

May 10, 1979

Mr. Hugh M. Stroud
Finance Officer, Lenoir County
Courthouse
Kinston, NC 28501 *HWS*

Dear Mr. Stroud:

I am enclosing two estimates; one for the total county and one without the City of Kinston.

There has been great progress made in North Carolina by getting cities and counties to work together in solid waste disposal. In 1970 there were 416 municipalities that operated disposal sites, today there are only 24 operating and six of those are operating for the total county. As you can observe from cost estimates, it is much less expensive to operate together. Not only is the cost less but the type of equipment recommended if you work together will do a much better job of compacting with less repair cost.

Please let me know if we can provide more information. I would like to know what your present cost is just for my information.

If you want a meeting with your board or the combined city and county boards, please let me know.

Sincerely,

O. W. Strickland
Assistant Head for Solid and
Hazardous Waste Management

OWS:nts

Enclosures (2)

cc: Mr. Fred J. Wood

Estimated capital investment and annual operating cost of a sanitary landfill to serve the total population of Lenoir County.

<u>ITEMS</u>	<u>INITIAL COST</u>	<u>ESTIMATED LIFE</u>	<u>ANNUAL COST</u>
Operational plan	\$ 4,000	10 Years	\$ 400
Site preparation	10,000	10 Years	1,000
Compactor	125,000	8 Years	15,625
*Loader or dozer	100,000	5 Years	20,000
*Drag line or pan	100,000	5 Years	20,000
Equipment shed and repair shop	20,000	10 Years	2,000
Tools	<u>3,000</u>	10 Years	<u>300</u>
TOTAL	\$362,000	TOTAL	\$59,325

Site manager and stand-by equipment operator	\$ 14,000
Two (2) equipment operators @ \$10,000 each	20,000
One (1) gateman	7,200
1/10 times County Manager @ \$25,000	2,500
Fringe benefits @ 20%	8,740
Interest on Capital investment @ 9%	32,580
Seeding and erosion control	5,000
Fuel and repairs	35,000
Insurance, utilities, road maintenance, etc.	<u>8,000</u>
Estimated Annual Cost	\$133,020
Depreciation	<u>59,325</u>
TOTAL	\$192,345

*This type of equipment should not be decided upon until plans have been made.

Estimated capital investment and annual operating cost of a sanitary landfill to serve the population of Lenoir County with the exception of the City of Kinston.

<u>ITEMS</u>	<u>INITIAL COST</u>	<u>ESTIMATED LIFE</u>	<u>ANNUAL COST</u>
Operational plan	\$ 3,000	10 Years	\$ 300
Site preparation	10,000	10 Years	1,000
Large loader	100,000	5 Years	20,000
One dozer	100,000	5 Years	20,000
Equipment shed and repair shop	15,000	10 Years	1,500
Tools	<u>3,000</u>	10 Years	<u>300</u>
TOTAL	\$231,000	TOTAL	\$ 43,100

Site manager and operator	\$ 12,000
One (1) equipment operator	9,000
One (1) gateman	7,200
1/10 times County Manager @ \$25,000	2,500
Fringe Benefits @ 20%	6,140
Interest on Capital investment @ 9%	20,790
Seeding and erosion control	5,000
Fuel and repairs	20,000
Earth moving by contract	10,000
Insurance, utilities, road maintenance, etc.	<u>5,000</u>

Estimated Annual Cost	\$ 97,630
Depreciation	<u>43,100</u>

TOTAL \$140,730

*See
I TR*

December 18, 1975

Mr. Jack Pearson
Engineering Department
City of Kinston
P. O. Box 339
Kinston, N. C. 28501

Dear Mr. Pearson:

Mr. Wood and I enjoyed our visit with you yesterday. Your concern for returning a part of our solid waste stream to a useful purpose is very interesting. We are seeking ways to reduce the amount of solid waste that must be disposed of by recovering a part of it as a resource.

I have not had the time to study the material you presented to us yesterday but will in the very near future.

It would be my recommendation that some of you that are studying the problem visit one of the sites that have implemented the type program that you are considering. There is nothing like an on-site visit to discuss the system with those that know the operation conditions.

You may also want to contact Mr. Harvey W. Gershman, National Center for Resource Recovery, Inc., 1211 Connecticut Avenue N. W., Washington, D. C. 20036 -- telephone 202-223-6154 for information.

