



ENVIRONMENTAL PIER-SIDE  
OPERATIONS GUIDE  
FOR SHIPS  
AT  
NAVAL BASE SAN DIEGO



NBSD ENVIRONMENTAL  
WATERFRONT PROGRAM

**Sep 2019**





# TABLE OF CONTENTS

## **Section 1**

### **Overview**

Introduction .....	1-1
Acronyms & Abbreviations .....	1-1
Terms/Definitions .....	1-3

## **Section 2**

### **Environmental Management & Compliance**

Water Quality .....	2-1
UNDS Discharges .....	2-1
Prohibited Discharges .....	2-1
Ship Sewage Spills .....	2-1
Greywater Spills .....	2-2
Hazardous Waste & Materials .....	2-3
Turn - In Requirements .....	2-4
Compressed Gas Cylinders .....	2-5
Hazardous Material .....	2-5
Surplus Electronic Equipment Management .....	2-6
Oily Waste (Bilge Water) and Waste Oil .....	2-6
Hazardous Substance Spills .....	2-8
Air Quality .....	2-9
Ship Light-Off Procedures .....	2-9
Medical Wastes .....	2-10
Medical Waste Categories .....	2-10
RCRA Waste Pharmaceuticals .....	2-12
Pharmaceutical & Personal Care Products (PPCP) .....	2-13

## **Section 3**

### **Vessel Maintenance and Preservation**

Grinding, Sanding, Chipping, Welding & Surface Preparation .....	3-1
Painting .....	3-1
Adhesives .....	3-2
Ship Fresh Water Wash Downs .....	3-3
Weight Testing Water Discharges .....	3-3
General Pier Housekeeping .....	3-4
Pier-side Painting .....	3-5
Ships' Forces Recordkeeping .....	3-5
Leaking Vehicles .....	3-6
Trash & Recycling .....	3-6
Black Scrap Metal Bins .....	3-6
Guidance for Regulated (Foreign) Garbage .....	3-7
Guidance for Contractor Laydown Areas on Piers and Quay Walls .....	3-8

## **Section 4**

### **NBSD Environmental Policy**

Statement .....	4-1
-----------------	-----



## **Section 5**

### **Naval Base San Diego Points of Contact**

Contacts .....	5 -1
----------------	------

## **Appendix A**

### **Pharmaceuticals Listed**

Waste Codes for Pharmaceuticals .....	A-1
---------------------------------------	-----

## **APPENDIX B**

### **Monitored and Controlled Discharges (UNDS)**

Monitored and Controlled Discharges (UNDS) .....	B-1
--	-----

## **Appendix C**

### **NAVOSHENVNVCEN Compatibility Chart**

Chart .....	C-1
-------------	-----

## **Appendix D**

### **Regulated (Foreign) Garbage Best Management Practices**

Regulated Garbage Definition for U.S. Navy Vessels .....	D-1
Example Applications of USDA APHIS RG Regulations for U.S. Navy Vessels .....	D-1
Regulated Garbage Management/Offload Best Practices .....	D-2
Waste Management Recommendations .....	D-4
Regulated (Foreign) Garbage Ship All Hands Template .....	D-5



SECTION 1  
OVERVIEW

*(This page left blank intentionally)*

## INTRODUCTION

This document contains environmental guidance for all berthed ships at Naval Base San Diego (NBSD) providing an outline of conformance and necessary actions that will help ensure afloat units comply with government environmental regulations. If there are any questions or concerns, contact your NBSD Environmental office for additional guidance at 619-556-1537. A more extensive list of contacts is provided in Section 5.

## ACRONYMS & ABBREVIATIONS

APCD	Air Pollution Control District
APHIS	Animal and Plant Health Inspection Service
BMP	Best Management Practices
BOWTS	Bilge and Oily Wastewater Treatment System
BHW	Biological Hazardous Waste
Cal EMA	California Emergency Management Agency
CBP	U.S. Customs and Border Protection
CFR	Code of Federal Regulations
CHRIMP	Consolidated Hazardous Material Reutilization and Inventory Management Program
CHT	Collection, Holding, and Transfer
CO	Commanding Officer
CONUS	Continental United States
CUPA	Certified Unified Program Agency
DOT	U.S. Department of Transportation
EPA	U.S. Environmental Protection Agency
FF&V	Fresh Fruits and Vegetable
GRP	Guaranteed Return Program
HICSWIN	Hazardous Inventory Control System for Windows
HM	Hazardous Material
HMBP	Hazardous Materials Business Plan
HS	Hazardous Substance

HW	Hazardous Waste
IC	Incident Commander
IUDP	Industrial User Discharge Permit
IWCP	Industrial Wastewater Control Program
LSR	Logistic Support Representative
MSC	Military Sealift Command
MSW	Medical Solid Waste
MW	Medical Waste
NAVFAC	Naval Facilities Engineering Command
NBSD	Naval Base San Diego
Nm	Nautical Mile
NOSC	Navy On-scene Coordinator
NPDES	National Pollutant Discharge Elimination System
NRC	National Response Center
OHS	Oil and Hazardous Substance
PPCP	Pharmaceutical & Personal Care Products
RCRA	Resource Conservation & Recovery Act
RG	Regulated Garbage
RO	Reverse Osmosis
RQ	Reportable Quantity
RWQCB	Regional Water Quality Control Board
SPCC	Spill Prevention, Control and Countermeasure
UNDS	Uniform National Discharge Standards
USDA	U.S. Department of Agriculture
VOC	Volatile Organic Compound



## TERMS/DEFINITIONS

**Aqueous Film-Forming Foam (AFFF):** A foam concentrate consisting of fluorocarbon and hydrocarbon surfactants blended with various solvents, preservatives and stabilizers. The foam forms an aqueous film that rapidly cuts off the oxygen supply and knocks down a fire. AFFF discharges from vessels have the potential for an adverse environmental impact. AFFF is considered a polyfluoroalkyl substance (PFAS). PFAS is now identified as a HM meaning it must be managed as such.

**Bilge Water/Oil-Water Separator (OWS):** The surface vessel bilge water/OWS discharge consists of a mixture of wastewater and leakage from a variety of sources that are allowed to drain to the lowest inner part of the hull, known as the bilge. Vessels with oil content monitor (OCMs) have the capability to return bilge water not meeting a preset oil concentration limit to the OWS for reprocessing until the limit is met. Oil collected from the OWS separation process is held in a recovered oil tank until transferred to shore facilities for processing.

**Best Management Practices (BMPs):** BMPs are techniques, processes, or procedures used to prevent or reduce pollutant discharges to the environment, which includes land and surface waters. BMPs may include simple procedures for controlling pollution such as good housekeeping, spill response, spill prevention, spill reporting and equipment maintenance. BMPs may also include temporary berms around equipment, specific processes, or material storage areas.

**Clean ballast:** If discharged from a vessel that is stationary into clean, calm water on a clear day, would not –

- i. Produce visible traces of oil on the surface of the water or on adjoining shore lines; or
- ii. Cause a sludge or emulsion to be deposited beneath the surface of the water or upon adjoining shore lines; or
- iii. If verified by an approved oil discharge monitoring and control system, has an oil content that does not exceed 15 ppm.

**Collection, Holding, and Transfer (CHT):** System designed to collect both sewage and greywater while in port to offload to shore receiving facilities and to discharge both sewage and greywater overboard while operating beyond 3 Nm from shore.

**Compensated Fuel Ballast (CFB):** CFB systems are configured as a series of fuel tanks that automatically draw in seawater to replace fuel as it is consumed. This process stabilizes the vessel by using the weight of the seawater to compensate for the mass of ballast lost through fuel consumption. At NBSD, discharge of compensating water pierside while conducting in port refueling operations is authorized. There is no

requirement for a comp water barge. Notification of planned compensating water discharge shall be made to NBSD Port Operations dispatch at (619) 556-1433 no later than 48 hours in advance of the planned discharge start time.

**Corrosives:** Materials, including solids, which are acids or bases, or produce acidic or alkaline solutions.

**Dirty Ballast Water:** Ballast water, must be offloaded outside of 12 Nm from shore or transferred to shore facilities for processing.

**Discharge:** Term associated with a release to surface waters or to the sanitary sewer system. This includes any substance, material, or waste that is not specifically authorized for discharge by the NBSD NPDES or IUDP.

**Drop Cloth:** Any suitable impervious material that may be used for minimizing the quantity of pollutants released to the environment from activities that include, but are not limited to, painting, grinding, and chipping. Examples of acceptable drop cloths are canvas tarps, plastic (6mm in thickness at a minimum), and cardboard. "Butcher" paper is not allowed.

**Electronic Device:** Any item with electronic components such as transistors, semiconductors, etc. All Government surplus property including electronic devices must be managed through DLA Disposition Services San Diego (DRMO). Electronic devices are **not** to be disposed of in the trash or scrap metal bins.

**Free Liquids:** Any liquid that becomes separated from the solid portion of a substance under ambient temperature and pressure.

**Gas Turbine Water Wash:** Gas turbine water wash is generated within 12 Nm and varies by the type of gas turbine and the amount of time it is operated. Because the drain collecting system is limited in size, discharges may occur within 12 Nm. On most Navy and Military Sealift Command (MSC) gas turbine ships, gas turbine water wash is collected in a dedicated collection tank and is not discharged overboard within 12 Nm.

**On ships without a dedicated collection tank, this discharge is released as a component of deck runoff, well deck discharges, or bilge water, or transferred to shore facilities for processing.**

**Greywater:** Domestic wastewater from sinks, baths, and kitchen appliances.

**Hazardous Material (HM):** Any material that may pose a real hazard to human health or the environment due to quantity, concentration, or physical or chemical characteristics. HMs include the following categories: Flammable, Combustibles, Corrosives, Oxidizers, Aerosols, and Compressed Gases.

**Hazardous Waste (HW):** Any waste with properties that make it potentially dangerous or harmful to human health or the environment. Can be liquids, solids, contained gases, by-products of processes, or discarded used and unused HM.

**Incompatible:** The commingling of HM that may result in fire, heat, pressure, explosion, or violent reaction.

**Ignitable:** Any substance having a flash point less than 140° F or the capability of spontaneously bursting into flames (Includes Oxidizers).

**Industrial User Discharge Permit (IUDP):** Any discharger of industrial wastes into the Metropolitan sewerage system is required to obtain a permit from the City of San Diego IUDP.

**Marine Pollution Control Device (MPCD):** Any equipment or management practice designed to treat, retain or control discharges of a vessel.

**National Pollutant Discharge Elimination System (NPDES) Permit:** A federal permit system that regulates the discharge of storm water and wastewater to waters of the State. NBSD is currently regulated by a NPDES permit.

**Pharmaceuticals:** Termed also as **medicine** or **medication**, can be loosely defined as any chemical substance intended for use in the medical diagnosis, cure, treatment, or prevention of disease. A pharmaceutical may be either over the counter items, (aspirin, ointments, etc.) or any prescription medication.

**Photographic Laboratory Drains:** This is the intermittent discharge from processing photographic film. Process liquid from these activities includes used film processing chemical developers, fixer-bath solutions and film rinse water. Photographic laboratory process liquid may be generated within and beyond 12 Nm from shore, although current practice is to collect and hold onboard within 12 Nm.

**Reactive:** A substance, unstable under normal conditions, that can cause explosions, toxic fumes, gases, or vapors when heated, compressed, or mixed with water.

**Release:** An unplanned discharge of hazardous substance (HS) to the environment.

**Reportable Quantity (RQ):** The volume of a released substance that exceeds established federal reporting levels.

**Sewage (Black water):** Wastewater containing fecal matter and urine.

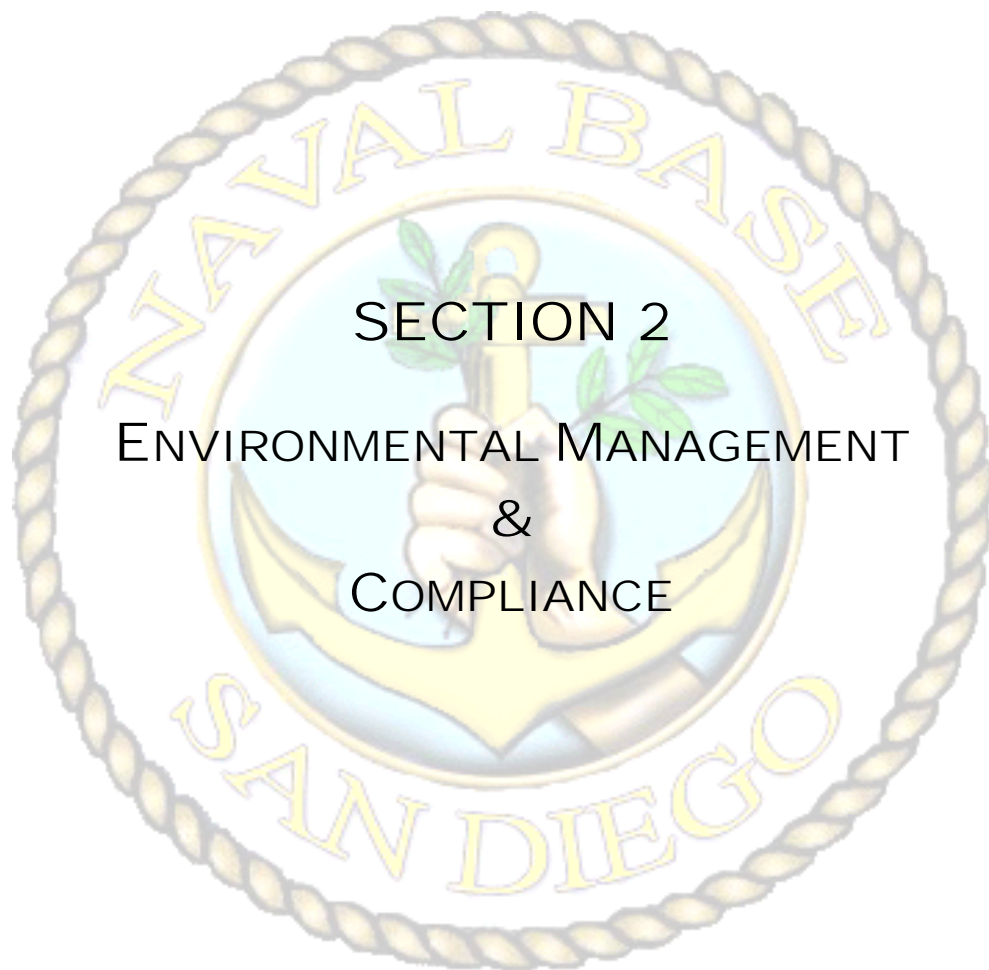
**Scrap Metal:** Includes metal parts, metal workings, shaving, turnings, used containers (not containing any HW/HM residues) or debris. Scrap metal does not include fine metal powders, electronic equipment or components.

