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**Title 40 —Protection of Environment**  
**Chapter I —Environmental Protection Agency**  
**Subchapter D —Water Programs**

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## Appendix A to Part 139

Federally-Protected Waters

# PART 139—DISCHARGES INCIDENTAL TO THE NORMAL OPERATION OF VESSELS

**Authority:** 33 U.S.C. 1251 *et seq.*

**Source:** 89 FR 82131, Oct. 9, 2024, unless otherwise noted.

## Subpart A—Scope

### § 139.1 Coverage.

- (a) **Vessel discharges.** Except as provided in paragraph (b) of this section, this part applies to:
  - (1) Any discharge incidental to the normal operation of a vessel; and
  - (2) Any discharge incidental to the normal operation of a vessel (such as most graywater) that is commingled with sewage, subject to the conditions that:
    - (i) Nothing in this part prevents a State from regulating sewage discharges; and
    - (ii) Any such commingled discharge must comply with all applicable requirements of:
      - (A) This part; and
      - (B) Any law applicable to the discharge of sewage.
- (b) **Exclusions.** This part does not apply to any discharge:
  - (1) Incidental to the normal operation of:
    - (i) A vessel of the Armed Forces subject to 33 U.S.C. 1322(n);
    - (ii) A recreational vessel subject to 33 U.S.C. 1322(o);
    - (iii) A small vessel or fishing vessel, except that this part applies to any discharge of ballast water from a small vessel or fishing vessel; or
    - (iv) A floating craft that is permanently moored to a pier, including, but not limited to, a floating casino, hotel, restaurant, or bar; or
  - (2) That results from, or contains material derived from, an activity other than the normal operation of the vessel, such as material resulting from an industrial or manufacturing process onboard the vessel; or
  - (3) If compliance with this part would compromise the safety of life at sea.

- (c) **Area of coverage.** The standards in this part apply to any vessel identified in paragraph (a) of this section, not otherwise excluded in paragraph (b) of this section, while operating in the waters of the United States or the waters of the contiguous zone.
- (d) **Effective date.**
  - (1) The standards in this part are effective beginning on the date upon which regulations promulgated by the Secretary governing the design, construction, testing, approval, installation, and use of marine pollution control devices as necessary to ensure compliance with the standards are final, effective, and enforceable.
  - (2) As of the effective date identified in paragraph (d)(1) of this section, the requirements of the Vessel General Permit and all regulations promulgated by the Secretary pursuant to section 1101 of the Nonindigenous Aquatic Nuisance Prevention and Control Act of 1990 (16 U.S.C. 4711), including the regulations contained in 46 CFR 162.060 and 33 CFR part 151 subparts C and D, as in effect on December 3, 2018, shall be deemed repealed and have no force or effect.

## § 139.2 Definitions.

The following definitions apply for the purposes of this part. Terms not defined in this section have the meaning as defined under the Clean Water Act (CWA) and applicable regulations.

**Active discharge of biofouling** means the discharge of biofouling from a vessel resulting from in-water cleaning activities.

**Administrator** means the Administrator of the Environmental Protection Agency.

**Anti-fouling coating** means a coating or paint designed to prevent, repel, or facilitate the detachment of biofouling from hull and niche areas that are typically or occasionally submerged.

**Anti-fouling system** means a coating, paint, surface treatment, surface, or device that is used on a vessel to control or prevent attachment of organisms.

**Aquatic nuisance species (ANS)** means a nonindigenous species that threatens the diversity or abundance of a native species; the ecological stability of waters of the United States or the waters of the contiguous zone; or a commercial, agricultural, aquacultural, or recreational activity that is dependent on waters of the United States or the waters of the contiguous zone.

**Ballast tank** means any tank or hold on a vessel used for carrying ballast water, whether or not the tank or hold was designed for that purpose.

**Ballast water** means any water, to include suspended matter and other materials taken onboard a vessel, to control or maintain trim, draft, stability, or stresses of the vessel, regardless of the means by which any such water or suspended matter is carried; or taken onboard a vessel during the cleaning, maintenance, or other operation of a ballast tank or ballast water management system of the vessel. The term does not include any substance that is added to that water that is directly related to the operation of a properly functioning ballast water management system.

**Ballast water exchange** means the replacement of ballast water in a ballast tank using one of the following methods:

- (1) Flow-through exchange, in which ballast water is flushed out by pumping in midocean water at the bottom of the tank if practicable, and continuously overflowing the tank from the top, until three full volumes of tank water have been changed.

- (2) Empty and refill exchange, in which ballast water is pumped out until the pump loses suction, after which the ballast tank is refilled with water from the midocean.

**Ballast water management system (BWMS)** means any marine pollution control device (including all ballast water treatment equipment, ballast tanks, pipes, pumps, and all associated control and monitoring equipment) that processes ballast water to kill, render nonviable, or remove organisms; or to avoid the uptake or discharge of organisms.

**Bioaccumulative** means the failure to meet one or more of the criteria established in the definition of *not bioaccumulative*.

**Biodegradable** for the following classes of substances, means (all percentages are on a weight/weight concentration basis):

- (1) For oils: At least 90% of the formulation (for any substances present above 0.1%) demonstrates, within 28 days, either the removal of at least 70% of dissolved organic carbon (DOC), production of at least 60% of the theoretical carbon dioxide, or consumption of at least 60% of the theoretical oxygen demand). Up to 5% of the formulation may be non-biodegradable but may not be bioaccumulative. The remaining 5% must be inherently biodegradable.
- (2) For greases: At least 75% of the formulation (for any substances present above 0.1%) demonstrates, within 28 days, either the removal of at least 70% of DOC, production of at least 60% of the theoretical carbon dioxide, or consumption of at least 60% of the theoretical oxygen demand). Up to 25% of the formulation may be non-biodegradable or inherently biodegradable but may not be bioaccumulative.
- (3) For soaps, cleaners, and detergents: A product that demonstrates, within 28 days, either the removal of at least 70% of DOC, production of at least 60% of the theoretical carbon dioxide, or consumption of at least 60% of the theoretical oxygen demand.
- (4) For biocides: A compound or mixture that, within 28 days, demonstrates removal of at least 70% of DOC and production of at least 60% of the theoretical carbon dioxide.

**Biofouling** means the accumulation of aquatic organisms, such as microorganisms, plants, and animals, on surfaces and structures immersed in or exposed to the aquatic environment.

**Broom clean** means a condition in which care has been taken to prevent or eliminate any visible concentration of tank or cargo residues, so that any remaining tank or cargo residues consist only of dust, powder, or isolated and random pieces, none of which exceeds one inch in diameter.

**Captain of the Port (COTP) Zone** means such zone as established by the Secretary or Commandant of the Coast Guard pursuant to sections 501, 503, and 504 of title 14, United States Code, as reorganized in Title I of the Frank LoBiondo Coast Guard Authorization Act of 2018).

**Commercial vessel** means, except as the term is used in § 139.10(g), any vessel used in the business of transporting property for compensation or hire, or in transporting property in the business of the owner, lessee, or operator of the vessel. As used in § 139.10(g), the term *commercial vessel* means a vessel operating between:

- (1) Two ports or places of destination within the Pacific Region; or
- (2) A port or place of destination within the Pacific Region and a port or place of destination on the Pacific Coast of Canada or Mexico north of parallel 20 degrees north latitude, inclusive of the Gulf of California.

**Constructed** with respect to a vessel means a stage of construction when one of the following occurs:

- (1) The keel of a vessel is laid;
- (2) Construction identifiable with the specific vessel begins;
- (3) Assembly of the vessel has commenced and comprises at least 50 tons or 1 percent of the estimated mass of all structural material, whichever is less; or
- (4) The vessel undergoes a major conversion.

**Contiguous zone** means the entire zone established by the United States under Article 24 of the Convention on the Territorial Sea and the Contiguous Zone.

**Discharge** means *discharge incidental to the normal operation of a vessel* as defined in this section.

**Discharge incidental to the normal operation of a vessel** means a discharge, including:

- (1) Graywater, bilgewater, cooling water, weather deck runoff, ballast water, oil water separator effluent, and any other pollutant discharge from the operation of a marine propulsion system, shipboard maneuvering system, crew habitability system, or installed major equipment, such as an aircraft carrier elevator or a catapult, or from a protective, preservative, or absorptive application to the hull of the vessel; and
- (2) A discharge in connection with the testing, maintenance, and repair of a system described in clause (1):
  - (i) Whenever the vessel is waterborne; and does not include:
    - (A) A discharge of rubbish, trash, garbage, or other such material discharged overboard;
    - (B) An air emission resulting from the operation of a vessel propulsion system, motor driven equipment, or incinerator; or
  - (ii) [Reserved]
- (3) A discharge that is not covered by § 122.3 of this chapter (as in effect on February 10, 1996).

**Discharge of oil in such quantities as may be harmful** means any discharge of oil, including an oily mixture, in such quantities identified in 40 CFR 110.3 and excluding those discharges specified in 40 CFR 110.5.

**Empty ballast tank** means a tank that has previously held ballast water that has been drained to the limit of the functional or operational capabilities of the tank (such as loss of pump suction); is recorded as empty on a vessel log; and may contain unpumpable residual ballast water and sediment.

**Environmentally acceptable lubricant (EAL)** means a lubricant or hydraulic fluid, including any oil or grease, that is "biodegradable," "minimally-toxic," and "not bioaccumulative," as these terms are defined in this section.

**Exclusive Economic Zone (EEZ)** means the area established by Presidential Proclamation Number 5030, dated March 10, 1983, that extends from the base line of the territorial sea of the United States seaward 200 nautical miles, and the equivalent zone of Canada.

**Existing vessel** means a vessel constructed, or where construction has begun, prior to the date identified in regulations promulgated by the Secretary as described in § 139.1(e).

**Federally-protected waters** means any waters of the United States or the waters of the contiguous zone subject to Federal protection, in whole or in part, for conservation purposes, located within any area listed in appendix A, as designated under:

- (1) National Marine Sanctuaries designated under the National Marine Sanctuaries Act (16 U.S.C. 1431 et seq.);
- (2) Marine National Monuments designated under the Antiquities Act of 1906;
- (3) A unit of the National Park System, including but not limited to National Preserves and National Monuments, designated by the National Park Service within the U.S. Department of the Interior;
- (4) A unit of the National Wildlife Refuge System, including Wetland Management Districts, Waterfowl Production Areas, National Game Preserves, Wildlife Management Areas, and National Fish and Wildlife Refuges designated under the National Wildlife Refuge System Administration Act of 1966 as amended by the National Wildlife Refuge System Improvement Act of 1997;
- (5) National Wilderness Areas designated under the Wilderness Act of 1964 (16 U.S.C. 1131-1136); and
- (6) Any component designated under the National Wild and Scenic Rivers Act of 1968, 16 U.S.C. 1273.

**Ferry** means a vessel that is used on a regular schedule to:

- (1) Provide transportation only between places than are not more than 300 miles apart; and
- (2) Transport only:
  - (i) Passengers; or
  - (ii) Vehicles or railroad cars that are being used, or have been used, in transporting passengers or goods.

**Fire protection equipment** includes all components used for fire protection including but not limited to firemain systems, sprinkler systems, extinguishers, and firefighting agents such as foam.

**Graywater** means drainage from galley, shower, laundry, bath, water fountain, and sink drains, and other similar sources.

**Great Lakes** means Lake Ontario, Lake Erie, Lake Huron (including Lake Saint Clair), Lake Michigan, Lake Superior, and the connecting channels (Saint Mary's River, Saint Clair River, Detroit River, Niagara River, and Saint Lawrence River to the Canadian border), and includes all other bodies of water within the drainage basin of such lakes and connecting channels.

**Great Lakes State** means any of the states of Illinois, Indiana, Michigan, Minnesota, New York, Ohio, Pennsylvania, and Wisconsin.

**Gross register tonnage (GRT)** means the gross tonnage measurement of the vessel under the Regulatory Measurement System.

**Gross tonnage (GT)** means the gross tonnage measurement of the vessel under the Convention Measurement System.

**Impaired waterbody** means a waterbody identified by a State, tribe, or EPA pursuant to section 303(d) of the CWA as not meeting applicable State or Tribal water quality standards (these waters are called "water quality limited segments" under 40 CFR 130.2(j)) and includes both waters with approved or established Total Maximum Daily Loads (TMDLs) and those for which a TMDL has not yet been approved or established.

**Inherently biodegradable** means the property of being able to be biodegraded when subjected to sunlight, water, and naturally occurring microbes to the following level: greater than 70% biodegraded after 28 days using Organization for Economic Cooperation and Development (OECD) Test Guidelines 302C or greater than 20% but less than 60% biodegraded after 28 days using OECD Test Guidelines 301 A-F.

**Internal waters** means:

- (1) With respect to the United States, the waters shoreward of the territorial sea baseline, including waters of the Great Lakes extending to the maritime boundary with Canada; and
- (2) With respect to any other nation, the waters shoreward of its territorial sea baseline, as recognized by the United States.

**In-water cleaning with capture (IWCC)** means the use and operation of a cleaning system for vessel surfaces that is designed to capture and transport coatings and biofouling organisms to an adjacent barge or shore-based facility for collection and processing.

**In-water cleaning without capture** means any in-water cleaning of vessel surfaces that does not use in-water cleaning with capture.

**Live or living**, notwithstanding any other provision of law (including regulations), does not:

- (1) Include an organism that has been rendered nonviable; or
- (2) Preclude the consideration of any method of measuring the concentration of organisms in ballast water that are capable of reproduction.

**Macrofouling** means biofouling caused by the attachment and subsequent growth of visible plants and animals on surfaces and structures immersed in or exposed to the aquatic environment. Macrofouling includes large, distinct multicellular individual or colonial organisms visible to the human eye, such as barnacles, tubeworms, mussels, fronds/filaments of algae, bryozoans, sea squirts, and other large attached, encrusting, or mobile organisms.

**Major conversion** means a conversion of an existing vessel:

- (1) That substantially alters the dimensions or carrying capacity of the vessel; or
- (2) That changes the type of the vessel; or
- (3) The intent of which, in the opinion of the government of the country under whose authority the vessel is operating, is substantially to prolong its life; or
- (4) Which otherwise so alters the vessel that, if it were a new vessel, it would become subject to relevant provisions of the International Convention for the Prevention of Pollution from Ships (MARPOL) not applicable to it as an existing vessel.

**Marine Growth Prevention System (MGPS)** means an anti-fouling system used for the prevention of biofouling accumulation in seawater piping systems and sea chests.



**Marine Inspector** means any person from the civilian or military branch of the Coast Guard assigned under the superintendence and direction of an Officer in Charge, Marine Inspection, or any other person as may be designated for the performance of duties with respect to inspection, enforcement, and administration of Subtitle II of Title 46, United States Code, Title 46 and Title 33 United States Code, and regulations issued under these statutes.

**Marine pollution control device (MPCD)** means any equipment or management practice (or combination of equipment and management practice) for installation and use onboard a vessel that is:

- (1) Designed to receive, retain, treat, control, or discharge a discharge incidental to the normal operation of a vessel; and
- (2) Determined by the Administrator and the Secretary to be the most effective equipment or management practice (or combination of equipment and a management practice) to reduce the environmental impacts of the discharge, consistent with the factors considered in developing the standards in this part.

**Master** means the officer having command of a vessel.

**Microfouling** means biofouling caused by bacteria, fungi, microalgae, protozoans, and other microscopic organisms on structures and surfaces immersed in or exposed to the aquatic environment that creates a biofilm, also called a slime layer.

**Midocean** means greater than 200 nautical miles (NM) from any shore, except when a ballast water exchange or saltwater flush outside of 50 NM is authorized in this part, then it means greater than 50 NM from any shore.

**Minimally-toxic** means, for lubricants (all percentages are on a weight/weight basis):

- (1) If both the complete formulation and the main constituents (that is constituents making up greater than or equal to 5% of the complete formulation) are evaluated, then the acute aquatic toxicity of lubricants, other than greases and total loss lubricants, must be at least 100 mg/L and the LC50 of greases and total loss lubricants must be at least 1000 mg/L; or
- (2) If each constituent is evaluated, rather than the complete formulation and main constituents, then for each constituent present above 0.1%: up to 20% of the formulation can have an LC50 greater than 10 mg/L but less than 100 mg/L and an NOEC greater than 1 mg/L but less than 10 mg/L; up to 5% of the formulation can have an LC50 greater than 1 mg/L but less than 10 mg/L and an NOEC greater than 0.1 mg/L but less than 1 mg/L; and up to 1% of the formulation can have an LC50 less than 1 mg/L and an NOEC less than 0.1 mg/L.

**Minimally-toxic, phosphate-free, and biodegradable** means properties of a substance or mixture of substances that:

- (1) Have an acute aquatic toxicity value corresponding to a concentration greater than 10 ppm;
- (2) Do not produce residuals with an LC50 less than 10 ppm;
- (3) Are not bioaccumulative;
- (4) Do not cause the pH of the receiving water to go below 6.0 or above 9.0;
- (5) Contain, by weight, 0.5% or less of phosphates or derivatives of phosphate; and
- (6) Are biodegradable.

**Minimize** means to reduce or eliminate to the extent achievable using any control measure that is technologically available and economically practicable and achievable and supported by demonstrated best management practices such that compliance can be documented in shipboard logs and plans.

**New ferry** means a ferry that is constructed after the effective date of USCG regulations promulgated pursuant to CWA section 312(p)(5)(A)(i).

**New Laker** means a vessel 3,000 GT and above, and that operates exclusively in the Great Lakes and the St. Lawrence River west of a rhumb line drawn from Cap des Rosiers to Pointe-de-l'Ouest (West Point), Anticosti Island, and west of a line along 63° W longitude from Anticosti Island to the north shore of the St. Lawrence River, and constructed after the effective date of USCG regulations promulgated pursuant to CWA section 312(p)(5)(A)(i).

**Niche areas** means a subset of the submerged surface area on a vessel that may be more susceptible to biofouling than the main hull due to structural complexity, different or variable hydrodynamic forces, susceptibility to anti-fouling coating wear or damage, or inadequate or no protection by an anti-fouling system.

**Not bioaccumulative** means any of the following:

- (1) The partition coefficient in the marine environment is log KOW less than 3 or greater than 7;
- (2) The molecular mass is greater than 800 Daltons;
- (3) The molecular diameter is greater than 1.5 nanometer;
- (4) The bioconcentration factor (BCF) or bioaccumulation factor (BAF) is less than 100 L/kg; or
- (5) The polymer with molecular weight fraction below 1,000 g/mol is less than 1%.

**Oil** means oil of any kind or in any form, including but not limited to any petroleum, fuel oil, sludge, oil refuse, and oil mixed with wastes other than dredged spoil.

**Oil-to-sea interface** means any seal or surface on shipboard equipment where the design is such that oil or oily mixtures can escape directly into surrounding waters. Oil-to-sea interfaces are found on equipment that is subject to submersion as well as equipment above the surface line that extends overboard or is mounted to the exterior of the hull.

**Oily mixture** means a mixture, in any form, with any oil content, including but not limited to:

- (1) Slops from bilges;
- (2) Slops from oil cargoes (such as cargo tank washings, oily waste, and oily refuse);
- (3) Oil residue; and
- (4) Oily ballast water from cargo or fuel oil tanks.

**Organism** means an animal, including fish and fish eggs and larvae; a plant; a pathogen; a microbe; a virus; a prokaryote (including any archaean or bacterium); a fungus; and a protist.

**Pacific Region** means any Federal or State water adjacent to the State of Alaska, California, Hawaii, Oregon, or Washington; and extending from shore. The term includes the entire exclusive economic zone (as defined in section 1001 of the Oil Pollution Act of 1990 (33 U.S.C. 2701)) adjacent to each Pacific Region State identified herein.

**Passenger vessel** means a vessel of at least 100 gross tons:

- (1) Carrying more than 12 passengers, including at least one passenger for hire;
- (2) That is chartered and carrying more than 12 passengers;
- (3) That is a submersible vessel carrying at least one passenger for hire; or
- (4) That is a ferry carrying a passenger.

**Passive discharge of biofouling** means the discharge of biofouling from a vessel (for example, sloughing) during a period in which the vessel is not undergoing active cleaning activities.

**Port or place of destination** means a port or place to which a vessel is bound to anchor, to moor, or be otherwise secured.

**Reception facility** refers to any fixed, floating, or mobile facility capable of receiving wastes and residues from vessels and fit for that purpose.

**Render nonviable** means, with respect to an organism in ballast water, the action of a ballast water management system that renders the organism permanently incapable of reproduction following treatment.

**Saltwater flush** means the addition of as much midocean water into each empty ballast tank of a vessel as is safe for the vessel and crew; and the mixing of the flush water with residual ballast water and sediment through the motion of the vessel; and the discharge of that mixed water, such that the resultant residual water remaining in the tank has the highest salinity possible; and is at least 30 parts per thousand. A saltwater flush may require more than one fill-mix-empty sequence, particularly if only small quantities of water can be safely taken onboard a vessel at one time.

