

# PERMITTING AND OPERATIONS MANUAL

## SOLID WASTE MANAGEMENT TREATMENT AND PROCESSING FACILITY

**SCANNED**

*5/10/16 Carmen Johnson*



*for:*

**Slater Industries  
Valley Stream Road  
Winston-Salem, NC  
Permit No. 34-22**

**April 2015**

*Prepared by:*

Allied Design, Inc.  
4720 Kester Mill Road  
Winston-Salem, NC 27103  
(336) 765-2377  
Project Number ALS050/7453

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## I. EXECUTIVE SUMMARY

### A. Purpose

Allied Design, Inc. was retained by Slater Industries to prepare a Treatment and Processing (T&P) Facility permit application. The purpose of this manual is to provide the permitting application and information necessary for approval of a permit for the T&P facility in a comprehensive format. This application has been prepared to meet the requirements of and to ensure compliance with the North Carolina Administrative Code, 15 NCAC 13B. 0563 through 0566 (the rules).

The Slater Industries T&P facility consists of approximately 4.8 acres of active area and is located off of Valleystream Road in Winston-Salem, Forsyth County, North Carolina. The property is currently identified as Tax Block 4428, Lot 5V.

The T&P facility is operated on a former Land Clearing and Inert Debris (LCID) landfill that was permitted by the North Carolina Department of Environment and Natural Resources (NCDENR), Division of Waste Management, Solid Waste Section. The permit number was FC 34-90-11.

### B. Summary

This permitting and operations manual attempts to compile the complete permitting requirements of the NCDENR Division of Waste Management and provides a complete summary and record of the documentation. This manual should be annually and periodically updated to reflect new permitting requirements and operational changes.

## **II. SITE MAPS AND INFORMATION**

3995000m N

LEWISVILLE 2.7 MI.

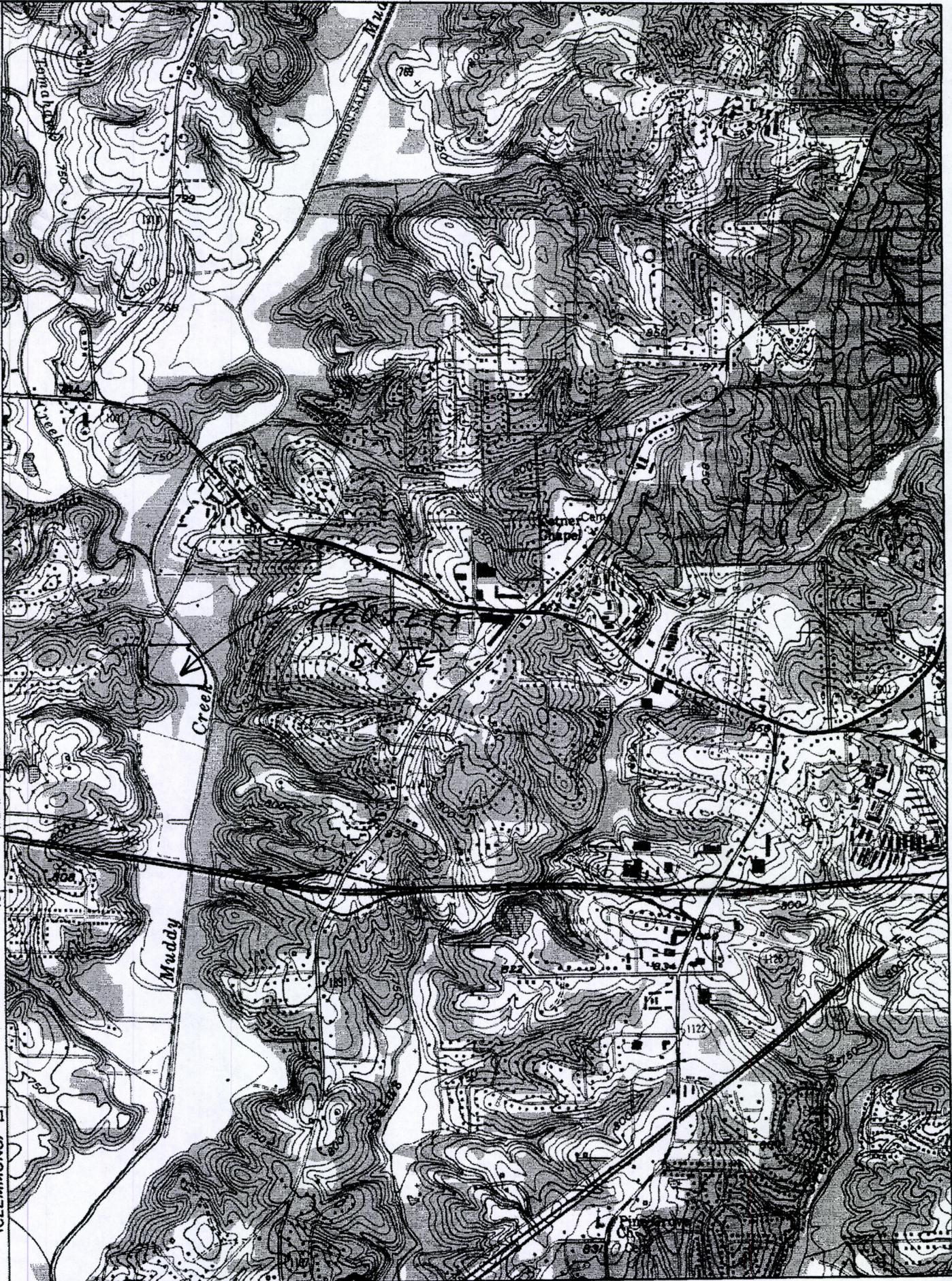
3964

5

YADKINVILLE 16 MI.

3992

4956 (11 SW (CLEMMONS))

