

CLOSURE PLAN

FOR

**ANDERSON CREEK
LANDFILL SITE**

State Contact

**Mr. Jim Coffey
Division of Solid Waste Management
NCDEHNR
P.O. Box 27687
Raleigh, North Carolina 27611-7687
Phone: 919-733-0692**

Prepared by:

**McKIM & CREED ENGINEERS, P.A.
5625 Dillard Road, Bldg. 1, Suite 117
Cary, North Carolina 25711**

M&C Project No. 304/91978.00

September, 1993



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A. Background of Landfill Site

The Anderson Creek Landfill is located approximately 15 miles west of Lillington, south of SR 27 as shown on the attached location plan. The first phase municipal solid waste (MSW) and demolition landfill area was originally started at the southern end of the Anderson Creek landfill site. In 1981, the sites were continued and phased north to their present locations as shown on the attached site plan. Recycling bins remain near the maintenance building at the landfill entrance.

B. Proposed Layout of Landfill Site

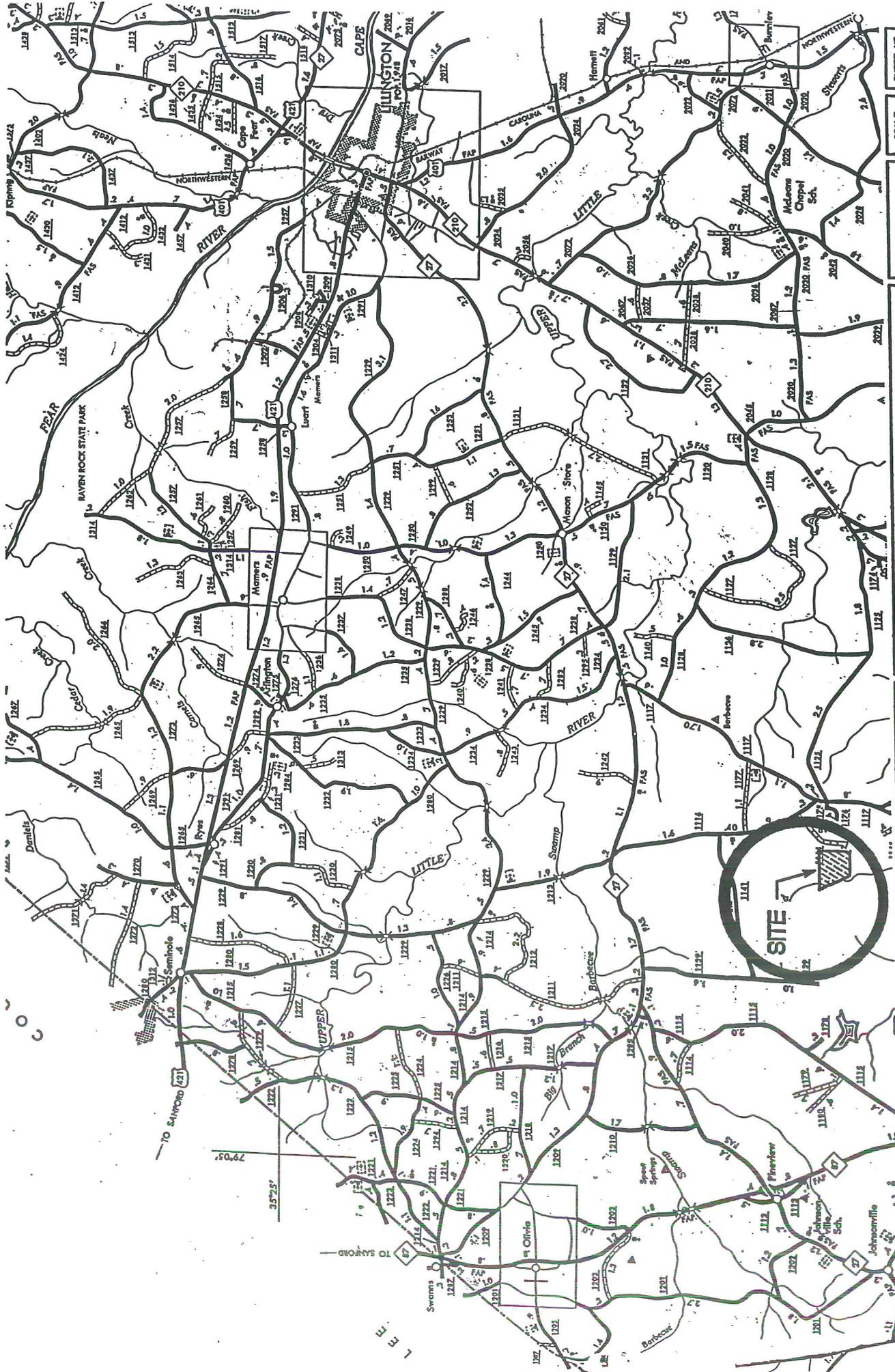
The municipal solid waste landfill to be closed out is shown in the site plans. A new inert debris demolition landfill receiving land clearing and inert debris has started operation north of the closure location. A continuation of the construction and demolition (C&D) landfill is being proposed on the west end of the landfill. The design life of the C&D landfill is approximately 40 years. (See Erosion Control Calculation Attachment)