**Seagoing vessel** means a vessel in commercial service that operates beyond either the boundary line established by 46 CFR part 7 or the St. Lawrence River west of a rhumb line drawn from Cap des Rosiers to Pointe-de-l'Ouest (West Point), Anticosti Island, and west of a line along 63° W longitude from Anticosti Island to the north shore of the St. Lawrence River. It does not include a vessel that navigates exclusively on internal waters.

**Seawater piping system** means a system onboard a vessel that provides seawater for other vessel uses (e.g., ballast, engines, hydraulic systems, firefighting capacity, cleaning equipment, air conditioning, refrigeration, toilet systems) and includes any sea chest, grate, and similar appurtenances (e.g., strainers, filters, valves). Some components of a seawater piping system including sea chests, sea inlet pipes, and overboard discharges are also considered niche areas.

**Secretary** means the Secretary of the department in which the United States Coast Guard (USCG) is operating.

**Small vessel or fishing vessel** means a vessel with a vessel length that is less than 79 feet; or a fishing vessel, fish processing vessel, or fish tender vessel (as those terms are defined in section 2101 of title 46, United States Code), regardless of the vessel length.

**Toxic or hazardous materials** means any toxic pollutant as defined in 40 CFR 401.15 or any hazardous material as defined in 49 CFR 171.8.

**Underway** means a vessel is not at anchor, or made fast to the shore, or aground.

**Vessel General Permit (VGP)** means the permit that is the subject of the notice of final permit issuance entitled "Final National Pollutant Discharge Elimination System (NPDES) General Permit for Discharges Incidental to the Normal Operation of a Vessel" (FEDERAL REGISTER publication on April 12, 2013).

**Vessel length** means the horizontal distance between the foremost part of a vessel's stem to the aftermost part of its stern, excluding fittings and attachments.

**Visible sheen** means, with respect to oil and oily mixtures, a silvery or metallic sheen or gloss, increased reflectivity, visual color, iridescence, or an oil slick on the surface of the water.

**Voyage** means any transit by a vessel traveling from or destined for any United States port or place.

### § 139.3 Other Federal laws.

- (a) Except as expressly provided in this part, nothing in this part affects the applicability to a vessel of any other provision of Federal law, including:
  - (1) Sections 311 and 312 of the Federal Water Pollution Control Act (33 U.S.C. 1321 *et seq.* and 33 U.S.C. 1322 *et seq.*), also known as the CWA;
  - (2) The Act to Prevent Pollution from Ships (33 U.S.C. 1901 *et seq.*);
  - (3) Title X of the Coast Guard Authorization Act of 2010 (33 U.S.C. 3801 *et seq.*), also known as the Clean Hulls Act;
  - (4) The Federal Insecticide, Fungicide, and Rodenticide Act (7 U.S.C. 136 *et seq.*); and
  - (5) The National Marine Sanctuaries Act (16 U.S.C. 1431 *et seq.*) and implementing regulations found at 15 CFR part 922 and 50 CFR part 404.
- (b) Nothing in this part affects the authority of the Secretary of Commerce or the Secretary of the Interior to administer any land or waters under the administrative control of the Secretary of Commerce or the Secretary of the Interior, respectively.
- (c) Nothing in this part shall be construed to affect, supersede, or relieve the master of any otherwise applicable requirements or prohibitions associated with a vessel's right to innocent passage as provided for under customary international law.

## Subpart B—General Standards for Discharges Incidental to the Normal Operation of a Vessel

### § 139.4 General operation and maintenance.

- (a) The requirements in paragraph (b) of this section apply to any discharge incidental to the normal operation of a vessel subject to regulation under this part, including but not limited to those discharges identified in subpart C of this part.
- (b) Vessels must implement the following practices:
  - (1) Minimize discharges through management practices including but not limited to storage onboard the vessel, proper storage or transfer of materials, or reduced production of discharge.
  - (2) Discharge while underway when practicable and as far from shore as practicable.
  - (3) Addition of any materials to a discharge, other than for treatment of the discharge, that is not incidental to the normal operation of the vessel is prohibited.
  - (4) Dilution of any discharge for the purpose of meeting any standard in this part is prohibited.
  - (5) Any material used onboard that will be subsequently discharged (e.g., disinfectants, cleaners, biocides, coatings, sacrificial anodes) must:

- (i) Be used according to manufacturer specifications and only in the amount necessary to perform the intended function of that material;
  - (ii) Not contain any materials banned for use in the United States; and
  - (iii) If subject to FIFRA registration, be used according to the FIFRA label. Proper use includes labeling requirements for proper application sites, rates, frequency of application, and methods; maintenance; removal; and storage and disposal of wastes and containers.
- (6) To minimize and prevent discharge of cargo or other onboard materials, cargo must be containerized or covered except for hopper barges without a fixed cover or where covering cargo would negatively impact safety of the vessel, risk loss of life at sea, or otherwise interfere with essential vessel operations.
- (7) To minimize and prevent discharge of toxic or hazardous materials, vessels must:
  - (i) Store toxic or hazardous materials in appropriately sealed, labeled, and secured containers located in areas of the vessel that minimize exposure to ocean spray and precipitation consistent with vessel design, unless the master determines this would interfere with essential vessel operations or safety of the vessel or crew, or would violate any applicable regulations that establish specifications for safe transportation, handling, carriage, and storage of toxic or hazardous materials.
  - (ii) Ensure containers holding toxic or hazardous materials are not overfilled and incompatible materials (*i.e.*, substances which, if mixed, will create hazards greater than posed by the individual substances) are not mixed.
- (8) The overboard discharge or disposal of any containers holding toxic or hazardous materials is prohibited.
- (9) Prior to washing any compartment, tank, cargo or other space and discharging washwater overboard from the area, that space must be in broom clean condition or its equivalent.
- (10) Topside surfaces (*e.g.*, exposed decks, hull above waterline, tank, cargo, and related appurtenances) must be maintained to minimize the discharge of cleaning compounds, paint chips, non-skid material fragments, and other materials associated with exterior surface preservation.
- (11) Painting and coating techniques on topside surfaces must minimize the discharge of paints, coatings, surface preparation materials, and similar substances.
- (12) Discharge of unused paint and coatings is prohibited.
- (13) Any equipment that may release, drip, leak, or spill oil or oily mixtures, fuel, or other toxic or hazardous materials, including to the bilge, must be maintained to minimize or eliminate the discharges.

### § 139.5 Biofouling management.

- (a) The requirements in paragraph (b) of this section apply to any vessel subject to regulation under this part.
- (b) A biofouling management plan must be developed to minimize the discharge of biofouling organisms. The plan elements must prioritize procedures and strategies to prevent macrofouling, thereby minimizing the potential for the introduction and spread of ANS. The plan must describe the vessel-specific anti-

fouling systems and biofouling management practices necessary to comply with the requirements in this section. See §§ 139.13, 139.14, 139.22, 139.28, and 139.29 for additional biofouling management requirements.

### § 139.6 Oil management.

- (a) The requirements in paragraphs (b) through (e) of this section apply to vessel equipment and operations that use or discharge oil or oily mixtures.
- (b) The discharge of used or spent oil no longer being used for its intended purpose is prohibited.
- (c) The discharge of oil in such quantities as may be harmful is prohibited.
- (d) During fueling, maintenance, and other vessel operations, control and response measures must be used to prevent, minimize, and contain spills and overflows.
- (e) An environmentally acceptable lubricant (EAL) must be used in any oil-to-sea interface unless such use is technically infeasible. Operators of new build vessels should endeavor to use seawater-based systems for stern tube lubrication to eliminate the discharge of oil from these interfaces to the aquatic environment.

## Subpart C—Standards for Specific Discharges Incidental to the Normal Operation of a Vessel

### § 139.10 Ballast tanks.

- (a) **Applicability.** Except for any vessel otherwise excluded in paragraph (b) of this section, the requirements in paragraphs (c) through (h) of this section apply to any vessel equipped with one or more ballast tanks.
- (b) **Exclusions.** The requirements of this section do not apply to the following vessels:
  - (1) A vessel that continuously takes on and discharges ballast water in a flow-through system, if the Administrator determines that system cannot materially contribute to the spread or introduction of ANS into waters of the United States;
  - (2) A vessel in the National Defense Reserve Fleet scheduled for disposal, if the vessel does not have an operable ballast water management system (BWMS);
  - (3) A vessel that discharges ballast water consisting solely of water taken onboard from a public or commercial source that, at the time the water is taken onboard, meets the applicable requirements or permit requirements of the Safe Drinking Water Act (42 U.S.C. 300f et seq.);
  - (4) A vessel that carries all permanent ballast water in sealed tanks that are not subject to discharge; or
  - (5) A vessel that only discharges ballast water to a reception facility.
- (c) **Ballast Water Best Management Practices.**
  - (1) Any vessel equipped with ballast tanks must minimize the introduction and spread of aquatic nuisance species (ANS) by adhering to the following practices:
    - (i) Maintain a ballast water management plan that addresses both the uptake and discharge of ballast water. The plan must describe the vessel-specific BWMSs and practices necessary to comply with the requirements in this section.
    - (ii) Minimize the use of gravity to drain ballast tanks in port.

- (iii) Use high sea suction in port or where clearance to the bottom of the waterbody is less than 5 meters to the lower edge of the sea chest, as practicable.
  - (iv) Avoid the discharge or uptake of ballast water in areas with coral reefs. Discharge and uptake should be conducted as far from coral reefs as practicable.
  - (v) Periodically clean ballast tanks to remove sediment. Discharge of sediment from ballast tank cleaning is prohibited.
  - (vi) Maintain, and keep fully intact, sea chest screens.
- (2) Any new Laker equipped with ballast tanks must install, operate, and maintain a BWMS that has been type-approved by the USCG.
- (d) **Ballast Water Discharge Standard.** Unless exempted in paragraph (d)(3) of this section, any ballast water discharge must meet the following numeric discharge standard:
- (1) Biological parameters (expressed as instantaneous maximums).
    - (i) Organisms greater than or equal to 50 micrometers in minimum dimension: less than 10 living organisms per cubic meter.
    - (ii) Organisms less than 50 micrometers and greater than or equal to 10 micrometers: less than 10 living organisms per milliliter (mL).
    - (iii) Toxicogenic *Vibrio cholerae* (serotypes O1 and O139): less than 1 colony-forming unit (cfu) per 100 mL.
    - (iv) *Escherichia coli*: a concentration of less than 250 cfu, or Most Probable Number (MPN), per 100 mL.
    - (v) Intestinal enterococci: a concentration of less than 100 cfu, or MPN, per 100 mL.
  - (2) Biocide parameters (expressed as instantaneous maximums).
    - (i) Chlorine dioxide: for any discharge from a BWMS using chlorine dioxide, chlorine dioxide must not exceed 200 µg/L.
    - (ii) Total residual oxidizers: for any discharge from a BWMS using chlorine or ozone, total residual oxidizers must not exceed 100 µg/L.
    - (iii) Peracetic acid: for any discharge from a BWMS using peracetic acid, peracetic acid must not exceed 500 µg/L.
    - (iv) Hydrogen peroxide: for any discharge from a BWMS using peracetic acid, hydrogen peroxide must not exceed 1,000 µg/L.
  - (3) Exemptions: The ballast water discharge standards in paragraphs (d)(1) and (2) of this section do not apply to any vessel that:
    - (i) Is less than or equal to 3,000 GT (1,600 GRT if GT is not assigned), and does not operate outside of the EEZ;
    - (ii) Is a non-seagoing, unmanned, unpowered barge, except any barge that is part of a dedicated vessel combination such as an integrated or articulated tug and barge unit;

- (iii) Takes on and discharges ballast water exclusively in the contiguous portions of a single COTP Zone;
- (iv) Does not travel more than 10 NM and passes through no locks;
- (v) Discharges ballast water at the same location where that ballast water originated, provided that no mixing with unmanaged ballast water or sediment from other areas has occurred;
- (vi) Operates exclusively in the Great Lakes and the St. Lawrence River west of a rhumb line drawn from Cap des Rosiers to Pointe-de-l'Ouest (West Point), Anticosti Island, and west of a line along 63° W. longitude from Anticosti Island to the north shore of the St. Lawrence River;
- (vii) Is enrolled in the USCG Shipboard Technology Evaluation Program (STEP); or
- (viii) Discharges ballast water prior to an applicable ballast water discharge standard compliance date established in regulations promulgated by the Secretary as described in 139.1(d).

(e) **Ballast Water Exchange and Saltwater Flush.** Except for any vessel identified in paragraph (f) or (g) of this section, prior to an applicable ballast water discharge standard compliance date established in regulations promulgated by the Secretary as described in § 139.1(d), any vessel must meet the requirements in paragraphs (e)(1) and (2) of this section unless excluded under paragraph (e)(3) of this section.

- (1) Any vessel that carries ballast water taken on in areas less than 200 NM from any shore that will subsequently operate outside the EEZ and more than 200 NM from any shore must:
  - (i) Conduct ballast water exchange in waters not less than 200 NM from any shore prior to discharging that ballast water; and
  - (ii) Commence ballast water exchange not less than 200 NM from any shore and as early in the vessel voyage as practicable.
- (2) For any ballast tank that is empty or contains unpumpable residual water on a vessel bound for a port or place of destination subject to the jurisdiction of the United States, the master must, prior to arriving at that port or place of destination, either:
  - (i) Seal the tank so that there is no discharge or uptake and subsequent discharge of ballast water, or
  - (ii) Conduct a ballast water exchange or saltwater flush:
    - (A) Not less than 200 NM from any shore for a voyage originating outside the United States or Canadian EEZ; or
    - (B) Not less than 50 NM from any shore for a voyage originating within the United States or Canadian EEZ.
- (3) Exceptions: Paragraphs (e)(1) and (2), do not apply under any of the following circumstances:
  - (i) If the unpumpable residual waters and sediments of an empty ballast tank were subject to treatment, in compliance with applicable requirements, through a BWMS approved or accepted by the Secretary;
  - (ii) Except as otherwise required under this part, if the unpumpable residual waters and sediments of an empty ballast tank were sourced solely within:



- (A) The same port or place of destination; or
- (B) Contiguous portions of a single COTP Zone;
- (iii) If complying with an applicable requirement of this paragraph (e):
  - (A) Would compromise the safety of the vessel; or
  - (B) Is otherwise prohibited by any Federal, Canadian, or international law (including regulations) pertaining to vessel safety;
- (iv) If design limitations of an existing vessel prevent a ballast water exchange or saltwater flush from being conducted in accordance with this paragraph (e); or
- (v) If the vessel is operating exclusively within the internal waters of the United States and Canada.

(f) ***Vessels entering the Great Lakes.***

- (1) Ballast Water Exchange: Except as provided in paragraph (f)(2) of this section, any vessel entering the St. Lawrence Seaway through the mouth of the St. Lawrence River must conduct a complete ballast water exchange or saltwater flush:
  - (i) Not less than 200 NM from any shore for a voyage originating outside the EEZ; or
  - (ii) Not less than 50 NM from any shore for a voyage originating within the EEZ.
- (2) Exceptions: The requirements of paragraph (f)(1) of this section do not apply to any vessel if:
  - (i) Complying with paragraph (f)(1) of this section:
    - (A) Would compromise the safety of the vessel; or
    - (B) Is otherwise prohibited by any Federal, Canadian, or international law (including regulations) pertaining to vessel safety.
  - (ii) Design limitations of an existing vessel prevent a ballast water exchange from being conducted in accordance with an applicable requirement of paragraph (f)(1) of this section.
  - (iii) The vessel has no residual ballast water or sediments onboard.
  - (iv) The vessel retains all ballast water while in waters subject to the requirement.
  - (v) The empty ballast tanks on the vessel are sealed in a manner that ensures that no discharge or uptake occurs, and any subsequent discharge of ballast water is subject to the requirement.

(g) ***Pacific Region.***

- (1) Ballast Water Exchange:
  - (i) Except as provided in paragraphs (g)(1)(ii) and (g)(3) of this section, any vessel that operates either between two ports or places of destination within the Pacific Region; or a port or place of destination within the Pacific Region and a port or place of destination on the Pacific Coast of Canada or Mexico north of parallel 20 degrees north latitude, inclusive of the Gulf of California, must conduct a complete ballast water exchange in waters more than 50 NM from shore.
  - (ii) Exemptions: The requirements of paragraph (g)(1)(i) of this section do not apply to any vessel:
    - (A) Using, in compliance with applicable requirements, a type-approved BWMS approved or accepted by the Secretary.

(B) Voyaging:

- (1) Between or to a port or place of destination in the State of Washington, if the ballast water to be discharged from the commercial vessel originated solely from waters located between the parallel 46 degrees north latitude, including the internal waters of the Columbia River, and the internal waters of Canada south of parallel 50 degrees north latitude, including the waters of the Strait of Georgia and the Strait of Juan de Fuca;
- (2) Between ports or places of destination in the State of Oregon, if the ballast water to be discharged from the commercial vessel originated solely from waters located between the parallel 40 degrees north latitude and the parallel 50 degrees north latitude;
- (3) Between ports or places of destination in the State of California within the San Francisco Bay area east of the Golden Gate Bridge, including the Port of Stockton and the Port of Sacramento, if the ballast water to be discharged from the commercial vessel originated solely from ports or places within that area;
- (4) Between the Port of Los Angeles, the Port of Long Beach, and the El Segundo offshore marine oil terminal, if the ballast water to be discharged from the commercial vessel originated solely from the Port of Los Angeles, the Port of Long Beach, or the El Segundo offshore marine oil terminal;
- (5) Between a port or place of destination in the State of Alaska within a single COTP Zone;
- (6) Between ports or places of destination in different counties of the State of Hawaii, if the vessel conducts a complete ballast water exchange in waters that are more than 10 NM from shore and at least 200 meters deep; or
- (7) Between ports or places of destination within the same county of the State of Hawaii, if the vessel does not transit outside State marine waters during the voyage.

(2) Low-Salinity Ballast Water:

- (i) Except as provided in paragraphs (g)(2)(ii) and (g)(3) of this section, a complete ballast water exchange must be conducted for any commercial vessel that transports ballast water sourced from waters with a measured salinity of less than 18 parts per thousand and voyages to a Pacific Region port or place of destination with a measured salinity of less than 18 parts per thousand:
  - (A) Not less than 50 NM from shore, if the ballast water was sourced from a Pacific Region port or place of destination.
  - (B) More than 200 NM from shore, if the ballast water was not sourced from a Pacific Region port or place of destination.
- (ii) Exception: The requirements of paragraph (g)(2)(i) of this section do not apply to any vessel voyaging to a port or place of destination in the Pacific Region that is using, in compliance with applicable requirements, a type-approved BWMS accepted by the Secretary, or a type-approved BWMS approved by the Secretary to achieve the following numeric discharge standard for biological parameters (expressed as instantaneous maximums):

- (A) Organisms greater than or equal to 50 micrometers in minimum dimension: less than 1 living organism per 10 cubic meters.
  - (B) Organisms less than 50 micrometers and greater than or equal to 10 micrometers: Less than 1 living organisms per 10 milliliters (mL).
  - (C) Toxicogenic *Vibrio cholerae* (serotypes O1 and O139): less than 1 colony-forming unit (cfu) per 100 mL or less than 1 cfu per gram of wet weight of zoological samples.
  - (D) *Escherichia coli*: less than 126 cfu, or MPN, per 100 mL.
  - (E) Intestinal enterococci: less than 33 cfu, or MPN, per 100 mL.
- (3) General Exceptions: The requirements of paragraphs (g)(1) and (2) of this section do not apply to a commercial vessel if:
- (i) Complying with the requirement would compromise the safety of the commercial vessel.
  - (ii) If design limitations of an existing vessel, prevent a ballast water exchange from being conducted in accordance with paragraphs (g)(1) and (2) of this section, as applicable.
  - (iii) The commercial vessel:
    - (A) Has no residual ballast water or sediments onboard; or
    - (B) Retains all ballast water while in waters subject to those requirements.
  - (iv) Empty ballast tanks on the commercial vessel are sealed in a manner that ensures that:
    - (A) No discharge or uptake occurs; and
    - (B) Any subsequent discharge of ballast water is subject to those requirements.
- (h) **Federally-protected waters.** Additional standards applicable to discharges from ballast tanks when a vessel is operating in federally-protected waters are contained in § 139.40(b).

### § 139.11 Bilges.

- (a) The requirements in paragraphs (b) through (d) of this section applies to bilgewater, which is the discharge of wastewater from the bilge consisting of water and residue that accumulates in a lower compartment of the vessel's hull below the waterline. This includes, but is not limited to, any water and residue from a cargo area that comes into contact with oily materials or a below-deck parking area or other storage area for motor vehicles or other motorized equipment.
- (b) The discharge of bilgewater from any vessel must not contain any flocculants or other additives except when used with an oily water separator or to maintain or clean equipment. The use of any additives to remove the appearance of a visible sheen is prohibited.
- (c) For any vessel of 400 GT and above, the discharge of bilgewater must:
  - (1) Occur when the vessel is underway;
  - (2) Not have an oil content that exceeds 15 ppm; and
  - (3) If technologically feasible, occur at least 1 NM from shore.
- (d) Additional standards applicable to discharges from bilges when a vessel is operating in federally-protected waters are contained in § 139.40(c).