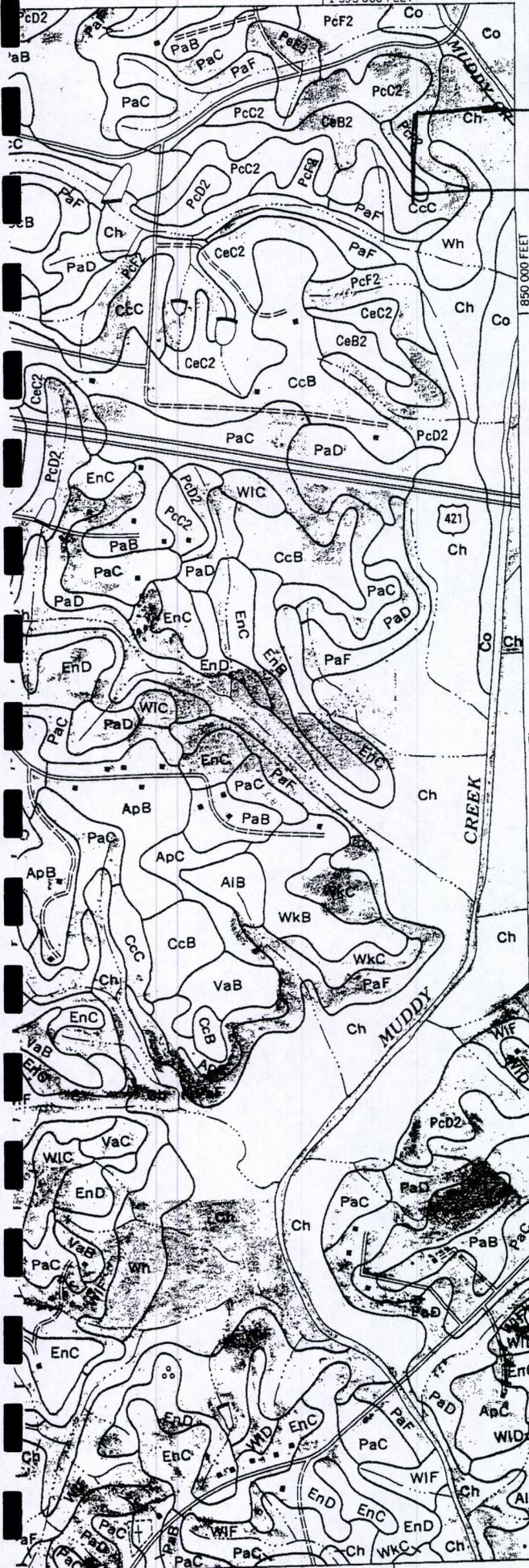


Name: WINSTON-SALEM WEST  
Date: 8/23/102  
Scale: 1 inch equals 2000 feet

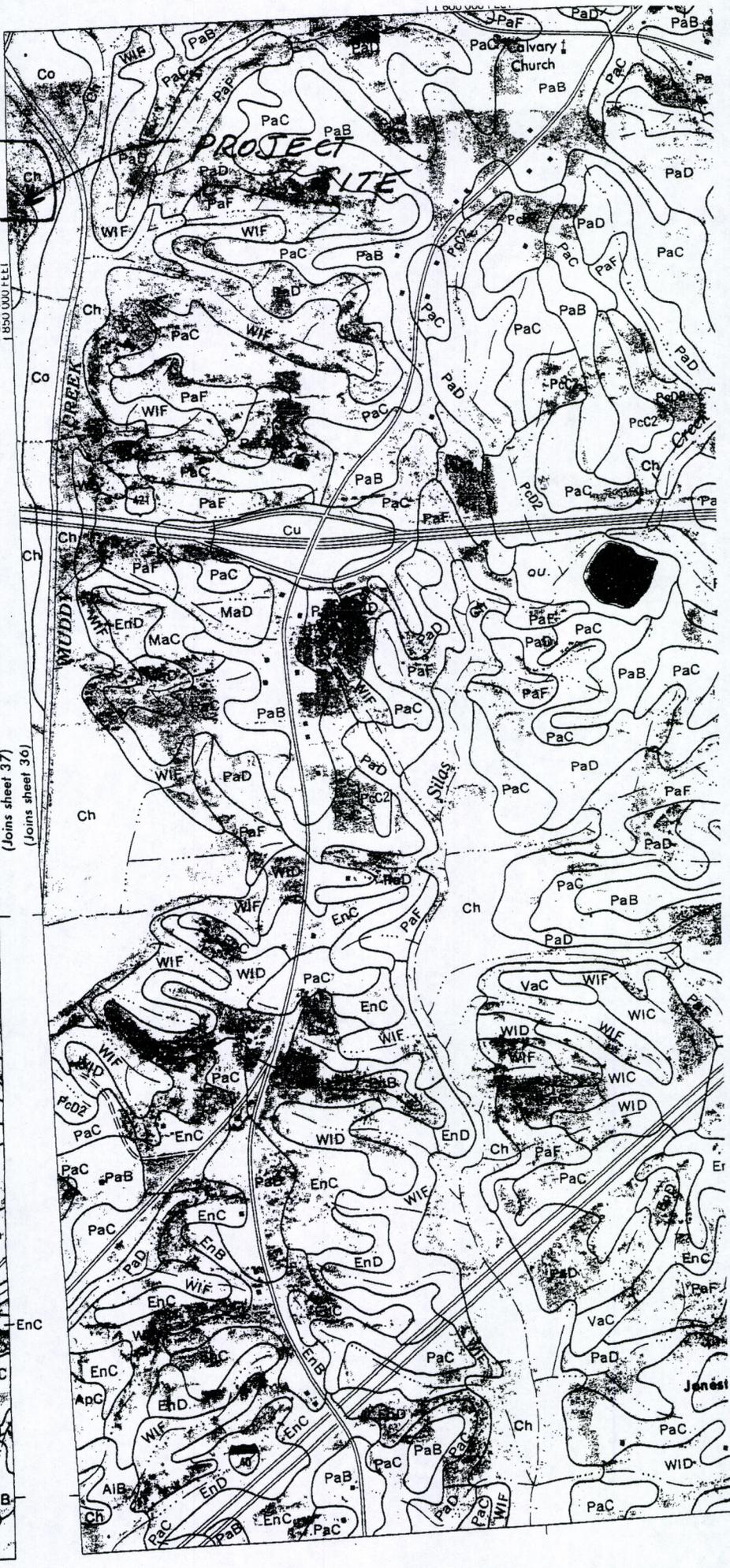
Location: 036° 05' 00.1" N 080° 21' 12.3" W  
Caption: SLATER INDUSTRIES  
LCID LANDFILL  
AUGUST 2002



1:595,000 FEET



(Joins sheet 37)  
(Joins sheet 36)



PROJECT SITE

Calvary Church

Jonest

1028067

THIS DEED DRAWN BY Clare J. Goodson, atty 33  
 Made by Frank S. Slater, Pt # 2 Greenville, N.C.

THIS DEED, Made this the 21<sup>st</sup> day of January, 1972  
 by WILLIAM T. ALSAUGH and his wife, THEO S. ALSAUGH of Richmond, Virginia

part 1<sup>st</sup> of the first part, to FRANK S. SLATER and his wife, BETTIE P. SLATER

Witnesseth That the said part 1<sup>st</sup> of the first part, in consideration of (\$ 100.00 o.v.c. ) ONE HUNDRED DOLLARS  
 and other valuable considerations to them paid by the said part 1<sup>st</sup> of the second

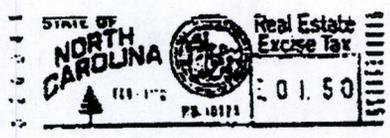
part, the receipt of which is hereby acknowledged, has/have bargained and sold, and by them presents do

bargain, sell and convey unto the said part 1<sup>st</sup> of the second part and their heirs a tract or parcel of  
 land in the County of Forsyth and State of North Carolina, in \_\_\_\_\_ Township, and bounded as follows:

**TRACT NO. 1:** Being known and designated as Lot Number 4F, as shown on the Map of Valleystream Farms, said map being recorded in Plat Book 20, at page 113(1) (2) in the office of the Register of Deeds of Forsyth County, North Carolina, reference to said Map being made for a more definite and particular description.

**TRACT NO. 2:** BEGINNING at an iron stake, the Southeast corner of Lot Number 4E as shown on the Map of Valleystream Farms as recorded in Plat Book 20, page 113 (1)(2) in the office of the Register of Deeds of Forsyth County, North Carolina; running thence from said beginning point with the line of Billy Gray Hege (Deed Book 861, page 499) South 86° 11' East 491.8 feet to an iron stake; thence continuing South 86° 11' East approximately 25 feet to iron stake in Western bank of Muddy Creek; thence following the course of the Western bank of said creek, being in a general course of South 31° 16' East to a point in the North line of Lot Number 5 as shown on the above mentioned map extended to the bank of the creek; thence North 86° 06' West several feet to an iron stake in the North line of Lot Number 5; continuing thence with the North line of Lot Number 5, North 86° 06' West 362 feet to a point, the Southeast corner of Lot 4F; thence with the East line of Lot No. 4F, North 3° 49' East 100 feet to the point of BEGINNING, and being that strip of land lying East of Lot No. 4F as shown on above referred map, between the tracts of Billy Hege and Frank Slater.

Subject to restrictive covenants as recorded in Deed Book 501, page 109, Forsyth County Registry.



The above land was recorded in Deed Book \_\_\_\_\_ Page \_\_\_\_\_  
**DEED 1028 PNE 677**

10280671

TO HAVE AND TO HOLD the above said part or parcel of land all privileges and appurtenances thereto belonging to the said part I, I, of the county and their heirs and assigns forever And the said part I, I, of the said part do acknowledge that they are well of mind and memory and have the right to convey the same to its single, that the same are free from encumbrances; and that they well warrant and defend the said title to the state against the claims of all persons whatsoever.

IN TESTIMONY WHEREOF the said part I, I, of the said part HAVE hereunto set their hands and seals

(Said) William T. Alspaugh (Said)

(Said) Thos. S. Alspaugh (Said)

STATE OF VIRGINIA - Richmond County Clerk  
I, Richard E. Edg, a Notary Public of Richmond City, Virginia, do hereby certify that WILLIAM T. ALSPAUGH and wife, THOS. S. ALSPAUGH

appeared before me on this day and acknowledged the execution of the foregoing deed of conveyance to the said part I, I, of the said part do hereby certify that they are well of mind and memory and have the right to convey the same to its single, that the same are free from encumbrances; and that they well warrant and defend the said title to the state against the claims of all persons whatsoever.

