west virginia department of environmental protection

Division of Water and Waste Management
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Charleston, WV 25304
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Austin Caperton, Cabinet Secretary
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Revised April 3, 2018

APPLICATION FOR A WASTE TIRE MONOFILL PERMIT OR THE ADDITION OF A WASTE TIRE STORAGE CELL

To apply for a Waste Tire Monofill Permit or to apply for the Addition of a Waste Tire Storage Cell to an existing permit submit two (2) copies of the completed application to:

West Virginia Department of Environmental Protection
Division of Water and Waste Management
Solid Waste Management
601 57th St. SE
Charleston, WV 25304

A. Permit Application Requirements

1. File disclosure statements as required by 33CSR1 Subsection 3.14. "Background Investigation Disclosure Statement".
2. Attach a copy of the Certificate of Need (CON) from the Public Service Commission of West Virginia.
3. Attach a copy of the Certificate of Siting Approval from the county or regional solid waste authority as provided in W.Va. Code §22C-4-25.
4. Attach a copy of the approval letter from the Division of Culture and History (33CSR1 Subdivision 3.7.i.).
5. Attach a copy of the Lands Inquiry Response from the Wildlife Resources Section of the Division of Natural Resources (33CSR1 Subdivision 3.7.i.).

B. General Information

1. Provide the name, company name, address and telephone number of the applicant.
2. Provide the name, title, company name, address, and telephone number of the contact person.
3. Provide the name of the proposed facility.

4. Provide the following site information: address of the proposed facility, county in which the proposed facility is located, nearest post office of the proposed facility, latitude and longitude of the center of the proposed site, and the solid waste shed.
5. Provide a written description of the location of proposed facility.
6. Provide a copy of the deed or other means of legal description upon which the applicant has the legal right to enter and conduct operations on the property and whether that right is subject to pending legal action.
7. Provide the spacial area of the following: total permitted area, total disposal area (acres) of the facility, total disposal area (acres) of the proposed waste tire monofill/ waste tire storage cell, disposal area (acres) of each waste tire cell, and the disposal area (acres) of each disposal area not used for tire disposal at the existing facility.
8. Provide the estimated quantity of waste tires to be disposed each month.
9. Provide the source of waste tires: municipality, county, and state.
10. Provide the planned life of the proposed facility in volume (cubic yards) and in months.
11. Include a brief description of the technologies and methodologies of waste reduction, reuse, recycling and energy recovery of the waste tires accepted at the facility.
12. Provide a detailed description of waste tire alternatives that may be used in lieu of the proposed facility including: (1) any known waste tire reduction or recovery programs that operate in the area served by the facility and their potential for expansion, and (2) any waste tire reduction incentives and recycling services the proposed facility may encourage or offer.
13. Include a description of any recommendation for waste tire reduction and recovery in the solid waste management plan and any studies being conducted in the area to be served by the facility.
14. Provide the name, address and telephone number of the nearest market for recoverable waste tires and waste tire material.
15. Provide the names of the persons or organizations collecting or analyzing technical data, date of collection, the analyses of the data and the methodology used to collect and analyze the data.

C. Geological and Hydrological Information Requirement

1. Provide all information required by the Solid Waste Management Rule (33CSR1) including information relevant to soils, site geology, hydrology and the water budget required by 33CSR1.
2. The collection efficiency of the leachate collection system shall be calculated using an analytical method approved by the West Virginia Department of Environmental Protection (Department). The factors to be considered in the calculation of the collection efficiency must include: the saturated hydraulic conductivity of the liner, liner thickness, saturated hydraulic conductivity of the drainage blanket, drainage blanket porosity, base slope of the liner, maximum flow distance across the liner, annual infiltration and any groundwater inflow. Information gained from the collection efficiency calculations shall be used to predict the daily volume of leachate collected from the cell.

3. The physical and chemical characteristics of all leachate generated by the facility shall be analyzed and described. Laboratory testing shall be done in accordance with ASTM standards or published test procedures and shall be documented. The proposed testing program should be discussed with the Director prior to initiation of the work to include the leaching test method, leaching media and the parameters specified.

D. Facility Information

1. The applicant shall discuss the former, present and future land uses of the proposed facility and in an area of one mile surrounding the facility including a thorough discussion of land uses which may have an impact on the suitability of the property for waste tire placement and affected groundwater quality. The discussion shall be supplemented with a land use map specifically addressing adjacent land owners, land zoning, documentation of present land use and transportation routes to and from the facility.
2. Provide a description of the existing terrain.
3. Provide a written description of the proposed operating procedures including facility development, filling sequence, access control of each phase of development, surface water control, screening, covering frequency and the exclusion of hazardous and other unacceptable waste.
4. Describe the proposed method of leachate collection, containment and treatment.
5. Provide a monitoring plan for groundwater, leachate, surface water and air to be implemented at the facility.