Sincerely,

O. W. Strickland, Supervisor
Solid Waste Management Unit
Solid Waste & Vector Control Branch
Sanitary Engineering Section

OWS/ct

cc: Mr. Fred J. Wood

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JHK

October 24, 1975



Mr. Charles A. Lilley, Planner
Dept. of Planning and Research
City of Kinston
P.O. Drawer 339
Kinston, North Carolina 28501

Dear Mr. Lilley:

In reply to your letter of October 14, 1975, requesting information regarding funds for energy recovery study. EPA has \$350,000 for this purpose and expects to award several grants from these funds by July 1, 1976. These are the only funds available from the Federal Environmental Protection Agency for this type of project.

I am enclosing a copy of the pre-application instructions for resource recovery implementation grants. Grants will be awarded by the competitive selection process.

I would like to suggest that you contact Mr. Sidney H. Usry, Branch Head, Solid Waste and Vector Control Branch, Dept. of Human Resources, P.O. Box 2091, Raleigh, North Carolina, 27602, regarding possible assistance that may be available at the State level for this type of project.

If we can be of further assistance, please contact us.

Sincerely yours,

James H. Scarbrough, P.E.
Chief
Residuals Management Branch

enclosure

cc: Mr. Sidney H. Usry ✓

*Lenoir
LTK*

October 23, 1975

Mr. Charles A. Lilley, Planner
Department of Planning and Research
City of Kinston
P. O. Drawer 339
Kinston, N. C. 28501

Dear Mr. Lilley:

Your letter of October 14, 1975, with reference to financial resources has been referred to me for reply.

As of this date, I know of no source of funds for supporting the type of program you described in your letter.

I have discussed the program you outline with Mr. Jack Pearce of the Kinston Engineering Department.

If we receive information on possible sources of funds, we will notify you.

Please let us know if we can be of assistance.

Sincerely,

O. W. Strickland, Supervisor
Solid Waste Management Unit
Solid Waste & Vector Control Branch
Sanitary Engineering Section

OWS/ct

cc: Mr. Fred J. Wood

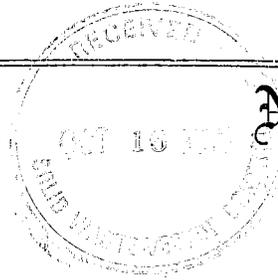


City of Kinston

P. O. Drawer 339

North Carolina

28501



October 14, 1975

SIMON C. SITTERSON, JR.
MAYOR

ROBERT G. BRIGMAN
CITY MANAGER

VERNON H. ROCHELLE
CITY ATTORNEY

Department of Human Resources
Health Services Division
Solid Waste and Vector Control
325 N. Salisbury Street
Raleigh, N. C. 27611

Dear Sir:

The City of Kinston is presently involved in a study for the conversion of solid waste into useable energy.

Our examination is based upon the reasoning of a limited future for sanitary landfills and the growing need to replace the use of fossil fuels in view of our expanding use of energy.

The incineration of solid waste is seen here as a resource that is not tapped to extent that could be.

A part of our study concerns the available financial resources in the State and Federal government for a project that can be a positive savings in energy and the environment by an elimination of a sanitary landfill with the incineration of our solid waste.

We seek your advice and guidance in the search for either complete or partial support for the funding of this type of project.

Yours truly,

Charles A. Lilley, Planner
Dept. of Planning and Research

CAL:dt

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SR

October 3, 1975

Mr. Jack Pierson
City of Kinston
City Engineers Office
Kinston, NC 28501

Dear Mr. Pierson:

After my telephone conversation with you concerning a list of approved incinerators, I realized that since the responsibility for incinerator design and approval is with the Office of Environmental Management, N. C. Department of Natural and Economic Resources, that it would be proper that you request their latest approved systems. The list that I have is several years old and I am sure that I might be providing you with inaccurate material. I suggest that you write Mr. James A. McGolman since he is responsible for air pollution and does issue the approvals.