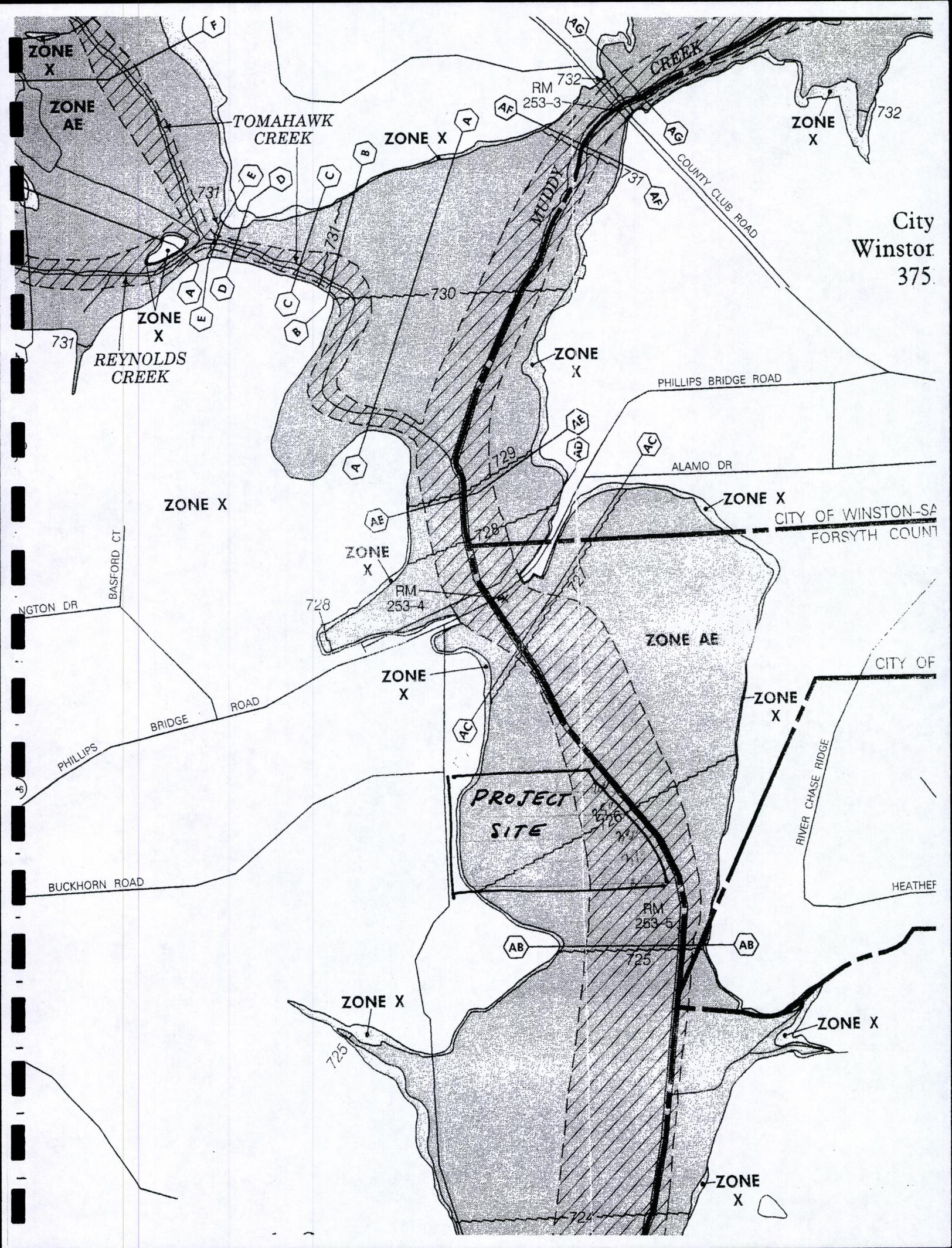
STATE OF NORTH CAROLINA - Forsyth County  
I, Richard E. Edg, a Notary Public of Forsyth County, North Carolina, do hereby certify that WILLIAM T. ALSPAUGH and wife, THOS. S. ALSPAUGH

appeared before me on this day and acknowledged the execution of the foregoing deed of conveyance to the said part I, I, of the said part do hereby certify that they are well of mind and memory and have the right to convey the same to its single, that the same are free from encumbrances; and that they well warrant and defend the said title to the state against the claims of all persons whatsoever.

STATE OF NORTH CAROLINA - Forsyth County  
The foregoing (or amended) certificate of Richard E. Edg (Notary Public) is hereby certified to be correct. This is the 1st day of Jan A.D. 1972.  
Filed for 3.00 paid  
Public Print, Secretary of State  
Ruth Barron

TO  
WILLIAM T. ALSPAUGH and wife  
THOS. S. ALSPAUGH  
FRANK E. SLATER and wife  
BETTIE F. SLATER

PRESENTED FOR REGISTRATION JAN 26 1972 4 26 PM '72  
EVALUATORS REGISTER OF DEEDS FORSYTH CO., N.C.  
J. B.  
DEED 1028 REC 678



City  
Winston  
375

ZONE  
X

ZONE  
AE

TOMAHAWK  
CREEK

ZONE X

MUDDY  
CREEK

ZONE  
X

RM  
253-3

COUNTY CLUB ROAD

ZONE  
X

REYNOLDS  
CREEK

ZONE  
X

PHILLIPS BRIDGE ROAD

ALAMO DR

ZONE X

ZONE X

CITY OF WINSTON-SA  
FORSYTH COUNT

ZONE  
X

728

RM  
253-4

ZONE AE

CITY OF

NGTON DR

BASFORD CT

PHILLIPS  
BRIDGE ROAD

ZONE  
X

PROJECT  
SITE

RIVER CHASE RIDGE

HEATHEP

BUCKHORN ROAD

RM  
283-5

ZONE X

ZONE X

ZONE  
X

725

725

724

732

F

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AD

AC

AE

AC

AC

AB

AB

### **III. CORRESPONDENCE AND DOCUMENTATION**



January 20, 2005

Frank S. Slater  
5330 Shallowford Road  
Lewisville, NC 27023

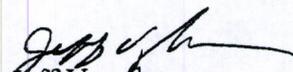
City Hall South  
100 E. First St., Suite 328  
P.O. Box 2511  
Winston-Salem, NC 27102  
Tel 336.727.2628  
Fax 336.727.2792  
[www.cityofws.org](http://www.cityofws.org)

Re: Valleystream Road Landfill

Dear Mr. Slater:

Ronnie Grubbs and I have reviewed the issue of the separation, processing, storage, or wholesale sale of materials on the site of your land clearing inert debris landfill on Valleystream Lane, we have determined that since the landfill was established prior to December 31, 1994, no Special use Permit from the Forsyth County Board of Adjustments is required. Therefore, the separation, processing, storage, or wholesale sale of materials on this site is a legal non-conforming use and exempt from the setback requirements currently imposed by the Winston-Salem/Forsyth County Unified Development Ordinance.

If you have any further questions, feel free to contact me at (336) 727-2819.

  
Jeff Vaughn  
Zoning Inspector

Cc: File





City Hall South  
100 E. First St., Suite 328  
P.O. Box 2511  
Winston-Salem, NC 27102  
Tel 336.727.2628  
Fax 336.727.2792  
[www.cityofws.org](http://www.cityofws.org)

November 3, 2004

Mr. Ted Lyon, Supervisor  
Composting and Land Application Branch  
N.C. Dept. of Environment and Natural Resources  
1646 Mail Service Center  
Raleigh, NC 27699-1646

Dear Mr. Lyon:

Please be advised that the property located on Valleystream Road, Winston-Salem, being Tax Block 4428, Tax Lot 005V, Slater Recycling and Landfill, is not required by local regulations to have onsite stormwater controls.

Sincerely,

A handwritten signature in black ink, appearing to read "Jeffrey P. Kopf". The signature is fluid and cursive.

Jeffrey P. Kopf  
Erosion Control Engineer





May 26, 2004

Frank S. Slater  
5330 Shallowford Road  
Lewisville, NC 27023

Re: Valleystream Lane

Dear Mr. Slater:

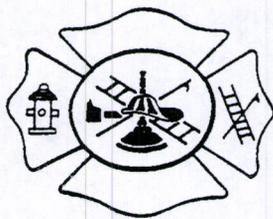
After reviewing the issue of the separation, processing, storage, or wholesale sale of materials on the site of your land clearing inert debris landfill on Valleystream Lane, I have determined that since the landfill was established prior to December 31, 1994, no Special Use Permit from the Forsyth County Board of Adjustments is required. Therefore, the separation, processing, storage, or wholesale sale of materials on this site is a legally conforming use.

