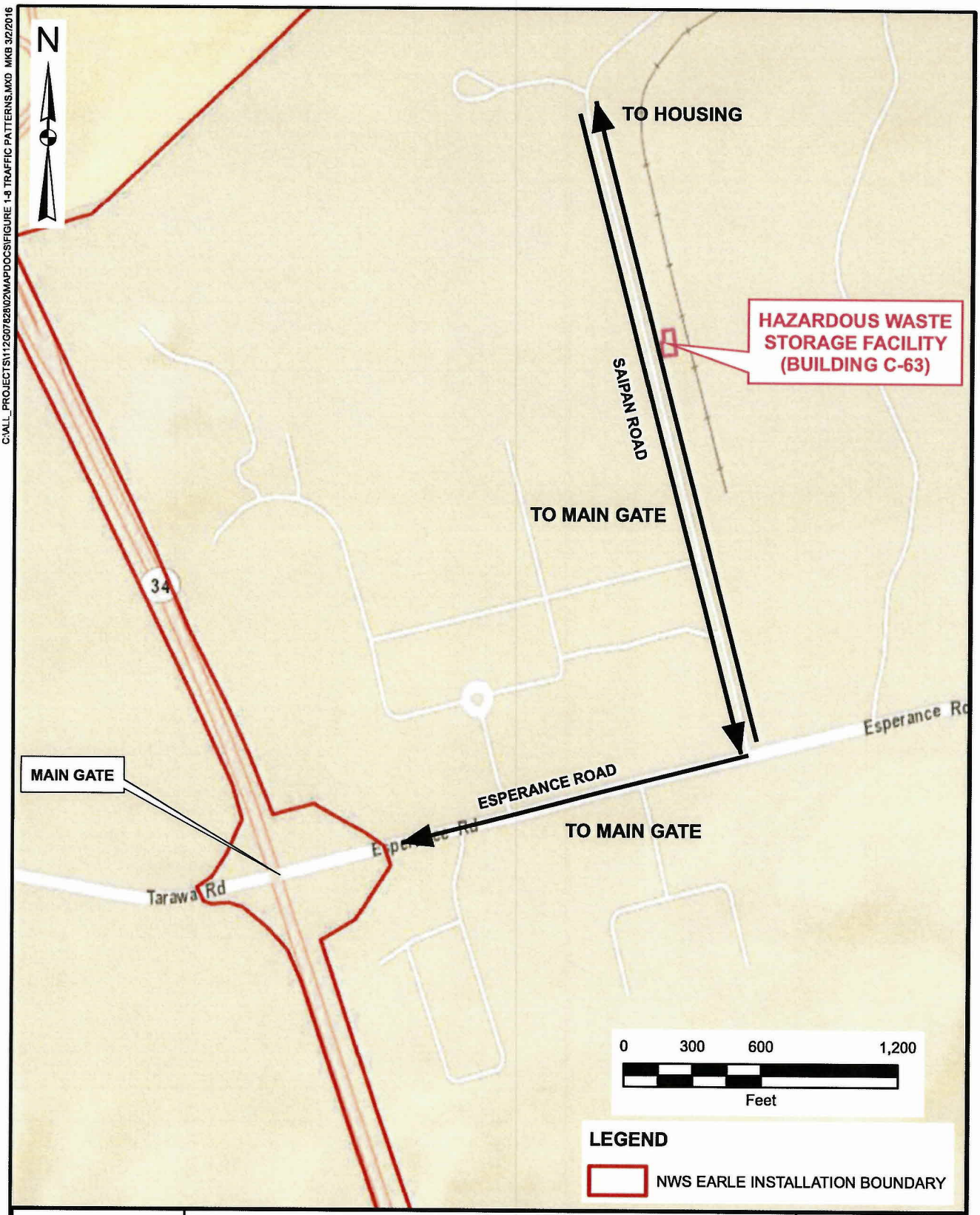


TETRA TECH

WATERFRONT AREA SATELLITE ACCUMULATION AREAS AND 90-DAY STORAGE SHEDS
RCRA HAZARDOUS WASTE RENEWAL PERMIT APPLICATION
NAVAL WEAPONS STATION EARLE
COLTS NECK, NEW JERSEY

