

## **PERMIT MODULE II CONDITIONS OF OPERATION**

### **II.A. HOURS OF OPERATION**

II.A.1. The normal operating hours are:

- Monday through Friday: 6:00 a.m. to 6:00 p.m.
- Saturday: 6:00 am to 3:00 pm.
- Holidays: The facility and the convenience center may be closed.

Operating hours vary for the citizen convenience center, the scrap metal recycling stockpile, yard waste drop-off and mulching area, and the landfill office. Operating hours may be altered by the facility upon notification to the Department.

II.A.2. Emergency conditions or unusual circumstances that require accepting waste outside of the normal operating hours shall be reported orally to the DEQ Northern Regional Office at 703-583-3800 within 24 hours followed by a formal written submission within 5 days.

### **II.B. WASTES ACCEPTED**

The King George County Sanitary Landfill may receive the following wastes, as defined by 9VAC20-81-10 of the Virginia Solid Waste Management Regulations (VSWMR) or described below:

II.B.1. Agricultural waste.

II.B.2. Animal carcasses. Small carcasses, such as dogs and cats, may be handled with incoming waste. Large animals and small volumes of animal carcasses, less than 20 cubic yards, may be received by the facility, but must be placed in a separate area within the disposal unit and provided with a cover of compacted soil or other suitable material. Disposal of large volumes of animal carcasses must be approved by the Department prior to disposal.

II.B.3. Asbestos, friable and/or non-friable. Asbestos containing waste materials shall be disposed according to the requirements of 40 CFR 61, Subpart M, as amended, and incorporated under 9VAC20-81-620.

II.B.4. Ashes and air pollution control residues that are not classified as hazardous waste. Incinerator and air pollution and control residues should be incorporated into the working face and covered at such intervals as necessary to prevent them from becoming airborne.

- II.B.5. Commercial waste.
- II.B.6. Construction, Demolition and Debris (CDD) wastes.
- II.B.7. Contaminated Soils, that are characterized as non-hazardous and meet the waste disposal criteria. Prior to disposal, the contaminated soils must be characterized by a NELAP certified laboratory and subsequently approved by the Department.
- II.B.8. Fossil Fuel Combustion Products.
- II.B.9. Industrial Waste.
- II.B.10. Institutional Waste
- II.B.11. Municipal Solid Wastes (MSW) including garbage, household waste, refuse, residential waste, rubbish and trash.
- II.B.12. MSW incinerator ashes.
- II.B.13. Non-regulated hazardous wastes, and treated wastes rendered nonhazardous, upon approval from the Department.
- II.B.14. Scrap metal.
- II.B.15. Sludge of industrial or Publicly Owned Treatment Works (POTW) origin. Municipal, commercial, or industrial wastewater treatment plant, water supply treatment plant, and air pollution control facility sludge that have been dewatered.  
  
Sludge shall be disposed of by mixing with other solid wastes, placed, and compacted at the working face in a manner to prevent localized pockets of sludge or conditions which might result in future instability of the waste mass.
- II.B.16. Vegetative and yard waste, including stumps that are less than 12 inches in diameter, in addition to all materials listed as a Category I feedstock as defined by 9VAC20-81-310.A.3.a.
- II.B.17. Waste Tires. Tires shall be stored at the waste tire storage area in an appropriate manner in accordance with 9VAC20-81-640. Tires may also be split, cut, or shredded and then beneficially used or dispersed in the workface with other solid wastes for disposal.
- II.B.18. White goods, provided that all appliances are free of Chlorofluorocarbons (CFC) Hydrochlorofluorocarbons, or Polychlorinated Biphenyls (PCB) prior to placement on the working face. White goods may be accumulated at the facility, in accordance with 9VAC20-81-650.

## II.C. UNAUTHORIZED WASTE

The King George Landfill may not receive any unauthorized wastes identified in 9VAC20-81-140.B.4., or any of the following: waste oil that has not been adequately absorbed through site cleanup; radioactive wastes; lead acid batteries; pressurized tanks or pressurized containers; automobile gas tanks; friable and some non-friable asbestos-containing waste materials as defined by 9VAC20-81-620; regulated medical waste; explosives or other dangerous materials; and junked automobiles.

## II.D. PERMIT LIMITS

The facility has a disposal limit of 10,000 tons per day, as specified in the Part A approval letter.

## II.E. COMPACTION AND COVER

II.E.1. Daily cover consisting of six inches of compacted soil or other approved material shall be placed upon and maintained on all exposed solid waste prior to the end of each operating day, or at more frequent intervals if necessary, to control disease vectors, fires, odors, blowing litter, and scavenging. From November 15<sup>th</sup> through February 15<sup>th</sup> each year, the facility shall restrict the usage of approved Alternate Daily Cover (ADC) materials listed below to only those containing at least 50% of soil in the mixture, excluding the mixture of crushed glass and soil. Approved ADC materials include:

- II.E.1.a. Geosynthetic membranes and tarpaulins;
- II.E.1.b. Spray applied cover material. The cover material shall be applied to waste from at least two directions to prevent shading effect and to ensure that all waste is covered.
- II.E.1.c. Shredded Tires, mixed with soil in 1:1 ratio by volume;
- II.E.1.d. Coal combustion residuals, mixed with soil in 1:1 ratio by volume,
- II.E.1.e. Auto Shredder Residue, mixed with soil in 1:1 ratio by volume;
- II.E.1.f. Wood Chips, mixed with soil in 1:1 ratio by volume;
- II.E.1.g. Crushed Glass, mixed with soil in 1:1 ratio by volume;
- II.E.1.h. Petroleum contaminated soils, analyzed in accordance with 9VAC20-81-660.B., that meet the disposal criteria of 9VAC20-81-660.D. Petroleum

contaminated soils shall only be applied within the lined portions of the landfill, only on internal slopes, and only in areas where runoff is collected as leachate.