If you have any further questions, feel free to contact me at (336) 727-2819.

Jeff Vaughn  
Zoning Inspector

City Hall South  
100 E. First St., Suite 328  
P.O. Box 2511  
Winston-Salem, NC 27102  
Tel 336.727.2628  
Fax 336.727.2792  
[www.cityofws.org](http://www.cityofws.org)





## LEWISVILLE FIRE DEPARTMENT

216 Lewisville-Clemmons Road  
Lewisville, North Carolina 27023  
Phone: (336) 945-5983



July 29, 2002

To Whom It May Concern:

Lewisville Fire Department will respond to all calls for service from Slater Industries Landfill and Recycling located at 945 Valley Stream Road, Lewisville, NC.

Respectfully yours,

A handwritten signature in cursive script that reads "Wes Lail".

Chief Wes Lail  
Lewisville Fire Department



# CITY OF WINSTON-SALEM

## INSPECTIONS DIVISION

100 E. FIRST STREET, SUITE 328 • WINSTON-SALEM, NORTH CAROLINA 27101  
FAX 336-727-2792

**November 8, 2001**

**Allied Land Surveying Company, P.A.  
4720 Kester Mill Road  
Winston-Salem, NC 27103**

**Re: Frank Slater (LCID)  
Block 4428, Lots 4F, 4Z & 5V  
Forsyth County Tax Maps**

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**To Whom It May Concern:**

**As of this date the zoning maps in the Inspections Division show the above referenced property to be zoned Residential Single Family-9 (RS-9) which does allow Landfills, Land Clearing/Inert Debris (LCID).**

**If we can be of further assistance, please call me at (3336) 727-2625.**

**Sincerely,**

**Richard Little  
Permit Office Supervisor**

**RL/vmp**



DEPARTMENT OF THE ARMY  
WILMINGTON DISTRICT, CORPS OF ENGINEERS

P.O. BOX 1890  
WILMINGTON, NORTH CAROLINA 28402-1890  
October 5, 2001

ALS050

IN REPLY REFER TO

Regulatory Division

Action ID No. 200220052

Mr. Joe Slater  
5334 Shallowford Road  
Lewisville, North Carolina 27023

Dear Mr. Slater:

Reference is made to our meeting of September 12, 2001 on your property located on the south side of Phillips Bridge Road, east of Valleystream Road, in Lewisville, Forsyth County, North Carolina. Also attending the meeting were Mr. Richard Bennett and Mr. Steve Causey with Allied Design, Inc. The site is adjacent to Muddy Creek in the Yadkin River Basin. The purpose of the meeting was to review the site for potential wetland impacts associated with the existing land clearing and inert debris landfill located on your property.

During the meeting it was determined that no waters of the U.S. have been disturbed as a result of the activities on site. Furthermore, you indicated that you have no future plans to expand the boundaries of the existing operation. Accordingly, we do not anticipate any future impacts associated with this project.

Should your plans change, please be aware that there may be waters of the U.S., including wetlands, located outside of the current boundaries of the operation on your property that are subject to our regulatory authority pursuant to Section 404 of the Clean Water Act. If you do pursue expansion of the facility, we recommend that a more thorough review of wetlands and waters on your property be performed and forwarded to our office for review and comment, as well as a determination of DA permit eligibility.

Should you have any further questions related to DA permits for this project, please contact me at 919-876-8441, extension 26.

Sincerely,

Todd J. Tugwell  
Regulatory Specialist,  
Raleigh Field Office

Copy Furnished:

Mr. Steve Causey  
Allied Design, Inc.  
4720 Kester Mill Road  
Winston-Salem, NC 27103

North Carolina  
Department of Environment and Natural Resources  
Division of Parks and Recreation

Michael F. Easley, Governor  
William G. Ross Jr., Secretary  
Philip K. McKnelly, Director



ALS050

September 5, 2001

Mr. Steve M. Causey  
Allied Design, Inc.  
4720 Kester Mill Road  
Winston-Salem, NC 27103

Subject: Land Clearing/Inert Debris Landfill, Lewisville, Forsyth County

Dear Mr. Causey:

The Natural Heritage Program has no record of rare species, significant natural communities, or priority natural areas at the site nor within a mile of the site.

You may wish to check the Natural Heritage Program database website at [www.ncsparks.net/nhp/search.html](http://www.ncsparks.net/nhp/search.html) for a listing of rare plants and animals and significant natural communities in the county and on the topographic quad map. Please do not hesitate to contact me at 919-715-8687 if you have questions or need further information.

Sincerely,

*Harry E. LeGrand, Jr.*  
Harry E. LeGrand, Jr., Zoologist  
Natural Heritage Program

HEL/hel



# Allied Design, Inc.

CIVIL ENGINEERING ♦ LAND SURVEYING

August 17, 2001

Mr. Randy Wilson  
North Carolina Wildlife Resources Commission  
512 North Salisbury Street  
Raleigh, North Carolina 27604

**SUBJECT: IMPACTS TO ENDANGERED OR THREATENED SPECIES  
LAND CLEARING AND INERT DEBRIS LANDFILL  
LEWISVILLE, NORTH CAROLINA**

Dear Mr. Wilson:

This letter is being written in order to investigate whether an existing Land Clearing/Inert Debris (LCID) Landfill possess a threat to any endangered and/or threatened species of plant, fish or wildlife or to the destruction of their habitat as identified in 50 CFR Part 17. The LCID Landfill is located at 945 Valleystream Road, Lewisville, North Carolina. Attached is Figure 1, which shows the LCID Landfill location on the Clemmons Quadrangle map.

Currently, there is an LCID Landfill operating at this location that was previously permitted by the NCDENR, Division of Waste Management, under North Carolina Administrative Code 15A NCAC 13B 0.0506 and 0.0507 for Demolition Landfills. The LCID Landfill now requires permitting under the newly adopted rules of 15A NCAC 13B 0.0560 - 0.0566.

In accordance with the subject permitting requirements we are requesting a letter from your office stating whether or not the LCID possess a threat to any endangered and/or threatened species of plant, fish or wildlife or to the destruction of their habitat as identified in 50 CFR Part 17. Please forward a letter to our office summarizing your findings as soon as you have completed an investigation.

If there are any questions or if additional information is needed, please contact me at (336) 765-2377. We appreciate your assistance with this project.

Sincerely,

Steve M. Causey, P.E.

Enclosures: As Noted Above

cc: Mr. Frank Slater



# Allied Design, Inc.

CIVIL ENGINEERING ♦ LAND SURVEYING

August 17, 2001

Mr. David Brooks  
Archaeology and Historic Preservation  
4617 Mail Service Center  
Raleigh, North Carolina 27699-4617

**SUBJECT: IMPACTS TO ARCHAEOLOGICAL/HISTORIC SITES  
LAND CLEARING AND INERT DEBRIS LANDFILL  
LEWISVILLE, NORTH CAROLINA**

Dear Mr. Brooks:

This letter is being written in order to investigate whether an existing Land Clearing/Inert Debris (LCID) Landfill poses a threat to any archaeological and/or historical site. The LCID Landfill is located at 945 Valleystream Road, Lewisville, North Carolina. Attached is Figure 1, which shows the LCID Landfill location on the Clemmons Quadrangle map.

Currently, there is an LCID Landfill operating at this location that was previously permitted by the NCDENR, Division of Waste Management, under North Carolina Administrative Code 15A NCAC 13B 0.0506 and 0.0507 for Demolition Landfills. The LCID Landfill now requires permitting under the newly adopted rules of 15A NCAC 13B 0.0560 - 0.0566.

In accordance with the subject permitting requirements we are requesting a letter from your office stating whether or not the LCID Landfill poses a threat to any archaeological and/or historical sites. Please forward a letter to our office summarizing your findings as soon as you have completed an investigation.

If there are any questions or if additional information is needed, please contact me at (336) 765-2377. We appreciate your assistance with this project.

Sincerely,

Steve M. Causey, P.E.