### § 139.12 Boilers.

- (a) The requirements in paragraphs (b) and (c) of this section apply to discharges resulting from boiler blowdown.
- (b) The discharge from boiler blowdown must be minimized in port.
- (c) Additional standards applicable to discharges from boilers when a vessel is operating in federally-protected waters are contained in § 139.40(d).

### § 139.13 Cathodic protection.

- (a) The requirements in paragraph (b) of this section apply to discharges resulting from a vessel's cathodic corrosion control protection device, including but not limited to sacrificial anodes and impressed current cathodic protection (ICCP) systems.
- (b) Spaces between any flush-fit anode and backing must be filled to remove potential hotspots for biofouling organisms.
- (c) The vessel operator must consider using, but is not required to use, less toxic metals when selecting sacrificial anodes.

### § 139.14 Chain lockers.

- (a) The requirements in paragraphs (b) through (e) of this section apply to accumulated biological organisms, sediment, precipitation, and seawater that is emptied from the compartment used to store the anchor chain on a vessel and are intended to prevent the discharge of accumulated biological organisms, sediment, precipitation, and seawater when deploying the anchor in a new port or place of destination.
- (b) Anchors and anchor chains must be rinsed of biofouling organisms and sediment when the anchor is retrieved.
- (c) The discharge of biological organisms, sediment, precipitation, and seawater from any chain locker is prohibited in port.
- (d) Anchors and anchor chains used beyond waters of the contiguous zone must be rinsed of biofouling organisms and sediment prior to entering the waters of the contiguous zone. This requirement may be satisfied by rinsing when the anchor is retrieved at the commencement of the voyage or when the anchor was last retrieved on a previous voyage, so long as the rinsing occurs after the last use of the anchor beyond waters of the contiguous zone.
- (e) Additional standards applicable to a discharge from chain lockers when a vessel is operating in federally-protected waters are contained in § 139.40(e).

### § 139.15 Decks.

- (a) The requirements in paragraphs (b) through (i) of this section apply to the discharge of washdown and runoff from decks, well decks, and bulkhead areas, including but not limited to precipitation, condensation, seawater spray and wash over, and flooding, as well as waters pumped from below deck on a barge.
- (b) Coamings or drip pans must be used for machinery that is expected to leak or otherwise release oil on the deck; accumulated oil must be collected.

- (c) Where required by an applicable international treaty or convention or the Secretary, the vessel must be fitted with and use physical barriers (e.g., spill rails, scuppers and scupper plugs) during any washdown.
- (d) Control measures must be used to minimize the introduction of on-deck debris, garbage, residue, spills, floating solids, visible foam, halogenated phenolic compounds, dispersants, and surfactants into deck washdown and runoff.
- (e) Vessel decks must be kept in broom clean condition whenever the vessel is underway and prior to any deck washdown.
- (f) Discharges from deck washdowns must be minimized in port.
- (g) Any soap, cleaner, or detergent used for deck washdown must be minimally-toxic, phosphate-free, and biodegradable.
- (h) Barges that discharge water pumped from below deck must minimize the contact of below deck condensation with oily or toxic materials and any materials containing hydrocarbons.
- (i) Additional standards applicable to discharges from decks when a vessel is operating in federally-protected waters are contained in § 139.40(f).

#### § 139.16 Desalination and purification systems.

- (a) The requirements in paragraph (b) of this section apply to discharges from onboard desalination and purification systems used to generate freshwater from seawater or otherwise purify water.
- (b) The discharge resulting from the cleaning of desalination and purification systems with toxic or hazardous materials is prohibited.

#### § 139.17 Elevator pits.

- (a) The requirements in paragraph (b) of this section apply to the liquid that accumulates in, and is discharged from, the sumps of elevator wells.
- (b) The discharge of untreated accumulated water and sediment from any elevator pit is prohibited.

#### § 139.18 Exhaust gas emission control systems.

- (a) **Applicability.** The requirements in paragraphs (b) through (d) of this section apply to discharges from the operation and cleaning of any exhaust gas cleaning system (EGCS) and exhaust gas recirculation (EGR) system.
- (b) **Discharge requirements.** Unless excluded in paragraph (c) of this section, any discharge identified in paragraph (a) of this section must meet the following discharge requirements.
  - (1) **pH.**
    - (i) The discharge must meet one of the following requirements:
      - (A) The discharge must have a pH of no less than 6.5 as measured at the vessel's overboard discharge point with the exception that during maneuvering and transit, the maximum difference of two pH units is allowed between inlet water and overboard discharge values; or

- (B) The pH discharge limit is the value that will achieve a minimum pH of 6.5 at 4 meters from the overboard discharge point with the vessel stationary. This overboard pH discharge limit is to be determined at the overboard discharge monitoring point and is to be recorded as the vessel's discharge limit. The overboard pH limit can be determined either by means of direct measurement, or by using a calculation-based methodology (computational fluid dynamics or other equally scientifically established empirical formulas).
- (ii) The pH numeric discharge standard may be exceeded for up to 15 minutes in any 12-hour period.
- (2) **PAHs (Polycyclic Aromatic Hydrocarbons).**
- (i) The maximum continuous PAH concentration in the discharge must be no greater than 50 µg/L PAHphe (phenanthrene equivalents) above the inlet water PAH concentration. This standard applies downstream of any wastewater treatment equipment including any reactant dosing unit but upstream of any seawater addition for control of pH prior to discharge.
- (ii) The 50 µg/L numeric discharge standard is normalized for a discharge flow rate, before any seawater neutralization for pH control, of 45 tons (t)/megawatt-hour (MWh) where the megawatt (MW) refers to the Maximum Continuous Rating (MCR) or 80% of the power rating of the fuel oil combustion units whose EGCS discharge water PAH is being monitored at that point. In cases where sensors are installed in a separate measurement cell, the PAH limit applies to the flow in the main discharge pipe from which the water is bypassed. This numeric discharge standard is adjusted upward or downward for different discharge flow rates, pursuant to table 1 to paragraph (b)(2)(ii) of this section.

**TABLE 1 TO PARAGRAPH (b)(2)(ii)**

Discharge water flowrate before any seawater addition for pH control (t/MWh)	Numeric discharge standard (µg/L PAHphe equivalents)	Measurement technology
0-1	2,250	Ultraviolet light
2.5	900	- " -
5	450	Fluorescence <sup>a</sup>
11.25	200	- " -
22.5	100	- " -
45	50	- " -
90	25	- " -

<sup>a</sup> For any Flow Rate greater than 2.5 t/MWh, Fluorescence technology must be used.

- (iii) The continuous PAHphe numeric discharge standard may be exceeded by 100% for up to 15 minutes in any 12-hour period.
- (3) **Turbidity/suspended particulate matter.**

- (i) The wastewater treatment system must be designed to minimize suspended particulate matter, including but not limited to heavy metals and ash.
- (ii) The maximum continuous turbidity in the discharge must be no greater than 25 FNU (formazin nephelometric units) or 25 NTU (nephelometric turbidity units) or equivalent units above the inlet water turbidity. However, to account for periods of high inlet turbidity, readings must be a rolling average over a 15-minute period to a maximum of 25 FNU or NTU. This standard applies downstream of any wastewater treatment equipment including any reactant dosing unit but upstream of any seawater addition for control of pH prior to discharge.
- (iii) For an aggregated 15-minute period in any rolling 12-hour period, the continuous turbidity discharge limit may be exceeded by 20%.

(4) **Nitrates plus nitrites:**

- (i) The wastewater treatment system must prevent the discharge of nitrates plus nitrites beyond that associated with a 12% removal of NO<sub>x</sub> from the exhaust, or beyond 60 mg/L normalized for a discharge rate of 45 tons/MWh, whichever is greater, where the MW refers to the MCR or 80% of the power rating of all those fuel oil combustion units whose EGCS discharge water nitrates plus nitrites are being monitored at that point. This standard applies downstream of any wastewater treatment equipment including any reactant dosing unit but upstream of any seawater addition for control of pH prior to discharge. The 60-mg/L limit is adjusted upward for lower wastewater flow rates per MWh, and vice-versa, and the applicable permit limits are contained in table 2 to paragraph (b)(4)(i) of this section.

**TABLE 2 TO PARAGRAPH (b)(4)(i)**

Discharge water flowrate before any seawater addition for pH control (t/MWh)	Numeric discharge standard (mg/L nitrate + nitrite)
0-1	2,700
2.5	1,080
5	540
11.25	240
22.5	120
45	60

(5) **Discharge water from temporary storage:**

- (i) pH. See § 139.18(b)(1).
- (ii) PAH. Maximum of 50 µg/L PAHphe before any addition of seawater (or similar) for control of pH.
- (iii) Turbidity. Not greater than 25 FNU or 25 NTU or equivalent units, before any addition of seawater (or similar) for pH control.

- (6) **Treatment Residuals:** Discharges of sludge or residues generated from treatment of EGCS or EGR washwater or bleed-off water are prohibited.
- (c) **Exclusion.** For a vessel operating on fuel that meets the sulfur content limits specified in Regulation 14 of MARPOL Annex VI, discharge of EGR bleed-off water is excluded from paragraph (b) of this section if the vessel:
  - (1) Does not retain the EGR bleed-off onboard in a holding tank prior to discharge, and
  - (2) Is underway, and
  - (3) Not in port.
- (d) **Prohibition.** For a vessel not operating on fuel that meets the sulfur content limits specified in Regulation 14 of MARPOL Annex VI, discharge of EGR bleed-off water which is retained in a holding tank is prohibited unless the vessel:
  - (1) Is underway;
  - (2) Not in port; and
  - (3) In compliance with the discharge standard in paragraph (b) of this section.

#### § 139.19 Fire protection equipment.

- (a) The requirements in paragraphs (b) through (e) of this section apply to the discharge from fire protection equipment, including discharges for secondary purposes (e.g., anchor and anchor chain rinsing and deck washdown). As specified in § 139.1(b)(3), these requirements do not apply to discharges from fire protection equipment when used for emergencies or when compliance with such requirements would compromise the safety of the vessel or life at sea.
- (b) The discharge of fluorinated firefighting foam is prohibited unless required for certification or inspection under 46 CFR 31.10 through 31.18(c), 46 CFR 107.235(b)(4), or by the marine inspector to ensure vessel safety and seaworthiness.
- (c) The discharge from fire protection equipment to ensure operability (e.g., during testing, training, maintenance, inspection, or certification) is prohibited in port unless:
  - (1) The intake is drawn from surrounding waters or a potable water supply and contains no additives (e.g., firefighting foam); or
  - (2) Required in port by the Secretary for certification or inspection under 46 CFR 31.10 through 31.18(c), 46 CFR 107.235(b)(4), or by the marine inspector to ensure vessel safety.
- (d) The discharge from fire protection equipment for secondary uses is prohibited in port unless:
  - (1) The intake is drawn from surrounding waters or a potable water supply and contains no additives (e.g., firefighting foam); and
  - (2) The discharge meets applicable requirements under this part for the secondary use.
- (e) Additional requirements applicable to discharges from fire protection equipment when a vessel is operating in federally-protected waters are contained in § 139.40(g).



## § 139.20 Gas turbines.

- (a) The requirements in paragraph (b) of this section apply to discharges from the washing of gas turbine components.
- (b) The discharge of untreated gas turbine washwater is prohibited unless infeasible.

## § 139.21 Graywater systems.

- (a) The requirements in paragraphs (b) through (g) of this section apply to discharges of graywater except for graywater from any commercial vessel on the Great Lakes that is subject to the requirements in 40 CFR part 140 and 33 CFR part 159.
- (b) The introduction of kitchen waste, food, oils, and oily residues to the graywater system must be minimized.
- (c) Any soaps, cleaners, detergents, and other substances used by vessel operators or provided by vessel operators to persons onboard and discharged in graywater must be minimally-toxic, phosphate-free, and biodegradable.
- (d) The discharge of graywater is prohibited from any vessel:
  - (1) Within 3 NM from shore that voyages at least 3 NM from shore and has remaining available graywater storage capacity, unless the discharge meets the standards in paragraph (f) of this section; and
  - (2) Within 1 NM from shore that voyages at least 1 NM from shore but not beyond 3 NM from shore and has remaining available graywater storage capacity, unless the discharge meets the standards in paragraph (f) of this section.
- (e) The discharge of graywater from the following vessels must meet the numeric discharge standard established in paragraph (f) of this section:
  - (1) Any new vessel of 400 GT (400 GRT if GT is not assigned) and above that is certificated to carry 15 or more persons and provides overnight accommodations to those persons;
  - (2) Any passenger vessel, excluding any ferry, with overnight accommodations for 500 or more persons;
  - (3) Any passenger vessel, excluding any ferry, with overnight accommodations for 100-499 persons unless the vessel was constructed before December 19, 2008, and does not voyage beyond 1 NM from shore; and
  - (4) Any new ferry authorized by the Secretary to carry 250 or more persons.
- (f) A vessel identified in paragraph (d) or (e) of this section that is discharging graywater must meet the following numeric discharge standard:
  - (1) ***Fecal coliform.***
    - (i) The 30-day geometric mean must not exceed 20 cfu, or MPN, per 100 mL.
    - (ii) Greater than 90% of samples must not exceed 40 cfu, or MPN, per 100 mL during any 30-day period.
  - (2) ***BOD5.***
    - (i) The 30-day average must not exceed 30 mg/L.

(ii) The 7-day average must not exceed 45 mg/L.

(3) ***Suspended solids.***

(i) The 30-day average must not exceed 30 mg/L.

(ii) The 7-day average must not exceed 45 mg/L.

(4) ***pH.***

(i) Must be maintained between 6.0 and 9.0.

(ii) [Reserved]

(5) ***Total residual oxidizers.***

(i) For any discharge from a graywater system using chlorine, total residual oxidizers must not exceed 10.0 µg/L.

(ii) [Reserved]

(g) Unless from a vessel subject to paragraph (e) of this section, the discharge of graywater from any vessel operating on the Great Lakes that is not a commercial vessel must not exceed 200 fecal coliform forming units per 100 milliliters and contain no more than 150 milligrams per liter of suspended solids.

(h) Additional standards applicable to discharges from graywater systems when a vessel is operating in federally-protected waters are contained in § 139.40(h).

**§ 139.22 Hulls and associated niche areas.**

(a) ***Applicability.*** The requirements in paragraphs (b) through (d) of this section apply to the discharge of anti-fouling coatings, biofouling organisms, and other materials from vessel hull and niche areas.

(b) ***Transport and passive discharge.*** The transport of attached living organisms and passive discharge of biofouling must be minimized when traveling into U.S. waters from outside the EEZ or between COTP Zones. Management measures to minimize the transport of attached living organisms and the passive discharge of biofouling are described in paragraphs (c) and (d) of this section.

(c) ***Anti-fouling coatings.***

(1) Anti-fouling coatings applied to the vessel must be specific to the operational profile of the vessel and the equipment to which it is applied, including, for biocidal coatings, having appropriate biocide release rates and components that are biodegradable once separated from the vessel surface.

(2) Anti-fouling coatings must be applied, maintained, and reapplied consistent with manufacturer specifications, including but not limited to the thickness, the method of application, and the lifespan of the coating.

(3) Anti-fouling coatings must not contain tributyltin (TBT) or any other organotin compound used as a biocide.

(i) Any vessel hull previously covered with an anti-fouling coating containing TBT (whether or not used as a biocide) or any other organotin compound (if used as a biocide) must:

(A) Maintain an effective overcoat that forms a barrier so that no TBT or other organotin leaches from the underlying anti-fouling coating; or

(B) Remove any TBT or other organotin compound from the vessel hull.

- (4) When an organotin compound other than TBT is used as a catalyst in the anti-fouling coating (e.g., dibutyltin), the anti-fouling coating must:
  - (i) Contain less than 2,500 mg total tin per kilogram of dry paint; and
  - (ii) Not be designed to slough or otherwise peel from the vessel hull, noting that incidental amounts of anti-fouling coating discharged by abrasion during cleaning or after contact with other hard surfaces (e.g., moorings) are acceptable.
- (5) Anti-fouling coatings must not contain cybutryne.
  - (i) Any vessel that has previously applied an anti-fouling coating that contains cybutryne in the external coating layer of their hulls or external parts or surfaces must:
    - (A) Apply and maintain an effective overcoat that forms a barrier so that no cybutryne leaches from the underlying anti-fouling coating, noting that incidental amounts of anti-fouling coating discharged by abrasion during cleaning or after contact with other hard surfaces (e.g., moorings) are acceptable; or
    - (B) Remove any cybutryne coating.
- (6) As appropriate based on vessel class and operations, alternatives to copper-based anti-fouling coatings (e.g., non-biocidal anti-fouling coatings) or coating with lower biocidal release rates must be considered for vessels spending 30 or more days per year in a copper-impaired waterbody or using these waters as their home port.

(d) **Cleaning.**

- (1) Cleanings should take place in drydock when practicable.
- (2) Hulls and niche areas must be managed to minimize biofouling such as through preventative cleaning of microfouling.
- (3) Hull and niche area cleanings must minimize damage to the anti-fouling coating, minimize release of biocides, and follow applicable cleaning requirements found on the coating manufacturers' instructions and any applicable FIFRA label.
- (4) Any discharge from in-water cleaning without capture of macrofouling is prohibited.
- (5) Any discharge from in-water cleaning without capture of any copper-based hull coating in a copper-impaired water body within the first 365 days after application of that coating is prohibited.
- (6) In-water cleaning must not be conducted on any section of an anti-fouling coating that shows excessive cleaning actions (e.g., brush marks) or blistering due to the internal failure of the paint system.
- (7) Any soap, cleaner, or detergent used on vessel surfaces, including but not limited to a scum line of the hull, must be minimally toxic, phosphate-free, and biodegradable.
- (8) Additional standards applicable to discharges from hulls and associated niche areas when a vessel is operating in federally-protected waters are contained in § 139.40(i).

**§ 139.23 Inert gas systems.**

There are no additional discharge-specific requirements that apply to the discharge of washwater from an inert gas system and deck seal water when used as an integral part of that system.

### § 139.24 Motor gasoline and compensating systems.

- (a) The requirements in paragraph (b) of this section apply to the discharge of motor gasoline and compensating ambient water added to keep gasoline tanks full to prevent potentially explosive gasoline vapors from forming.
- (b) Additional standards applicable to discharges from motor gasoline and compensating systems when a vessel is operating in federally-protected waters are contained in § 139.40(j).

### § 139.25 Non-oily machinery.

- (a) The requirements in paragraph (b) of this section apply to discharges from machinery that contains no oil, including but not limited to discharges from the operation of desalination systems, water chillers, valve packings, water piping, low- and high-pressure air compressors, propulsion engine jacket coolers, fire pumps, and seawater and potable water pumps.
- (b) The discharge of untreated non-oily machinery wastewater and packing gland or stuffing box effluent containing toxic or bioaccumulative additives, or the discharge of oil in such quantities as may be harmful, is prohibited.

### § 139.26 Pools and spas.

- (a) The requirements in paragraphs (b) and (c) of this section apply to discharges from pools and spas.
- (b) Except for unintentional or inadvertent releases from overflows across the decks and into overboard drains caused by, but not limited to, weather, vessel traffic, marine wildlife avoidance or navigational maneuvering, discharge of pool and spa water must:
  - (1) Occur only while the vessel is underway, unless determined to be infeasible; and
  - (2) Meet the following numeric discharge standard:
    - (i) For chlorine disinfection: total residual chlorine less than 100 µg/L; and
    - (ii) For bromine disinfection: total residual oxidant less than 25 µg/L.
- (c) Additional standards applicable to discharges from pools and spas when a vessel is operating in federally-protected waters are contained in § 139.40(k).

### § 139.27 Refrigeration and air conditioning.

- (a) The requirements in paragraph (b) of this section apply to discharges of condensation from refrigeration, air conditioning, and similar chilling equipment.
- (b) The direct overboard discharge of any condensate that contacts toxic or hazardous materials is prohibited.

### § 139.28 Seawater piping.

- (a) The requirements in paragraphs (b) through (d) of this section apply to discharges from seawater piping systems, including while a vessel is in port or in layup.
- (b) Seawater piping systems must be inspected, maintained, and cleaned as necessary to minimize the accumulation and discharge of biofouling organisms.

- (c) Seawater piping systems that accumulate macrofouling must be fitted with a Marine Growth Prevention System (MGPS).
  - (1) An MGPS must be selected to address:
    - (i) The level, frequency, and type of expected biofouling; and
    - (ii) The design, location, and area in which the system will be used.
  - (2) An MGPS must include one, or some combination of the following:
    - (i) Chemical injection;
    - (ii) Electrolysis, ultrasound, ultraviolet radiation, or electrochlorination;
    - (iii) Application of an antifouling coating;
    - (iv) Use of cupro-nickel piping; or
    - (v) Use of glass-reinforced/filament-wound epoxy-based composite piping.
  - (3) Upon identification of macrofouling in a seawater piping system, reactive measures to manage the macrofouling must be used. Discharges resulting from reactive measures to remove macrofouling are prohibited in port.
- (d) Additional standards applicable to discharges from seawater piping systems when a vessel is operating in federally-protected waters are contained in § 139.40(l).