E. Engineering Plans and Engineering Report

The engineering design plans and the engineering report must be signed and sealed by a professional engineer registered in West Virginia. The liner system presented on the plans shall, at a minimum, comply with the requirements of 33CSR5. The plans must include information required by 33CSR1, unless waived by the Director, be presented on 24" x 36" plan sheets, and contain a survey grid with a maximum dimension of two hundred (200) feet square based on monuments established in the field that is referenced to state plane coordinates.

The plans must also include the following information:

1. Provide a location map showing the site boundaries, proposed disposal cell areas, fifteen hundred (1,500) feet surrounding the site and the latitude and longitude lines crossing at the center of the site. USGS quadrangle maps need to include the name of the quadrangle map and the last revision date.
2. Provide an Existing Conditions Plan that includes present land use, existing contours, surface water drainage patterns, significant hydrologic features (e.g., surface waters or springs), property ownership, and adjacent property owners, structures at the facility, transportation routes, proposed access, and access restrictions. The map of the existing conditions shall be used as a base map.

3. Proposed conditions plans must show the proposed disposal area(s), phases of facility development, planned structures at the facility, proposed contours, travel distance, and each potential borrow source. The plans must provide contours of the elevations of the proposed subgrade, subbase, clay liner, and protective cover, and the filling sequence of the waste tire cell(s).
4. Provide the following information on large scale maps with a minimum scale of 1 inch = 200 feet and a maximum contour interval of ten (10) feet, or on the 7.5 minute USGS topographic map, or both. Show the following information, existing and planned, that occur either within the site boundaries or within fifteen hundred (1,500) feet of the site boundary, or within the distances specified in 33CSR1 Subsections 3.1 and 3.2.. Include all:

Property lines of the facility
Identity and location of adjacent land owners
Owners of record both surface and subsurface
Uses of adjacent properties
Water supply wells
Springs
Wetlands
Streams
Diversion ditches
Ponds
Other bodies of water
100-year flood plain boundary
Public water supplies
Sinkholes
Groundwater discharge points
Underground and surface mines
Mine pools discharges
Mine spoil piles and points of discharge
Mine refuse spoil piles and impoundment capabilities
Quarries or sand and gravel pits
Gas and oil wells
Surface and groundwater quality monitoring points
Leachate or other wastewater discharge points
Roads
Powerlines (indicate ownership)
Pipelines (indicate ownership)
All utilities (indicate ownership)
All easements or right-of-ways (indicate ownership)
Occupied dwellings
Public buildings
Weighing facilities
Sinkholes
Fences
Identity and location of any airports within fifteen hundred (1,500) feet of the site (insert may be used)

5. Provide borrow source calculations including estimated volume necessary and total acreage to be disturbed.
6. The waste tire liner system shall, at a minimum, comply with the requirements of 33CSR5. The plans shall indicate the design of the liner system, thickness and characteristics of each element of the liner, nature and material of each element of the liner, and a plan for the installation of the liner system.
7. Provide a drainage plan that includes erosion and sediment control structures and the disturbed acreage and indicates the direction of runoff.
8. Provide a closure plan that includes final contour elevations and sequence of closure activities.
9. Provide all engineering calculations to support the design.
10. Provide a sheet showing the proposed location of monitoring points for groundwater, surface water, air and other monitoring programs.
11. Provide detail sheets.
12. Provide a materials balance calculation including source for berms, liner, daily cover material, intermediate and final cover, topsoil, drainage systems and other fill needs.
13. The submission must include: a Narrative, Specifications; and a Quality Assurance and Quality Control (Q.A./Q.C.) plan.
14. Provide a revegetation plan including seed mixture, fertilizer and mulch.
15. Other information may be required by the Director.

F. Bonding and Financial Assurance

1. The applicant shall provide written documentation to demonstrate financial availability to support land acquisition, preparation and construction of the facility, daily operations, and closure and long term care. Include an estimated cost per ton of material received.
2. Bonding and financial assurance must be submitted prior to the issuance of this permit. The applicant needs to provide means to meet the bonding and financial assurance requirements of W. Va. Code §22-15, Solid Waste Management Rule (33CSR1), and the Waste Tire Management Rule (33CSR5).
3. The applicant shall attach a nonrefundable application fee of three thousand dollars ($3,000.00) with the original application. The DEP may require an additional fee of ten (10) percent of the application fee for any application refiled due to deficiency or incompleteness.

We will process your personal information (email address, mailing address and/or telephone number) in accordance with the State of West Virginia's Privacy Policy for appropriate and customary business purposes. Your personal information may be disclosed to other state agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. The Division of Water and Waste Management will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact the DEP's Chief Privacy officer at depprivacyofficer@wv.gov.