Enclosures: As Noted Above

cc: Mr. Frank Slater



# Allied Design, Inc.

CIVIL ENGINEERING ♦ LAND SURVEYING

August 17, 2001

Ms. Linda Pearsall  
Natural Heritage Program  
Division of Parks & Recreation  
1615 Mail Service Center  
Raleigh, North Carolina 27699-1615

**SUBJECT: IMPACTS TO PARKS AND RECREATIONAL SITES  
LAND CLEARING AND INERT DEBRIS LANDFILL  
LEWISVILLE, NORTH CAROLINA**

Dear Ms. Pearsall:

This letter is being written in order to investigate whether an existing Land Clearing/Inert Debris (LCID) Landfill causes any adverse impacts on a state park, recreation or scenic area, or any lands in the state nature and historic preserve. The LCID Landfill is located at 945 Valley Stream Road, Lewisville, North Carolina. Attached is Figure 1, which shows the LCID Landfill location on the Clemmons Quadrangle map.

Currently, there is an LCID Landfill operating at this location that was previously permitted by the NCDENR, Division of Waste Management, under North Carolina Administrative Code 15A NCAC 13B 0.0506 and 0.0507 for Demolition Landfills. The LCID Landfill now requires permitting under the newly adopted rules of 15A NCAC 13B 0.0560 - 0.0566.

In accordance with the subject permitting requirements we are requesting a letter from your office stating whether or not the LCID causes any adverse impacts on a state park, recreation or scenic area, or any lands in the state nature and historic preserve. Please forward a letter to our office summarizing your findings as soon as you have completed an investigation.

If there are any questions or if additional information is needed, please contact me at (336) 765-2377. We appreciate your assistance with this project.

Sincerely,

Steve M. Causey, P.E.

Enclosures: As Noted Above

cc: Mr. Frank Slater



# Allied Design, Inc.

CIVIL ENGINEERING ♦ LAND SURVEYING

August 17, 2001

Mr. John Thomas  
U. S. Army Corps of Engineers  
6508 Falls of the Neuse Road, Suite 120  
Raleigh, North Carolina 27615

**SUBJECT: IMPACTS TO JURISCITIONAL WETLANDS  
LAND CLEARING AND INERT DEBRIS LANDFILL  
LEWISVILLE, NORTH CAROLINA**

Dear Mr. Thomas:

This letter is being written in order to investigate whether an existing Land Clearing/Inert Debris (LCID) Landfill encroaches on jurisdictional wetlands. The LCID Landfill is located at 945 Valleystream Road, Lewisville, North Carolina. Attached is Figure 1, which shows the LCID Landfill location on the Clemmons Quadrangle map.

Currently, there is an LCID Landfill operating at this location that was previously permitted by the NCDENR, Division of Waste Management, under North Carolina Administrative Code 15A NCAC 13B 0.0506 and 0.0507 for Demolition Landfills. The LCID Landfill now requires permitting under the newly adopted rules of 15A NCAC 13B 0.0560 - 0.0566.

In accordance with the subject permitting requirements we are requesting a letter from your office stating whether or not the LCID Landfill will encroach on jurisdictional wetlands. Please forward a letter to our office summarizing your findings as soon as you have completed an investigation.

If there are any questions or if additional information is needed, please contact me at (336) 765-2377. We appreciate your assistance with this project.

Sincerely,

Steve M. Causey, P.E.

Enclosures: As Noted Above

cc: Mr. Frank Slater



INSPECTIONS  
DIVISION

# City of Winston-Salem

PUBLIC WORKS  
DEPARTMENT

December 31, 1997

Joe Slater & Frank Slater

Re: Valley Stream Rd. L.C.I.D. Landfill

I have received documentaion in the form of at Topographic survey from Allied Land Surveying, certified by Mr. Richard Bennett that the site referenced here lies above the base flood elevation of Muddy Creek at this location.

Local discretionary authority provided by the Federal Emergency Management Agency allows local jurisdictions to treat sites elevated above the base flood elevation as if they were not in a flood hazard area.

The use of this property as an L.C.I.D. landfill should not be restricted by current floodplain regulations since it is elevated above the base flood elevation.

Sincerely,

Jeffrey P. Kopf  
Erosion Control Engineer

JPF:yp

#### IV. OPERATIONAL PLAN

A. Name and Address

Mr. Frank S. Slater  
Mr. Joe Slater  
5330 Shallowford Road  
Lewisville, North Carolina 27023  
(336) 416-6097 (LCID Site)

B. Site Specific Operational Plan

1. A sign shall be posted at the facility entrance showing the facility permit number and the contact name and telephone number in case of an emergency and the.
2. Vehicles entering the T&P facility for material disposition will be met by on-site employees/personnel. Staff will inspect to the extent possible the material content of the load. Vehicles loaded with material not acceptable for processing will be immediately turned around and not allowed to dump. Staff will estimate the volume of material to be received and make a record of the volume and type of material. Materials that will be accepted are specified in Section E below. Estimated waste stream volumes for the materials to be received are provided in Section F below.
3. Materials deemed acceptable will be directed to the proper disposal or stockpile areas. Unsuitable materials that were not originally detected will be immediately reloaded on the truck. If, during later screening operations, unsuitable materials are discovered, these items will be stockpiled in a suitable area on-site for later disposal in an approved sanitary landfill (Hanes Mill Landfill) or and approved LCID landfill (Old Salisbury Road Landfill). Steel products will be disposed of at a local salvage facility. Unsuitable materials will be removed as the volume accumulates to a truck load capacity (approximately 12 cubic yards) or no less than annually.
4. Dumped materials that are not immediately processed will be stockpiled in designated areas and processed as operations permit. Yard waste and organic materials will be processed more promptly.
5. Surface water will be directed via permanent and/or temporary ditches and swales as necessary to prevent water from ponding and softening work areas. Access roads shall be of all-weather construction and properly maintained. Adequate erosion control measures, structures, or devices shall be utilized to prevent silt and sediment from leaving the site and to prevent excessive on-site erosion.

Erosion control measures will be inspected after each rainfall event of greater than 0.5 inches or no less than once a month. Sediment shall be cleaned when silt and sediment accumulated to one-half of basin capacity. Silt fences shall be cleaned when silt and sediment has accumulated to a depth of one-foot.

6. Asphalt, brick and concrete materials will be screened, sorted, crushed and stockpiled on-site for recycling. Quantities are removed from the site as the market determines.
7. Wooded materials brought on-site will be separated. Materials will be processed to remove excessive soil materials. Logs and large limbs suitable for saw milling operations will be stored on-site in designated areas. These materials will be sawn into lumber on-site. Large stumps will be ground or stockpiled for later splitting or reduction to manageable sizes. Limbs and other wood debris will be ground on-site. Wood products will be processed, ground, and stored on-site to produce a viable and marketable mulch or chip product. Mulch products will be made available for sale to the public. Excess will be sold for fuel.
8. Soil materials removed from the waste stream process will be stockpiled on-site, screened and sold as topsoil.
9. The Operator will maintain appropriate equipment on-site to process and handle the waste products. Equipment will be of sufficient size and capacity to move, process and dispose of received materials.
10. Appropriate measure shall be taken to control flies, rodents and other insects and vermin on-site. This may include use of insecticides, traps and other measures.
11. The Owner/Operator will perform routine inspections of the grounds and surrounding areas to collect and dispose of windblown materials from the site.
12. The Operator will provide sufficient means for dust control from the site. This may include watering and temporary ground covers. Necessary provisions will be in place to remove mud and sediment that may be transported from the site.

Ten pressure fan-type spray nozzles are located on the grinding machine and are directed to spray in the grinding chamber and on the outfeed belt. Sprayers are operated continuously during grinding operations.

Four pressure fan-type spray nozzles are located on the crushing machine and are directed to spray in the crushing chamber and on the outfeed belt. Sprayers are operated continuously during crushing operations.

Roads and working areas are sprayed on a regular basis or as needed to provide dust control. A 1,000 gallon skid mounted tank and self-contained pump are maintained on site for these operations.