## § 139.29 Sonar domes.

- (a) The requirements in paragraphs (b) and (c) of this section apply to discharges from sonar domes.
- (b) The discharge of water from inside the sonar dome is prohibited during maintenance or repair.
- (c) Any discharge from the use of bioaccumulative biocides on the exterior of the sonar dome is prohibited when non-bioaccumulative alternatives are available.

## Subpart D—Special Area Requirements

### § 139.40 Federally-protected waters.

- (a) **Applicability.** The requirements in paragraphs (b) through (l) of this section are in addition to applicable standards in subparts B and C of this part and apply when a vessel is operating in federally-protected waters.
- (b) **Ballast tanks.** The discharge or uptake of ballast water in federally-protected waters must be avoided except for vessels:
  - (1) Operating within the boundaries of any national marine sanctuary that preserves shipwrecks or maritime heritage in the Great Lakes, unless the designation documents for such sanctuary do not allow taking up or discharging ballast water in such sanctuary, pursuant to 16 U.S.C. 1431 note (Pub. L. 113-281, title VI, § 610, Dec. 18, 2014, 128 Stat. 3064, as amended by Pub. L. 114-120, title VI, § 602(1), Feb. 8, 2016, 130 Stat. 79); or
  - (2) That operate solely within federally-protected waters and take on and discharge ballast water exclusively in the contiguous portions of a single COTP Zone.

- (c) **Bilges.** For any vessel of 400 GT and above, the discharge of bilgewater into federally-protected waters is prohibited.
- (d) **Boilers.** The discharge of boiler blowdown into federally-protected waters is prohibited.
- (e) **Chain lockers.** The discharge of accumulated water and sediment from any chain locker into federally-protected waters is prohibited.
- (f) **Decks.** The discharge of deck washdown into federally-protected waters is prohibited except for those vessels operating exclusively within these protected waters provided the discharge is in compliance with all other requirements in § 139.15.
- (g) **Fire protection equipment.** The discharge from fire protection equipment into federally-protected water is prohibited except to comply with USCG fire drill requirements or anchor and anchor chain requirements in § 139.14. When USCG fire drills are conducted, the discharge of any firefighting foam into federally-protected waters is prohibited except by any vessel owned or under contract with the United States, State, or local government to do business exclusively in any federally-protected waters.
- (h) **Graywater systems.** The discharge of graywater into federally-protected waters from any vessel with remaining available graywater storage capacity is prohibited.
- (i) **Hulls and associated niche areas.** The discharge from in-water cleaning of vessel hulls and niche areas into federally-protected waters is prohibited except by any vessel owned or under contract with the United States, State, or local government to do business exclusively in any federally-protected waters.
- (j) **Motor gasoline and compensating systems.** The discharge of motor gasoline and compensating discharges into federally-protected waters is prohibited.
- (k) **Pools and spas.** The discharge of pool or spa water into federally-protected waters is prohibited.
- (l) **Seawater piping systems.** The discharge of chemical dosing, as described in § 139.28, into federally-protected waters is prohibited.

## Subpart E—Procedures for States to Request Changes to Standards, Regulations, or Policy Promulgated by the Administrator

### § 139.50 Petition by a Governor for the Administrator to establish an emergency order or review a standard, regulation, or policy.

- (a) The Governor of a State (or a designee) may submit a petition to the Administrator:
  - (1) To issue an emergency order under CWA section 312(p)(4)(E); or
  - (2) To review any standard of performance, regulation, or policy promulgated by the Administrator under CWA section 312(p)(4) or (6), if there exists new information that could reasonably result in a change to:
    - (i) The standard of performance, regulation, or policy; or
    - (ii) A determination on which the standard of performance, regulation, or policy was based.
- (b) A petition under paragraph (a) of this section shall be signed by the Governor (or a designee) and must include:

- (1) The purpose of the petition (request for emergency order or a review of a standard, regulation, or policy);
  - (2) Any applicable scientific or technical information that forms the basis of the petition;
  - (3) The direct and indirect benefits if the requested petition were to be granted by the Administrator; and
  - (4) For a petition under paragraph (a)(2) of this section, the costs to the affected classes, types, and/or sizes of vessels if the requested petition were to be granted by the Administrator.
- (c) The Administrator shall grant or deny:
- (1) A petition under paragraph (a)(1) of this section by not later than the date that is 180 days after the date on which the petition is submitted; and
  - (2) A petition under paragraph (a)(2) of this section by not later than the date that is one year after the date on which the petition is submitted.
- (d) If the Administrator determines to grant a petition:
- (1) In the case of a petition under paragraph (a)(1) of this section, the Administrator shall immediately issue the relevant emergency order under CWA section 312(p)(4)(E); or
  - (2) In the case of a petition under paragraph (a)(2) of this section, the Administrator shall sign a Notice of Proposed Rulemaking for publication in the FEDERAL REGISTER to revise the relevant standard, requirement, regulation, or policy under CWA section 312(p)(4) or (6), as applicable, as soon as possible and not later than 30 days after the date of the determination.
- (e) If the Administrator determines to deny a petition, the Administrator shall sign a notice of the determination for publication in the FEDERAL REGISTER that includes a detailed explanation of the scientific, technical, or operational factors that form the basis of the determination, as soon as possible and not later than 30 days after the date of the determination.

**§ 139.51 Petition by a Governor for the Administrator to establish enhanced Great Lakes System requirements.**

- (a) The Governors endorsing a proposed standard or requirement under CWA section 312(p)(10)(B)(ii)(III)(bb) may jointly submit to the Administrator and the Secretary for approval each proposed standard of performance or other requirement developed and endorsed pursuant to CWA section 312(p)(10)(B)(ii) with respect to any discharge that is subject to regulation under this part and occurs within the Great Lakes System.
- (b) A petition under paragraph (a) of this section must include:
  - (1) An explanation regarding why the applicable standard of performance or other requirement is at least as stringent as a comparable standard of performance or other requirement under this part;
  - (2) An explanation regarding why the standard of performance or other requirement is in accordance with maritime safety; and
  - (3) An explanation regarding why the standard of performance or other requirement is in accordance with applicable maritime and navigation laws and regulations.

- (c) On receipt of a proposed standard of performance or other requirement under paragraph (b) of this section, the Administrator and the Secretary shall sign and transmit to the Office of Federal Register for publication a joint notice that, at minimum:
  - (1) States that the proposed standard or requirement is publicly available; and
  - (2) Provides an opportunity for public comment regarding the proposed standard or requirement during the 90-day period beginning on the date of receipt by the Administrator of the proposed standard or requirement.
- (d) The Administrator shall commence a review of each proposed standard of performance or other requirement covered by the notice to determine whether that standard or requirement is at least as stringent as comparable standards and requirements under this part.
- (e) In carrying out paragraph (d) of this section, the Administrator:
  - (1) Shall consult with the Secretary,
  - (2) Shall consult with the Governor of each Great Lakes State and representatives from the Federal and provincial governments of Canada;
  - (3) Shall take into consideration any relevant data or public comments received under paragraph (c)(2) of this section; and
  - (4) Shall not take into consideration any preliminary assessment by the Great Lakes Commission or any dissenting opinion by a Governor of a Great Lakes State, except to the extent that such an assessment or opinion is relevant to the criteria for the applicable determination under paragraph (d) of this section.
- (f) If a Governor of a Great Lakes State withdraws the endorsement by not later than 90 days after the Administrator receives the proposed standard or requirement, and the withdrawal results in the proposed standard or requirement not having the applicable number of endorsements, the Administrator shall terminate review.
- (g) Upon review and determination, the Administrator and the Secretary shall approve each proposed standard or other requirement, unless the Administrator determines that the proposed standard or other requirement is not at least as stringent as comparable standards and requirements under this part or the Secretary determines that the proposed standard or requirement is not in accordance with maritime safety or is not in accordance with applicable maritime and navigation laws and regulations.
- (h) If the Administrator and the Secretary approve a proposed standard or other requirement, the Administrator and the Secretary shall sign a notice of the determination and transmit the notice to the Governor of each Great Lakes State and to the Office of Federal Register for publication.
- (i) If the Administrator and the Secretary disapprove a proposed standard or other requirement, the Administrator and the Secretary shall sign a notice of the determination and transmit it to the Governor of each Great Lakes State and to the Office of Federal Register for publication. The notice must include:
  - (1) A description of the reasons why the standard or requirement is, as applicable, less stringent than a comparable standard or requirement under this part, and
  - (2) Any recommendations regarding changes the Governors of the Great Lakes states could make to conform the disapproved portion of the standard or requirement to the requirements of this section.



- (j) The Administrator and the Secretary shall make an approval or disapproval determination under this section and transmit a notice of such determination to the Governor of each Great Lakes State and the Office of Federal Register not later than 180 days after the date of receipt of the proposed standard or regulation.
- (k) On approval by the Administrator and the Secretary of a proposed standard of performance or other requirement, the Administrator shall establish, by regulation, the proposed standard or requirement within the Great Lakes System in lieu of any comparable standard or other requirement promulgated under CWA section 312(p)(4). A requirement to prohibit one or more types of discharge, whether treated or not treated, into waters within the Great Lakes System shall not apply outside the waters of the Great Lakes states of the Governors endorsing the requirement.

**§ 139.52 Application by a State for the Administrator to establish a State no-discharge zone.**

- (a) If any State determines that the protection and enhancement of the quality of some or all of the waters within the State require greater environmental protection, the Governor of a State (or a designee) may submit an application to the Administrator to establish a regulation prohibiting one or more discharges, whether treated or not treated, into such waters subject to the application.
- (b) A prohibition by the Administrator under paragraph (a) of this section shall not apply until the Administrator, in concurrence with the Secretary, reviews the State application and makes the applicable determinations described in paragraph (d) of this section and publishes a regulation establishing the prohibition.
- (c) An application submitted by the State under paragraph (a) of this section shall be signed by the Governor (or a designee) and must include:
  - (1) A narrative explanation of the location of the proposed waters and a map delineating the boundaries of the requested prohibition using geographic coordinates;
  - (2) A certification that a prohibition of the discharge(s) would protect and enhance the quality of the specific waters within the State to a greater extent than the applicable Federal standard provides;
  - (3) A detailed analysis of the direct and indirect benefits of the requested prohibition for each individual discharge for which the State is seeking a prohibition;
  - (4) A table identifying the types and number of vessels operating in the waterbody and a table identifying the types and number of vessels that would be subject to the prohibition;
  - (5) A table identifying the location, operating schedule, draft requirements, pumpout capacity, pumpout flow rate, connections, and fee structure of each existing facility capable of servicing the vessels that would be subject to the prohibition and available to receive the prohibited discharge;
  - (6) A description of the wastewater handling procedures of each facility identified in paragraph (c)(5) of this section, including information on how wastewater is stored, transported, treated, and/or disposed by each facility;
  - (7) A map indicating the location of each stationary facility, and the coverage area of each mobile facility, identified in paragraph (c)(5) of this section within the proposed waters;
  - (8) A detailed analysis of the impacts to vessels subject to the prohibition, including a discussion of how these vessels may feasibly collect and store the discharge, the extent to which retrofitting may be required, costs that are incurred as a result of the discharge prohibition, and any safety implications.

- (d) On application of a State, the Administrator, in concurrence with the Secretary, shall, by regulation, prohibit the discharge from a vessel of one or more discharges subject to regulation under this part, whether treated or not treated, into the waters covered by the application if the Administrator determines that:
  - (1) The prohibition of the discharge(s) would protect and enhance the quality of the specified waters within the State;
  - (2) Adequate facilities for the safe and sanitary removal and treatment of the prohibited discharge(s) are reasonably available, including taking costs into consideration, for the water and all vessels to which the prohibition would apply. A determination of adequacy shall consider, at a minimum, water depth, dock size, pumpout facility capacity and flow rate, availability of year-round operations, proximity to navigation routes, the availability of operational changes as a means to reduce the discharge, and the ratio of pumpout facilities to the population and discharge capacity of vessels operating in those waters;
  - (3) The discharge(s) can be safely collected and stored until a vessel reaches an appropriate facility or location for discharge;
  - (4) In the case of an application for the prohibition of the discharge of ballast water in port (or in any other location where cargo, passengers, or fuel are loaded and unloaded):
    - (i) The considerations for adequate facilities described in paragraph (d)(2) of this section apply; and
    - (ii) The prohibition will not unreasonably interfere with the safe loading and unloading of cargo, passengers, or fuel.
- (e) The Administrator shall submit to the Secretary a request for written concurrence on a determination made to establish a prohibition.
  - (1) A failure by the Secretary to concur with the Administrator 60 days after the date on which the Administrator submits a request for concurrence shall not prevent the Administrator from prohibiting the discharge or discharges, subject to the condition that the Administrator shall include in the administrative record of the promulgation:
    - (i) Documentation of the request for concurrence; and
    - (ii) The response of the Administrator to any written objections received from the Secretary relating to the prohibition during the 60-day period beginning on the date of the request for concurrence.
- (f) If the Administrator determines that an application meets the criteria in paragraph (c) of this section and approves the application, the Administrator shall notify the State of the tentative approval and develop a Notice of Proposed Rulemaking for transmittal to the Office of the Federal Register.

## Appendix A to Part 139—Federally-Protected Waters

The asterisk (“\*”) modifier in appendix A to part 139 identifies those areas vessels subject to these Federal standards may be most likely to transit based on proximity to waters where these vessels may operate.

### A. 1 National Marine Sanctuaries

American Samoa National Marine Sanctuary \*

Channel Islands National Marine Sanctuary \*

Cordell Bank National Marine Sanctuary \*

Florida Keys National Marine Sanctuary \*

Greater Farallones National Marine Sanctuary \*

Hawaiian Islands Humpback Whale National Marine Sanctuary \*

Monterey Bay National Marine Sanctuary \*

Olympic Coast National Marine Sanctuary \*

Stellwagen Bank National Marine Sanctuary \*

## A.2 Marine National Monuments

Mariana Trench Marine National Monument \*

Northeast Canyons and Seamounts Marine National Monument \*

Pacific Remote Islands Marine National Monument \*

Papahānaumokuākea Marine National Monument \*

Rose Atoll Marine National Monument

## A. 3 National Parks (National Reserves and Monuments)

### Alabama

Birmingham Civil Rights National Monument

Freedom Riders National Monument

Horseshoe Bend National Military Park

Little River Canyon National Preserve

Muscle Shoals National Heritage Area

Natchez Trace National Scenic Trail \*

Russell Cave National Monument

Selma to Montgomery National Historic Trail

Trail of Tears National Historic Trail

Tuskegee Airmen National Historic Site

Tuskegee Institute National Historic Site

## **Alaska**

Aleutian World War II National Historic Area

Aniakchak National Monument and Preserve \*

Bering Land Bridge National Preserve \*

Cape Krusenstern National Monument \*

Chilkoot National Historic Trail

Denali National Park and Preserve

Gates of the Arctic National Park and Preserve \*

Glacier Bay National Park and Preserve \*

Iditarod National Historic Trail

Inupiat Heritage Center

Katmai National Park and Preserve \*

Kenai Fjords National Park \*

Kenai Mountains-Turnagain Arm National Heritage Area

Klondike Gold Rush National Historical Park \*

Kobuk Valley National Park \*

Lake Clark National Park and Preserve \*

Noatak National Preserve \*

Sitka National Historical Park \*

Wrangell-St. Elias National Park and Preserve \*

Yukon-Charley Rivers National Preserve \*

## **American Samoa**

National Park of American Samoa \*

## **Arizona**

Arizona National Scenic Trail

Butterfield Overland National Historic Trail

Canyon de Chelly National Monument

Casa Grande Ruins National Monument

Chiricahua National Monument

Coronado National Memorial

Fort Bowie National Historic Site

Glen Canyon National Recreation Area

Grand Canyon-Parashant National Monument

Grand Canyon National Park

Hohokam Pima National Monument

Hubbell Trading Post National Historic Site

Lake Mead National Recreation Area

Montezuma Castle National Monument

Navajo National Monument

Old Spanish National Historic Trail

Organ Pipe Cactus National Monument

Petrified Forest National Park

Pipe Spring National Monument

Saguaro National Park

Santa Cruz Valley National Heritage Area

Sunset Crater Volcano National Monument

Tonto National Monument

Tumacacori National Historical Park

Tuzigoot National Monument

Walnut Canyon National Monument

Wupatki National Monument

Yuma Crossing National Heritage Area

## **Arkansas**

Arkansas Post National Memorial \*

Buffalo National River \*

Butterfield Overland National Historic Trail

Charleston National Commemorative Site

Fort Smith National Historic Site \*

Hot Springs National Park

Little Rock Central High School National Historic Site

Mississippi Delta National Heritage Area

Pea Ridge National Military Park

President William Jefferson Clinton Birthplace Home National Historic Site

Trail of Tears National Historic Trail

## **California**

Butterfield Overland National Historic Trail

Cabrillo National Monument \*

California National Historic Trail

Castle Mountains National Monument

Cesar E. Chavez National Monument

Channel Islands National Park \*

Death Valley National Park

Devils Postpile National Monument

Eugene O'Neill National Historic Site

Fort Point National Historic Site \*

Golden Gate National Recreation Area \*

John Muir National Historic Site

Joshua Tree National Park

Juan Bautista de Anza National Historic Trail

Kings Canyon National Park

Lassen Volcanic National Park

Lava Beds National Monument

Manzanar National Historic Site

Mojave National Preserve

Muir Woods National Monument

Old Spanish National Historic Trail

Pacific Crest National Scenic Trail

Pinnacles National Park

Point Reyes National Seashore \*

Pony Express National Historic Trail

Port Chicago Naval Magazine National Memorial \*

Redwood National Park \*

Roosevelt Campobello International Park

Rosie the Riveter/World War II Home Front National Historical Park \*

Sacramento-San Joaquin Delta National Heritage Area

San Francisco Maritime National Historical Park \*

Santa Monica Mountains National Recreation Area \*

Sequoia National Park

Tule Lake National Monument

Whiskeytown-Shasta-Trinity National Recreation Area

Yosemite National Park

## **Colorado**

Amache National Historic Site

Bent's Old Fort National Historic Site

Black Canyon of the Gunnison National Park

Cache La Poudre River National Heritage Area

California National Historic Trail

Colorado National Monument

Continental Divide National Scenic Trail

Curecanti National Recreation Area

Dinosaur National Monument



Florissant Fossil Beds National Monument

Great Sand Dunes National Park and Preserve

Hovenweep National Monument

Mesa Verde National Park

Old Spanish National Historic Trail

Pony Express National Historic Trail

Rocky Mountain National Park

Sand Creek Massacre National Historic Site

Sangre de Cristo National Heritage Area

Santa Fe National Historic Trail

South Park National Heritage Area

Yucca House National Monument

## **Connecticut**

Appalachian National Scenic Trail \*

Coltsville National Historical Park

New England National Scenic Trail

The Last Green Valley National Heritage Corridor

Upper Housatonic Valley National Heritage Area

Washington-Rochambeau Revolutionary Route National Historic Trail

Weir Farm National Historical Park

## **Delaware**

Captain John Smith Chesapeake National Historic Trail

First State National Historical Park \*

Washington-Rochambeau Revolutionary Route National Historic Trail

## **District of Columbia**

Adams Memorial

Belmont-Paul Women's Equality National Monument

Captain John Smith Chesapeake National Historic Trail

Carter G. Woodson Home National Historic Site

Chesapeake and Ohio Canal National Historical Park \*

Constitution Gardens

Desert Storm/Desert Shield Memorial

Dwight D. Eisenhower Memorial

Ford's Theatre National Historic Site

Franklin Delano Roosevelt Memorial \*

Frederick Douglass National Historic Site

George Washington Memorial Parkway

Global War on Terrorism Memorial

Korean War Veterans Memorial \*

Lincoln Memorial \*

Lyndon Baines Johnson Memorial Grove on the Potomac \*

Martin Luther King Jr. Memorial \*

Mary McLeod Bethune Council House National Historic Site

National Capital Parks—East \*

National Mall and Memorial Parks

Pennsylvania Avenue National Historic Site

Potomac Heritage National Scenic Trail

Rock Creek Park

Star-Spangled Banner National Historic Trail

The White House and President's Park

Theodore Roosevelt Island \*

Thomas Jefferson Memorial \*

Vietnam Veterans Memorial

Washington-Rochambeau Revolutionary Route National Historic Trail

Washington Monument \*

World War I Memorial

World War II Memorial \*

## **Florida**

Big Cypress National Preserve \*

Biscayne National Park \*

Canaveral National Seashore \*

Castillo de San Marcos National Monument \*

De Soto National Memorial \*

Dry Tortugas National Park \*

Everglades National Park \*

Florida National Scenic Trail

Fort Caroline National Memorial \*

Fort Matanzas National Monument \*

Gulf Islands National Seashore \*

Gullah/Geechee Cultural Heritage Corridor

Timucuan Ecological and Historic Preserve \*

## **Georgia**

Andersonville National Historic Site

Appalachian National Scenic Trail

Arabia Mountain National Heritage Area

Augusta Canal National Heritage Area

Chattahoochee River National Recreation Area

Chickamauga and Chattanooga National Military Park \*

Cumberland Island National Seashore \*

Fort Frederica National Monument \*

Fort Pulaski National Monument \*

Gullah/Geechee Cultural Heritage Corridor

Jimmy Carter National Historical Park

Kennesaw Mountain National Battlefield Park

Kettle Creek Battlefield

Martin Luther King Jr. National Historical Park

Ocmulgee Mounds National Historical Park \*

Trail of Tears National Historic Trail

## **Guam**

War in the Pacific National Historical Park \*

## **Hawaii**

Ala Kahakai National Historic Trail

Haleakalā National Park \*

Hawai`i Volcanoes National Park \*

Honouliuli National Historic Site

Kalaupapa National Historical Park \*

Kaloko-Honōkahu National Historical Park \*

Pearl Harbor National Memorial \*

Pu`uhonua o Hōnaunau National Historical Park \*

Pu`ukoholā Heiau National Historic Site \*

## **Idaho**

California National Historic Trail

City of Rocks National Reserve

Continental Divide National Scenic Trail

Craters of the Moon National Monument and Preserve

Hagerman Fossil Beds National Monument

Lewis and Clark National Historic Trail

Minidoka National Historic Site \*

Nez Perce (Nee-Me-Poo) National Historic Trail

Nez Perce National Historical Park

Oregon National Historic Trail

Pacific Northwest National Scenic Trail

Yellowstone National Park

## **Illinois**

Abraham Lincoln National Heritage Area

Chicago Portage National Historic Site

Emmett Till and Mamie Till-Mobley National Monument

Gateway Arch National Park \*

Illinois and Michigan Canal National Heritage Corridor

Lewis and Clark National Historic Trail \*

Lincoln Home National Historic Site

Mormon Pioneer National Historic Trail

New Philadelphia National Historic Site

Pullman National Historical Park

Ronald Reagan Boyhood Home National Historic Site

Trail of Tears National Historic Trail

## **Indiana**

George Rogers Clark National Historical Park

Indiana Dunes National Park \*

Kennedy-King National Commemorative Site

Lewis and Clark National Historic Trail

Lincoln Boyhood National Memorial

## **Iowa**

America's Agricultural Heritage Partnership (Silos and Smokestacks National Heritage Area)

