



# 10

## Sea Disposal of Military Munitions

Section 314 of the Fiscal Year (FY) 2007 National Defense Authorization Act (NDAA) directed the Secretary of Defense to review and report the types, quantities, and locations of chemical warfare material (CWM) and conventional munitions disposed of by the Department in U.S. coastal waters. DoD began to report the results of its historical records research in the FY2006 Defense Environmental Programs Annual Report to Congress. Even though FY2009 is the last year the Department is required to report to Congress on DoD's past sea disposal activities, the Department plans to continue its research.

## Sea Disposal of Military Munitions at a Glance

### Program Accomplishments:

- Completed the initial inventory of sea disposal sites
- Engaged the National Oceanic and Atmospheric Administration in researching the history of disposal sites currently on nautical charts
- Continued to develop and provide outreach materials

## Overview

The Department disposed of excess, obsolete, unserviceable, and captured enemy munitions in the waters off the shores of the United States until 1970. Subsequently, Congress prohibited the practice with the passage of the Marine Protection, Research, and Sanctuaries Act of 1972. Prior to the 1970s, munitions disposal was generally limited to burning, burial on-land, or disposal at sea. At the time, sea disposal was considered one of the safest alternatives available to dispose of munitions.

The U.S. Armed Forces established policies for munitions disposal beginning in 1917. These policies evolved to define depths and locations of disposal sites and became more stringent over time in an effort to reduce the possibility of recovery and accidental contact by the public. For instance, in 1944, the War Department required the disposal of chemical warfare material (CWM) to occur in water at least 300 feet deep and 10 miles from shore and established specific criteria for conventional munitions disposal. By December 1945, the Department increased the disposal depth requirement to 6,000 feet for CWM and 3,000 feet for explosives and ammunition. The Department also published disposal locations in a notice to mariners and on nautical charts.

DoD has developed an inventory of sea disposal sites and will continue to update the inventory as new information becomes available.

## Chapter Contents

This chapter summarizes the status and performance trends on the following Sea Disposal of Military Munitions initiatives:

- Archival Research
- Stakeholder Involvement

**Figure 10-1** Summary of Sea Disposal of Military Munitions—Chemical

Chemical Agent	Atlantic Coast (tons)	Caribbean Coast (tons)	Pacific Coast (tons)	Gulf Coast (tons)	Alaska Coast (tons)	Hawaii Coast (tons)	Total NCAW (tons)
Lewisite	9,907	--	1,882	--	1,180	253	13,222
Mustard	5,393	<1	9,121	8	57	2,257	16,836
Sarin	253	--	--	--	--	--	253
VX	131	--	--	--	--	--	131
Arsenic Trichloride	505	--	--	--	--	--	505
Arsenic	16	--	--	--	--	--	16
Phosgene	34	--	--	1	--	--	35
Cyanogen Chloride	1	7	--	--	--	204	212
Cyanide	8	--	--	--	--	2	10
Tabun	--	15	--	--	--	--	15
Sulfur Monochloride	16	--	--	--	--	--	16
Unknown Agent	744	--	--	184	--	--	928
<b>Total</b>	<b>17,008</b>	<b>22</b>	<b>11,003</b>	<b>193</b>	<b>1,237</b>	<b>2,716</b>	<b>32,179</b>

## Archival Research

To date, DoD has reviewed archival records on CWM, chemical agents, and conventional munitions disposed of by DoD Components in the waters of the United States between 1917 and 1970. The research completed during FY2009 identified many conventional munitions disposals and additional documentation. The discovered documentation resulted in the reassignment of certain disposals from one site to another and revisions to the net chemical agent weight (NCAW) per unit for some CWM disposals. DoD disposed of approximately 32,000 tons of CWM in waters off the coast of the United States. Chemical agent, as used in this chapter, is defined as those substances on the Chemical Weapons Convention (CWC) schedule of toxic chemicals and their precursors. The following figures display the Department's current findings:

- Figure 10-1 provides a summary of the NCAW of CWM according to the chemical agent and water body where disposal took place. The Department determined NCAW totals based on assumptions on the container sizes and densities of the disposed materials.
- Figures 10-2 through 10-5 illustrate the locations of each disposal site in U.S. coastal waters.
- Figures 10-6 through 10-77 provide chemical and conventional munitions information for each disposal site. For CWM disposal sites, these figures include the distance from shore, the depth, type of chemical agent, the type of munition or container, the quantity disposed, and the NCAW. For conventional military munitions, these figures include the distance from shore; the depth; the type of munition or container; the fill type (e.g., explosive, smoke); and the quantity. These figures also report disposals that involved

empty munition bodies (e.g., bombs, projectiles) and other DoD materials of interest (e.g., low-level radioactive material, drums of chemicals, contaminated soil) co-disposed with conventional and chemical military munitions.

## Stakeholder Involvement

DoD communicates the results of its archival research to the U.S. Coast Guard, the National Oceanic and Atmospheric Administration (NOAA), and other federal agencies. Further, DoD uses the archival research to identify sites for further research concerning the potential risk to the public and marine environments posed by sea disposed munitions.

The research and safety materials distributed by DoD and NOAA are available to commercial and recreational interests. The safety materials provide information on identifying these hazards, what to do if found, and who to contact. For more information on explosives safety, see <http://www.denix.osd.mil/uxosafety>.