13. Open burning of solid waste is prohibited.
14. The facility shall be adequately secured by means of gates, chains, berms, fences, etc. to prevent unauthorized access except when an operator is on duty. An attendant shall be on duty at all times while the landfill is open for public use to assure compliance with operational requirements and to prevent acceptance of unauthorized wastes.
15. Beneficial fill to be accepted in order to provide positive drainage in low areas on site.
16. The Owner/Operator will not receive material for processing if receiving area is to capacity for any reason. (i.e. equipment failure)

E. Acceptable Waste Stream

The T&P facility will accept only the materials allowed by the North Carolina Solid Waste Section that are generated solely through land clearing activities. As defined by the Solid Waste Section rules, acceptable materials will be limited to: stumps, logs, trees, pallets, limbs, brush, and other naturally occurring vegetative matter, land clearing waste, concrete, brick, concrete block, uncontaminated soil, gravel and rock, untreated and unpainted wood, and yard trash. (Yard trash is defined as solid waste resulting from landscaping and yard maintenance such as tree limbs, and similar material.)

F. Estimated Waste Stream Volume

It is estimated that approximately 10 truckloads of material are received daily with an average volume of eight to ten cubic yards each. The on-site processing operations result in approximately a three to one (3:1) reduction in this volume. This equates to approximately 8,200 cubic yards of waste materials received and processed at the facility annually. The processed waste is estimated to weigh approximately 0.25 tons per cubic yard. As a result the estimated, annual amount of processed waste is calculated as 2,000 tons. This amount is broken down into the following estimated volumes:

Waste Stream Material (Estimated Annual Volumes)	Received		Recycled	
	%	Tons	%	Tons
1. Asphalt, Brick, Concrete	10%	200	10%	200
2. Saw Logs and Slabs	18%	360	18%	360
3. Limbs, Brush, Stumps, Wood, Soil & Other Wood Materials	72%	1,440	72%	1,440
4. Unacceptable Materials	< .1%	0	NA	
<b>TOTAL</b>	<b>100%</b>	<b>2,000</b>	<b>100%</b>	<b>1,960</b>

Processed and recycled wood products are sold as mulch or chip products. Mulch is sold to homeowners, landscapers and directly to institutional facilities such as Wake Forest University for use in landscaping applications. Chip products are trucked from the site to industrial facilities such as Corn Products for use as boiler fuel. Logs suitable for pulpwood are sold to a logger. Logs suitable for sawing are sawn on-site with a sawmill into lumber products that are sold to industry and individuals for use as packing timbers, furniture and other lumber products.

Asphalt, brick and concrete materials are ground into a usable product. Quantities and materials suitable for use as beneficial fill will be resold to residential and/or commercial construction contractors for use as backfill. It should be noted that the City of Winston-Salem Inspectors have approved this material for excavation backfill. Significant amounts of ground concrete are also used on-site for road maintenance.

It should also be noted that the facility receives return or overrun, wet concrete. The concrete is poured into prepared forms, waiting on-site to produce a concrete block wall unit.

G. Emergency Management Plan

In the event of fire or accidents on-site during normal operating hours, the Operator or employee(s) on-site will make emergency contact through the Forsyth County 911 system who will dispatch the appropriate emergency unit(s). The Winston-Salem Fire Department, Station 10, is located approximately 2.0 miles from the site. *(See attached letter from Lewisville Fire Department regarding response.)*

The operator maintains equipment on-site with capabilities of turning mulch piles and removing combustible materials from a fire. The Owner/Operator maintains a 1,025 gallon skid mounted tank and pump for emergency management and fire control.

In the event of fire on-site during non-operating hours, persons observing the incident should be able to contact the Owner/Operator from the contact information provided on the front gate. The Owner/Operator will contact the 911 system and respond to the site. Persons observing an incident could also contact 911.

H. Equipment List

The Owner/Operator currently maintains the following equipment on-site:

- Bandit Beast 3680 Wood Recycler
- Pioneer 24 x 36 Concrete Recycler
- Extec Topsoil Screener
- Read Screen All
- 315 BL Caterpillar Excavator with Thumb
- Bucket & Sorting Rakes
- L90 Volvo Wheel Loader with 3 ½ x 8 yard Buckets, Sorting Rakes & Forks
- 955L Caterpillar Track Loader
- D6C Caterpillar Bulldozer
- 580K Case Backhoe
- 545 Ford Tractor Loader
- Tandem Dump Truck
- Log Trailer
- Freightliner Road Tractor
- 5-Chip Trailers
- Cooks 36" Bandsaw Mill
- Lumber Kiln Dryer
- Morgan Sawmill Edger
- Skytrak Telescoping Forklift
- 1025 gallon Skid Mounted Tank & Pump for dust control and fire protection
- 1 Ton Service Truck

Several pieces of small equipment such as Pumps, Welders, Saws and other support equipment

In the event of equipment failure, the Owner has arrangements with various local contractors to borrow equipment. Leasing options are also available to provide solutions for equipment replacement.

I. Annual Notification

The Annual Notification will be received from the Raleigh NCDENR office. The Owner/Operator will complete the form and return the completed form to the Division of Waste Management. Copies of the notification will be kept on file as required by the rules.

**V. DEVELOPMENT AND SITE PLANS**



Facility Permit No: 34-22-TP  
Slater's Industries Treatment and Processing  
Facility  
Part 2 - Permit to Operate  
Doc Id No. 11290  
October XX, 2010  
Page 1 of 7

North Carolina Department of Environment and Natural Resources  
Division of Waste Management

Beverly Eaves Perdue  
Governor

Dexter R. Matthews  
Director

Dee Freeman  
Secretary

STATE OF NORTH CAROLINA  
DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES  
DIVISION OF WASTE MANAGEMENT

**LAND CLEARING AND INERT DEBRIS TREATMENT AND PROCESSING  
FACILITY  
PERMIT NO. 34-22-TP**

**FRANK & BETTIE P. SLATER (PROPERTY OWNER)  
JOE SLATER doing business as SLATER INDUSTRIES (OPERATOR)**  
are hereby issued a

**PERMIT TO OPERATE**

**SLATER INDUSTRIES TREATMENT AND PROCESSING FACILITY**

Located at 945 Valleystream Road, Winston-Salem, Forsyth County, North Carolina, in accordance with Article 9, Chapter 130A, of the General Statutes of North Carolina and all rules promulgated thereunder and subject to the conditions set forth in this permit. The legal description of the site is identified on the deeds recorded for this property listed in Attachment 1, Part III of this permit.

\_\_\_\_\_  
Edward F. Mussler, III, P.E.,  
Permitting Branch Supervisor  
Solid Waste Section

1646 Mail Service Center, Raleigh, North Carolina 27699-1646  
Telephone 919-508-8400 \ Fax 919-733-4810 \ Internet <http://wastenotnc.org>

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**ATTACHMENT 1**

**PART I: PERMITTING HISTORY**

Permit Type	Date Issued	Document ID No.
Permit to Construct/Operate	July 26, 2005	
Permit to Construct/Operate	October XX, 2010	11290

**PART II: LIST OF DOCUMENTS FOR THE APPROVED FACILITY PLAN**

1. Original permit submittal document titled "*Permitting and Operations Manual, Solid Waste Management Treatment and Processing Facility* for Slater's Industries, Valley Stream Road, Winston-Salem, NC. Dated May 2004 and revised July 8, 2005. Prepared by Allied Design, Inc. Original submittal documents include the application narrative, Zoning Approval (dated 8 November 2001), design drawings, and site Operations Plan.
2. Document titled "*Permitting and Operations Manual, Solid Waste Management Treatment And Processing Facility* for Slater's Industries, Valley Stream Road, Winston-Salem, NC, Permit No. 34-22," dated May 2010 and prepared by Allied Design, Inc., Winston-Salem, NC. DIN 11284.

