The composting portion of this application is not approved.
D. Wilson
Feb. 2011

APPROVED DOCUMENT
Division of Waste Management
Solid Waste Section
Approved February 18, 2011
By D. Wilson
Facility ID 27-05T-Transfer-2011
Attch. 1, Part II, Doc 3
Doc ID 12931

PERMIT APPLICATION

Soundside C&D Waste Transfer
&
Recycling Center
Currituck County, North Carolina

Prepared for:

SOUNDSIDE
RECYCLING & MATERIALS, INC.

Jarvisburg, North Carolina

December 2010

PERMIT ISSUE DOCUMENTS

RICHARDSON SMITH GARDNER
& ASSOCIATES
ENGINEERING & GEOLOGICAL
SERVICES

PRINTED ON 100% RECYCLED PAPER

PERMIT APPLICATION

Soundside C&D Waste Transfer & Recycling Center
(NC Solid Waste Permit No. 27-05)
Currituck County, North Carolina

Prepared for:

SOUNDSIDE
RECYCLING & MATERIALS, INC.

7565 Caratoke Highway
Jarvisburg, North Carolina

To the Attention of:

Mr. Racy Newbern
Soundside Recycling & Materials, Inc.

RSG Project No. SOUND-10-1

Don Misenheimer
Project Scientist

Stacey A. Smith, P.E.
Project Manager

NORTH CAROLINA PROFESSIONAL SEAL 023002 ENGINEER STACEY A. SMITH
12-21-10

December 2010

RICHARDSON SMITH GARDNER & ASSOCIATES
ENGINEERING & GEOLOGICAL SERVICES

PRINTED ON 100% RECYCLED PAPER

SOUNDSIDE C&D WASTE TRANSFER & RECYCLING CENTER
CURRITUCK COUNTY, NORTH CAROLINA

PERMIT APPLICATION

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EXECUTIVE SUMMARY

GENERAL

The following is a Transfer Facility Permit Application submitted on behalf of Soundside Recycling & Materials, Inc. (Soundside) for the expansion and operation of a Consruction and Demolition Debris (C&D) Transfer Station and Recycling Center at the current location of a more limited operation of new construction debris recovery (NC Solid Waste Permit No. 27-05, **Attachment A**), site in Jarvisburg, Currituck County, North Carolina. It is the intent of Soundside to expand the existing facility operations to include C&D transfer operations, material recovery, compost operations and recycling upon approval of this application.

REGULATORY REFERENCES

This submittal focuses on the application and operational requirements of the proposed transfer and recycling facility. The attachments included herein comply with the submittal requirements under 15A NCAC 13B .0400 (Transfer Facilities) and 15A NCAC 13B.1400 (Solid Waste Compost Facilities), North Carolina Sedimentation Control Rules (15A NCAC 4), *Guidelines for the Preparation of Permit Applications for Transfer*, and applicable sections of Session Law 2007-550 (Solid Waste Management Act of 2007) which are enforced by the Division of Waste Management (DWM) of the North Carolina Department of Environment and Natural Resources (NCDENR).

Included in this document are the following attachments *(with applicable rule(s) in italics)*:

Property Description *(.0401 (3))*;
Ownership Approval *(.0401 (3))*;
Zoning Documentation (*.0401 (2))*;
Operations Manual *(.0402)*;
Erosion and Sediment Control Plan (*.0401 (3))*;
FEMA Firm Map (*.0401 (3))*;
Stormwater Permit *(2H.1000)*;
Traffic Documentation *(§130A-295.5)*.
Financial Assurance *(§130A-294 (b2))*; and
Project Drawings *(.0401(1))*;

PROPERTY DESCRIPTION

The development is proposed on property owned by Mr. and Mrs. H.D. Newbern, III as described in Currituck County Deed Book 172, Pages 325-328. The complete tract is approximately 30 acres which is accessed from the west along its shared boundary with U.S. Highway 158 as shown in the Site Plan provided in **Attachment K**. Legal descriptions for this property is included in **Attachment B.**

PROPERTY OWNERSHIP AND OPERATION

The proposed facility will be operated by Soundside Recycling & Materials, Inc., a NC Corporation, on property owned by Mr. and Mrs. H.D. Newbern, III. A Landowner Authorization is provided as **Attachment C**. Mr. and Mrs. H.D. Newbern, IV (the son of H.D. Newbern, III) formed Soundside Recycling & Materials, Inc. to operate the facility. Contact information for Soundside is as follows:

Operator:	Soundside Recycling & Materials, Inc.
Contact:	Mr. Horatio "Racy" D. Newbern, IV
Address:	7565 Caratoke Highway Jarvisburg, North Carolina 27947
Phone:	(252) 491-8666
Email:	racysoundside@mchsi.com

Articles of Incorporation for Soundside are also provided in **Attachment C.**

APPLICATION REQUIREMENTS

The following sections correspond with the permit application for a transfer facility as outlined in the North Carolina Solid Waste Transfer Facilities Rules. The site plan drawing was prepared by a professional engineer duly registered in the State of North Carolina.

ZONING

The site is located in the "A" (Agricultural) zoning district of Currituck Cunty. The current facility has been operating under a Special Use Permit with a two (2) year expiration term. Soundside has pursued and been granted numerous extensions and most recently received an additional approval for a one (1) year term (expiration December 5, 2011. A copy of this recent approval as well as historical permit approvals are included in **Attachment D**. The proposed transfer and recycling activities are allowed under this approval.

OPERATIONS MANUAL

The Operations Manual outlines and describes protocols for facility operation and maintenance and was prepared to provide facility personnel with a clear understanding of how the Design Engineer envisioned that the completed facility would be operated. Along with the Project Drawings, the Operations Manual has been prepared to comply with the requirements of 15A NCAC 13B.0402 and 15A NCAC 13B.1426. A copy of the Operations Manual is included in **Attachment E.**

SITING AND DESIGN STANDARDS

The following sections explain how the transfer and recycling facility complies with siting and design standards in Transfer Facilities Guidelines provided by the North

Carolina Division of Waste Management and 15A NCAC 13B.0400 and Compost Facilities under 15A NCAC 13B.1400.

Sedimentation Pollution Control Law

A Sedimentation and Erosion Control Plan was performed by Performance Engineering and was subsequently approved on July 11, 2006 by the Division of Land Resources and is included in **Attachment F**. Any future correspondence will be copied to the Division of Waste Management. This plan outlines measures to be taken during facility construction to minimize any sediment run-off due to land disturbance.

Floodplain

The transfer and recycling facility operations are not located within a floodplain. However, a portion of the floodplain boundary encroaches upon the southwest corner of the property and is shown on the project site plan. A copy of the FEMA flood plain map is included in **Attachment G**.

Surface Water Quality Standards

The facility is bordered by grassed pasture areas on the North, East, and South sides and U.S. Highway 158 to the West. No wetlands exist on the site as determined by the U.S. Army Corps of Engineers under Action ID 2008-02257 provided in **Attachment G**. All runoff within the facility boundary is controlled through shallow swales directed to two (2) wet detention basins prior to discharge into an existing channel that divides the site east to west. All site development will be conducted in accordance with the approved Plan Approval issued on July 11, 2006 by the Division of Land Resources.

Coastal Area Management

Currituck County has CRC certification and authority for CAMA consistency determination under the Land Use Plan (LUP) which was demonstrated under the Special Use Permit as “consistent” with the LUP. The site is located within the “Full Service Area: which does not include any restrictions. The site does not contain any Areas of Environmental Concern under the jurisdiction of CAMA which was confirmed by the County by conversations with Division of Coastal Management.

Stormwater Permit

The facility has satisfied the Stormwater Regulations set forth in Title 15A NCAC 2H.1000 and has obtained approval of a Stormwater Permit, Permit No. SW7060618, from the Division of Water Quality which is provided in **Attachment H**. This current permit was issued on January 10, 2007 and shall be

effective until January10, 2017.

Property Line Buffer

Although transfer facilities do not have a minimum buffer requirement, Currituck County Zoning buffers exist as follows:

- 20 foot buffer from development along the road frontage;
- 25 foot rear buffer from development along the property line;
- 15 foot side yard buffer from development within the "A" zoning district;

A proposed Type IV compost operation is also considered under this expansion which also require the following buffers also exist:

- 100 foot buffer from compost areas and the property line.

Residential and Well Buffers

According to zoning notes, the nearest residence is approximately 300 feet from the recycling areas to the west. The transfer area, at its closest point, is approximately 300 feet from the property line, and the grinding and screening operations, at the closest point, is greater than 200 from the property line. One (1) potable well exists at the west end of the site near the site offices and is under the control of Soundside.

Public Access

The site will not allow uncontrolled public access. The entrance road to the site passes the site office and scales. The boundaries outside the transfer and recycling areas currently include a combination of vegetation and/or berms and surface water channels to limit access to the transfer and recycling operations. Sales of the mulch, recovered materials, compost, and topsoil products will be conducted just past the scales as shown in the Site Plan provided in **Attachment K**.

Existing Material Recovery and Transfer Operations

In accordance with the current Special Use Permit, the existing operation must be relocated to the east of the Dominion Utility Easement. Therefore, the proposed expansion will not interfere with existing operations. Once the proposed transfer and recycling areas are ready for operations and approved by the Division, operations will transfer away from the existing area. This area will then be graded and prepared for finished mulch, compost, or recovered materials sales to the public as shown on the Permit Drawings. Furthermore, in accordance with the Administrative Consent Agreement issued August 3, 2007 the existing wood chip berm has been removed and the operation of processing of engineered wood

products has been discontinued. A copy of this consent agreement is provided in **Attachment A**.

Proposed Compost Operations

The composting portion of this application is not approved.
D. Wilson
Feb. 2011

The existing operation does not currently include composting on site. However, in close proximity, Soundside is conducting a pilot composting project under the approval of the Composting and Land Application Branch. It is the intention of this application to relocate the compost operation to the facility in this application. The compost operations will be limited to a two (2) acre area in the eastern most portion of the site, pending completion of the pilot project. A copy of the demonstration permit for these the compost operations is provided in **Attachment A**.

IMPLEMENTATION SCHEDULE

This application has been prepared as a comprehensive response to the anticipated waste operations at the site. However, the proposed compost operations will not be immediately implemented until the pilot project is completed and upon approval by the NCDENR. Therefore, the operations requested focuses on the transfer area and recycling areas which is reflected in the financial assurance estimate.

TRAFFIC DOCUMENTATION

In accordance with Session Law 2007-550, documentation from Mr. Jerry Jennings, P.E., Division Engineer with the North Carolina Department of Transportation (DOT) has been requested by Martin Alexiou Bryson and has been included in **Attachment I**. The proposed transfer and recycling center will not have a substantial impact on the limited controlled access highway (US Highway 158).

FINANCIAL ASSURANCE

In accordance with Session Law 2007-550, an estimate has been provided for financial assurance of the transfer and recycling facility center. A copy of the estimate has been included in **Attachment J**.

Attachment A

Permit Documentation

NCDENR

North Carolina Department of Environment and Natural Resources

Dexter R. Matthews, Director | Division of Waste Management | Michael F. Easley, Governor
William G. Ross Jr., Secretary

July 22, 2005

Mr. & Mrs. H.D. Newbern III, Landowners
P.O. Box 277
Powells Point, North Carolina 27966
and
Mr. Horatio D.(Racy) Newbern IV, President
Soundside Recycling & Materials, Inc.
P.O. Box 176
Aydlett, North Carolina 27916

Subject: Soundside Recycling & Materials, Inc. C&D Facility
Permit # **27-05**
Powells Point, Currituck County, North Carolina
Modification #6: Operation time extended by Currituck County to 12/05/05..

Dear Mr. Newbern:

Enclosed is a amended Permit to Operate for the referenced solid waste management facility and the amended conditions for the above referenced facility. This modification addresses the extension of time give to Soundside to operate the recycling facility until 5 December 2005.

Please review the conditions of the permit carefully and if you have any questions or comments please contact Jim Barber at (919) 508-8495 or contact Chuck Boyette at (252) 948-3913.

Sincerely,

Jim Barber
Permitting Branch Supervisor
Solid Waste Section
cc: John Crowder
Chuck Boyette
[redacted]

1646 Mail Service Center, Raleigh, North Carolina 27699-1646
Phone: 919-508-8400 \ FAX: 919-733-4810 \ Internet http://wastenotnc.org
An Equal Opportunity / Affirmative Action Employer – Printed on Dual Purpose Recycled Paper

FACILITY PERMIT NO:	27-05
ORIGINAL DATE ISSUED(PTC):	07/27/2000
ORIGINAL DATE ISSUED(PTO):	11/09/2000
DATE OF MODIFICATION #5(PTO):	07/10/2002
DATE OF MODIFICATION #6(PTO):	07/22/2005

STATE OF NORTH CAROLINA

DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES

DIVISION OF WASTE MANAGEMENT

1646 MAIL SERVICE CENTER; RALEIGH, N.C. 27699-1646

SOLID WASTE PERMIT

Mr. & Mrs. H.D. NEWBERN III (Landowners)
AND
SOUNDSIDE RECYCLING & MATERIALS, INC.(operator)

are hereby issued a PERMIT TO OPERATE a

SOLID WASTE MANAGEMENT FACILITY

for

CONSTRUCTION WASTE AND DEMOLITION WASTE SHINGLES

located at 7576 Caratoke Highway, Poplar Branch Township in Powells Point , Currituck 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 facility is located and described by the construction plan submitted and the permit application narrative.

Donald J. Barber
Permitting Branch Supervisor
Solid Waste Section
Division of Waste Management

PERMIT NUMBER:	27-05
ORIGINAL DATE ISSUED(PTC):	July 24, 2000
ORIGINAL DATE ISSUED(PTO):	November 9, 2000
MODIFICATION #6 DATED(PTO):	July 22, 2005
FACILITY NAME:	SOUNDSIDE RECYCLING & MATERIALS, INC. C&D FACILITY. POWELLS POINT, CURRITUCK COUNTY, N.C.

CONSTRUCTION WASTE MATERIALS RECOVERY FACILITY
CONDITIONS OF PERMIT

1. This Permit to Operate is issued for a period not to exceed 5 December 2005, the time frame outlined by condition (3) in the "Special Use Permit" issued by Currituck County dated 13 June 2000 and amended by Letter dated 13 June 2005 from Currituck County. This permit is for the construction and operation of the Construction Waste Materials Recovery Facility and Demolition Waste Shingle transfer area as described in the approved plans and documents.

2. This facility shall be maintained and operated in accordance with all applicable Solid Waste Management rules, the approved operations plan prepared by Soundside Recycling & Materials, Inc(SRMI) and the Special Use Permit dated 16 June 2000 from the County of Currituck(enclosed and incorporated as part of this permit). Amendments or revisions to the Solid Waste Management Rules or violation of groundwater standards may necessitate the modification of the construction and operation plans or closure of this facility prior to this date. The operating and permit conditions are subject to revision at any time in the event that conditions arise which threaten the environment or public health, or that have the potential to threaten the environment or public health or as required by changes to the Special Use Permit issued by the County of Currituck.

3. Site preparation shall be in accordance with and maintained consistent with the approved site plan. The following requirements shall be met prior to and after receiving a "PERMIT TO OPERATE" from the Solid Waste Section:
   a. Site inspection shall be made by representatives of the Solid Waste Section. By accepting this permit, the applicant allows the Solid Waste Section access to the site. Along with site access, the applicant grants the Solid Waste Section the ability to take photographs for documentation and enforcement purposes to insure compliance with Solid Waste Rules, operations plan and the Permit to Operate.
   b. A revised site plan and/or revised operations plan shall be submitted if any changes are made to the facility during construction and during operations, that differ greatly from the approved application.
   c. The permit number and the words "NO HAZARDOUS OR LIQUID WASTES ACCEPTED" shall be posted on an entrance sign with the phone number of the emergency contact.

3. d. Storage area(s) for incoming construction waste and recovered materials shall be clearly identified at the site, consistent with Special Use Permit condition (4) - (3) on page 1.

4. The site shall be adequately secured by means of gates, chains, berms, fences, etc., to prevent unauthorized entry except when an operator is on duty. A sign shall be posted at the entrance to the facility containing the facility name, contact name and number, hours of operation, and permit number. An attendant shall be on duty at the site at all times while it is open for public use to assure compliance with operation requirements and to prevent entry of hazardous waste, demolition waste, municipal solid waste(MSW) and other unacceptable waste onto the site.