SCALE	PER SCALE BAR
FILE	FIGURE 1-7 SAA WATERFRONT.mxd
REV	0
DATE	04/29/16
FIGURE NUMBER	FIGURE 1-7

C:\ALL_PROJECTS\112G0782802\MAPDOCS\FIGURE 1-8 TRAFFIC PATTERNS.MXD MKB 3/2/2016

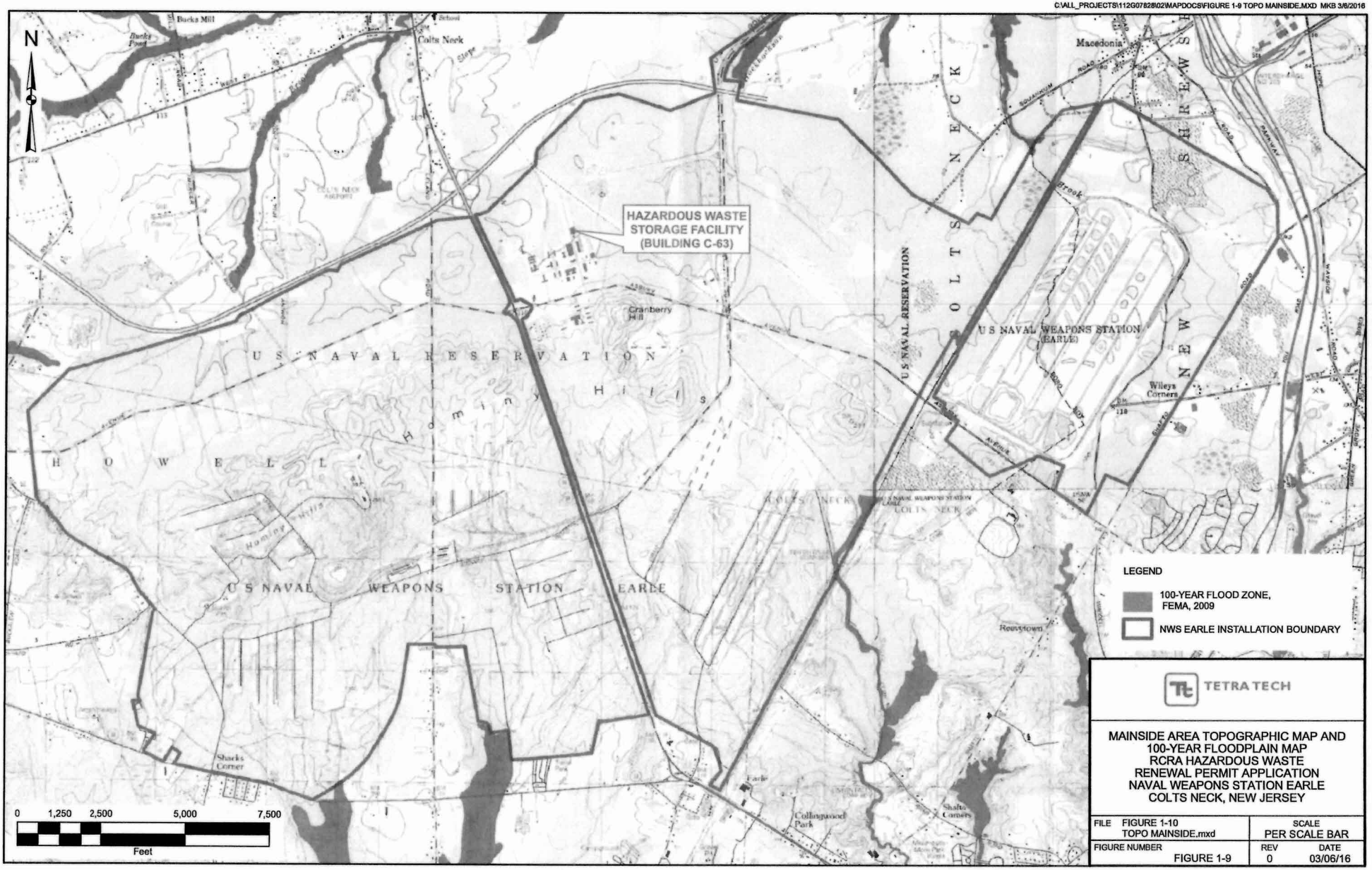


TETRA TECH

TRAFFIC PATTERNS
RCRA HAZARDOUS WASTE RENEWAL PERMIT APPLICATION
NAVAL WEAPONS STATION EARLE
COLTS NECK, NEW JERSEY

SCALE	PER SCALE BAR
FILE	FIGURE 1-7 TRAFFIC PATTERNS.mxd
REV	0
DATE	03/02/16
FIGURE NUMBER	FIGURE 1-8

C:\ALL_PROJECTS\112G07828\02\MAPDOCS\FIGURE 1-9 TOPO MAINSIDE.MXD MKB 3/6/2016

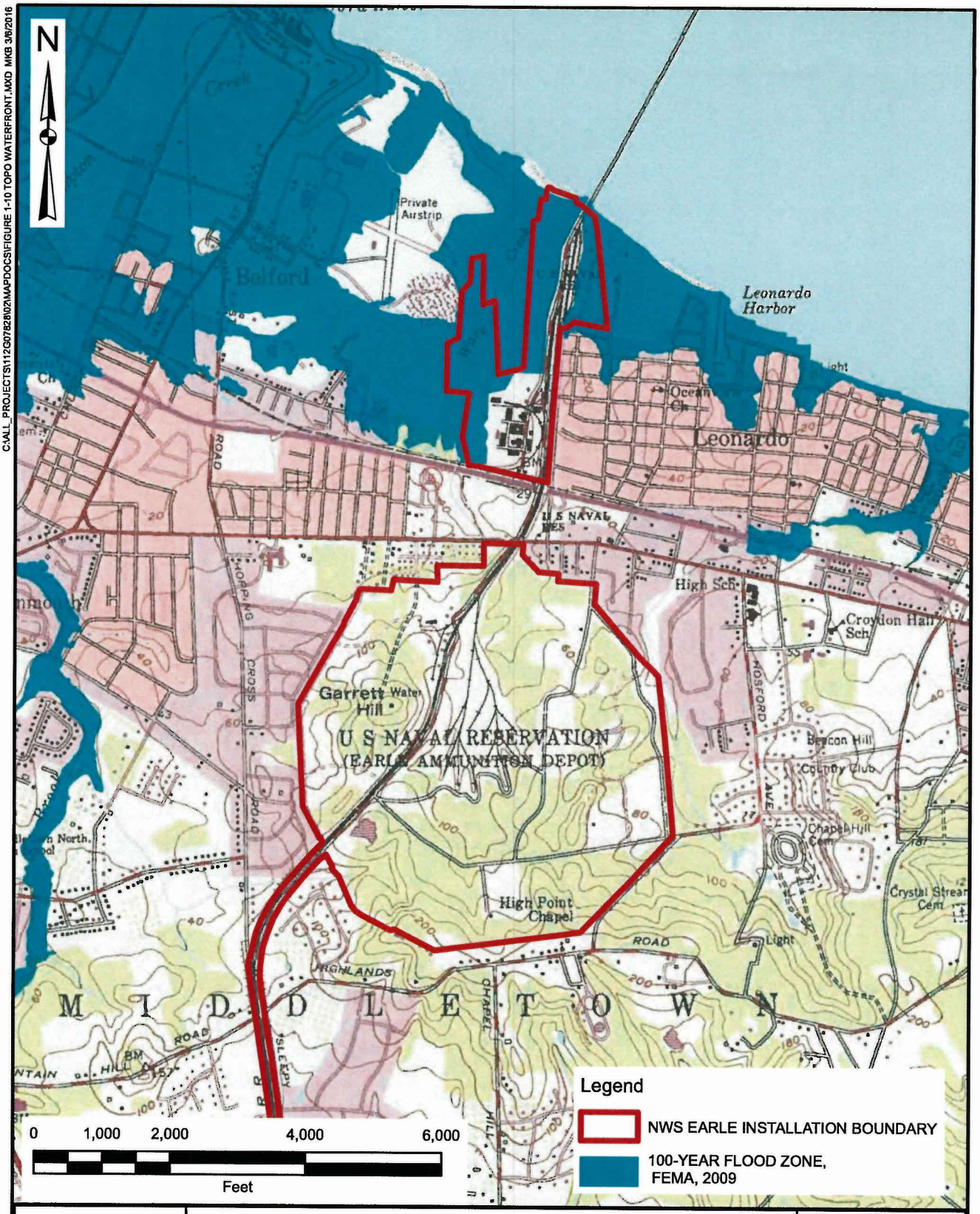


TETRA TECH

MAINSIDE AREA TOPOGRAPHIC MAP AND
100-YEAR FLOODPLAIN MAP
RCRA HAZARDOUS WASTE
RENEWAL PERMIT APPLICATION
NAVAL WEAPONS STATION EARLE
COLTS NECK, NEW JERSEY

FILE FIGURE 1-10 TOPO MAINSIDE.mxd	SCALE PER SCALE BAR
FIGURE NUMBER FIGURE 1-9	REV 0 / DATE 03/06/16

C:\ALL_PROJECTS\112G07828\02\MAPDOCS\FIGURE 1-10 TOPO WATERFRONT.MXD MKB 3/6/2016

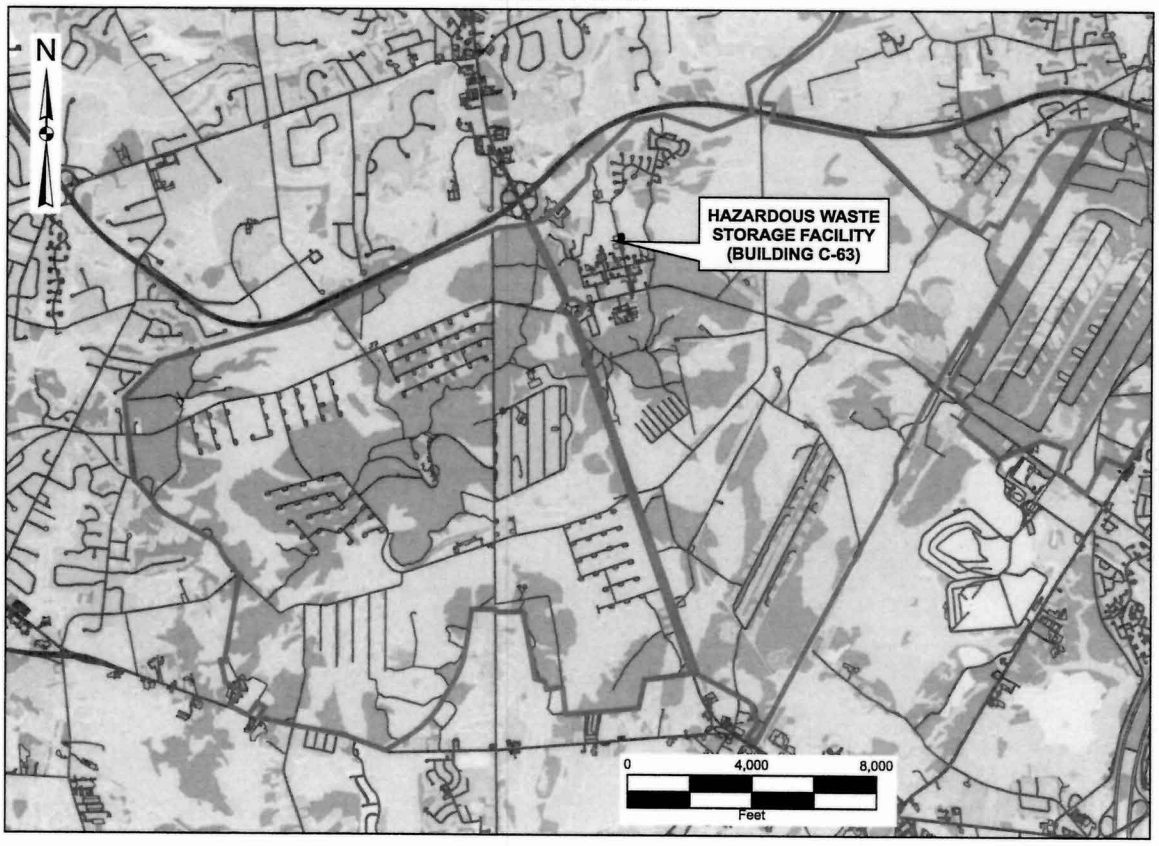


TETRA TECH

WATERFRONT AREA TOPOGRAPHIC MAP AND
100-YEAR FLOODPLAIN MAP
RCRA HAZARDOUS WASTE RENEWAL PERMIT APPLICATION
NAVAL WEAPONS STATION EARLE
COLTS NECK, NEW JERSEY