Very truly yours,

Sidney H. Usry, Head
Solid Waste & Vector Control Branch
Sanitary Engineering Section

SHU:bm

DEPARTMENT OF HUMAN RESOURCES

DIVISION OF HEALTH SERVICES

RALEIGH



April 15, 1975

Mr. Robert Earl Smith
Route 7, Box 115
Kinston, North Carolina

Dear Mr. Smith:

I am writing in reference to our recent conversation regarding your dumping of solid waste on your property in Kinston adjacent to the Neuse River.

As we discussed at the time of my visit, it is unlawful for a solid waste collector to dispose of waste collected from customers in an open dump on his own property. You stated that you would either clean the waste up or have it covered on the property. Either method of correcting the open dump is acceptable to this office.

Your prompt attention regarding this matter will be appreciated as we will be checking the site in the near future for compliance.

If I can ever be of any assistance to you and your solid waste collection operation, please contact me.

Yours truly,

BWM

Billy W. Morris, District Sanitarian
Solid Waste Management Unit
Solid Waste & Vector Control Branch

lwa

cc: O. W. Strickland
Ken Murphy
Lenoir Co. Health Dept.

Lenoir
JWR

May 16, 1974

Mr. G. R. Rouse, Jr.
Assistant Administrator
The Caswell Center
Box 909
Kinston, N. C.

Dear Mr. Rouse:

Your letter of May 14, 1974, has been received.

Solid waste disposal is the responsibility of the Division of Health Services, not the office of Water and Air. All solid waste disposal sites in North Carolina must be closed or operated as a sanitary landfill which includes no burning on or before July 1, 1974.

Enclosed you will find a copy of the law as well as a copy of the Rules and Regulations. Your site is covered under Section XIII.

Thanking you in advance for your cooperation, and if there are questions, please let us know.

Sincerely,

O. W. Strickland, Supervisor
Solid Waste Management Unit
Solid Waste & Vector Control Branch
Sanitary Engineering Section

OWS/ct
Enclosure

cc: Mr. W. J. Gamble, Jr.
Mr. Fred Wood
Lenoir County Health Department

Ennis
ESR

May 7, 1974

Mr. E. L. Long
Environmental Control Specialist
E. I. du Pont de Nemours & Company, Inc.
Kinston Plant
Textile Fibers Department
Kinston, North Carolina 28501

Dear Mr. Long:

This agency is agreeable to provide a temporary variance from the "Rules and Regulations Providing Standards for Solid Waste Disposal" until such time as your plans can be finalized. The operation of the proposed site at the plant landfill shall be in accordance with the recommendations made by Mr. Fred J. Wood, District Sanitarian.

It will be appreciated if you will notify this office as soon as your contract can be completed and your operation at the Kinston plant can be closed.

If this office can provide you with additional assistance, I shall appreciate hearing from you.

Very truly yours,

Sidney H. Usry, Head
Solid Waste & Vector Control Branch
Sanitary Engineering Section

SHU:bm
cc: Mr. Fred J. Wood



E. I. DU PONT DE NEMOURS & COMPANY
INCORPORATED

KINSTON PLANT
KINSTON, NORTH CAROLINA 28501

TEXTILE FIBERS DEPARTMENT

April 30, 1974

Mr. Sidney H. Usry
Sanitation Engineering Division
State Board of Health
P. O. Box 2091
Raleigh, N.C. 27611

Dear Mr. Usry:

Please inform us of the information needed and send us any forms required to obtain a temporary permit (90 days) for solid waste disposal by landfill operations.

Kinston is currently using a landfill operation to dispose of non-burnable items and waste in excess of the incinerator's capacity. Mr. F. Wood of your Greenville office inspected this operation March 11, 1974 and found it acceptable with minor recommendations.

Our plans called for closing out the on plant landfill and contracting this waste disposal in a State approved landfill owned by the contractor starting 7/1/74.

However, due to delays in equipment delivery, it now appears we will not meet the 7/1/74 deadline. We propose using our current landfill operation under a temporary permit until we can convert to the contracted operation. Best timing for completion appears to be 10/1/74.

Sincerely,

E. L. Long
Environmental Control
Specialist

ELL/lww

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May 3, 1974

Mayor Harold Stroud
Town of Pink Hill
P. O. Box 361
Pink Hill, N. C. 28572

Dear Mayor Stroud:

In reviewing our records in preparation for July 1, 1974 when a solid waste disposal site must meet the requirements of the Division of Health Services Rules and Regulations or be properly closed, I find that Pink Hill continues to use their dump.