5. All earth-disturbing activities will be conducted in accordance with all applicable federal, state, and local requirements. Adequate erosion control measures shall be practiced to prevent silt from leaving the site in accordance with the Sedimentation Control Act, 15A NCAC 4. Temporary seeding shall be utilized as necessary to control erosion. If necessary, to prevent erosion, seeded slopes shall be covered with straw or similar material.

6. Water that comes in contact with construction waste materials or recovered materials(as listed on page 1 of the operations plan) shall be managed on-site to prevent contravention of surface or ground water standards. Ground water quality at this facility is subject to the classification and remedial action provisions of 15 NCAC 2L. Stormwater shall be managed in accordance with the approved plans.

7. Recovered materials shall be placed a minimum of two (2) feet above the seasonal high water table, if stored on the ground. The materials that are to be recovered and can be stored at this facility at this time are listed on page 1 of the approved operations plan. It is the Solid Waste Sections preference that recovered materials be placed in containers, if possible for storage prior to shipment off-site.

8. No materials will be tipped, stored, or stockpiled in standing water. Surface water shall be diverted from the operational area and not allowed to be impounded over or around waste or recovered materials.

9. Effective vector control measures shall be applied to control flies, rodents, insects, vermin, and any other potential vectors.

10. Dust and odor control measures shall be utilized to minimize emissions.

11. Open burning of solid waste is prohibited.

12. Equipment shall be provided to control accidental fires or arrangements shall be made with the local fire protection agency to immediately provide fire-fighting services when needed. All employees shall be trained in fire prevention and emergency action procedures.

13. Fires and non-conforming waste incidents shall be reported to the Regional Waste Management Specialist within twenty-four (24) hours followed by a written notification to be submitted within fifteen (15) days.

14. The Materials Recovery Facility is permitted to receive:

a. "Construction" waste materials, as defined for this facility; waste or debris resulting solely from construction, remodeling, repair, of pavement, buildings and structures.
b. "Demolition Inert Debris" waste as defined for this facility in 15A NCAC 13B .0562(1); non-painted concrete, non-painted concrete block, non-painted brick, and uncontaminated earth.
c. "Used asphalt" as provided for under N.C.G.S. §130A-309(b); used asphalt or used asphalt mixed with dirt, gravel, rock, and concrete.

15. Construction waste shall be screened in accordance with the approved waste screening plan for detection and rejection of materials that are not suitable for recovery at this facility or that may pose a threat or potential threat to public health and safety, worker safety, or the environment.

16. Personnel at this facility shall receive training necessary to carry out the waste screening program. Adequate documentation of the waste screening program, including inspection sheets, employee training records, and contingency plans shall be maintained at the facility as part of the operating record.

17. Paint and similar liquid waste materials shall be managed and stored on site in a manner to prevent release to the environment and removed from the site for disposal in an approved facility in a timely manner.

18. Unacceptable waste and non-processible waste shall be placed in containers as soon as possible and shall not remain on the tipping floor/picking area after operating hours. The unacceptable waste and non-processible waste shall be managed in accordance with Solid Waste Management Rules and the approved operations plan and disposed of at East Carolina Environmental Inc.(Permit # 08-03), Windsor, Bertie County, North Carolina thru the County of Currituck Transfer Station, the Middle Peninsula Landfill and Recycling in Glenns, Virginia as described in the operations plan on page 2 or the John C. Holland Enterprises site (State of Va. Permit #280) located in Suffolk, Va.

19. Records shall be maintained for the amount of material received, materials processed, and materials removed from the facility.

20. Tabulated monthly summary weights of incoming construction waste, along with reused or recycled materials removed from the incoming construction waste, by-pass/unacceptable waste and non-recyclable waste removed for disposal shall be submitted to the Regional Waste Management Specialist in the Washington Regional Office for review on a quarterly basis at the following address:

    Solid Waste Section
    Washington Regional Office
    1424 Carolina Ave.
    Washington, N.C. 27889
    Attn: Chuck Boyette

21. The management of new construction roofing shingles(i.e partial squares, tabs, trimmings) shall be in accordance with the operational plan.

22. Demolition shingles received shall be managed as outlined by request dated 12 March 2001 and said shingles shall be transferred to the referenced sites as identified in condition # 18. Shingles shall not be received for processing at the site unless an asbestos screening plan is submitted for review and approved by the Solid Waste Section along with the Health Hazards Branch of the Div. Of Epidemiology.

23. No grinding of shingles or other roofing products/roofing materials is allowed at this site unless it can be demonstrated the materials are new construction materials from new(present day) construction projects. No demolition materials as stated in condition #22 shall be processed(ground/shredded/pulverized) at this site.

24. The conditions stated in the "EXTENDED SPECIAL USE PERMIT GRANTED" from Currituck County dated 17 June 2002 shall be complied with and incorporated into this Permit to Operate as follows:

    a. The mulch sales storage area shall not exceed 6' in height, 30' in length and 15' in width;

    b. No storage areas for construction waste shall exceed 15' in height.

25. The permit boundaries of the approved site plan shall be identified and all materials at the site shall be placed within those limits. Expansion beyond the approved site boundaries will require approval consistent with Currituck County zoning and a modification to the Solid Waste Section permit.

ATTACHMENTS

1. Soundside Recycling & Materials original application and site drawing received 21 June 2000 that includes:
   c. Special Use Permit from Currituck County dated 16 June 2000;
   d. Letter from NHP addressing rare species, high quality natural communities dated 28 April 2000;
   e. Letter from SHPO addressing archaeological, architectural and historic sites dated 4 May 2000;
   f. FEMA FIRM map for Currituck County indicating that the proposed site is not in a 100 year floodplain;
   g. "Letters of Intent" from end users (APL Plastics and Butler Paper Recycling);
   h. Letter dated 4 January 2000 from the Lower Currituck VFD Inc.;
   i. Deed for the property and plat map with metes and bounds along with Certification by Land Owner affidavits from H.D. and Marlene Newbern;
   j. Letter of approval of revised plan dated 6 June 2000 from the Division of Land Resources/Land Quality Section;
   k. Jarvisburg USGS Quad. Sheet and Jarvisburg, N.C. wetlands inventory map.
2. Modification #1: Request dated 12 March 2001 for the construction of a concrete pad and loading ramp for the transfer of shingles, along with a site plan locating the pad on the site.
3. Modification #2: Request dated 26 March 2002 for the addition to the operations plan to include John C. Holland Enterprises, State of Va. Permit #280, as a disposal site.
4. Modification #3: Letter dated 22 April 2002, received via fax on 23 April 2002, addressing Soundside's request for an extension of time to operate the recycling facility consistent with the Special Use Permit issued 16 June 2000.
5. Modification #4: Letter dated 3 June 2002, received via fax on 3 June 2002, addressing Soundside's request for an extension of time to operate the recycling facility consistent with the Special Use Permit issued 16 June 2000.
6. Modification #5: County of Currituck - EXTENDED SPECIAL USE PERMIT GRANTED dated 17 June 2002, received via fax on 10 July 2002, addressing Soundside's request for an extension of time to operate the recycling facility consistent with the Special Use Permit issued 16 June 2000, along with additional conditions placed in the Special Use Permit and added to the facility conditions in the PTO.
7. Modification #6: County of Currituck - EXTENDED SPECIAL USE PERMIT GRANTED dated 13 June 2005, received via fax on 16 June 2005, addressing Soundside's request for an extension of time to operate the recycling facility consistent with the Special Use Permit issued 16 June 2000, along with additional conditions placed in the Special Use Permit and added to the facility conditions in the PTO.

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

Received
Solid Waste Section

IN RE:

Administrative Consent Agreement

Mr. Horatio D. Newbern, IV,
Soundside Recycling & Materials, Inc.,
Mr. and Mrs. Horatio D. Newbern III, and
Mrs. Kimberly Newbern

Permit # 27-05, Currituck County

The North Carolina Department of Environment and Natural Resources, through its Division of Waste Management, Solid Waste Section ("The Division"), and Soundside Recycling & Materials, Inc., Mr. Horatio D. Newbern, IV, Mrs. Kimberly Newbern, Mr. Horatio D. Newbern III, and Mrs. Marlene H. Newbern, hereby enter this Administrative Consent Agreement. The purpose of this Agreement is to address the outstanding compliance issues at the solid waste management facility located at 7576 Caratoke Highway, Poplar Branch Township in Powells Point, North Carolina, Currituck County. The term "Parties" as used herein means Soundside Recycling & Materials, Inc., Mr. Horatio D. Newbern, IV, Mrs. Kimberly Newbern, Mr. Horatio D. Newbern III, and Mrs. Marlene H. Newbern.

I. Stipulation of Facts:

Based upon information available at the effective date of this Agreement, the following facts are stipulated:

1. Mr. Horatio D. Newbern III, his wife, Mrs. Marlene H. Newbern, and Soundside Recycling & Materials, Inc., are the named permit holders on Permit #27-05, which was issued to allow the operation of a solid waste management facility on property located at 7576 Caratoke Highway, Poplar Branch Township in Powells Point, North Carolina, Currituck County, hereinafter referred to the "Facility." The permit was originally issued in the year 2000 and subsequently modified in 2002 and 2005. Mr. Horatio D. Newbern, IV, is the vice-president and secretary of the corporation, and Mrs. Kimberly Newbern is the president. Both Mr. Horatio D. Newbern, IV and Mrs. Kimberly Newbern are responsible for the operations of the Facility, including decisions concerning compliance with the permit conditions and solid waste management statutes and regulations. Mr. Horatio D. Newbern III and Mrs. Marlene H. Newbern are the landowners of the Facility and signed Certification by Land Owner affidavits acknowledging ownership of the land and potential liability for operations at the Facility. The permit expired on December 5, 2005. An application for a permit renewal is pending.

2. On November 8, 2006, Mr. Chuck Boyette, Waste Management Specialist, with NCDENR Division of Waste Management, Solid Waste Section, inspected the Facility. During this inspection violations were noted and discussed with Mr. Horatio D. Newbern, IV. Pictures

were taken to document the violations. Mr. Boyette included in his inspection report a Notice of Violation (signed for by Mr. Newbern on November 29, 2006) for exceeding pile heights limits and for piling waste outside of the permitted boundaries. The deadline for correcting these violations was within 30 days of receipt of the Notice of Violation.

3. On December 14, 2006, Mr. Boyette went to the site to check on the status of the violations from November 8, 2006, and found that the violations had not been corrected.

4. On January 11, 2007, Mr. Boyette returned to the Facility to take additional pictures and to discuss and compare the actual operation with the approved operation plan. The approved operation plan required that gypsum board be ground on a daily basis. Mr. Boyette observed gypsum board stock-piled on the site. Mr. Horatio D. Newbern, IV stated that they were not grinding the gypsum board on a daily basis.

5. On January 18, 2007, Mr. Boyette and Mr. John Crowder, Eastern Area Supervisor with the Division of Waste Management, visited the facility to again check on the status of the Facility's compliance. Mrs. Kimberly Newbern, President of Soundside Recycling & Materials, Inc., was present for part of the inspection. As noted in the Notice of Violation dated November 8, 2006, the Facility operators had piled waste materials in an area outside of the permitted boundaries of the Facility. Mr. Boyette and Mr. Crowder saw that most of this waste had been removed and that the area had been leveled off.

6. Mr. Boyette and Mr. Crowder then reviewed the ongoing Facility operations and compared them with the approved operations plan. They found the following inconsistencies:

a) Paragraph one of the approved operation plan states that the "operations and stockpiles will be 100 feet from all buildings, wells, and surface waters." This requirement was not being followed. A berm on the site measuring approximately 60 feet x 755 feet x 25 feet and consisting of mixed processed or chipped wood waste, including wood chips, ground plywood, particle board and other "engineered-type" wood waste chips, was located approximately 60 feet from one of the wells located on the north side of the office. In addition, the berm was located less than 60 feet from the office, approximately 80 feet from a restaurant and less than 60 feet from a double wide mobile home used apparently as residence. This restaurant and residence was located on the south side of the facility office. In summary, operations were located less than 100 feet from a well and three buildings.

b) Paragraph four of the approved operation plan states that "non-treated wood will be stockpiled up to a month before it is loaded into the grinder to be shredded, and then either composted or colored for mulch in the Becker Underwood Second Harvester colorizer." The operational plan does not list engineered wood products (e.g. plywood, oriented strand board, and particle board) as a material to be recycled in this manner and does not address the management of engineered wood products at the Facility. The berm described above, as well as many of the piles of ground wood that are either composted or sold as mulch, however, contained visible pieces of plywood, oriented strand board, and particle board. These engineered wood products contain phenolic and formaldehyde based resins and are not considered suitable

for mulch or compost products. Treated and engineered wood products were being processed in violation of the operation plan.

c) Paragraph four of the approved operation plan states that, "gypsum board will be shredded daily in the grinder, and either composted or land applied promptly after it is received to reduce the chance it will get wet." The Division inspectors saw two large piles containing gypsum that had not been ground. The first pile located on the south side of the site measured 130 ft. by 30 ft. by 25 ft. The second pile located on the east side of the site was mixed with wood, paper, plastics, soil, shingles, metal and various other material and was approximately 140 ft. by 50 ft. by 20 ft. Mr. Newbern IV, admitted that they were not grinding gypsum board on a daily basis. This part of the plan was not being followed.

7. Mr. Boyette and Mr. Crowder also compared the location of the on-site activities with the approved site plan, which included a mapped layout of the approved locations for conducting operations at the Facility including, among others, sorting, grinding, and storage activities. The following problems were seen:

a) Indicated on the plan was a composting operation on the south side of the facility. During the site visit on January 18, 2007, there was no sign of this operation. Instead, located in this designated compost area was a stockpile of ground mixed waste. The mixed wood waste included treated wood, engineered wood products (e.g. plywood, oriented strand board, and particle board) and untreated wood.

b) During the inspection on January 18, 2007, there was a pile of crushed concrete measuring approximately 75 ft. by 30 ft. by 12 ft. and located towards the southeast of the Facility. This pile was not indicated on the plan, nor was the management of this material described in the approved operation plan.

c) Wood piles, including ground wood waste, separated plywood and other engineered wood products, were not being stored or staged in the locations consistent with the approved plan.

8. As of the effective date of this Administrative Consent Agreement, the Facility is out of compliance with North Carolina Solid Waste Management Act, N.C.G.S. 130A, Article 9, and Rules, codified at 15A NCAC 13B, and permit conditions.

II. Stipulation of Violations:

1. 15A NCAC 13B .0302(1) states that, "Operational plans shall be approved and followed as specified for the facility."

The Parties have violated this rule by not abiding by the operational plan in the ways set forth above in paragraph 6, subsections (a), (b), & (c).

2. Permit Condition No. 3 of Permit 27-05 provides that "Site preparation shall be in accordance with and maintained consistent with the approved site plan."

The Parties have violated this permit condition by failing to conduct activities in accordance with the approved site plan in the ways set forth above in paragraph 7, subparagraphs (a), (b), & (c).

III. Scope of Work

The Parties agree to perform and shall perform the following actions in order to achieve compliance:

1. The Parties shall immediately cease grinding engineered wood products, including plywood, oriented strand board, and particle board, as well grinding CCA (chromium, copper, arsenic) treated wood products.

2. The Parties shall remove the berm composed of ground or chipped engineered wood from the perimeter of the site by July 1, 2008, unless an extension is granted by the Division of Waste Management. Progress reports shall be provided every 3 months beginning September 1, 2007 to insure that at least one-quarter of the berm is remove during each three-month period. Division staff will meet you on the site to confirm that markers have been placed indicating the four divisions in the berm. These markers shall remain in place until the entire berm has been removed. Failure to meet the quarterly goals shall result in closure of the facility until the quarterly goals have been met and confirmed by the Division. Furthermore, if the quarterly goals are not met the Division may initiate further compliance action.

3. The Parties shall immediately begin processing gypsum board on a daily basis.

4. Within 120 calendar days of execution of this Agreement, the Parties shall achieve complete compliance with the approved Facility operation plan, the Facility site plan, and all solid waste management rules applicable to the Facility.

5. The Parties shall submit to the Division a monthly report summarizing work completed at the Facility.

6. Within 30 days of satisfactory completion of all the conditions for compliance, the Parties shall submit a final report. The Division shall review the report and may request more information or additional tasks as it deems necessary.