Effigy Mounds National Monument \*

Herbert Hoover National Historic Site

Lewis and Clark National Historic Trail

Mormon Pioneer National Historic Trail

## **Kansas**

Brown v. Board of Education National Historical Park

California National Historic Trail

Fort Larned National Historic Site

Fort Scott National Historic Site

Freedom's Frontier National Heritage Area

Lewis and Clark National Historic Trail

Nicodemus National Historic Site

Oregon National Historic Trail

Pony Express National Historic Trail

Quindaro Townsite

Santa Fe National Historic Trail

Tallgrass Prairie National Preserve

## **Kentucky**

Abraham Lincoln Birthplace National Historical Park

Big South Fork National River and Recreation Area

Camp Nelson National Monument \*

Cumberland Gap National Historical Park

Fort Donelson National Battlefield \*

Lewis and Clark National Historic Trail

Mammoth Cave National Park \*

Mill Springs Battlefield National Monument \*

Trail of Tears National Historic Trail

## **Louisiana**

Atchafalaya National Heritage Area

Cane River Creole National Historical Park

Cane River National Heritage Area

El Camino Real de los Tejas National Historic Trail

Jean Lafitte National Historical Park and Preserve \*

Mississippi Delta National Heritage Area

New Orleans Jazz National Historical Park

Poverty Point National Monument

Vicksburg National Military Park \*

## **Maine**

Acadia National Park \*

Appalachian National Scenic Trail

Katahdin Woods and Waters National Monument

Saint Croix Island International Historic Site

## **Maryland**

Antietam National Battlefield

Appalachian Forest National Heritage Area

Appalachian National Scenic Trail



Assateague Island National Seashore \*

Baltimore National Heritage Area

Captain John Smith Chesapeake National Historic Trail

Catoctin Mountain Park

Chesapeake and Ohio Canal National Historical Park

Clara Barton National Historic Site

Fort McHenry National Monument and Historic Shrine \*

Fort Washington Park \*

George Washington Memorial Parkway \*

Greenbelt Park

Hampton National Historic Site

Harpers Ferry National Historical Park

Harriet Tubman Underground Railroad National Historical Park

Journey Through Hallowed Ground National Heritage Area

Monocacy National Battlefield

National Capital Parks—East \*

Piscataway Park \*

Potomac Heritage National Scenic Trail

Star-Spangled Banner National Historic Trail

Thomas Stone National Historic Site

Washington-Rochambeau Revolutionary Route National Historic Trail

## **Massachusetts**

Adams National Historical Park

Appalachian National Scenic Trail

Boston African American National Historic Site \*

Boston Harbor Islands National Recreation Area \*

Boston National Historical Park \*

Cape Cod National Seashore \*

Essex National Heritage Area

Frederick Law Olmsted National Historic Site

Freedom's Way National Heritage Area

John Fitzgerald Kennedy National Historic Site

John H. Chafee Blackstone River Valley National Heritage Corridor

Longfellow—Washington's Headquarters National Historic Site

Lowell National Historical Park

Minute Man National Historical Park

New Bedford Whaling National Historical Park \*

New England National Scenic Trail

Salem Maritime National Historic Site \*

Saugus Iron Works National Historic Site \*

Springfield Armory National Historic Site

The Last Green Valley National Heritage Corridor

Upper Housatonic Valley National Heritage Area

Washington-Rochambeau Revolutionary Route National Historic Trail

## **Michigan**

Father Marquette National Memorial

Isle Royale National Park \*

Keweenaw National Historical Park \*

MotorCities National Heritage Area

North Country National Scenic Trail

Pictured Rocks National Lakeshore \*

River Raisin National Battlefield Park \*

Sleeping Bear Dunes National Lakeshore \*

## **Minnesota**

Grand Portage National Monument \*

Mississippi National River and Recreation Areas \*

North Country National Scenic Trail

Pipestone National Monument

Saint Croix National Scenic Riverway

Voyageurs National Park \*

## **Mississippi**

Brices Cross Roads National Battlefield Site

Emmett Till and Mamie Till-Mobley National Monument

Gulf Islands National Seashore

Medgar and Myrlie Evers Home National Monument

Mississippi Delta National Heritage Area

Mississippi Gulf Coast National Heritage Area

Mississippi Hills National Heritage Area

Natchez National Historical Park \*

Natchez Trace National Scenic Trail

Natchez Trace Parkway

Tupelo National Battlefield

Vicksburg National Military Park

## **Missouri**

Butterfield Overland National Historic Trail

California National Historic Trail

Freedom's Frontier National Heritage Area

Gateway Arch National Park

George Washington Carver National Monument

Harry S Truman National Historic Site

Lewis and Clark National Historic Trail

Oregon National Historic Trail

Ozark National Scenic Riverways

Pony Express National Historic Trail

Santa Fe National Historic Trail

Ste. Genevieve National Historical Park

Trail of Tears National Historic Trail

Ulysses S. Grant National Historic Site

Wilson's Creek National Battlefield

## **Montana**

Big Hole National Battlefield

Bighorn Canyon National Recreation Area

Continental Divide National Scenic Trail

Fort Union Trading Post National Historic Site

Glacier National Park

Grant-Kohrs Ranch National Historic Site

Lewis and Clark National Historic Trail

Little Bighorn Battlefield National Monument

Nez Perce (Nee-Me-Poo) National Historic Trail

Nez Perce National Historical Park

Pacific Northwest National Scenic Trail

Yellowstone National Park

## **Nebraska**

Agate Fossil Beds National Monument

California National Historic Trail

Chimney Rock National Historic Site

Homestead National Historical Park

Lewis and Clark National Historic Trail

Missouri National Recreational River \*

Mormon Pioneer National Historic Trail

Niobrara National Scenic River

Oregon National Historic Trail

Pony Express National Historic Trail

Scotts Bluff National Monument

## **Nevada**

California National Historic Trail

Death Valley National Park

Great Basin National Heritage Route

Great Basin National Park

Lake Mead National Recreation Area

Old Spanish National Historic Trail

Pony Express National Historic Trail

Tule Springs Fossil Beds National Monument

## **New Hampshire**

Appalachian National Scenic Trail

Freedom's Way National Heritage Area

Saint-Gaudens National Historical Park

## **New Jersey**

Appalachian National Scenic Trail

Crossroads of the American Revolution National Heritage Area

Delaware Water Gap National Recreation Area

Gateway National Recreation Area \*

Great Egg Harbor National Scenic and Recreational River

Middle Delaware National Scenic River

Morristown National Historical Park

Paterson Great Falls National Historical Park

Pinelands National Reserve

Statue of Liberty National Monument \*

Thomas Edison National Historical Park

Washington-Rochambeau Revolutionary Route National Historic Trail

## **New Mexico**

Aztec Ruins National Monument

Bandelier National Monument

Butterfield Overland National Historic Trail

Capulin Volcano National Monument

Carlsbad Caverns National Park

Chaco Culture National Historical Park

Continental Divide National Scenic Trail

El Camino de Tierra Adentro National Historic Trail

El Malpais National Monument

El Morro National Monument

Fort Union National Monument

Gila Cliff Dwellings National Monument

Manhattan Project National Historical Park

Northern Rio Grande National Heritage Area

Old Spanish National Historic Trail

Pecos National Historical Park

Petroglyph National Monument

Salinas Pueblo Missions National Monument

Santa Fe National Historic Trail

Valles Caldera National Preserve

White Sands National Park

## **New York**

African Burial Ground National Monument

Appalachian National Scenic Trail

Captain John Smith Chesapeake National Historic Trail

Castle Clinton National Monument \*

Champlain Valley National Heritage Partnership

Eleanor Roosevelt National Historic Site

Erie Canalway National Heritage Corridor

Federal Hall National Memorial

Fire Island National Seashore \*

Fort Stanwix National Monument

Gateway National Recreation Area \*

General Grant National Memorial

Governors Island National Monument \*

Hamilton Grange National Memorial

Harriet Tubman National Historical Park

Home of Franklin D. Roosevelt National Historic Site \*

Kate Mullany National Historic Site

Lower East Side Tenement National Historic Site

Martin Van Buren National Historic Site

Maurice D. Hinchey Hudson River National Heritage Area



Middle Delaware National Scenic River

Niagara Falls National Heritage Area

North Country National Scenic Trail

Sagamore Hill National Historic Site \*

Saint Paul's Church National Historic Site

Saratoga National Historical Park \*

Statue of Liberty National Monument \*

Stonewall National Monument

Theodore Roosevelt Birthplace National Historic Site

Theodore Roosevelt Inaugural National Historic Site

Thomas Cole National Historic Site

Upper Delaware Scenic and Recreational River

Vanderbilt Mansion National Historic Site \*

Washington-Rochambeau Revolutionary Route National Historic Trail

Women's Rights National Historical Park \*

## **North Carolina**

Appalachian National Scenic Trail

Blue Ridge National Heritage Area

Blue Ridge Parkway

Cape Hatteras National Seashore \*

Cape Lookout National Seashore \*

Carl Sandburg Home National Historic Site

Fort Raleigh National Historic Site \*

Great Smoky Mountains National Park

Guilford Courthouse National Military Park

Gullah/Geechee Cultural Heritage Corridor

Moore's Creek National Battlefield

Overmountain Victory National Historic Trail

Trail of Tears National Historic Trail

Wright Brothers National Memorial

## **North Dakota**

Fort Union Trading Post National Historic Site

International Peace Garden

Knife River Indian Villages National Historic Site

Lewis and Clark National Historic Trail

North Country National Scenic Trail

Northern Plains National Heritage Area

Theodore Roosevelt National Park

## **Northern Mariana Islands**

American Memorial Park \*

## **Ohio**

Charles Young Buffalo Soldiers National Monument

Cuyahoga Valley National Park

Dayton Aviation Heritage National Historical Park

Fallen Timbers Battlefield and Fort Miamis National Historic Site

First Ladies National Historic Site

Hopewell Culture National Historical Park

James A. Garfield National Historic Site

Lewis and Clark National Historic Trail

National Aviation National Heritage Area

North Country National Scenic Trail

Ohio and Erie National Heritage Canalway

Perry's Victory and International Peace Memorial \*

William Howard Taft National Historic Site

## **Oklahoma**

Butterfield Overland National Historic Trail

Chickasaw National Recreation Area

Fort Smith National Historic Site

Oklahoma City National Memorial

Santa Fe National Historic Trail

Trail of Tears National Historic Trail

Washita Battlefield National Historic Site

## **Oregon**

California National Historic Trail

Crater Lake National Park

John Day Fossil Beds National Monument

Lewis and Clark National Historic Trail

Lewis and Clark National Historical Park \*

Nez Perce (Nee-Me-Poo) National Historic Trail

Nez Perce National Historical Park

Oregon Caves National Monument and Preserve

Oregon National Historic Trail

Pacific Crest National Scenic Trail

## **Pennsylvania**

Allegheny Portage Railroad National Historic Site

Appalachian National Scenic Trail

Benjamin Franklin National Memorial

Captain John Smith Chesapeake National Historic Trail

Delaware and Lehigh National Heritage Corridor

Delaware Water Gap National Recreation Area

Edgar Allan Poe National Historic Site

Eisenhower National Historic Site

Flight 93 National Memorial

Fort Necessity National Battlefield

Friendship Hill National Historic Site \*

Gettysburg National Military Park

Gloria Dei (Old Swedes') Church National Historic Site

Hopewell Furnace National Historic Site

Independence National Historical Park \*

Johnstown Flood National Memorial

Journey Through Hallowed Ground National Heritage Area

Lackawanna Valley National Heritage Area

Lewis and Clark National Historic Trail

Middle Delaware National Scenic River

North Country National Scenic Trail

Oil Region National Heritage Area

Potomac Heritage National Scenic Trail

Rivers of Steel National Heritage Area

Schuylkill River Valley National Heritage Area

Southwestern Pennsylvania Industrial Heritage Route (Paths of Progress National Heritage Route)

Steamtown National Historic Site

Susquehanna National Heritage Area

Thaddeus Kosciuszko National Memorial

Upper Delaware Scenic and Recreational River

Valley Forge National Historical Park

Washington-Rochambeau Revolutionary Route National Historic Trail

## **Puerto Rico**

San Juan National Historic Site \*

## **Rhode Island**

Blackstone River Valley National Historical Park

John H. Chafee Blackstone River Valley National Heritage Corridor

Roger Williams National Memorial

Touro Synagogue National Historic Site

Washington-Rochambeau Revolutionary Route National Historic Trail

## South Carolina

Charles Pinckney National Historic Site

Congaree National Park \*

Cowpens National Battlefield

Eutaw Springs Battlefield

Fort Sumter and Fort Moultrie National Historical Park \*

Gullah/Geechee Cultural Heritage Co

Historic Camden Revolutionary War Site

Kings Mountain National Military Park

Ninety Six National Historic Site

Overmountain Victory National Historic Trail

Reconstruction Era National Historical Park \*

South Carolina National Heritage Corridor

## South Dakota

Badlands National Park

Jewel Cave National Monument

Lewis and Clark National Historic Trail

Minuteman Missile National Historic Site

Missouri National Recreational River

Mount Rushmore National Memorial

Wind Cave National Park

## Tennessee

Andrew Johnson National Historic Site

Appalachian National Scenic Trail

Big South Fork National River and Recreation Area

Chickamauga and Chattanooga National Military Park

Cumberland Gap National Historical Park

Fort Donelson National Battlefield

Great Smoky Mountains National Park

Manhattan Project National Historical Park \*

Natchez Trace National Scenic Trail

Overmountain Victory National Historic Trail

Parkers Crossroads Battlefield

Shiloh National Military Park \*

Stones River National Battlefield

Tennessee Civil War National Heritage Area

Trail of Tears National Historic Trail

## **Texas**

Alibates Flint Quarries National Monument

Amistad National Recreation Area \*

Big Bend National Park

Big Thicket National Preserve

Blackwell School National Historic Site

Butterfield Overland National Historic Trail

Chamizal National Memorial

El Camino de Tierra Adentro National Historic Trail

El Camino Real de los Tejas National Historic Trail

Fort Davis National Historic Site

Guadalupe Mountains National Park

Lake Meredith National Recreation Area

Lyndon B. Johnson National Historical Park

Padre Island National Seashore \*

Palo Alto Battlefield National Historical Park

Rio Grande Wild and Scenic River

San Antonio Missions National Historical Park

Waco Mammoth National Monument

## **Utah**

Arches National Park

Bryce Canyon National Park

California National Historic Trail

Canyonlands National Park

Capitol Reef National Park

Cedar Breaks National Monument

Dinosaur National Monument

Glen Canyon National Recreation Area

Golden Spike National Historical Park

Great Basin National Heritage Route

Hovenweep National Monument



Mormon Pioneer National Heritage Area

Mormon Pioneer National Historic Trail

Natural Bridges National Monument

Old Spanish National Historic Trail

Pony Express National Historic Trail

Rainbow Bridge National Monument

Timpanogos Cave National Monument

Zion National Park

## **Vermont**

Appalachian National Scenic Trail

Champlain Valley National Heritage Partnership

Marsh-Billings-Rockefeller National Historical Park

North Country National Scenic Trail

## **Virgin Islands**

Buck Island Reef National Monument \*

Christiansted National Historic Site \*

Salt River Bay National Historical Park and Ecological Preserve \*

Virgin Islands Coral Reef National Monument \*

Virgin Islands National Park \*

## **Virginia**

Appalachian National Scenic Trail

Appomattox Court House National Historical Park

Arlington House, The Robert E. Lee Memorial

Assateague Island National Seashore

Blue Ridge Parkway

Booker T. Washington National Monument

Captain John Smith Chesapeake National Historic Trail

Cedar Creek and Belle Grove National Historical Park

Colonial National Historical Park \*

Cumberland Gap National Historical Park

Fort Monroe National Monument \*

Fredericksburg and Spotsylvania County Battlefields Memorial National Military Park \*