**Spill:** A release of contaminated and/or HM into the environment.

**Toxicity:** The degree to which a substance (a toxin or poison) can harm humans or the environment

**Uniform National Discharge Standard (UNDS):** Legislation passed by Congress amending the Clean Water Act to control discharges that are incidental to the normal operation of vessels of the Armed Forces.

**Volatile Organic Compound (VOC):** The component of a paint, solvent, adhesive, or other similar substance that evaporates into the surrounding environment with the potential to cause or contribute to air pollution.



SECTION 2  
ENVIRONMENTAL MANAGEMENT  
&  
COMPLIANCE

*(This page left blank intentionally)*



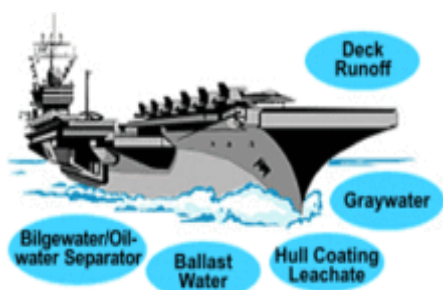
# ENVIRONMENTAL MANAGEMENT AND COMPLIANCE



## WATER QUALITY

This section focuses on National Pollutant Discharge Elimination System (NPDES) Permit requirements and Uniform National Discharge Standards (UNDS) regulations for forces afloat. The section should help define what the expectations are of the fleet sailor working over-the-side and how best to implement BMPs to provide maximum protection to the bay. This section will also include discharges prohibited at NBSD.

## UNDS DISCHARGES



*Illustration of some of the discharge types subject to UNDS regulations.*

UNDS regulates Armed Forces vessel discharges during operations in inland waters or within 12 nautical miles (Nm) of shore. UNDS, as described in the Navy Region Southwest Port Environmental Manual (April 2018, Section 4.1, page 25) is as follows:

All vessels must be aware that the UNDS is a regulatory program under the Clean Water Act, a Federal Law. These requirements provide a single set of discharge standards nationwide out to 12 Nm for

incidental discharges occurring from the normal operation of vessels of the Armed Forces. UNDS supersedes any standard currently in place for a state or territory.

Failure to comply with the UNDS requirements could result in enforcement actions, such as penalties and fines, issued by the USCG or a State.

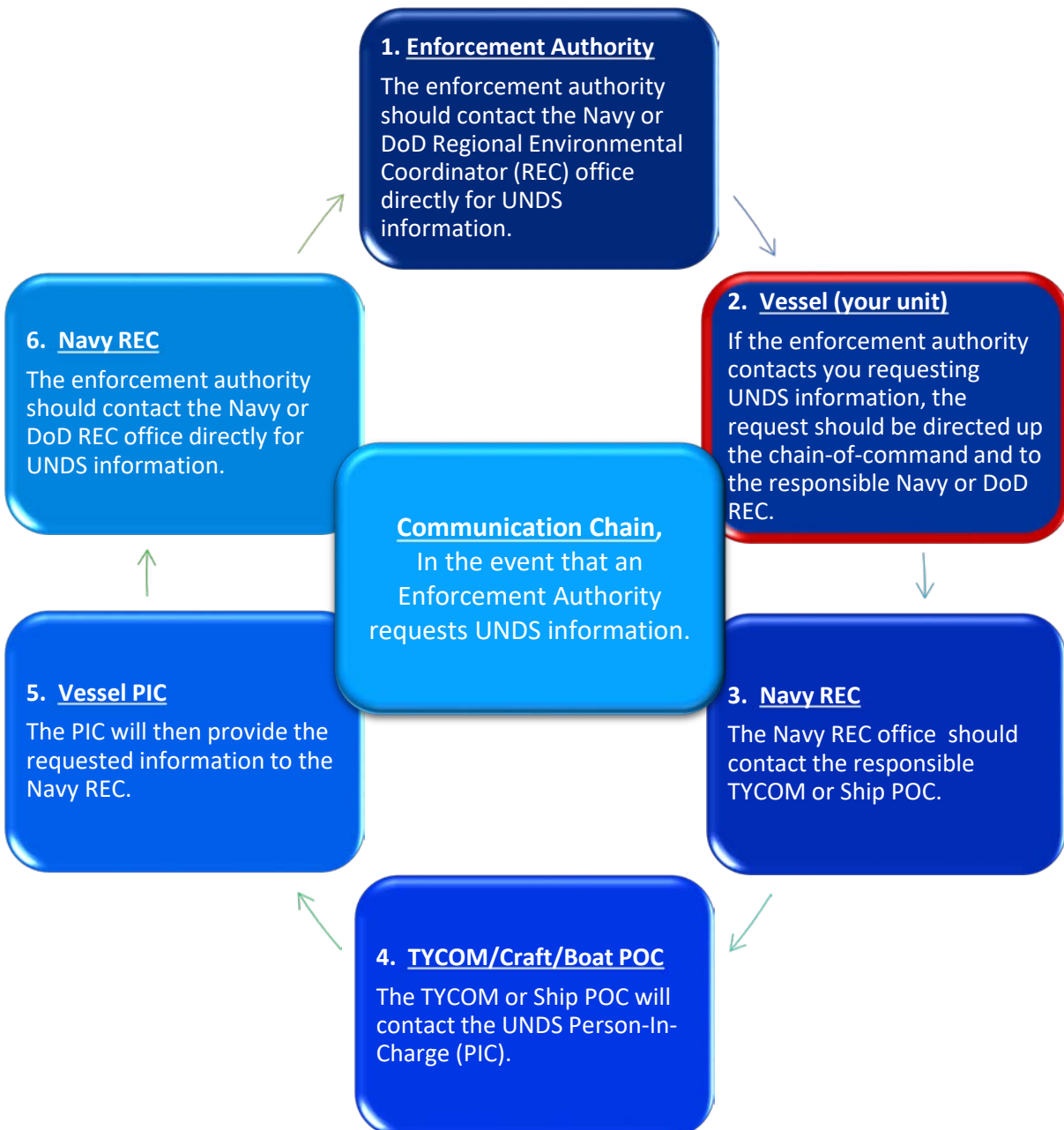
If a vessel has an UNDS controlled discharge that fails to comply with these standards, the vessel designated Person In Charge (PIC) must, within 5 days of becoming aware of the non-compliance, send a non-compliance report (Navy message) to the Navy Regional Environmental Coordinator (REC) office, the vessel's TYCOM and Fleet Commander, or respective commander for non-commissioned vessels. The report format can be found on the Afloat Compliance Website, link is provided below.

If any vessel is contacted by an enforcement authority regarding UNDS records or non-compliance, direct them to the Navy REC office.

For further information on the discharges covered, reporting, record keeping, and notification requirements should a violation occur, and responsibilities of the PIC (normally the Commanding Officer), please view the UNDS tab on the Afloat Compliance Website located at: <https://eims3.sscno.nmci.navy.mil/afloat/>.

Please view Appendix B for a list of UNDS monitored and controlled discharges at NBSD.

For UNDS discharge clarification and/or approval, Ship's force must consult with the Navy on Scene Coordinator (NOSC), 619-556-6232 (office), 619-954-3147 (cell).



## PROHIBITED DISCHARGES

NBSD water quality (NPDES) requirements prohibit substances from the nonexclusive list below from being discharged to San Diego Bay. NBSD water quality (IUDP) requirements also prohibit the following from being discharged to the sanitary sewer (ship's CHT) system without prior approval from the NBSD Environmental Office.

**Exceptions include substances otherwise allowed by UNDS and sewage.**

- AFFF
- Any discharge that causes or contributes to a violation of water quality standards aside from authorized UNDS discharges
- Clarified water from oil/water separator
- Blasting materials
- Dirty Ballast Water
- Fiberglass dust
- Fuel leaks and spills
- HS
- HW
- Hydraulic oil leaks and spills
- Hydro-blast water
- MW
- Bilge water
- Paint chips, spills, and over-spray spills
- Saltbox water
- Ship repair and maintenance activity debris
- Steam cleaning water
- Swept materials
- Tank cleaning water from tank cleaning to remove sludge and/or dirt
- Trash, miscellaneous refuse, and rubbish
- Water contaminated with abrasive blast materials, paint, oils, fuels, lubricants, solvents, other petroleum, or any discharge above industrial wastewater discharge standards
- UNDS discharges that are not applicable to NBSD

**For questions regarding these or other discharges to the bay or sewer system please contact the NBSD Environmental Office at 619-556-1537.**

## SHIP SEWAGE SPILLS



Overboard discharge of sewage is prohibited unless necessary to prevent loss of life, personal injury, or severe damage to property or vessel.

For spills or leaks from CHT risers or discharges into the bay, ship's force is required to make the following notifications:

- ✓ Cal OES 1-800-852-7550 (document control# and provide to NAVFAC Duty Desk)
- ✓ NBSD CDO at 619-247-8897
- ✓ NAVFAC Duty Desk at 619-556-7349
- ✓ During normal working hours, the NBSD Environmental Office at 619-556-1537. If you reach the office voicemail, please leave quantity of spill, date, time, location and a point of contact



## GREYWATER SPILLS



Vessel greywater discharge at NBSD is prohibited, unless necessary to prevent loss of life, personal injury, or severe damage to property or vessel. No matter the cause, any discharge, regardless of the quantity, must be reported to the NAVFAC Duty Desk at 619-556-7349 and NOSC at 619-556-6232 (office), 619-954-3147 (cell).

## HAZARDOUS WASTE & MATERIALS



In accordance with OPNAV M-5090.1, ships shall transfer used or excess HM to a shore activity for determination of disposition. If the shore activity determines that used or excess HM has no further use, it will declare the material to be waste and process in accordance with regulatory requirements governing generation of HW, if applicable. Under no circumstance will a Navy vessel be listed as a "generating site" by a shore facility or contractor when applying for Environmental Protection Agency (EPA) HW generator identification numbers.

**Container Selection.** Ensure containers are compatible with material contained, corrosives, flammables, etc.

Must be able to close properly, no severe denting, corrosion or damage that compromises the integrity of the container.

No “free” liquids in cardboard boxes or bags and no glass containers in plastic bags. If containers are needed for used, excess HM contact NAVFAC HW services contractor (619-556-9600/01).

**Labeling.** All HM containers shall be labeled at all times. Labels for shipboard identification of HM containers must clearly identify the material name, manufacturer's name and address, stock number and the nature of the hazard. This includes debris contaminated with HM.

If applicable, HW labels must be affixed to each container/bag placed on the pier. Labels can be obtained from NAVFAC HW contractor (619-556-9600/01).

Each HW label must be completely filled out with the following information:



If the contents of a HM container are unknown, the label must state so.

**Segregation.** Ships shall segregate collected used HM. Unsegregated, incompatible HM, in the same box, bag, or drum, poses a significant environmental or safety risk such as violent reaction or fire and will be cause for pick up cancelation. Please review the NAVOSHENVTRACEN Compatibility Chart in **Appendix C**.

The following wastes will **NOT** be accepted by the NAVFAC HW contractor:

- Radioactive Materials
- Bio-Infectious Wastes, Sewage or Mixtures Containing Sewage (Feces, Urine)
- MW, Drugs, Sharps, Sharps Containers, Blood Contaminated Materials
- Compressed Gas Cylinders except acetylene
- Explosives, Ammunition, Ordnance, Pyrotechnics
- Wet Garbage and Inedible Food.

Management of the above-listed wastes is discussed later in this document.

## TURN - IN REQUIREMENTS



When used or unused HM is placed on the pier it must be managed in accordance with OPNAVINST 5090.1D 35-3.16(b) which states ships are required to transfer used or excess HM to a NAVY shore activity who, working with ship personnel, will determine whether shipboard HM is usable, reusable, or should be disposed of as HW.

Used HM that is turned in by ship personnel will be accepted provided it conforms to the protocol stated in Chapter 23 of OPNAVINST 5100.19E. In accordance with OPNAVINST 5100.19E, HM not meeting the requirements as specified in the instruction will be returned to the originating ship and the command notified.

When HM is placed on the pier, it must be identified with a HM label, if applicable. Hazardous liquids MUST be contained in a solid, compatible container labeled adequately. NAVFAC HW contractor provides generic labels and offers assistance in preparing the label if requested.

Despite the used hazardous pick-up schedule, please always call the NAVFAC HW contractor to coordinate pick-up (619) 556-9600/01. If there is high activity on the piers or limited pier access, please stage material at the pier entrance to ensure collection. The contractor will NOT pick up waste unless there are ship personnel present at outgoing HM.