Figure 10-2 Approximate Locations of Munitions Disposals in U.S. Northeast

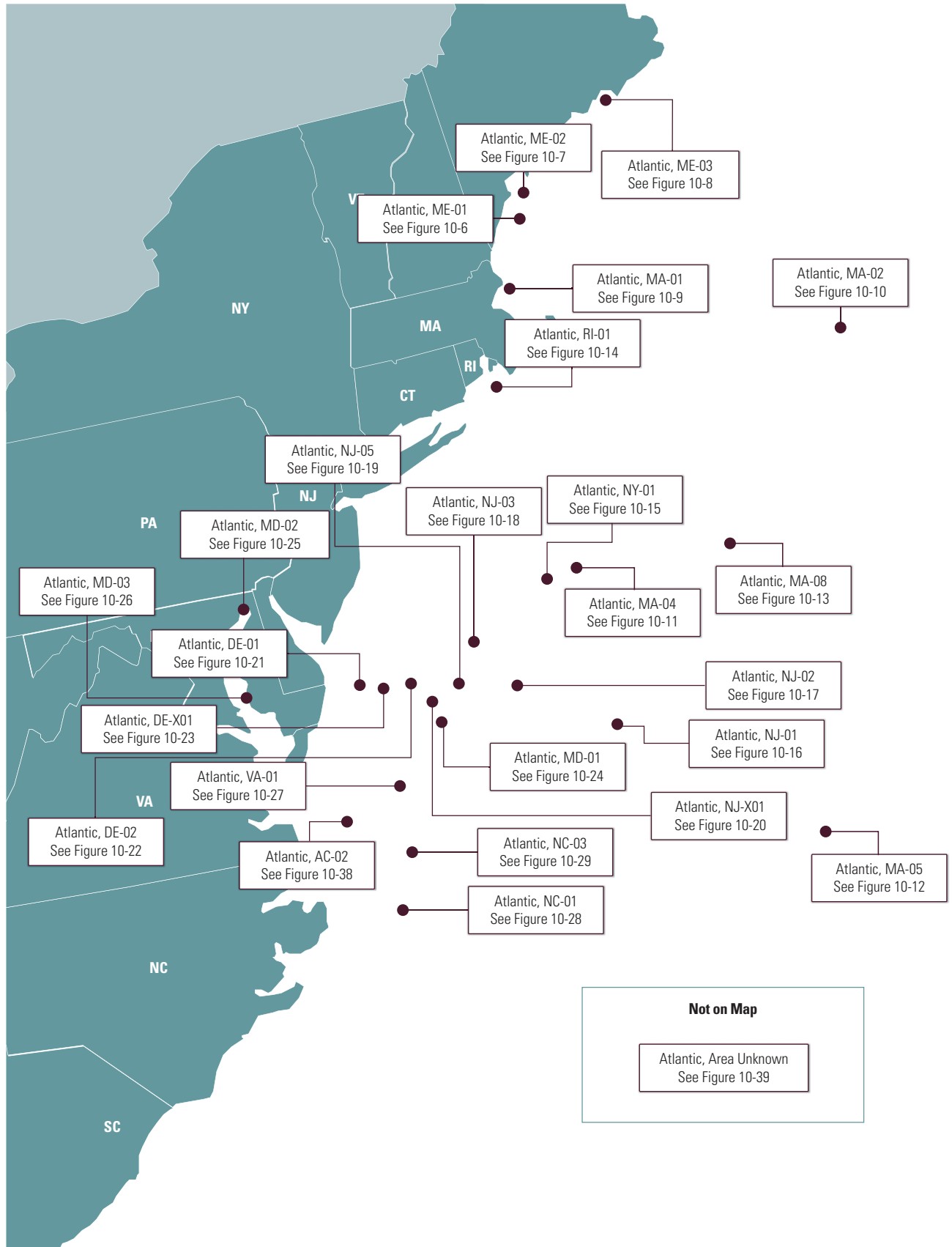


Figure 10-3 Approximate Locations of Munitions Disposals in U.S. Southeast

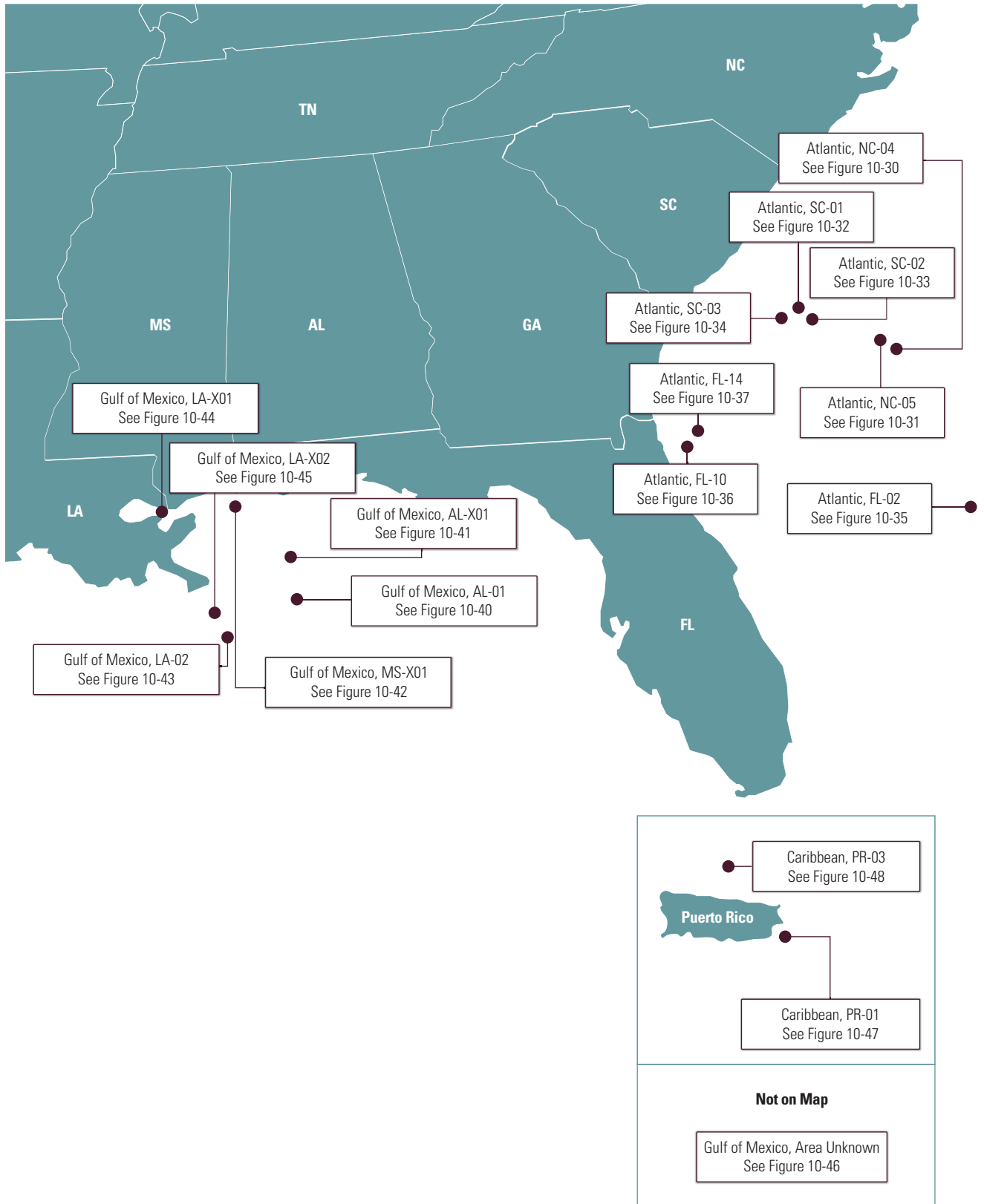


Figure 10-4 Approximate Locations of Munitions Disposals in U.S. West

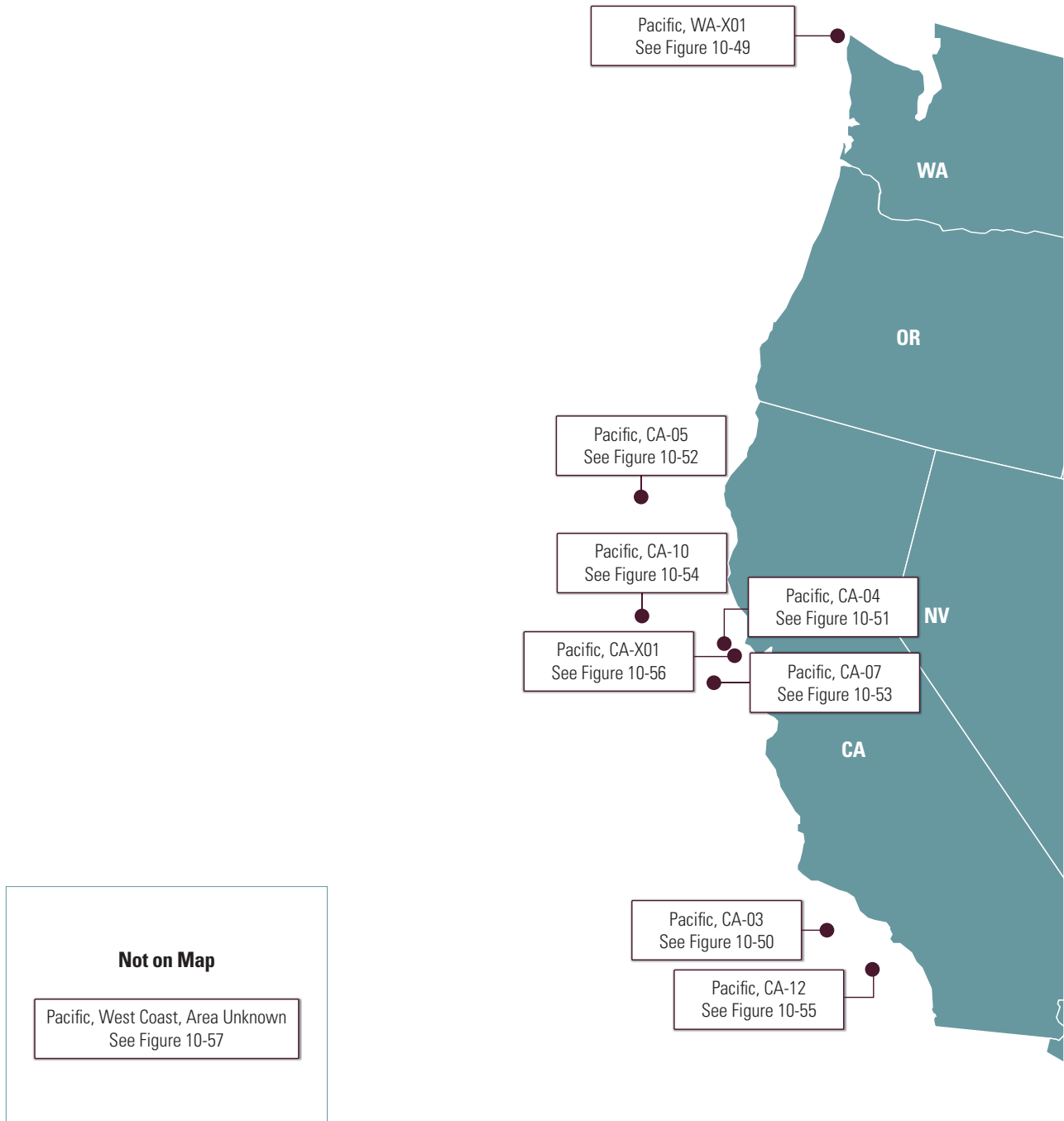
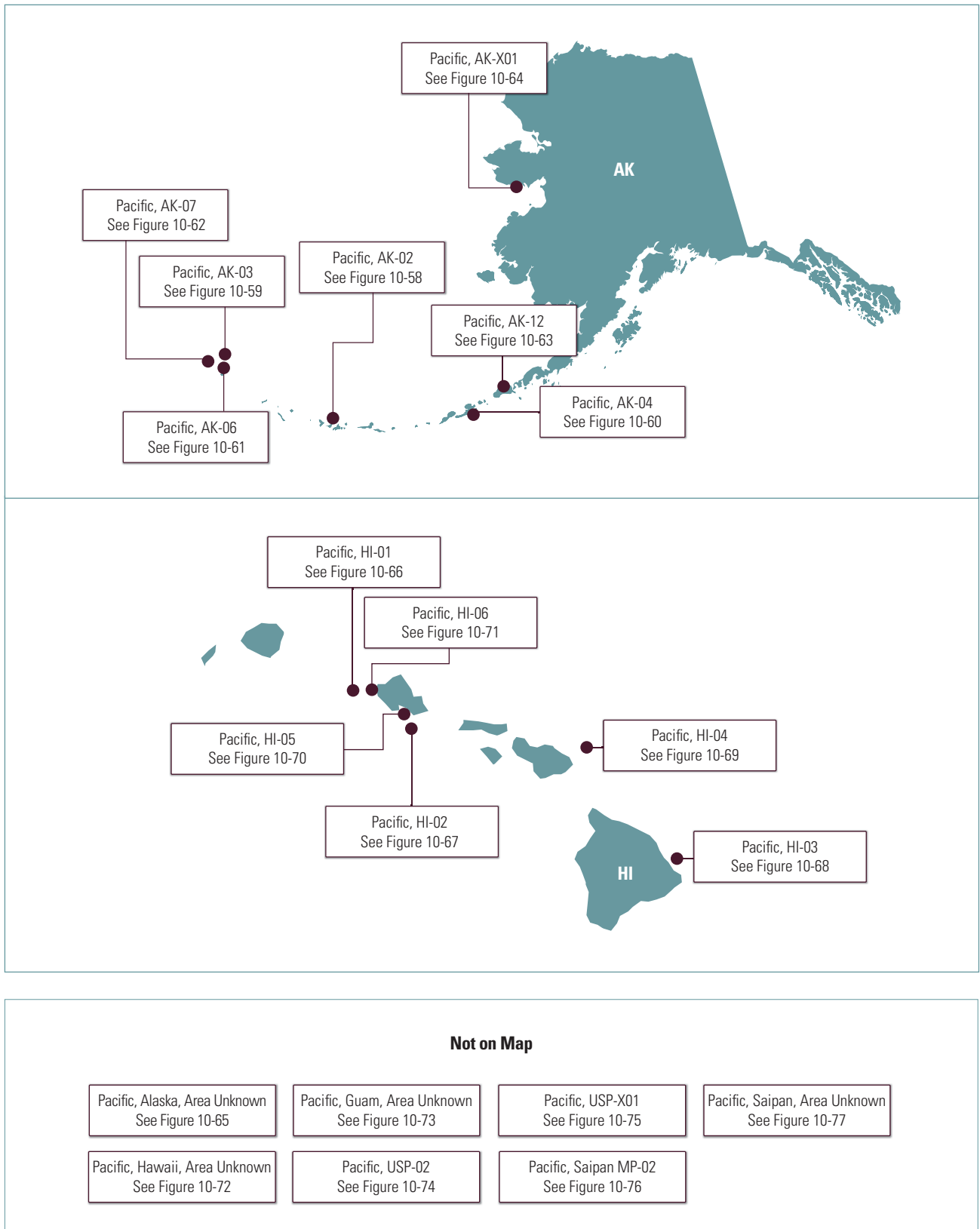


Figure 10-5 Approximate Locations of Munitions Disposals in Alaska and Hawaii



**Figure 10-6** U.S. Waters—Atlantic, ME-01 Detail of Other Materials Disposed

Distance from Shore (nautical miles): 11  
 Depth (feet): Greater than 300

Other Materials Disposed					
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Unknown*	Ordnance	N/A	Unknown	N/A	N/A

\* The documentation is unclear as to the nature of the material disposed.

**Figure 10-7** U.S. Waters—Atlantic, ME-02 Detail of Other Materials Disposed

Distance from Shore (nautical miles): 10  
 Depth (feet): Greater than 300

Other Materials Disposed					
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Explosive	2.25 inch Rocket	Each	7	N/A	N/A
Explosive	Rocket Motor	Each	5	N/A	N/A
Explosive	Bomb, Depth	Each	108	N/A	N/A
Explosive	Fuze	Each	69	N/A	N/A

**Figure 10-8** U.S. Waters—Atlantic, ME-03 (Penobscot Bay) Detail of CWC Schedule Disposals

Distance from Shore (nautical miles): 1  
 Depth (feet): Greater than 200

CWC Schedule Disposals					
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Mustard	55 gal Drum	Each	4	555	1
<b>Mustard Total</b>					<b>1</b>

**Figure 10-9** U.S. Waters—Atlantic, MA-01 Detail of Other Materials Disposed

Distance from Shore (nautical miles): 9  
 Depth (feet): Greater than 200

Other Materials Disposed					
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Small Arms	Small Arms Ammunition	Each	5,500	N/A	N/A
Explosive	20 mm Projectile	Each	10	N/A	N/A
Explosive	40 mm Projectile	Each	14	N/A	N/A
Explosive	75 mm Projectile	Each	8	N/A	N/A
Explosive	3"/50 Projectile	Each	1	N/A	N/A
Explosive	81 mm Mortar	Each	4	N/A	N/A
Explosive	7.2 inch Rocket	Each	4	N/A	N/A
Explosive	Booster	Each	6	N/A	N/A
Explosive	Detonator	Each	51	N/A	N/A
Explosive	Fuze	Each	74	N/A	N/A
Propellant	Propellent, Mortar	Each	24	N/A	N/A
Pyrotechnic	Flare, German Pistol	Each	100	N/A	N/A
Pyrotechnic	Signal	Each	2	N/A	N/A
Pyrotechnic	Tracers	Each	144	N/A	N/A
Smoke (HC)	Grenade	Each	1	N/A	N/A
Smoke	Smoke Float	Each	6	N/A	N/A



**Figure 10-9 , cont.** U.S. Waters—Atlantic, MA-01 Detail of Other Materials Disposed

Other Materials Disposed					
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Inert	37 mm Projectile	Each	1	N/A	N/A
Unknown	Bomb Disposal Kit	Each	1	N/A	N/A
Unknown	Submarine Sounding Device, German	Each	12	N/A	N/A

**Figure 10-10** U.S. Waters—Atlantic, MA-02 Detail of Other Materials Disposed\*

Distance from Shore (nautical miles): 105  
 Depth (feet): Greater than 4,500

Other Materials Disposed					
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Small Arms	Small Arms Ammunition	Each	22,000	N/A	N/A
Explosive	3.25 inch Rocket	Each	36	N/A	N/A
Explosive	7.2 inch Rocket	Each	65	N/A	N/A
Explosive	Rocket	Ton, Short	34	N/A	N/A
Explosive	Bomb, Unspecified	Ton, Short	1,297	N/A	N/A
Explosive	Ammunition & Explosive	N/A	Unknown	N/A	N/A
Pyrotechnic	Flare	Each	48	N/A	N/A
Pyrotechnic	Signal	Each	776	N/A	N/A
Smoke (FS)	750 lb Drum	Each	200	N/A	N/A

\* This site lies outside of the U.S. Exclusive Economic Zone and is included for informational purposes only.