George Washington Birthplace National Monument \*

George Washington Memorial Parkway

Green Springs National Historic Landmark District

Harpers Ferry National Historical Park

Jamestown National Historic Site

Journey Through Hallowed Ground National Heritage Area

Maggie L. Walker National Historic Site

Manassas National Battlefield Park

Natural Bridge State Park

Overmountain Victory National Historic Trail

Petersburg National Battlefield \*

Potomac Heritage National Scenic Trail

Prince William Forest Park

Red Hill Patrick Henry National Memorial

Richmond National Battlefield Park \*

Shenandoah National Park

Shenandoah Valley Battlefields National Historic District

Star-Spangled Banner National Historic Trail

Washington-Rochambeau Revolutionary Route National Historic Trail

Wolf Trap National Park for the Performing Arts

## **Washington**

Ebey's Landing National Historical Reserve \*

Fort Vancouver National Historic Site \*

Klondike Gold Rush National Historical Park

Lake Chelan National Recreation Area

Lake Roosevelt National Recreation Area \*

Lewis and Clark National Historic Trail

Lewis and Clark National Historical Park

Manhattan Project National Historical Park

Maritime Washington National Heritage Area

Mount Rainier National Park

Mountains to Sound Greenway National Heritage Area

Nez Perce National Historical Park

North Cascades National Park

Olympic National Park \*

Oregon National Historic Trail

Pacific Crest National Scenic Trail

Pacific Northwest National Scenic Trail

Ross Lake National Recreation Area

San Juan Island National Historical Park \*

Whitman Mission National Historic Site

Wing Luke Museum of the Asian Pacific American Experience

## **West Virginia**

Appalachian Forest National Heritage Area

Appalachian National Scenic Trail

Bluestone National Scenic River

Chesapeake and Ohio Canal National Historical Park

Gauley River National Recreation Area

Harpers Ferry National Historical Park

Lewis and Clark National Historic Trail

National Coal National Heritage Area

New River Gorge National Park and Preserve

Wheeling National Heritage Area

## **Wisconsin**

Apostle Islands National Lakeshore \*

Ice Age National Scenic Trail

Ice Age National Scientific Reserve

North Country National Scenic Trail

Saint Croix National Scenic Riverway

## Wyoming

Bighorn Canyon National Recreation Area

California National Historic Trail

Continental Divide National Scenic Trail

Devils Tower National Monument

Fort Laramie National Historic Site

Fossil Butte National Monument

Grand Teton National Park

John D. Rockefeller Jr. Memorial Parkway

Mormon Pioneer National Historic Trail

Nez Perce (Nee-Me-Poo) National Historic Trail

Oregon National Historic Trail

Pony Express National Historic Trail

Yellowstone National Park

### A. 4 National Wildlife Refuges

## Alabama

Bon Secour National Wildlife Refuge \*

Cahaba River National Wildlife Refuge

Choctaw National Wildlife Refuge \*

Eufaula National Wildlife Refuge \*

Fern Cave National Wildlife Refuge

Grand Bay National Wildlife Refuge \*

Key Cave National Wildlife Refuge \*

Mountain Longleaf National Wildlife Refuge

Sauta Cave National Wildlife Refuge

Watercress Darter National Wildlife Refuge

Wheeler National Wildlife Refuge \*

## **Alaska**

Alaska Maritime National Wildlife Refuge \*

Alaska Peninsula National Wildlife Refuge \*

Arctic National Wildlife Refuge \*

Becharof National Wildlife Refuge \*

Innoko National Wildlife Refuge \*

Izembek National Wildlife Refuge \*

Kanutai National Wildlife Refuge \*

Kenai National Wildlife Refuge \*

Kodiak National Wildlife Refuge \*

Koyukuk National Wildlife Refuge \*

Nowitna National Wildlife Refuge \*

Selawik National Wildlife Refuge \*

Tetlin National Wildlife Refuge

Togiak National Wildlife Refuge \*

Yukon Delta National Wildlife Refuge \*

Yukon Flats National Wildlife Refuge \*

## **American Samoa**

Rose Atoll National Wildlife Refuge \*

## **Arizona**

Bill Williams River National Wildlife Refuge

Buenos Aires National Wildlife Refuge

Cabeza Prieta National Wildlife Refuge

Cibola National Wildlife Refuge

Havasu National Wildlife Refuge

Imperial National Wildlife Refuge

Kofa National Wildlife Refuge

Leslie Canyon National Wildlife Refuge

San Bernardino National Wildlife Refuge

## **Arkansas**

Bald Knob National Wildlife Refuge

Big Lake National Wildlife Refuge

Cache River National Wildlife Refuge \*

Dale Bumpers White River National Wildlife Refuge \*

Felsenthal National Wildlife Refuge \*

Holla Bend National Wildlife Refuge \*

Logan Cave National Wildlife Refuge

Overflow National Wildlife Refuge

Pond Creek National Wildlife Refuge

Wapanocca National Wildlife Refuge

## **California**

Antioch Dunes National Wildlife Refuge \*

Bitter Creek National Wildlife Refuge

Blue Ridge National Wildlife Refuge

Butte Sink Wildlife Management Area

Castle Rock National Wildlife Refuge \*

Cibola National Wildlife Refuge

Clear Lake National Wildlife Refuge

Coachella Valley National Wildlife Refuge

Colusa National Wildlife Refuge

Delevan National Wildlife Refuge

Don Edwards San Francisco Bay National Wildlife Refuge \*

Ellicott Slough National Wildlife Refuge

Farallon Islands National Wildlife Refuge \*

Grasslands Wildlife Management Area

Guadalupe-Nipomo Dunes National Wildlife Refuge \*

Havasu National Wildlife Refuge

Hopper Mountain National Wildlife Refuge

Humboldt Bay National Wildlife Refuge \*

Imperial National Wildlife Refuge

Kern National Wildlife Refuge

Lower Klamath National Wildlife Refuge

Marin Islands National Wildlife Refuge \*

Merced National Wildlife Refuge



Modoc National Wildlife Refuge

Pixley National Wildlife Refuge

Sacramento National Wildlife Refuge

Sacramento River National Wildlife Refuge \*

Salinas River National Wildlife Refuge \*

San Diego Bay National Wildlife Refuge \*

San Diego National Wildlife Refuge

San Joaquin River National Wildlife Refuge

San Luis National Wildlife Refuge

San Pablo Bay National Wildlife Refuge \*

Seal Beach National Wildlife Refuge \*

Sonny Bono Salton Sea National Wildlife Refuge

Steve Thompson North Central Valley Wildlife Management Area \*

Stone Lakes National Wildlife Refuge \*

Sutter National Wildlife Refuge

Tijuana Slough National Wildlife Refuge \*

Tulare Basin Wildlife Management Area

Tule Lake National Wildlife Refuge

Willow Creek-Lurline Wildlife Management Area

## **Colorado**

Alamosa National Wildlife Refuge

Arapaho National Wildlife Refuge

Baca National Wildlife Refuge

Browns Park National Wildlife Refuge

Colorado River Wildlife Management Area

Monte Vista National Wildlife Refuge

Rocky Flats National Wildlife Refuge

Rocky Mountain Arsenal National Wildlife Refuge

San Luis Valley Conservation Area

Sangre De Cristo Conservation Area

Two Ponds National Wildlife Refuge

## **Connecticut**

Great Thicket National Wildlife Refuge \*

Silvio O. Conte National Fish And Wildlife Refuge

Stewart B. Mckinney National Wildlife Refuge \*

## **Delaware**

Bombay Hook National Wildlife Refuge \*

Prime Hook National Wildlife Refuge \*

## **Florida**

Archie Carr National Wildlife Refuge \*

Arthur R. Marshall Loxahatchee National Wildlife Refuge

Caloosahatchee National Wildlife Refuge \*

Cedar Keys National Wildlife Refuge \*

Chassahowitzka National Wildlife Refuge \*

Crocodile Lake National Wildlife Refuge \*

Crystal River National Wildlife Refuge \*

Egmont Key National Wildlife Refuge \*

Everglades Headwaters National Wildlife Refuge And Conservation Area

Everglades To Gulf Conservation Area

Florida Panther National Wildlife Refuge

Great White Heron National Wildlife Refuge \*

Island Bay National Wildlife Refuge \*

J. N. Ding Darling National Wildlife Refuge \*

Key West National Wildlife Refuge

Lake Wales Ridge National Wildlife Refuge

Lake Woodruff National Wildlife Refuge \*

Lower Suwannee National Wildlife Refuge \*

Matlacha Pass National Wildlife Refuge \*

Merritt Island National Wildlife Refuge \*

Nathaniel P. Reed Hobe Sound National Wildlife Refuge \*

National Key Deer Refuge \*

Okefenokee National Wildlife Refuge

Passage Key National Wildlife Refuge \*

Pelican Island National Wildlife Refuge \*

Pine Island National Wildlife Refuge \*

Pinellas National Wildlife Refuge \*

St. Johns National Wildlife Refuge

St. Marks National Wildlife Refuge \*

St. Vincent National Wildlife Refuge \*

Ten Thousand Islands National Wildlife Refuge \*

## **Georgia**

Banks Lake National Wildlife Refuge

Blackbeard Island National Wildlife Refuge \*

Bond Swamp National Wildlife Refuge \*

Eufaula National Wildlife Refuge \*

Harris Neck National Wildlife Refuge

Okefenokee National Wildlife Refuge

Piedmont National Wildlife Refuge

Savannah National Wildlife Refuge \*

Wassaw National Wildlife Refuge \*

Wolf Island National Wildlife Refuge \*

## **Guam**

Guam National Wildlife Refuge \*

## **Hawaii**

Hakalau Forest National Wildlife Refuge

Hanalei National Wildlife Refuge

Hawaiian Islands National Wildlife Refuge \*

Hul`ia National Wildlife Refuge

James Campbell National Wildlife Refuge \*

Kakahai`a National Wildlife Refuge \*

Kelia Pond National Wildlife Refuge \*

Kilauea Point National Wildlife Refuge \*

Ohahu Forest National Wildlife Refuge

Pearl Harbor National Wildlife Refuge \*

## **Idaho**

Bear Lake National Wildlife Refuge

Bear River Watershed Conservation Area

Camas National Wildlife Refuge

Deer Flat National Wildlife Refuge

Grays Lake National Wildlife Refuge

Kootenai National Wildlife Refuge

Minidoka National Wildlife Refuge

Oxford Slough Waterfowl Production Area

## **Illinois**

Chautauqua National Wildlife Refuge \*

Clarence Cannon National Wildlife Refuge \*

Crab Orchard National Wildlife Refuge

Cypress Creek National Wildlife Refuge \*

Emiquon National Wildlife Refuge \*

Great River National Wildlife Refuge \*

Hackmatack National Wildlife Refuge

Kankakee National Wildlife Refuge And Conservation Area

Meredosia National Wildlife Refuge \*

Middle Mississippi River National Wildlife Refuge \*

Port Louisa National Wildlife Refuge

Two Rivers National Wildlife Refuge \*

Upper Mississippi River National Wildlife And Fish Refuge \*

## **Indiana**

Big Oaks National Wildlife Refuge

Muscatatuck National Wildlife Refuge

Patoka River National Wildlife Refuge and Management Area

## **Iowa**

Desoto National Wildlife Refuge \*

Driftless Area National Wildlife Refuge

Iowa Wetland Management District

Neal Smith National Wildlife Refuge

Northern Tallgrass Prairie National Wildlife Refuge

Port Louisa National Wildlife Refuge \*

Union Slough National Wildlife Refuge

Upper Mississippi River National Wildlife and Fish Refuge \*

## **Kansas**

Flint Hills Legacy Conservation Area

Flint Hills National Wildlife Refuge

Kirwin National Wildlife Refuge

Marais Des Cygnes National Wildlife Refuge

Quivira National Wildlife Refuge

## **Kentucky**

Clarks River National Wildlife Refuge

Green River National Wildlife Refuge \*

Ohio River Islands National Wildlife Refuge \*

Reelfoot National Wildlife Refuge

## **Louisiana**

Atchafalaya National Wildlife Refuge

Bayou Cocodrie National Wildlife Refuge

Bayou Sauvage Urban National Wildlife Refuge \*

Bayou Teche National Wildlife Refuge \*

Big Branch Marsh National Wildlife Refuge \*

Black Bayou Lake National Wildlife Refuge

Bogue Chitto National Wildlife Refuge \*

Breton National Wildlife Refuge \*

Cameron Prairie National Wildlife Refuge \*

Cat Island National Wildlife Refuge \*

Catahoula National Wildlife Refuge

D'Arbonne National Wildlife Refuge

Delta National Wildlife Refuge \*

Grand Cote National Wildlife Refuge

Handy Brake National Wildlife Refuge

Lacassine National Wildlife Refuge \*

Lake Ophelia National Wildlife Refuge \*

Mandalay National Wildlife Refuge \*

Red River National Wildlife Refuge \*

Sabine National Wildlife Refuge \*

Shell Keys National Wildlife Refuge \*

Tensas River National Wildlife Refuge

Upper Ouachita National Wildlife Refuge \*

## **Maine**

Aroostook National Wildlife Refuge

Carlton Pond Waterfowl Production Area

Cross Island National Wildlife Refuge \*

Franklin Island National Wildlife Refuge \*

Great Thicket National Wildlife Refuge \*

Moosehorn National Wildlife Refuge

Petit Manan National Wildlife Refuge \*

Pond Island National Wildlife Refuge \*

Rachel Carson National Wildlife Refuge \*

Seal Island National Wildlife Refuge \*

Sunkhaze Meadows National Wildlife Refuge

Umbagog National Wildlife Refuge

## **Maryland**

Blackwater National Wildlife Refuge \*

Chincoteague National Wildlife Refuge \*



Eastern Neck National Wildlife Refuge \*

Martin National Wildlife Refuge \*

Patuxent Research Refuge

Susquehanna National Wildlife Refuge \*

## **Massachusetts**

Assabet River National Wildlife Refuge

Great Meadows National Wildlife Refuge

Mashpee National Wildlife Refuge

Massasoit National Wildlife Refuge

Monomoy National Wildlife Refuge \*

Nantucket National Wildlife Refuge \*

Nomans Land Island National Wildlife Refuge \*

Oxbow National Wildlife Refuge

Parker River National Wildlife Refuge \*

Silvio O. Conte National Fish And Wildlife Refuge \*

Thacher Island National Wildlife Refuge \*

## **Michigan**

Detroit River International Wildlife Refuge \*

Green Bay National Wildlife Refuge \*

Harbor Island National Wildlife Refuge \*

Huron National Wildlife Refuge \*

Kirtland's Warbler Wildlife Management Area

Michigan Islands National Wildlife Refuge \*

Michigan Wetland Management District

Seney National Wildlife Refuge \*

Shiawassee National Wildlife Refuge

## **Minnesota**

Agassiz National Wildlife Refuge

Big Stone National Wildlife Refuge

Big Stone Wetland Management District

Crane Meadows National Wildlife Refuge

Detroit Lakes Wetland Management District

Fergus Falls Wetland Management District

Glacial Ridge National Wildlife Refuge

Hamden Slough National Wildlife Refuge

Litchfield Wetland Management District

Mille Lacs National Wildlife Refuge

Minnesota Valley National Wildlife Refuge \*

Minnesota Valley Wetland Management District

Morris Wetland Management District

Northern Tallgrass Prairie National Wildlife Refuge

Rice Lake National Wildlife Refuge

Rydell National Wildlife Refuge

Sherburne National Wildlife Refuge

Tamarac National Wildlife Refuge

Tamarac Wetland Management District

Upper Mississippi River National Wildlife And Fish Refuge \*

Windom Wetland Management District

## **Mississippi**

Bogue Chitto National Wildlife Refuge \*

Coldwater River National Wildlife Refuge

Dahomey National Wildlife Refuge

Grand Bay National Wildlife Refuge \*

Hillside National Wildlife Refuge

Holt Collier National Wildlife Refuge

Mathews Brake National Wildlife Refuge \*

Mississippi Sandhill Crane National Wildlife Refuge \*

Morgan Brake National Wildlife Refuge

Panther Swamp National Wildlife Refuge \*

Sam D. Hamilton Noxubee National Wildlife Refuge

St. Catherine Creek National Wildlife Refuge \*

Tallahatchie National Wildlife Refuge

Theodore Roosevelt National Wildlife Refuge \*

Yazoo National Wildlife Refuge

## **Missouri**

Big Muddy National Fish And Wildlife Refuge \*

Clarence Cannon National Wildlife Refuge \*

Great River National Wildlife Refuge

Loess Bluffs National Wildlife Refuge

Middle Mississippi River National Wildlife Refuge \*

Mingo National Wildlife Refuge

Ozark Cavefish National Wildlife Refuge

Pilot Knob National Wildlife Refuge

Swan Lake National Wildlife Refuge

Two Rivers National Wildlife Refuge

## **Montana**

Benton Lake National Wildlife Refuge

Benton Lake Wetland Management District

Black Coulee National Wildlife Refuge

Blackfoot Valley Conservation Area

Bowdoin National Wildlife Refuge

Bowdoin Wetland Management District

Charles M. Russell National Wildlife Refuge

Charles M. Russell Wetland Management District

Creedman Coulee National Wildlife Refuge

Grass Lake National Wildlife Refuge

Hailstone National Wildlife Refuge

Hewitt Lake National Wildlife Refuge

Lake Mason National Wildlife Refuge

Lake Thibadeau National Wildlife Refuge

Lamesteer National Wildlife Refuge

Lee Metcalf National Wildlife Refuge

Lost Trail Conservation Area

Lost Trail National Wildlife Refuge

Medicine Lake National Wildlife Refuge

Ninepipe National Wildlife Refuge

Northeast Montana Wetland Management District

Northwest Montana Wetland Management District

Pablo National Wildlife Refuge

Red Rock Lakes National Wildlife Refuge

Rocky Mountain Front Conservation Area

Swan River National Wildlife Refuge

Swan Valley Conservation Area

UL

Bend National Wildlife Refuge

War Horse National Wildlife Refuge

## **Nebraska**

Boyer Chute National Wildlife Refuge \*

Crescent Lake National Wildlife Refuge

Desoto National Wildlife Refuge \*

Fort Niobrara National Wildlife Refuge

John W. and Louise Seier National Wildlife Refuge

Karl E. Mundt National Wildlife Refuge

North Platte National Wildlife Refuge

Rainwater Basin Wetland Management District

Valentine National Wildlife Refuge

## **Nevada**

Anaho Island National Wildlife Refuge

Ash Meadows National Wildlife Refuge

Desert National Wildlife Refuge

Fallon National Wildlife Refuge

Moapa Valley National Wildlife Refuge

Pahranagat National Wildlife Refuge

Ruby Lake National Wildlife Refuge

Sheldon National Wildlife Refuge

Stillwater National Wildlife Refuge

## **New Hampshire**

Great Bay National Wildlife Refuge \*

John Hay National Wildlife Refuge

Silvio O. Conte National Fish And Wildlife Refuge \*

Umbagog National Wildlife Refuge

Wapack National Wildlife Refuge

## **New Jersey**

Cape May National Wildlife Refuge \*

Edwin B. Forsythe National Wildlife Refuge \*

Great Swamp National Wildlife Refuge

Supawna Meadows National Wildlife Refuge \*

Wallkill River National Wildlife Refuge

## **New Mexico**

Bitter Lake National Wildlife Refuge

Bosque Del Apache National Wildlife Refuge

Grulla National Wildlife Refuge

Las Vegas National Wildlife Refuge

Maxwell National Wildlife Refuge

Rio Mora National Wildlife Refuge and Conservation Area

San Andres National Wildlife Refuge

Sangre De Cristo Conservation Area

Sevilleta National Wildlife Refuge

Valle De Oro National Wildlife Refuge

## **New York**

Amagansett National Wildlife Refuge \*

Congressman Lester Wolff Oyster Bay National Wildlife Refuge \*

Conscience Point National Wildlife Refuge \*

Elizabeth A. Morton National Wildlife Refuge \*

Great Thicket National Wildlife Refuge \*

Iroquois National Wildlife Refuge

Lido Beach Wildlife Management Area \*

Montezuma National Wildlife Refuge \*

Seatuck National Wildlife Refuge \*

Shawangunk Grasslands National Wildlife Refuge

Target Rock National Wildlife Refuge \*

Wallkill River National Wildlife Refuge

Wertheim National Wildlife Refuge \*

## **North Carolina**

Alligator River National Wildlife Refuge \*

Cedar Island National Wildlife Refuge \*

Currituck National Wildlife Refuge \*

Great Dismal Swamp National Wildlife Refuge \*

Mackay Island National Wildlife Refuge \*

Mattamuskeet National Wildlife Refuge

Mountain Bogs National Wildlife Refuge

Pea Island National Wildlife Refuge \*

Pee Dee National Wildlife Refuge

Pocosin Lakes National Wildlife Refuge \*

Roanoke River National Wildlife Refuge \*

Swanquarter National Wildlife Refuge \*

## **North Dakota**

Appert Lake National Wildlife Refuge