SCALE	PER SCALE BAR
FILE	FIGURE 1-9 FLOOD WATERFRONT.mxd
REV	0
DATE	03/06/16
FIGURE NUMBER	FIGURE 1-10

MAINSIDE AREA



WATERFRONT AREA

LEGEND

NWS EARLE INSTALLATION BOUNDARY

LAND USE

- AGRICULTURE
- BARREN LAND
- FOREST
- URBAN
- WATER
- WETLANDS

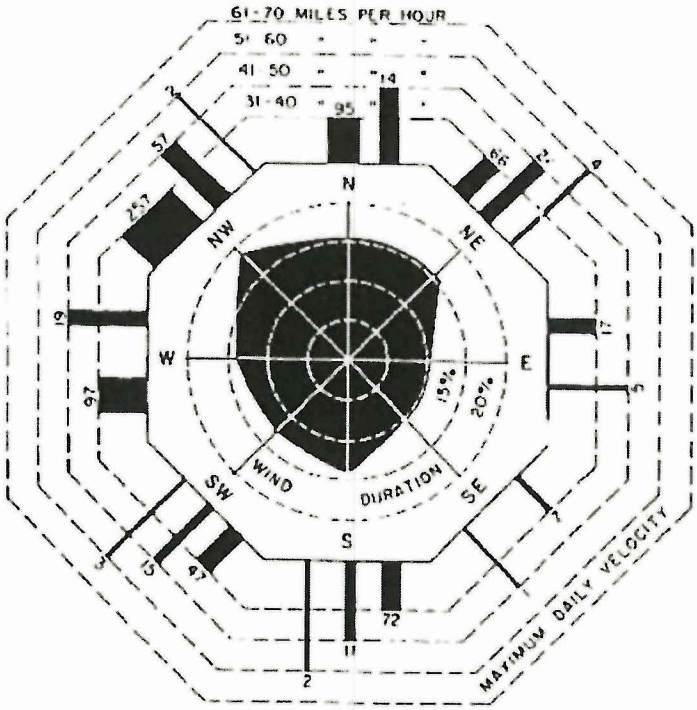
REFERENCE:
LAND USE/LAND COVER 2012 UPDATE: NJ DEPARTMENT OF ENVIRONMENTAL PROTECTION (NJDEP), OFFICE OF INFORMATION RESOURCES MANAGEMENT (OIRM), BUREAU OF GEOGRAPHIC INFORMATION SYSTEM (BGIS)

TETRA TECH

LAND USE MAP
RCRA HAZARDOUS WASTE
RENEWAL PERMIT APPLICATION
NAVAL WEAPONS STATION EARLE
COLTS NECK, NEW JERSEY

FILE FIGURE 1-11 LAND USE.mxd	SCALE PER SCALE BAR	
FIGURE NUMBER FIGURE 1-11	REV 0	DATE 03/09/16

C:\ALL_PROJECTS\112G07828\02\MAP\DOCS\FIGURE 1-12 WIND ROSE.MXD MKB 3/6/2016



Wind Rose

Source: Monmouth County Planning Board

TETRA TECH	WIND ROSE RCRA HAZARDOUS WASTE RENEWAL PERMIT APPLICATION NAVAL WEAPONS STATION EARLE COLTS NECK, NEW JERSEY	SCALE PER SCALE BAR FILE FIGURE 1-12 WIND ROSE.mxd REV 0 DATE 03/06/16 FIGURE NUMBER FIGURE 1-12

APPENDIX A

HAZARDOUS WASTE STORAGE FACILITY WEEKLY INSPECTION RECORD

NWS EARLE WEEKLY INSPECTIONS LOG

MONTH & YEAR: **INSPECTOR:**

FACILITY:	**WK1**	**WK2**	**WK3**	**WK4**	**WK5**
1. Are there holes in containers?					
2. Are any containers rusted?					
3. Are there any leaking containers?					
4. Are there any spills at the facility?					
5. Are any containers overflowing?					
6. Are there any containers with open lids or bungs?					
7. Are there any swollen or bulged containers?					
8. Is there any deterioration on containers?					
9. Are there any containers concaved due to internal vacuum build-up?					
10. Are there any containers without proper labels/ markings?					
11. Are there containers with labels/markings not readily visible?					
12. Are labels missing pertinent information?					
13. Are containers stored with incompatible waste?					
14. Is there a lack of appropriate aisle space?					
15. Is there trash or non-essential debris or water or other liquids at the facility?					
16. Are there any containers over 90 days in Less than 90 day areas?					
17. Are there any broken doors, gates or locks at the facility?					
18. Are there any cracks in berms or vehicle ramps?					
19. Are there any holes in fencing?					
20. Does the storage facility have any missing warning signs?					
21. Number of Containers:					
22. Time of inspection / inspector int.:					

NOTES:
Y: Yes N: No N/A: Not Applicable
For any items marked "Y" - Look at Comments/Recommendations

Comments/Recommendations:

APPENDIX B

ENVIRONMENTAL DIVISION POSITION DESCRIPTIONS

I. Introduction:

This position is located in the Naval Facilities Engineering Command, Mid-Atlantic (NAVFAC MIDLANT), Public Works Department (PWD), Environmental Division, located at Naval Weapons Station (NWS) Earle in Colts Neck, NJ.

The incumbent provides environmental program management support to the installation as well as to Navy tenant commands, and operational units to ensure compliance with applicable Federal, state, and local environmental regulations. The incumbent is primarily responsible for performing environmental protection tasks related to Hazardous Waste Management of the entire Station. The employee also performs technical support work to include assignments directly related to supporting the mission of NWS Earle, and protecting the environment. This work includes, but is not limited to overseeing other environmental programs such as Solid Waste, Infectious Waste, Hazardous Materials, Environmental Management Systems (EMS), Toxic Substance Control Act (TSCA) chemicals, and other environmental media areas.

Work is performed under minimum supervision, and the employee consults with the supervisor only for initial assignment, and where departures from standard practices are involved. The incumbent is responsible for overseeing hazardous waste storage facility operations, the vehicles assigned to that program, and assignments for the Station Hazardous Waste Handler.

II. Major Duties and Responsibilities

Hazardous Waste Program Manager

As the hazardous waste program manager, the incumbent is the environmental subject matter expert for the hazardous waste program, having a thorough knowledge of applicable laws and regulations to ensure installation compliance. General responsibilities include developing and implementing hazardous waste programs for the installation, researching and preparing permit applications, leading permit negotiations with regulators, completing and submitting correspondence to regulators, conducting training, and identifying and resolving compliance problems on the installation. Specific duties include:

- Ensures Station compliance with current Federal and state RCRA, DOD, and Navy environmental regulations by all generators, storers, or handlers of both regulated and non-regulated wastes.
- Coordinates the Station's Hazardous Waste Inspection Program, to ensure that the Part-B storage facility and all hazardous waste accumulation sites comply with Federal, state, DOD, and Navy regulations.
- Ensures that all hazardous and non-hazardous wastes are properly segregated according to hazard class and properly labeled and all waste streams are containerized properly for integrity during storage and transportation.
- Monitors and implements the Station's Hazardous Waste Minimization program. Develops methods and strategies to reduce the quantity and number of waste streams being generated and disposed as waste.
- Serve as the lead in all environmental regulatory matters involving the removal, collection, storage, transportation and disposal of installation-generated lead based paint (LBP) and asbestos containing material (ACM) during facility construction projects;
- Designated as station Explosive Hazardous Waste Manager, which requires coordination with Ordnance and EOD personnel for reports related to explosive hazardous waste. Classifies and disposes of explosive waste residue in accordance with state and federal regulations;
- Implements all proper hazardous waste turn-in procedures in accordance with established DOD guidelines for both shore activities and homeported ships. Serves as a liaison for all shop, tenant command, and ship supervisors to coordinate the efficient receipt and offload of all waste streams.
- Serves as liaison with the Defense Logistics Agency (DLA) to schedule hazardous waste shipments, and other environmental services provided via the DLA contractors. Prepares all turn-in documents to include waste profiles and 1348 documents.
- Maintains spreadsheets and databases that track all waste streams generated, stored, and disposed.
- Prepares periodic hazardous waste reports required for submission to federal, state, local and Navy organizations.
- Administers the Station's Medical Waste Management Program and maintains a manifest file and record of all medical waste shipped, and submits an annual Medical Waste Report to the Department of Environmental Protection.

