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April 30, 1981

Mr. Tony Withers
L. E. Wooten Construction Co.
Box 2984
Raleigh, NC 27602

Dear Mr. Withers:

The enclosed plan is approved in accordance with
G.S. 130-166. Permit Number 96-01 is issued under
conditions provided for on the permit.

If you have any questions, please advise.

Very truly yours,

Thomas C. Karnoski, Environmental Engineer
Solid & Hazardous Waste Management Branch
Environmental Health Section

TCK:ns
cc: Fred J. Wood

PERMIT NO. 96-01

DATE ISSUED 4-30-81

STATE OF NORTH CAROLINA
DEPARTMENT OF HUMAN RESOURCES
Division of Health Services
P.O. Box 2091 Raleigh 27602

SOLID WASTE PERMIT

WAYNE COUNTY is hereby issued a permit to
operate a SANITARY LANDFILL
located ON S.R. 1129, DUDLEY, N.C.,
in accordance with Article 13B of the General Statutes of North Carolina and all
rules promulgated thereunder. The facility is located on the below described
property.

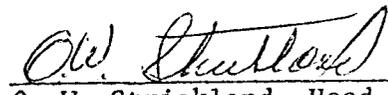
TRACT 1:

BEGINNING at an iron stake on the north side of the public road where a small branch crosses said public road, Fred Martin's corner, and runs thence with the north side of the said public road, eastwardly 1130 feet to a point thence with the north side of the public road, N. 56 E. 560 ft. to a point; thence the north side of the public road N. 70 E. 280 feet; thence with the north side of the public road N. 60 E. 160 feet; thence with the north side of said road N. 75 E. 320 feet; thence with the north side of said road N. 80-1/2 E. 440 feet; thence with the north side of said road, S. 84 E. 185 feet; thence with the north side of said road N. 79-1/2 E. 326 feet to a point on the north side of said road, Fred Martin's corner; thence with the line of Fred Martin's land N. 26-1/2 W. 1,100 feet to a stake, the run of Edwards Branch; thence with the run of Edwards Branch westwardly 3,000 feet to a point where a small branch empties into Edwards Branch; thence with the run of the small branch southwardly 1,700 feet, its various courses, to an iron stake on the north side of the public road, the beginning, containing 112 acres, more or less.

(continued)



Hugh H. Tilson, M.D.
Director
Division of Health Services



O. W. Strickland, Head
Solid & Hazardous Waste Management
Branch
Environmental Health Section

PERMIT NO. 96-01

DATE ISSUED 4-30-81

SOLID WASTE PERMIT

Property Description (Continued):

Tract 2:

Beginning at any iron stake at the southeast corner of said property which is also the stake marking a corner of the adjacent Weaver property and Vester Whitley property, proceed 1,831.38' S $66^{\circ} 16'$ W to an iron stake; thence 431.26' S $11^{\circ} 46'$ W to an iron stake, the actual point being the centerline of Edwards Branch; thence 90.57' S $55^{\circ} 25' 18''$ W to an iron stake, the actual property line being the centerline of Edwards Branch; thence 117.99' S $85^{\circ} 44'$ W to an iron stake; thence 80.04' S $80^{\circ} 37' 36''$ W to an iron stake; thence 73.73' S $88^{\circ} 11' 13''$ W to an iron stake; thence 345.69' N $11^{\circ} 46'$ E to an iron stake; thence 1,071.86' N $7^{\circ} 44'$ W to an iron stake, the approximate centerline of an unnamed branch, and the actual property line being the centerline of the branch; thence 91.32' N $79^{\circ} 32' 12''$ W; thence 113.65' N $57^{\circ} 01'$ W; thence 247.79' N $80^{\circ} 46' 48''$ W; thence 82.23' N $60^{\circ} 52' 48''$ W to the centerline of Mill Run Branch, the actual property line; thence 306.14' N $38^{\circ} 35' 48''$ E to an iron stake; thence 318.57' N $87^{\circ} 01' 18''$ E to an iron stake; thence 377.71' S $68^{\circ} 05' 54''$ E to an iron stake; thence 199.76' S $88^{\circ} 08' 24''$ E to an iron stake; thence 994.84' N $78^{\circ} 06' 58''$ E to an iron stake; thence 911.48' S $45^{\circ} 39' 05''$ E to an iron stake, the point of beginning, and enclosing approximately 51.3 acres \pm .