7. All reports and questions shall be submitted and directed to:

Charles Boyette, Environmental Senior Specialist
Solid Waste section, Division of Waste Management
943 Washington Square Mall
Washington, NC 27889
(252) 948-3913

IV. Access Availability:

The Division shall have the authority to enter and freely move about all property at the Site at all reasonable times for the purposes of, inter alia, inspecting non-privileged records, operating logs, and contracts related to work under this Administrative Consent Agreement and reviewing the progress of the parties in carrying out the terms of this Administrative Consent Agreement. The Parties shall permit such persons to inspect and copy all non-privileged records, files, photographs, documents, and other writings including all sampling and monitoring data, in any way pertaining to work undertaken pursuant to this Administrative Consent Agreement. Documents subject to the attorney-client privilege or attorney work product doctrine are not subject to inspection and copying.

V. Potential Consequences of Failure to Comply; Penalties and Enforcement

The Parties acknowledge that, pursuant to N.C.G.S. 130A-22, each day of a continued violation of any requirement of the North Carolina Solid Waste Management Act, the solid waste management rules, or any order issued under the act or rules constitutes a separate violation for which a penalty of up to $5,000.00 per day may be imposed. By entering into this Agreement, the Division has not waived any right to assess a penalty for the violations set forth herein, nor has the Division waived any right to assess a penalty for any other violation not specifically set forth herein. The Parties further acknowledge that each may also be subject to further enforcement actions, including but not limited to a lawsuit for injunctive relief, as may be necessary to achieve compliance with the North Carolina Solid Waste Management Act and Rules.

VI. Landowner Acknowledgment

The landowners, Mr. and Mrs. Horatio Newbern III, acknowledge and understand that the failure of the Facility to operate in accordance with the solid waste management statutes and regulations, as well as permit conditions, subjects the landowners to potential liability under North Carolina solid waste management laws. The landowners specifically acknowledge that the failure of the Facility to remain financially solvent and meet its operational obligations, may result in its closure and that the landowners bear joint and several liability with the Facility operators for the proper closure of the Facility. Closure of the Facility would include, at a minimum, the removal of all accumulated waste, and may also include groundwater monitoring, surface water monitoring, and other monitoring or testing as may be necessary. The landowners further acknowledge that there may be other federal, state, or local environmental laws, or other laws, applicable to the activities or occurrences on their property and that it is not the intent of this Paragraph to set forth all potentially applicable laws.

This Agreement is hereby entered into on the 3rd day of August, 2007, which serves as the effective date of this Agreement.

FOR THE DIVISION:

By: _____
Dexter R. Matthews, Director

Division of Waste Management
N.C. Department of Environment
and Natural Resources

By: _____
Horatio D. Newbern, IV
7565 Caratoke Hwy
Jarvisburg, North Carolina 27947

State of North Carolina, County of Currituck

Sworn to and subscribed before me this 27 day of July, 2007.

Deborah H Burge
Notary Public
My Commission Expires: 11/3/2010

By: _____
Kimberly Newbern
7565 Caratoke Hwy
Jarvisburg, North Carolina 27947

State of North Carolina, County of Currituck

Sworn to and subscribed before me this 27 day of July, 2007.

Deborah H. Burge
Notary Public
My Commission Expires: 11/3/2010

By: _____
Horatio D. Newbern, III
7565 Caratoke Hwy
Jarvisburg, North Carolina 27947

State of North Carolina, County of Currituck

Sworn to and subscribed before me this 27 day of July, 2007.

Deborah H. Burge
Notary Public
My Commission Expires: 11/3/2010

By: _____
Marlene Newbern
7565 Caratoke Hwy

Jarvisburg, North Carolina 27947

State of North Carolina, County of Currituck

Sworn to and subscribed before me this 27 day of July, 2007.

Deborah H. Burge
Notary Public
My Commission Expires: 11/3/2010

By: Soundside Recycling & Materials, Inc.

(Corporate Seal)

By: Horatio D. Newbern IV
Vice President (print)

Vice President (signature) 7-26-07
Date

ATTEST: Horatio D. Newbern IV
Corporate Secretary (print)

Corporate Secretary (signature) 7-26-07
Date

State of North Carolina
County of Currituck
I, Deborah H. Burge, a Notary Public for said County and State do hereby certify that Horatio D. Newbern IV (name of Corporate Secretary) personally appeared before me this day and acknowledged that he (she) is the Secretary of Soundside Recycling and Materials, Inc., a corporation, and that by authority duly given and as the act of the corporation, the forgoing instrument was signed in its name by its Horatio D. Newbern IV (President or Vice President), sealed with its corporate seal, and attested by himself (herself) as its Secretary. Witness my hand and official seal, this the 27 day of July, 2007.

Deborah H. Burge
(Notary Public)

My Commission expires: 11/3/2010

(SEAL)

NCDENR

North Carolina Department of Environment and Natural Resources

Dexter R. Matthews, Director | **Division of Waste Management** | Michael F. Easley, Governor
William G. Ross Jr., Secretary

September 11, 2008

Mr. Racy Newbern
Soundside Recycling
7565 Caratoke Hwy
Jarvisburg NC 27947

Dear Mr. Newbern:

The Division of Waste Management, Solid Waste Section, has reviewed your request to manage aged poultry manure and a seafood processing waste at your Solid Waste Pilot Composting Project in Currituck County. Your request to add these materials and the manner in which they will be managed is considered approved with the following conditions. This approval is for approximately 150 tons of poultry manure from Roper, NC and approximately 5 tons per week of seafood processing waste from JH Miles Seafood in Norfolk, Va. The approval for these feedstocks is limited to a three month duration from the date of this letter. An additional approval may be obtained prior to the end of the three month trial if requested in writing. The poultry manure and seafood processing waste shall be incorporated into the windrows immediately upon receipt and shall be limited to the volumes listed in the request letter. The Division shall rescind this approval at any time if the addition of these feedstocks proves to be problematic. These changes will be incorporated into your Solid Waste Composting Pilot Project.

If you have questions concerning this approval please contact me at (919) 508-8508.

Sincerely,

Michael E. Scott

Michael E. Scott
Branch Head, Composting and land Application Branch

cc: Chuck Boyette, Environmental Senior Specialist

h:cla/compost/demo/approval/27-currituck/modification0908

Attachment B

Property Description

JUN 2000
Section

33

BOOK 172 PAGE 325

NORTH CAROLINA

CURRITUCK COUNTY

THIS DEED, made this the 18th day of October 1979, by H. D. NEWBERN, JR. and wife, DELLA C. NEWBERN, Parties of the First Part, to H. D. NEWBERN, III and wife, MARLENE H. NEWBERN, Powells Point, North Carolina 27966, Parties of the Second Part;

W I T N E S S E T H:

That said Parties of the First Part, for and in consideration of TEN DOLLARS ($10.00), and other valuable considerations, to them paid by the Parties of the Second Part, receipt of which is hereby acknowledged, have bargained and sold, and by these presents do bargain, sell, give, grant, and convey unto the said Parties of the Second Part, their heirs and assigns, all those certain lots or parcels of land situate in Poplar Branch Township, Currituck County, North Carolina, described as follows:

STATE OF NORTH CAROLINA REAL ESTATE EXCISE TAX $20.00

FIRST TRACT: A certain tract or parcel of land containing four and one-half (4-1/2) acres, more or less, bounded on the west by the lands of Finley S. Newbern, formerly the lands belonging to W. M. Harrison; on the east by Tract Two as is hereinafter described; on the north by the lands of John and Martha Newbern, and on the south by the lands of H. D. Newbern, Jr. This tract is known as the "Bettie Bright Place" and was conveyed to the Parties of the First Part by deed of W. N. Newbern and wife, Verdie Barrow Newbern, dated July 13, 1955 and is recorded in Deed Book 87, Page 114 in the office of the Register of Deeds of Currituck County.

SECOND TRACT: Lot No. Twelve (12) as shown on a plat or survey made by Shearin and Traylor, dated November 29, 1951, said plat being filed for record in the office of the Register of Deeds in Map Book 1 at Page 89. Reference is expressly made thereto for a more complete description of the property herein described. The property herein described was conveyed to H. D. Newbern, Jr. by deed recorded in Deed Book 82, Page 279.

THIRD TRACT: Lots Nos. Three (3), Four (4), Five (5), Six (6), Seven (7), Eight (8), Nine (9), Ten (10), and Eleven (11) as shown on a plat made by Shearin and Traylor, dated November 29, 1951, filed for record in the office of the Register of Deeds of Currituck County in Map Book 1, Page 89, reference being expressly made thereto for a more complete description of the property described herein. The property described herein as the Third Tract was conveyed to the Parties

LAW OFFICES
WHITE, HALL, MULLEN, BRUMSEY & SMALL
501 E. Main Street
ELIZABETH CITY, N. C.

of the First Part as follows: Lots Three (3) through Seven (7) by deed recorded in Deed Book 83 at Page 492; Lot Eight (8) by deed recorded in Deed Book 84, Page 504; Lots Nine (9) and Ten (10) by deed recorded in Deed Book 87, Page 115 and Lot Eleven (11) by deed recorded in Deed Book 89, Page 477.

TO HAVE AND TO HOLD the aforesaid lots or parcels of land, together with all privileges and appurtenances thereto belonging unto the Parties of the Second Part, their heirs and assigns, in fee simple.

Said Parties of the First Part covenant to and with the Parties of the Second Part, their heirs and assigns, that they are seized of said land in fee, and have the right to so convey the same in fee simple; that the said land is free and clear of all encumbrances; and that they do hereby warrant and will forever defend the title to the same against the lawful claims of all persons whomsoever.

IN WITNESS WHEREOF, the said Parties of the First Part have hereunto set their hands and seals the day and year first above written.

H. D. Newbern, Jr. (SEAL)

Della C. Newbern (SEAL)

STATE OF NORTH CAROLINA

COUNTY OF Currituck

I, the undersigned Notary Public, do hereby certify that H. D. Newbern and wife, Della C. Newbern, personally came before me this day and acknowledged the due execution of the foregoing instrument.

WITNESS my hand and notarial seal this 18th day of October, 1979.

Notary Public

LAW OFFICES
WHITE, HALL, MULLEN,
BRUMSEY & SHAW
501 E. Main Street
ELIZABETH CITY, N. C.

My commission expires:
July 18, 1981.

NORTH CAROLINA

BOOK 172 PAGE 327

CURRITUCK COUNTY

The foregoing or annexed certificate of Cornell S. Dzwonek (nee Sawyer), a Notary Public of Currituck County, State of North Carolina, is certified to be correct.

This 7th day of November, 1980. ~~1979~~.

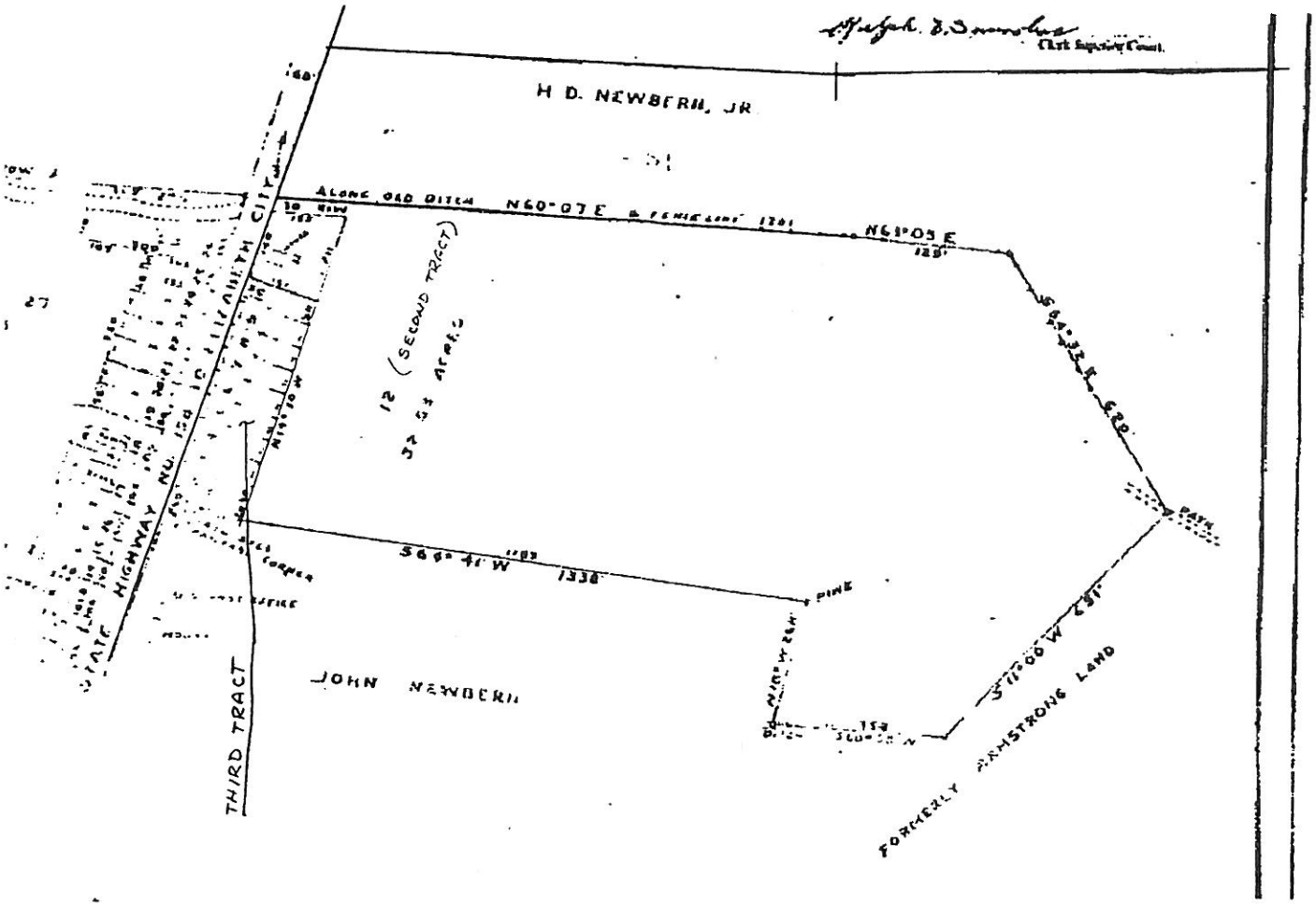
Linda H. Patrick
Register of Deeds

Filed for registration on the 7 day of November 1980 at 2:30 o'clock P.M.

Linda H. Patrick
Register of Deeds

By: _____
Assistant Register of Deeds

LAW OFFICES
WHITE, HALL, MULLEN,
BRUMSEY & SMALL
501 E. Main Street
ELIZABETH CITY, N. C.


Clerk Superior Court.
H. D. NEWBERN, JR.
ALONG OLD DITCH N60°07'E
N61°05'E
S64°35'E 678'
PARK
S11°00'W 251'
FORMERLY ARMSTRONG LAND
PINE
S66°41'W 1338'
JOHN NEWBERN
THIRD TRACT
12 (SECOND TRACT)
32.53 ACRES
STATE HIGHWAY NO. 150 TO ELIZABETH CITY

E1713-350 Barco-Point Harbor Line

100

STATE OF NORTH CAROLINA
COUNTY OF Currituck

Virginia Electric and Power Company.
North Carolina—Standard Easement Form No. 3a.
Individual—Transmission Line.
5-1-49.

THIS AGREEMENT, Made this 7TH day of JUNE, 19 57, by and between H. D. Newbern, Jr., and Della S. Newbern, His wife,

of Currituck County, North Carolina, parties of the first part, hereinafter sometimes called the "Owner" (the word "Owner" wherever used herein being intended to include the parties of the first part whether one or more, but for convenience being used in the singular form), and Virginia Electric and Power Company, a corporation duly organized and doing business under the laws of Virginia, and qualified to do business under the laws of North Carolina, party of the second part, hereinafter sometimes called the "Company."