- The incumbent maintains the hazardous waste sampling and analysis plan and the complete waste analysis reports.
- The incumbent is a member of the Station Spill Response Team, and provides technical guidance for containment, recovery, clean-up, and disposal operations during hazardous and non-hazardous material spills or releases.
- The incumbent is responsible for the daily work assignments of the Hazardous Waste Handler. This role includes daily waste pickup and inspection scheduling, ensuring proper tools and safety equipment are used, and providing the required training specific to the job functions being performed. 70%

General Environmental Compliance Duties

The incumbent is responsible for compiling environmental and scientific data, determining and applying appropriate analysis techniques, interpreting results, and selecting the most appropriate course of action to resolve the problem and enhance compliance. The work requires interfacing with engineers, scientists, construction representatives, contractors, and department/division personnel and operators to develop reports, studies, designs and construction projects needed to meet environmental requirements. The incumbent assures compliance by station departments and tenant commands by performing the following tasks:

- Reviews all applicable regulations and permits and establishes and maintains an environmental compliance assurance inspection program to be used by the department staff and tenant commands. Routinely reviews the inspection program, including permit and regulatory changes, and develops and implements program modifications to ensure continued environmental compliance and enhancement of the program efficiency;
- Identifies various potential environmental problems in a variety of media areas such as: air emissions, solid waste, hazardous materials, asbestos, lead based paint, and natural resources. Confers with Environmental Supervisor and other program media Managers to correct potential problems;
- The incumbent coordinates with senior management, in the development and annual review of Station's Environmental Management System (EMS) and Internal Assessment Plan (IAP) in accordance with ISO 14001. Conducts annual internal compliance reviews of all Station processes, facilities, and practices in accordance with the IAP. Summarizes the health of the activity's environmental program including issues requiring Major Claimant

attention and/or resources. Coordinates external assessment site visits, by Major Claimants, with Station and tenant command senior managers. Prepares and provides training as required;

- Contributes to the development of environmental goals and objectives for the installation in accordance with the installation's EMS; develops a plan to achieve those goals with minimal cost and impact on Navy mission. Collects and analyzes appropriate data to track progress toward achieving the objectives;
- Establishes document controls for Station EMS documentation (environmental plans, instructions, procedures, permits;
- Performs engineering and physical scientific analysis to determine the most feasible corrective measures for various non-routine environmental deficiencies. Researches alternative solutions, and based on professional knowledge and the collection and analysis of data, selects the most feasible alternative to comply with applicable regulations and permits. Work includes preparation of project documentation, justifications, cost benefit analyses, and environmental permit applications;
- Reviews military construction and special projects, and provides comments, as necessary, to ensure that all required provisions to meet applicable or potential environmental standards are included;
- Works with effected departments and commands to coordinate inspections by Navy, state or Federal personnel, and resolves issues related to compliance or differing regulatory interpretations;
- Reviews proposed and final environmental laws or regulations to determine impact on operations;
- Develops budget submissions for projects and recurring environmental compliance requirements. Provides technical support to supervisor and regional staff in addressing environmental project requirements within funding constraints;
- Develops program related guidance and conducts formal and informal training for personnel. Delivers presentations at Navy-sponsored courses and seminars concerned with compliance with environmental regulations;
- Conduct reviews of asbestos and lead-paint removal projects to ensure scope of work includes provisions for preventing releases to the environment and the waste will be handled, packaged, transported and disposed IAW state and federal requirements;
- Provide PWD Facilities with information regarding prior lead paint and asbestos testing performed by Environmental Office; and

- Conduct periodic regulatory oversight reviews of asbestos and lead programs;
- Coordinate with FEAD/FSC & PWD Production Divisions receipt of asbestos 10-day notification letters and lead & asbestos waste (close-out) shipment.
- Oversees solid waste, recycling, and affirmative procurement practices to ensure compliance with regulatory requirement and Navy policy;
- Compiles and analyzes waste summary and recycling data and prepares submittal of annual solid waste report to NFESC;
- Conducts annual internal assessment audits of the solid waste, recycling, and affirmative procurement programs;
- Provides training and guidance to Station personnel regarding proper disposal of solid waste, recycling and affirmative procurement;
- Monitors construction contracts to ensure contractor compliance with the specification to ensure environmental compliance;
- Performs other duties as assigned. 30%

III. Factors:

FACTOR KNOWLEDGE REQUIRED BY THE POSITION **FL: 1-7, 1250 PTS**

A. Knowledge of environmental science concepts and practices applicable to the full range of duties associated with an environmental protection program, such as operation, storage, maintenance, disposal, labeling, marking, source separation, identification, chemical characterization, waste treatment and disposal of hazardous waste, recordkeeping, sampling techniques, training methods, incident response, and implementation strategies inherent to environmental management on station.

B. Knowledge and skill to evaluate and incorporate the latest developments in the field of environmental programs into local guidance or instructions, develop compliance program monitoring parameters and procedures, prepare and review engineering and scientific studies, prepare and review project plans, and prepare environmental permits for new activities or operational changes.

C. Ability to communicate effectively, both orally and in writing, to all levels, including Navy chain of command, and representatives of local, state, and Federal environmental agencies.

D. Organizational skills necessary to ensure compliant record keeping of all reports, manifests, lab analyses, shipping documents, and inventories, as required by Station, regional, or environmental compliance agencies.

E. A thorough knowledge of the Federal, state, local and Navy environmental laws and regulations.

FACTOR 2, SUPERVISORY CONTROLS **FL: 2-4, 450 PTS**

The incumbent is under the supervision of the PWD Environmental Division Director. The supervisor sets the overall objectives and resources available. The employee and supervisor, in consultation, develop projects and deadlines for work to be done. At this level, the employee having expertise in the line of work, is responsible for planning and carrying out the assignments, resolving most of the conflicts which will arise, coordinating the work with others, and interpreting policy on his/her own initiative to meet established objectives. In most assignments, the employee also determines the approach to be taken and the methodology to be used. The employee keeps the supervisor informed of progress, potentially controversial matters, or far-reaching implications. Completed work is reviewed for its effectiveness in meeting the requirement and its compatibility with other policies and procedures.

FACTOR 3, GUIDELINES **FL: 3-4, 450 PTS**

Guidelines include catalogs, professional literature, higher authority policy, program directives, EPA, DOT, DOD regulations and technical data. The incumbent uses initiative and resourcefulness in deviating from traditional methods and techniques to develop new methods in solving technical problems. All assignments are characterized by the performance of difficult and responsible work requiring the independent selection, evaluation, and application of standard techniques, methods, and criteria, some of which require substantial adaption or implementation. The employee is required to be thoroughly familiar with such guidelines and be able to select from among alternative approaches and develop new methods when established practices are inadequate. Judgment and originality are required to correlate technical considerations with experience for the development of practical compromises. The incumbent is designed as the Station's Hazardous Waste Manager, and is responsible for following all appropriate environmental regulations and ensuring compliant oversight of all waste streams being generated on this facility.

FACTOR 4, COMPLEXITY **FL: 4-4, 225 PTS**

The incumbent's assignments involve especially complex, difficult, or sensitive problems or analysis, including the development of permit requirements and limitations of compliance actions; technical analysis of Federal, state, and municipal requirements for integration with Navy and Station needs; the determination of the need for, the development of, improvement of/or extension of existing facilities or construction of new facilities and systems; exercising full technical responsibility for projects or studies of a complex and difficult nature that are of significance to the success of the Station environmental program.

The employee must make decisions and judgments based on a combination of available guidelines, taking into account technical considerations/ evaluations, available guidelines and consequences. The duties are characterized by the broad range technical requirements that must be evaluated and applied to this Station's environmental protection program. In the field of environmental protection, there are many situations where the incumbent is challenged to make a decision on how to evaluate and dispose of hazardous waste. The considerations are based on regulatory requirements, cost factors, time limits, best management practices, and alternative means of disposal (ie. recycling, reuse, or neutralization). These hazardous wastes range from such toxic chemicals as PCB's, mercury, methyl ethyl ketone, and aliphatic isocyanate, to the less toxic, but sometimes more complex

wastes such as: batteries, contaminated soils, and petroleum products contaminated with various solvents (i.e. toluene, xylene). The types of hazardous materials and wastes are occasionally changing based on revised regulations or new waste streams, due to incoming tenant activities, which bring with it new industrial processes. The incumbent is sometimes required to take samples of these materials in order to obtain an accurate laboratory analysis. This also includes analysis of ash from EOD operations for disposal of waste military munitions.