**Figure 10-11** U.S. Waters—Atlantic, MA-04 Detail of Other Materials Disposed

Distance from Shore (nautical miles): 85  
 Depth (feet): Greater than 4,000

Other Materials Disposed					
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Explosive	Ammunition, Unspecified	Ton, Short	433	N/A	N/A

**Figure 10-12** U.S. Waters—Atlantic, MA-05 Detail of Other Materials Disposed\*

Distance from Shore (nautical miles): 215  
 Depth (feet): Greater than 13,500

Other Materials Disposed					
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Explosive	Ammunition, Unspecified	N/A	Unknown	N/A	N/A

\* This site lies outside of the U.S. Exclusive Economic Zone and is included for informational purposes only.

**Figure 10-13** U.S. Waters—Atlantic, MA-08 Detail of Other Materials Disposed

Distance from Shore (nautical miles): 110  
 Depth (feet): Greater than 7,000

Other Materials Disposed					
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Explosive	Ammunition, Unspecified	N/A	Unknown	N/A	N/A

**Figure 10-14** U.S. Waters—Atlantic, RI-01 Detail of Other Materials Disposed

Distance from Shore (nautical miles): 15  
 Depth (feet): Greater than 100

Other Materials Disposed					
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Explosive	Fuze	Each	436	N/A	N/A

**Figure 10-15** U.S. Waters—Atlantic, NY-01 (Area A) Detail of CWC Disposals and Other Materials Disposed

Distance from Shore (nautical miles): 90  
 Depth (feet): Greater than 5,500

CWC Schedule Disposals					
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Mustard	Ton Container	Each	4,577	1,885	4,314
<b>Mustard Total</b>					<b>4,314</b>
Sarin (GB)	M55 Rocket in Concrete Vault	Each	29,280	11.4	167
Sarin (GB)	Ton Container	Each	19	1,600	15
<b>Sarin Total</b>					<b>182</b>
VX	M55 Rocket in Concrete Vault	Each	21,900	10.7	117
VX	Ton Container	Each	19	1,500	14
<b>VX Total</b>					<b>131</b>
Arsenic	30 and 50 gallon Drum or Canister	Each	60	543	16
<b>Arsenic Total</b>					<b>16</b>
Cyanide	30 and 50 gallon Drum or Canister	Each	60	176	5
<b>Cyanide Total</b>					<b>5</b>
Unknown Agent	Ton container	Each	28	1,900	27
<b>Unknown Agent Total</b>					<b>27</b>

Other Materials Disposed					
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Explosive	Ammunition, Unspecified	Ton, Short	4,313	N/A	N/A
Explosive	Ammunition, Explosives and Propellant	Ton, Net Explosive Weight	623	N/A	N/A
Riot Control (CS)	Drum	Each	15	N/A	N/A
Industrial	Caustic, Bag of	Each	88	N/A	N/A
Methyl Bromide	Cylinder	Each	4	N/A	N/A
Water-filled, Mustard-Contaminated	Ton Container	Each	3,500	N/A	N/A

New data resulted in the material reported for NY-03 in FY2008 being consolidated into another site in this report.

**Figure 10-16** U.S. Waters—Atlantic, NJ-01 Detail of CWC Schedule Disposals and Other Materials Disposed

Distance from Shore (nautical miles): 200  
 Depth (feet): Greater than 13,000

CWC Schedule Disposals					
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Lewisite	Ton Container	Each	48	2,660	64
<b>Lewisite Total</b>					<b>64</b>

**Figure 10-16, cont.** U.S. Waters—Atlantic, NJ-01 Detail of CWC Schedule Disposals and Other Materials Disposed

Other Materials Disposed					
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Explosive	Ammunition, Unspecified	Ton, Short	252	N/A	N/A
Radiological	Unknown	Ton, Short	674	N/A	N/A

**Figure 10-17** U.S. Waters—Atlantic, NJ-02 (Unnamed 1) Detail of CWC Schedule Disposals and Other Materials Disposed

Distance from Shore (nautical miles): 110

Depth (feet): Greater than 9,000

CWC Schedule Disposals					
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Mustard	75 mm Projectile	Each	1,700	1.35	1
Mustard	105 mm Projectile	Each	378	3.17	1
Mustard	155 mm Projectile	Each	341	11.8	2
Mustard	Ton Container	Each	74	1,885	70
<b>Mustard Total</b>					<b>74</b>
Lewisite	150 lb Cylinder	Each	1	150	<1
Lewisite	Ton Container	Each	3	2,660	4
<b>Lewisite Total</b>					<b>4</b>
Cyanogen chloride (CK)	500 lb Bomb	Each	10	176	1
<b>Cyanogen Chloride Total</b>					<b>1</b>
Cyanide (AC)	55 gal Drum	Each	20	283	3
<b>Cyanide Total</b>					<b>3</b>

Other Materials Disposed					
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Explosive	7.2 inch Rocket	N/A	Unknown	N/A	N/A
Explosive	Mine, AT	N/A	Unknown	N/A	N/A
Explosive	Ammunition, Unspecified	Ton, Short	1,345	N/A	N/A
Explosive	Ammunition, Unspecified	N/A	Unknown	N/A	N/A
Radiological	55 gal Drum	Each	800	N/A	N/A
Radiological	Drum	Ton, Short	320	N/A	N/A
Radiological	Unknown	Pound	421,757	N/A	N/A
Riot Control (CNB)	Ton Container	Each	456	N/A	N/A
Smoke (FS)	Unknown	N/A	Unknown	N/A	N/A
Unknown	Special Weapon	Ton, Short	130	N/A	N/A
WP—White phosphorus	57 mm Projectile	Each	2,376	N/A	N/A
WP—White phosphorus	Igniter	Each	2,876	N/A	N/A
Inert Material	Inert Material	N/A	Unknown	N/A	N/A

**Figure 10-18** U.S. Waters—Atlantic, NJ-03 Detail of Other Materials Disposed

Distance from Shore (nautical miles): 90  
 Depth (feet): Greater than 5,000

Other Materials Disposed					
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Explosive	Ammunition, Unspecified	N/A	Unknown	N/A	N/A
Explosive	Ammunition, Unspecified	Ton, Short	16,532	N/A	N/A
Explosive	Ammunition, Explosives and Propellant	Ton, Net Explosive Weight	1,147	N/A	N/A
Inert	11 Ton Bomb	Each	1	N/A	N/A

**Figure 10-19** U.S. Waters— Atlantic Ocean, NJ-05 Detail of Other Materials Disposed

Distance from Shore (nautical miles): 90  
 Depth (feet): Greater than 8,000

Other Materials Disposed					
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Explosive	Ammunition, Unspecified	N/A	Unknown	N/A	N/A

**Figure 10-20** U.S. Waters—Atlantic, NJ-X01 Detail of CWC Schedule Disposals

Distance from Shore (nautical miles): 60  
 Depth (feet): Greater than 200

CWC Schedule Disposals					
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Mustard	100 lb Bomb	Each	3	74.75	<1
<b>Mustard Total</b>					<b>&lt;1</b>

**Figure 10-21** U.S. Waters—Atlantic, DE-01 Detail of Other Materials Disposed

Distance from Shore (nautical miles): 40  
 Depth (feet): Greater than 200

Other Materials Disposed					
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Explosive	Ammunition, Unspecified	Barge load	1	N/A	N/A
Smoke	Smoke Pot	N/A	Unknown	N/A	N/A

**Figure 10-22** U.S. Waters—Atlantic, DE-02 Detail of Other Materials Disposed

Distance from Shore (nautical miles): 50  
 Depth (feet): Greater than 200

Other Materials Disposed					
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Explosive	Ammunition	Ton, Short	306	N/A	N/A

**Figure 10-23** U.S. Waters—Atlantic, DE-X01 Detail of Other Materials Disposed

Distance from Shore (nautical miles): 30  
 Depth (feet): Greater than 100

Other Materials Disposed					
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Explosive	155 mm Projectile	Each	500	N/A	N/A

**Figure 10-24** U.S. Waters—Atlantic, MD-01 (Area 1) Detail of CWC Schedule Disposals and Other Materials Disposed\*

Distance from Shore (nautical miles): 75

Depth (feet): Greater than 4,500

CWC Schedule Disposals					
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Mustard	100 lb Bomb	Each	2	73	<1
<b>Mustard Total</b>					<b>&lt;1</b>
Arsenic Trichloride	55 gal Drum	Each	1,154	875	505
<b>Arsenic Trichloride Total</b>					<b>505</b>

Other Materials Disposed					
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Explosive	Ammunition, Unspecified	Ton, Short	2,712	N/A	N/A

\* Additional information has resulted in many of the items previously reported for MD-01 to being moved to other sites.

**Figure 10-25** U.S. Waters—Atlantic, MD-02 (Bush River) Detail of Other Materials Disposed

Distance from Shore (nautical miles): Less than 1

Depth (feet): Unknown

Other Materials Disposed					
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Empty	25 lb Bomb, Drop (Contained WP)	Each	102	N/A	N/A
Empty	25 lb Bomb, Drop (Contained CN in CCl4)	Each	88	N/A	N/A

**Figure 10-26** U.S. Waters—Atlantic, MD-03 (Barren Island) Detail of Other Materials Disposed

Distance from Shore (nautical miles): 2

Depth (feet): Greater than 100

Other Materials Disposed					
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Explosive	Ammunition, Unspecified	N/A	Unknown	N/A	N/A

**Figure 10-27** U.S. Waters—Atlantic, VA-01 Detail of Other Materials Disposed

Distance from Shore (nautical miles): 55

Depth (feet): Greater than 2,500

Other Materials Disposed					
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Explosive	Ammunition, Unspecified	Ton, Short	3,555	N/A	N/A
Explosive	Ammunition, Explosives and Propellant	Ton, Net Explosive Weight	876	N/A	N/A

**Figure 10-28** U.S. Waters—Atlantic, NC-01 Detail of Other Materials Disposed

Distance from Shore (nautical miles): 45

Depth (feet): Greater than 6,500

Other Materials Disposed					
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Explosive	Ammunition, Unspecified	N/A	Unknown	N/A	N/A

**Figure 10-29** U.S. Waters—Atlantic, NC-03 (Area Baker) Detail of CWC Schedule Disposals and Other Materials Disposed

Distance from Shore (nautical miles): 65

Depth (feet): Greater than 6,000

CWC Schedule Disposals					
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Mustard	4.2 inch Mortar	Each	88,032	6.5	286
<b>Mustard Total</b>					<b>286</b>

Other Materials Disposed					
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Adamsite (DM)	Smoke Candle, DM	Ton, Short	375	N/A	N/A
Explosive	Ammunition, Unspecified	Ton, Short	4,785	N/A	N/A
Explosive	Ammunition, Explosives and Propellant	Ton, Net Explosive Weight	484	N/A	N/A
Incendiary	2.36 inch Rocket	Each	8	N/A	N/A
Smoke	76 mm Projectile	Each	22,110	N/A	N/A
Smoke (HC)	76 mm Smoke Canister	Each	84	N/A	N/A
Smoke	105 mm Projectile	Each	96	N/A	N/A
Smoke (HC)	105 mm Smoke Canister	Each	55,201	N/A	N/A
Smoke	155 mm Smoke Canister	Each	544	N/A	N/A
Smoke (HC)	2.36 inch Rocket	Each	1,273	N/A	N/A
Smoke	60 mm Mortar	Each	378	N/A	N/A
Smoke (HC)	Grenade, Rifle	Each	155	N/A	N/A
Unknown	Cargo	N/A	Unknown	N/A	N/A
WP—White phosphorus	110 lb Bomb	Each	646	N/A	N/A
WP—White phosphorus	500 lb Bomb	Each	278	N/A	N/A
Decontaminating Agent, Noncorrosive (DANC)	Unknown	Pound	70,180	N/A	N/A
Other	Batteries	N/A	Unknown	N/A	N/A
Other	Various Materials	Ton, Short	160	N/A	N/A

**Figure 10-30** U.S. Waters—Atlantic, NC-04 (Area B-1) Detail of CWC Schedule Disposals and Other Materials Disposed

Distance from Shore (nautical miles): 135

Depth (feet): Greater than 4,000

CWC Schedule Disposals					
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Mustard	75 mm Projectile	Each	86	1.35	<1
Mustard	105 mm Projectile	Each	1,048	3.17	2
Mustard	155 mm Projectile	Each	968	11.8	6
Mustard	500 lb German Bomb	Each	54	220	6
Mustard	1,000 lb German Bomb	Each	98	420	21
Mustard	Bomb, Unspecified	Each	107	74.75	4
Mustard	50 lb British Mine	Each	2	12	<1
<b>Mustard Total</b>					<b>39</b>
Lewisite	115 lb Bomb	Each	31,360	83	1,301
Lewisite	115 lb Bomb	Ton, short	3,314	1,100	1,823
Lewisite	Ton Container	Each	2	2,660	3
Lewisite	Ton Container	Rail Car Load	6	26,600	80
<b>Lewisite Total</b>					<b>3,207</b>