PERMIT NO. 96-01

DATE ISSUED 4-30-81

SOLID WASTE PERMIT

Conditions of Permit:

1. This permit may be subject to review at an administrative hearing upon petition of anyone whose legal rights, privileges and duties may have been affected by the issuance thereof.
2. The following requirements shall be met prior to receiving solid waste at the site:
 - a. Filing of the certified copy of the permit with the register of deeds.
 - b. Site preparation in accordance with operational plan.
 - c. Site inspection made by a representative of the Division of Health Services.
 - d. Posting of the solid waste permit number on the entrance sign to the landfill.
3. No waste is to be placed in areas designated H or I until proof is furnished to this office that the perched water system has effectively been removed.
4. A copy of the plans are to remain available at all times to the site operator.
5. Piezometers (numbered 1, 2, 3, 4, 6A and located on sheet #2 of the operational plan) should be upgraded to be used as groundwater monitoring points.

MEMORANDUM

TO: Tom Karnoski
Solid & Hazardous Waste Management Branch

FROM: Wyatt Brown ^{WB}
Land Quality Section

DATE: April 27, 1981

SUBJECT: Dudley Landfill
Wayne County

We have completed our review of the sediment and erosion control plan for the subject project. We are satisfied that it meets the requirements of Section .0017 of the North Carolina Administrative Code, Title 15, Chapter 4, and are approving it for construction.

Approval is subject to satisfactory performance of the erosion control measures under field conditions. Should any of the measures fail to provide effective control, additional measures may be required.

North Carolina General Statute 113A-61(d) reserves the right of inspection of the site by our staff to determine compliance with the approved plan. We request notification of our office once proposed work begins so as to make an inspection of the installed erosion control measures before the commencement of proposed grading.

If construction does not commence within one year of this letter, then approval is void and a re-submittal of plans will be required.

We look forward to working with you on this project.

CC: Tony Withers
L.E. Wooten Construction Co.
Box 2984
Raleigh, N.C. 27602

OPERATIONAL PLAN AND REPORT
SOUTHERN WAYNE COUNTY LANDFILL SITE NEAR DUDLEY
WAYNE COUNTY, NORTH CAROLINA

MARCH 1981



L. E. WOOTEN AND COMPANY
CONSULTING ENGINEERS
RALEIGH, NORTH CAROLINA

OPERATIONAL PLAN REPORT

General

Wayne County operates two sanitary landfills, one - a 112 acre site in the southern portion of the County near Dudley and a second - a 183 acre site in the northern portion of the County near Pikeville. In the spring of 1980, Wayne County engaged L. E. Wooten and Company to prepare an Operational Plan for each site. This report addresses the southern site near Dudley. It was prepared by L. E. Wooten and Company, with soils information (see attached) provided by Soil Testing Services, in accordance with guidelines provided by the Solid and Hazardous Waste Management Branch of the Division of Health Services, North Carolina Department of Human Resources. Questions or comments pertaining to this report should be addressed to L. E. Wooten and Company, P. O. Box 2984, Raleigh, North Carolina 27602.

Population

The 1980 census population of Wayne County is 96,513. The estimated 1990 and 2000 population according to projections provided by the North Carolina Division of Environmental Management are 103,150 and 110,250 respectively. Approximately 7 percent of the County population live on Seymour Johnson Air Force Base and use the Base landfill. They should not be considered as active users of the County landfills.

Operational Procedure

Procedures followed by the County in operating landfill follow closely to current acceptable landfill practice. The disposal method of trenching is considered to be the best suited disposal method and will continue. Only one trench will be open at any one time. Trenches will be excavated as needed staying ahead of filling operations. A drainage ditch will be cut initially along the total length of the trench to provide drainage to the sedimentation basin while the trench is open. Filling procedure includes a daily cover of 6 inches of fill material to be placed and compacted over the refuse at the end of each days operation. All refuse when placed is to be rolled a minimum of two times with appropriate compaction equipment to obtain an approximate in place compacted density of 1,200 pounds per cubic yard. Final cover will be placed and compacted over the entire fill area at not less than 2 feet with a minimum 2 percent final slope maintained. Upon recommendation by the State, two areas adjacent to the site have been evaluated as additional borrow areas. One was found suitable should additional cover and/or trench line material be needed. (See Soils Report and Operational Plan).