WITNESSETH:

That in consideration of the sum of One Hundred and no/100 Dollars ($100.00), cash in hand paid unto the Owner, the receipt whereof is hereby acknowledged, and for other good and valuable considerations, the Owner grants unto the Company, its successors and assigns, the perpetual right, privilege and easement of right of way Fifty (50) feet in width, to construct, operate and maintain one or more pole and/or tower lines, as the Company may from time to time deem expedient or advisable, for the purpose of transmitting power by electricity and supporting telephone wires, including all wires, poles, towers, attachments, ground connections, equipment and accessories desirable in connection therewith, over, upon and across the lands and property of the Owner, situated in Poplar Branch Township, Currituck County, North Carolina, as shown on plan marked No. 100, hereto attached and made a part of this agreement; the location of the center line of said right of way being shown on said plan and being described as follows:

Beginning at Station 875 plus 74.6 in the property line dividing property of Owner and that of John and Martha Newbern, which point is in the center line of a ditch and is N. 64° 30' E. 604.1 feet along said property line from its intersection with the center line of U. S. Highway Route No. 158; thence S. 5° 28' E. 750.6 feet to Station 883 plus 25.2 in the property line dividing property of Owner and that of W. N. and Verdie B. Newbern, which point is N. 64° 30' E. 481.8 feet along said property line from a 36-inch pine tree. It being the intention of the Owner to convey to the Company, by the foregoing description, an easement over all property of Owner lying within the outer boundaries of a right of way 50 feet in width, as shown on said attached plan.

It is agreed between the parties hereto that the poles, towers, wires, attachments, equipment and accessories erected hereunder shall be and remain the property of the Company; that no charge shall at any time be made for the use of the property occupied by the Company, or for the privilege of constructing, maintaining and operating said towers, poles and lines; that the Company, its agents and employees shall at all times have full and free ingress to and egress from said right of way over such roads as may exist on the Owner's property, and if there are no roads reasonably convenient to said right of way the Company, its agents and employees shall have such right of ingress and egress over the Owner's property as may be reasonably convenient to and from said right of way, in order to construct and efficiently maintain said towers, pole lines and appurtenances, with the right to inspect, rebuild, repair, improve, re-locate along the route above described, remove, make extensions or additions thereto, and make such changes, alterations and substitutions in said lines, wires, poles and/or towers, attachments, equipment and accessories, as the Company may from time to time deem advisable or expedient, including the right to increase or decrease the number of wires; with the further right to trim, cut and keep clear all trees, limbs and undergrowth and other obstructions for the entire width of the right of way herein conveyed and hereinbefore described; with the further right to cut and keep clear of said structures, wires and lines all trees, limbs and other obstructions outside of the designated width of said right of way that may in the opinion of the Company endanger or interfere with the proper and efficient operation of the same; together with all the rights and privileges reasonably necessary or convenient for the full enjoyment or use, for any of the aforesaid purposes, of the right of way hereby granted.

APPROVED. [illegible] REAL ESTATE DEPT.

The cash consideration hereinbefore mentioned is paid by the Company and accepted by Owner as full and total payment for the right of way, damages and all trees, limbs, undergrowth and other obstructions cut or removed inside and outside of said designated width of the right of way during construction of the Company's lines and such as may be cut or removed within a period of six months after Company's lines on said right of way have been put into operation. All trees thereafter cut or removed by Company from Owner's property outside of said right of way will be paid for by Company at the local market value. The amount to be so paid shall be determined by measurement of said timber according to Doyle's scale. It is expressly understood that all trees, limbs and undergrowth cut by the Company at any time shall be and remain the property of the Owner.

Form Approved: [illegible] ASSISTANT COUNSEL

The Owner, his or her successors and assigns, in further consideration of the premises and of the said sum of money, does hereby relieve and release the said Company, its successors and assigns, from all claims for damages in any manner arising out of the presence upon said land of said line or lines, apparatus and appliances or by reason of repairs, additions and extensions thereto, and the transmission of electric current thereon and thereby.

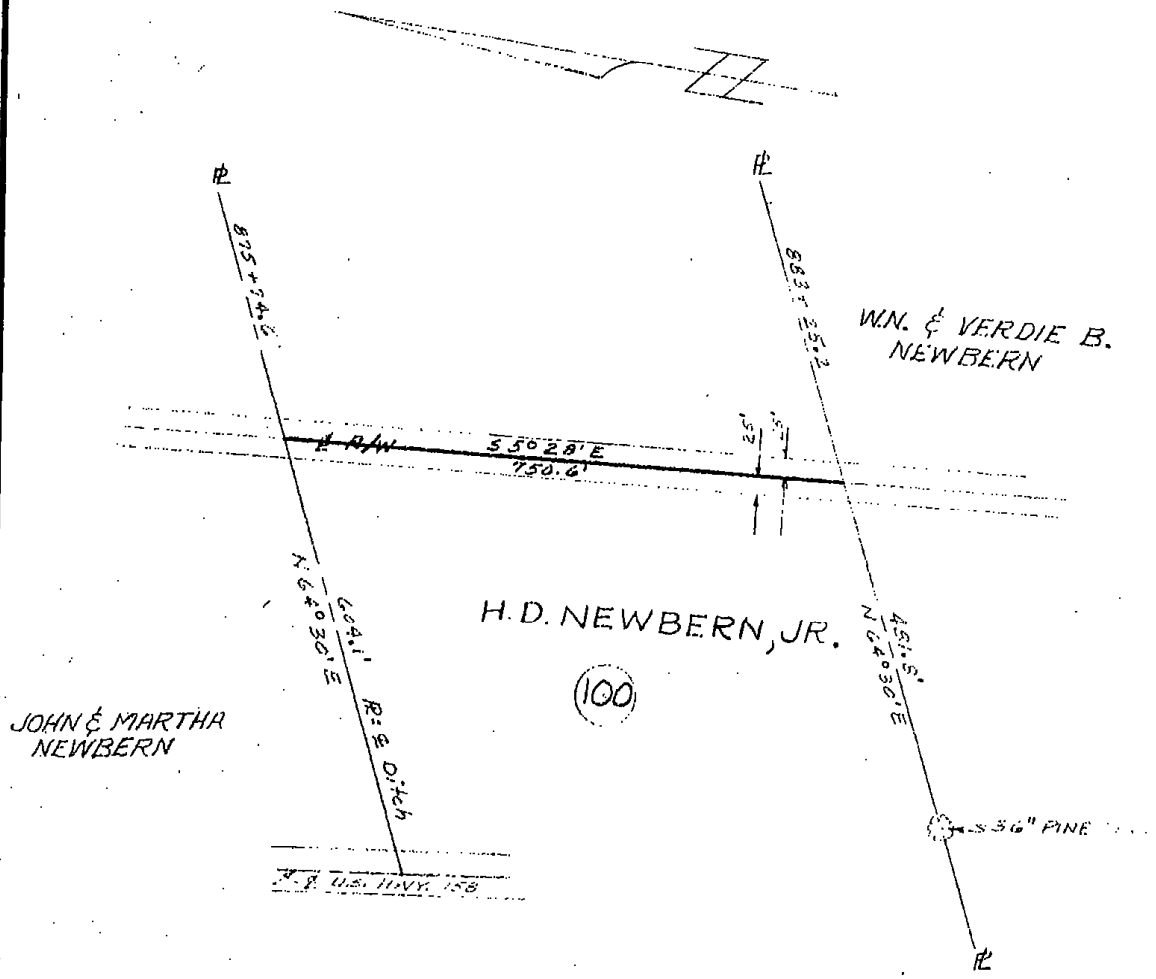
The Owner reserves the right to use the land hereinbefore described upon which the said transmission line or lines may be erected, for agricultural or any other purposes not inconsistent with the rights hereby granted, provided such use shall not injure, endanger or interfere with the proper operation, maintenance, or repair of, or extension or addition to, the said line or lines, and no roads or streets shall be constructed or maintained thereon except such as shall cross said right of way at approximately right angles in such a manner as not to interfere with or endanger the towers, poles, wires, guy wires, braces and appurtenances of Company; and, provided further, that no buildings or structures other than fences may be erected upon the said land by the Owner, his or her successors and assigns.

The Owner covenants that he or she has the right to convey the said easement; that the Company shall have quiet and peaceable possession, use and enjoyment of the said easement, and that the Owner will execute such further assurances of the said easement as may be requisite.

WITNESS the following signature~~s~~ and seal~~s~~:

H. D. Newberry Jr. (SEAL)

Della S. Newberry (SEAL)



VIRGINIA ELECTRIC & POWER CO.

BARCO — POINT HARBOR

PLAT TO ACCOMPANY RIGHT-OF-WAY AGREEMENT WITH

H. D. NEWBERN, JR.

TOWNSHIP	COUNTY	STATE
POPLAR BRANCH	CURRITUCK	N.C.

SCALE: 1 INCH- 200 FT.

SURVEYED BY H.A.SPALDING

Nº 100

SHEET NO.

DRAWER NO.

STATE OF NORTH CAROLINA }
COUNTY OF Currituck }

I, Walter D. Tillery, a Notary Public within and for ~~said County and State,~~ Halifax County do hereby certify that H. D. Meadows, Jr. and Della S. Meadows

personally appeared before me this day and acknowledged the execution of the foregoing instrument.

Witness my hand and notarial seal, this 7th day of June, 1951.

My commission expires 17 January 1952

Walter D. Tillery,
Notary Public.

STATE OF NORTH CAROLINA }
COUNTY OF Currituck }

The foregoing certificate of Walter D. Tillery, a Notary Public of Halifax County, is adjudged to be correct. Let the instrument, with the certificate, be registered.

Witness my hand and ~~seal,~~ this 25 day of July, 1951.

Ralph E. Saunders,
Clerk Superior Court.

STATE OF NORTH CAROLINA

COUNTY OF.....

.....

.....

TO

VIRGINIA ELECTRIC AND POWER COMPANY

RIGHT OF WAY

Filed for registration on the 25 day of August, 1951, at 11 o'clock A. M., and registered in the office of the Register of Deeds for Currituck County, N. C., this 25 day of August, 1951, at 1 o'clock P. M., in Book 80 of Deeds, on Page 547, etc.

Edna L. Blossom
Register of Deeds.

FORM M-220-1

THIS IS TO CERTIFY unto the Virginia Electric and Power Company that the record title to the real estate described in Schedule A, hereto attached as a part hereof, being

Parcel #100, BRETL

has been examined to this date, and found to be vested in

U. D. Newbern Jr.

whose estate or interest is

Fee

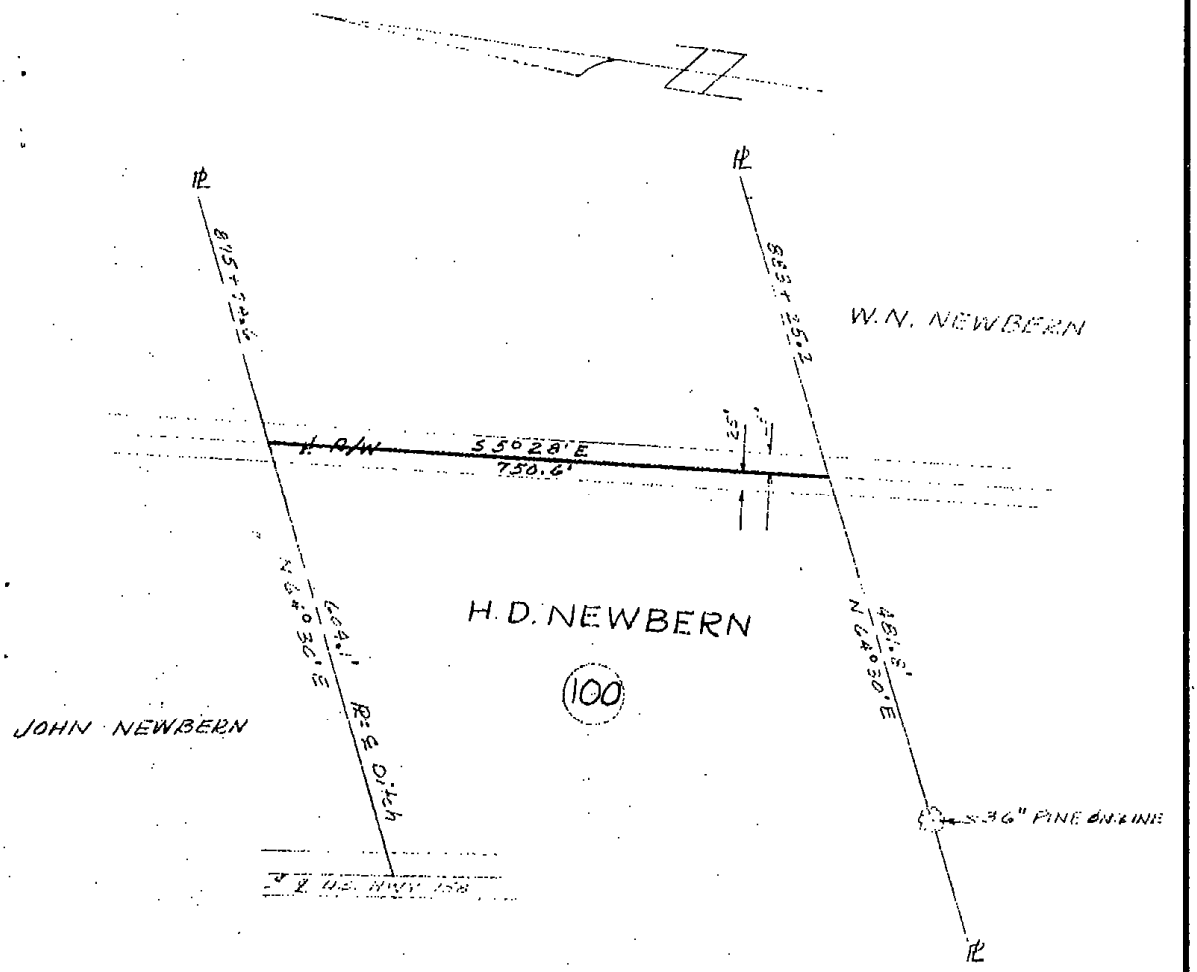
and found to be free from material recorded objections, except as mentioned below, under the designation objections.

OBJECTIONS:

1. D. T. 28 - 363 — Released. C.M.M.

SPRUILL AND SPRUILL

4/25/51



VIRGINIA ELECTRIC & POWER CO.

BARCO — POINT HARBOR

PLAT TO ACCOMPANY RIGHT-OF-WAY AGREEMENT WITH

H. D. NEWBERN

TOWNSHIP	COUNTY	STATE
POPLAR BRANCH	CURRITUCK	N.C.

SCALE: 1 INCH- 200 FT.

SURVEYED BY H.A. SPALDING

No. 100

SHEET NO.

DRAWER NO.

BANGER" No. 1951 K&E CO., N.Y.

Grantor H. D. Newborn and wife Fannie

Grantee So. Trust Co. Trustee for VCJS Land Bank

Book 21 Page 182 Record Date 12-27-24

County Currituck Indexed

Instrument D. T.

Date 12-1-24

$ 3500

Maturity 66 sem. an. inst.

Estate D. F.

Wife a party?

Seal Probate

Defects?

Recitals and Description:

Same as 65 - 123 and as 1 in 68 - 237

Foreclosed 9-9-29 Deed to VCJS Land Bank 9-21-29

Spruill & Spruill, Attorneys
Rocky Mount, N. C.

Grantor: Southern Trust Co. Trustee

Grantee: Va-Carolina J. S. Land Bank

Book: 65 Page: 123 Record Date: 1-25-30

County: Currituck Indexed:

Instrument:

Date: 9-31-29

$:

Maturity:

Estate:

Wife a party?:

Seal: Probate:

Defects?:

Recitals and Description:

Recites 12-1-24 H. D. Newbern and wife gave d. t. (Book and page not given); default and foreclosure

Mill Tract ref. to in deeds as 100 acre tract but shown by survey to be 88 acres beginning Albemarle Sound at line of C. D. Newbern thence N. 63 E. 23 chains thence S. 67 E. 5 chains thence N. 71 E. 6.60 chains to road thence across road and N. about 6 chains thence N. 64 E. 31.75 chains to pine, Sanderson's corner thence S. 26 E. 16 chains to corner thence S. 64 W. 20 chains thence N. 27 W. 4.82 chains thence 69 W. 12.90 chains to road and across road thence S. 15 W. 3 chains thence S. 78 W. 4.65 chains thence S. 56 W. 19 chains along ditch and down swamp to Sound thence various courses of Sound Shore beginning containing 88 acres.

Spruill & Spruill, Attorneys
Rocky Mount, N. C.

Grantor: Virginia Carolina JS Land Bank	Instrument: Deed
	Date: 1-1-50
	$: 10
Grantee: F. A. Newbern	Maturity:
	Estate:
	Wife a party?
Book: 65 Page: 184 Record Date: 1-25-50	Seal: Probate:
County: Currituck Indexed:	Defects?

Recitals and Description:

Same as 1, 2 and 3 in 68 - 237

Note: The pertinent tract is #1

Spruill & Spruill, Attorneys
Rocky Mount, N. C.