**PART III: PROPERTIES APPROVED FOR THE SOLID WASTE FACILITY**

Forsyth County, N.C. Register of Deeds & Tax Records					
Book	Page	Acreage	PIN	Block-Lot	Owner
1028	677	14.13	5895-61-4602.00	4428-004F, 004Z, 005V	Frank S. & Bettie P. Slater
		14.13	Total Acreage		

**PART IV: GENERAL PERMIT CONDITIONS**

1. This permit shall expire on October XX, 2015. Pursuant to 15A NCAC 13B .0201(g), no later than June XX, 2015, the owner or operator must submit a request to the North Carolina Department of Environment and Natural Resources, Division of Waste Management, Solid Waste Section ("Section") for permit review and must update pertinent facility plans including, but not limited to, the facility operation and waste screening plans.
2. The persons to whom this permit is issued ("permittee") are the owners and operators of the solid waste management facility.
3. (Intentionally Blank)
4. (Intentionally Blank)
5. By receiving waste at this facility the permittee shall be considered to have accepted the terms and conditions of this permit.
6. Operation of this solid waste management facility must be in accordance with the Solid Waste Management Rules, 15A NCAC 13B, Article 9 of the Chapter 130A of the North Carolina General Statutes (NCGS 130A-290, et seq.), the conditions contained in this permit; and the approved plan. Should the approved plan and the rules conflict, the Solid Waste Management Rules shall take precedence unless specifically addressed by permit condition.
7. This permit is issued based on the documents submitted in support of the application for permitting the facility including those identified in Attachment I, Part II "List of Documents for Approved Plan," and which constitute the approved plan for the facility. Where discrepancies exist, the most recent submittals and the Conditions of Permit shall govern.
8. This permit may be transferred only with the approval of the Section, through the issuance of a new or substantially amended permit in accordance with applicable statutes and rules. In accordance with NCGS 130A-295.2(g) the permittee shall notify the Section thirty (30) days prior to any significant change in the identity or business structure of either the owner or the operator, including but not limited to a proposed transfer of ownership of the facility or a change in the parent company of the owner or operator of the facility.

9. The permittee is responsible for obtaining all permits and approvals necessary for the development of this project including approval from appropriate agencies for a General or Individual NPDES Stormwater Discharge Permit. Issuance of this permit does not remove the permittee's responsibilities for compliance with any other local, state or federal rule, regulation or statute.

*- End of Section -*

## **ATTACHMENT 2**

### **CONDITIONS OF PERMIT TO CONSTRUCT**

#### **PART I - GENERAL FACILITY CONDITIONS**

This Section is not applicable to this Permit issued (October XX, 2010)

## **ATTACHMENT 3**

### **CONDITIONS OF PERMIT TO OPERATING**

#### **PART I - OPERATING CONDITIONS**

1. This "treatment and processing facility" is permitted to receive land clearing waste, concrete, brick, concrete block, uncontaminated soil, gravel and rock, untreated and unpainted wood and pallets and yard trash. Waste acceptance requirements may be affected by future revisions and amendments to the NC General Statutes, or to the NC Solid Waste Management Rules.
2. Only materials specifically listed in the permit application may be managed at this facility without adequate testing and prior approval of the Division of Waste Management.

Should materials begin to compost, generate heat in excess of 110 degrees Fahrenheit, resulting in a change in physical appearance of the ground material, it will be necessary to obtain a compost permit for this operation.

3. A responsible individual trained and certified in facility operations must be on-site at all times during all operating hours of the facility, in accordance with G.S. 130A-309.25.
4. The permittee must develop, and use, a training and screening program at the facility for detecting and preventing unauthorized wastes from being accepted at the facility.
5. The facility must not cause nuisance conditions.
  - a. Effective vector control measures must be applied at all times to control any potential vectors including flies, rodents, insects, and other vermin.
  - b. Control measures must be utilized to minimize and eliminate visible dust emissions and blowing litter.
    - i) Fugitive dust emissions are prohibited.
    - ii) Windblown materials must be collected by the end of the day and no windblown material may be allowed to leave the facility boundary.
6. All sedimentation and erosion control activities must be conducted in accordance with the Sedimentation Control Act N.C.G.S. 113A-50, et seq., and rules promulgated under 15A NCAC 4.
7. Copies of this permit, the approved plans and all records required to be maintained by the permittee must be maintained at the facility, unless otherwise approved by the Section, and made available to the Section upon request during normal business hours.
8. The permittee must maintain a record of the amount of solid waste received at the facility, including daily records of waste received and origins of the loads. The daily records are to be summarized into a monthly report for use in the required annual reports.
9. An annual report shall be submitted by August 1st of each year for the previous July 1 through June 30. The report shall include, at a minimum, the following:
  - a. The facility name, address and permit number;

- b. The total quantity in tons and type of waste received at the facility during the reporting year;
  - c. The total quantity in tons and type of waste processed during the reporting year;
  - d. The total quantity in tons and type of material produced at the facility, by product classification, during the reporting year;
  - e. The total quantity in tons and type of materials removed for use or disposal from the facility, by product classification, along with a general description of the market if for use during the year covered by the report;
10. This facility shall be operated in such a manner that 75% of materials received shall be treated or processed and distributed within 12 months of receipt.
  11. Wastes received and product stored shall be maintained in reasonably sized piles with adequate fire breaks and lanes in accordance with the approved operational plans and the pertinent rules.
  12. Surface water shall be diverted from all operational and storage areas to prevent standing water in operational areas and under or around storage piles. Water that comes in contact with solid waste shall be contained on-site or properly treated prior to discharge.
  13. These areas shall be operated and maintained in a manner so as to minimize odors, prevent the creation of a nuisance, potential health hazard, or a potential fire hazard.
  14. The facility must manage all operations according to all applicable statutes and rules of the State of North Carolina.
  15. The buffer to property line shall be maintained free of waste and final product.
  16. This facility shall be operated in a manner which is consistent with the State solid waste management plan and with the solid waste management plans that have been adopted by those units of local government served by the facility and approved by the Section.
  17. All required sedimentation and erosion control measures must be installed and operable to mitigate excessive on-site erosion and to prevent silt from leaving the area of the landfill unit during the service life of the facility.

18. All earth disturbing activities must be conducted in accordance with the Sedimentation Pollution Control Act of 1973 (15 NCAC 4) and consistent with any other local, state or federal requirements.
19. Facility construction, operations or practices must not cause or result in a discharge of pollution, dredged material, and/or fill material into waters of the state in violation of the requirements under Sections 402 and 404 of the Clean Water Act, as amended.
20. Modifications to the approved sedimentation and erosion control activities require approval by the North Carolina Land Quality Section. The Section must be notified of any sedimentation and erosion control plan modifications.

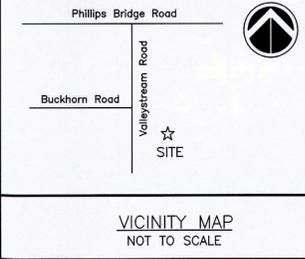
*- End of Permit Conditions -*

**OPERATIONAL PLAN**

1. A sign shall be posted at the facility entrance showing the facility permit number and the contact name and telephone number in case of an emergency and the.
2. Vehicles entering the T&P facility for material disposition will be met by on-site employees/personnel. Staff will inspect to the extent possible the material content of the load. Vehicles loaded with material not acceptable for processing will be immediately turned around and not allowed to dump. Staff will estimate the volume of material to be received and make a record of the volume and type of material. Materials that will be accepted are specified in Section E below. Estimated waste stream volumes for the materials to be received are provided in Section F below.
3. Materials deemed acceptable will be directed to the proper disposal or stockpile areas. Unacceptable materials that were not originally detected will be immediately reloaded on the truck. If during later screening operations, unacceptable materials are discovered, these items will be stockpiled in a suitable area on-site for later disposal in an approved sanitary landfill (Hanes Mill Landfill) or an approved LCID landfill (Old Salisbury Road Landfill). Steel products will be disposed of at a local salvage facility. Unacceptable materials will be removed as the volume accumulates to a truck load capacity (approximately 12 cubic yards) or no less than annually.
4. Dumped materials that are not immediately processed will be stockpiled in designated areas and processed as operations permit. Yard waste and organic materials will be processed more promptly.

5. Surface water will be directed via permanent and/or temporary ditches and swales as necessary to prevent water from ponding and softening work areas. Access roads shall be of all-weather construction and properly maintained. Adequate erosion control measures, structures, or devices shall be utilized to prevent silt and sediment from leaving the site and to prevent excessive on-site erosion.
6. Asphalt, brick and concrete materials will be screened, sorted, crushed and stockpiled on-site for recycling. Quantities are removed from the site as the market determines.
7. Wooded materials brought on-site will be separated. Materials will be processed to remove excessive soil materials. Logs and large limbs suitable for saw milling operations will be stored on-site in designated areas. These materials will be sawn into lumber on-site. Large stumps will be ground or stockpiled for later splitting or reduction to manageable sizes. Limbs and other wood debris will be ground on-site. Wood products will be processed, ground, and stored on-site to produce a viable and marketable mulch or chip product. Mulch products will be made available for sale to the public. Excess will be sold for fuel.
8. Soil materials removed from the waste stream process will be stockpiled on-site, screened and sold as topsoil.
9. The Operator will maintain appropriate equipment on-site to process and handle the waste products. Equipment will be of sufficient size and capacity to move, process and dispose of received materials.