USED HAZARDOUS MATERIAL DAILY PICK-UP SCHEDULE					
TIMES	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
0800 – 0830	PIER 1 PIER 3 PIER 5	PIER 1 PIER 3 PIER 5	PIER 1 PIER 3 PIER 5	PIER 1 PIER 3 PIER 5	PIER 1 PIER 3 PIER 5
0850 – 0920	PIER 2 PIER 4 PIER 6	PIER 2 PIER 4 PIER 6	PIER 2 PIER 4 PIER 6	PIER 2 PIER 4 PIER 6	PIER 2 PIER 4 PIER 6
1000 – 1030	PIER 7 PIER 9 PIER 13	PIER 7 PIER 9 PIER 13	PIER 7 PIER 9 PIER 13	PIER 7 PIER 9 PIER 13	PIER 7 PIER 9 PIER 13
1050 – 1120	PIER 8 PIER 10 PIER 12	PIER 8 PIER 10 PIER 12	PIER 8 PIER 10 PIER 12	PIER 8 PIER 10 PIER 12	PIER 8 PIER 10 PIER 12

**Empty Containers.** An “empty” HM container may be recycled if it meets the following requirements:





- **Never contained an extremely or acute HW. (See paragraph below for assistance)**
- Container has **no free-flowing liquids**
- **Not an aerosol can.** (Turn aerosol containers in to NAVFAC HW contractor)

Place containers meeting the above requirements into the black metal recycling bins located on or near the piers. If you are unsure if your container held an extremely or acute HS contact the NBSD Environmental Office at 619-556-1537 for clarification.

**Fluorescent Light Bulbs.** Do not crush fluorescent light bulbs prior to disposal. Fluorescent light bulbs must be placed into a special container available for waste turn-in. Fluorescent lights cannot be placed in trash bins.

**Used Cooking Oil.** May be disposed of through NAVFAC HW contractor. The used cooking oil may be in any secured, non-leaking container. For further pickup and proper turn-in guidance, call 619-556-9600/ 9601.

## COMPRESSED GAS CYLINDERS

**Disposal.** Contact NAVSUP Fleet Logistics Center at 619-556-0381, for compressed gas cylinder disposal, regardless of size. Gas cylinders shall not be placed in trash or scrap metal containers.

Do not intentionally puncture, vent, or discharge gas cylinders into the environment.

**Aerosols.** Containers (i.e., paint cans) are not compressed gas cylinders and must be managed through NAVFAC HW contractor.

**Refrigerant Bottles.** All empty and unused refrigerant bottles such as R12 and R114 and Halons 1202, 1211 and 1301 shall be returned to the Supply System. Contact NAVSUP logistics for turn-in procedures.

If abandoned compressed gas cylinders are found, call your Logistic Support Representative (LSR).

## HAZARDOUS MATERIAL



**Unused HM.** Unused excess HM must be turned-in to FISC Logistics Support Center (LSC) or by contacting your LSR. You can locate your LSR by contacting 619-556-0420 or by visiting FISC website at <https://www.navsup.navy.mil>. Ships with excess HM must call the LSR to arrange for screening and offload by qualified FISC personnel.



**Do NOT leave used or excess HM unattended on the piers.** This is considered "abandoned" HM which subjects the Navy to a Notice of Violation and fine.

**Abandoned HM on the Pier.** Notify:

- 1st. Your LSR (locate your LSR by contacting 619-556-0420) , or
- 2nd. Pier Supervisor, 619-556-8506
- 3rd. NBSD Environmental Office at 619-556-1537.
- 4th. WEC/NOSC, Mr. Stuart Morgan at 619-556-6232.

**Used HM Pick-Up Schedule.** Used HM not acceptable for turn-in at FISC Hazardous Materials Minimization Center (HAZMINCEN) must be turned in to the NAVFAC HW contractor during scheduled pier pick-up times listed previously. For further information or emergency arrangements, contact the NAVFAC HW contractor at 619-556-9600/9601 or your LSR.

Used HM must be in proper containers, labeled, with no loose, leaking liquids while subjected to normal handling when placed on the pier.

## **SURPLUS ELECTRONIC EQUIPMENT MANAGEMENT**

Excess electronics include, but are not limited to, computers and computer peripherals, televisions, stereos, radio equipment, fax machines, telephones, cell phones, IPODs, calculators, and electronic equipment with soldered circuit boards.



- **NMCI Surplus Equipment Turn-in.** Contact your Contract Technical Representative [https://nmcicustomerreporting/CTR\\_Lookup/](https://nmcicustomerreporting/CTR_Lookup/).
- **All Other Discarded Electronics.** Equipment must be turned in to DLA-Disposition Services (formerly DRMO) for proper management. Complete form 1348-1A, available on-line at <https://www.dla.mil/DDSR/>. To contact a DLA Ship Representative dial 619-556-1199/1117, or 619-512-0517/0223; or email [drmsandiegods@dlamail](mailto:drmsandiegods@dlamail)

## **OILY WASTE (BILGE WATER) AND WASTE OIL**



Prior to initial use of the Bilge and Oily Wastewater Treatment System (BOWTS) pier-side oil recovery facilities, NBSD mandates training and vessel certification. To schedule training or for additional information call 619-556-9688 or 619-545-7537.

**Oily Waste Offload for Foreign Vessels.** **Host ships shall provide support** for visiting foreign vessels and ensure the federal requirements for oily waste transfer operations are met. Visiting foreign vessels will be provided oily waste transfer information during the in-port briefing by the host ship and Port Operations Officer. **Routine use of shipboard OWS inport is not authorized at NBSD. If the bilge water or oily waste discharge contains AFFF, call 619-556-9688 in advance. Defoamer (to add to the bilge or tank) and discharge monitoring will be provided.**

**NBSD Requirements/Procedures:**



- **Oily Waste (OW) off-load** is conducted via shore connections located on quay-walls, piers 1-10, 12, and 13 using pipelines and risers connected to the BOWTS.
- **Schedule bilge and oily waste disposal.** Ships must pick up radios for use during transfer.
- **Containerized (drummed) waste oils** are to be turned in during normally scheduled HW pick-up times.

## HAZARDOUS SUBSTANCE SPILLS

Ships shall make the following notifications if a HS enters the bay or if oil sheen is discovered.

1. **Contact Port Operations (Liquid Cargo) at 619-556-8006** and follow reporting and notification requirements listed below:

INITIAL REPORTING	FOLLOW UP REPORTING
1. Local time and date of spill	9. Any areas damaged or threatened
2. Facility/vessel where spill originated	10. Contact information of person reporting
3. Spill location (Pier, mooring designation, etc.)	11. Spill Environment – weather, winds, etc.
4. Volume spilled in gallons	12. Telephone report to National Response Center (NRC)
5. Type of oil spilled	13. Are samples needed or were they taken
6. Operation under way when spill occurred/discovered	14. How was spill contained
7. Cause of spill	15. Spill removal method – If any
8. Slick description and movement	16. Volume of oil recovered in gallons
	17. Who performed spill removal
	18. Regulatory agency(s) on site
	19. Contact information of person reporting

If spill entered the Bay, ship shall also notify Mr. Stuart Morgan, Waterfront Environmental Coordinator (WEC)/**NOSC**, 619-556-6232 (office), 619-954-3147 (cell).

2. **Contact NBSD CDO 619-247-8897**

- CDO determines whether to notify Port Ops (Liquid Cargo) or Fed Fire
- CDO contacts WEC/NOSC (Mr. Stuart Morgan)
- CDO contacts Environmental Office

**Environmental Office 619-556-1537** (0700-1600). If you reach the office voicemail, please leave a message specifying the material spilled, quantity of spill, date, time, location, and a POC.

## AIR QUALITY

In port, all onboard paint usage ship by ships' forces must be logged and tracked in accordance with OPNAV 5090.1D. Ships will record and report marine coating use each day. The log shall include the following information:

- 1) Date Coating/Prep Agent/Cleaner Used
- 2) Product Manufacturer
- 3) Quantities (pint, qt., gal., oz.): Qty. Issued/Qty. Used
- 4) Volatile Organic Compounds (VOC) in grams/liter or lbs./gal
- 5) Common Product Name (e.g. Haze Gray, thinner)



These usage logs shall be retained onsite for three years. Hazardous Inventory Control System for Windows (HICSWIN) should be used to track this information. If HICSWIN training is needed, contact your Consolidated Hazardous Material Reutilization and Inventory Management Program (CHRIMP) technician. If HICSWIN is not available, an Excel usage log may be used. If you require an Excel log, contact NBSD's Air Program Manager at 619-556-0966. Records shall be provided to NBSD's Air Program Manager by the 10<sup>th</sup> day of the month for the previous month, or prior to departure. The Air Pollution Control District (APCD) is the regulatory agency overseeing air quality. APCD is authorized to come aboard and conduct inspections of ships and their activities that are related to air quality. This includes but is not limited to paint, solvent and adhesive usage, blasting, sanding, and engines over 50 horse power. Engines used for propulsion are exempt.

## SHIP LIGHT-OFF PROCEDURES

The APCD no longer requires a phone call from ships testing their boilers or prior to getting underway. District Rule 50 addresses these evolutions. Vessel steam boiler operations are granted a broad exemption per section b(8) of this rule. Recent APCD policy does not extend this exemption to diesel and gas turbine ships. Emissions from these vessels are limited to 20 percent opacity (Ringlemann 1) for no more than 3 aggregated minutes in any consecutive 60-minute period. Contact the NBSD Air Program Manager for additional details at 619-556-0966.

## MEDICAL WASTES

**Turn in.** Units producing medical waste (MW) are to turn in their MW to the NAVFAC MW contractor. Times for MW pickup are on the following pages.

**Return Program.** Non-Expired or soon-to-be-expired pharmaceuticals not exceeding 1 year shall be turned in to the Guaranteed Return Program (GRP), FISCSD, when possible. For more information, please contact or visit: Ms. Monet Bernhardt at 619-556-0419, Bldg. 116, NBSD.



**Expeditionary Health Services Pacific (EHSP).** EHSP Medical Warehouse, located in Bldg. 279, provides the following services:

- Collection and redistribution of excess medical equipment and consumables.
- Issue and tracking of Chemical, Biological, and Radiological (CBR) medications for COMNAVSURFPAC units.

The hours of operation are 0700-1100/1145-1400 Monday through Friday. Call 619-556-1465 or 619-571-3801 for special appointments or more information.

## MEDICAL WASTE CATEGORIES



Wastes generated from diagnosis, research, treatment, immunizations, production or testing of biological products containing infectious agents are normally classified as MW. The four categories of MW are as follows:

1. **Medical Solid Waste (MSW).** MSW includes but is not limited to empty specimen containers, bandages, dressings, dried blood, non-infectious surgical gloves, unused IV tubing, non-contaminated broken glassware, and other materials that are not classified as biohazards. If you are uncertain if you have MSW, please contact the NBSD Environmental office at 619-556-1537. Unused medical solid waste **should be** managed as regular trash and disposed of in the appropriate dumpster. All MSW must be double bagged before being placed in the trash. The bags DO NOT require any labeling or marking.

2. **Biological Hazardous Waste (BHW).** Most BHW falls into one of the following categories:

- Laboratory waste, pathogens, used specimen stocks or cultures, infectious agents, vaccines, non-sterilized culture dishes or materials that may contain infectious substances and may pose a significant threat to human health.



- Blood and body fluids, containers contaminated with blood or body fluid elements that have separated from the solid portion of the waste under normal temperature.
- Tissues & medical/surgical type items contaminated with or that once contained chemotherapeutic agents.

BHW must be staged for pier-side collection by the MW contractor at the times listed in the section titled **MEDICAL WASTE TURN IN & DISPOSAL**. BHW shall never be discarded in the trash. All BHW must be accumulated, managed, and disposed of in certified **red bags**. All BHW bags shall be closed to prevent any leakage or expulsion of solid or liquid waste during storage, handling, or transportation. Each bag shall be clearly labeled with the bag contents.



3. **Sharps Waste.** Sharps are devices having rigid edges or corners used in medical or dental practices that are capable of cutting or piercing. Examples include hypodermic needles, syringes with needles, blades, lancets, or broken glassware contaminated with BHW.



- **Unused** sharps contained in the original packaging can be returned to the GRP
- **Used/contaminated** sharps wastes must be accumulated in leak proof, rigid, puncture-resistant containers which, when sealed, cannot be easily reopened. **Sharps are not to be managed in plastic bags. A rigid container is required.** As with BHW, used sharps waste is not authorized to be placed into the trash and must be managed and disposed of as BHW. All sharps containers must have the Generator's Label when first placed into use. This includes Name, Address and Phone Number.

4. **Pharmaceutical/Waste Pharmaceuticals.** A pharmaceutical is any over-the-counter or prescription drug used for medical treatment. Any unused, expired less than a year, or extendible shelf life pharmaceutical from a ship may be managed as outlined below.

- Provide to another navy command, either afloat or ashore for usage or distribution, or return to the manufacturer through either:
  - A Reverse Distribution Program (**RDP**).
  - A Guaranteed Return Program (**GRP**).



The disposal of unused pharmaceuticals as MW should be the ship's last option.

Those pharmaceuticals expired beyond a year or not redistributable as stated above must be classified and managed as a waste. These include:

- California regulated (non-RCRA) Waste Pharmaceuticals

- Federally regulated (RCRA) Waste Pharmaceuticals

Only non-RCRA pharmaceuticals may be turned in for disposal during normal scheduled pier-side pick-up times.

Non-RCRA, California regulated waste pharmaceuticals must be placed in **clear plastic bags** and identified with the ship's name, address, and telephone number prior to pick up. The bags shall also be labeled "**Waste Pharmaceuticals-Incinerate Only**".



## RCRA WASTE PHARMACEUTICALS

The EPA has classified some waste pharmaceuticals as HW since their characteristics pose a specific harm to human health or the environment. These include iodine and alcohols or other medicinal products.

The following are common listed pharmaceuticals used in military treatment facilities that **cannot** be turned-in and must be managed as HW through the NAVFAC HW services contract (619-556-9600/01). (Appendix A contains a more extensive, non-inclusive, list of RCRA waste pharmaceuticals and associated product characteristics.)