Grantor P. A. Newbern and wife Agnes	Instrument D. T.
	Date 1-1-30
	$ 17,000
Grantee So. Trust Co. Trustee for VCJS Land Bank	Maturity 65 sem. an. inst.
	Estate
	Wife a party?
Book 25 Page 506 Record Date 1-25-30	Seal Probate
County Currituck Indexed	Defects?

Recitals and Description:

Same as first 5 tracts in 68 - 237

Foreclosed

Deed to Land Bank 4-21-33

Note: The pertinent tract is #1 in 68 - 237

Spruill & Spruill, Attorneys
Rocky Mount, N. C.

Grantor P. A. Dowborn and wife Agnes	Instrument D. T.
	Date 1-1-30
	$ 4300
Grantee So. Trust Co. Trustee for V-C J. S. Land Bk.	Maturity 1-1-31
	Estate
	Wife a party?
Book 25 Page 508 Record Date 1-25-30 4 p. m.	Seal Probate
County Currituck Indexed	Defects?

Recitals and Description:

Same as 25 - 506

Note: this is a 2nd mortgage.

Spruill & Spruill, Attorneys
Rocky Mount, N. C.

Grantor So. Loan & Ins. Co. Trustee (formerly So. Trust Co.)	Instrument Deed
	Date 4-21-33
	$ 7000
Grantee V. C. J. S. Land Bank	Maturity
	Estate
	Wife a party?
Book 66 Page 530 Record Date 5-2-33	Seal Probate
County Currituck Indexed	Defects?

Recitals and Description:

Recites deed of trust 25 - 507 (506)

Default and foreclosure

Same as first 5 tracts in 68 - 237

Note: The pertinent tract is #1 in 68 - 237

Spruill & Spruill, Attorneys
Rocky Mount, N. C.

Grantor VCJS Land Bank

Grantee H. D. Newborn Jr.

Book 68 Page 237 Record Date 9-3-36

County Currituck Indexed

Instrument W. D.

Date 9-1-36

$ 100 plus

Maturity

Estate Fee

Wife a party?

Seal Probate

Defects?

Recitals and Description:

1 - Mill Tract ref. to as 100 acres but shown by survey to be 88 a. beginning Albemarle Sound C. D. Newborn line thence N. 63 E. 23 chains thence S. 67 E. 5 chains thence N. 71 E. 6.6 chains to road thence across road and N. a bout 6 chains thence N. 64 E. 31.75 chains to pine Sanderson corner thence S. 26 E. 16 chains thence S. 6 and W. 20 chains thence N. 27 W. 4.82 chains thence S. 69 W. 12.9 chains to and across road thence S. 15 W. 3 chains thence S. 78 W. 4.65 chains thence S. 56 W. 19 chains along ditch and down swamp to sound thence various courses of shore beginning containing 88 acres.

2 - 93.20 acres not pertinent

3 - 135 acres not pertinent

4 - 57.28 acres not pertinent

5 - 52½ acres not pertinent

6 - Etheridge not pertinent

Note: The pertinent tract is #1.

Spruill & Spruill, Attorneys
Rocky Mount, N. C.

Grantor H. D. Newborn Jr.

Grantee Southern Loan & Ins. Co. Trustee for VCJS Land Bank

Book 28 Page 363 Record Date 9-3-36

County Currituck Indexed

Instrument D. T.

Date 9-1-36

$ 14,400

Maturity 9-1-46

Estate

Wife a party?

Seal Probate

Defects?

Recitals and Description:

Open

Same as 68 - 257

Spruill & Spruill, Attorneys
Rocky Mount, N. C.

Grantor H. D. Newbern Jr. and wife Dolla Clark

Grantee Standard Oil Co. of N. J.

Book 74 Page 95 Record Date 11-24-44

County Currituck Indexed

Instrument Oil lease

Date 6-20-44

$ 1.00

Maturity

Estate

Wife a party?

Seal Probate

Defects?

Recitals and Description:

Same as 68 - 237

Spruill & Spruill, Attorneys
Rocky Mount, N. C.

Grantor H. D. Newbern, Jr. and wife Della Clair	Instrument Oil Lease
	Date 6-18-47
	$
Grantee Gulf Oil Corp.	Maturity
	Estate
	Wife a party?
Book 77 Page 213 Record Date 7-2-47	Seal Probate
County Currituck Indexed	Defects?

Recitals and Description:

Same as 68 - 237

Also

40.30 acres (73-461)

100 acres Partridge Tract (73-463)
(76-203)

Spruill & Spruill, Attorneys
Rocky Mount, N. C.

Shoulder Point / Kubel
139 137

NORTH CAROLINA

CURRITUCK COUNTY

This is to certify that I am a Public Official of Currituck County, N. C. to wit: Register of Deeds and that as such officer I have the custody of the records of deeds, mortgages, deeds of trust and other land records and conveyances in my office and that the attached 10 pages are true and perfect copies of the orginial recorded instrument attached as appears in the office of the undersigned in Book 174, Page 918 thru 927 and the date of recordation of such instrument is correctly shown thereon and such instrument is an instrument of the type and kind entitled to recordation in my office.

Given under my hand and official seal this 5 day of May, 1981.

Charlene Y. Dowdy
REGISTER OF DEEDS

Rebecca B. Sanderlin
DEPUTY REGISTER OF DEEDS

CERTIFIED TO BE A TRUE COPY:
Jean Mathews
Jean Mathews, Assistant
Clerk of Superior Court

BOOK 174 PAGE 918

NORTH CAROLINA

CURRITUCK COUNTY

IN THE GENERAL COURT OF JUSTICE
SUPERIOR COURT DIVISION
79 SP 36
CvS

VIRGINIA ELECTRIC AND POWER COMPANY,
Petitioner

v.

H. D. NEWBERN, JR. AND WIFE, DELLA C. NEWBERN,
Respondents

JUDGMENT
PARCEL NO. 139

THIS CAUSE coming on to be heard upon motion of the parties for entry of judgment by consent; and it appearing to the Court from the statements of the attorneys of record for the parties that the matters in controversy between the parties have been settled as herein set forth, the same being the amount of just compensation due the Respondents by the Petitioner; and it appearing that the Petitioner has agreed to pay to the Respondents (herein "Owners") the sum of EIGHTEEN THOUSAND FIVE HUNDRED AND NO/100 DOLLARS ($18,500.00), inclusive of interest, as compensation and damages; that upon the filing of the appraisal by the Commissioners of Appraisal appointed in the proceedings before the Clerk of this Court, the Petitioner deposited the sum of $14,702.00 with the Court; that the additional sum of $3,798.00 is to be paid by the Petitioner to the Clerk of this Court;

CURRITUCK COUNTY
FILED
MAY 5 1981
AT 9:30 O'CLOCK A. M.
BY J. Mathews, asst.
CLERK OF SUPERIOR COURT

and that the sum of $18,500.00 , inclusive of interest is to be paid by the Clerk of this Court to the Respondents from said deposits; and it further appearing to the Court that the parties desire that this judgment convey to Petitioner upon the terms and conditions hereinafter set forth an easement of right of way over the lands of Owners located in Currituck County, North Carolina, hereinafter described; and it further appearing to the Court that upon settlement of this controversy, counsel for the Petitioner and counsel for the Owners stipulate and agree that this judgment may be signed out-of-court, out-of-session and out-of-the district.

IT IS NOW, THEREFORE, BY CONSENT ORDERED AND AGREED:

(1) That the Petitioner is a public service corporation organized and doing business under the laws of the Commonwealth of Virginia and by its charter possesses the right of eminent domain; that it has been duly domesticated and is authorized by law to engage in a public service business in the State of North Carolina and has the right of eminent domain therein; that it is an electric power and lighting company under the provisions of Chapters 40 and 62 of the General Statutes of North Carolina and, as such, is authorized by the laws of this State to condemn land or other property, or any interest or estate therein, for the purposes of operating electric light plants, or distributing electric current for lights or power or for the purpose of constructing wires, poles, or other necessary things, which are authorized by law and which involve a public use or benefit.

(2) That Petitioner by this judgment acquires the perpetual right, privilege and easement of right of way, hereinafter more particularly described, to lay, construct, operate and maintain one or more lines of poles,

towers, structures, cables, conduits and pipes, together with all wires, manholes, handholes, attachments, equipment, accessories and appurtenances desirable in connection therewith (hereinafter referred to as "facilities"), for the purpose of transmitting or distributing electric power and for the purpose of transmitting communications for use in conducting the Company's business over, under, upon and across certain land and property belonging to the Owners in Currituck County, North Carolina.

The Petitioner shall have the right to assign or transfer, without limitation, all or any part of the perpetual right, privilege and easement of right of way herein acquired.

There are no cuts, fills, trestles or bridges to be made in connection with the use by the Petitioner of the easement at any time and the contour of the land will remain as at present with the exception of planting the poles, towers, structures, cables, conduits, pipes and mains, herein provided for.

The facilities erected on said easement of right of way shall remain the property of the Petitioner. The Petitioner shall have the right to inspect, rebuild, remove, repair, improve, relocate on the right of way, and make such changes, alterations, substitutions, additions to or extensions of its facilities as the Petitioner may from time to time deem advisable. The facilities shall be constructed in accordance with national safety codes in effect at the time of construction.

The Petitioner shall at all times have the right to keep the right of way clear of all buildings or structures (except fences), trees, stumps, roots and undergrowth, and shall have the further right to trim or fell any tree outside the right of way which, in the opinion of the Petitioner, constitutes a hazard to or may endanger the safe or

proper operation of its facilities. Such a tree shall be any tree which in falling or being felled could come within ten feet of any conductor. All trees, limbs and undergrowth cut, felled or which fall within the right of way during any clearing of all or any part of the right of way by the Petitioner and all stumps and roots uprooted during any such clearing may be disposed of by the Petitioner within six months after such clearing. If the Petitioner elects not to dispose of any such trees, limbs, stumps, roots and undergrowth cut or uprooted by the Petitioner upon any part of said right of way during the initial clearing of that part of the right of way by the Petitioner, such trees, limbs, stumps, roots and undergrowth shall be placed by the Petitioner in piles on the right of way where they will not block streams or drainage ditches. All trees, limbs, stumps, roots and undergrowth cut and uprooted by the Petitioner and not disposed of by the Petitioner within six months after they are cut or uprooted shall be and remain the property of the Owners. All trees and limbs cut, felled or which fall outside the right of way at any time shall be limbed, shall in general be left where they are felled or fall, but so as not to block streams or drainage ditches, and shall be and remain the property of the Owners. All trees felled outside the right of way six months or more after the Petitioner has completed the initial construction of facilities on the right of way shall be paid for by the Petitioner at their then local market value.

The Petitioner shall have the further right, but not the obligation, to plant selective trees and shrubs within the right of way at public road crossings in wooded areas.

For the purpose of constructing, inspecting, maintaining or operating its facilities, the Petitioner shall

have the right of ingress to and egress from the right of way over such private roads as may now or hereafter exist on the property of the Owners. Any damages resulting to such private roads from such use shall be repaired by the Petitioner at its expense. The right, however, is reserved to the Owners or their assigns to shift, relocate, close or abandon such private roads at any time. If there are no public or private roads reasonably convenient to the right of way, the Petitioner shall have such right of ingress or egress over the Owners' property adjacent to the right of way and lying between public or private roads and the right of way in such manner as shall occasion the least practicable damage and inconvenience to the Owners. The Petitioner shall be liable for all damages resulting from its exercise of the right of ingress and egress.

The Petitioner shall repair damage to fences or other improvements and shall pay for any damage to crops, either inside or outside the right of way, when such damage results from the construction, inspection or maintenance of the Petitioner's facilities, provided written notice thereof is given to the Petitioner within thirty days after such damage occurs.

(3) The Owners, their successors and assigns may use the right of way for any purpose not inconsistent with the rights herein sought to be acquired including, but not limited to, the right to construct, operate and maintain passways, roads, streets, railroad tracks, ditches, water, sewer, telephone, electric or other utility lines across the right of way, in such manner that the angle between the center line thereof and the center line of the right of way shall be not less than forty-five degrees provided that such use does not interfere with or endanger the construction, operation or maintenance of the Petitioner's facilities;

that no buildings or other structures may be constructed on the right of way except as herein provided; and that the Owners shall not excavate or place fill material on said right of way or place or lay septic tanks or drain fields on said right of way, without the prior written consent of the Petitioner. The Petitioner shall at all times have the paramount right to cross or cut through such passways, roads, streets, railroad tracks, water, sewer, telephone, electric or other utility lines and to interrupt the use thereof, for the purpose of constructing, maintaining, operating, repairing, altering or replacing its facilities, provided, however, that any damage done by the Petitioner in the exercise of such paramount right shall be repaired at the Petitioner's own cost and expense.

Two types of structures may be erected on said right of way, namely, single poles or multiple poles with or without crossarms and self-supporting metal towers. The height of individual poles will not exceed a height of 150 feet. Metal towers will not exceed a height of 150 feet, and the measurement of the base of the metal towers will not exceed 50 feet square. In no case will clearance of conductors be less than that specified for the voltages concerned by the National Electric Safety Code in effect at the time of construction. The maximum height of conductors above ground level and overhead static wire will be in the height of the pole or tower at the point of attachment. No buildings or substations will be erected on the right of way herein acquired. Low voltage transformers may, however, be mounted on poles.

The just compensation and damage paid by Petitioner to the Owners is in full and total payment for the right of way; for all trees, undergrowth or other obstructions within the right of way; for all trees outside the right of way trimmed or felled during the initial construction of

Petitioner's facilities and within six months thereafter; for all other rights and privileges hereinabove set forth; and for any damages to the residue of the Owners' land.

Wherever the words "poles, towers or structures" appear herein, they shall be taken to include "poles, towers and structures," sketches of which are shown on the plat attached hereto.

(4) That the easement of right of way acquired hereunder is shown on the plat designated No. 139, attached hereto, located in Poplar Branch Township, Currituck County, North Carolina, and described as follows:

A strip of land 70 feet in width, said strip of land lying within the outer boundaries of the right of way as shown on the attached plat, the eastern boundary line of said strip of land being 60 feet east of and parallel to a Survey Line, the location of said Survey Line being shown on said plat and being described as follows:

BEGINNING at Station 1205 plus 33.15 in the center line of State Route 1121 dividing property of Owners and that of H. D. Newbern, III and Marline H. Newbern, which point is N. 81° 43' 12" E. 736.60 feet along said center line of State Route 1121 from a point in the center line of Highway No. 158; thence S. 14° 16' 48" E. 2419.91 feet to Station 1229 plus 53.06 in the property line dividing property of Owners and that of John Newbern, which point is S. 55° 03' 09" W. 847.54 feet along said property line from a property corner marked by a fence post.

The above description of the area of right of way was taken from that certain plat designated Parcel 139, Shawboro-Point Harbor, a copy of which is attached hereto and by this reference made a part hereof for a more particular description of the easement of right of way.

The above parcel is a part of the same property conveyed from Virginia-Carolina Joint Stock Land Bank to H. D. Newbern, Jr., by deed dated September 1, 1936, and recorded September 3, 1936, in Deed Book 68, Page 237, Currituck County Registry.

(5) That the Notice of Lis Pendens heretofore filed in this cause on April 9, 1979, is hereby cancelled and declared null and void, and the Clerk of this Court shall make appropriate entries of such cancellation pursuant to law.

(6) That this consent judgment and the plat appended hereto be certified to the Register of Deeds of Currituck County for recording upon the public records pursuant to law.

(7) That the Clerk of this Court pay to the Owners the sum of $18,500.00, inclusive of interest, heretofore deposited with the Court by the Petitioner.

(8) That the Clerk of this Court pay to the Petitioner all interest accrued, if any, on the total deposit from date of deposit to date of payment.

(9) That the Clerk of this Court tax the costs of this cause against Petitioner.

This 24th day of March, 1981.