FACTOR 5, SCOPE AND EFFECT **FL: 5-4, 225 PTS**

The purpose of this work is to plan and carry out a major environmental program, Hazardous Waste Management. The work involves determining the soundness of installation environmental programs and plans; developing and establishing new approaches and methods for use by station personnel; resolving problems that are critical to accomplishment of the station objectives; providing authoritative advice and technical assistance to Federal, state, and local environmental protection officials; or developing and revising regulations or standards that could affect surrounding communities. The work affects the development of major aspects of the Station's environmental protection program and policies, the work of state and local officials, and top-level managers of the Station.

FACTOR 6, PERSONAL CONTACTS **FL: 6-3**

Contacts are with Station personnel, EPA, NJDEP, DOT, management representatives, Regional environmental staff, outside activities, representatives of professional organizations, contractors, and tenant activities.

FACTOR 7, PURPOSE OF CONTACTS **FL: 7-c w/6-3, 180 PTS**

The purpose of contacts is to motivate, influence, or control the environmental policies on Station using established regulations, and to utilize in a professional manner those communication skills to convey these requirements. Contacts are required to discuss, instruct, negotiate, and resolve often significant and controversial environmental problems, and for gaining knowledge and acquiring skills essential to implementing and maintaining an effective environmental program.

FACTOR 8, PHYSICAL DEMANDS **FL: 8-2, 20 PTS**

There is often exposure to hazardous waste generation and storage sites as well as uncontrolled spill sites, while directing work to be performed. Walking and climbing are common and in various weather conditions and heavy activity is occasionally necessary.

FACTOR 9, WORK ENVIRONMENT **FL: 9-2, 20 PTS**

Work is in an office and/or field setting. During visits to sites and facilities, there may be exposure to dangerous chemicals, explosives, fumes, noise, contaminated water or soils, and machinery.

REQUIREMENTS

This is a Noncritical sensitive IT-II position, and must maintain eligibility for a secret clearance and access to the computer network.

A valid state driver's license is required.

May be required to travel, work weekends/holidays and after hours.

Must use protective clothing and gear and retain certification for respirator use.

Will be required to attend training off Station.

This position is eligible for telework at the discretion of the supervisor.

This position is designated as Non-Mission Essential.

HAZARDOUS WASTE DISPOSER (MOTOR VEHICLE OPERATOR)
WG-6913-07

I. JOB SUMMARY

This position is located in the Naval Facilities Engineering Command, Mid-Atlantic (NAVFAC MIDLANT), Operations Officer, PWO/Deputy PW Officer Earle, Environmental Division, Environmental Compliance Branch, located at Naval Weapons Station (NWS) Earle in Colts Neck, NJ.

The incumbent exercises expertise in support of the hazardous waste program and other duties related to the management of waste on NWS Earle. The incumbent provides support on environmental issues concerning PCBs, industrial wastes, solid wastes, hazardous wastewater, non-regulated wastes, and emergency spill response to the Public Works Environmental Division.

The incumbent will be required to respond to all areas of the Station that may include traveling over public roads to access those areas. This involves operation of various government vehicles, including forklifts and trucks, and possession of a valid state driver's license and a CDL license with Haz-Mat endorsement.

Incumbent may be designated as Alpha personnel and as such will be required when contacted to respond to emergency calls 24 hours a day, 7 days a week. This will also require the incumbent to carry, use, and answer a government supplied cellular telephone while on and off duty.

This is a Nonsensitive position.

II. TYPICAL WORK PERFORMED

The employee, as part of the PWD Environmental Division, provides input to planning, auditing, guiding, and assuring compliance of hazardous and industrial waste collection and disposal issues associated with NAVFAC MIDLANT and NWS Earle operations.

Works independently conducting routine inspections of the permitted hazardous waste storage facility, less than 90 day accumulation sites and fuel storage areas while maintaining logs of all inspections in a central database. Where deficiencies are noted, the employee makes corrections on-the-spot or provides recommendations for resolving problems.

Interacts with work center hazardous waste coordinators to ensure the proper management of hazardous waste at all accumulation and satellite sites.

Collects, transports, handles, repackages, stores, and prepares hazardous waste for disposal shipment as directed by the hazardous waste program manager.

Assures that stored hazardous waste is in proper physical location within the facility, and safely stacked and segregated to prevent accidental mixing of incompatible materials. Assures visibility and proper use of hazardous identification labels.

Travels to all less-than-90-day accumulation sites, homeported and visiting ships at the Earle pier complex, and all other locations within the NWS Earle facility in order to pick up, secure, and transport waste containers to the hazardous waste facility.

Prior to shipments of hazardous waste the incumbent prepares required bar coded shipping labels and documentation required by the waste disposal service provider.

Provides input in the development and updating of Standard Operating Procedures (SOPs) for the hazardous waste management program.

Establishes and maintains communication networks essential to the efficient management of hazardous and industrial waste processes. Essential communications include continuous contact with the hazardous waste program manager and PWD Environmental Division Director via e-mail, cell phone, and face to face communication.

Assists in the cleanup of hazardous waste and hazardous material spills. Performs initial identification of unknown substances as required. Responsible for the safe use of spill containment booms, absorbents, neutralization chemicals, and other equipment required for safe and effective cleanup of spills. Cleans and decontaminates equipment utilized in controlling and cleaning up spills.

Collects samples of water, air, soil, known and unknown hazardous wastes using various collection methods and devices. Prepares necessary labels and chain-of-custody documents for collected samples.

Serves as a member of the Station emergency spill response team and participates in periodic drills as outlined in NWS Earle response plans. All OSHA, DOT, NJDEP and EPA training requirements will be kept current.

100%

III. FACTORS

A. Skill and Knowledge

Knowledge of the operations, technical details, and compliance issues associated with the Hazardous Waste Management Program in order to provide technical guidance to station hazardous waste coordinators and deal with environmental regulators.

The incumbent must have a thorough knowledge of Department of Transportation, NJ Department of Environmental Protection and US Environmental Protection Agency regulations, as they relate to hazardous waste repackaging, transportation, disposal and record keeping requirements. Must also have knowledge of chemicals to recognize the hazard class and to insure proper labeling, segregation, and transfer of waste.

Must have skill in proper identification, sampling, tracking, segregating, transporting, labeling, storage, regulatory documenting, and handling of hazardous waste and hazardous spill residues in order to insure that hazardous waste is properly accumulated, stored, and manifested in accordance with State and Federal requirements.

Must be able to effectively communicate orally and in writing and be able to utilize a computer for routine correspondence and preparation of inspection reports.

Must be knowledgeable in the use and wearing of personnel protection equipment (PPE) and be able to select the level of protection necessary for each task. Must be able to read and interpret product labels to determine hazard characteristics of chemicals.

Incumbent must be SCBA qualified.

Must have the skill to operate motor vehicles with manual transmission and up to 16,000 pounds GVW. Must be able to safely operate electric power spark arrested forklifts with a lifting capacity of 4,000 pounds. Must possess a Class C Commercial Driver's License (CDL) with air brakes and Hazardous (H) material endorsement.

Incumbent is required to have a working knowledge of computer software, which includes Microsoft Outlook, Microsoft Word, Microsoft Excel, and Microsoft Access.

Incumbent must have received 40 hour initial training in RCRA Hazardous Waste Management, OSHA Hazwoper, and DOT Hazardous Materials Transportation. Annual and periodic refresher training must be kept current as a condition of employment.

B. Responsibility

The immediate supervisor is the Hazardous Waste Program Manager. The PWD Environmental Director will set the overall position objectives. The incumbent exercises initiative and independence in carrying out normal assignments using sound judgment to interpret policy and regulations. The incumbent provides guidance to military personnel, civilian employees, and contractors who generate hazardous and industrial waste within the confines of the Station. The incumbent maintains constant communication with concerned parties to resolve issues before they become problems.