Common P-Listed Pharmaceuticals	Common U-Listed Wastes
<b>P012</b> Arsenic Trioxide	<b>U034</b> Chloral (as the hydrate)
<b>P042</b> Epinephrine	<b>U035</b> Chlorambucil
<b>P075</b> Nicotine, & Salts	<b>U058</b> Cyclophosphamide
<b>P081</b> Nitroglycerine (R)	<b>U059</b> Daunomycin
<b>P204</b> Physostigmine	<b>U075</b> Dichlorodifluoromethane
<b>P188</b> Physostigmine Salicylate	<b>U089</b> Diethylstilbestrol
<b>P001</b> Warfarin & Salts, when present at concentrations > 0.3%	<b>U129</b> Lindane
	<b>U150</b> Melphalan
	<b>U010</b> Mitomycin C
	<b>U200</b> Reserpine
	<b>U201</b> Resorcinol
	<b>U205</b> Selenium sulfide
	<b>U206</b> Streptozotocin
	<b>U121</b> Trichloromonofluoromethane
	<b>U248</b> Warfarin & Salts, when present at concentrations < 0.3%

## PHARMACEUTICAL & PERSONAL CARE PRODUCTS (PPCP)

Recent environmental laws require **PPCPs** to be managed similar to pharmaceuticals (e.g., either as HW or MW depending on the products hazard characteristics). Personal care products include any products used for personal health or cosmetic reasons.

Sunscreen, cosmetics, fragrances, vitamins, supplements and any medicated personal use products are included. Some examples include aftershave, cologne, perfume and antibacterial soaps, which contain alcohol. Due to alcohol content their flash point may make these items ignitable RCRA wastes. This also applies to some of the materials below. Antihistamines are an example of non-RCRA MW pharmaceuticals.

### PPCPs include, but are not limited to the following:

- Aftershave
- Antibacterial soap
- Antibiotics
- Anti-fungal products
- Antihistamines
- Antiperspirant deodorant
- Antiseptics such as iodine, betadine and alcohol based hand wipes
- Aspirin, acetaminophen and ibuprofen
- Blood pressure medications
- Dandruff shampoo
- Decongestants
- Eyeliner
- Hair styling gel
- Lotion containing vitamins
- Nail polish and remover
- Nicotine patches
- Pain Medications
- Products that contain lidocaine
- Psoriasis and eczema topical treatments

Empty containers that held PPCPs may be placed into pier-side trash bins if they **never contained an EPA P-listed material or waste**. (See **RCRA Pharms list, Appendix A, or contact NBSD Environmental for assistance, 619-556-1537**)

## MEDICAL WASTE TURN IN & DISPOSAL



MW must be staged separately from used HM in a secure or designated location (separation is as simple as storing the MW on its own pallet). Shipboard medical and dental waste will be collected pier-side **Tuesday and Friday** per the following schedule:

MEDICAL WASTE PIER-SIDE PICK-UP SCHEDULE							
PIER	TUE/FRI		PIER	TUE/FRI		PIER	TUE/FRI
1	0700 - 0725		5	0900 - 0925		9	1100 - 1125
2	0730 - 0755		6	0930 - 0955		10	1230 - 1255
3	0800 - 0825		7	1000 - 1025		12	1300 - 1325
4	0830 - 0855		8	1030 - 1055		13	1330 - 1355

*(This page left blank intentionally)*



SECTION 3  
VESSEL MAINTENANCE  
&  
PRESERVATION

*(This page left blank intentionally)*



# VESSEL MAINTENANCE AND PRESERVATION



The BMPs listed in this guide must be implemented by ship's forces. Approval to use alternative BMPs may be granted by the NBSD Environmental Office if it can be demonstrated that the alternative BMPs will provide an equivalent level of environmental protection

## GRINDING, SANDING, CHIPPING, WELDING & SURFACE PREPARATION



- Work shall be discontinued during high wind or rain.
- The area scheduled for work should not exceed 10 ft. x 10 ft. at any given time.
- Where work has the potential to discharge particulates into the bay, use shrouding, tarps, or other effective methods on vertical or horizontal surfaces, near or on the skin of the ship, maximizing the capture of dust, paint chips, metal fragments, etc.
- Work required on grating or other pervious surfaces found aboard ship must have a drop cloth or equivalent substitute placed underneath the work surface.
- When hydraulic man-lifts are used, canvas covers plastic, or equivalent durable material (at least 6 mm thick) must be used to cover the bottom portion of the man-lift and must not extend vertically beyond the kick plate.
- Work areas must be swept or vacuumed thoroughly (no visible indications of debris) upon the completion of each job, or at a minimum at the end of each work shift.

## PAINTING



- Unsheltered painting shall be discontinued during high wind or rain.
- When over-the-side painting is scheduled using camels, floating platforms, or equivalent equipment, drop cloths are to be placed on the deck of the equipment to capture paint droplets or spills. In addition, when practical, a covered float should be placed under the vertical surfaces where over-the-side work is planned.

- At a minimum, painting operations conducted from a floating platform must have the bottom tier covered with a drop cloth. The drop cloth shall be secured in such a manner as to render it immobile.
- Paint/Coating Requirements. Ship's company personnel shall consult the Ship's Hazardous Material List (SHML) for paints authorized for use onboard ship. In addition, the following rules apply:
  - 1) VOC limit for Marine Coatings (Paints) is 340 grams/liter or 2.8 lbs./gl.
  - 2) Thinning of coatings with solvents is prohibited.
  - 3) All paint cans and solvent containers must be kept closed or covered when not in use.
  - 4) Rags used for solvent wipe cleanup must be placed in leak and vapor proof plastic bags or containers when not in use or stored for proper disposal.
  - 5) Paints/coatings obtained overseas are not authorized for use in California ports.
  - 6) Safety Data Sheets (SDSs) must be kept on file for all HM.

## ADHESIVES



***VOC limits for adhesive coatings: Contact the NBSD Environmental Office if you have questions about VOC content.***

- All adhesive containers must be kept closed or covered when not in use.
- Rags used for cleanup must be placed in leak and vapor proof plastic bags or containers when not in use or stored for proper disposal.
- Adhesives obtained overseas are not authorized for use in California ports.
- Ship's company is prohibited from establishing an adhesives application station pier-side.
- NBSD Environmental Office must evaluate all adhesives work evolutions prior to use on a pier.

## SHIP FRESH WATER WASH DOWNS



- Fresh water wash downs are authorized to address salt buildup and operations outlined in UNDS.
- Fresh water wash down of ship flight decks may not be conducted due to environmental concerns from residual petroleum products.
- Prior to a fresh water wash down, all loose debris must be removed and the surface must be cleaned and swept. Under no circumstances shall any debris, oils/grease, or other contaminants be washed and/or swept over the side of the ship. The use of detergents to clean and remove oil, grease, grime, etc., as part of a wash down is prohibited. The use of pressure washer for wash down is also prohibited.
- Wash down water discharged to the bay must not show any evidence of sheen, suspended particulates, cloudiness and/or discoloration. Discharged water must remain clear; a visible sheen on receiving waters must be reported.

For approval and/or clarification, Ship's force must consult with the NOSC, 619-556-6232 (office), 619-954-3147 (cell).

## WEIGHT TESTING WATER DISCHARGES



The discharge of weight testing water into San Diego Bay is authorized by the NBSD Environmental Office, Water Quality Group, on a case-by-case basis. Follow the steps below to obtain approval to perform weight testing.

**Step 1.** Contact and notify the NBSD Environmental Office, Water Quality Group (619-556-1537). The Water Quality Group personnel will discuss about the matter and send an electronic copy of the Weight Test BMP Plan for review.

**Step 2.** Send an email to NBSD Environmental Office, Water Quality Group personnel with the following information and document to [cniswenvnbsandiego@navy.mil](mailto:cniswenvnbsandiego@navy.mil):

A. Specifics:

- (1) Pier and Ship where test will be performed?
- (2) Date and proposed time of discharge?
- (3) What is the estimated volume of discharge?
- (4) Equipment used for the testing and where it will be located (i.e. crane on the ship or pier)?
- (5) Who will be performing the test and managing the discharge?  
What is their contact information?
- (6) From where the water will be drawn (i.e. fire main system on ship, bay water, etc.)?
- (7) How bags will be obtained?
- (8) Verification that bags were cleaned and inspected according to industry standard and are free of contaminants/pollutants?

B. Submit the Water Weights Inspection Certificate to us (NBSD Environmental), certifying that the bag is clean.

**Step 3.** Receive an approval email from NBSD Environmental Office, Water Quality Group.

If possible, the discharging vessel must make the notification to the NBSD Environmental Office as early as practical. A 72-hour advance notification is preferred.

## GENERAL PIER HOUSEKEEPING



Good housekeeping is an important BMP and consists of routine sweeping, vacuuming, and clean-up of work areas that, at a minimum, must be completed at the end of each work shift.

HM/W spills, such as paints and oils, shall be **immediately** cleaned up.

Senior Officer Present Afloat (SOPA) Pier Environmental Petty officers shall conduct pier walk-throughs at least once a week to monitor cleanliness, spills or leaking equipment and abandoned wastes or other items.

Ship's company is not to stage HW or MW on the piers more than thirty minutes in advance of a pier-side pickup. The staged HW/MW must be manned until pick-up time.

Ships requiring HM storage on the piers for greater than 24 hours must place liquid materials in secondary containment sufficient to contain any spills. All equipment staged on the pier, such as Baker tanks, generators, re-circulating pumps etc., must be placed in secondary containment sufficient to contain spills. Vehicles used solely for transportation and/or loading and unloading are not required to have secondary containment when not in use, unless they are leaking fluids.

## PIER-SIDE PAINTING



Painting operations conducted from piers utilizing man lifts shall use non-porous covers designed to prevent the spillage or discharge of paints into the bay. If covers are not available, the man lift may be covered or wrapped with similar materials (i.e., plastic, shrink-wrap) to prevent the release of paint into the environment. Paper is not to be used to wrap the basket or used as a drop cloth. Plastic must be a minimum of 6 mm in thickness.

Ship's force is prohibited from painting equipment, vehicles, etc., on piers. Such evolutions require a permit from the San Diego APCD. If circumstances require ships force to paint items on the pier, the evolution must be cleared through the NBSD Environmental Office.

## SHIPS' FORCES RECORDKEEPING



In accordance with OPNAV M-5090.1 all painting evolutions, whether inside the ship or on the outer hull, require **USAGE LOGS** be maintained and retained onsite for three years. These logs must include:



- ✓ Date Coating/Prep Agent/Cleaner Used
- ✓ Product Manufacturer
- ✓ Quantities (pint, qt., gal., oz.): Qty. Issued/Qty. Used
- ✓ Volatile Organic Compound in grams/liter or lbs./gal
- ✓ Common Product Name (e.g. Haze Gray, thinner)

HICSWIN should be used to track this information. If HICSWIN training is needed, contact your CHRIMP tech. If HICSWIN is not available, an Excel usage log may be used. If you require an Excel usage log, contact NBSD's Air Program Manager at 619-556-0966. Records shall be provided to NBSD's Air Program Manager by the 10<sup>th</sup> day of the month for the previous month, or prior to departure.

## LEAKING VEHICLES



When vehicles, forklifts, etc., under the cognizance of the ship are leaking fluids (i.e. oil, antifreeze, etc.), the ship must capture the fluids using a drip pan or similar device. Such devices containing leaked fluids (i.e. oil, oil with water, antifreeze, etc.) must be emptied and cleaned on a daily basis or prior to any rainy days.

**Spill/leak residuals** resulting from leaking vehicles shall be **immediately** cleaned up using absorbents, rags, etc.

**Materials/wastes** generated from leaking vehicles shall be treated as HW and disposed of accordingly.

The ship will take measures to ensure the vehicle is scheduled for repairs that stop the leak.

## TRASH & RECYCLING

While black scrap metal bins are readily available on the piers, if you need to dispose of cardboard, please contact the Waste Management Contract Specialist at 619-556-0513/6732 to request a drag on.

Wood and wooden pallets should be neatly stacked outside of the head of the pier. Please contact Waterfront Operations to coordinate pick-up at 619-556-3147/8006.

Dumpster and scrap metal bin lids must remain **closed** at all times.



## BLACK SCRAP METAL BINS



- No HM/HW (Turn in to NAVFAC HW contractor)
- No aerosol cans (Turn in to NAVFAC HW contractor)
- No electronics or appliances (Turn in to DLA/DRMO)
- No items for **demilitarization** (see SUPPO for guidance)
- Place scrap metal inside black bins and make sure lids will close.
- Large scrap loads (exceeding bin capacity) should be delivered directly to CNRSW Recycling Centers. Contact the NBSD Recycling Center Site Coordinator at 619-556-9331 for delivery arrangements.

**Laser/Toner cartridges** are accepted, but must be in original packaging and should be delivered directly to CNRSW Recycling Centers. Contact the NBSD Recycling Center Site Coordinator at 619-556-9331/9799 for guidance.

**Lead acid batteries** are accepted for recycling. Deliver directly to CNRSW Recycling Centers. Contact the NBSD Recycling Center Site Coordinator at 619-556-9331/9799 for guidance.

**Reusable.** Items that can be re-used (desks, file cabinets, etc.) for original purpose must be turned in to DLA-Disposition Services (formerly DRMO). Contact DLA at 619-556-1036 for additional guidance.

**Miramar Landfill Municipal Solid Waste Disposal.** For proper guidance, contact the NBSD Recycling Center at 619-556-9331 or 619-556-9799.



## **GUIDANCE FOR REGULATED (FOREIGN) GARBAGE**

U.S. Department of Agriculture (USDA) Animal and Plant Health Inspection Service (APHIS) regulated garbage (RG) regulations prevent the introduction of foreign plant pests/diseases and animal disease into American agriculture; they could have serious consequences for our food supply, global trade, and economy. USDA APHIS RG regulations apply to all vessels arriving at a U.S. port (includes U.S. territories and possessions) if the vessel has been in any port outside of the continental United States (CONUS), Alaska, and Canada within the previous two-year period, or has been in any port in Hawaii or any U.S. territory or possession in the last one-year period. U.S. territories and possessions include: Puerto Rico, American Samoa, Commonwealth of the Northern Mariana Islands, Federated States of Micronesia, Guam, U.S. Virgin Islands, Republic of the Marshall Islands, Republic of Palau.

**Exception:** The vessel has a certificate from U.S. Customs and Border Protection (CBP) or USDA APHIS inspector stating that:

- 1) The vessel has been cleared of all RG,
- 2) All RG was disposed of in accordance with RG requirements,
- 3) The vessel was then cleaned and disinfected in the presence of the inspector, and
- 4) Since being cleaned and disinfected, the vessel has not been in a non-Canadian foreign port.