Robert Small
Superior Court Judge

APPROVED AND CONSENTED TO BY:

Charles T. Lane

Charles T. Lane
Spruill, Lane & McCotter
Attorneys for Petitioner
Post Office Drawer 353
Rocky Mount, North Carolina 27801
Telephone: (919) 446-2341

William Brumsey III

William Brumsey, III
White, Hall, Mullen, Brumsey & Small
Post Office Box 304
Elizabeth City, North Carolina 27909

H D Newbern Jr

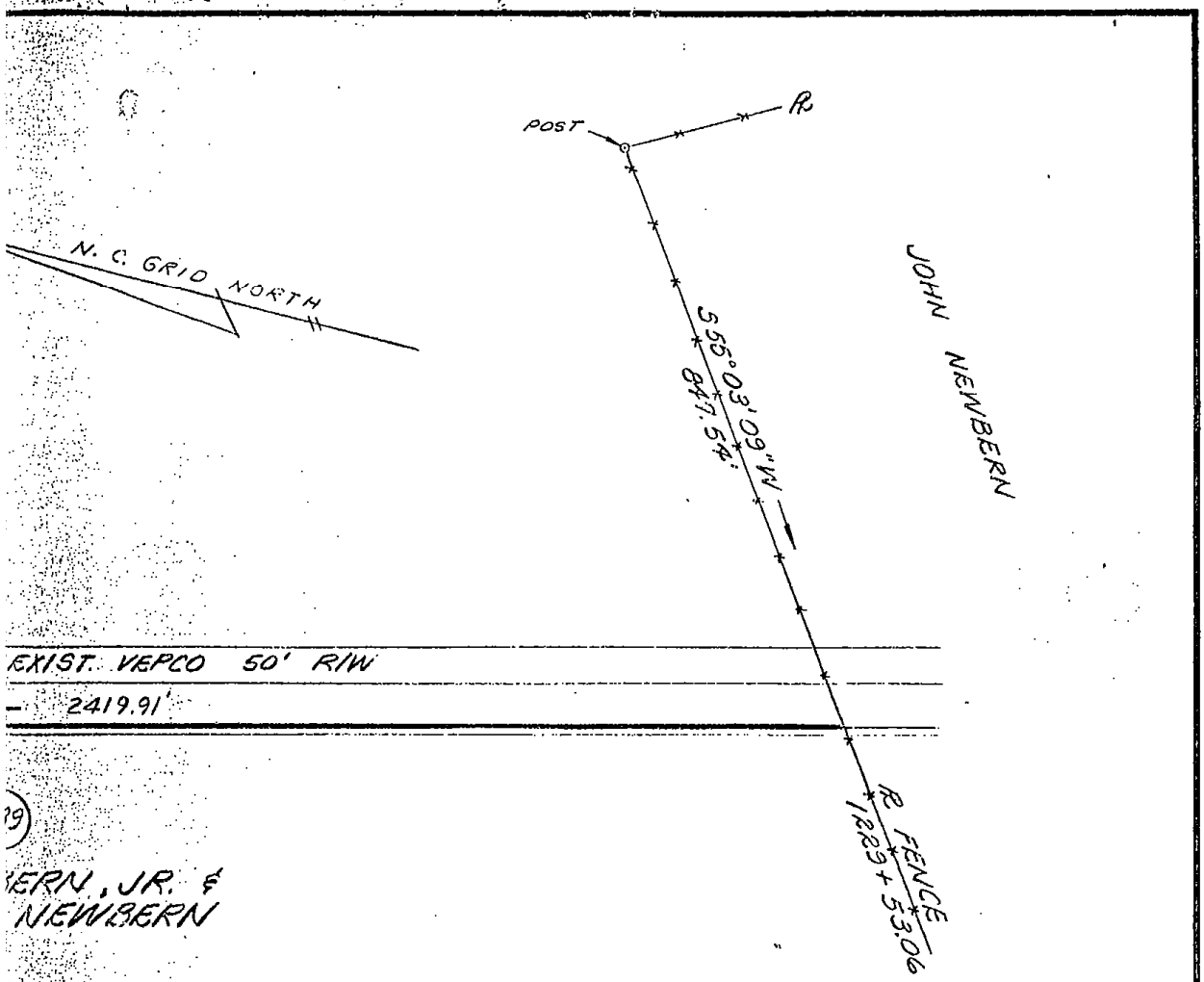
H. D. Newbern, Jr.

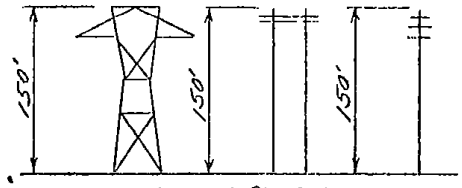
Della C. Newbern

Della C. Newbern

Filed for registration on the
5 day of May 1981
at 10:00 o'clock A M.

Charlene Y. Dowdy
Register of Deeds





TYPICAL STRUCTURE

VIRGINIA ELECTRIC AND POWER CO.

SHAWBORO - POINT HARBOR

PLAT TO ACCOMPANY RIGHT-OF-WAY AGREEMENT WITH H. D. DELLA C. NEWBERN, JR. & NEWBERN

DISTRICT — TOWNSHIP	COUNTY	STATE
POPLAR BRANCH	CURRITUCK,	N.C.

SCALE: 1 INCH = 200 FT. — SURVEYED BY R. L. DOWNING

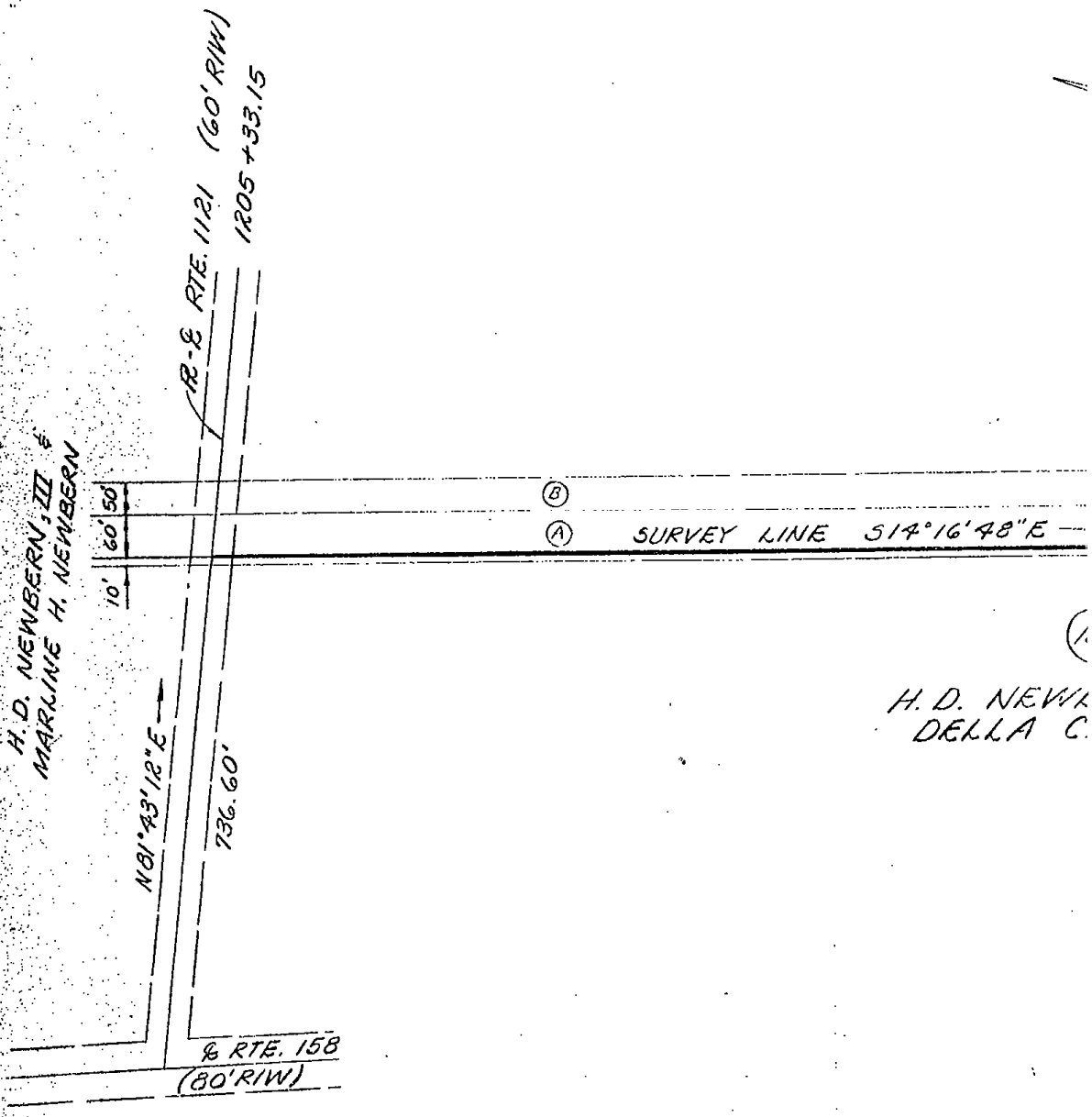
DRAWN BY	DATE	DRAWER NO.
W.P.C.	OCT. 1, 1975	NO. 139

SHEET NO.

REVISIONS

4		3		2		1	JULY 26, 1977

566.66



A = 3.869 Ac. PROP.
B = 2.730 Ac. EXIST.
TOTAL = 6.599 Ac.

557.2

ATTORNEY'S CERTIFICATE AND REPORT ON TITLE

THIS IS TO CERTIFY unto the Virginia Electric and Power Company that the record title to the real estate described in Schedule A, hereto attached as a part hereof, being a parcel of land of which Parcel No. 139 of the Shawboro-Point Harbor Transmission Line, as shown on Plat To Accompany Right of Way Agreement with H. D. Newbern, Jr. and Della C. Newbern, Poplar Branch Township, Currituck County, North Carolina, was originally a part has been examined to this date, and found to be vested in

H. D. NEWBERN, JR. AND WIFE,
DELLA C. NEWBERN

whose estate or interest is fee simple

and found to be free from material recorded objections, except as mentioned below, under the designation objections.

OBJECTIONS:

1. Right of way granted to the State Highway Commission in the following easement deeds:
DOES NO AFFECT R/W; J.W.S.

(a) dated January 28, 1964, and recorded in Deed Book 100, at Page 353, Currituck County Registry.
DOES NOT AFFECT R/W; J.W.S

(b) dated August 18, 1968, and recorded in Deed Book 109, at page 87, Currituck County Registry.
DOES NOT AFFECT R/W; J.W.S

2. Right of way granted to Norfolk and Carolina Telephone and Telegraph Company by the following easement deeds:

(a) dated October 2, 1951, and recorded in Deed Book 81, Page 93, Currituck County Registry.
DOES NOT AFFECT R/W; J.W.S

(b) dated July 11, 1963, and recorded in Deed Book 99, Page 112, Currituck County Registry.
DOES NOT AFFECT R/W; J.W.S

3. Oil and gas lease granted to Standard Oil Company of New Jersey, a Delaware Corp. by deed dated June 20, 1944, and recorded in Deed Book 74, Page 95. The duration of this lease is for a primary term of 10 years, with an extension into further producing years. Virginia Electric and Power Company should determine if the land is currently producing. If not, this objection can be waived.
LEASE EXPIRED JUNE 20, 1954; J.W.S.

(continued)

4. Oil, gas and mineral lease granted to Socony Mobil Oil Company, Inc. by deed dated February 19, 1965, and recorded in Deed Book 102, Page 665, Currituck County Registry. The duration of this lease is for a primary term of 10 years, with an extension into further producing years. Virginia Electric and Power Company should determine if the land is currently producing. If not, this objection can be waived.
LEASE EXPIRED FEB. 19, 1975, J.W.S

5. Utility easements granted to Virginia Electric and Power Company by the following easement deeds:

(a) dated January 10, 1947, and recorded in Deed Book 77, Page 243, Currituck County Registry.
DOES NOT AFFECT RIW; J.W.S

(b) dated June 22, 1949, and recorded in Deed Book 79, Page 185, Currituck County Registry.
DOES NOT AFFECT RIW; J.W.S

(c) dated June 7, 1951, and recorded in Deed Book 80, Page 549, Currituck County Registry.
EXISTING 50 FT. RIW. J.W.S.

6. The Currituck County Tax Office informs us that 1976 and prior taxes have been paid. 1977 taxes are a lien on subject property, but are not due and payable until September 1, 1977.
1977 TAXES ARE PAID, J.W.S,

~~[illegible]~~ This the 18th day of July, 1977.

SPRUILL, TROTTER & LANE

BY [signature]

Post Office Box 353
Rocky Mount, North Carolina 27801

TITLE UPDATED TO 10-19-1978, J.W.S
10.25.1978 J.W.S.
11. 28-1978 J.W.S.

SCHEDULE A
PARCEL NO. 139

Lying and being situate in Poplar Branch Township, Currituck County, North Carolina, and more particularly described as follows:

Called the H. D. Newbern Home Place - Beginning on the State Highway, at the line of W. H. Gallop; thence N. 77° E. 16.50 chains; along said Gallop's line to a corner; thence N. 6 1/2° E. 5.05 chains to public road; thence N. 89° E. 4 chains along said public road; thence N. 12° W. 13.05 chains to T. J. Woodhouse land; thence along his line N. 63° E. 16.50 chains to a corner; thence N. 4° W. 8.68 chains to R. L. Newbern's land; thence due East along last mentioned line to the Hardy Tract, 16.25 chains; thence on in same direction to the Twin pine; thence S. 17 1/2° E. 20 chains to lands of J. T. Volkman's heirs; thence S. 59° W. 12.68 chains to a Holly; thence S. 4° W. 10.68 chains to Public Highway; thence S. 89° W. along said Highway 6.20 chains to intersection of Public Road; thence S. 2° W. along said public road 20.44 chains to C. B. Newbern's land; thence N. 80° W. 7 chains; thence S. 64 1/2° W. 23.25 chains to the State Highway; thence along said Highway N. 12° W. 20.26 chains to place of beginning, containing 135 acres, and being composed of the F. B. Sikes, the Caroon and Hardy tracts, making the H. D. Newbern home tract.

The above description was taken from a deed dated September 1, 1936, and recorded in Deed Book 68, Page 237, Currituck County Registry.

7

CHAIN OF TITLE
PARCEL NO. 139

1.

Virginia Carolina Joint Stock Land Bank to H. D. Newborn, Jr.	Deed Book 68, Page 237 Currituck County Registry Dated: September 1, 1936 Filed: September 3, 1936

Warranty deed conveying six parcels of land, the third tract conveyed therein, being the property described in Schedule A.

557.2 ATTORNEY'S CERTIFICATE AND REPORT ON TITLE

THIS IS TO CERTIFY unto the Virginia Electric and Power Company that the record title to the real estate described in Schedule A, hereto attached as a part hereof, being a parcel of land of which Parcel No. 139 of the Shawboro-Point Harbor Transmission Line, as shown on Plat To Accompany Right of Way Agreement with H. D. Newbern, Jr. and Della C. Newbern, Poplar Branch Township, Currituck County, North Carolina, was originally a part has been examined to this date, and found to be vested in

H. D. NEWBERN, JR. AND WIFE,
DELLA C. NEWBERN

whose estate or interest is fee simple

and found to be free from material recorded objections, except as mentioned below, under the designation objections.

OBJECTIONS:

1. Right of way granted to the State Highway Commission in the following easement deeds:

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2. Right of way granted to Norfolk and Carolina Telephone and Telegraph Company by the following easement deeds:

(a) dated October 2, 1951, and recorded in Deed Book 81, Page 93, Currituck County Registry.

(b) dated July 11, 1963, and recorded in Deed Book 99, Page 112, Currituck County Registry.

3. Oil and gas lease granted to Standard Oil Company of New Jersey, a Delaware Corp. by deed dated June 20, 1944, and recorded in Deed Book 74, Page 95. The duration of this lease is for a primary term of 10 years, with an extension into further producing years. Virginia Electric and Power Company should determine if the land is currently producing. If not, this objection can be waived.

(continued)

4. Oil, gas and mineral lease granted to Socony Mobil Oil Company, Inc. by deed dated February 19, 1965, and recorded in Deed Book 102, Page 665, Currituck County Registry. The duration of this lease is for a primary term of 10 years, with an extension into further producing years. Virginia Electric and Power Company should determine if the land is currently producing. If not, this objection can be waived.

5. Utility easements granted to Virginia Electric and Power Company by the following easement deeds:

(a) dated January 10, 1947, and recorded in Deed Book 77, Page 243, Currituck County Registry.

(b) dated June 22, 1949, and recorded in Deed Book 79, Page 185, Currituck County Registry.

(c) dated June 7, 1951, and recorded in Deed Book 80, Page 549, Currituck County Registry.

6. The Currituck County Tax Office informs us that 1976 and prior taxes have been paid. 1977 taxes are a lien on subject property, but are not due and payable until September 1, 1977.