**Figure 10-30, cont.** U.S. Waters—Atlantic, NC-04 (Area B-1) Detail of CWC Schedule Disposals and Other Materials Disposed

<b>CWC Schedule Disposals</b>					
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Phosgene (CG)	500 lb Bomb	Each	15	205	2
Phosgene (CG)	1,000 lb Bomb	Each	31	417	6
Phosgene (CG)	Bomb, Unspecified	Each	55	205	6
<b>Phosgene Total</b>					<b>14</b>
Tabun (GA)	1,000 lb German Bomb	Each	2	420	<1
<b>Tabun Total</b>					<b>&lt;1</b>

<b>Other Materials Disposed</b>					
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Small Arms	Small Arms Ammunition	Each	414	N/A	N/A
Explosive	20 mm Projectile	Each	366,899	N/A	N/A
Explosive	40 mm Projectile	Each	23,931	N/A	N/A
Explosive	100 lb Bomb	Each	1	N/A	N/A
Explosive	500 lb Bomb	Each	42	N/A	N/A
Explosive	1,000 lb Bomb	Each	7	N/A	N/A
Explosive	100 kg German Bomb	Each	6	N/A	N/A
Explosive	250 kg German Bomb, Cluster	Each	24	N/A	N/A
Explosive	500 kg German Bomb, Cluster	Each	18	N/A	N/A
Explosive	1,000 kg German Bomb	Each	25	N/A	N/A
Explosive	Bomb, Depth	Each	1,181	N/A	N/A
Explosive	7.2 inch Rocket	Each	142	N/A	N/A
Explosive	Rocket	Each	328	N/A	N/A
Explosive	Ammunition, Explosives and Propellant	Ton, Net Explosive Weight	588	N/A	N/A
Explosive	Ammunition, Unspecified	Ton, Short	2,855	N/A	N/A
Explosive	Blasting Cap	Each	12	N/A	N/A
Explosive	Booster	Each	480	N/A	N/A
Explosive	Combination Lock Primers	Each	47	N/A	N/A
Explosive	Demolition Outfit	Each	1	N/A	N/A
Explosive	Depth Charge Pistol	Each	17	N/A	N/A
Explosive	Detonator	Each	194	N/A	N/A
Explosive	Fuze	Box	622	N/A	N/A
Explosive	Fuze	Each	22,249	N/A	N/A
Explosive	Grenade, Fragmentation	Each	10	N/A	N/A
Explosive	Primer	Each	77	N/A	N/A
Explosive	Time Fuse	Foot	25	N/A	N/A
Propellant	Projector Charge	Each	8	N/A	N/A
Pyrotechnic	Depth Charge Marker	Each	226	N/A	N/A
Pyrotechnic	Flare	Each	111	N/A	N/A
Pyrotechnic	Signal	Each	5,069	N/A	N/A
Pyrotechnic	Torpedo Marker	Each	12	N/A	N/A

**Figure 10-30, cont.** U.S. Waters—Atlantic, NC-04 (Area B-1) Detail of CWC Schedule Disposals and Other Materials Disposed

Other Materials Disposed					
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Pyrotechnic	Tracer	Each	4	N/A	N/A
Riot Control (CN)	Grenade	Each	12	N/A	N/A
Smoke	Grenade, Smoke	Each	7,501	N/A	N/A
WP—White phosphorus	81 mm Mortar	Each	176	N/A	N/A
Other	Abandon Ship Kit	Each	4	N/A	N/A
Other	Guns	Each	37	N/A	N/A
Other	Small Arms Cases	Each	41	N/A	N/A

**Figure 10-31** U.S. Waters—Atlantic, NC-05 Detail of Other Materials Disposed

Distance from Shore (nautical miles): 125  
 Depth (feet): Greater than 3,000

Other Materials Disposed					
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Explosive	Ammunition, Unspecified	N/A	Unknown	N/A	N/A

**Figure 10-32** U.S. Waters—Atlantic, SC-01 Detail of Other Materials Disposed

Distance from Shore (nautical miles): 50  
 Depth (feet): Greater than 900

Other Materials Disposed					
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Small Arms	Small Arms Ammunition	Box	2	N/A	N/A
Small Arms	Small Arms Ammunition	Each	14,134	N/A	N/A
Explosive	20 mm Projectile	Box	716	N/A	N/A
Explosive	20 mm Projectile	Each	419,537	N/A	N/A
Explosive	40 mm Projectile	Box	559	N/A	N/A
Explosive	40 mm Projectile	Each	6,272	N/A	N/A
Explosive	75 mm Projectile	Box	26	N/A	N/A
Explosive	90 mm Projectile	Box	11	N/A	N/A
Explosive	105 mm Projectile	Box	1	N/A	N/A
Explosive	3"/50 Projectile	Each	447	N/A	N/A
Explosive	5"/51 Projectile	Each	408	N/A	N/A
Explosive	500 lb Bomb	Each	69	N/A	N/A
Explosive	1,000 lb Bomb	Each	126	N/A	N/A
Explosive	Bomb	Each	7	N/A	N/A
Explosive	Bomb, Depth	Each	100	N/A	N/A
Explosive	7.2 inch Rocket	Each	197	N/A	N/A
Explosive	Rocket	Each	473	N/A	N/A
Explosive	Rocket Motor	Each	121	N/A	N/A
Explosive	Rocket Bodies	Each	40	N/A	N/A
Explosive	420 lb Depth Charge	Each	1	N/A	N/A
Explosive	500 lb Depth Charge	Each	117	N/A	N/A
Explosive	525 lb Depth Charge	Each	5	N/A	N/A
Explosive	2 lb Torpedo, IGN	Each	5	N/A	N/A
Explosive	Ammunition, Unspecified	Ton, Short	431	N/A	N/A
Explosive	Black Powder	Can	1	N/A	N/A



**Figure 10-32, cont.** U.S. Waters—Atlantic, SC-01 Detail of Other Materials Disposed

Other Materials Disposed					
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Explosive	Booster	Box	14	N/A	N/A
Explosive	Booster	Each	615	N/A	N/A
Explosive	Cartridge, Percussion	Each	119	N/A	N/A
Explosive	Detonator	Each	2,800	N/A	N/A
Explosive	Fuze	Box	551	N/A	N/A
Explosive	Fuze	Each	365,003	N/A	N/A
Explosive	Grenade	Each	5	N/A	N/A
Explosive	Primer	Box	5	N/A	N/A
Propellant	Projector Charge	Each	215	N/A	N/A
Propellant	Projector Charge Bodies	Box	14	N/A	N/A
Propellant	Projector Charge Bodies	Each	938	N/A	N/A
Propellant	Projector Charge Tail	Box	13	N/A	N/A
Propellant	Propelling Charge	Each	1,898	N/A	N/A
Pyrotechnic	Depth Charge Marker	Box	5	N/A	N/A
Pyrotechnic	Signal	Box	4	N/A	N/A
Pyrotechnic	Signal	Each	594	N/A	N/A
Pyrotechnic	Tracer	Each	97	N/A	N/A
Inert	20mm Projectile Cases	Each	159	N/A	N/A
Inert	7.2 inch Rocket	Each	45	N/A	N/A
Inert	Rocket Bodies	Each	81	N/A	N/A
Inert	Projector Charge	Each	181	N/A	N/A
Other	Ordnance Parts	Box	27	N/A	N/A

**Figure 10-33** U.S. Waters—Atlantic, SC-02 Detail of Other Materials Disposed

Distance from Shore (nautical miles): 70  
 Depth (feet): Greater than 1,000

Other Materials Disposed					
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Explosive	150 lb Bomb	Each	5,000	N/A	N/A

**Figure 10-34** U.S. Waters—Atlantic, SC-03 Detail of Other Materials Disposed

Distance from Shore (nautical miles): 55  
 Depth (feet): Greater than 700

Other Materials Disposed					
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Explosive	30 lb Bomb, Fragmentation	Each	14,481	N/A	N/A

**Figure 10-35** U.S. Waters—Atlantic, FL-02 (Unnamed 4) Detail of CWC Disposals and Other Materials Disposed\*

Distance from Shore (nautical miles): 245  
 Depth (feet): Greater than 16,500

CWC Schedule Disposals					
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Mustard	75 and 155 mm Projectiles	Rail car load	62	20,000	620
Mustard, HN	Ton Container	Each	63	1,800	57
<b>Mustard Total</b>					<b>677</b>

**Figure 10-35, cont.** U.S. Waters—Atlantic, FL-02 (Unnamed 4) Detail of CWC Disposals and Other Materials Disposed\*

CWC Schedule Disposals					
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Lewisite	Ton Container	Each	1,507	2,660	2,004
Lewisite	Ton Container	Ton, Short	4,486	2,000	4,486
<b>Lewisite Total</b>					<b>6,490</b>
Sarin (GB)	155 mm Projectile	Each	3	6.5	<1
Sarin (GB)	Rocket, Chemical	Each	12,508	11.4	71
<b>Sarin Total</b>					<b>71</b>
VX	Mine, Land, Chemical	Each	1	10.5	<1
<b>VX Total</b>					<b>&lt;1</b>

Other Materials Disposed					
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Incendiary	500 lb Bomb	Each	60	N/A	N/A
Unknown	Experimental Munition	N/A	Unknown	N/A	N/A

\* This site lies outside of the U.S. Exclusive Economic Zone and is included for informational purposes only.

**Figure 10-36** U.S. Waters—Atlantic, FL-10 Detail of Other Materials Disposed

Distance from Shore (nautical miles): 20

Depth (feet): Greater than 70

Other Materials Disposed					
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Explosive	500 lb Bomb	Each	1	N/A	N/A

**Figure 10-37** U.S. Waters—Atlantic, FL-14 Detail of Other Materials Disposed

Distance from Shore (nautical miles): 30

Depth (feet): Greater than 90

Other Materials Disposed					
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Explosive	1,000 lb Bomb	Each	7	N/A	N/A

**Figure 10-38** U.S. Waters—Atlantic, AC-02 (U.S.S. Elinor) Detail of CWC Schedule Disposals

Distance from Shore (nautical miles): Greater than 40

Depth (feet): Greater than 100

CWC Schedule Disposals					
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Unknown Agent	Bulk Container and 75 mm Projectiles	Each	2,460	400	492
<b>Unknown Agent Total</b>					<b>492</b>

**Figure 10-39** U.S. Waters—Atlantic, Area Unknown Detail of CWC Schedule Disposals and Other Materials Disposed

Distance from Shore (nautical miles): Unknown

Depth (feet): Unknown

CWC Schedule Disposals					
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Mustard	105 mm Projectile	Each	8	3.17	<1
Mustard	100 lb Bomb	Each	58	74.75	2
<b>Mustard Total</b>					<b>2</b>

Figure 10-39, cont. U.S. Waters—Atlantic, Area Unknown Detail of CWC Schedule Disposals and Other Materials Disposed

CWC Schedule Disposals					
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Lewisite	55 gal Drum	Each	364	780	142
<b>Lewisite Total</b>					<b>142</b>
Phosgene (CG)	Cylinder	Ton, Short	20	2,000	20
<b>Phosgene Total</b>					<b>20</b>
Sulfur Monochloride	Drum	Each	45	704	16
<b>Sulfur Monochloride Total</b>					<b>16</b>
Unknown Agent	105 mm Projectile	N/A	Unknown	N/A	N/A
Unknown Agent	100 lb Bomb	N/A	Unknown	N/A	N/A
Unknown Agent	Unknown	N/A	Unknown	N/A	N/A
Unknown Agent	Stokes and Livens Ammunition	Ton	900	500	225
<b>Unknown Agent Total</b>					<b>225</b>