10. Appropriate measure shall be taken to control flies, rodents and other insects and vermin on-site. This may include use of insecticides, traps and other measures.
11. The Owner/Operator will perform routine inspections of the grounds and surrounding areas to collect and dispose of windblown materials from the site.
12. The Operator will provide sufficient means for dust control from the site. This may include watering and temporary ground covers. Necessary provisions will be in place to remove mud and sediment that may be transported from the site.
13. Open burning of solid waste is prohibited.
14. The facility shall be adequately secured by means of gates, chains, berms, fences, etc. to prevent unauthorized access except when an operator is on duty. An attendant shall be on duty at all times while the landfill is open for public use to assure compliance with operational requirements and to prevent acceptance of unauthorized wastes.



**Allied Design, Inc.**  
CIVIL ENGINEERING & LAND SURVEYING  
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Fax: (336) 766-8886  
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**PERMITTING DRAWINGS**  
DO NOT USE FOR CONSTRUCTION

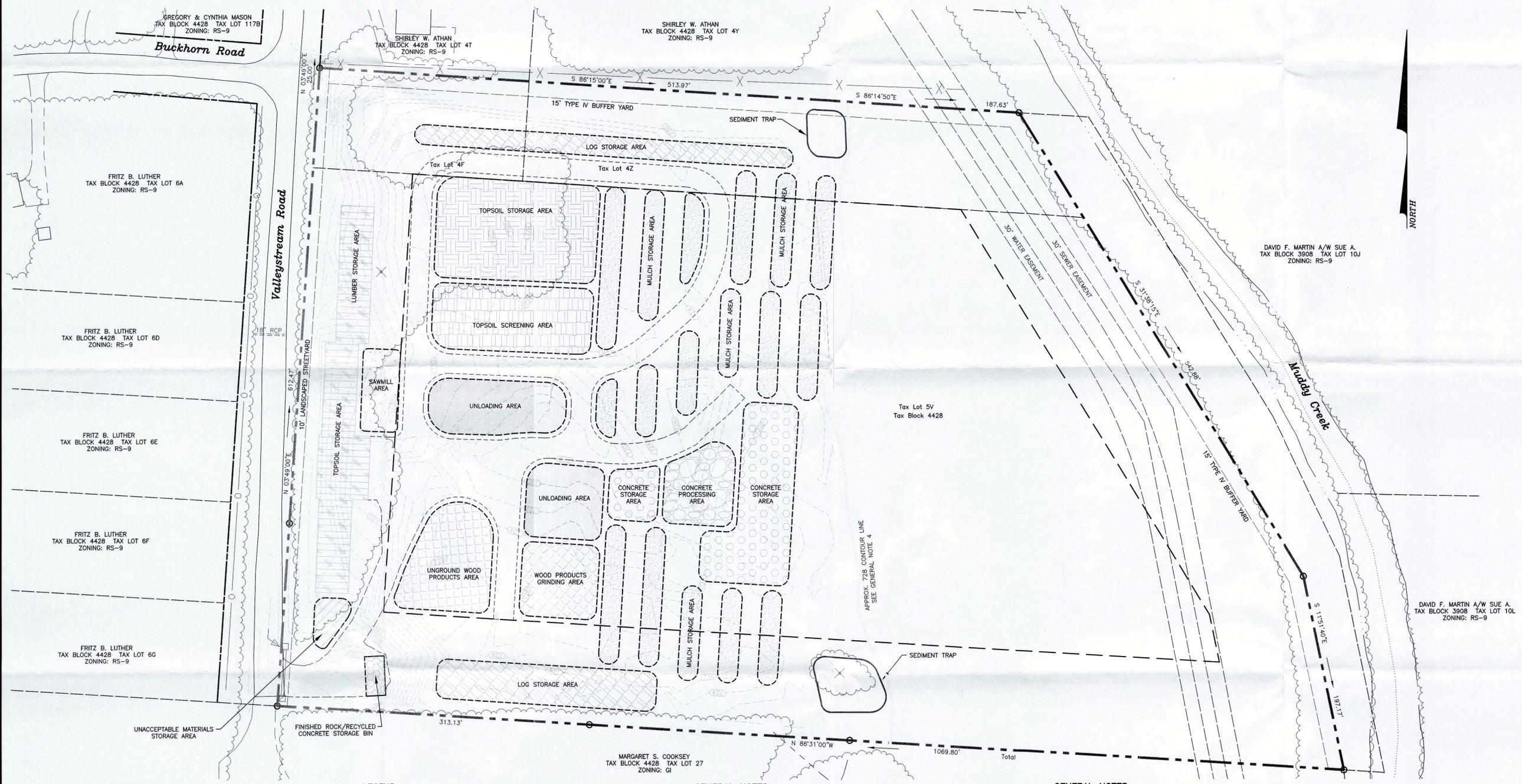
**SLATER INDUSTRIES**  
TREATMENT AND PROCESSING FACILITY  
WINSTON-SALEM, NORTH CAROLINA

PROJECT NO.: ALS050/7453  
DRAWN BY: WAB/SWC  
CHECKED BY: SWC  
DATE: 12/07/01

NO.	DATE	REVISIONS DESCRIPTION
A	09/04/02	ISSUED FOR PERMITTING/REVIEW
B	05/07/04	REVISED FOR T&P PERMITTING ONLY
C	04/21/10	ISSUED FOR PERMIT RENEWAL
D	04/16/15	ISSUED FOR PERMIT RENEWAL

**OVERALL SITE AND OPERATIONAL PLAN**

SHEET  
**C1**  
OF 1



- LEGEND**
- LOG STORAGE AREA.
  - WOOD PRODUCTS GRINDING AREA.
  - UNGROUND WOOD PRODUCTS AREA.
  - MULCH WINDROW STORAGE AREA.
  - CONCRETE STORAGE AREA.
  - CONCRETE PROCESSING AREA.

- LEGEND**
- TOPSOIL STORAGE AREA.
  - TOPSOIL SCREENING AREA.
  - FINISHED ROCK/RECYCLED CONCRETE STORAGE BIN.
  - TOPSOIL AND LUMBER STORAGE BINS.
  - SAWMILL AREA.
  - UNLOADING AREA.

**GENERAL NOTES**

1. THIS MAP IS PROVIDED FOR ILLUSTRATIVE AND PERMITTING PURPOSES AND HAS BEEN PREPARED FROM A SURVEY COMPLETED BY ALLIED LAND SURVEYING CO., P.A.; FROM DIGITAL AERIAL PHOTOGRAPHIC AND PLANIMETRIC MAPS; AND FROM SITE INSPECTIONS.
2. THE PROCESSING AREAS AS DELINEATED ARE APPROXIMATE. WORK WITHIN THESE AREAS IS CONTINUALLY CHANGING BUT WILL BE GENERALLY CONFINED TO THE PERMITTING REQUIREMENTS.
3. OPERATION OF THE TREATMENT AND PROCESSING FACILITY SHALL COMPLY WITH NORTH CAROLINA ADMINISTRATIVE CODE, 15 NCAC 13B.0563 THROUGH 0566. OPERATION OF THE FACILITY SHALL ALSO CONFORM TO THE FORSYTH COUNTY UNIFIED DEVELOPMENT ORDINANCE, SECTION 2-5.37.

**GENERAL NOTES**

4. THE 728 CONTOUR LINE AS SHOWN REPRESENTS THE APPROXIMATE LIMITS OF THE SITE THAT HAVE BEEN ELEVATED ABOVE THE 100-YEAR FLOODPLAIN ELEVATION. THE FLOODPLAIN REVISIONS WERE APPROVED AS NOTED IN A LETTER FROM THE WINSTON-SALEM/FORSYTH COUNTY INSPECTIONS DIVISION DATED DECEMBER 31, 1997.