This office requests that it be informed as to what plan the Town will implement prior to July 1, 1974.

Thanking you in advance for your cooperation, and if we can be of assistance, please let us know.

Sincerely,

O. W. Strickland, Supervisor
Solid Waste Management Unit
Solid Waste & Vector Control Branch
Sanitary Engineering Section

OWS/ct
cc: Mr. Fred Wood
Lenoir County Health Dept.

April 5, 1974

Mr. Hugh Stroud
Auditor
County of Lenoir
Courthouse
Kinston, N. C. *JJA*

Dear Mr. Stroud:

The report that you and the County Board requested is enclosed.

If Mr. Wood or I can be of any assistance or if there are questions, please let us know.

Sincerely,

O. W. Strickland, Supervisor
Solid Waste Management Unit
Solid Waste & Vector Control Branch
Sanitary Engineering Section

OWS/ct

cc: Mr. W. R. Gray
Mr. Fred Wood

Solid Waste Management Program in Lenoir County

There are three approved sanitary landfills in Lenoir County. Two are operated by the municipalities of Kinston and La Grange and the other operated by Carter-Hill, a private company.

The municipalities provide house-to-house collection once or twice per week.

House-to-house collection in the rural areas is provided by private collectors for a fee.

A rural container system is operated in the County by Carter-Hill, under contract with the County. The containers are owned by the County, with Carter-Hill providing the collection service. The waste from the container system is placed at the Carter-Hill landfill.

An industrial solid waste survey was conducted in February 1974 by Mr. Fred J. Wood, District Sanitarian, Division of Health Services, and Mr. W. R. Gray, Sanitarian Supervisor, Lenoir County Health Department.

The results of the survey revealed that 585 cu. yds. of industrial solid waste per week was placed at two of the landfills, Kinston receiving 417 cu. yds. and Carter-Hill receiving 168 cu. yds.

Observations:

Disposal: The municipal landfills are being operated in accordance with Division of Health Services Rules and Regulations. The site operated by Carter-Hill is not being operated in accordance with the plans approved or in compliance with the daily requirements for a sanitary landfill. This site will have the operational approval revoked within a very reasonable time unless the operation is brought into full compliance.

Collection: The municipal collections seem adequate. The rural container system is well suited for Lenoir County. The local people like the container system and have received it well. Mr. Gray states that much of the roadside dumping has been eliminated since the container system was implemented. The major complaint received was that the containers are not emptied on schedule and the container sites are not cleaned routinely. From an on-site inspection of container sites, the above stated complaint seems justified.

Recommendations:

Disposal: The City of Kinston and Lenoir County operate one sanitary landfill to serve the total population of the County.

If it is not feasible at this time for the County and City to work together then it is recommended that the County own a landfill site for the County and operate it themselves or under contract with a private company.

An up-to-date estimated capital investment and annual cost is provided so the County will have some bases for deciding what program to implement.

Collection: The municipalities and private collectors continue to provide house-to-house collection service.

The rural container system can be continued in those areas where house-to-house collection is not available or is not economically feasible.

Proper supervision must be provided the container system so that the containers will be emptied as needed and the sites kept clean.

If a private company is to operate the container system and they have the capability of providing large container service, then the large containers should be considered at the more heavily used sites.

An up-to-date estimated capital investment and annual operating cost will also be included for the small container system.

Estimated Capital Investment and Annual Operating Cost
for a Container System
to serve Lenoir County as recommended.

<u>Item</u>	<u>Initial Cost</u>	<u>Est. Life</u>	<u>Annual Cost</u>
Container Truck (30-35 cu.yd.)	\$35,000	5 years	\$ 7,000
Containers (on hand)		10 years	2,500
Truck Operator			8,000
*Assistant Truck Operator (1 mo.)			500
Fuel & Repair (Est. 25,000 miles @ 40¢/mile)			10,000
Rental on Back-Up Equipment			1,000
Insurance			500
Fringe Benefits @ 15%			1,275
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	\$35,000		\$30,775

*Sick leave and vacation.

Assistant operator at landfill could provide this service if County operated landfill.