- II.E.1.i. Non-hazardous metal contaminated soils, characterized by a NELAP certified laboratory. Metal contaminated soils shall only be applied within the lined portions of the landfill, only on internal slopes, and only in areas where runoff is collected as leachate.
  - II.E.1.j. Dewatered, non-hazardous dredged materials, passing the Paint Filter Liquids Test, EPA Method 9095, and characterized by a NELAP certified laboratory. Dredged materials shall only be applied within the lined portions of the landfill, only on internal slopes, and only in areas where runoff is collected as leachate.
  - II.E.1.k. Non-hazardous lime materials, containing mostly Calcium Carbonate ( $\text{CaCO}_3$ ) and Calcium Oxide ( $\text{CaO}$ ). The lime materials shall be characterized by a NELAP certified laboratory, and applied only within the lined portions of the landfill, only on internal slopes, and only in areas where runoff is collected as leachate.
  - II.E.1.l. Other alternate materials that have been approved by the Director for use at this facility.
  - II.E.1.m. As a result of landfill operations involving the above ADC materials, volatile organic compounds may be emitted, or metal containing dust may be generated. It is therefore recommended that the facility proceed in accordance with all applicable Occupational Safety and Health Administration (OSHA) regulations, in order to limit exposure of employees to potential contaminants.
  - II.E.1.n. The use of an ADC material shall cease if the material is not effective at achieving the purposes of daily cover set forth in 9VAC20-81-140.B.1.c., and if the use results in nuisances, or if the material is erodible and contributes to exposed waste.
- II.E.2. Intermediate cover shall be applied when another lift of waste will not be placed for more than 30 days or to areas which exhibit erosion, cracking, or settlement.
- II.E.3. In areas where an additional lift of solid waste is not to be placed within one year, the following Interim Cover, in descending order, may be applied:
- 40 mil Linear Low Density Polyethylene (LLDPE) textured geomembrane (or equivalent), and
  - 12 inches of soil intermediate cover.
- II.E.4. Before placement of new waste in areas with low permeability daily cover soil or alternate daily covers, or in areas with intermediate cover, cover materials shall be removed or penetrated such that leachate can flow downward unimpeded to the

leachate collection system.

II.E.5. Final cover construction as outlined in Permit Module XII shall be initiated in accordance with, and when the requirements of 9VAC20-81-140.B.1.e., are met.

## II.F. HOUSEKEEPING

II.F.1. The facility shall control odors in accordance with 9VAC20-81-200.D., Module III, the facility's Odor Management Plan and as necessary to protect human health and the environment.

II.F.2. The facility shall use fencing or other suitable means to control litter migration. All litter blown from the operations shall be collected on a weekly basis.

II.F.3. Fugitive dust and mud deposits on main offsite roads and access roads shall be controlled at all time to limit nuisances. Dust shall be controlled to meet the requirements of 9VAC20-81-140.A.12.

II.F.4. Salvaging may only be performed in areas of the facility designated for salvaging or recycling. Salvaging operations must not interfere with the operations of the landfill or create hazards or nuisances.

II.F.5. Open burning at active landfills shall comply with the requirements of 9VAC20-81-140.A.4. Open burning is prohibited at areas being used for active disposal, or where waste has been deposited.

## II.G. SAFETY PROGRAM

Safety hazards to operating personnel shall be controlled through an active safety program consistent with the requirements of 29 CFR Part 1910. Safety training shall be performed annually, at a minimum.

## II.H. SELF-INSPECTION PROGRAM

The landfill shall implement an inspection routine including a schedule for inspecting all applicable major aspects of facility operations necessary to ensure compliance with the requirements of Part III of the VSWMR, i.e. 9VAC20-81-100 through 9VAC20-81-260. Records of these inspections must be maintained in the operating record and available for review. At a minimum, the following aspects of the facility shall be inspected on a monthly basis: erosion and sediment controls, storm water conveyance system, leachate collection system, safety and emergency equipment, internal roads, and operating equipment.

## II.I. OPERATIONS MANUAL REQUIREMENTS

- II.I.1. The facility shall be operated in accordance with 9VAC20-81-140, Module II, and an operations manual which has been certified by a responsible official and placed in the facility's operating record.
- II.I.2. The operations manual shall include the following items as required by 9VAC20-81-485:
- A certification page;
  - Operations Plan;
  - Inspection Plan;
  - Health and Safety Plan;
  - Unauthorized Waste Control Plan;
  - Emergency Contingency Plan; and
  - Landscaping Plan.
- II.I.3. The operations manual shall be reviewed and recertified annually to ensure consistency with the current operations and regulatory requirements.

## II.J. LEACHATE MANAGEMENT

Leachate shall be managed in accordance with 9VAC20-81-210, Module III, and the facility's Leachate Management Plan. If leachate seeps occur, the owner or operator shall repair the seeps and follow the procedures outlined in 9VAC20-81-210.F.

## II.K. LANDFILL GAS MANAGEMENT

Landfill gas shall be monitored in accordance with 9VAC20-81-200, Module III, and the facility's Landfill Gas Management Plan. The gas management system shall be inspected at a rate consistent with the system's monitoring frequency.

## II.L. ODOR MANAGEMENT

Odor shall be managed in accordance with 9VAC20-81-200.D, Module III, and the facility's Odor Management Plan.

## II.M. GROUNDWATER MONITORING

Groundwater shall be monitored in accordance with 9VAC20-81-250 and 9VAC20-81-260; Modules X and XI; and the respective groundwater permit documents, as applicable. The groundwater monitoring system shall be inspected at a rate consistent with the system's monitoring frequency.

**END OF MODULE II**

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