A temporary transfer station is being proposed on the east side of the site. The station will include a weigh station, yard waste area, a recycling center, and a building that will handle incoming municipal solid waste. Recyclable items include glass and aluminum cans as well as used oil, car batteries and residential used tires. These materials will be transported off-site. Incoming municipal solid waste will be transferred to Dunn-Erwin Landfill site located on the east side of Harnett County. Commercial tires and asbestos will be accepted only at the Dunn-Erwin site. The yard waste area will receive vegetative matter from landscaping/yard maintenance as outlined in Policy Memorandum #16 of the N.C. DEHNR Division of Solid Waste Management. A site application for a permanent transfer station is already in process.

C. Closure Conditions

The closure plan shows that a two (2) foot cap of compacted earth will be installed to minimize infiltration and erosion. This cap will be installed within six (6) months of last receipt of waste and will be constructed to minimize infiltration and seepage as outlined in the "Closure Conditions for Municipal Solid Waste Landfills" memo dated May 1, 1993. Samples of the soil taken from the two foot cover on the landfill satisfies permeability requirements for final cover based on studies performed by Patterson Exploration Services. Refer to "Geological and Geotechnical Evaluations of the Proposed Construction and Demolition Landfill", dated May 12, 1993.

Existing and proposed drainage ditches will be checked to assure that adequate capacity is provided so that surface water does not intrude on to the top of waste areas. New ditches will be constructed in areas where erosion currently exist. Permanent erosion control measures including rip rap and jute netting will be provided, as required, in all



SHEET NO. 1 OF 1

SCALE HORIZONTAL N/A VERTICAL

DATE JUNE 1999
 HCE PROJ. # 91978.00
 DWG. FILE #

LOCATION PLAN

ANDERSON CREEK LANDFILL

MCKIM & CREED
 ENGINEERS • PLANNERS • SURVEYORS
 WILMINGTON, NORTH CAROLINA
 SHIFFIELD, NORTH CAROLINA



**PATTERSON
EXPLORATION SERVICES**

P.O. BOX 3008 - SANFORD, N.C. 27331-3008 - (919) 774-3770
FAX: (919) 774-3510

September 16, 1993

Mr. C. T. Clayton, P.E.
McKim & Creed
Suite 117, Building 1
5625 Dillard Road
Cary, N. C. 27511

RE: LFG Survey - Anderson Creek Landfill
Harnett County, North Carolina

Dear Mr. Clayton:

On March 23, 1993, Patterson Exploration Services conducted a landfill gas (LFG) survey along the perimeter boundary of the Harnett County Anderson Creek Landfill. The survey consisted of walking the boundary of the landfill with a methane sensitive OVA and a combustible gas OVA to determine if any methane or other combustible gases were present. Although combustible gases and methane gas were detected in some areas, all of the readings on this date (March 23, 1993) were well below 5% of the lower explosive limit (LEL).

The shop building located at the entrance to the landfill as well as the scale house also had indicated no readings high enough to cause concern. It is my opinion that there are currently no combustible gases or methane above or at 5% LEL passing the property boundaries of the Anderson Creek Landfill.

If you have any questions, please call me at 919-774-3770.

Sincerely,

O. F. Patterson, III, P.G., C.P.G.
PATTERSON EXPLORATION SERVICES

OFP/scp

TO: C. T. Clayton McKim & Creed	FROM: Russ Patterson Patterson Exploration	DATE: 9/17/93	NO. PAGES INCLUDING 1	DPS 14803
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