

12. SOLID WASTE MANAGEMENT FACILITIES. The ISWMP should include descriptions of any solid waste management facilities used by the installation. Provide the types of information listed below.

a. On-Post Solid Waste Landfills (Sanitary Landfills).

DISPOSAL FACILITIES

After planning for optimal source reduction and recycling on the installation, the ISWMP must address disposal of what remains of the waste stream. The installation's options are often determined by the existing facilities available for their use. These may be regional, local, or on-post facilities, and may include landfills, incinerators, or waste-to-energy plants.

(1) Landfill Description. Describe the landfill to include the size in acres, slope of the site, and soil and ground-water conditions.

(2) Landfill Location. Include a map showing the location of the landfill. Reference the grid coordinates, road intersections, or other identifying information.

(3) Permit Status. Describe type of Landfill Permit, permit number, administering agency, expiration date.

(4) Current Disposal Rate and Capacity. Indicate number of tons received each month, number of cells or trenches (full and remaining), and projected life expectancy. Attach a copy of landfill permit and operational standards.

(5) 10- and 20-Year Disposal Rates. Project future disposal rates using both the present disposal rate and future disposal rate (allowing for increased recycling and waste stream reduction). Compare the difference in the landfill life expectancy based on current versus proposed lower disposal rates.

(6) Types of Wastes Accepted/Excluded. List the waste types that are accepted and excluded from the landfill. For example, hazardous wastes and bulk liquid wastes (greater than household quantities) must be excluded from the landfill except where permit specifications allow them.

(7) Landfill Operation and Environmental Controls. As of 9 October 1993, new and existing solid waste landfills must meet the operating criteria specified in 40 CFR 258, Subpart C. Describe the landfill operation by indicating how the installation complies with the following requirements. Include a copy of the landfill SOP as an appendix.

- (a) Excluding the Receipt of Hazardous Wastes. Describe the procedures for random inspections, recordkeeping, and training of landfill personnel to recognize potential hazardous wastes.
- (b) Cover Material. Describe the daily cover procedure. The current standard is 6 inches of earthen cover at the end of each working day.
- (c) Disease Vector Control. Indicate the methods for controlling insects and animals at the landfill.
- (d) Explosive Gases Control. Indicate if there is any gas venting or monitoring systems in place.
- (e) Air Release Control. Indicate if any open burning is conducted and describe the permitting procedure associated with this activity. Open burning at solid waste landfills is severely restricted. Federal regulations (40 CFR 258.24(b)) allow burning of land clearing debris. State restrictions must be followed where applicable.
- (f) Access Control. Indicate how the installation controls public access to the site (fencing, manned guard house, etc.). Restricted access is required to prevent illegal dumping and other unauthorized activities.
- (g) Run-on/Run-off Control. Describe the run-on/run-off control structures at the landfill. A system must be in place to restrict water from entering the active portion of the landfill and control water running off the active portion of the landfill.
- (h) Recordkeeping Requirements. Describe the recordkeeping that is performed relative to management of the landfill. Requirements specified in 40 CFR 258.29 must be met.
- (i) Utilities. Indicate whether the site is serviced with water, electric, rest rooms, etc.
- (j) Ground-Water Monitoring and Corrective Action. Describe the ground-water sampling and analysis program, statistical analysis of results, and the detection/assessment monitoring plan as required by 40 CFR 258.
- (8) Closure/Post Closure. Indicate whether the installation has a landfill closure and post closure care plan that addresses final cover, operation of leachate collection system, and ground-water/methane monitoring. Include a copy of the plan as an appendix if it exists.
- (9) New Landfills and Lateral Expansions. If new landfills or lateral expansions are approved, briefly describe the plans and indicate conformance with the design criteria in the Federal regulations (40 CFR 258, Subpart D). *(NOTE: AR 420-49 states that new landfills or*

landfill expansions on Army installations will not be programmed where municipal or regional systems are available until all alternatives are explored.)

(10) Percentage of Waste Stream. Determine the percentage of the installation's waste stream currently being disposed of in the on-post sanitary landfill.

b. Municipal/County/Regional Landfills. For all municipal/county/regional landfills, provide the following information (available from the state or county solid waste agency, or the landfill operators). This information should be provided in the ISWMP regardless of whether the off-post landfills are currently used by the installation. Refer to Section 12a for further explanations of the following subheadings.

- (1) Landfill Description.
- (2) Landfill Location.
- (3) Permit Status.
- (4) Disposal Rate, Capacity, and Life Expectancy.
- (5) Types of Wastes Accepted/Excluded.
- (6) Landfill Operation.
- (7) Environmental Controls.
- (8) Percentage of Waste Stream.

c. C&D Debris Landfills. Although requirements for construction debris landfills vary with each state, Federal regulations (40 CFR 257) contain general requirements. The following elements should be addressed in the ISWMP for on- or off-post construction debris landfills. Refer to Section 12a for further explanations of the following subheadings.

- (1) Landfill Description.
- (2) Landfill Location.
- (3) Permit Status.
- (4) Current Disposal Rate and Capacity.
- (5) 10- and 20-year Disposal Rates and Capacities.

- (6) Types of Wastes Accepted/Excluded.
- (7) Landfill Operation.
- (8) Environmental Controls.
- (9) Percentage of Waste Stream.

d. Incinerators/Waste-To-Energy Plants. This category includes incinerators and waste conversion plants, and falls under the EPA definition of volume reduction processes. The DOD considers these to be disposal facilities, and wastes processed are not considered diverted from the waste stream, nor do the quantities count towards the MoM. However, some states provide a fixed-percentage credit towards reduction goals when waste conversion is used in lieu of landfill disposal. Provide the following information (available from the plant or the state/county solid waste agency). Refer to Section 12a for further explanations of the following subheadings.

- (1) Facility Description.
- (2) Facility Location.
- (3) Permit Status
- (4) Processing Rate and Capacity.
- (5) Waste Types Accepted/Excluded.
- (6) Facility Operation.
- (7) Environmental Controls.
- (8) Percentage of Waste Stream.

e. Transfer Stations. Transfer stations are centralized facilities for unloading wastes from several small collection vehicles and densely loading into larger vehicles for hauling to more distant processing, volume reduction, or disposal facilities. If a transfer station is used by the installation (either on-post or off-post), provide the following information in the ISWMP. Refer to Section 12a for further explanations of the subheadings.

- (1) Facility Description.
- (2) Facility Location.

- (3) Permit Status.
- (4) Existing Storage Capacity.
- (5) Projected Storage Capacity.
- (6) Facility Operation.
- (7) Environmental Controls (i.e., litter, runoff).
- (8) Segregation and Storage of Recyclables.
- (9) Percentage of Waste Stream.

f. Recycling Facilities. On-post recycling facilities are described in Section 9. In this section, provide information about off-post recycling facilities used by the installation to include:

- (1) Facility Description.
- (2) Facility Location.
- (3) Permit Status.
- (4) Processing Rate and Capacity.
- (5) Recyclable Materials Accepted/ Excluded.
- (6) Facility Operation.
- (7) Percentage of Waste Stream.