Ardoch National Wildlife Refuge

Arrowwood National Wildlife Refuge

Arrowwood Wetland Management District

Audubon National Wildlife Refuge

Audubon Wetland Management District



Bone Hill National Wildlife Refuge

Brumba National Wildlife Refuge

Buffalo Lake National Wildlife Refuge

Camp Lake National Wildlife Refuge

Canfield Lake National Wildlife Refuge

Chase Lake National Wildlife Refuge

Chase Lake Wetland Management District

Cottonwood Lake National Wildlife Refuge

Crosby Wetland Management District

Dakota Grassland Conservation Area

Dakota Lake National Wildlife Refuge

Dakota Tallgrass Prairie Wildlife Management Area

Des Lacs National Wildlife Refuge

Devils Lake Wetland Management District

Florence Lake National Wildlife Refuge

Half-Way Lake National Wildlife Refuge

Hiddenwood National Wildlife Refuge

Hobart Lake National Wildlife Refuge

Hutchinson Lake National Wildlife Refuge

J. Clark Salyer National Wildlife Refuge

J. Clark Salyer Wetland Management District

Johnson Lake National Wildlife Refuge

Kellys Slough National Wildlife Refuge

Kulm Wetland Management District

Lake Alice National Wildlife Refuge

Lake George National Wildlife Refuge

Lake Ilo National Wildlife Refuge

Lake Nettie National Wildlife Refuge

Lake Otis National Wildlife Refuge

Lake Patricia National Wildlife Refuge

Lake Zahl National Wildlife Refuge

Lambs Lake National Wildlife Refuge

Little Goose National Wildlife Refuge

Long Lake National Wildlife Refuge

Long Lake Wetland Management District

Lords Lake National Wildlife Refuge

Lost Lake National Wildlife Refuge

Lostwood National Wildlife Refuge

Lostwood Wetland Management District

Maple River National Wildlife Refuge

Mclean National Wildlife Refuge

North Dakota Wildlife Management Area

Pleasant Lake National Wildlife Refuge

Pretty Rock National Wildlife Refuge

Rabb Lake National Wildlife Refuge

Rock Lake National Wildlife Refuge

Rose Lake National Wildlife Refuge

School Section Lake National Wildlife Refuge

Shell Lake National Wildlife Refuge

Sheyenne Lake National Wildlife Refuge

Sibley Lake National Wildlife Refuge

Silver Lake National Wildlife Refuge

Slade National Wildlife Refuge

Snyder Lake National Wildlife Refuge

Springwater National Wildlife Refuge

Stewart Lake National Wildlife Refuge

Stoney Slough National Wildlife Refuge

Storm Lake National Wildlife Refuge

Stump Lake National Wildlife Refuge

Sunburst Lake National Wildlife Refuge

Tewaukon National Wildlife Refuge

Tewaukon Wetland Management District

Tomahawk National Wildlife Refuge

Upper Souris National Wildlife Refuge

Valley City Wetland Management District

White Horse Hill National Game Preserve

White Lake National Wildlife Refuge

Wild Rice Lake National Wildlife Refuge

Willow Lake National Wildlife Refuge

Wintering River National Wildlife Refuge

Wood Lake National Wildlife Refuge

## **Ohio**

Cedar Point National Wildlife Refuge \*

Ottawa National Wildlife Refuge \*

West Sister Island National Wildlife Refuge \*

## **Oklahoma**

Deep Fork National Wildlife Refuge

Little River National Wildlife Refuge

Optima National Wildlife Refuge

Ozark Plateau National Wildlife Refuge

Salt Plains National Wildlife Refuge

Sequoyah National Wildlife Refuge \*

Tishomingo National Wildlife Refuge

Washita National Wildlife Refuge

Wichita Mountains Wildlife Refuge

## **Oregon**

Ankeny National Wildlife Refuge \*

Bandon Marsh National Wildlife Refuge \*

Baskett Slough National Wildlife Refuge

Bear Valley National Wildlife Refuge

Cape Meares National Wildlife Refuge \*

Cold Springs National Wildlife Refuge

Deer Flat National Wildlife Refuge

Hart Mountain National Antelope Refuge

Julia Butler Hansen Refuge For The Columbian White Tail Deer \*

Klamath Marsh National Wildlife Refuge

Lewis And Clark National Wildlife Refuge \*

Lower Klamath National Wildlife Refuge

Malheur National Wildlife Refuge

Mckay Creek National Wildlife Refuge

Mcnary National Wildlife Refuge \*

Nestucca Bay National Wildlife Refuge \*

Oregon Islands National Wildlife Refuge \*

Sheldon National Wildlife Refuge

Siletz Bay National Wildlife Refuge \*

Three Arch Rocks National Wildlife Refuge \*

Tualatin River National Wildlife Refuge

Umatilla National Wildlife Refuge \*

Upper Klamath National Wildlife Refuge

Wapato Lake National Wildlife Refuge

William L. Finley National Wildlife Refuge

## **Pennsylvania**

Cherry Valley National Wildlife Refuge

Erie National Wildlife Refuge

John Heinz National Wildlife Refuge At Tinicum

Ohio River Islands National Wildlife Refuge \*

## **Puerto Rico**

Cabo Rojo National Wildlife Refuge \*

Culebra National Wildlife Refuge \*

Desecheo National Wildlife Refuge \*

Laguna Cartagena National Wildlife Refuge

Vieques National Wildlife Refuge \*

## **Rhode Island**

Block Island National Wildlife Refuge \*

John H. Chafee National Wildlife Refuge

Ninigret National Wildlife Refuge \*

Sachuest Point National Wildlife Refuge \*

Trustom Pond National Wildlife Refuge \*

## **South Carolina**

Cape Romain National Wildlife Refuge \*

Carolina Sandhills National Wildlife Refuge

Ernest F. Hollings Ace Basin National Wildlife Refuge \*

Pinckney Island National Wildlife Refuge \*

Santee National Wildlife Refuge \*

Savannah National Wildlife Refuge \*

Tybee National Wildlife Refuge \*

Waccamaw National Wildlife Refuge \*

## South Dakota

Bear Butte National Wildlife Refuge

Dakota Grassland Conservation Area

Dakota Tallgrass Prairie Wildlife Management Area

Huron Wetland Management District

Karl E. Mundt National Wildlife Refuge

Lacreek National Wildlife Refuge

Lake Andes National Wildlife Refuge

Lake Andes Wetland Management District

Madison Wetland Management District

Sand Lake National Wildlife Refuge

Sand Lake Wetland Management District

Waubay National Wildlife Refuge

Waubay Wetland Management District

## Tennessee

Chickasaw National Wildlife Refuge \*

Cross Creeks National Wildlife Refuge \*

Hatchie National Wildlife Refuge

Lake Isom National Wildlife Refuge

Lower Hatchie National Wildlife Refuge \*

Paint Rock River National Wildlife Refuge

Reelfoot National Wildlife Refuge

Tennessee National Wildlife Refuge \*

## **Texas**

Anahuac National Wildlife Refuge \*

Aransas National Wildlife Refuge \*

Attwater Prairie Chicken National Wildlife Refuge

Balcones Canyonlands National Wildlife Refuge

Big Boggy National Wildlife Refuge \*

Brazoria National Wildlife Refuge \*

Buffalo Lake National Wildlife Refuge

Caddo Lake National Wildlife Refuge

Grulla National Wildlife Refuge

Hagerman National Wildlife Refuge

Laguna Atascosa National Wildlife Refuge \*

Little Sandy National Wildlife Refuge

Lower Rio Grande Valley National Wildlife Refuge \*

Mcfaddin National Wildlife Refuge \*

Moody National Wildlife Refuge \*

Muleshoe National Wildlife Refuge

Neches River National Wildlife Refuge

San Bernard National Wildlife Refuge \*

Santa Ana National Wildlife Refuge

Texas Point National Wildlife Refuge \*

Trinity River National Wildlife Refuge \*

## **United States Minor Outlying Islands**



Baker Island National Wildlife Refuge \*

Howland Island National Wildlife Refuge \*

Jarvis Island National Wildlife Refuge \*

Johnston Atoll National Wildlife Refuge \*

Kingman Reef National Wildlife Refuge \*

Mariana Arc Of Fire National Wildlife Refuge \*

Mariana Trench National Wildlife Refuge

Midway Atoll National Wildlife Refuge \*

Navassa Island National Wildlife Refuge \*

Palmyra Atoll National Wildlife Refuge \*

Wake Atoll National Wildlife Refuge \*

## **Utah**

Bear River Migratory Bird Refuge

Bear River Watershed Conservation Area

Colorado River Wildlife Management Area

Fish Springs National Wildlife Refuge

Ouray National Wildlife Refuge

## **Vermont**

Missisquoi National Wildlife Refuge \*

Silvio O. Conte National Fish And Wildlife Refuge \*

## **Virgin Islands**

Buck Island National Wildlife Refuge \*

Green Cay National Wildlife Refuge \*

Sandy Point National Wildlife Refuge \*

## **Virginia**

Back Bay National Wildlife Refuge \*

Chincoteague National Wildlife Refuge \*

Eastern Shore Of Virginia National Wildlife Refuge \*

Elizabeth Hartwell Mason Neck National Wildlife Refuge \*

Featherstone National Wildlife Refuge \*

Fisherman Island National Wildlife Refuge \*

Great Dismal Swamp National Wildlife Refuge \*

James River National Wildlife Refuge \*

Mackay Island National Wildlife Refuge \*

Martin National Wildlife Refuge \*

Nansemond National Wildlife Refuge \*

Occoquan Bay National Wildlife Refuge \*

Plum Tree Island National Wildlife Refuge \*

Presquile National Wildlife Refuge \*

Rappahannock River Valley National Wildlife Refuge \*

Wallops Island National Wildlife Refuge \*

## **Washington**

Billy Frank Jr. Nisqually National Wildlife Refuge \*

Columbia National Wildlife Refuge

Conboy Lake National Wildlife Refuge

Copalis National Wildlife Refuge \*

Dungeness National Wildlife Refuge \*

Flattery Rocks National Wildlife Refuge \*

Franz Lake National Wildlife Refuge \*

Grays Harbor National Wildlife Refuge \*

Julia Butler Hansen Refuge For The Columbian White Tail Deer

Little Pend Oreille National Wildlife Refuge

Mcnary National Wildlife Refuge \*

Pierce National Wildlife Refuge

Protection Island National Wildlife Refuge \*

Quillayute Needles National Wildlife Refuge \*

Ridgefield National Wildlife Refuge \*

Saddle Mountain National Wildlife Refuge

San Juan Islands National Wildlife Refuge \*

Steigerwald Lake National Wildlife Refuge

Toppenish National Wildlife Refuge

Turnbull National Wildlife Refuge

Umatilla National Wildlife Refuge \*

Willapa National Wildlife Refuge \*

## **West Virginia**

Canaan Valley National Wildlife Refuge

Ohio River Islands National Wildlife Refuge \*

## **Wisconsin**

Fox River National Wildlife Refuge

Gravel Island National Wildlife Refuge \*

Green Bay National Wildlife Refuge \*

Hackmatack National Wildlife Refuge

Horicon National Wildlife Refuge

Leopold Wetland Management District

Necedah National Wildlife Refuge

St. Croix Wetland Management District

Trempealeau National Wildlife Refuge \*

Upper Mississippi River National Wildlife And Fish Refuge \*

Whittlesey Creek National Wildlife Refuge \*

## **Wyoming**

Bamforth National Wildlife Refuge

Bear River Watershed Conservation Area

Cokeville Meadows National Wildlife Refuge

Hutton Lake National Wildlife Refuge

Mortenson Lake National Wildlife Refuge

National Elk Refuge

Pathfinder National Wildlife Refuge

Seedskaadee National Wildlife Refuge

Wyoming Toad Conservation Area

## **A. 5 National Wilderness Areas**

## **Alabama**

Cheaha Wilderness

Dugger Mountain Wilderness

Sipsey Wilderness

## **Alaska**

Aleutian Islands Wilderness \*

Andreafsky Wilderness

Becharof Wilderness \*

Bering Sea Wilderness \*

Bogoslof Wilderness \*

Chamisso Wilderness \*

Chuck River Wilderness \*

Coronation Island Wilderness \*

Denali Wilderness

Endicott River Wilderness

Forrester Island Wilderness \*

Gates of the Arctic Wilderness \*

Glacier Bay Wilderness \*

Hazy Islands Wilderness \*

Innoko Wilderness

Izembek Wilderness \*

Jay S. Hammond Wilderness \*

Karta River Wilderness \*

Katmai Wilderness \*

Kenai Wilderness \*

Kobuk Valley Wilderness \*

Kootznoowoo Wilderness \*

Koyukuk Wilderness \*

Kuiu Wilderness \*

Maurelle Islands Wilderness \*

Misty Fjords National Monument Wilderness \*

Mollie Beattie Wilderness \*

Noatak Wilderness

Nunivak Wilderness \*

Petersburg Creek-Duncan Salt Chuck Wilderness \*

Pleasant/Lemusurier/Inian Islands Wilderness \*

Russell Fjord Wilderness \*

Saint Lazaria Wilderness \*

Selawik Wilderness

Semidi Wilderness \*

Simeonof Wilderness \*

South Baranof Wilderness \*

South Etolin Wilderness \*

South Prince of Wales Wilderness \*

Stikine-LeConte Wilderness \*

Tebenkof Bay Wilderness \*

Togiak Wilderness

Tracy Arm-Fords Terror Wilderness \*

Tuxedni Wilderness \*

Unimak Wilderness \*

Warren Island Wilderness \*

West Chichagof-Yakobi Wilderness \*

Wrangell-Saint Elias Wilderness \*

## **Arizona**

Apache Creek Wilderness

Aravaipa Canyon Wilderness

Arrastra Mountain Wilderness

Aubrey Peak Wilderness

Baboquivari Peak Wilderness

Bear Wallow Wilderness

Beaver Dam Mountains Wilderness

Big Horn Mountains Wilderness

Cabeza Prieta Wilderness

Castle Creek Wilderness

Cedar Bench Wilderness

Chiricahua National Monument Wilderness

Chiricahua Wilderness

Cottonwood Point Wilderness

Coyote Mountains Wilderness

Dos Cabezas Mountains Wilderness

Eagletail Mountains Wilderness

East Cactus Plain Wilderness

Escudilla Wilderness

Fishhooks Wilderness

Fossil Springs Wilderness

Four Peaks Wilderness

Galiuro Wilderness

Gibraltar Mountain Wilderness

Grand Wash Cliffs Wilderness

Granite Mountain Wilderness

Harcuvar Mountains Wilderness

Harquahala Mountains Wilderness

Hassayampa River Canyon Wilderness

Havasu Wilderness

Hells Canyon Wilderness

Hellsgate Wilderness

Hummingbird Springs Wilderness

Imperial Refuge Wilderness

Juniper Mesa Wilderness

Kachina Peaks Wilderness

Kanab Creek Wilderness

Kendrick Mountain Wilderness



Kofa Wilderness

Mazatzal Wilderness

Miller Peak Wilderness

Mount Baldy Wilderness

Mount Logan Wilderness

Mount Nutt Wilderness

Mount Tipton Wilderness

Mount Trumbull Wilderness

Mount Wilson Wilderness

Mt. Wrightson Wilderness

Muggins Mountain Wilderness

Munds Mountain Wilderness

Needle's Eye Wilderness

New Water Mountains Wilderness

North Maricopa Mountains Wilderness

North Santa Teresa Wilderness

Organ Pipe Cactus Wilderness

Paiute Wilderness

Pajarita Wilderness

Paria Canyon-Vermilion Cliffs Wilderness

Peloncillo Mountains Wilderness

Petrified Forest National Wilderness Area

Pine Mountain Wilderness

Pusch Ridge Wilderness

Rawhide Mountains Wilderness

Red Rock-Secret Mountain Wilderness

Redfield Canyon Wilderness

Rincon Mountain Wilderness

Saddle Mountain Wilderness

Saguaro Wilderness

Salome Wilderness

Salt River Canyon Wilderness

Santa Teresa Wilderness

Sierra Ancha Wilderness

Sierra Estrella Wilderness

Signal Mountain Wilderness

South Maricopa Mountains Wilderness

Strawberry Crater Wilderness

Superstition Wilderness

Swansea Wilderness

Sycamore Canyon Wilderness

Table Top Wilderness

Tres Alamos Wilderness

Trigo Mountain Wilderness

Upper Burro Creek Wilderness

Wabayuma Peak Wilderness

Warm Springs Wilderness

West Clear Creek Wilderness

Wet Beaver Wilderness

White Canyon Wilderness

Woodchute Wilderness

Woolsey Peak Wilderness

## **Arkansas**

Big Lake Wilderness

Black Fork Mountain Wilderness

Buffalo National River Wilderness \*

Caney Creek Wilderness

Dry Creek Wilderness

East Fork Wilderness

Flatside Wilderness

Hurricane Creek Wilderness

Leatherwood Wilderness

Poteau Mountain Wilderness

Richland Creek Wilderness

Upper Buffalo Wilderness

## **California**

Agua Tibia Wilderness

Ansel Adams Wilderness

Argus Range Wilderness

Avawatz Mountains Wilderness

Beauty Mountain Wilderness

Big Maria Mountains Wilderness

Bigelow Cholla Garden Wilderness

Bighorn Mountain Wilderness

Black Mountain Wilderness

Bright Star Wilderness

Bristol Mountains Wilderness

Bucks Lake Wilderness

Buzzards Peak Wilderness

Cache Creek Wilderness

Cadiz Dunes Wilderness

Cahuilla Mountain Wilderness

Caribou Wilderness

Carrizo Gorge Wilderness

Carson-Iceberg Wilderness

Castle Crags Wilderness

Cedar Roughs Wilderness

Chanchelulla Wilderness

Chemehuevi Mountains Wilderness

Chimney Peak Wilderness

Chuckwalla Mountains Wilderness

Chumash Wilderness

Cleghorn Lakes Wilderness

Clipper Mountain Wilderness

Coso Range Wilderness

Coyote Mountains Wilderness

Cucamonga Wilderness

Darwin Falls Wilderness

Dead Mountains Wilderness

Death Valley Wilderness

Desolation Wilderness

Dick Smith Wilderness

Dinkey Lakes Wilderness

Domeland Wilderness

El Paso Mountains Wilderness

Elkhorn Ridge Wilderness

Emigrant Wilderness

Farallon Wilderness \*

Fish Creek Mountains Wilderness

Funeral Mountains Wilderness

Garcia Wilderness

Golden Trout Wilderness

Golden Valley Wilderness

Granite Chief Wilderness

Granite Mountain Wilderness

Grass Valley Wilderness

Great Falls Basin Wilderness

Hain Wilderness

Hauser Wilderness

Havasu Wilderness

Hollow Hills Wilderness

Hoover Wilderness

Ibex Wilderness

Imperial Refuge Wilderness

Indian Pass Wilderness

Inyo Mountains Wilderness

Ishi Wilderness

Jacumba Wilderness \*

Jennie Lakes Wilderness

John Krebs Wilderness

John Muir Wilderness

Joshua Tree Wilderness

Kaiser Wilderness

Kelso Dunes Wilderness

Kiavah Wilderness

King Range Wilderness \*

Kingston Range Wilderness

Lassen Volcanic Wilderness

Lava Beds Wilderness

Little Chuckwalla Mountains Wilderness

Little Picacho Wilderness

Machesna Mountain Wilderness

Magic Mountain Wilderness

Malpais Mesa Wilderness

Manly Peak Wilderness

Marble Mountain Wilderness

Matilija Wilderness

Mecca Hills Wilderness

Mesquite Wilderness

Milpitas Wash Wilderness

Mojave Wilderness

Mokelumne Wilderness

Monarch Wilderness

Mount Lassic Wilderness

Mt. Shasta Wilderness

Newberry Mountains Wilderness

Nopah Range Wilderness

North Algodones Dunes Wilderness

North Fork Wilderness

North Mesquite Mountains Wilderness

Old Woman Mountains Wilderness

Orocopia Mountains Wilderness

Otay Mountain Wilderness \*

Owens Peak Wilderness

Owens River Headwaters Wilderness

Pahrump Valley Wilderness

Palen/McCoy Wilderness

Palo Verde Mountains Wilderness

Phillip Burton Wilderness \*

Picacho Peak Wilderness

Pine Creek Wilderness

Pinto Mountains Wilderness

Piper Mountain Wilderness

Piute Mountains Wilderness

Pleasant View Ridge Wilderness

Red Buttes Wilderness

Resting Spring Range Wilderness

Rice Valley Wilderness

Riverside Mountains Wilderness

Rocks and Islands Wilderness \*

Rodman Mountains Wilderness

Russian Wilderness

Sacatar Trail Wilderness

Saddle Peak Hills Wilderness



San Gabriel Wilderness

San Gorgonio Wilderness

San Jacinto Wilderness

San Mateo Canyon Wilderness

San Rafael Wilderness

Sanhedrin Wilderness

Santa Lucia Wilderness

Santa Rosa Wilderness

Sawtooth Mountains Wilderness

Sequoia-Kings Canyon Wilderness

Sespe Wilderness

Sheep Mountain Wilderness

Sheephole Valley Wilderness

Silver Peak Wilderness

Siskiyou Wilderness

Snow Mountain Wilderness

Soda Mountains Wilderness

South Fork Eel River Wilderness

South Fork San Jacinto Wilderness

South Nopah Range Wilderness

South Sierra Wilderness

South Warner Wilderness

Stateline Wilderness

Stepladder Mountains Wilderness

Surprise Canyon Wilderness

Sylvania Mountains Wilderness

Thousand Lakes Wilderness

Trilobite Wilderness

Trinity Alps Wilderness

Turtle Mountains Wilderness

Ventana Wilderness

Whipple Mountains Wilderness

White Mountains Wilderness

Yolla Bolly-Middle Eel Wilderness

Yosemite Wilderness

Yuki Wilderness

## **Colorado**

Black Canyon of the Gunnison Wilderness

Black Ridge Canyons Wilderness

Buffalo Peaks Wilderness

Byers Peak Wilderness

Cache La Poudre Wilderness

Collegiate Peaks Wilderness

Comanche Peak Wilderness

Dominguez Canyon Wilderness

Eagles Nest Wilderness

Flat Tops Wilderness

Fossil Ridge Wilderness

Great Sand Dunes Wilderness

Greenhorn Mountain Wilderness

Gunnison Gorge Wilderness

Hermosa Creek Wilderness

Holy Cross Wilderness

Hunter-Fryingpan Wilderness

Indian Peaks Wilderness

James Peak Wilderness

La Garita Wilderness

