

Narrative

Prepared for

Justin Dagenhart

Special Land Use Permitting

LCID Landfill

Catawba County, NC

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Prepared by

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Introduction and Overview

In accordance with Catawba County Ordinances, Wright & Associates is submitting this Narrative and Application in support of a Special Use permit to construct a new Land Clearing and Inert Debris (LCID) landfill within a parcel containing approximately 285.34 acres. The parcel is located to the east of Bolton Road and west of Brown's Chapel Roads extending from Balls Creek to the north south basically on both sides a Duke power transmission line. The boundaries of the overall parcel are shown on Figure 2-1.

The 285-acre parcel is currently zoned R-40. The part of the parcel that will contain the land fill would have to obtain a special use permit to construct the landfill.

The proposed land fill area boundary is shown on Figure 1 and close up on C-2 The boundary of the fill area contains approximately 10 acres.

The land is currently owned by Hunter Luke Harvey and is farmed by Justin Dagenhart. Dagenhart will be purchasing the land from Harvey shortly and is requesting a special use permit to be able to construct the landfill.

The facility is needed to provide a place to dispose of land clearing and inert debris generated during development of land. The rapid development of land in this area has and will drive the need for disposal of this type of waste in a regulated facility.

Applicability Requirements of LCID Landfills

Under State requirements an individual permit is required by Rule .0563 for the construction and operation of a landfill of Land Clearing and Inert Debris landfill when the facility is to be operated for clearing waste, inert debris, untreated wood, and yard trash. Operations must be consistent and comply with the local government requirements as well. Individual permits shall be issued for not more than five years.

Siting Requirements for LCID landfills

Floodplains

Attached to this Narrative is a map showing the proposed landfill location in relation to flood plains on Balls Creek. The landfill is not in that area. The landfill is situated close to an unnamed tributary approximately 3,000' from the confluence with Balls Creek. The location is not in a floodplain.

Endangered and Threatened Species

A report of the wetlands and environmental siting and criteria prepared by Wetland & Water, Inc. is attached to this narrative. No jurisdictional wetlands threatened or endangered species, nor cultural resources were found.

Cover Soils

Suitable soils for cover are available on-site.

Surface and Groundwaters Requirements

No waste material shall be placed closer than four feet of the Seasonal High Groundwater. Catawba Valley Engineering and Testing advanced two borings in the landfill and installed piezometers to determine the water table height. Boring #1 (at the lower end of the site) did not contain any water. Boring #2 (located at the high end of the site) did contain water. The elevation of the Seasonal High Groundwater was determined. See the attached report from Catawba Valley.

Buffer Requirements

The facility must be situated no closer than 50' from all surface water and 100' from property lines, residential dwellings, commercial or public buildings and wells. The attached drawing shows the waste footprint and required buffers.

Local Government Approvals

Approval from Catawba requires the property of the landfill be approved under a Special Use Permit. Submittal to support an application must contain the following items. This is from the Catawba County UDO.

Sec. 44-654. Landfill - land-clearing and inert debris (LCID).

- (a) Where the designated area of the landfill is less than 2 acres, a special use permit is required by the County with notification to the state. Where LCID landfills are 2 acres or larger, a special use permit is required by the County and a state permit is required. Only one LCID is permitted per parcel.
- (b) The facility may only be used for the purpose of disposal of land-clearing debris, concrete, brick, concrete block, uncontaminated soil, used pavement asphalt, gravel or rock, untreated or unpainted wood, or yard waste. The facility may not be used for the disposal of construction or demolition debris.
- (c) The landfill must be located out of the 100-year floodplain and not in a wetland, as defined by Section 404(b) of the Clean Water Act.
- (d) The landfill must be 100 feet from any property line.
- (e) The landfill must be 100 feet from any residential dwelling or commercial or public building.
- (f) The landfill must be 100 feet from any well.
- (g) The landfill must be 50 feet from all surface waters.
- (h) The landfill must be placed above the seasonal high groundwater table.
- (i) The applicant must furnish a certified soil analysis, prepared by a soil scientist, indicating that the proposed landfill will be located above the seasonal high-water

table and if located where proposed, will provide adequate separation from any source of groundwater to protect the groundwater from contamination.

- (j) The facility must be adequately secured by means of gates, chains, berms, or fences.
- (k) A sign, with minimum letter size of 4 inches, must be posted at the entrance stating, "Authorized Persons Only" and "No Trespassing - Keep Out."
- (l) A survey map of the property must be prepared by a registered land surveyor. The survey map must be either 8 ½ inches by 11 inches or 8 ½ inches by 14 inches. The map must show the following:
 - (1) Name of the owner, property lines, north arrow, scale, bearings, and distances taken from the deed.
 - (2) Disposal area delineated which meets all setback noted above.
 - (3) Certification and seal of the registered land surveyor or registered engineer.
 - (4) The review officers' certificate to be signed by a County review officer. A memorandum of the land-clearing and inert debris landfill along with an attached survey map delineating the landfill must be recorded at the office of the County register of deeds. After the documents are recorded, a copy must be furnished to the County planning office.
- (m) Adequate soil cover must be applied monthly, as inspected by the utilities and engineering department. The final cover must be a minimum of 2 feet of compacted earth properly graded with establishment of suitable vegetative cover.
- (n) The permit shall be issued for not more than 5 years. After the 5 year period, the landfill must be properly closed or another LCID application must be submitted and approved.
- (o) A LCID landfill permit must be obtained from the County.
- (p) The facility must meet be permitted and operated in accordance with the state solid waste management's rules.
- (q) The applicant must agree to make the facility available for unannounced periodic inspections by County or state officials.
- (r) The facility or practices must no cause or contribute to the taking of any endangered or threatened species of plants, fish or wildlife.
- (s) The facility or practices must not damage or destroy an archaeological or historical site.
- (t) Open burning of solid waste is prohibited.

Attachments to this Narrative are:

1. Overall map showing relative locations to the landfill site and other features to demonstrate that the site is in accordance with the County UDO.
2. A close up view of the land fill area.
3. The Wetlands and Environmental study report
4. The Report of soils investigation
5. A survey plat of the area contained in the landfill site. (This document will be recorded after approval of the Special Use permit)
6. Application for the Special Use permit
7. Special Use Permit Development Chart