Work is reviewed upon completion for practicality of results and regulatory compliance. The Hazardous Waste Program Manager and Environmental Director are available to provide technical direction on new and complex processes.

C. Physical Effort

Work involves climbing, prolonged standing, bending, heavy lifting, and moving drums filled with hazardous materials/waste, manually loading and unloading materials, drums, lab boxes, and tri-walls. Requires use of hand-trucks and other types of material loading equipment. Work will require the use of of personal protective equipment (PPE). PPE may include, but is not limited to gloves, eye protection, safety shoes, and occasional encapsulated suits with a respirator during various both heat and cold.

D. Working Conditions

Work must be performed in all extremes of weather during normal operations and during spill responses. Incumbent must be able to wear personal protective equipment. May be required at times to work in rough terrain or confined spaces and work with known and unknown hazardous chemicals that are toxic, potentially explosive, flammable, highly reactive, and corrosive to metal, skin, and eyes.

EVALUATION REPORT

PD NO. 1113A

POSITION: Hazardous Waste Disposer (Motor Vehicle Operator), WG-6913-07

ORGANIZATION: PRE41

DATE: February 9, 2011

NATURE OF ACTION: Advisory classification for new position.

EVALUATION:

REFERENCE:
(a) Office of Personnel Management's Job Grading Standard for the Hazardous Waste Disposing, WG-6913 series, dated December, 1997.

GRADE LEVEL DETERMINATION:

The assignments of the subject position are comprised of Hazardous Waste Disposing duties.

The Hazardous Waste Disposing assignments are evaluated by reference (a) and meet the classification criteria for the WG-6913-07 grade level, which is the highest level in the WG-6913 classification standard. Like the WG-7 criteria depicted in the referenced standard, the assignments of the subject position typically involve collecting, transporting handling, repackaging, storing and preparing hazardous waste for shipment; traveling to ships and shore facilities to receive hazardous waste, and loading, securing, and transporting it to storage facilities. The incumbent must be aware of incompatible waste to prevent accidental mixing of legally incompatible waste to prevent the transport of those hazardous materials. As required at the WG-7 level, the incumbent packages or re-containerizes hazardous waste for storage and/or shipment as directed. Additionally, the incumbent provides input to the development and updating of Standard Operating Procedures for the Hazardous Waste Management Program, which is also compatible with the type of assignments performed at the WG-7 level. Specifically, the standard states that WG-7 hazardous Waste Disposers may be required to support environmental and/or

engineering personnel in the development of new or specialized processing procedures. Based on the above rationale, the Hazardous Waste Disposing assignments of the position are evaluated at the WG-6913-7 level. The Responsibility, Physical Effort and Working Conditions factors of the subject position are also compatible with the WG-7 level criteria. Consequently, the WG-7 grade level is the appropriate grade level for the Hazardous Waste Disposer assignments of the subject position. The operation of the various government vehicles and forklifts are evaluated below the WG-7 grade level of the applicable standards (WG-5703 and WG-5704). However, since the Motor Vehicle Operating assignments require a commercial drivers' license with Haz-mat endorsement, which affects the qualification requirements of the subject position, Motor Vehicle Operator is parenthetically added to the title of the subject position.

TITLE AND SERIES DETERMINATIONS:

The appropriate title and series for the subject position are determined to be the Hazardous Waste Disposer (Motor Vehicle Operator), WG-6913 series.

Based on the rationale provided in this report, the subject position is classified as Hazardous Waste Disposer (Motor Vehicle Operator), WG-6913-7.

Brenda F. Rose
Contract Classification Spec.
February 9, 2011

APPENDIX C

SPILL EQUIPMENT INVENTORY

Spill Equipment Inventories
Hazardous Waste Storage Facility and Hazardous Waste Transportation Vehicle
Naval Weapons Station Earle
Colts Neck, New Jersey

Hazardous Waste Storage Facility (Building C-63) Spill Equipment

(4) Hand-held ABC fire extinguishers

(1) Portable Spill Kit

(1) Pallet Jack

(1) Explosion-proof Forklift

(1) Drum Hand Truck

(2) Spark-proof Shovels

(1) Steel Shovel

(1) Heavy Duty Broom

(5) Rolls of Packing Tape

(4) Bags Speedy-Dry Absorbent

(3) Bundles of Spill Pads

(6) Land Spill Boom

(10) Tyvek Suits

(4) Saranex Suits

(20) Pair Latex Gloves

(4) Pair Rubber Gloves

Hazardous Waste Transportation Vehicle Spill Equipment

(1) Cell Phone (with emergency contacts)

(1) ABC Fire Extinguisher

(1) Empty 55-gallon steel drum

(1) Empty 55-gallon polypropylene drum

Hazardous Waste Transportation Vehicle Spill Equipment (continued)

(1) Empty 85-gallon over-pack drum

(3) 40-lb bag Speedy dry absorbent

(2) Spill pads bundle

(2) Spill booms bundle

(1) Spark-proof shovel

(1) Heavy duty bristle broom

(5) Heavy duty trash bags

(1) Spark-proof bung wrench

APPENDIX D

OB/OD UNIT DELAY-OF-CLOSURE AND CONTINGENT POST CLOSURE PLAN APPROVAL

State of New Jersey

HRIS CHRISTIE
Governor

KIM GUADAGNO
Lt. Governor

MAIL CODE 401-02C
BUREAU OF LANDFILL AND HAZARDOUS WASTE PERMITTING
SOLID AND HAZARDOUS WASTE MANAGEMENT PROGRAM
CLIMATE AND ENVIRONMENTAL MANAGEMENT
NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
P.O. BOX 420 401 EAST STATE STREET
TRENTON, NJ 08625-0420
TELEPHONE: (609) 984-6985 TELECOPIER: (609) 633-9839
http://www.state.nj.us/dep/dshw/permitting.htm

BOB MARTIN
Commissioner

SEP 07 2011

Re: Delay-of-Closure and Contingent Post Closure Plan Approval, Department of the Navy, Naval Weapons Station Earle, Federal Enclave Located in Monmouth County, EPA ID No.: NJ0 170 022 172, Closure Plan Approval No.: HWC110001

Dear Sir/Madam:

The Bureau of Landfill and Hazardous Waste Permitting, has evaluated the public comments received on the draft Delay-of-Closure and Contingent Post Closure Plan (hereinafter referred to as the closure plan) for Naval Weapons Station Earle (NWSE) as were submitted in writing during the public comment period which began on June 29, 2011 and ended on August 29, 2011.

The Bureau has reached a final determination to approve the closure plan. A copy of the Closure Plan Approval and Report of Public Comment are enclosed for your information.

Should you have any questions regarding this matter, please contact John Scott of my staff at 609-984-2040 or at john.scott@dep.state.nj.us.

Very truly yours,

Robert M. Confer, Chief
Bureau of Landfill and Hazardous Waste Permitting

HWF11-17278
Enclosures: 1) Final Closure Plan Approval No. HWC110001; and 2) Report of Public Comment.
Doc.: Mayor Final Closure Plan Approval
C: Jennifer Meyer, BLHWP, w/o enclosures
Adolph Everett, USEPA Region II, w/o enclosures

NAVAL WEAPONS STATION EARLE DELAY-OF-CLOSURE MAILING LIST
(EPA ID NO.: NJ0 170 022 172)

INTERSETED PARTIES

Eric Helms
Environmental Engineer
Department of the Navy
Naval Weapons Station Earle
Environmental Division
201 Highway 34 South, Bldg. C-23
Colts Neck, N.J. 07722

Scott Fleming
Environmental Engineer
Department of the Navy
Naval Weapons Station Earle
Environmental Division
201 Highway 34 South, Bldg. C-23
Colts Neck, N.J. 07722

Last Update: 07/13/11
Doc: Delay-of-Closure Mailing List

State of New Jersey

CHRIS CHRISTIE
Governor

KIM GUADAGNO
Lt. Governor

MAIL CODE 401-02C
BUREAU OF LANDFILL AND HAZARDOUS WASTE PERMITTING
SOLID AND HAZARDOUS WASTE MANAGEMENT PROGRAM
CLIMATE AND ENVIRONMENTAL MANAGEMENT
NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
P.O. BOX 420 401 EAST STATE STREET
TRENTON, NJ 08625-0420
TELEPHONE: (609) 984-6985 TELECOPIER: (609) 633-9839
http://www.state.nj.us/dep/dshw/permitting.htm

BOB MARTIN
Commissioner

DELAY-OF-CLOSURE and CONTINGENT POST-CLOSURE PLAN

Under the provisions of N.J.S.A. 13:1E-1 et seq. known as the Solid Waste Management Act, this Delay-of-Closure and Contingent Post-Closure is hereby issued to:

Department of the Navy
Naval Weapons Station Earle
Explosive Ordnance Range Open Burning/Open Detonation Unit
Pine Brook Road
Monmouth County, New Jersey 07722-5014

For the Purpose of:	Delay-of-Closure and Contingent Post-Closure
County:	Federal Enclave Located in Monmouth County
Under Closure Plan Approval No.:	HWC110001
USEPA ID No.:	NJ0170022172

This Delay-of-Closure and Contingent Post-Closure Plan is subject to compliance with all conditions specified herein and all applicable regulations promulgated by the New Jersey Department of Environmental Protection.