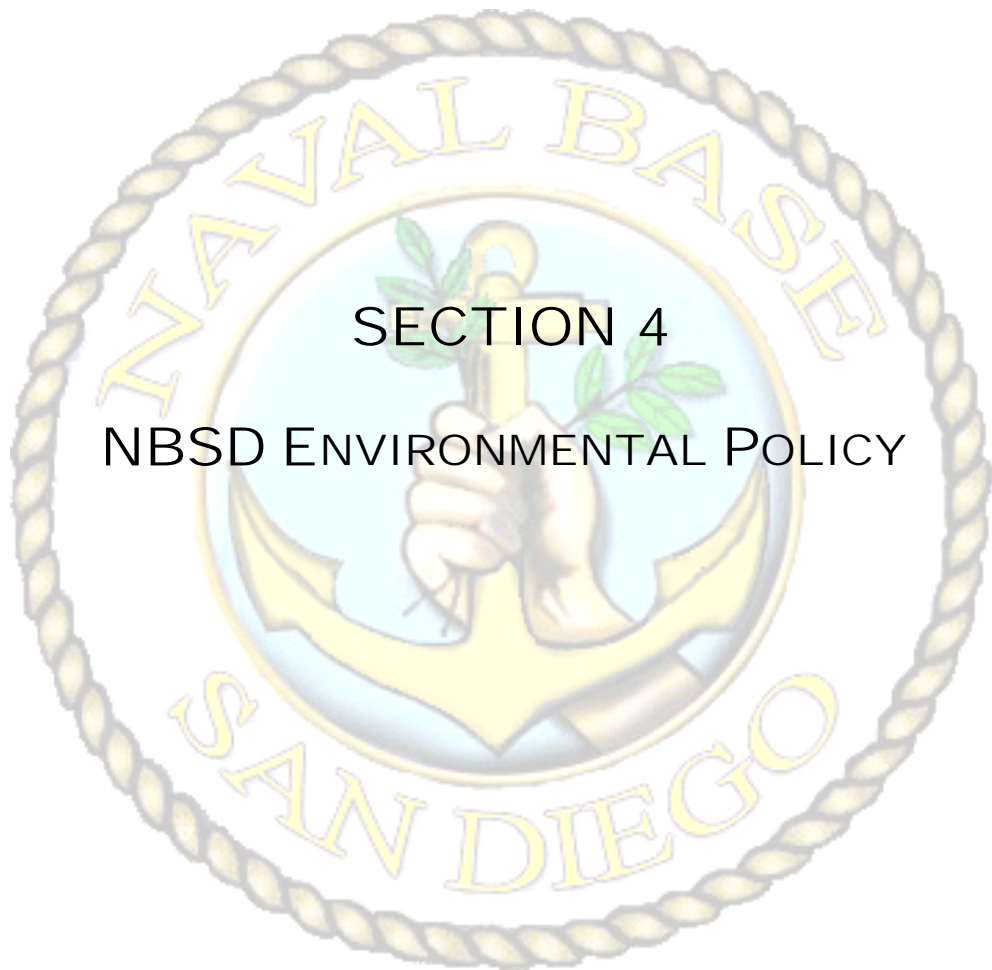
For regulated (foreign) garbage best management guidance, please view Appendix D. To coordinate regulated (foreign) garbage removal, please call Oscar Mora (619) 556-7604.

## **GUIDANCE FOR CONTRACTOR LAYDOWN AREAS ON PIERS AND QUAY WALLS**



All contractors conducting work aboard ship and requiring a designated laydown are required to comply with NAVBASESANDIEGOINST 5450.8Q, Chapter 2 (27 Apr 2012). Contact NBSD Environmental for guidance at 619-556-1537.

In addition, the contractor must also comply with the CNRSW Environmental BMP Guide for Navy piers. Contact NBSD Environmental at 619-556-1537 or [CNISWENVNBSANDIEGO@navy.mil](mailto:CNISWENVNBSANDIEGO@navy.mil) to request a copy of the BMP Guide.



SECTION 4  
NBSD ENVIRONMENTAL POLICY

*(This page left blank intentionally)*



DEPARTMENT OF THE NAVY  
NAVAL BASE SAN DIEGO  
3455 SENN ROAD  
SAN DIEGO CALIFORNIA 92136-5084

23 Aug 19

MEMORANDUM FOR THE RECORD

Subj: ENVIRONMENTAL POLICY STATEMENT

1. Naval Base San Diego's (NBSD) primary environmental goal is to actively support the Fleet, Fighter, and Family through exceptional environmental stewardship and strong working relationships with both stakeholders and non-stakeholders. Therefore, NBSD is committed to:

- a. Making active pollution prevention a priority. Pollution will be prevented or reduced at the source whenever feasible. Recycling is mandatory for all NBSD activities, and all personnel are directed to participate in the NBSD recycling program. For more information and drop off locations, contact NBSD Environmental at (619) 556-1537.
- b. Providing exceptional environmental program support and compliance oversight to both ashore and afloat commands.
- c. Conservation of energy and water resources. Adherence to the NBSD energy and water management programs will ensure preservation of the resources over the entire base.
- d. Minimizing environmental liabilities through continual review of existing operations and processes looking for opportunities to use new technologies that are environmentally friendly.
- e. Increasing awareness and knowledge through an effective environmental training program available to both civilian and military personnel assigned both ashore and afloat.
- f. Identifying and reviewing environmental impacts for significance and setting objectives and targets to minimize environmental impacts.
- g. Ensuring this policy is communicated to all military and civilian personnel and contractors to encourage their continual awareness and support of NBSD environmental programs. The Environmental Management System Policy is available at [www.cnmc.navy.mil/regions/cnrsw/installations/navbase\\_san\\_diego/om/environmental\\_support.html](http://www.cnmc.navy.mil/regions/cnrsw/installations/navbase_san_diego/om/environmental_support.html).

M. S. NIESWIADOMY  
Captain, U.S. Navy  
Commanding Officer

*(This page left blank intentionally)*



SECTION 5  
NAVAL BASE SAN DIEGO  
POINTS OF CONTACT

*(This page left blank intentionally)*



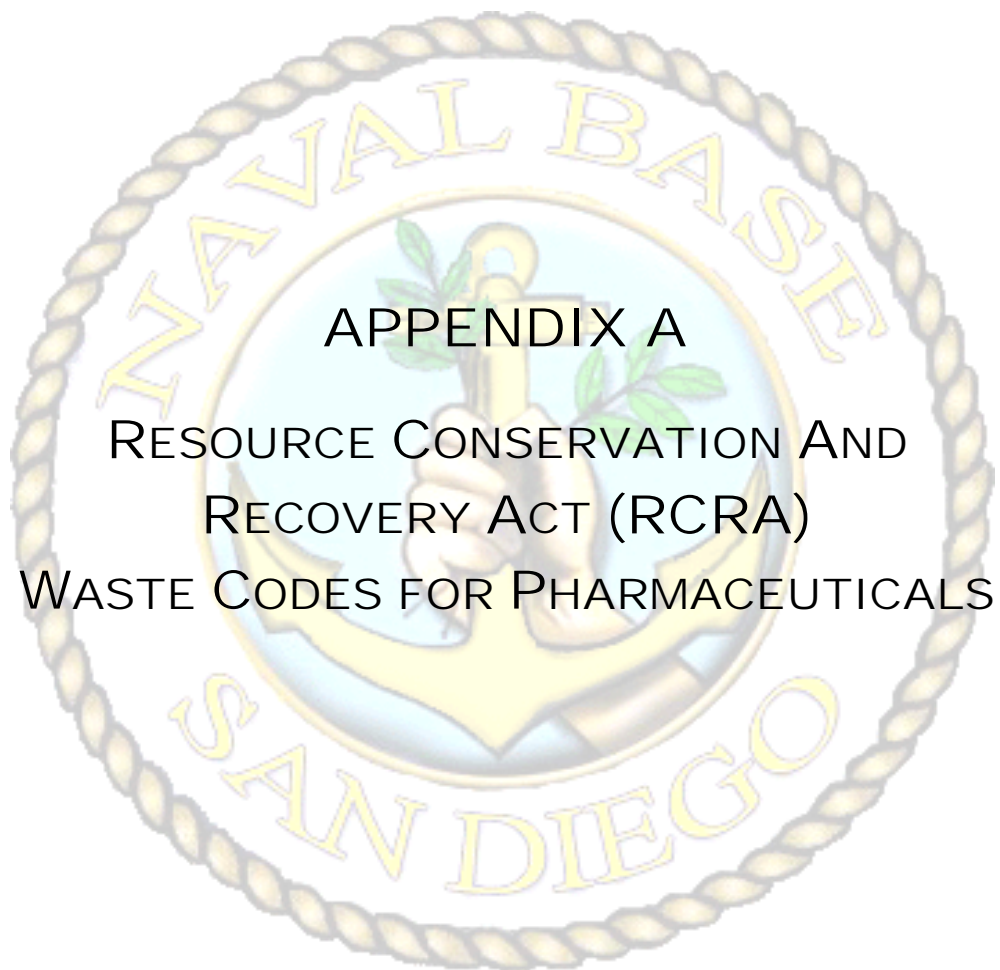
## NAVAL BASE SAN DIEGO ENVIRONMENTAL OFFICE

ENVIRONMENTAL FOCUS AREA/MEDIA	LOCATION	PHONE NUMBER(S)
<b>Trouble Desk</b> , NBSD Environmental Office	NBSD Bldg. 72	(619) 556-1537
<b>Air Quality</b>	NBSD Bldg. 72	(619) 556-0966 or 3649
<b>Hazardous Waste or Medical Waste</b>	NBSD Bldg. 72	(619) 556-1533 or 6798
<b>Industrial Wastewater</b>	NBSD Bldg. 72	(619) 556-1566 or 0995
National Environmental Policy Act ( <b>NEPA</b> )	NBSD Bldg. 72	(619) 556-5418 or 1805
<b>Stormwater</b>	NBSD Bldg. 72	(619) 556-0995 or 1566
<b>Weight Test Water Discharge</b>	NBSD Bldg. 72	(619) 556-1566 or 0995
<b>Waterfront:</b> Piers & Quay-Walls	NBSD Bldg. 72	(619) 556-1805
Naval <b>Medical Center</b> San Diego: NBSD <b>Environmental</b>	NMCSD Bldg. 8	(619) 556-1537

## ADDITIONAL ENVIRONMENTAL SUPPORT SERVICES

FOCUS AREA	POSITION/NAME	PHONE NUMBER(S)
<b>Animals:</b> Sick or Injured On Base	Wildlife Assist Volunteer(s) Ms. Marie Malloy	1 (858) 278-2222 (619) 921-6044
<b>Compressed Gas Cylinder:</b> Turn-In	Stoody Industrial and Welding	(619) 234-6750
	HM Gov't POCs: FISCSD HM Director	(619) 556-6209
	NBSD Zone Manager	(619) 556-6210
<b>Computer Equipment, Legacy:</b> Turn-In	NMCI	1 (866) 843-6624
<b>Electronic Surplus:</b> Turn-In	DLA Disposition Services (Formerly DRMO)	(619) 512-0517 (619) 512-0223
<b>Environmental and Safety Offices</b>	NBSD Environmental Office (or e-mail <a href="mailto:cniswenvnbsandiego@navy.mil">cniswenvnbsandiego@navy.mil</a> )	(619) 556-1537
	CNRSW HW Program Office	(619) 532-2274
	COMNAVSURFPAC Environmental Office	(619) 437-2956
	SOPASUBAREA East Safety Office	(619) 556-4836
<b>Environmental Awareness or Response</b> , NBSD	Environmental Office, NBSD	(619) 556-1537

ADDITIONAL ENVIRONMENTAL SUPPORT SERVICES		
FOCUS AREA	POSITION/NAME	PHONE NUMBER(S)
Environmental <b>Emergency, After Hours</b>	Command Duty Officer, NBSD	(619) 247-8897
Foreign Garbage: Removal	Mr. Oscar Mora	(619) 556-7604
Hazardous Material Excess: Turn-In	Afloat – Contact Your Respective LSR	---- ---- ----
	Shore Activities	(619) 556-9723 (619) 556-9722
	Regional CHRIMP Center, FISCSD	(619) 556-9722 (619) 556-9723
Hazardous Waste: Pickup	NOREAS	(619) 556-9600 (619) 556-9601
	Logistics Support Center, FISCSD	(619) 566-0420
	Regional CHRIMP Center, FISCSD (free issue hazmat)	(619) 556-9722 (619) 556-9723
Medical – Issue and Returns: Unused Medical Equipment, Supplies, & Pharmaceuticals	Expeditionary Health Services Pacific	(619) 571-3801
Medical – Returns: Unused Medical Equipment, Supplies, & Pharmaceuticals	Guaranteed Return Program (GRP) Ms. Monet Bernhardt, FISCSD	(619) 556-0419
Medical Waste Pick-Up, <b>Emergency:</b> (M-F 0800-1500 only)	Environmental Office, NBSD	(619) 556-1537
Oil Spills: <i>Entering Bay</i> (visible sheen/reportable quantity)	Central Oil Recovery, NBSD	(619) 556-8006
	National Response Center	(800) 424-8802
	CA Office of Emergency Services	(800) 852-7550
	Navy On-Scene Commander	(619) 556-3135
	Waterfront Environmental Coordinator	(619) 556-6232
Oil Spills: <i>Land</i> (if spill subsequently enters bay, agencies listed above)	Federal Fire Department	<b>911</b>
Oily Waste and Bilge: Off Load Scheduling	NOREAS Oily Waste Coordinator (Contractor)	(619) 556-9688 (619) 279-9195
	Waterfront Operations (Berthing Services) After Hours:	(619) 556-3147 (619) 556-1433
	NAVFAC Duty Desk	(619) 556-7349
Recycling and Solid Waste	Recycling, Solid Waste Management	(619) 556-9331 (619) 556-9799
Sewage Spills, Leaks, or Releases	NAVFAC Duty Desk & NBSD CDO	(619) 556-7349 (619) 247-8897
Training	Waterfront Environmental Coordinator	(619) 556-6232



APPENDIX A  
RESOURCE CONSERVATION AND  
RECOVERY ACT (RCRA)  
WASTE CODES FOR PHARMACEUTICALS

*(This page left blank intentionally)*

## RESOURCE CONSERVATION AND RECOVERY ACT (RCRA) WASTE CODES FOR PHARMACEUTICALS

Note: This is not an exhaustive list and the generator is ultimately responsible for designating their waste.