Other Materials Disposed					
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Small Arms	Small Arms Ammunition	Each	26,800	N/A	N/A
Small Arms	Small Arms Ammunition	Case	174	N/A	N/A
Explosive	20 mm Projectile	Box	551	N/A	N/A
Explosive	20 mm Projectile	Each	13,001	N/A	N/A
Explosive	37 mm Projectile	Each	12	N/A	N/A
Explosive	40 mm Projectile	Box	321	N/A	N/A
Explosive	40 mm Projectile	Each	11,183	N/A	N/A
Explosive	135 mm German Projectile	N/A	Unknown	N/A	N/A
Explosive	170 mm German Projectile	N/A	Unknown	N/A	N/A
Explosive	3 inch Projectile	Each	2	N/A	N/A
Explosive	4.7 inch Projectile	Each	9,464	N/A	N/A
Explosive	6 inch Projectile	Each	794	N/A	N/A
Explosive	7 inch Projectile	Each	1	N/A	N/A
Explosive	8 inch Projectile	Each	13,411	N/A	N/A
Explosive	9.2 inch Projectile	Each	30,698	N/A	N/A
Explosive	10 inch Projectile	Each	1	N/A	N/A
Explosive	1.1"/75 Projectile	Box	123	N/A	N/A
Explosive	1.1"/75 Projectile	Each	21	N/A	N/A
Explosive	3"/23 Projectile	Each	3,017	N/A	N/A
Explosive	3"/50 Projectile	Each	1,480	N/A	N/A
Explosive	4"/40 Projectile	N/A	Unknown	N/A	N/A
Explosive	4"/50 Projectile	Each	583	N/A	N/A
Explosive	5"/38 Projectile	Each	46	N/A	N/A
Explosive	5"/51 Projectile	Each	2,442	N/A	N/A
Explosive	1 Pounder Projectile	Each	2,303	N/A	N/A
Explosive	3 Pounder Projectile	Each	29,157	N/A	N/A
Explosive	6 Pounder Projectile	Each	3,692	N/A	N/A
Explosive	12 lb Projectile Case, British	Each	40	N/A	N/A
Explosive	35 lb Projectile, British	Each	25	N/A	N/A
Explosive	Projectile, Unknown	Each	1,408	N/A	N/A

Figure 10-39, cont. U.S. Waters—Atlantic, Area Unknown Detail of CWC Schedule Disposals and Other Materials Disposed

Other Materials Disposed					
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Explosive	Projectile, Mixed	Ton, Short	200	N/A	N/A
Explosive	81 mm Mortar	Each	8	N/A	N/A
Explosive	150 lb Bomb	Each	3,000	N/A	N/A
Explosive	260 lb Bomb	Each	970	N/A	N/A
Explosive	500 lb Bomb	Each	98	N/A	N/A
Explosive	1,000 lb Bomb	Each	85	N/A	N/A
Explosive	Bomb, Depth	Each	201	N/A	N/A
Explosive	Bomb, Ground	Each	200	N/A	N/A
Explosive	320 lb Depth Charge	Each	73	N/A	N/A
Explosive	340 lb Depth Charge	Each	473	N/A	N/A
Explosive	420 lb Depth Charge	Each	639	N/A	N/A
Explosive	Depth Charge	Each	198	N/A	N/A
Explosive	7.2 inch Rocket	Each	560	N/A	N/A
Explosive	Rocket Motor No 1, British	Each	474	N/A	N/A
Explosive	Ammunition, Unspecified	Barge load	2	N/A	N/A
Explosive	Ammunition, Unspecified	Ton, Short	9,340	N/A	N/A
Explosive	Aircraft Starter Cartridges	Each	260	N/A	N/A
Explosive	Booster	Box	1	N/A	N/A
Explosive	Booster	Each	17,581	N/A	N/A
Explosive	Burster Tube	Each	100	N/A	N/A
Explosive	Demolition Blocks, TNT	Each	3	N/A	N/A
Explosive	Detonator	Each	200	N/A	N/A
Explosive	Detonators, Primers, Caps	Box	1	N/A	N/A
Explosive	Explosive, Unspecified	Barge load	1	N/A	N/A
Explosive	Explosives and Ammunition	Pound	6,700	N/A	N/A
Explosive	Fuze	Box	24	N/A	N/A
Explosive	Fuze	Each	97,877	N/A	N/A
Explosive	Fuze	Ton, Short	200	N/A	N/A
Explosive	Fuzes, Primers, Detonators	N/A	Unknown	N/A	N/A
Explosive	Grenade	Each	502	N/A	N/A
Explosive	Grenade, Rifle	Ton, Short	108	N/A	N/A
Explosive	Mine, AT	Each	9	N/A	N/A
Explosive	Non-Toxic Gas and Smoke-Filled Ammunition, Explosive Components	Ton, Short	450	N/A	N/A
Explosive	Primer	Each	542	N/A	N/A
Explosive	Torpedo Shells	N/A	Unknown	N/A	N/A
Explosives, Bulk	Picric Acid and TNT	Rail car load	228	N/A	N/A
Propellant	Propellant Charge	Each	9,960	N/A	N/A
Pyrotechnic	Flare	Each	1,317	N/A	N/A
Pyrotechnic	Signal	Box	1	N/A	N/A
Pyrotechnic	Signal	Each	20,363	N/A	N/A
Pyrotechnic	Tracer	Each	578	N/A	N/A
Pyrotechnic	Depth Charge Marker	Each	1	N/A	N/A
Smoke (HC)	Can	Each	12	N/A	N/A
Smoke (FM)	Drum	N/A	Unknown	N/A	N/A

**Figure 10-39, cont.** U.S. Waters—Atlantic, Area Unknown Detail of CWC Schedule Disposals and Other Materials Disposed

Other Materials Disposed					
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Smoke	Smoke Float	Each	22	N/A	N/A
Smoke	Smoke Pot	Each	61	N/A	N/A
CAIS	Set, Chemical Agent Identification	Each	200	N/A	N/A
Riot Control (KJ)	Grenade, Hand	N/A	Unknown	N/A	N/A
Riot Control (CN-DM)	Grenade	Each	230	N/A	N/A
Riot control (CN)	Grenade	Each	65	N/A	N/A
Riot control (CN)	Capsule	Each	7,875	N/A	N/A
WP—White phosphorus	Grenade	Case	10	N/A	N/A
Inert	40 mm Projectile	Each	8	N/A	N/A
Empty	Projectile Case	Each	262	N/A	N/A
Unknown	S.T.D.F.	Each	883	N/A	N/A

**Figure 10-40** U.S. Waters—Gulf of Mexico, AL-01 Detail of Other Materials Disposed

Distance from Shore (nautical miles): 80  
 Depth (feet): Greater than 5,500

Other Materials Disposed					
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Riot Control (CNS)	4.2 inch Mortar	Barge load	1	N/A	N/A
Unknown	Chemicals or Ordnance	N/A	Unknown	N/A	N/A

The documentation is unclear as to the nature of the material disposed.

**Figure 10-41** U.S. Waters—Gulf of Mexico, AL-X01 (Mobile) Detail of CWC Schedule Disposals

Distance from Shore (nautical miles): 11  
 Depth (feet): Greater than 60

CWC Schedule Disposals					
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Mustard	1,000 lb German Bomb	Each	30	420	6
Mustard	500 lb German Bomb	Each	3	220	<1
<b>Mustard Total</b>					<b>7</b>

**Figure 10-42** U.S. Waters—Gulf of Mexico, MS-X01 (Horn island) Detail of Other Materials Disposed

Distance from Shore (nautical miles): 2  
 Depth (feet): Greater than 30

Other Materials Disposed					
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Empty	500 kg Bomb Debris	Each	5	N/A	N/A

**Figure 10-43** U.S. Waters—Gulf of Mexico, LA-02 Detail of Other Materials Disposed

Distance from Shore (nautical miles): 30  
 Depth (feet): 2,500

Other Materials Disposed					
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Explosive	Ammunition, Unspecified	N/A	Unknown	N/A	N/A

**Figure 10-44** U.S. Waters—Gulf of Mexico, LA-X01 (Braithwaite) Detail of CWC Schedule Disposals

Distance from Shore (nautical miles): Less than 1  
 Depth (feet): Greater than 50

CWC Schedule Disposals					
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Mustard	100 lb Bomb	Each	20	74.75	1
<b>Mustard Total</b>					<b>1</b>
Unknown Agent	Bomb	Each	2	N/A	N/A
<b>Unknown Agent Total</b>					<b>N/A</b>

**Figure 10-45** U.S. Waters—Gulf of Mexico, LA-X02 Detail of CWC Schedule Disposals

Distance from Shore (nautical miles): 50  
 Depth (feet): Unknown

CWC Schedule Disposals					
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Mustard	100 lb Bomb	Each	1	74.75	<1
<b>Mustard Total</b>					<b>&lt;1</b>

**Figure 10-46** U.S. Waters—Gulf of Mexico, Area Unknown Detail of CWC Schedule Disposals and Other Materials Disposed

Distance from Shore (nautical miles): Unknown  
 Depth (feet): Unknown

CWC Schedule Disposals					
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Mustard	126 lb Bomb	Each	2	59	<1
<b>Mustard Total</b>					<b>&lt;1</b>
Phosgene (CG)	500 lb Bomb	Each	1	205	<1
Phosgene (CG)	1,000 lb Bomb	Each	1	417	<1
Phosgene (CG)	250 kg German Bomb	Each	2	240	<1
Phosgene (CG)	500 kg German Bomb	Each	1	475	<1
<b>Phosgene Total</b>					<b>1</b>
Unknown Agent	Ammunition, Unspecified	Ton, Short	921	400	184
<b>Unknown Agent Total</b>					<b>184</b>

**Other Materials Disposed**

Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Small Arms	Small Arms Ammunition	N/A	Unknown	N/A	N/A

**Figure 10-47** U.S. Waters—Caribbean, PR-01 (Puerto Rico, Vieques) Detail of CWC Schedule Disposals and Other Materials Disposed

Distance from Shore (nautical miles): 10  
 Depth (feet): Greater than 2,000

CWC Schedule Disposals					
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Mustard	4.2 inch Mortar	Each	16	6	<1
Mustard-Q Mix (HQ)	4.2 inch Mortar	Each	18	6	<1
Mustard-T Mix (HT)	4.2 inch Mortar	Each	34	5.75	<1
<b>Mustard Total</b>					<b>&lt;1</b>

**Figure 10-47, cont.** U.S. Waters—Caribbean, PR-01 (Puerto Rico, Vieques) Detail of CWC Schedule Disposals and Other Materials Disposed

CWC Schedule Disposals					
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Cyanogen Chloride (CK)	115 lb Bomb	Each	124	51.8	3
Cyanogen Chloride (CK)	500 lb Bomb	Each	29	176	3
Cyanogen Chloride (CK)	1,000 lb Bomb	Each	8	351	1
<b>Cyanogen Chloride Total</b>					<b>7</b>
Tabun (GA)	4.2 inch Mortar	Each	1,842	4.2	4
Tabun (GA)	250 kg German Bomb	Each	110	206	11
<b>Tabun Total</b>					<b>15</b>

Other Materials Disposed					
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Explosive	Fuze	Each	25	N/A	N/A
Smoke (FS)	4.2 inch Mortar	Each	6	N/A	N/A
Empty	4.2 inch Mortar	Each	467	N/A	N/A
Empty	100 lb Bomb	Each	50	N/A	N/A
Empty	115 lb Bomb	Each	238	N/A	N/A
Empty	126 lb Bomb	Each	40	N/A	N/A
Empty	500 lb Chemical Drum	Each	12	N/A	N/A

**Figure 10-48** U.S. Waters—Caribbean, PR-03 Detail of Other Materials Disposed

Distance from Shore (nautical miles): 10

Depth (feet): Greater than 5,000

Other Materials Disposed					
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Explosive	Fuze	Each	25	N/A	N/A

**Figure 10-49** U.S. Waters—Pacific, WA-X01 Detail of Other Materials Disposed

Distance from Shore (nautical miles): 10

Depth (feet): Greater than 300

Other Materials Disposed					
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Riot Control (CN-DM)	Grenade, Irritant	Each	428	N/A	N/A

**Figure 10-50** U.S. Waters—Pacific, CA-03 Detail of Other Materials Disposed

Distance from Shore (nautical miles): 15

Depth (feet): Greater than 6,000

Other Materials Disposed					
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Explosive	20 mm Projectile	Each	6	N/A	N/A
Explosive	40 mm Projectile	Each	4	N/A	N/A