This the 18th day of July, 1977.

SPRUILL, TROTTER & LANE

BY William S. Lane Jr.

Post Office Box 353
Rocky Mount, North Carolina 27801

SCHEDULE A
PARCEL NO. 139

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Called the H. D. Newbern Home Place - Beginning on the State Highway, at the line of W. H. Gallop; thence N. 77° E. 16.50 chains; along said Gallop's line to a corner; thence N. 6 1/2° E. 5.05 chains to public road; thence N. 89° E. 4 chains along said public road; thence N. 12° W. 13.05 chains to T. J. Woodhouse land; thence along his line N. 63° E. 16.50 chains to a corner; thence N. 4° W. 8.68 chains to R. L. Newbern's land; thence due East along last mentioned line to the Hardy Tract, 16.25 chains; thence on in same direction to the Twin pine; thence S. 17 1/2° E. 20 chains to lands of J. T. Volkman's heirs; thence S. 59° W. 12.68 chains to a Holly; thence S. 4° W. 10.68 chains to Public Highway; thence S. 89° W. along said Highway 6.20 chains to intersection of Public Road; thence S. 2° W. along said public road 20.44 chains to C. B. Newbern's land; thence N. 80° W. 7 chains; thence S. 64 1/2° W. 23.25 chains to the State Highway; thence along said Highway N. 12° W. 20.26 chains to place of beginning, containing 135 acres, and being composed of the F. B. Sikes, the Caroon and Hardy tracts, making the H. D. Newbern home tract.

The above description was taken from a deed dated September 1, 1936, and recorded in Deed Book 68, Page 237, Currituck County Registry.

CHAIN OF TITLE
PARCEL NO. 139

1.

Virginia Carolina Joint Stock Land Bank to H. D. Newbern, Jr.	Deed Book 68, Page 237 Currituck County Registry Dated: September 1, 1936 Filed: September 3, 1936

Warranty deed conveying six parcels of land, the third tract conveyed therein, being the property described in Schedule A.

NORTH CAROLINA

COUNTY OF CURRITUCK

IN THE GENERAL COURT OF JUSTICE
SUPERIOR COURT DIVISION
BEFORE THE CLERK
79 Sp 36

VIRGINIA ELECTRIC AND POWER COMPANY,
Petitioner

v.

H. D. NEWBERN, JR. AND WIFE, DELLA C. NEWBERN,
Respondents

CURRITUCK COUNTY
FILED
MAY 31 1979
AT 5:00 P.M.

COMMISSIONERS' REPORT FOR PARCEL NO. 139

TO THE CLERK OF THE SUPERIOR COURT OF CURRITUCK COUNTY:

We, Graham White, Byron Williams, and Roy Sawyer, commissioners appointed by the Court to assess the just compensation to the parties designated as respondents in the above caption, the owners of certain lands lying in the Poplar Branch Township, Currituck County, which Virginia Electric and Power Company, petitioner, proposes to condemn for its use, and the damages, if any, to the remaining property of the owners by reason of the property which is to be taken, do hereby certify that we met on May 31, 1979, and, having first been duly sworn, we visited the premises of the owners, and after taking into full consideration the quality and quantity

Certified to be a TRUE COPY of the original
on file in Office of Clerk of Superior Court,
Currituck County
Wiley B. Gilbert
Clerk of Superior Court

of the land aforesaid, the additional fencing, if any, likely to be occasioned by the work of the corporation, and all other inconveniences likely to result to the owners, we have estimated and do assess the just compensation and damages aforesaid at the sum of $ 14,702.00.

We have estimated the special or general benefits which the owners will receive from the construction of such facilities to be the sum of $ 0 .

Given under our hands the 31 day of May, 1979.

Graham White

Glyn T Williams

Roy Sawyer

Attachment C

Ownership & Approvals

Certification by Land Owner:

I hereby certify that I have read and understand the application submitted by Soundside Recycling & Materials, Inc. for a permit to operate a solid waste management facility as described in the Permit Application entitled Soundside C&D Waste Transfer & Recycling Center dated October 2008 prepared by Richardson Smith Gardner & Associates, Inc. on land owned by the undersigned, Marlene H. Newbern and H. D. Newbern, III, located at 7565 Caratoke Highway in Currituck County. I specifically grant permission for the construction and operation of the solid waste management facility within the confines of the land described by and in Deed Book 172 and Page 325, as indicated in the permit application. I understand that any permit will be issued in the names of both the operator(s) and the owner(s) of the facility/property. I acknowledge that ownership of land on which a solid waste management facility is located may subject me to cleanup of said property in the event that the operator defaults, as well as to liability under the federal Comprehensive Environmental Responsibility, Compensation and Liability Act (CERCLA). Without accepting any fault or liability, I recognize that ownership of land on which a solid waste management facility is located may subject me to claims from persons who may be harmed in their persons or property caused by the solid waste management facility.

I am informed that North Carolina General Statute130A-22 provides for administrative penalties of up to fifteen thousand dollars ($15,000) per day per each violation of the Solid Waste Management Rules. I understand that the Solid Waste Management Rules may be revised or amended in the future, and that the siting and operation of the facility will be required to comply with any such revisions or amendments.

Marlene H Newbern — 10-29-08
Mrs. Marlene H. Newbern (signed) — Date

H D Newbern — 10-29-08
Mr. H. D. Newbern, III (signed) — Date

NORTH CAROLINA

Currituck County

I, Deborah H. Burge, Notary Public for said County and State, do hereby certify that Marlene Newbern / H. D. Newbern personally appeared before me this day and acknowledged the due execution of the foregoing instrument.

Witness my hand and official seal, this the 29 day of October, 2008.

(Official Seal)

Deborah H. Burge
Notary Public

My commission expires 11/3, 2010.

DEBORAH H. BURGE
NOTARY PUBLIC
Currituck County
North Carolina
My Commission Expires Nov. 3, 2010

Applicant Certification:

Name of facility Soundside Recycling & Materials, Inc.
C&D Waste Transfer and Recycling Center

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision and that the information provided in this application is true, accurate, and complete to the best of my knowledge.

I understand that North Carolina General Statute 130A-22 provides for administrative penalties of up to fifteen thousand dollars ($15,000.00) per day per each violation of the Solid Waste Management Rules. I further understand that the Solid Waste Management Rules may be revised or amended in the future and that the facility siting and operations of this solid waste management facility will be required to comply with all such revisions or amendments.

Horatio D. Newbern III — Horatio D. Newbern III — 10-29-08
Signature — Print Name — Date

Vice President
Title

Soundside Recycling & Mats Inc
Business or organization name

NORTH CAROLINA

Currituck County

I, Deborah H. Burge, a Notary Public for said County and State, do

hereby certify that Horatio D. Newbern III personally appeared before me this day and acknowledged the due execution of the foregoing instrument.

Witness my hand and official seal, this the 29 day of October, 2008.

(Official Seal)
Notary Public

My commission expires 11/3/2010, 20

DEBORAH H. BURGE
NOTARY PUBLIC
Currituck County
North Carolina
My Commission Expires Nov. 3, 2010

992715033

CORP ID # 0510351
FILED
9:50am
OCT 26 1999
Effective
ELAINE F. MARSHALL
SECRETARY OF STATE
NORTH CAROLINA

ARTICLES OF INCORPORATION
OF
SOUNDSIDE RECYCLING & MATERIALS, INC.

I, the undersigned natural person of the age of eighteen years or more, do hereby associate myself into a business corporation under the laws of the State of North Carolina as contained in Chapter 55 of the General Statues of North Carolina entitled "Business Corporation Act" and the several amendments thereto, and to that end to hereby set forth:

1. The name of the corporation is
   Soundside Recycling & Materials, Inc.

2. The period of duration of the corporation shall be perpetual.

3. The purpose for which the corporation is organized is to engage in any lawful act or activity for which corporations may be organized under Chapter 55 of the North Carolina General Statues, as amended from time to time.

4. The total number of shares of common stock, which the corporation is authorized to issue, is 100, with a par value of ten dollars ($ 10.00) per share.

5. The minimum amount of consideration for the shares of stock to be received by the Corporation before it shall commence business is One Thousand ($1,000.00) Dollars.

6. The address of the initial registered office of the corporation is 105 Windy Hill Court, P.O. Box 176, city of Aydlett, County of Currituck, State of North Carolina, and the name of the initial registered agent at that address is Kimberly Jensen Newbern.

7. The number of directors constituting the initial board of directors shall be two (2) and the name and address of each person who is to serve as a director until the first meeting of the shareholders or until his/her successor is elected and qualified is as follows:

   Kimberly Jensen Newbern
   P.O. Box 176, 105 Windy Hill Court
   Aydlett, NC 27916

   Horatio Drinkwater Newbern IV
   P.O. Box 176, 105 Windy Hill Court
   Aydlett, NC 27916

8. These articles will be effective upon filing, unless a date and/or time is specified:

_____

This the 16 Th. day of August. 1999.

Soundside Recycling & Materials, Inc.

9. The name and address of the incorporator is as follows:

Kimberly Jensen Newbern
P.O. Box 176
105 Windy Hill Court
Aydlett, NC 27916

Kimberly Jensen Newbern owner
Signature

INCORPORATOR

Kimberly Jensen Newbern, owner
Name and Title

Attachment D

Zoning Documentation

COUNTY OF CURRITUCK

Department of Planning
Post Office Box 70
Currituck, North Carolina 27929-0070
Telephone (252) 232-3055 / Fax (252) 232-3026

December 7, 2010

HD (Racy) Newbern IV
PO Box 277
Powells Point, NC 27966

RE: PB 00-15 Soundside Recycling – Special Use Permit

Dear Applicant,

At its December 6, 2010 meeting, the Currituck County Board of Commissioners approved a one-year extension of the special use permit for HD (Racy) Newbern IV for a demolition landfill. The property is located on the east side of Caratoke Hwy. approximately 200' south of the intersection with SR 1156 (North River Rd.), Tax Map 110, Parcels 38 and 39, Poplar Branch Township.

If you have any questions, please call me at 252-232-6029.

Sincerely,

Ben E. Woody, AICP
Planning Director

Encl: Special Use Permit

cc: Harry Lee, Currituck County

COUNTY OF CURRITUCK

Department of Planning
Post Office Box 70
Currituck, North Carolina 27929-0070
Telephone (252) 232-3055 / Fax (252) 232-3026

SPECIAL USE PERMIT GRANTED

On the date(s) listed below, the Board of Commissioners for the County of Currituck met and held a public hearing to consider the following application:

Owner:	HD/Marlene Newbern PO Box 176 Aydlett, NC 27916
Applicant:	HD (Racy) Newbern IV PO Box 277 Powells Point, NC 27966
Property Location:	East side of Caratoke Hwy. approximately 200' south of the intersection with SR 1156 (North Rover Road)
Project:	PB 00-15 Soundside Recycling – Special Use Permit Renewal
Proposed Use:	Demolition Landfill
Meeting Date:	December 6, 2010 – Board of Commissioners' Hearing/Action

Having heard all the evidence and argument presented at the hearing, the Board finds that the application is complete, that the application complies with all of the applicable requirements of the Currituck County Unified Development Ordinance for the development proposed, and that therefore the application to make use of the above described property for the purpose indicated is hereby approved subject to all applicable provisions of the Unified Development Ordinance and the following conditions:

(A) If any of the conditions affixed hereto or any part thereof shall be held invalid or void, then this permit shall be void and of no effect.

(B) This special use permit was approved for a one-year extension, December 6, 2010 – December 6, 2011, as the conditions under which it was granted are met.

(C) Other conditions:

1. The applicant shall maintain the development strictly in accordance with the plan submitted to and approved by the Board of Commissioners, a copy of which is filed in the office of the Planning Department.

   Approximate Acreages:

Recycling Area	3.4 acres
Compost Area	2.0 acres
Hurricane Storage Area	8.5 acres

2. That the mulch sales storage area not exceed 6' in height, 100' in length and 60' in width.
3. That no demolition storage pile areas exceed 15' in height.
4. That the applicant maintain substantially high berms to effectively conceal all debris piles from public view from Caratoke Highway (US 158). The height of these berms shall be a minimum of 12 feet but may be higher depending on the height of debris piles.
5. That the berm height shall be uniform, complete, and continuous.
6. That the applicant will be permitted one (1) permanent sign and one (1) temporary sign for the business.
7. That no transportation equipment (tractors or trailers with or without debris) be parked or stored outside the designated area as shown on the attached site plan.
8. That the following comments from the county's Fire Marshall be incorporated within this approval:
   a. No Smoking except in designated areas is allowed. Signage should indicate appropriate areas.
   b. Fire operations will require an all weather surface and 20' access width to all areas of the compound. Would recommend 2 ingress/egress points.
   c. Each fuel-fired vehicle shall be equipped with a 2-A:20-B:C or higher fire extinguisher.
   d. A fire hydrant shall be within 400' of all portions of any structure.
   e. Plant growth shall be maintained in order to prevent wind blown debris escaping the site.
9. That the hours of operation be set at 7:30 a.m. to 5:00 p.m. weekdays and 7:30 a.m. to 12 noon on Saturdays with no operations allowed on Sundays.
10. That all material must be kept on site at all times and that necessary steps are taken to keep material from blowing off the property.
11. Suggested Staff Findings of Fact:

   a. ***OWNER***
   HD(Racy)Newbern IV
   P. O. Box 277
   Powells Pt, NC 27966
   (252) 491-5744

   APPLICANT
   HD/Marlene Newbern
   PO Box 176
   Aydlett, NC 27916
   (252) 453-3032

b. The tract is located on the east side of Caratoke Hwy. approximately 200' south of the intersection with SR 1156 (North River Rd.) in Powells Point, Tax Map 110, parcels 38 & 39, Poplar Branch (ML) Township.

c. The property is being utilized as a recycling center.

d. The applicant received the original special use permit on May 1, 2000 and a renewals on April 16, 2001, June 17, 2002, and June 6, 2005 to temporarily store untreated demolition waste (treated & untreated wood products, cardboard, plastic, vinyl, wallboard, metal and shingles) on two (2) acres of land in an "Agriculture" zoning district which is permitted in an A district with a SUP.

e. The applicant currently recycles demolition waste using a tub grinder. Since the UDO does not specifically list this use in the Table of Permissible Uses, the staff determined this use had impacts similar to a demolition landfill which required a special use permit in an "A" zoning district.

f. According to county Zoning Maps, the nearest dwelling to the existing recycling area is approximately 300 feet west.

g. The mulch stockpile sales area will be located east of the power line right-of-way.

h. No burning of waste will be permitted on the site unless a special use permit is granted for an incinerator. Further, all necessary state permits must be obtained prior to burning waste.

i. The site is surrounded by the following land uses:

West (Front)	Commercial (Antique Store)-zoned "GB"
East (Rear)	Farmland - zoned "A"
North (Side)	Farmland (agricultural operations) - zoned "A"
South (Side)	Farmland - zoned "A"

j. The 1990 Land Use Plan classifies this land as "Limited Transition".

k. The proposed site is located along a Minor Arterial in the County's Thoroughfare Plan.

l. According to the application, the storage area will not increase the county's ability to provide facilities in anyway.

12. All State permits needed to move the operation east of the power transmission lines shall be issued within one year.

13. Quarterly progress reports shall be filed with the Planning Department.

14. The applicant shall be in compliance with all county ordinances within 90 days.

IN WITNESS WHEREOF, the County has caused this permit to be issued in its name, and the property owners/applicants of the property above described, do hereby accept this Special Use Permit together with all its conditions, as binding on them and their successors in interest.