Lizard Head Wilderness

Lost Creek Wilderness

Maroon Bells-Snowmass Wilderness

Mesa Verde Wilderness

Mount Evans Wilderness

Mount Massive Wilderness

Mount Sneffels Wilderness

Mount Zirkel Wilderness

Neota Wilderness

Never Summer Wilderness

Platte River Wilderness

Powderhorn Wilderness

Ptarmigan Peak Wilderness

Raggeds Wilderness

Rawah Wilderness

Rocky Mountain National Park Wilderness

Sangre de Cristo Wilderness

Sarvis Creek Wilderness

South San Juan Wilderness

Spanish Peaks Wilderness

Uncompahgre Wilderness

Vasquez Peak Wilderness

Weminuche Wilderness

West Elk Wilderness

## **Florida**

Alexander Springs Wilderness \*

Big Gum Swamp Wilderness

Billies Bay Wilderness

Bradwell Bay Wilderness

Cedar Keys Wilderness \*

Chassahowitzka Wilderness \*

Florida Keys Wilderness \*

Island Bay Wilderness \*

J. N. "Ding" Darling Wilderness \*

Juniper Prairie Wilderness

Lake Woodruff Wilderness \*

Little Lake George Wilderness \*

Marjory Stoneman Douglas Wilderness \*

Mud Swamp/New River Wilderness

Passage Key Wilderness \*

Pelican Island Wilderness \*

St. Marks Wilderness \*

## **Georgia**

Big Frog Wilderness

Blackbeard Island Wilderness \*

Blood Mountain Wilderness

Brasstown Wilderness

Cohutta Wilderness

Cumberland Island Wilderness \*

Ellicott Rock Wilderness

Mark Trail Wilderness

Okefenokee Wilderness

Raven Cliffs Wilderness

Rich Mountain Wilderness

Southern Nantahala Wilderness

Tray Mountain Wilderness

Wolf Island Wilderness \*

## **Hawaii**

Haleakalā Wilderness

Hawai`i Volcanoes Wilderness \*

## **Idaho**

Big Jacks Creek Wilderness

Bruneau-Jarbidge Rivers Wilderness

Cecil D. Andrus-White Clouds Wilderness

Craters of the Moon National Wilderness Area

Frank Church-River of No Return Wilderness

Gospel-Hump Wilderness

Hells Canyon Wilderness

Hemingway-Boulders Wilderness

Jim McClure-Jerry Peak Wilderness

Little Jacks Creek Wilderness

North Fork Owyhee Wilderness

Owyhee River Wilderness

Pole Creek Wilderness

Sawtooth Wilderness

Selway-Bitterroot Wilderness

## **Illinois**

Bald Knob Wilderness

Bay Creek Wilderness

Burden Falls Wilderness

Clear Springs Wilderness

Crab Orchard Wilderness

Garden of the Gods Wilderness

Lusk Creek Wilderness

Panther Den Wilderness

## **Indiana**

Charles C. Deam Wilderness

## **Kentucky**

Beaver Creek Wilderness

Clifty Wilderness

## **Louisiana**

Breton Wilderness \*

Kisatchie Hills Wilderness

Lacassine Wilderness

## **Maine**

Caribou-Speckled Mountain Wilderness

Moosehorn (Baring Unit) Wilderness

Moosehorn Wilderness \*

## **Massachusetts**

Monomoy Wilderness \*

## **Michigan**

Beaver Basin Wilderness \*

Big Island Lake Wilderness

Delirium Wilderness

Horseshoe Bay Wilderness \*

Huron Islands Wilderness \*

Isle Royale Wilderness \*

Mackinac Wilderness

McCormick Wilderness

Michigan Islands Wilderness \*

Nordhouse Dunes Wilderness \*

Rock River Canyon Wilderness

Round Island Wilderness \*

Seney Wilderness

Sleeping Bear Dunes Wilderness \*

Sturgeon River Gorge Wilderness

Sylvania Wilderness

## **Minnesota**

Agassiz Wilderness

Boundary Waters Canoe Area Wilderness \*

Tamarac Wilderness

## **Mississippi**

Black Creek Wilderness



Gulf Islands Wilderness \*

Leaf Wilderness

## **Missouri**

Bell Mountain Wilderness

Devils Backbone Wilderness

Hercules-Glades Wilderness

Irish Wilderness

Mingo Wilderness

Paddy Creek Wilderness

Piney Creek Wilderness

Rockpile Mountain Wilderness

## **Montana**

Absaroka-Beartooth Wilderness

Anaconda Pintler Wilderness

Bob Marshall Wilderness

Cabinet Mountains Wilderness

Gates of the Mountains Wilderness

Great Bear Wilderness

Lee Metcalf Wilderness

Medicine Lake Wilderness

Mission Mountains Wilderness

Rattlesnake Wilderness

Red Rock Lakes Wilderness

Scapegoat Wilderness

Selway-Bitterroot Wilderness

UL Bend Wilderness

Welcome Creek Wilderness

## **Nebraska**

Fort Niobrara Wilderness

Soldier Creek Wilderness

## **Nevada**

Alta Toquima Wilderness

Arc Dome Wilderness

Arrow Canyon Wilderness

Bald Mountain Wilderness

Becky Peak Wilderness

Big Rocks Wilderness

Black Canyon Wilderness

Black Rock Desert Wilderness

Boundary Peak Wilderness

Bridge Canyon Wilderness

Bristlecone Wilderness

Cain Mountain Wilderness

Calico Mountains Wilderness

Clan Alpine Mountains Wilderness

Clover Mountains Wilderness

Currant Mountain Wilderness

Death Valley Wilderness

Delamar Mountains Wilderness

Desatoya Mountains Wilderness

East Fork High Rock Canyon Wilderness

East Humboldts Wilderness

Eldorado Wilderness

Far South Egans Wilderness

Fortification Range Wilderness

Goshute Canyon Wilderness

Government Peak Wilderness

Grant Range Wilderness

High Rock Canyon Wilderness

High Rock Lake Wilderness

High Schells Wilderness

Highland Ridge Wilderness

Ireteba Peaks Wilderness

Jarbidge Wilderness

Jimbilnan Wilderness

Jumbo Springs Wilderness

La Madre Mountain Wilderness

Lime Canyon Wilderness

Little High Rock Canyon Wilderness

Meadow Valley Range Wilderness

Mormon Mountains Wilderness

Mount Grafton Wilderness

Mt. Charleston Wilderness

Mt. Irish Wilderness

Mt. Moriah Wilderness

Mt. Rose Wilderness

Muddy Mountains Wilderness

Nellis Wash Wilderness

North Black Rock Range Wilderness

North Jackson Mountains Wilderness

North McCullough Wilderness

Pahute Peak Wilderness

Parsnip Peak Wilderness

Pine Forest Range Wilderness

Pinto Valley Wilderness

Quinn Canyon Wilderness

Rainbow Mountain Wilderness

Red Mountain Wilderness

Ruby Mountains Wilderness

Santa Rosa-Paradise Peak Wilderness

Shellback Wilderness

South Egan Range Wilderness

South Jackson Mountains Wilderness

South McCullough Wilderness

South Pahroc Range Wilderness

Spirit Mountain Wilderness

Table Mountain Wilderness

Tunnel Spring Wilderness

Wee Thump Joshua Tree Wilderness

Weepah Spring Wilderness

White Pine Range Wilderness

White Rock Range Wilderness

Worthington Mountains Wilderness

Wovoka Wilderness

## **New Hampshire**

Great Gulf Wilderness

Pemigewasset Wilderness

Presidential Range-Dry River Wilderness

Sandwich Range Wilderness

Wild River Wilderness

## **New Jersey**

Brigantine Wilderness \*

Great Swamp National Wildlife Refuge Wilderness

## **New Mexico**

Aden Lava Flow Wilderness

Ah-shi-sle-pah Wilderness

Aldo Leopold Wilderness

Apache Kid Wilderness

Bandelier Wilderness

Bisti/De-Na-Zin Wilderness

Blue Range Wilderness

Bosque del Apache Wilderness

Broad Canyon Wilderness

Capitan Mountains Wilderness

Carlsbad Caverns Wilderness

Cebolla Wilderness

Cerro del Yuta Wilderness

Chama River Canyon Wilderness

Cinder Cone Wilderness

Columbine-Hondo Wilderness

Cruces Basin Wilderness

Dome Wilderness

East Potrillo Mountains Wilderness

Gila Wilderness

Latir Peak Wilderness

Manzano Mountain Wilderness

Mount Riley Wilderness

Ojito Wilderness

Organ Mountains Wilderness

Pecos Wilderness

Potrillo Mountains Wilderness

Rio San Antonio Wilderness

Robledo Mountains Wilderness

Sabinoso Wilderness

Salt Creek Wilderness

San Pedro Parks Wilderness

Sandia Mountain Wilderness

Sierra de las Uvas Wilderness

West Malpais Wilderness

Wheeler Peak Wilderness

White Mountain Wilderness

Whitethorn Wilderness

Withington Wilderness

## **New York**

Otis Pike Fire Island High Dune Wilderness \*

## **North Carolina**

Birkhead Mountains Wilderness

Catfish Lake South Wilderness

Ellicott Rock Wilderness

Joyce Kilmer-Slickrock Wilderness

Linville Gorge Wilderness

Middle Prong Wilderness

Pocosin Wilderness

Pond Pine Wilderness

Sheep Ridge Wilderness

Shining Rock Wilderness

Southern Nantahala Wilderness

Swanquarter Wilderness \*

## **North Dakota**

Chase Lake Wilderness

Lostwood Wilderness

Theodore Roosevelt Wilderness

## **Ohio**

West Sister Island Wilderness \*

## **Oklahoma**

Black Fork Mountain Wilderness

Upper Kiamichi River Wilderness

Wichita Mountains Wilderness

## **Oregon**

Badger Creek Wilderness

Black Canyon Wilderness

Boulder Creek Wilderness



Bridge Creek Wilderness

Bull of the Woods Wilderness

Clackamas Wilderness

Copper Salmon Wilderness

Cummins Creek Wilderness

Devil's Staircase Wilderness \*

Diamond Peak Wilderness

Drift Creek Wilderness

Eagle Cap Wilderness

Gearhart Mountain Wilderness

Grassy Knob Wilderness

Hells Canyon Wilderness

Kalmiopsis Wilderness

Lower White River Wilderness

Mark O. Hatfield Wilderness \*

Menagerie Wilderness

Middle Santiam Wilderness

Mill Creek Wilderness

Monument Rock Wilderness

Mount Hood Wilderness

Mount Jefferson Wilderness

Mount Thielsen Wilderness

Mount Washington Wilderness

Mountain Lakes Wilderness

North Fork John Day Wilderness

North Fork Umatilla Wilderness

Opal Creek Wilderness

Oregon Badlands Wilderness

Oregon Islands Wilderness \*

Red Buttes Wilderness

Roaring River Wilderness

Rock Creek Wilderness

Rogue-Umpqua Divide Wilderness

Salmon-Huckleberry Wilderness

Sky Lakes Wilderness

Soda Mountain Wilderness

Spring Basin Wilderness

Steens Mountain Wilderness

Strawberry Mountain Wilderness

Table Rock Wilderness

Three Arch Rocks Wilderness \*

Three Sisters Wilderness

Waldo Lake Wilderness

Wenaha-Tucannon Wilderness

Wild Rogue Wilderness

## **Pennsylvania**

Allegheny Islands Wilderness

Hickory Creek Wilderness

## **Puerto Rico**

El Toro Wilderness

## **South Carolina**

Cape Romain Wilderness \*

Congaree National Park Wilderness \*

Ellicott Rock Wilderness

Hell Hole Bay Wilderness

Little Wambaw Swamp Wilderness

Wambaw Creek Wilderness

Wambaw Swamp Wilderness

## **South Dakota**

Badlands Wilderness

Black Elk Wilderness

## **Tennessee**

Bald River Gorge Wilderness

Big Frog Wilderness

Big Laurel Branch Wilderness

Citico Creek Wilderness

Cohutta Wilderness

Gee Creek Wilderness

Joyce Kilmer-Slickrock Wilderness

Little Frog Mountain Wilderness

Pond Mountain Wilderness

Sampson Mountain Wilderness

Unaka Mountain Wilderness

Upper Bald River Wilderness

## **Texas**

Big Slough Wilderness

Guadalupe Mountains Wilderness

Indian Mounds Wilderness

Little Lake Creek Wilderness

Turkey Hill Wilderness

Upland Island Wilderness

## **Utah**

Ashdown Gorge Wilderness

Beartrap Canyon Wilderness

Beaver Dam Mountains Wilderness

Big Wild Horse Mesa Wilderness

Black Ridge Canyons Wilderness

Blackridge Wilderness

Box-Death Hollow Wilderness

Canaan Mountain Wilderness

Cedar Mountain Wilderness Area

Cold Wash Wilderness

Cottonwood Canyon Wilderness

Cottonwood Forest Wilderness

Cougar Canyon Wilderness

Dark Canyon Wilderness

Deep Creek North Wilderness

Deep Creek Wilderness

Deseret Peak Wilderness

Desolation Canyon Wilderness

Devil's Canyon Wilderness

Doc's Pass Wilderness

Eagle Canyon Wilderness

Goose Creek Wilderness

High Uintas Wilderness

Horse Valley Wilderness

Labyrinth Canyon Wilderness

LaVerkin Creek Wilderness

Little Ocean Draw Wilderness

Little Wild Horse Canyon Wilderness

Lone Peak Wilderness

Lower Last Chance Wilderness

Mexican Mountain Wilderness

Middle Wild Horse Mesa Wilderness

Mount Naomi Wilderness

Mount Nebo Wilderness

Mount Olympus Wilderness

Mount Timpanogos Wilderness

Muddy Creek Wilderness

Nelson Mountain Wilderness

Paria Canyon-Vermilion Cliffs Wilderness

Pine Valley Mountain Wilderness

Red's Canyon Wilderness

Red Butte Wilderness

Red Mountain Wilderness

San Rafael Reef Wilderness

Sid's Mountain Wilderness

Slaughter Creek Wilderness

Taylor Creek Wilderness

Turtle Canyon Wilderness

Twin Peaks Wilderness

Wellsville Mountain Wilderness

Zion Wilderness

## **Vermont**

Big Branch Wilderness

Breadloaf Wilderness

Bristol Cliffs Wilderness

George D. Aiken Wilderness

Glastenbury Wilderness

Joseph Battell Wilderness

Lye Brook Wilderness

Peru Peak Wilderness

## **Virginia**

Barbours Creek Wilderness

Beartown Wilderness

Brush Mountain East Wilderness

Brush Mountain Wilderness

Garden Mountain Wilderness

Hunting Camp Creek Wilderness

James River Face Wilderness

Kimberling Creek Wilderness

Lewis Fork Wilderness

Little Dry Run Wilderness

Little Wilson Creek Wilderness

Mountain Lake Wilderness

Peters Mountain Wilderness

Priest Wilderness

Raccoon Branch Wilderness

Ramseys Draft Wilderness

Rich Hole Wilderness

Rough Mountain Wilderness

Saint Mary's Wilderness

Shawvers Run Wilderness

Shenandoah Wilderness

Stone Mountain Wilderness

Three Ridges Wilderness

Thunder Ridge Wilderness

## **Washington**

Alpine Lakes Wilderness

Boulder River Wilderness

Buckhorn Wilderness

Clearwater Wilderness

Colonel Bob Wilderness

Daniel J. Evans Wilderness \*

Glacier Peak Wilderness

Glacier View Wilderness

Goat Rocks Wilderness

Henry M. Jackson Wilderness

Indian Heaven Wilderness

Juniper Dunes Wilderness

Lake Chelan-Sawtooth Wilderness

Mount Adams Wilderness



Mount Baker Wilderness \*

Mount Rainier Wilderness

Mount Skokomish Wilderness

Noisy-Diobsud Wilderness

Norse Peak Wilderness

Pasayten Wilderness \*

Salmo-Priest Wilderness \*

San Juan Wilderness \*

Stephen Mather Wilderness \*

Tatoosh Wilderness

The Brothers Wilderness

Trapper Creek Wilderness

Washington Islands Wilderness \*

Wenaha-Tucannon Wilderness

Wild Sky Wilderness

William O. Douglas Wilderness

Wonder Mountain Wilderness

## **West Virginia**

Big Draft Wilderness

Cranberry Wilderness

Dolly Sods Wilderness

Laurel Fork North Wilderness

Laurel Fork South Wilderness

Mountain Lake Wilderness

Otter Creek Wilderness

Roaring Plains West Wilderness

Spice Run Wilderness

## **Wisconsin**

Blackjack Springs Wilderness

Gaylord Nelson Wilderness \*

Headwaters Wilderness

Porcupine Lake Wilderness

Rainbow Lake Wilderness

Whisker Lake Wilderness

Wisconsin Islands Wilderness \*

## **Wyoming**

Absaroka-Beartooth Wilderness

Bridger Wilderness

Cloud Peak Wilderness

Encampment River Wilderness

Fitzpatrick Wilderness

Gros Ventre Wilderness

Huston Park Wilderness

Jedediah Smith Wilderness

North Absaroka Wilderness

Platte River Wilderness

Popo Agie Wilderness

Savage Run Wilderness

Teton Wilderness

Washakie Wilderness

Winegar Hole Wilderness

## **A. 6 National Wild and Scenic River**

### **Alabama**

Sipsey Fork of the West Fork River

### **Alaska**

Alagnak River

Alatna River

Andreafsky River \*

Aniakchak River

Beaver Creek

Birch Creek

Charley River \*

Chilikadrotna River

Delta River

Fortymile River \*

Gulkana River

Ivishak River

John River

Kobuk River

Mulchatna River

Noatak River

North Fork Koyukuk River \*

Nowitna River

Salmon River \*

Selawik River

Sheenjek River

Tinayguk River

Tlikakila River \*

Unalakleet River

Wind River

## **Arizona**

Fossil Creek

Verde River

## **Arkansas**

Big Piney Creek

Buffalo River

Cossatot River

Hurricane Creek

Little Missouri River

Mulberry River

North Sylamore Creek

Richland Creek

## **California**

Amargosa River

American (Lower) River \*

Bautista Creek

Big Sur River

Black Butte River

Cottonwood Creek

Deep Creek

Eel River \*

Feather River

Fuller Mill Creek

Kern River

Kings River

Klamath River \*

Merced River

North Fork American River \*

North Fork San Jacinto River

Owens River Headwaters

Palm Canyon Creek

Piru Creek

Sespe Creek

Sisquoc River

Smith River \*

Surprise Canyon Creek

Trinity River

Tuolumne River

Whitewater River

## **Colorado**

Cache la Poudre River

## **Connecticut**

Eightmile River \*

Farmington (Lower) River and Salmon Brook \*

Housatonic River

West Branch Farmington River

Wood-Pawcatuck Rivers Watershed \*

## **Delaware**

White Clay Creek \*

## **Florida**

Loxahatchee River

Wekiva River \*

## **Georgia**

Chattooga River

## **Idaho**

Battle Creek

Big Jacks Creek

Bruneau River

Cottonwood Creek

Deep Creek

Dickshooter Creek

Duncan Creek

Jarbidge River

Little Jacks Creek

Middle Fork Clearwater River

Middle Fork Salmon River

North Fork Owyhee River

Owyhee River

Rapid River

Red Canyon

Saint Joe River \*

Salmon River

Sheep Creek

Snake River \*

South Fork Owyhee River

West Fork Bruneau River

Wickahoney Creek

## **Illinois**

Middle Fork Vermilion River

## **Kentucky**

Red River

## **Louisiana**

Saline Bayou

## **Maine**

Allagash River

York River \*

## **Massachusetts**

Nashua, Squannacook and Nissitissit Rivers

Sudbury, Assabet and Concord Rivers

Taunton River \*

Westfield River

## **Michigan**

Au Sable River

Bear Creek

Black River \*

Carp River \*

East Branch Tahquamenon River

Indian River

Manistee River

Ontonagon River



Paint River

Pere Marquette River

Pine River

Presque Isle River

Sturgeon River (Hiawatha National Forest) \*

Sturgeon River (Ottawa National Forest) \*

Whitefish River \*

Yellow Dog River

## **Minnesota**

St. Croix River \*

## **Mississippi**

Black Creek

## **Missouri**

Eleven Point River

## **Montana**

East Rosebud Creek

Flathead River

Missouri River \*

## **Nebraska**

Missouri River \*

Niobrara River

## **New Hampshire**

Lamprey River \*

Nashua, Squannacook and Nissitissit Rivers

Wildcat River

## **New Jersey**

Delaware (Lower) River \*

Delaware (Middle) River

Great Egg Harbor River \*

Maurice River \*

Musconetcong River

## **New Mexico**

East Fork Jemez River

Pecos River

Rio Chama

Rio Grande

## **New York**

Delaware (Upper) River

## **North Carolina**

Chattooga River

Horsepasture River

Lumber River

New River

Wilson Creek

## **Ohio**

Big and Little Darby Creeks

Little Beaver Creek \*

Little Miami River \*

## **Oregon**

Big Marsh Creek

Chetco River

Clackamas River

Collawash River

Crescent Creek

Crooked River

Deschutes River

Donner und Blitzen River

Eagle Creek (Mt. Hood National Forest)

Eagle Creek (Wallowa-Whitman National Forest)

East Fork Hood River

Elk Creek

Elk River

Elkhorn Creek

Fifteenmile Creek

Fish Creek

Franklin Creek \*

Grande Ronde River

Illinois River \*

Imnaha River

Jenny Creek

John Day River

Joseph Creek

Klamath River

Little Deschutes River

Lobster Creek

Lostine River

Malheur River

McKenzie River

Metolius River

Middle Fork Hood River

Minam River

Molalla River

Nestucca River

North Fork Crooked River

North Fork John Day River

North Fork Malheur River

North Fork Middle Fork Willamette River

North Fork Owyhee River

North Fork Silver Creek

North Fork Smith River

North Fork Sprague River

North Powder River

North Umpqua River

Owyhee River

Powder River

Quartzville Creek

River Styx

Roaring River

Rogue (Upper) River

Rogue River \*

Salmon River

Sandy River

Snake River \*

South Fork Clackamas River

South Fork John Day River

South Fork Roaring River

Spring Creek

Sycan River

Walker Creek

Wallowa River

Wasson Creek

Wenaha River

West Little Owyhee River

White River

Whychus Creek

Wildhorse and Kiger Creeks

Zig Zag River

## **Pennsylvania**

Allegheny River \*

Clarion River

Delaware (Lower) River \*

Delaware (Middle) River

Delaware (Upper) River

White Clay Creek

## **Puerto Rico**

Rio de la Mina

Rio Icacos

Rio Mameyes

## **Rhode Island**

Wood-Pawcatuck Rivers Watershed \*

## **South Carolina**

Chattooga River

## **South Dakota**

Missouri River \*

## **Tennessee**

Obed River

## **Texas**

Rio Grande

## **Utah**

Green River

Virgin River

## **Vermont**

Missisquoi and Trout Rivers

## **Washington**

Illabot Creek

Klickitat River \*

Middle Fork Snoqualmie River

Pratt River

Skagit River \*

White Salmon River

## **West Virginia**

Bluestone River

## **Wisconsin**

St. Croix River \*

Wolf River

## **Wyoming**

Clarks Fork River

Snake River Headwaters