**Figure 10-51** U.S. Waters—Pacific, CA-04 Detail of Other Materials Disposed

Distance from Shore (nautical miles): 15  
 Depth (feet): Greater than 6,000

Other Materials Disposed					
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Explosive	Ammunition, Explosives and Propellant	Ton, Net Explosive Weight	236	N/A	N/A

**Figure 10-52** U.S. Waters—Pacific, CA-05 (S.S. VanZandt) Detail of Other Materials Disposed

Distance from Shore (nautical miles): 80  
 Depth (feet): Greater than 12,500

Other Materials Disposed					
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Explosive	Ammunition, Explosives and Propellant	Ton, Net Explosive Weight	1,054	N/A	N/A

**Figure 10-53** U.S. Waters—Pacific, CA-07 Detail of Other Materials Disposed

Distance from Shore (nautical miles): 40  
 Depth (feet): Greater than 6,000

Other Materials Disposed					
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Explosive	Ammunition, Unspecified	N/A	Unknown	N/A	N/A

**Figure 10-54** U.S. Waters—Pacific, CA-10 (West Coast) Detail of CWC Schedule Disposals and Other Materials Disposed

Distance from Shore (nautical miles): 95  
 Depth (feet): Greater than 13,500

CWC Schedule Disposals					
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Mustard	155 mm Projectile	Each	3	11.8	<1
Mustard	115 lb Bomb	Each	301,000	60.6	9,120
Mustard	100 lb Bomb	Each	6	74.75	<1
<b>Mustard Total</b>					<b>9,121</b>
Lewisite	Ton Container	Each	1,415	2,660	1,882
<b>Lewisite Total</b>					<b>1,882</b>

Other Materials Disposed					
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Other	Contaminated Soil with Fragments	N/A	Unknown	N/A	N/A

CA-11 was erroneously reported in FY2009. The site lies about 500 miles from the U.S. coast and is well outside U.S. coastal waters.

**Figure 10-55** U.S. Waters—Pacific, CA-12 Detail of Other Materials Disposed

Distance from Shore (nautical miles): 10  
 Depth (feet): Greater than 2,500

Other Materials Disposed					
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Explosive	.30 Cal Cartridge, Grenade	Each	95	N/A	N/A
Explosive	1.1"/75 Projectile	Each	5,918	N/A	N/A
Explosive	4"/40 Projectile	Each	1,900	N/A	N/A
Explosive	81 mm Mortar	Each	50	N/A	N/A



**Figure 10-55, cont.** U.S. Waters—Pacific, CA-12 Detail of Other Materials Disposed

Item or Fill	Other Materials Disposed				
	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Explosive	Grenade, Fragmentation	Each	13	N/A	N/A
Explosive	260 lb Bomb, Fragmentation	Each	1,387	N/A	N/A
Explosive	500 lb Bomb	Each	52	N/A	N/A
Explosive	2,000 lb Bomb	Each	14	N/A	N/A
Explosive	320 lb Depth Charge	Each	35	N/A	N/A
Explosive	420 lb Depth Charge	Each	5	N/A	N/A
Explosive	Depth Charge	Each	20	N/A	N/A
Explosive	3.25 inch Rocket	Each	1,044	N/A	N/A
Explosive	5 inch Rocket	Each	109	N/A	N/A
Explosive	7.2 inch Rocket	Each	630	N/A	N/A
Explosive	Torpedo, Warhead	Each	2	N/A	N/A
Explosive	Ammunition, Unspecified	Ton, Short	534	N/A	N/A
Explosive	Booster	Each	220	N/A	N/A
Explosive	Fuze	Each	1,480	N/A	N/A
Explosive	Igniter	Each	288	N/A	N/A
Propellant	JATO Units	Each	10	N/A	N/A
Pyrotechnic	5"/38 Projectile	Each	147	N/A	N/A
Pyrotechnic	Signal	Each	4	N/A	N/A
Inert	Fuze	Each	2	N/A	N/A
Riot Control (CN-DM)	Grenade, Irritant	Each	211	N/A	N/A
WP—White phosphorus	5"/38 Projectile	Each	1,026	N/A	N/A

**Figure 10-56** U.S. Waters—Pacific, CA-X01 (Unknown) Detail of Other Materials Disposed

Distance from Shore (nautical miles): Unknown  
 Depth (feet): Unknown

Item or Fill	Other Materials Disposed				
	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Small Arms	Small Arms Ammunition	Each	1,181	N/A	N/A
Explosive	3"/50 Projectile	Each	41	N/A	N/A
Smoke	4"/50 Projectile	Each	71	N/A	N/A
Explosive	Grenade, Fragmentation	Each	1	N/A	N/A
Explosive	Fuze	Each	601	N/A	N/A
CAIS	Set, Chemical Agent Identification	Each	7	N/A	N/A
Inert	Equipment	Each	2	N/A	N/A

**Figure 10-57** U.S. Waters—Pacific, West Coast Area Unknown Detail of Other Materials Disposed

Distance from Shore (nautical miles): Unknown  
 Depth (feet): Unknown

Item or Fill	Other Materials Disposed				
	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Small Arms	Small Arms Ammunition	Each	65,672	N/A	N/A
Explosive	20 mm Projectile	Each	2,169	N/A	N/A
Explosive	37 mm Projectile	Each	12	N/A	N/A
Explosive	40 mm Projectile	Each	1,022	N/A	N/A
Explosive	75 mm Projectile	Each	60	N/A	N/A

Figure 10-57, cont. U.S. Waters—Pacific, West Coast Area Unknown Detail of Other Materials Disposed

Other Materials Disposed					
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Explosive	105 mm Projectile	Each	37	N/A	N/A
Explosive	3 inch Projectile	Each	29	N/A	N/A
Explosive	3.2 inch Projectile	Each	1,905	N/A	N/A
Explosive	3"/50 Projectile	Each	225	N/A	N/A
Explosive	4"/40 Projectile	Each	4,631	N/A	N/A
Explosive	5"/38 Projectile	Each	357	N/A	N/A
Explosive	60 mm Mortar	Each	136	N/A	N/A
Explosive	7.2 inch Rocket	Each	102	N/A	N/A
Explosive	Bomb	Each	8	N/A	N/A
Explosive	29 lb Depth Charge	Each	11	N/A	N/A
Explosive	Ammunition, Unspecified	Ton, Short	944	N/A	N/A
Explosive	Ammunition and Powder	N/A	Unknown	N/A	N/A
Explosive	Demolition Charge	Each	8	N/A	N/A
Explosive	Fuze	Each	128	N/A	N/A
Incendiary	20 mm Projectile	Each	5	N/A	N/A
Incendiary	4 lb Bomb	Each	1,356	N/A	N/A
Incendiary	100 lb Bomb	Each	80	N/A	N/A
Pyrotechnic	20 mm Projectile	Each	15	N/A	N/A
Pyrotechnic	Bomb, Photoflash	Each	536	N/A	N/A
Pyrotechnic	Destructors	Each	405	N/A	N/A
Pyrotechnic	Signal	Each	366	N/A	N/A
Propellant	Propellant Charge	Each	61	N/A	N/A
Explosives, bulk	Black Powder/TNT	Drum	107	N/A	N/A
Other	Scrap Metal	Ton, Short	10	N/A	N/A
Other	Scrap	Barge load	1	N/A	N/A

Figure 10-58 U.S. Waters—Pacific, AK-02 (R.L. Stevenson) Detail of Other Materials Disposed

Distance from Shore (nautical miles): 15  
 Depth (feet): Greater than 2,500

Other Materials Disposed					
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Explosive	Ammunition, Explosives and Propellant	Ton, Net Explosive Weight	3,130	N/A	N/A

Figure 10-59 U.S. Waters—Pacific, AK-03 (Attu Island) Detail of CWC Schedule Disposals

Distance from Shore (nautical miles): 10  
 Depth (feet): Greater than 11,500

CWC Schedule Disposals					
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Mustard	Ton Container	Each	61	1,885	57
<b>Mustard Total</b>					<b>57</b>
Lewisite	Ton Container	Each	887	2,660	1,180
<b>Lewisite Total</b>					<b>1,180</b>

**Figure 10-60** U.S. Waters—Pacific, AK-04 Detail of Other Materials Disposed

Distance from Shore (nautical miles): 20  
 Depth (feet): Greater than 4,500

Other Materials Disposed					
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Explosive	745 lb Depth Charge	Each	100	N/A	N/A

**Figure 10-61** U.S. Waters—Pacific, AK-06 Detail of Other Materials Disposed

Distance from Shore (nautical miles): 3  
 Depth (feet): Greater than 80

Other Materials Disposed					
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Small Arms	Small Arms Ammunition	Each	30,000	N/A	N/A
Explosive	40 mm Projectile	Each	2,768	N/A	N/A
Explosive	3 inch Projectile	Each	2	N/A	N/A
Explosive	340 lb Depth Charge	Each	5	N/A	N/A
Explosives, Bulk	50 lb Box Dynamite	Each	24	N/A	N/A
Explosives, Bulk	Box Dynamite	Each	1	N/A	N/A
Pyrotechnic	Flare	Each	7	N/A	N/A

**Figure 10-62** U.S. Waters—Pacific, AK-07 Detail of Other Materials Disposed

Distance from Shore (nautical miles): 8  
 Depth (feet): Greater than 1,500

Other Materials Disposed					
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Explosive	Bombs, fuzes, pyrotechnics, powder charges, small arms	Ton, Short	3	N/A	N/A

**Figure 10-63** U.S. Waters—Pacific, AK-12 Detail of Other Materials Disposed

Distance from Shore (nautical miles): Unknown  
 Depth (feet): Unknown

Other Materials Disposed					
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Explosive	100 lb Bomb	Each	237	N/A	N/A
Explosive	350 lb Bomb, Depth	Each	56	N/A	N/A
Explosive	500 lb Bomb	Each	365	N/A	N/A
Explosive	1,000 lb Bomb	Each	283	N/A	N/A
Explosive	29 lb Depth Charge	Each	48	N/A	N/A
Explosive	745 lb Depth Charge	Each	5	N/A	N/A

**Figure 10-64** U.S. Waters—Pacific, AK-X01 (Nome) Detail of Other Materials Disposed

Distance from Shore (nautical miles): 11  
 Depth (feet): Greater than 60

Other Materials Disposed					
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Small Arms	Small Arms Ammunition	Each	60,550	N/A	N/A
Explosive	37 mm Projectile	Each	80	N/A	N/A
Explosive	Mine, AT	Each	5,454	N/A	N/A
Inert	Shell, Practice	Each	33	N/A	N/A
Pyrotechnic	Signal	Each	3,784	N/A	N/A

**Figure 10-65** U.S. Waters—Pacific, Alaska Area Unknown Detail of Other Materials Disposed

Distance from Shore (nautical miles): Unknown

Depth (feet): Unknown

Other Materials Disposed					
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Small Arms	Small Arms Ammunition	Each	116,350	N/A	N/A
Small Arms	Small Arms, Japanese	Unknown	Unknown	N/A	N/A
Explosive	40 mm Projectile	Each	9,347	N/A	N/A
Explosive	3"/23 Projectile	Each	759	N/A	N/A
Explosive	4"/50 Projectile	Each	101	N/A	N/A
Explosive	5.0 inch Projectile	Each	1,663	N/A	N/A
Explosive	6 inch Projectile	Each	691	N/A	N/A
Explosive	1 Pounder Projectile	Each	157	N/A	N/A
Explosive	6 Pounder Projectile	Each	720	N/A	N/A
Explosive	Projectile	Each	1	N/A	N/A
Explosive	Grenade	Each	1,040	N/A	N/A
Explosive	1.25 inch Rocket Motor	Each	600	N/A	N/A
Explosive	2.25 inch Rocket	Each	204	N/A	N/A
Explosive	7.2 inch Rocket	Each	958	N/A	N/A
Explosive	Rocket	Each	600	N/A	N/A
Explosive	100 lb Bomb	Each	867	N/A	N/A
Explosive	500 lb Bomb	Each	497	N/A	N/A
Explosive	Bomb, Fragmentation	Each	1,227	N/A	N/A
Explosive	325 Bomb, Depth	Each	87	N/A	N/A
Explosive	350 lb Bomb, Depth	Each	559	N/A	N/A
Explosive	629 lb Bomb, Depth	Each	92	N/A	N/A
Explosive	650 lb Bomb, Depth	Each	427	N/A	N/A
Explosive	700 lb Bomb, Depth	Each	75	N/A	N/A
Explosive	300 lb Depth Charge	Each	123	N/A	N/A
Explosive	420 lb Depth Charge	Each	27	N/A	N/A
Explosive	745 lb Depth Charge	Each	16	N/A	N/A
Explosive	Depth Charge Case	Each	15	N/A	N/A
Explosive	Ammunition, Unspecified	Ton, Short	4,625	N/A	N/A
Explosive	Aircraft Starter Cartridges	Each	300	N/A	N/A
Explosive	Blasting Cap	Each	1,219	N/A	N/A
Explosive	Booster	Each	1,061	N/A	N/A
Explosive	Fuze	Each	18,987	N/A	N/A
Explosive	JATO Igniters	Each	105	N/A	N/A
Explosive	Prima Cord	Foot	1,675	N/A	N/A
Explosive	Primer	Each	566	N/A	N/A
Explosive	Torpedo Warhead	Each	4	N/A	N/A
Explosive	Torpedo, Bangalore	Each	2,254	N/A	N/A
Explosive	1/2 lb Demolition Block	Pound	520	N/A	N/A
Explosives, Bulk	Cratering Explosives	Pound	26,880	N/A	N/A
Explosives, Bulk	Dynamite	Case	700	N/A	N/A
Explosives, Bulk	Dynamite	Pound	46,800	N/A	N/A
Incendiary	Destructors	Each	473	N/A	N/A