Estimated Capital Investment and Annual Operating Cost
for a Sanitary Landfill
to serve rural Lenoir County

<u>Item</u>	<u>Initial Cost</u>	<u>Est. Life</u>	<u>Annual Cost</u>
Site (50 acres @ \$1000/acre)	\$ 50,000	20 years	\$ 2,500
Site Preparation (Access Road, Plans and etc.)	10,000	20 years	500
High-Lift Loader with Multi-Purpose Bucket (Large)	50,000	5 years	10,000
Fuel & Repair (1000 hrs. @ \$5/hr.)			5,000
Equipment Operator & Manager			8,400
Assistant Operator & Gateman			6,000
Structure to House Equipment & Provide Office Space	10,000	20 years	500
Rental on Back-Up Equipment			1,000
Misc. (Trenching, Road Maintenance and etc.)			8,000
Fringe Benefits @ 15%			2,160
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	\$120,000		\$44,060

*Leav
LW*

November 1, 1973

Mr. John Burroughs
1301 Greenbrier Road
Kinston, North Carolina 28501

Dear John:

I have requested that Mr. O. W. Strickland, Supervisor, Solid Waste Management Unit, plan to speak to the Kinston Engineers Club on January 21, 1974. Mr. Strickland's subject will be the "Status of the Solid Waste Management Program in North Carolina" and I am sure that you will enjoy his presentation.

Mr. Strickland will plan to arrive at Kings Barbecue at approximately 6:30 P.M. on January 21, 1974. We appreciate the opportunity to cooperate with your club.

Very truly yours,

Marshall Staton, Chief
Sanitary Engineering Section

SHU:bm

cc: Mr. O. W. Strickland

Lewis

JLR

July 24, 1972

Mr. E. L. Long
Environmental Control
E. I. du Pont de Nemours & Company, Inc.
Kinston Plant
Textile Fibers Department
Kinston, North Carolina 28501

Dear Mr. Long:

The proposal that you submitted to this office would apparently place the Kinston Plant of the E. I. du Pont de Nemours & Company, Inc., in compliance so far as operational procedures are concerned. However, I think additional information will be required in order that you might be in full compliance with our regulations. I am requesting that a member of my staff, Mr. Fred J. Wood, District Sanitarian, visit the plant and provide you with the information that will be necessary to meet these requirements. Mr. Wood will notify you upon his planned visit to inspect the facilities being operated by the Kinston Plant.

Very truly yours,

Sidney H. Uery, Chief
Solid Waste & Vector Control Section
Sanitary Engineering Division

SHU:ba
cc: Mr. Fred J. Wood



E. I. DU PONT DE NEMOURS & COMPANY
INCORPORATED

KINSTON PLANT
KINSTON, NORTH CAROLINA 28501

TEXTILE FIBERS DEPARTMENT

RECEIVED

July 17, 1972

JUL 20 1972

Mr. S. Usry
Chief, Solids Waste & Vector Control Section
North Carolina State Board of Health
Raleigh, North Carolina 27611

SANITARY ENGINEERING
DIVISION

Dear Mr. Usry:

As I stated to you by telephone on 6/23/72, I am submitting the procedure used by the Kinston Plant for solid waste disposal.

We generate approximately 45,000 pounds of solid wastes each day at this site. Of this amount, about 35,000 pounds are burned in a closed cyclone destructor incinerator. This poundage includes non-metallic burnables such as polyester spun and drawn wastes, paper trash, wood and garbage. The incinerator has been in operation for two years and it has been inspected by the North Carolina Air Quality Section, Department of Economics and Natural Resources.

About once per month, it is necessary to remove the incinerator from service (24 hours maximum down time) for maintenance and cleanout. During this period of time, a sanitary land-fill facility (trench about 11 feet deep, 22 feet wide and 250 feet long) is used. In our opinion, it is in compliance with Bulletin #411 issued by your Department in April, 1971.

The remaining 10,000 pounds of solid wastes include such items as metal drums, cans, fiber drums with metal ends, glass and fiberglass products, pipe and sheetmetal parts, asbestos insulating materials, and large pieces of polyester polymers.

These wastes are dumped on the top of a natural incline of earth (\approx 50 feet high) and bulldozed down the slope. Prior to converting our power facilities to natural gas and oil (1971), coal ashes were disposed of in this manner. The disposal area is located on Company property about 4000 feet southeast of the main factory building.