PHARMACEUTICALS LISTED	EPA WASTE CODE
(S)-3-(1-Methyl-2-pyrrolidinyl)pyridine (nicotine)	P075
1-Methyl-2-(3pyridyl)pyrrolidine (nicotine)	P075
2H-1,3,2-Oxazaphosphorin-2-amine, N,N-bis(2-chloroethyl)tetrahydro-, 2-oxide (chemotherapy drug)	U058
A/T/S (92% alcohol)	D001
Absolute Alcohol & Dehydrated, P.F.	D001
Acetic Acid	D002
Acetone (nail polish remover/solvent)	U002
Acetophenetidin (phenacetin veterinary analgesic)	U187
Actinomycin D solution in Methanol (non-listed carcinogen)	D001
Aerozoin (44% alcohol)	D001
Alkeran® Tablets (melphalan chemotherapy drug)	U150
Ammonia Aromatic (also vaporole brand)	D001
Amyl Nitrite (oxidizer)	D001
Amyl Nitrite (vaporole brand)	D001
Anbesol (>24% alcohol)	D001
Argyrol S.S. (Silver protein)	D011
Arzol Silver Nitrate	D011
Arzol Silver Nitrate (oxidizer)	D001
Azirino[2',3':3,4]pyrrolo[1,2-a]indole-4,7-dione, 6-amino-8-[[[(aminocarbonyl)oxy]methyl]-1,1a,2,8,8a,8b-hexahydro-8a-methoxy-5-methyl-, [1aS-(1aalpha, 8beta,8aalpha,8balpha)]- (Chemotherapy drug)	U010
B-5 Fixative Solution (used in making bone marrow slides)	D009
Barium Hydroxide crystals (veterinary)	D005
Barium Sulfate suspension (veterinary)	D005
Belustin	U150
Benzoin (non-aerosol spray and compound 74-80% alcohol)	D001
beta-Pyridyl-alpha-Nmethylpyrrolidine (nicotine)	P075
Beta-Val (lotion 47% alcohol)	D001
Beuthanasia - D (veterinary euthanasia solution)	D001
BiCNU (chemotherapy drug)	D001
Brevibloc (>24% alcohol)	D001
Caladryl (aerosol) 85% alcohol	D001
Carmustine (chemotherapy drug)	D001
Castellani Paint (Resorcinol, Phenol Acetone 4% alcohol 10%)	D001
Chlomerodrin (3-chloromercuri-2 methoxypropyl urea) radiopharmaceutical used for diagnosing kidney tumors	D009?
Chloral/chloral hydrate <b>DEA CONTROLLED</b>	U034

## RESOURCE CONSERVATION AND RECOVERY ACT (RCRA) WASTE CODES FOR PHARMACEUTICALS

Note: This is not an exhaustive list and the generator is ultimately responsible for designating their waste.

<i>PHARMACEUTICALS LISTED</i>	<i>EPA WASTE CODE</i>
<i>Chlorambucil (chemotherapy drug)</i>	<i>U035</i>
<i>Chlornaphazine (chemotherapy drug)</i>	<i>D022, U026</i>
<i>Chloroform</i>	<i>U044</i>
<i>Chromagen</i>	<i>D007</i>
<i>Chromium (trace metal-fliptop)</i>	<i>D007</i>
<i>Clay-Park (wart improved flexible Collodion - Ether)</i>	<i>D001</i>
<i>Cleocin T (topical 50% alcohol)</i>	<i>D001</i>
<i>Clinitest (foil pak)</i>	<i>D001</i>
<i>Coal Tar Solution (flammable liquid)</i>	<i>D001</i>
<i>Collodion (also flexible, U.S.P.)</i>	<i>D001</i>
<i>Compound Benzoin Tincture</i>	<i>D001</i>
<i>Compound W</i>	<i>D001</i>
<i>Coumadin ® (warfarin sodium)</i>	<i>P001, U248</i>
<i>Cresylate (M-Cresyl Acetate 25%, Isopropanol 25%)</i>	<i>D001</i>
<i>Cyanide Antidote (If entire kit contains Amyl Nitrate)</i>	<i>D001</i>
<i>Cyclophosphamide (chemotherapy drug)</i>	<i>U058</i>
<i>Cytoxan ® (chemotherapy drug)</i>	<i>U058</i>
<i>Cytoxan ® lyophilized/VHA Plus (cyclophosphamide for injection)(chemotherapy drug)</i>	<i>U058</i>
<i>Daunomycin (chemotherapy drug)</i>	<i>U059</i>
<i>Decaspray (Dexamethasone, alcohol 59%)</i>	<i>D001</i>
<i>Dental amalgam (contains Silver, Mercury, Tin, Copper, Indium, and Zinc)</i>	<i>D009, D011</i>
<i>Dental antiseptic rinse</i>	<i>D001</i>
<i>Dental breath deodorant</i>	<i>D001</i>
<i>Dermatological solution - ph. 1.8 - 2.8 (veterinary)</i>	<i>D002</i>
<i>Dichlorobenzene (moth repellent and deodorizer blocks)</i>	<i>U072</i>
<i>Dicumarol</i>	<i>P001</i>
<i>Dicumarol (aka dicoumarol)</i>	<i>U248</i>
<i>Diethylstilbesterol (chemotherapy drug)</i>	<i>U089</i>
<i>Dip-A-Way (veterinary use, contains Merbromin)</i>	<i>D009</i>
<i>Ear lotions (veterinary)</i>	<i>D001</i>
<i>Emgel (topical 77% alcohol)</i>	<i>D001</i>
<i>Enemas and some colorings</i>	<i>D005</i>
<i>Erycette (66% alcohol)</i>	<i>D001</i>
<i>Eryderm (77% alcohol)</i>	<i>D001</i>
<i>Erygel (topical 92% alcohol)</i>	<i>D001</i>

## RESOURCE CONSERVATION AND RECOVERY ACT (RCRA) WASTE CODES FOR PHARMACEUTICALS

Note: This is not an exhaustive list and the generator is ultimately responsible for designating their waste.

<i>PHARMACEUTICALS LISTED</i>	<i>EPA WASTE CODE</i>
<i>Erymax (topical 66% alcohol)</i>	<i>D001</i>
<i>Erythromycin Solution (topical 66% alcohol)</i>	<i>D001</i>
<i>Eserine (physostigmine)</i>	<i>P204</i>
<i>Eserine Salicylate (physostigmine salicylate)</i>	<i>P188</i>
<i>Ethyl Chloride (fine spray)</i>	<i>D001</i>
<i>Ethyl ether (I)</i>	<i>U117</i>
<i>Ethyl Rubbing Alcohol</i>	<i>D001</i>
<i>Ethylene oxide (I,T) (sterilizing gas)</i>	<i>U115</i>
<i>Etoposide (chemotherapy drug)</i>	<i>D001</i>
<i>Eugenol U.S.P. (dental)</i>	<i>D001</i>
<i>Exsel (selenium sulfide shampoo)</i>	<i>U205</i>
<i>Fixation Solution (veterinary)</i>	<i>U122</i>
<i>Flea and tick spray (veterinary)</i>	<i>D001</i>
<i>Flea, lice, and tick spray (veterinary) - Only if Pyridine the sole active ingredient</i>	<i>D001, P075</i>
<i>Fluogen - thimerasol preserved vaccine</i>	<i>D009</i>
<i>Fluorescein Sodium Ophthalmic strips (veterinary)</i>	<i>D009</i>
<i>Fluori-methane (If it contains Dichlorodifluoromethane/U075 or Trichloromonofluoromethane/U121 as active ingredients)</i>	<i>U075, U121</i>
<i>Fluzone (Thimerasol preserved vaccine)</i>	<i>D009</i>
<i>Formaldehyde</i>	<i>U122</i>
<i>Formalyde - 10 Spray (contains 10% Formaldehyde)</i>	<i>U122</i>
<i>Formo Cresol (dental)</i>	<i>D001, D026</i>
<i>Freezone ® (corn remover - flexible Collodion)</i>	<i>D001</i>
<i>Fungi-Nail ® (50% alcohol)</i>	<i>D001</i>
<i>Green Soap Tincture</i>	<i>D001</i>
<i>G-Well (lindane shampoo)</i>	<i>U129</i>
<i>Habitrol ® (nicotine)</i>	<i>P075</i>
<i>Hair grooming sprays (veterinary)</i>	<i>D001</i>
<i>Hematin (staining solution, contains Mercuric Oxide)</i>	<i>D009</i>
<i>Hematoxalyn Stain (contains Mercuric Oxide)</i>	<i>D009</i>
<i>Hurricaine (w/ Benzocaine-20%, CHE - spray flammable)</i>	<i>D001</i>
<i>Idarubicin/Idamycin ® (chemotherapy drug)</i>	<i>U059</i>
<i>Instrument lubricant (veterinary)</i>	<i>D005</i>
<i>Insulin (some containing Cresol)</i>	<i>D024</i>
<i>Kwell (Lindane shampoo)</i>	<i>U129</i>
<i>Leptospirosis Bacterins Vaccines (cattle, swine &amp; dogs - contains Thimerosol)</i>	<i>D009</i>



## RESOURCE CONSERVATION AND RECOVERY ACT (RCRA) WASTE CODES FOR PHARMACEUTICALS

Note: This is not an exhaustive list and the generator is ultimately responsible for designating their waste.

<i>PHARMACEUTICALS LISTED</i>	<i>EPA WASTE CODE</i>
<i>Leukeran ® (chlorambucil chemotherapy drug)</i>	<i>U035</i>
<i>Lindane (lice shampoo and spray)</i>	<i>U129</i>
<i>Listerine ® Antiseptic (original formula when &gt;24% alcohol)</i>	<i>D001</i>
<i>M.T.E. (4, M.D.)</i>	<i>D007, D010</i>
<i>M.T.E. (5, S.D.)</i>	<i>D007, D010</i>
<i>m-Dihydroxybenzene (benzenediol (resorcinol))</i>	<i>U201</i>
<i>Medical Tubes (Maloney &amp; Hurst Bougies - 45 gm to 1 kg mercury. Miller-Abbot &amp; Cantor tubes. Used in surgical units, ICU &amp; CCU).</i>	<i>D009</i>
<i>Melphalan (chemotherapy drug)</i>	<i>U150</i>
<i>Merbromin</i>	<i>D009</i>
<i>Mercuric oxide, yellow (ophth.)</i>	<i>D009</i>
<i>Mercurochrome</i>	<i>D007</i>
<i>Mercurochrome</i>	<i>D009</i>
<i>Mercury</i>	<i>U151</i>
<i>Mercury ammoniated</i>	<i>D009</i>
<i>Mercury containing devices: thermostats, motion activated lights (sneakers &amp; jewelry), thermometers, mildicides (paint additive), manometers</i>	<i>D009</i>
<i>Mercury diuretics</i>	<i>D009</i>
<i>Mercury fulminate (R,T)</i>	<i>P065</i>
<i>Mercury, (acetato-O)phenyl-</i>	<i>P092</i>
<i>Merthiolate</i>	<i>D009</i>
<i>Methapyrilene (antihistamine and a carcinogen)</i>	<i>U155</i>
<i>Methyl Alcohol (Methanol)</i>	<i>D001</i>
<i>m-hydroxyphenol (Resorcinol)</i>	<i>U201</i>
<i>Mitomycin C (chemotherapy drug)</i>	<i>U010</i>
<i>Multiple Trace Element (S.D.V., P; S.D.V., W)</i>	<i>D007, D010</i>
<i>Mutamycin ®/Mutamycin VHA Plus ® (mitomycin chemotherapy drug)</i>	<i>U010</i>
<i>Myleran (busulfan)</i>	<i>U150</i>
<i>Nail Polish remover (flammable solvent mixture)</i>	<i>D001</i>
<i>Naphthalene (mothballs)</i>	<i>U165</i>
<i>Neosar ® (cyclophosphamide)</i>	<i>U058</i>
<i>New-Skin (flexible collodion)</i>	<i>D001</i>
<i>Nicoderm ® (transdermal system)</i>	<i>P075</i>
<i>Nicorette ® (nicotine)</i>	<i>P075</i>
<i>Nicotine &amp; salts (antismoking gum, tablets/capsules, and patches)</i>	<i>P075</i>

## RESOURCE CONSERVATION AND RECOVERY ACT (RCRA) WASTE CODES FOR PHARMACEUTICALS

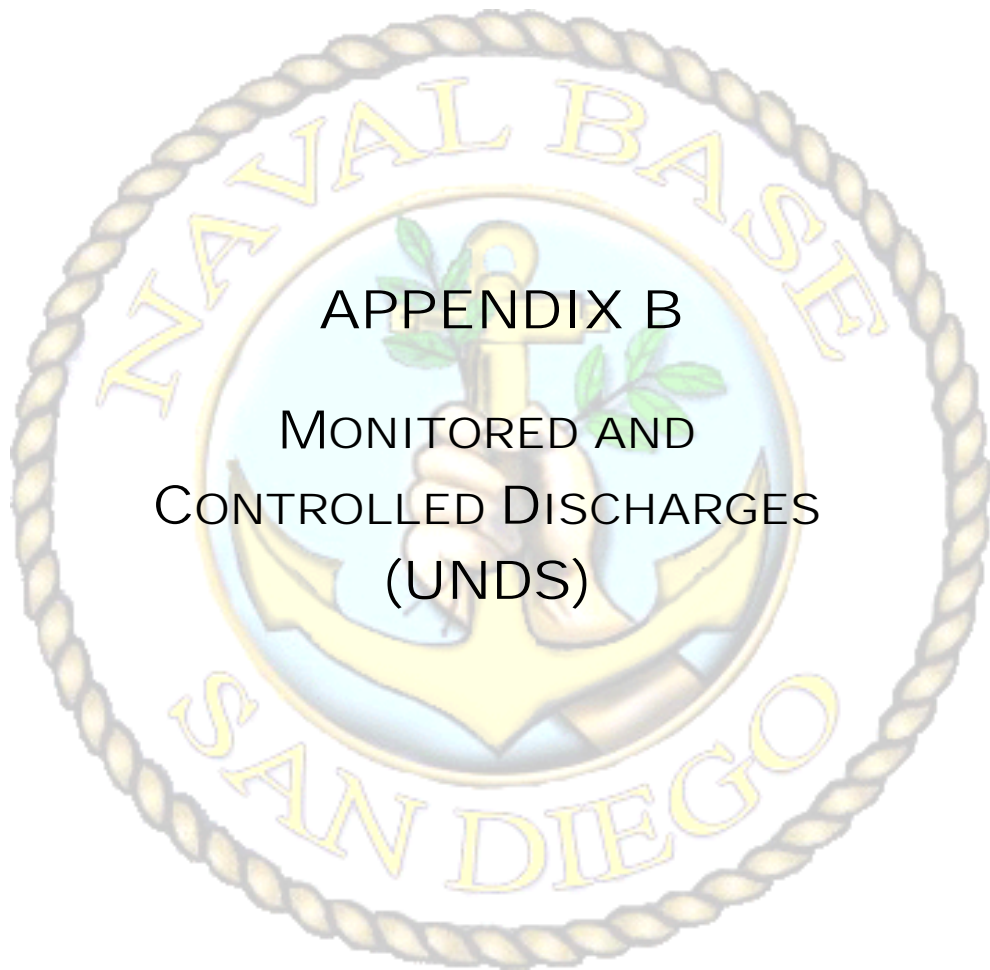
Note: This is not an exhaustive list and the generator is ultimately responsible for designating their waste.