**Figure 10-65, cont.** U.S. Waters—Pacific, Alaska Area Unknown Detail of Other Materials Disposed

Other Materials Disposed					
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Incendiary	50 lb Thermite Charge	Each	1	N/A	N/A
Propellant	Propelling Charge	Each	1,554	N/A	N/A
Pyrotechnic	Flare	Each	2,962	N/A	N/A
Pyrotechnic	Signal	Each	5,357	N/A	N/A
Smoke (FS)	55 gal Drum	Pound	22,506	N/A	N/A
Inert	7.2 inch Rocket	Each	4	N/A	N/A

**Figure 10-66** U.S. Waters—Pacific, HI-01 (Oahu Area 1) Detail of CWC Schedule Disposals and Other Materials Disposed

Distance from Shore (nautical miles): 11

Depth (feet): Greater than 6,000

CWC Schedule Disposals					
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Mustard	75 mm Projectile	Each	2,440	1.35	2
Mustard	105 mm Projectile	Each	21,408	3.17	34
Mustard	155 mm Projectile	Each	1,747	11.43	10
Mustard	155 mm Projectile	Each	1,949	11.7	11
Mustard	155 mm Projectile	Each	595	11.8	4
Mustard	4.2 inch Mortar	Each	30,917	6.5	100
Mustard	115 lb Bomb	Each	14,956	60.6	453
Mustard	Ton Container	Each	1,038	1,885	978
<b>Mustard Total</b>					<b>1,592</b>
Lewisite	Ton Container	Each	190	2,660	253
<b>Lewisite Total</b>					<b>253</b>
Cyanogen Chloride (CK)	500 lb Bomb	Each	125	176	11
Cyanogen Chloride (CK)	1,000 lb Bomb	Each	1,100	351	193
<b>Cyanogen Chloride Total</b>					<b>204</b>
Cyanide (AC)	1,000 lb Bomb	Each	20	200	2
<b>Cyanide Total</b>					<b>2</b>

Other Materials Disposed					
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Small Arms	Small Arms Ammunition	Each	4,503,100	N/A	N/A
Small Arms	Small Arms Ammunition	Ton, Short	5	N/A	N/A
Explosive	20 mm Projectile, Japanese	Each	2,552	N/A	N/A
Explosive	25 mm Projectile, Japanese	Each	3,880	N/A	N/A
Explosive	37 mm Projectile	Each	289,334	N/A	N/A
Explosive	37 mm Projectile, Practice	Each	8,360	N/A	N/A
Explosive	40 mm Projectile	Each	22,604	N/A	N/A
Explosive	57 mm Projectile, Japanese	Each	57	N/A	N/A
Explosive	70 mm Projectile, Japanese	Each	273	N/A	N/A
Explosive	75 mm Projectile	Each	339,088	N/A	N/A
Explosive	90 mm Projectile	Each	123,399	N/A	N/A
Explosive	105 mm Projectile	Each	14,742	N/A	N/A
Explosive	155 mm Projectile	Each	72,972	N/A	N/A

Figure 10-66, cont. U.S. Waters—Pacific, HI-01 (Oahu Area 1) Detail of CWC Schedule Disposals and Other Materials Disposed

Other Materials Disposed					
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Explosive	240 mm Projectile	Each	8,529	N/A	N/A
Explosive	12 cm Projectile, Japanese	Each	6	N/A	N/A
Explosive	15 cm Projectile, Japanese	Each	175	N/A	N/A
Explosive	3 inch Projectile	Each	13,553	N/A	N/A
Explosive	4.5 inch Projectile	Each	16,748	N/A	N/A
Explosive	8 inch Projectile	Each	1,937	N/A	N/A
Explosive	81 mm Mortar, Japanese	Each	132	N/A	N/A
Explosive	90 mm Mortar, Japanese	Each	22	N/A	N/A
Explosive	12 inch Mortar	Each	769	N/A	N/A
Explosive	2.25 inch Rocket	Each	7,446	N/A	N/A
Explosive	2.36 inch Rocket	Each	243	N/A	N/A
Explosive	3.25 inch Rocket	Each	902	N/A	N/A
Explosive	4.5 inch Rocket	Each	85,564	N/A	N/A
Explosive	7.2 inch Rocket	Each	14,118	N/A	N/A
Explosive	8 inch Rocket	Each	248	N/A	N/A
Explosive	Rocket Motor	Each	1	N/A	N/A
Explosive	1/3 kg Bomb, Japanese	Each	1	N/A	N/A
Explosive	1,000 lb Bomb	Each	1,778	N/A	N/A
Explosive	Grenade, Japanese	Each	11,120	N/A	N/A
Explosive	Grenade, Rifle	Each	27,250	N/A	N/A
Explosive	Mine, AT	Each	440,885	N/A	N/A
Explosive	Mine, AT	Ton, Short	55	N/A	N/A
Explosive	Mine, Japanese	Each	285	N/A	N/A
Explosive	Ammunition, Unspecified	Barge load	17	N/A	N/A
Explosive	Ammunition, Unspecified	Ton, Short	132	N/A	N/A
Explosive	Fuze	Each	43,173	N/A	N/A
Explosive	Horns, chemical for beach mines	Each	50	N/A	N/A
Explosive	Primer	Each	76,676	N/A	N/A
Explosives, Bulk	Black Powder	Ton, Short	5	N/A	N/A
Incendiary	Igniter Pull	Each	200	N/A	N/A
Propellant	Propelling Charge	Each	978	N/A	N/A
WP—White phosphorus	75 mm Projectile	Each	8	N/A	N/A
Inert	Battery switches and booster cups for mines	Each	30	N/A	N/A
Inert	Fuze parts	Each	2,989	N/A	N/A

Figure 10-67 U.S. Waters—Pacific, HI-02 (Oahu Area 2) Area Detail of CWC Schedule Disposals and Other Materials Disposed

Distance from Shore (nautical miles): 10  
 Depth (feet): Greater than 1,500

CWC Schedule Disposals					
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Mustard	75 mm Projectile	Each	1,213	1.35	1
Mustard	75 mm Projectile	Each	2,151	1.04	1

**Figure 10-67, cont.** U.S. Waters—Pacific, HI-02 (Oahu Area 2) Area Detail of CWC Schedule Disposals and Other Materials Disposed

CWC Schedule Disposals					
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Mustard	105 mm Projectile	Each	24,084	3.17	38
Mustard	155 mm Projectile	Each	868	11.7	5
<b>Mustard Total</b>					<b>45</b>

Other Materials Disposed					
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Small Arms	Small Arms Ammunition	Each	28,600	N/A	N/A
Explosive	37 mm Projectile	Each	12,882	N/A	N/A
Explosive	70 mm Projectile	Each	6	N/A	N/A
Explosive	75 mm Projectile	Each	62,587	N/A	N/A
Explosive	105 mm Projectile	Each	34	N/A	N/A
Explosive	8 cm Projectile, Japanese	Each	25	N/A	N/A
Explosive	15 cm Projectile, Japanese	Each	3	N/A	N/A
Explosive	1,400 lb Projectile	Each	144	N/A	N/A
Explosive	1,560 lb Projectile	Each	383	N/A	N/A
Explosive	Grenade, Japanese	Each	80	N/A	N/A
Explosive	50 mm Mortar Grenade, Japanese	Each	1,060	N/A	N/A
Explosive	81 mm Mortar, Japanese	Each	411	N/A	N/A
Explosive	Bangalore Torpedo	Each	4	N/A	N/A
Explosive	Ammunition, Unspecified	N/A	Unknown	N/A	N/A
Explosive	Fuze, Japanese	Each	400	N/A	N/A
Explosive	Mine, AT	Each	23,964	N/A	N/A
Incendiary	Igniter Pull	Each	800	N/A	N/A
Propellant	Propellant case 12 cm Howitzer	Each	10	N/A	N/A

**Figure 10-68** U.S. Waters—Pacific, HI-03 (Hawaii) Detail of Other Materials Disposed

Distance from Shore (nautical miles): 11

Depth (feet): Greater than 6,000

Other Materials Disposed					
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Explosive	20 mm Projectile	Each	18,540	N/A	N/A

**Figure 10-69** U.S. Waters—Pacific, HI-04 (Maui) Detail of CWC Schedule Disposals

Distance from Shore (nautical miles): 10

Depth (feet): Greater than 5,500

CWC Schedule Disposals					
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Mustard	75 mm Projectile	Each	3,600	1.04	2
Mustard	105 mm Projectile	Each	801	3.17	1
<b>Mustard Total</b>					<b>3</b>

**Figure 10-70** U.S. Waters—Pacific, HI-05 (Oahu Unnamed) Detail of CWC Schedule Disposals

Distance from Shore (nautical miles): Greater than 5  
 Depth (feet): Greater than 2,000

CWC Schedule Disposals					
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Mustard	100 lb Bomb	Each	16,000	74.75	598
Mustard	Stokes Mortar	Each	12	7.5	<1
<b>Mustard Total</b>					<b>598</b>

**Figure 10-71** U.S. Waters—Pacific, HI-06 (Ordnance Reef) Detail of Other Materials Disposed

Distance from Shore (nautical miles): 1  
 Depth (feet): Greater than 25

Other Materials Disposed					
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Small Arms	Small Arms Ammunition	Each	200	N/A	N/A
Explosive	20 mm Projectile	Each	1,040	N/A	N/A
Explosive	25 mm Projectile	Each	250	N/A	N/A
Explosive	90 mm Mortar	Each	1	N/A	N/A
Explosive	105 mm Projectile	Each	152	N/A	N/A
Explosive	155 mm Projectile	Each	75	N/A	N/A
Explosive	3 to 6 inch Projectiles	Each	77	N/A	N/A
Explosive	5 to 8 inch Projectiles	Each	142	N/A	N/A
Explosive	Ammunition, Mixed	Each	108	N/A	N/A
Explosive	100 lb Bomb, Fragmentation	Each	1	N/A	N/A
Explosive	Depth Charge	Each	1	N/A	N/A
Explosive	Mine, Bottom	Each	1	N/A	N/A
Unknown	Ammunition Box	Each	29	N/A	N/A

**Figure 10-72** U.S. Waters—Pacific, Hawaii Area Unknown Detail of CWC Schedule Disposals and Other Materials Disposed

Distance from Shore (nautical miles): Unknown  
 Depth (feet): Unknown

CWC Schedule Disposals					
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Mustard	75 mm Projectile	Each	23,388	1.35	16
Mustard	155 mm Projectile	Each	243	11.41	1
Mustard	155 mm Projectile	Each	64	11.8	<1
Mustard	100 lb Bomb	Each	6	40.5	<1
Mustard	100 lb Bomb	Each	36	74.75	1
<b>Mustard Total</b>					<b>19</b>