Materials to Be Disposed

The materials presently being deposited at the southern landfill site near Dudley according to information provided by landfill personnel, including typical Dudley domestic refuse consisting of food waste, paper, cans, tires, bottles, appliances, etc. In addition, commercial waste including tire retread waste, food processing residue, rendering residue, and building materials are also deposited on the site. Two (2) separate areas of the landfill are reserved for specific wastes. One area is restricted only to tires. A second area is reserved for wood scraps, trees, branches, leaves, sawdust, stumps, brick, rock,

morter, and building materials considered "clean-fill" or fill that does not require cover. No liquids, chemicals, or hazardous wastes are accepted at the site. The materials being deposited are not expected to change significantly during the life of the landfill. Table 1 in the back of this report provides an estimated breakdown of the materials and quantities of refuse presently being deposited at the southern landfill site near Dudley on an average day.

Anticipated Lifetime of the Project

Estimated volumes of materials brought to the landfill were provided by landfill personnel in order to predict the estimated life of the Dudley site. Calculations based upon these estimates (Table 2) indicate an expected life of approximately 5 years. In contrast, estimates made by the same personnel based upon the rates in which ground is presently being consumed indicates a much longer expected landfill life - 10 to 12 years. Similar estimates made for the northern site near Pikeville indicate a more consistent expected life for that site of approximately 20 years. A more detailed analysis of materials and quantities deposited at each site is needed and should be determined before a precise expected life for either site is determined. Redistribution of waste placement should be considered as an alternative to expansion of the southern site.

Equipment

The following equipment is kept at the southern landfill site near Dudley on a permanent basis:

- Caterpillar Trash Compactor - Model 816
- TD 20 Track-type Crawler Tractor with Trash Blade
- 977 Caterpillar Tract-type Crawler Tractory with 4 & 1 Bucket

The following equipment is also kept at the southern landfill site but is taken to the northern site near Pikeville as needed to provide support for the equipment kept at the northern site.

- North 41 dragline
- International Scraper 5-1200 - 12 CY capacity
- 175 International Crawler Track-type Loader
- Smaller Crawler Tractor with Dirt Blade
- Two-ton Dump Truck
- Allas Chalmers Rubber Tire Loader with Small Bucket

Presently some duplication of service capability of existing equipment is noted. Preliminary information does, however, support the need for a motor grader to be added to the County's present equipment inventory to serve both sites. Further equipment evaluations can not be made without additional analysis.

Projected Use of Land After Completion of Project

The intended use of the Dudley site when landfilling is completed is undetermined. Some consideration has been given to agricultural uses, including possible crop production.

Responsible Individuals

Mr. Roy Voissem is Superintendent of both Wayne County landfill operations. He may be contacted at 1-919-689-2994 or by mail at the Wayne County Courthouse, Goldsboro, North Carolina 27530. The Wayne County Executive is Bruce S. Grice, Sr. He may be contacted at 115 S. William Street, Box 227, Goldsboro, North Carolina 27530.

TABLE I
ESTIMATE OF AVERAGE DAILY DEPOSITS
SOUTHERN WAYNE COUNTY LANDFILL SITE NEAR DUDLEY
WAYNE COUNTY, NORTH CAROLINA

	No. of Vech.	Trips x Day	= Tot. Trips Per Day	Est. CY x Per Trip	= CY Per Day	Est. Wt. Per CY	= Approx. lb. Per Day
Commercial Hauler	40	1	40	16	640	300	192,000
City of Goldsboro	6	1	6	80	480	400	192,000
Cherry Hospital	1	.6	.6	80	48	400	19,200
City of Mt. Olive	3	3.3	10	12	120	400	48,000
Misc. Private Pick-ups	32	1	32	2	64	150	9,600
Ga-Pacific	2	3	6	8	48	300	* Clean Fill
Kemp Furniture	2	4	.8	8	6.4	150	960
J. P. Stevens	1	.4	.4	15	6	150	900
Celotex	2	4	2	12	24	400	Clean Fill
Wayne Mfg.	1	1	1	12	12	150	1,800
Berry Mfg.	1	1	1	12	12	150	1,800
Wayne Co.	2	4.5	9	40	360	150	<u>54,000</u>
							lb/day 520,260

TABLE II
ESTIMATED LIFE OF SOUTHERN SITE NEAR DUDLEY

$$\frac{(520,260 \text{ lb/day})}{(1,200 \text{ lb/CY})} = 433 \text{ CY/day}$$

$$\frac{(31,400 \text{ ft. trench}) (53 \text{ ft.}) (12 \text{ ft.})}{(27 \text{ cf/CY})} = 739,644 \text{ CY} \quad \frac{739,644 \text{ CY}}{(433 \text{ CY/day}) (6 \text{ day/wk}) (52 \text{ wk/yr})} = 5.5$$