PHARMACEUTICALS LISTED	EPA WASTE CODE
Nicotrol <sup>®</sup> (transdermal nicotine system)	P075
Nitropress (Nitroprussic acid, Nipride, Nitroprusside.) May contain cyanide. Administered in IV sol. for high blood pressure.	D003?
Nyquil (>24% alcohol)	D001
Oxalic Acid Crystals	D002
Oxipor VHC	D001
Pacitaxel (chemotherapy drug)	D001
Para-dichlorobenzene (moth repellant)	U072
Paral <sup>®</sup> (paraldehyde 30 ml vials) <b>DEA CONTROLLED</b>	U182
Paraldehyde (sedative <b>DEA CONTROLLED</b> )	U182
Phenacetin	U187
Phenylmercuric acetate (ophthalmic solution)	D009, P092
Phenylmercuric nitrate (ophthalmic solution)	D009
Phenylmercury acetate	P092, D009
Phosphocol P32 injection (Chromic Phosphate 7 mil/ml)	D007
Photographic waste	D011
Physostigmine [treat glaucoma (ophthalmic solution) & Alzheimer]	P204
Physostigmine Salicylate	P188
Podocon-25 (Benzoin Tincture - flammable)	D001
Podofin (flammable)	D001
Potassium Permanganate	D001
Prostep <sup>®</sup> (nicotine)	P075
Reserpine (antihypertensive)	U200
Reserpine (white scored)	U200
Resorcinol	U201
Rubomycin (daunomycin)	U059
RX-ICK Control (veterinary use, contains Merbromin)	D009
S.D. Alcohol 40-A & 40-B (specially dewatered)	D001
Saccharin (only listed if not mixed with a second sweetener, ex. dextrose) NOTE: In 2010, EPA removed saccharin & its salts from the lists of HW.	U202
Sal-Plant Gel (flexible Collodion)	D001
Salicylic Acid	D002
Selenium (w/yeast)	D010
Selenium sulfide (ointment and shampoos)	U205
Selepen (M.D. & S.D.)	D010
Selsun	U205

## RESOURCE CONSERVATION AND RECOVERY ACT (RCRA) WASTE CODES FOR PHARMACEUTICALS

Note: This is not an exhaustive list and the generator is ultimately responsible for designating their waste.

<i>PHARMACEUTICALS LISTED</i>	<i>EPA WASTE CODE</i>
<i>Silvadene</i>	<i>D011</i>
<i>Silver Nitrate (ophth) (oxidizer)</i>	<i>D001, D011</i>
<i>Silver Nitrate (oxidizer, toxic)</i>	<i>D011, D001</i>
<i>Silver Nitrate applicator sticks (oxidizer)</i>	<i>D001, D011</i>
<i>Silver Sulfadiazine (tube) a/k/a SSD AF</i>	<i>D011</i>
<i>Slide stain solutions</i>	<i>D001</i>
<i>Sphygmomanometers</i>	<i>D009</i>
<i>Sterilized Sutures (veterinary)</i>	<i>D001, D007</i>
<i>Stilphostrol ® (diethylstilbestrol injection and tablets)</i>	<i>U089</i>
<i>Streptozotocin (chemotherapy drug)</i>	<i>U206</i>
<i>Strychnine</i>	<i>P108</i>
<i>Tannic Acid (U.S.P.) If in powder form</i>	<i>D002</i>
<i>Taxol (chemotherapy drug)</i>	<i>D001</i>
<i>Tetrahydronicotyrine (nicotine)</i>	<i>P075</i>
<i>Texacort Lotion (33% alcohol)</i>	<i>D001</i>
<i>Thallium Chloride (Thallium 210) - radionuclide used in stress tests. Decays to mercury. Also contains 0.25% lead as impurity at time of production (1ml dose).</i>	<i>U216</i>
<i>Thermometers (mercury only)</i>	<i>D009</i>
<i>Thiomersal (50% mercury)</i>	<i>D009</i>
<i>Tin-Ben, Tin-Co-Ben, and Tincture of Benzoin (&gt;24% alcohol)</i>	<i>D001</i>
<i>Tincture of Belladonna (atropine, 60% alcohol solution)</i>	<i>D001</i>
<i>Toluidine Blue (o-toluidine)</i>	<i>U328</i>
<i>Topicycline (&gt;24% alcohol)</i>	<i>D001</i>
<i>Tornalate (Bitolterol Mesylate, bronchial asthma dilator, &gt; 24% alcohol)</i>	<i>D001</i>
<i>Treosulfan (chemotherapy drug)</i>	<i>U150</i>
<i>Uracil Mustard (chemotherapy drug)</i>	<i>U237</i>
<i>Uramustine (uracil mustard)</i>	<i>U237</i>
<i>Vaccines containing Thiomersal (human and animal)</i>	<i>D009</i>
<i>Valu-Rite (Selenium, Nat)</i>	<i>D010</i>
<i>Vepesid (chemotherapy drug)</i>	<i>D001</i>
<i>Warfarin, &lt; 0.3% (anticoagulant and rat poison)</i>	<i>U248</i>
<i>Warfarin™ &gt; 0.3% (anticoagulant and rat poison)</i>	<i>P001</i>
<i>Wound Control (veterinary, contains merbromin)</i>	<i>D009</i>



APPENDIX B  
MONITORED AND  
CONTROLLED DISCHARGES  
(UNDS)

*(This page left blank intentionally)*

## MONITORED AND CONTROLLED DISCHARGES (UNDS)

### Monitored discharges applicable at NBSD:

- **Cathodic Protection:** The constituents released into surrounding water from sacrificial anode or impressed current cathodic hull corrosion protection systems.
- **Freshwater Lay-up:** The potable water that is discharged from the seawater cooling system while the vessel is in port and the cooling system is in lay-up mode (a standby mode where seawater in the system is replaced with potable water for corrosion protection).
- **Mine Countermeasures Equipment Lubrication:** The constituents released into the surrounding seawater by erosion or dissolution from lubricated mine countermeasures equipment when the equipment is deployed and towed.
- **Portable Damage Control Drain Pump Discharge:** The seawater pumped through the portable damage control drain pump and discharged overboard during testing, maintenance, and training activities.
- **Refrigeration and Air Conditioning Condensate:** The drainage of condensed moisture from air conditioning units, refrigerators, freezers, and refrigerated spaces.
- **Rudder Bearing Lubrication:** The oil or grease released by the erosion or dissolution from lubricated bearings that support the rudder and allow it to turn freely.
- **Steam Condensate:** The condensed steam discharged from a vessel in port, where the steam originates from port facilities.
- **Stern Tube Seals and Underwater Bearing Lubrication:** The seawater pumped through stern tube seals and underwater bearings to lubricate and cool them during normal operation.

## Controlled discharges applicable at NBSD:

- **Chain Locker Effluent:** The accumulated precipitation and seawater that is emptied from the compartment used to store the vessel's anchor chain. The small amount of water that is washed into the chain locker eventually drains through the bottom grating and into the sump where it can come into contact with paint chips, rust, grease, and sacrificial zinc anodes. Chain locker effluent is discharged when the chain locker sump is emptied directly overboard.
- **Clean Ballast:** Either seawater or freshwater that is transferred into and out of dedicated tanks to adjust a surface ship's draft and to improve stability under various operating conditions. The discharge is generated when the ballast is no longer required and the tanks are partially or completely emptied.
- **Compensating Fuel Ballast:** Seawater that is introduced into fuel tanks to maintain the stability of a vessel by compensating for the weight of the expended fuel that is consumed. During refueling, this seawater is displaced overboard.
- **Deck Runoff:** Water runoff from precipitation, freshwater wash-downs, and seawater that falls on the exposed decks of a vessel.
- **Distillation and Reverse Osmosis (RO) Brine:** The concentrated seawater (i.e., brine) produced as a byproduct of the process used to generate freshwater from seawater in distilling and RO equipment and machinery. The brine primarily consists of seawater, but can also contain materials from these processes, such as nutrients and anti-scaling treatment chemicals as well as some metals, including copper and zinc.
- **Elevator Pit Effluent:** The liquid that accumulates in, and is discharged from, the sumps of elevator wells on vessels.
- **Firemain Systems:** Seawater distributed for firefighting and other services aboard ships. Discharges of firemain water from normal operations occur during firemain testing, maintenance and training activities, anchor chain wash-down, and cooling of auxiliary machinery.
- **Gas Turbine Water Wash:** The water released from washing shipboard gas turbine components. Does not include water wash cleaning of aircraft gas turbine engines aboard ship.
- **Non-Oily Machinery Wastewater:** The combined wastewater from the operation of distilling plants, water chillers, valve packings, water piping, low and high-pressure air compressors, and propulsion engine jacket coolers.
- **Photographic Laboratory Drains:** Laboratory wastewater resulting from the processing of photographic film. The wastewater results from the processing of color, black and white, and X-ray film.

- **Seawater Cooling Overboard Discharge:** The discharge of seawater from dedicated piping systems that provide non-contact cooling water for other vessel systems.
- **Seawater Piping Biofouling Prevention:** Seawater containing additives used to prevent the growth and attachment of biofouling organisms in dedicated seawater systems on vessels.
- **Small Boat Engine Wet Exhaust:** The seawater that is mixed and discharged with small boat propulsion engine exhaust to cool the exhaust and quiet the engine.
- **Underwater Ship Husbandry:** Discharge from the grooming, maintenance, and repair of hulls and hull appendages performed while a vessel is waterborne. Underwater ship husbandry includes hull cleaning, fiberglass repair, welding, sonar dome repair, non-destructive testing, masker belt repairs, and painting operations.
- **Welldeck Discharges:** Discharges that include the water that accumulates from seawater flooding of the docking (i.e., welldeck) of an amphibious support vessel used to transport, load, and unload amphibious vehicles, and from maintenance and freshwater washings of the welldeck and equipment and vessels stored in the welldeck.