July 11, 1972

We plan to terminate all waste dumping at this incline area by 7/1/73. Plans are now active to recycle many of these waste products. Those minor wastes that cannot be recycled will be placed in the waste disposal trench. The incline area will be covered by a layer of earth at the end of the termination date.

We feel that the trench disposal procedures for solids wastes are in compliance with the State rules and regulations. If the termination date for closing the incline area does not meet your approval, please advise me or call me on telephone number 919-527-0111-445. If your Department wishes to inspect our disposal facility, please call me so that I can arrange to be available.

Sincerely,



E. L. Long
Environmental Control

ELL/jwg

Lewis
JK

July 6, 1972

Mr. Fred J. Wood
District Sanitarian
3205 South Memorial Drive
Greenville, North Carolina 27334

Dear Mr. Wood:

I have been requested by Mr. Ray Jones, Borden Chemical Company (Smith-Douglas), Post Office Box 1455, Kinston, North Carolina, to have a member of my staff visit the plant to discuss disposal of wastes from their manufacturing operations. Mr. Jones has requested that you give him prior notification in order that he might have officials from Norfolk present during the discussion of this matter.

Very truly yours,

Sidney H. Usry, Chief
Solid Waste & Vector Control Section
Sanitary Engineering Division

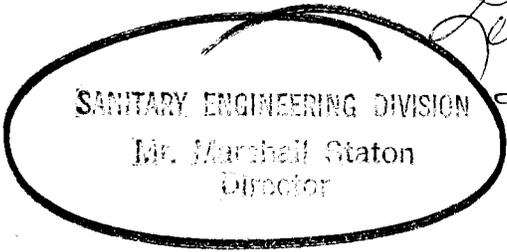
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cc: Mr. Ray Jones



E. I. DU PONT DE NEMOURS & COMPANY
INCORPORATED

KINSTON PLANT
KINSTON, NORTH CAROLINA 28501

TEXTILE FIBERS DEPARTMENT



March 9, 1972



Dr. J. Koomen
Director
N. C. State Board of Health
P. O. Box 711
Raleigh, North Carolina 27602

Dear Dr. Koomen:

I understand that your Department recently revised the rules and regulations for solids waste disposal in North Carolina (Bulletin #411, April 1971).

I would appreciate it if you would send me five copies. We now have four plants in North Carolina, and copies are desired for each plant and my use.

Thank you for your assistance.

Sincerely,

E. L. Long
Environmental Control

ELL/jwg

5 copies sent 3-13-72

RECEIVED

MAR 14 1972

SANITARY ENGINEERING
DIVISION

STATE OF NORTH CAROLINA
DEPARTMENT OF WATER AND AIR RESOURCES

ROBERT W. SCOTT
GOVERNOR

P. D. DAVIS
J. NELSON GIBSON, JR.
WAYNE MABRY
HUGH L. MERRITT
LEE L. POWERS
J. AARON PREVOST
W. GRADY STEVENS



S. VERNON STEVENS, JR.
CHAIRMAN

P. GREER JOHNSON
VICE-CHAIRMAN

RAYMOND S. TALTON
JOSEPH E. THOMAS
GLENN M. TUCKER
H. W. WHITLEY

GEORGE E. PICKETT, DIRECTOR
TELEPHONE 829-3003

E. C. HUBBARD, ASST. DIRECTOR
TELEPHONE 829-3006
RALEIGH, N. C. 27611
P. O. Box 27048

In Reply Refer To:
WQ71JLJ

May 4, 1971

TO: Mr. Randolph Hendricks
Planning Coordinator
State Planning Division
Department of Administration
Raleigh, North Carolina

FROM: Mr. D. L. Coburn, Chief *D.L.C.*
Water Quality Division
Department of Water and Air Resources

SUBJECT: Clearinghouse Notification No. 71-0513

Subject notification has to do with proposed solid waste facilities for Lenoir County.

The North Carolina State Board of Health has primary jurisdiction in connection with approval of solid waste facilities and this Department has no comment on these facilities at this time.

cc: Mr. T. F. Armstrong
Mr. Joe L. Hudson
Mr. Marshall Staton ✓
Mr. C. R. Smart

RECEIVED

MAY 6 1971

SANITARY ENGINEERING
DIVISION