SEP 07 2011
Issuance Date

Robert M. Confer, Chief
Bureau of Landfill and
Hazardous Waste Permitting

OCT 07 2011
Effective Date

Sep 7, 2021
Expiration Date

Scope of the Delay-of-Closure and Contingent Post-Closure Plan

The conditions of this Delay-of-Closure and Contingent Post-Closure Plan approval (hereinafter referred to as the closure plan) are based on the New Jersey hazardous waste regulations at N.J.A.C. 7:26G and on the closure plan application submitted by Naval Weapons Station Earle. N.J.A.C. 7:26G "incorporates by reference" (with limited exception) the Federal hazardous waste regulations found at Parts 124, 260-266, 268 and 270, Title 40 of the Code of Federal Regulations (C.F.R.). In order to eliminate confusion and to clearly describe the precise obligations that are imposed upon Naval Weapons Station Earle only the specific Federal regulatory citations are listed in the conditions of this closure plan approval. For the applicable State regulatory citations, refer to N.J.A.C. 7:26G.

This closure plan approval, along with the referenced application documents herein specified, shall constitute the sole closure plan approval for Naval Weapons Station Earle's explosive ordnance range open burning/open detonation unit. Any registration, approval or permit previously issued by the Solid and Hazardous Waste Management Program or its predecessor agencies is hereby superseded. Naval Weapons Station Earle need not comply with the conditions of this closure plan approval to the extent and for the duration such non-compliance is authorized by an emergency permit (40 C.F.R. 270.61).

Description of the Delay-of-Closure and Contingent Post-Closure Activities

The closure plan approval will authorize Naval Weapons Station Earle to continue to operate the explosive ordnance range open burning/open detonation unit in the course of conducting treatment or containment activities during an immediate response, explosives or munitions emergency response, training military personnel or explosives and munitions emergency response specialists (including training in the proper destruction of unused propellant or other munitions), research, development, testing, and evaluation of military munitions, weapons, or weapon systems or recovery, collection, and on-range destruction of exploded ordnance and munitions fragments during range clearance activities at active or inactive ranges or the repair, reuse, recycling, reclamation, disassembly, reconfiguration, or other wise subject to materials recovery activities of unused munitions or components thereof.

Referenced Delay-of-Closure and Contingent Post-Closure Application Documents

Naval Weapons Station Earle shall operate the facility, and construct or install associated appurtenances thereto, in accordance with the regulations contained in 40 C.F.R. Parts 260, 265 and 266 and the conditions of this closure plan approval and the following application document:

RCRA Subpart X Permit Application for Naval Weapons Station Earle Colts Neck New Jersey, Volumes 1 through 3, dated July 1996, and subsequent revisions.

In case of conflict, the applicable hazardous waste management regulations contained in 40 C.F.R. shall have precedence over the conditions of this closure plan approval, and the conditions of this closure plan approval shall have precedence over the closure plan application documents.

One complete set of the closure plan application documents listed above, this closure plan , and all records, reports and plans as may be required pursuant to this closure plan approval shall be kept on-site and shall be available for inspection by authorized representatives of the Department upon presentation of credentials. The records, reports and plans required pursuant to this closure plan approval include the following:

1) The description of the personnel training program and the records required by this closure plan approval and 40 C.F.R. 265.16.

2) The Contingency Plan required by this closure plan approval and 40 C.F.R. Part 265 Subpart D, and specifically the plan prepared by Northern Division Naval Facilities Engineering Command entitled RCRA Subpart X Permit Application for Naval Weapons Station Earle Colts Neck, New Jersey Section G, Volume 1, dated July 1996, and subsequent revisions.

3) The written Operating Record required by this closure plan approval and 40 C.F.R. 265.73.

4) The Waste Analysis Plan outlined in the closure plan application and as required by 40 C.F.R. 265.13, and specifically the plan prepared by Northern Division Naval Facilities Engineering Command entitled RCRA Subpart X Permit Application for Naval Weapons Station Earle Colts Neck, New Jersey Section C, Volume 1, dated July 1996, and subsequent revisions.

5) The Inspection Schedule required by 40 C.F.R. 265.15(b) and the records required by this closure plan approval.

6) The closure plan required by this closure plan approval and 40 C.F.R. 265.112 and 40 C.F.R. 265.118, respectively, and specifically the plans prepared by Northern Division Naval Facilities Engineering Command entitled RCRA Subpart X Permit Application for Naval Weapons Station Earle Colts Neck, New Jersey Section I, Volume 1, dated July 1996, and subsequent revisions.

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1. After four (4) consecutive quarters of groundwater sampling and analysis have been completed and validated by Naval Weapons Station Earle (NWSE), NWSE may make a written request to the Bureau of Landfill and Hazardous Waste Permitting (Bureau) to re-evaluate the constituents for which groundwater sampling and analysis must be performed. [40 CFR 265.Sub. F, 40 CFR 265.92(d)(2), 40 CFR 270.32(b)(2)]
2. All groundwater samples shall be collected and analyzed in accordance with the procedures specified in the RCRA Subpart X Permit Application for NWSE Colts Neck, New Jersey Volumes 1 through 3 dated July 1996 and subsequent revisions and shall employ equipment and methods as desribed in the latest edition of United States Environmental Protection Agency (USEPA) Manual SW-846 or as otherwise approved by the USEPA or the New Jersey Department of Environmental Protection (NJDEP). All analyses performed to comply with the conditions of this Delay-of-Closure and Contingent Post-Closure Plan approval (hereinafter referred to as the closure plan) shall be conducted by a laboratory that is certified by the NJDEP in accordance with N.J.A.C. 7:18-4.1(b) to conduct the analysis. [40 CFR 264.13(b), 40 CFR 265.Sub. F, 40 CFR 270.32(b)(2)]
3. All sampling analysis and validation data required by this approval shall be submitted to the addresses listed in Condition 18 of this approval within four (4) months from the date of sampling. [40 CFR 270.32(b)(2)]
4. At the time of closure, NWSE shall treat or remove from the explosive ordnance range open burning/open detonation (OB/OD) units (hereinafter referred to as the range) or dispose of on-site or off-site all hazardous waste and hazardous waste constituents. Closure activities shall be completed in accordance with the schedule in the closure plan and 40 C.F.R. 265.113. [40 CFR 265.113, 40 CFR 270.32(b)(2)]
5. In accordance with 40 C.F.R. 265.112(d), NWSE shall notify the Bureau at least sixty (60) days prior to the date on which the facility expects to begin closure of the range. [40 CFR 265.112(d)]
6. In accordance with Section I, Closure Plan of the RCRA Subpart X Permit Application for NWSE Colts Neck, New Jersey Volume 1 dated July 1996 and subsequent revisions soil, groundwater, surface water and sediment sampling and analysis shall be completed within one hundred eighty (180) days from the date of implementation of closure. [40 CFR 265.113, 40 CFR 270.32(b)(2)]
7. NWSE is prohibited from the OB/OD or other treatment at the range of military munitions or explosives defined as solid waste at 40C.F.R. 266.202(b) and (c) that meet the definition of hazardous waste at 40 C.F.R. 261.3 except as authorized by this closure plan approval. [40 CFR 261.3, 40 CFR 266.202(b), 40 CFR 266.202(c), 40 CFR 270.32(b)(2)]
8. NWSE shall amend the closure plan, in accordance with 40 C.F.R. 265.112(c), whenever necessary and whenever requested by the Bureau. [40 CFR 265.112(c), 40 CFR 270.32(b)(2)]
9. NWSE shall amend the environmental sampling plan whenever necessary and whenever requested by the Bureau. [40 CFR 270.32(b)(2)]
10. NWSE shall amend the post-closure plan in accordance with 40 C.F.R. 265.118(d), whenever necessary and whenever requested by the Bureau. [40 CFR 265.118(d), 40 CFR 270.32(b)(2)]
11. NWSE shall comply with all applicable interim status requirements at 40 C.F.R. Parts 265 and 270 until closure and contingent post-closure care (if applicable) periods for the range are complete. [40 CFR 265, 40 CFR 270, 40 CFR 270.32(b)(2)]
12. NWSE shall comply with the biannual report requirements of 40 C.F.R. 265.75. [40 CFR 265.75, 40 CFR 270.32(b)(2)]