*(This page left blank intentionally)*




























APPENDIX C  
NAVOSHENVNVCEN  
COMPATIBILITY CHART

*(This page left blank intentionally)*



# NAVOSHEN VTRACEN COMPATIBILITY CHART



HMUG GROUP	HCC see note 2	GROUP NAME	EXAMPLES	INCOMPATIBLE MATERIALS	EXAMPLES	REACTION IF MIXED
1	C1, C2, C4, C5	ACIDS 	Battery Acid Paint Removers De-Rust Spray	FLAMMABLES/ COMBUSTIBLES ALKALIS/BASES/CAUSTICS OXIDIZERS (HMUG Groups 2, 3, 4, 6, 7, 9, 10, 11, 12, 13, 14, 15, 17, 18, 19, 20, 22)	Degreasers, Carbon Removers, Anti-Fogging Compounds	HEAT Gas Generation 
2	F1 to F7, P1, T6, V3, V4	ADHESIVES	Epoxies Isocyanates Diethylenetriamine 	ACIDS ALKALIS/BASES/CAUSTICS OXIDIZERS (HMUG Groups 1, 3, 18)		HEAT FIRE HAZARD 
3	B1, B2	ALKALIES BASES/ CAUSTICS 	Ammonia Sodium Hydroxide Cleaners	ACIDS/OXIDIZERS FLAMMABLES/COMBUSTIBLES (HMUG Groups 1, 2, 6, 8, 9, 10, 11, 14, 17, 18, 19, 20, 22)	Battery acid, Paint Removers, De-Rust Sprays, Paints, Solvents	HEAT Gas Generation VIOLENT REACTION 
4	C1-C4, B1-B3, F2 to F7, T4, T6, V2-V4	CLEANING COMPOUNDS	Degreasers Carbon Removers Antifogging Compounds	DETERGENTS/SOAPS OXIDIZERS (HMUG Groups 1, 7, 18)	Calcium Hypochlorite, Sodium Nitrite, Hydrogen Peroxide	HEAT FIRE HAZARD 
5	G1 to G9	COMPRESSED GASES 	Acetylene, Propane, Nitrogen, Argon, Helium, Oxygen	HEAT SOURCES Consult paragraph C23 for specific handling and stowage guidance (HMUG Groups 8, 9, 10, 11, 12, 15, 18, 19)		FIRE HAZARD EXPLOSION HAZARD 
6	F2 to F5, T6, V2, V3, V4	CORROSION PREVENTIVE COMPOUNDS	Corrosion Inhibitors Chemical Conversion Compounds	ACIDS/BASES OXIDIZERS IGNITION SOURCES (HMUG Group 1, 3, 18, 20)		FIRE HAZARD 
7	B3	DETERGENTS/ SOAPS	Trisodium Phosphate Scouring Powders Disinfectants	ACID-CONTAINING COMPOUNDS (HMUG Groups 1, 4, 18)	Battery Acid, Paint Removers De-Rust Sprays	VIOLENT REACTION HEAT 
8	F8, V6, V7	GREASES 	Lithium Grease Silicone Molybdenum	OXIDIZERS ALKALIS/BASES/CAUSTICS (HMUG Groups 3, 5, 18)		FIRE HAZARD HEAT 
9	T6, V4, V6, V7	HYDRAULIC FLUIDS	Petroleum-Based Synthetic Fire-Resistant	CORROSIVES, OXIDIZERS (HMUG Groups 1, 3, 5, 18)		VIOLENT REACTION 
10	F2 to F4, T4, T6, V2-V6	INSPECTION PENETRANTS	Petroleum-Based Dyes	CORROSIVES, OXIDIZERS (HMUG Groups 1, 3, 5, 18)	Battery Acid Caustic Soda Chlorine laundry bleach Calcium Hypochlorite Hydrogen Peroxide OBA Canisters Paint Removers	
11	F4, T6, V2, V3, V4, V6	LUBRICANTS/ OILS	General Purpose, Gear, Turbine, Weapons			EXPLOSION HAZARD 
12	F2 to F6, P1, T3, T4, T6, V1-V4	PAINT MATERIALS 	Primers, Enamels, Urethanes, Lacquers, Varnishes, Non-Skid, Thinners	ACIDS, OXIDIZERS (HMUG Groups 1, 5, 18)		HEAT FIRE HAZARD 
13	C1-C4, B1-B3, D1	PHOTO CHEMICALS	Developers, Stopbath, Toners, Bleaches, Replenishers	ACIDS HEAVY METALS (HMUG Groups 1, 18, 20)		HEAT FIRE HAZARD 
14	F4	POLISH/WAX COMPOUNDS	Buffing Compounds Metal Polishes General Purpose Waxes	CORROSIVES OXIDIZERS (HMUG Groups 1, 3, 18)		HEAT, FIRE HAZARD VIOLENT REACTION 
15	F2 to F6, T3, T4, T6, V1-V4	SOLVENTS	Methyl Ethyl Ketone (MEK) Toluene, Xylene Acetone	CORROSIVES OXIDIZERS BATTERIES (HMUG Groups 1, 5, 18, 21, 22)	Battery Acid Calcium Hypochlorite Sodium Nitrite Sodium Hydroxide	HEAT FIRE HAZARD 
16	T6, T7, Z1	THERMAL INSULATION	Asbestos Fiberglass Glass Wool	MATERIAL IS NOT REACTIVE KEEP DRY		NO REACTION
17	C1-C4, B1-B3, D1	WATER TEST/ TREATMENT CHEMICALS	Nitric Acid Mercuric Nitrate Caustic Soda	CORROSIVES OXIDIZERS HEAVY METALS (HMUG Groups 1, 3, 18, 20, 21)		HEAT VIOLENT REACTION 
18	D1 to D4	OXIDIZERS 	Calcium Hypochlorite Laundry Bleach OBA Canisters	PETROLEUM BASED MATERIALS FUELS, SOLVENTS, CORROSIVES, HEAT (HMUG Groups 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 17, 19, 20, 21, 22)		FIRE HAZARD VIOLENT REACTION EXPLOSION HAZARD TOXIC GAS GENERATION 
19	F1 to F4, V4, V5, V6	FUELS	JP4, JP5 Gasoline Diesel Fuel	CORROSIVES OXIDIZERS (HMUG Groups 1, 3, 5, 18)	Battery Acid Calcium Hypochlorite Sodium Nitrite Sodium Hydroxide	FIRE HAZARD TOXIC GAS GENERATION
20	T6, V7, Z2	HEAVY METALS	Mercury Lead Beryllium	CORROSIVES OXIDIZERS WATER TREATMENT/PHOTO CHEMICALS (HMUG Groups 1, 3, 6, 13, 17, 18, 21)		VIOLENT REACTION GENERATION OF TOXIC AND FLAMMABLE GAS
21	Z4 to Z7	BATTERIES	Lead-Acid Dry-Cell Alkaline	SOLVENTS HEAVY METALS OXIDIZERS (HMUG Groups 15, 17, 18, 20)	Xylene Toluene Alcohol	HEAT VIOLENT REACTION TOXIC GAS GENERATION 
22	T2 to T6	PESTICIDES	Insecticides, Fungicides Rodenticides Fumigants	CORROSIVES OXIDIZERS (HMUG Groups 1, 3, 15, 18)		TOXIC GAS GENERATION

*(This page left blank intentionally)*



## APPENDIX D

### REGULATED (FOREIGN) GARBAGE BEST MANAGEMENT PRACTICES

*(This page left blank intentionally)*

## REGULATED GARBAGE DEFINITION FOR U.S. NAVY VESSELS

All waste material and foreign food stores that are derived in whole or in part from fruits\*, vegetables\*, meats, or other plant or animal (including poultry) material, and other materials that have been associated (commingled) with any such material.

Includes:

- food scraps
- food wrappers or packaging materials (e.g., plastic, cardboard) from stores, galleys, mess areas, and berthing areas
- table refuse
- galley refuse
- **plastic pucks (ships), plastic logs (submarines)**

Trash is refuse that neither contains nor is visually contaminated with regulated garbage. Trash is not regulated by USDA APHIS and is therefore unrestricted. For example:

### Unrestricted:

- Trash that only contains empty soda cans
- Trash that contains newspapers and magazines

### Restricted:

- Trash that contains empty cardboard milk carton, sandwich, or fruit – **All of it is regulated garbage due to commingling**

\* If transit is between CONUS/Alaska/Canada and Hawaii/U.S. territories/possessions, or between Hawaii, U.S. territories, and U.S. possessions, only **fresh** fruits and vegetable (FF&V) and regulated garbage must be disposed of per USDA APHIS regulations; meat and other animal materials are exempt.

## EXAMPLE APPLICATIONS OF USDA APHIS RG REGULATIONS FOR U.S. NAVY VESSELS

Vessel returns from Japan and stops in Hawaii for 5 days, then heads to San Diego:

- a. RG process in Hawaii – all foreign plant/animal food stores and regulated garbage
- b. RG process in San Diego – only FF&V and regulated garbage



Vessel returns from foreign port and stops in Guam for 5 days, then heads to Hawaii:

- a. RG process in Guam – all foreign plant/animal food stores and regulated garbage
- b. RG process in Hawaii – only FF&V and regulated garbage

Vessel returns from foreign port and stops in first U.S. port for less than 24 hours, then heads to Norfolk:

- a. RG process in first U.S. port – all foreign plant/animal food stores and regulated garbage
- b. RG process in Norfolk? Yes, 24-hour rule was not completed in first U.S. port and must be performed in Norfolk.

Avoid unnecessary costs of repeating RG process at consecutive CONUS port visits by ensuring ship schedule allows completion of RG process at the first CONUS port.

**ANY VESSEL THAT TRIGGERS THE USDA APHIS RG REQUIREMENTS BY VISITING PORTS OUTSIDE OF CONUS, ALASKA, AND CANADA WITHIN THE PREVIOUS TWO YEARS (FOREIGN PORTS) OR PREVIOUS ONE YEAR (PORTS IN HAWAII, U.S. TERRITORIES, OR U.S. POSSESSIONS), WILL HAVE RG FOR OFFLOAD UPON RETURN TO THE FIRST U.S. PORT AND GENERATE/OFFLOAD REGULATED GARBAGE THROUGH THE 24-HOUR RULE, EVEN IF THE VESSEL ONLY RECEIVED U.S. FOOD STORES WHILE DEPLOYED. THIS IS TO MITIGATE THE RISK POSED BY UNDOCUMENTED (E.G., PERSONAL) PURCHASES OF FOREIGN FOODS.**

## **REGULATED GARBAGE MANAGEMENT/OFFLOAD BEST PRACTICES**

Prior to U.S. port arrival:

- a. Vessel orders a sufficient number of clear, 3-mil (0.003-inch) thick plastic bags (below), zip ties or duct tape, and RG bag labels (see step e):
  - I. 30 gal, 30" x 30", NSN 8105-00-070-9496
  - II. 60 gal, 36" x 60", NSN 8105-01-399-4814 (2-box minimum MILSTRIP/GSA order)
- b. Vessel orders a sufficient number of shore-side RG containers prior to U.S. arrival. Consider:

- I. Size and weight restrictions of RG containers available at the particular port (e.g., a container of only plastic pucks could exceed the weight limit)
  - II. Volumes of RG coming from the food service **and** engineering (plastic pucks and other wastes that have been commingled with RG) departments.
- c. After pulper(s) and plastic waste processor(s) have been shut down at the end of deployment, keep trash (see definition above) separate from RG and clearly labeled as “NOT Regulated Garbage.”
- d. Send All Hands message (template at end of this document).
- e. All RG must be put in clear plastic bags that are at least 3-mil thick and intact/leak-proof. Bags must be securely closed (e.g., twisted shut and taped, zip-tied) and labeled as “Regulated Garbage” using the materials below.
- I. Zip ties, NSN 5975-01-034-5871 or similar
  - II. Duct tape, NSN 5640-00-103-2254 or similar
  - III. RG bag label, NSN 7690-01-676-7481, or clearly labeled using permanent marker or similar

Upon arrival at first U.S. port, at the direction of the USDA APHIS or U.S. CBP inspector, or person designated by USDA APHIS/U.S. CBP, vessel offloads all properly bagged RG into the shore-side RG container.

a. **DO . . .**

- I. Contain RG in leak-proof, 3-mil thick plastic bags.
- II. Place RG only in the shore-side RG container
- III. Keep RG container doors closed except when placing RG into the container.
- IV. Report any RG spill to the proper organization. Refer to the Port Environmental Manual (PEM).

b. **DON'T . . .**

- I. Place any loose waste or open/leaky bags in the RG container. The RG hauler can refuse to pick up the container until all RG has been properly bagged and RG container is cleaned (REQUIRES DUMPSTER DIVING).
- II. Place non-RG (e.g. industrial waste, HM/W) into the RG container.

- III. Place RG bags on the ground next to or on top of the RG container.
- IV. Overfill RG container. Container doors should be completely closeable.



Non-compliant: Bag is not 3-mil, not securely closed.



Compliant: All RG is in 3-mil bags and securely closed.



Non-compliant: RG container is open, holds loose RG.



Compliant: RG container is closed.

24-hour rule (per NAVSUP Publication 486):

- a. If there are no FF&V or foreign stores aboard the vessel, and all regulated garbage has been offloaded, all galley/scullery garbage produced during the first 24 hours in-port will be handled and disposed of as RG. After the first 24 hours, food service garbage produced onboard is not regulated (unrestricted trash) and no further action is required.

**NOTE: Vessels cannot hold all waste for 24 hours after arrival and then discharge all as trash (unrestricted/domestic).**

**NOTE: If the first U.S. port visit is less than 24 hours, the vessel must fulfill the 24-hour rule at the next U.S. port (requires shore-side RG container(s) at the second U.S. port).**

Subsequent visits to ports outside of CONUS, Alaska, and Canada will trigger regulated garbage requirements again.

## **WASTE MANAGEMENT RECOMMENDATIONS:**

- a. Consume all foreign source stores and/or dispose of foreign stores and food wastes according to Naval Ships' Technical Manual Chapter 593.
- b. Keep materials (e.g., paper, cardboard, plastic waste) that are not associated with RG items separate and clearly label the stowage container(s) as non-RG.
- c. The vessel may want to post a watch on the shore-side RG container(s) to prevent others from putting inappropriate waste in the RG container.



**PLEASE READ THE ENTIRE FOLLOWING SECTION  
AS IT WILL SAVE YOU FROM RE-SORTING TRASH**



## **REGULATED (FOREIGN) GARBAGE SHIP ALL HANDS TEMPLATE**

We must follow USDA requirements when disposing of all food and food-related wastes that contain fruits, vegetables, meat, or poultry, and other materials that have been associated with them (e.g., food wrappers/packaging, cardboard, PLASTIC PUCKS). This waste is Regulated Garbage (RG) (also referred to as Foreign Garbage) and must be disposed of as follows:

- Bagged in clear, 3-mil (0.003-inch) thick plastic bags.
- Bags not to exceed 35 pounds each.
- Bags must be intact (if ripped, place in another 3-mil thick bag) and secured with duct tape or zip ties.
- Identified as Regulated Garbage using “Regulated Garbage” labels (NSN TBD) or permanent marker.
- Only placed into the shore-side container labeled as Regulated Garbage.

RG containers found holding loose or improperly-bagged RG or non-RG (industrial waste, HM/W) will require dumpster diving to bring the RG container into compliance.

If RG is found in a regular/domestic trash dumpster, the entire dumpster contents must be handled as Regulated Garbage, properly bagged, and put into an RG container.

After all RG has been offloaded, the ship will operate under the 24-hour rule in which all garbage generated by the galley(s)/scullery(s) for the next 24 hours is managed as RG. After 24 hours, the ship will return to standard domestic trash procedures.

Non-RG (soda cans, water bottles, paper, etc. that have not been in contact with RG) must be disposed of as follows:

- Placed in any type of bag EXCEPT the clear, 3-mil thick bags used for RG.
- Clearly-labeled as non-RG.
- Offloaded to the regular/domestic trash dumpster or recycle bin.

HM or containers that had HM in them will remain onboard and offload coordinated through Supply.

*(This page left blank intentionally)*

*(This page left blank intentionally)*



***Naval Base San Diego Environmental Office***