Use 5 years

DESCRIPTION: SOUTH SIDE OF SOUTHERN WAYNE COUNTY LANDFILL SITE NEAR DUDLEY

BEGINNING AT AN IRON STAKE ON THE NORTH SIDE OF THE PUBLIC ROAD WHERE A SMALL BRANCH CROSSES SAID PUBLIC ROAD, FRED MARTIN'S CORNER, AND RUNS THENCE WITH THE NORTH SIDE OF THE SAID PUBLIC ROAD, EASTWARDLY 1130 FEET TO A POINT THENCE WITH THE NORTH SIDE OF THE PUBLIC ROAD, N. 56 E. 560 FT. TO A POINT; THENCE WITH THE NORTH SIDE OF THE PUBLIC ROAD N. 70 E. 280 FEET; THENCE WITH THE NORTH SIDE OF THE PUBLIC ROAD N. 60 E. 160 FEET; THENCE WITH THE NORTH SIDE OF SAID ROAD N. 75 E. 320 FEET; THENCE WITH THE NORTH SIDE OF SAID ROAD N. 80-1/2 E. 440 FEET; THENCE WITH THE NORTH SIDE OF SAID ROAD, S. 84 E. 185 FEET; THENCE WITH THE NORTH SIDE OF SAID ROAD N. 79-1/2 E. 326 FEET TO A POINT ON THE NORTH SIDE OF SAID ROAD, FRED MARTIN'S CORNER; THENCE WITH THE LINE OF FRED MARTIN'S LAND N. 26-1/2 W. 1,100 FEET TO A STAKE, THE RUN OF EDWARDS BRANCH; THENCE WITH THE RUN OF EDWARDS BRANCH WESTWARDLY 3,000 FEET TO A POINT WHERE A SMALL BRANCH EMPTIES INTO EDWARDS BRANCH; THENCE WITH THE RUN OF THE SMALL BRANCH SOUTHWARDLY 1,700 FEET, ITS VARIOUS COURSES, TO AN IRON STAKE ON THE NORTH SIDE OF THE PUBLIC ROAD, THE BEGINNING, CONTAINING 112 ACRES, MORE OR LESS.

DESCRIPTION: NORTH SIDE OF SOUTHERN WAYNE COUNTY LANDFILL SITE NEAR DUDLEY

BEGINNING AT ANY IRON STAKE AT THE SOUTHEAST CORNER OF SAID PROPERTY WHICH IS ALSO THE STAKE MARKING A CORNER OF THE ADJACENT WEAVER PROPERTY AND VESTER WHITLEY PROPERTY, PROCEED 1,831.38' S 66° 16' W TO AN IRON STAKE; THENCE 431.26' S 11° 46' W TO AN IRON STAKE, THE ACTUAL POINT BEING THE CENTERLINE OF EDWARDS BRANCH; THENCE 90.57' S 55° 25' 18" W TO AN IRON STAKE, THE ACTUAL PROPERTY LINE BEING THE CENTERLINE OF EDWARDS BRANCH; THENCE 117.99' S 85° 44' W TO AN IRON STAKE; THENCE 80.04' S 80° 37' 36" W TO AN IRON STAKE; THENCE 73.73' S 88° 11' 13" W TO AN IRON STAKE; THENCE 345.69' N 11° 46' E TO AN IRON STAKE; THENCE 1,071.86' N 7° 44' W TO AN IRON STAKE, THE APPROXIMATE CENTERLINE OF AN UNNAMED BRANCH, AND THE ACTUAL PROPERTY LINE BEING THE CENTERLINE OF THE BRANCH; THENCE 91.32' N 79° 32' 12" W; THENCE 113.65' N 57° 01' W; THENCE 247.79' N 80° 46' 48" W; THENCE 82.23' N 60° 52' 48" W TO THE CENTERLINE OF MILL RUN BRANCH, THE ACTUAL PROPERTY LINE; THENCE 306.14' N 38° 35' 48" E TO AN IRON STAKE; THENCE 318.57' N 87° 01' 18" E TO AN IRON STAKE; THENCE 377.71' S 68° 05' 54" E TO AN IRON STAKE; THENCE 199.76' S 88° 08' 24" E TO AN IRON STAKE; THENCE 994.84' N 78° 06' 58" E TO AN IRON STAKE; THENCE 911.48' S 45° 39' 05" E TO AN IRON STAKE, THE POINT OF BEGINNING, AND ENCLOSING APPROXIMATELY 51.3 ACRES ±.