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13. NWSE shall comply with the requirements of 40 C.F.R. 265.116 and 40 C.F.R. 265.119 regarding the submittal of a survey plat and post-closure notices (if applicable). [40 CFR 265.116, 40 CFR 265.119, 40 CFR 270.32(b)(2)]

14. NWSE shall conduct annual groundwater compliance monitoring at the range in accordance with 40 C.F.R. Part 265 Subpart F and the RCRA Subpart X Permit Application for NWSE Colts Neck, New Jersey Volumes 1 through 3, dated July 1996 and subsequent revisions. After four (4) consecutive quarters of groundwater monitoring have been completed, NWSE may make a written request to the Bureau for a reduction in the groundwater monitoring frequency from quarterly to semi-annually. After consecutive semi-annual groundwater monitoring has been compeleted, NWSE may make a written request to the Bureau for a reduction in groundwater monoitoring frequency from semi-annual to annual. [40 CFR 265.Sub. F, 40 CFR 270.32(b)(2)]

15. NWSE shall decontaminate or dispose of all contaminated equipment, structures, and soils as required by 40 C.F.R. 265.114 and the closure plan. [40 CFR 265.114, 40 CFR 270.32(b)(2)]

16. NWSE shall maintain at the facility, until closure is complete and certified by a qualified professional engineer registered in the State of New Jersey, an operating record as required by 40 C.F.R. 265.73(a) and (b)(1) through 6 as well as the following documents and all amendements, revisions and modifications to these documents: a) A description of the quantity of the materials received for research, testing, training and emergency response and the methods and dates of their treatment at the range. b) Waste Analysis Plan, as required by 40 C.F.R. 265.13 and any document(s) referenced therein to describe on-site procedures; c) Personnel training documents and records as required by 40 C.F.R. 265.16; d) Contingency Plan, as required by 40 C.F.R. 265.110 and 118; f) Inspection schedules as required by 40 C.F.R. 265.15; g) Record of facility inspections as required by 40 C.F.R. 265.15; h) Groundwater Monitoring Plan, Quality Assurance Plan and Sampling and Analysis Plan as required by 40 C.F.R. Part 265, Subpart F and any documents(s) referenced therein to describe on-site procedures; i) Groundwater monitoring data as required by 40 C.F.R. Part 265, Subpart F; and j) Records of monitoring information as required by 40 C.F.R. 270.30(j)(3) including: i) The date(s), exact place and times of sampling or measurements; ii) The individual(s) who performed the sampling or measurements; iii) The date(s) the analyses were performed; iv) The individual(s) and labatory(ies) who performed the analyses; v) The analytical technique(s) or method(s) used. Analytical techniques or methods is defined as encompassing both the sampling technique (method) and and method of analysis used; and vi) The result(s) of such analyses, including Quality Assurance/Quality Control documentation. [40 CFR 265.Sub. F, 40 CFR 270.30(j)(3), 40 CFR 270.32(b)(2)]

17. NWSE shall maintain security at the range during closure, delay-of-closure and contingent post-closure care period (if applicable), in accordance with the RCRA Subpart X Permit Application for NWSE, Colts Neck, New Jersey, Volumes 1 through 3, dated July 1996 and subsequent revisions. [40 CFR 265.14, 40 CFR 265.117(b), 40 CFR 270.32(b)(2)]

18. NWSE shall submit all compliance documents required by this closure plan approval to the following addresses: a) USEPA-Region II, Mr. Adolph Everett, Chief, RCRA Programs Branch, 290 Broadway, New York, N.Y. 10007; b) NJDEP Mail Code 401-02C, Mr. Robert M. Confer, Chief Bureau of Landfill and Hazardous Waste Permitting, P.O. Box 420, 401 East State Street, Trenton, N.J. 08625-0420; and c) NJDEP Mail Code 09-03, Mr. Joseph Mirabella, Supervisor Hazardous Waste Compliance and Enforcement-Central Region Field Office, 9 Ewing Street, P.O. Box 420, Trenton, New Jersey 08625-0420. [40 CFR 270.32(b)(2)]

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19. No later than sixty (60) days after completion of the post-closure period (if applicable) for the range, NWSE shall submit to the Bureau by registered mail, a certification that the post-closure care for the range was performed in accordance with the approved post-closure plan. The certification shall be signed by NWSE and a qualified professional engineer registered in the State of New Jersey. [40 CFR 265.120, 40 CFR 270.32(b)(2)]

20. OB/OD at the range shall consist of the following activities: a) Persons responding to an explosives or munitions emergency as defined at 40 C.F.R. 260.10 conducted in accordance with 40 C.F.R. 264.1(g)(8)(i)(D) or (iv) or 265.1(c)(11)(i)(D) or (iv), 266.204, and 270.1(c)(3)(i)(D) or (iii); b) Persons engaged in treatment or containment activities during an immediate response conducted in accordance with 40 C.F.R. 264.1(g)(8)(i), or 265.1(c)(11)(i), and 270.1(c)(3)(i); c) OB/OD of explosives or military muntions that do not meet the definition of solid waste at 40 C.F.R. 266.202(a). [40 CFR 260.10, 40 CFR 264.1(g)(8)(i), 40 CFR 264.1(g)(i)(D), 40 CFR 264.1(g)(8)(iv), 40 CFR 265.1(c)(11)(i), 40 CFR 265.1(c)(11)(iv), 40 CFR 266.202(a), 40 CFR 266.204, 40 CFR 270.1(c)(3)(i), 40 CFR 270.1(c)(iii), 40 CFR 270.32(b)(2)]

21. The range shall be closed in accordance with 40 C.F.R. 265 Subpart G and the closure and contingent post-closure plan (if applicable) of the RCRA Subpart X Permit application for NWSE Colts Neck New Jersey, Volumes 1 through 3, dated July 1996 and subsequent revisions. [40 CFR 265.Sub. G, 40 CFR 270.32(b)(2)]

22. This closure plan approval shall expire ten (10) years from the date of issuance. Should NWSE wish to continue to extend the closure of the range after the expiration date of this closure plan approval, NWSE shall submit a written request to the Bureau for renewal six (6) months prior to the expiration date of this approval. Should NWSE fail to submit a timely request for renewal or if the Bureau denies the request, NWSE shall immediately implement the closure and contingent post-closure plan (if applicable) required by this closure plan approval upon expiration of this approval. [40 CFR 270.32(b)(2)]

23. Upon completion of closure, the Bureau will review the closure certifications and the closure soil, groundwater, surface water and sediment sampling and analysis. The Bureau will also conduct a closure certification inspection. In addition, the Bureau will determine if the range has been closed without leaving hazardous waste or hazardous waste constituents in place (clean closure). Should the Bureau determine that the closure sampling and analysis and closure inspection are satisfactory and that the range has been cleaned closed, the Bureau will accept the closure certifications and the closure will be deemed to be complete. Should the Bureau determine that the range has not been cleaned closed, NWSE shall obtain a post-closure permit or its equivalent and close the range in accordance with 40 C.F.R. Subpart N and the contingent post-closure plan. Post-closure care shall continue for thirty (30) years after completion of closure. Post-closure care shall be conducted in accordance with 40 C.F.R. 265.117 and the contingent post-closure plan. [40 CFR 265.Sub. N, 40 CFR 265.117, 40 CFR 270.32(b)(2)]

24. Within sixty (60) days of completion of closure, NWSE and a qualified professional engineer registered in the State of New Jersey shall certify to the Bureau that the range has been closed in accordance with the specifications of the approved closure plan as required by 40 C.F.R. 265.115. [40 CFR 265.115, 40 CFR 270.32(b)(2)]