Other Materials Disposed					
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Small Arms	Small Arms Ammunition	Each	15,740,755	N/A	N/A
Explosive	20 mm Projectile	Each	4,845,040	N/A	N/A
Explosive	37 mm Projectile	Each	294	N/A	N/A
Explosive	40 mm Projectile	Each	774	N/A	N/A
Explosive	75 mm Projectile	Each	272,173	N/A	N/A
Explosive	1.1 inch Projectile	Each	268,008	N/A	N/A
Explosive	5 inch Projectile	N/A	Unknown	N/A	N/A



Figure 10-72, cont. U.S. Waters—Pacific, Hawaii Area Unknown Detail of CWC Schedule Disposals and Other Materials Disposed

Item or Fill	Other Materials Disposed				
	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Explosive	6 inch Projectile	Each	3,505	N/A	N/A
Explosive	7 inch Projectile	N/A	Unknown	N/A	N/A
Explosive	8 inch Projectile	Each	59	N/A	N/A
Explosive	8 inch Projectile	Pallet	2	N/A	N/A
Explosive	14 inch Projectile	Each	1,528	N/A	N/A
Explosive	16 inch Projectile	Each	437	N/A	N/A
Explosive	3"/23 Projectile	Each	22,630	N/A	N/A
Explosive	3"/50 Projectile	Each	63,721	N/A	N/A
Explosive	4"/50 Projectile	Each	5,460	N/A	N/A
Explosive	5"/25 Projectile	Each	16,598	N/A	N/A
Explosive	5"/38 Projectile	Each	1,216	N/A	N/A
Explosive	5"/51 Projectile	Each	19,429	N/A	N/A
Explosive	6"/53 Projectile	Each	353	N/A	N/A
Explosive	7"/45 Projectile	Each	4,349	N/A	N/A
Explosive	1 PDR Complete and Sub Assy	Each	31,027	N/A	N/A
Explosive	3PDR Complete and Sub Assy	Each	15,380	N/A	N/A
Explosive	6 PDR Complete and Sub Assy	Each	17,961	N/A	N/A
Explosive	60 mm Mortar	Each	25	N/A	N/A
Explosive	1.25 inch Rocket	Each	175	N/A	N/A
Explosive	2.25 inch Rocket	Each	1,486	N/A	N/A
Explosive	3.0 inch Rocket	Each	116	N/A	N/A
Explosive	3.25 inch Rocket	Each	1,661	N/A	N/A
Explosive	4.5 inch Rocket	Each	47	N/A	N/A
Explosive	7 inch Rocket Body	Each	16	N/A	N/A
Explosive	Rocket	Each	762	N/A	N/A
Explosive	Rocket Motor	Each	641	N/A	N/A
Explosive	Sub-caliber rockets	Each	38	N/A	N/A
Explosive	2 lb Bombs, AA	Each	7,835	N/A	N/A
Explosive	25 lb Bomb, Fragmentation	Each	3	N/A	N/A
Explosive	350 lb Bomb, Depth	Each	19	N/A	N/A
Explosive	500 lb Bomb	Each	42	N/A	N/A
Explosive	2,000 Bomb	Each	135	N/A	N/A
Explosive	Bomb, Unspecified	Each	354	N/A	N/A
Explosive	Bomb, Depth	Each	2,568	N/A	N/A
Explosive	Bomb, Fragmentation	Each	5,049	N/A	N/A
Explosive	420 lb Depth Charge	Each	2,643	N/A	N/A
Explosive	745 lb Depth Charge	Each	4	N/A	N/A
Explosive	Depth Charge	Each	17	N/A	N/A
Explosive	Depth Charge Pistol	Each	5,128	N/A	N/A
Explosive	Aircraft Starter Cartridges	Each	4,815	N/A	N/A
Explosive	Ammunition, Unspecified	Each	215	N/A	N/A
Explosive	Ammunition, Unspecified	Barge load	1	N/A	N/A
Explosive	Ammunition, Unspecified	Ton, Short	40	N/A	N/A
Explosive	Ammunition, Unspecified	Truck Load	36	N/A	N/A

Figure 10-72, cont. U.S. Waters—Pacific, Hawaii Area Unknown Detail of CWC Schedule Disposals and Other Materials Disposed

Other Materials Disposed					
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Explosive	Cable Cutter Charge	Each	103	N/A	N/A
Explosive	Body & Tail Assembly	Each	721	N/A	N/A
Explosive	Booster	Each	1,914	N/A	N/A
Explosive	Booster Extender	Each	4,987	N/A	N/A
Explosive	Burster Charge	Each	8,518	N/A	N/A
Explosive	Demolition Charge	Each	65	N/A	N/A
Explosive	Demolition Outfit	Each	1	N/A	N/A
Explosive	Detonator	Each	209,899	N/A	N/A
Explosive	Fuze	Each	210,656	N/A	N/A
Explosive	Grenade	Each	695	N/A	N/A
Explosive	Mines with Anchor & Accessories	Each	204	N/A	N/A
Explosive	Primer	Each	873,288	N/A	N/A
Explosive	Projector Charge Bodies	Each	216	N/A	N/A
Explosive	Projector Charge Tail	Each	2	N/A	N/A
Explosive	Wrecking Charges	Each	50	N/A	N/A
Explosive	Saluting Charges	Each	12,147	N/A	N/A
Explosive	Warhead	Each	278	N/A	N/A
Explosive	1/2 lb Demolition Block	Each	203	N/A	N/A
Explosives, Bulk	Saluting Powder	Pound	9,500	N/A	N/A
Explosives, Bulk	Black Powder	Pound	5,838	N/A	N/A
Explosives, Bulk	TNT	Pound	600	N/A	N/A
Incendiary	Incendiary Cluster	Each	247	N/A	N/A
Incendiary	Igniter	Each	20	N/A	N/A
Propellant	Expelling Charge	Each	165	N/A	N/A
Propellant	Propelling Charge	Each	115,550	N/A	N/A
Propellant	Ballistic Propellent Grain	Each	1	N/A	N/A
Pyrotechnic	3"/50 Projectile	Each	52	N/A	N/A
Pyrotechnic	5"/25 Projectile	Each	242	N/A	N/A
Pyrotechnic	5"/51 Projectile	Each	1,090	N/A	N/A
Pyrotechnic	Bomb, Photoflash	Each	2	N/A	N/A
Pyrotechnic	Flare	Each	557	N/A	N/A
Pyrotechnic	Signal	Each	42,225	N/A	N/A
Pyrotechnic	Tracer	Each	37,013	N/A	N/A
Riot Control (CN-DM)	Grenade, Irritant	Each	125	N/A	N/A
Riot Control (CN)	Grenade, Irritant	Each	119	N/A	N/A
Riot Control (NC)	75 mm Projectile	Each	2	N/A	N/A
Smoke (FM)	75 mm Projectile	Each	552	N/A	N/A
Smoke (FM)	155 mm Projectile	Each	35	N/A	N/A
Smoke (FM)	3"/23 Projectile	Each	108	N/A	N/A
Smoke (HC)	3"/50 Projectile	Each	517	N/A	N/A
Smoke (FN)	4"/50 Projectile	Each	3,666	N/A	N/A
Smoke (HC)	4"/50 Projectile	Each	4	N/A	N/A
Smoke (FS)	4.5 inch Rocket	Each	104	N/A	N/A

**Figure 10-72, cont.** U.S. Waters—Pacific, Hawaii Area Unknown Detail of CWC Schedule Disposals and Other Materials Disposed

Item or Fill	Other Materials Disposed				
	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Smoke	Smoke Float	Each	51	N/A	N/A
Smoke	Smoke Pot	Each	11	N/A	N/A
Smoke (HC)	Smoke Pot	Each	46	N/A	N/A
Empty	Mine, Case	Each	2,262	N/A	N/A
Empty	Booster Case	Each	210	N/A	N/A
Inert	Dummy Drill	Each	191	N/A	N/A
Unknown	Junction Block	Each	1	N/A	N/A
Unknown	Tanks, 14-inch	Each	9	N/A	N/A

**Figure 10-73** U.S. Waters—Pacific, Guam Area Unknown Detail of Other Materials Disposed

Distance from Shore (nautical miles): Unknown

Depth (feet): Unknown

Item or Fill	Other Materials Disposed				
	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Small Arms	Small Arms Ammunition	Each	240	N/A	N/A
Explosive	20 mm Projectile	Each	39,612	N/A	N/A
Explosive	3"/50 Projectile	Each	227	N/A	N/A
Explosive	5"/38 Projectile	Each	244	N/A	N/A
Explosive	Bomb, Unspecified	Ton, Short	215	N/A	N/A
Explosive	Ammunition, Unspecified	Ton, Short	238	N/A	N/A
Smoke (HC)	3"/50 Projectile	Each	24	N/A	N/A
Smoke	Smoke Float	Each	15	N/A	N/A
Pyrotechnic	Unknown	N/A	Unknown	N/A	N/A

**Figure 10-74** U.S. Waters—Pacific, USP-02 (Unincorporated Territories, Midway Island) Detail of Other Materials Disposed

Distance from Shore (nautical miles): 11

Depth (feet): Greater than 11,000

Item or Fill	Other Materials Disposed				
	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Explosive	Mine	Each	296	N/A	N/A
Explosive	Aircraft Starter Cartridges	Each	820	N/A	N/A
Incendiary	Bomb	Each	64	N/A	N/A
Pyrotechnic	Flare	Each	20	N/A	N/A
Pyrotechnic	Signal	Each	10,019	N/A	N/A

**Figure 10-75** U.S. Waters—Pacific, USP-X01 (Unincorporated Territories, Johnston Island) Detail of Other Materials Disposed

Distance from Shore (nautical miles): Unknown

Depth (feet): Unknown

Item or Fill	Other Materials Disposed				
	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Incendiary	Bomb, Cluster	Each	3	N/A	N/A
Empty	Debris from Decontaminated M55 Rocket	Each	19	N/A	N/A

This site was reported as JI-X01 in the FY2008 report.

**Figure 10-76** U.S. Waters—Pacific, Saipan MP-02 Detail of Other Materials Disposed

Distance from Shore (nautical miles): 8  
 Depth (feet): 2,500

Other Materials Disposed					
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Explosive	Ammunition, Unspecified	Ton, Short	1,927	N/A	N/A
Other	Equipment	Ton, Short	915	N/A	N/A

**Figure 10-77** U.S. Waters—Pacific, Saipan Area Unknown Detail of Other Materials Disposed

Distance from Shore (nautical miles): 10  
 Depth (feet): Greater than 7,000

Other Materials Disposed					
Item or Fill	Munition or Container Type	Unit	Quantity	NCAW Per Unit (lbs)	Total NCAW (tons)
Explosive	25 mm Projectile, Japanese	Each	4,300	N/A	N/A
Explosive	70 mm Projectile, Japanese	Each	25	N/A	N/A
Explosive	75 mm Projectile	Each	5	N/A	N/A
Explosive	88 mm Projectile, Japanese	Each	92	N/A	N/A
Explosive	120 mm Projectile, Japanese	Each	74	N/A	N/A
Explosive	120 and 150 mm Projectile, Japanese	Each	223	N/A	N/A
Explosive	127 mm Projectile, Japanese	Each	147	N/A	N/A
Explosive	150 mm Projectile, Japanese	Each	149	N/A	N/A
Explosive	155 mm Projectile	Ton, short	118	N/A	N/A
Explosive	5 inch Projectile	Each	137	N/A	N/A
Explosive	6 inch Projectile	Each	1	N/A	N/A
Explosive	50 mm Mortar, Japanese	Each	48	N/A	N/A
Explosive	60 mm Mortar	Each	33	N/A	N/A
Explosive	81 mm Mortar, Japanese	Each	142	N/A	N/A
Explosive	20 lb Bomb	Each	2	N/A	N/A
Explosive	250 kg Bomb, Japanese	Each	1	N/A	N/A
Explosive	325 lb Bomb, Depth	Each	1	N/A	N/A
Explosive	Bomb, Unspecified	Ton, Short	900	N/A	N/A
Explosive	Bazooka	Each	6	N/A	N/A
Explosive	Grenade	Each	188	N/A	N/A
Explosive	Mine, Anti-boat, Japanese	Each	94	N/A	N/A
Explosive	Mine, Anti-vehicular, Japanese	Each	68	N/A	N/A
Explosive	Ammunition, Unspecified	Ton, Short	26	N/A	N/A
Pyrotechnic	Unknown	N/A	Unknown	N/A	N/A