ATTEST:

Gwen H. Keane (Seal)
Clerk to the Board

12-7-2010
Date

Kowe Aydlett
Chairman
Board of Commissioners

(NOT VALID UNTIL FULLY EXECUTED)

COUNTY OF CURRITUCK

SPECIAL USE PERMIT GRANTED

On the date(s) listed below, the Board of Commissioners for the County of Currituck met and held a public hearing to consider the following application:

Applicant:	H.D. (Racy) Newbern, IV
Property Location:	7565 Caratoke Hwy. Jarvisburg, NC 27947
Site:	Soundside Recycling
Tax Map:	110, parcels 38 and 39
Proposed Use of the Property:	Demolition landfill operation/mulch sales stockpile area
Meeting Dates:	December 17, 2007 - Board of Commissioners' Public Hearing/ Action

Having heard all the evidence and argument presented at the hearing, the Board finds that the application is complete, that the application complies with all of the applicable requirements of the Currituck County Unified Development Ordinance for the development proposed, and that therefore the application to make use of the above described property for the purpose indicated is hereby approved subject to all applicable provisions of the Unified Development Ordinance and the following conditions:

1. The applicant shall maintain the development strictly in accordance with the plan submitted to and approved by the Board of Commissioners, a copy of which is filed in the office of the Planning and Inspections Department.
   Approximate Acreages:
   - Recycling Area 3.4 acres
   - Compost Area 2.0 acres
   - Hurricane Storage Area 8.5 acres

2. That the special use permit shall be valid until December 5, 2010 with the condition that operation be moved east of the power transmission lines as approved in the attached site plan within 6 months of the issuance of all required State permits. Furthermore, the applicant shall submit in writing to the Planning Director quarterly progress reports until such time as the operation is moved in its entirety;

3. If any of the conditions affixed hereto or any part thereof shall be held invalid or void, then this permit shall be void and of no effect;

4. That the mulch sales storage area not exceed 6' in height, 100' in length and 60' in width;

5. That no demolition storage pile areas exceed 15' in height;

6. That the applicant maintain an opaque vegetative screening hedge to effectively conceal to the maximum extent possible all debris piles from public view from Caratoke Highway (US 158);

7. That the opaque vegetative screening hedge be uniform, complete, continuous and extend along the western and northern property lines;

8. That the applicant will be permitted one (1) permanent sign and one (1) temporary sign for the business;

9. That no transportation equipment (tractors or trailers with or without debris) be parked or stored between the opaque vegetative screening hedge and US 158;

10. That the following comments from the county's Fire Marshall be incorporated within this approval:

    A. No Smoking except in designated areas are allowed. Signage should indicate appropriate areas.

    B. Fire operations will require an all weather surface and 20' access width to all areas of the compound. Would recommend 2 ingress/egress points.

    C. Each fuel-fired vehicle shall be equipped with a 2-A:20-B:C or higher fire extinguisher.

    D. A fire hydrant must be within 400' of all portions of any structure.

    E. Plant growth must be maintained in order to prevent wind blown debris escaping the site.

11. That the hours of operation be set at 7:30 a.m. to 5 p.m. weekdays and 7:30 a.m. to 12 noon on Saturdays with no operations allowed on Sundays;

12. That all material must be kept on site at all times and that necessary steps are taken to keep material from blowing off the property; and,

13. Suggested Staff Findings of Fact:

    A. The tract is located on the east side of Caratoke Hwy. approximately 200' south of the intersection with SR 1156 (North River Rd.) in Powells Point, Tax Map 110, parcels 38 & 39, Poplar Branch (ML) Township.

    B. The property is being utilized as a recycling center (demolition landfill operation and mulch sales stockpile area).

    C. The applicant received the original special use permit on May 1, 2000 and a renewals on April 16, 2001, June 17, 2002, June 6, 2005, December 5, 2005, and December 4, 2006 to temporarily store untreated demolition waste (treated & untreated wood products, cardboard, plastic, vinyl, wallboard, metal and shingles) in an "Agriculture" zoning district which is permitted in an A district with a SUP.

    D. The applicant currently recycles demolition waste using a horizontal or tub grinder. Since the UDO does not specifically list this use in the Table of Permissible Uses, the staff determined this use had impacts similar to a demolition landfill which required a special use permit in an "A" zoning district.

    E. According to county Zoning Maps, the nearest dwelling to the existing recycling area is approximately 300 feet west.

    F. The mulch stockpile sales area will be located west of the power line right-of-way

G. No burning of waste will be permitted on the site unless a special use permit is granted for an incinerator. Further, all necessary state permits must be obtained prior to burning waste.

H. The site is surrounded by the following land uses:

West (Front)	Commercial (Antique Store)-zoned "GB"
East (Rear)	Farmland - zoned "A"
North (Side)	Farmland (agricultural operations) - zoned "A"
South (Side)	Farmland - zoned "A"

I. The 2006 Land Use Plan classifies this land as "Full Service".

J. The proposed site is located along a Minor Arterial in the County's Thoroughfare Plan.

K. According to the application, the storage area will not increase the county's ability to provide facilities in anyway.

IN WITNESS WHEREOF, the County has caused this permit to be issued in its name, and the property owners/applicants of the property above described, do hereby accept this Special Use Permit together with all its conditions, as binding on them and their successors in interest.

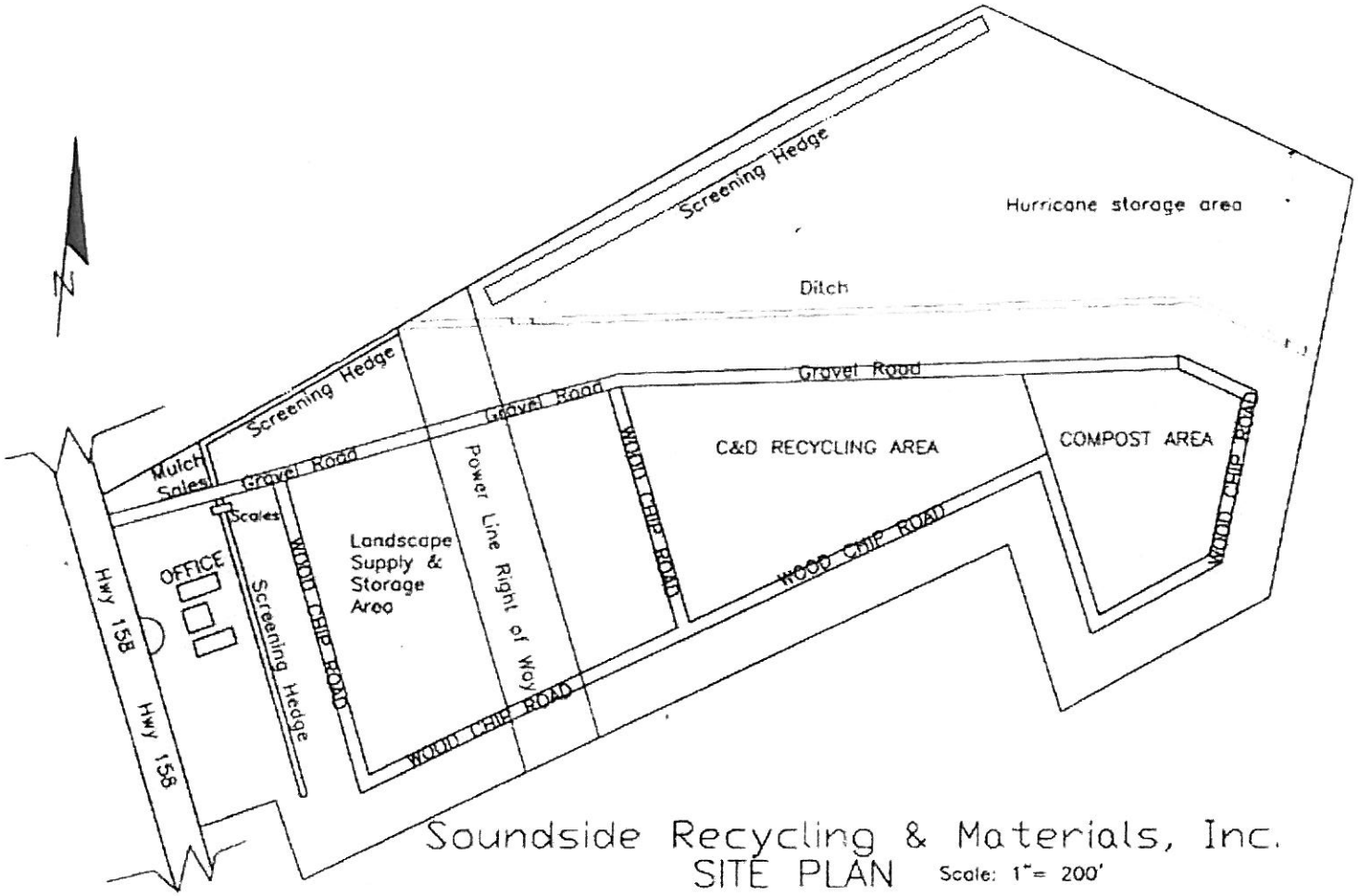
ATTEST:

Gwen H. Keene (Seal)
Clerk to the Board

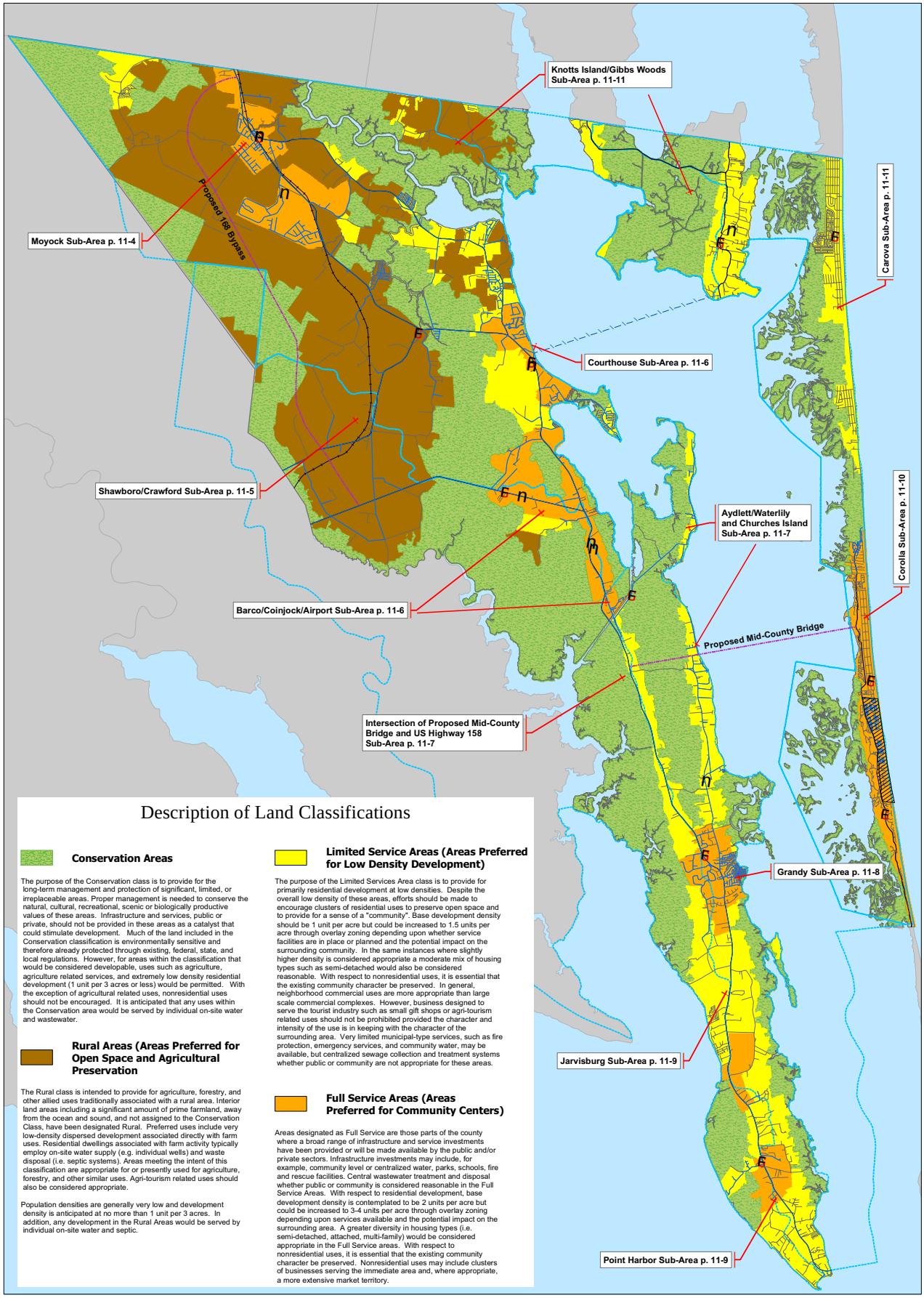
12/20/07
Date

Chairman
Board of Commissioners

(NOT VALID UNTIL FULLY EXECUTED)



Soundside Recycling & Materials, Inc.
SITE PLAN Scale: 1"= 200'



Description of Land Classifications

Conservation Areas

The purpose of the Conservation class is to provide for the long-term management and protection of significant, limited, or irreplaceable areas. Proper management is needed to conserve the natural, cultural, recreational, scenic or biologically productive values of these areas. Infrastructure and services, public or private, should not be provided in these areas as a catalyst that could stimulate development. Much of the land included in the Conservation classification is environmentally sensitive and therefore already protected through existing, federal, state, and local regulations. However, for areas within the classification that would be considered developable, uses such as agriculture, agriculture related services, and extremely low density residential development (1 unit per 3 acres or less) would be permitted. With the exception of agricultural related uses, nonresidential uses should not be encouraged. It is anticipated that any uses within the Conservation area would be served by individual on-site water and wastewater.

Rural Areas (Areas Preferred for Open Space and Agricultural Preservation

The Rural class is intended to provide for agriculture, forestry, and other allied uses traditionally associated with a rural area. Interior land areas including a significant amount of prime farmland, away from the ocean and sound, and not assigned to the Conservation Class, have been designated Rural. Preferred uses include very low-density dispersed development associated directly with farm uses. Residential dwellings associated with farm activity typically employ on-site water supply (e.g. individual wells) and waste disposal (i.e. septic systems). Areas meeting the intent of this classification are appropriate for or presently used for agriculture, forestry, and other similar uses. Agri-tourism related uses should also be considered appropriate.

Population densities are generally very low and development density is anticipated at no more than 1 unit per 3 acres. In addition, any development in the Rural Areas would be served by individual on-site water and septic.

Limited Service Areas (Areas Preferred for Low Density Development)

The purpose of the Limited Services Area class is to provide for primarily residential development at low densities. Despite the overall low density of these areas, efforts should be made to encourage clusters of residential uses to preserve open space and to provide for a sense of a "community". Base development density should be 1 unit per acre but could be increased to 1.5 units per acre through overlay zoning depending upon whether service facilities are in place or planned and the potential impact on the surrounding community. In the same instances where slightly higher density is considered appropriate a moderate mix of housing types such as semi-detached would also be considered reasonable. With respect to nonresidential uses, it is essential that the existing community character be preserved. In general, neighborhood commercial uses are more appropriate than large scale commercial complexes. However, business designed to serve the tourist industry such as small gift shops or agri-tourism related uses should not be prohibited provided the character and intensity of the use is in keeping with the character of the surrounding area. Very limited municipal-type services, such as fire protection, emergency services, and community water, may be available, but centralized sewage collection and treatment systems whether public or community are not appropriate for these areas.

Full Service Areas (Areas Preferred for Community Centers)

Areas designated as Full Service are those parts of the county where a broad range of infrastructure and service investments have been provided or will be made available by the public and/or private sectors. Infrastructure investments may include, for example, community level or centralized water, parks, schools, fire and rescue facilities. Central wastewater treatment and disposal whether public or community is considered reasonable in the Full Service Areas. With respect to residential development, base development density is contemplated to be 2 units per acre but could be increased to 3-4 units per acre through overlay zoning depending upon services available and the potential impact on the surrounding area. A greater diversity in housing types (i.e. semi-detached, attached, multi-family) would be considered appropriate in the Full Service areas. With respect to nonresidential uses, it is essential that the existing community character be preserved. Nonresidential uses may include clusters of businesses serving the immediate area and, where appropriate, a more extensive market territory.

The preparation of this map was financed in part through a grant provided by the North Carolina Coastal Management Program, through the funds provided by the North Carolina Coastal Management Act of 1972, as amended, which is administered by the Office of Ocean and Coastal Resource Management, National Oceanic and Atmospheric Administration.

Future Land Use Plan Map

Waterline
Major Street
Proposed Transportation Feature
Ferry Route
Fire/EMS Station
School
Area Served by Ocean Sands Water and Sewer District
14 Digit Hydrologic Units (Watersheds)

0 0.5 1 2 3 4 Miles

Currituck County, North Carolina

Map 11.1

COUNTY OF CURRITUCK

CERTIFIED MAIL
Return Receipt Requested

Date Filed 6/13/05

June 10, 2005

HD (Racy) Newbern
PO Box 176
Aydlett, NC 27916

RE: Special Use Permit

Dear Mr. Newbern,

At its June 6, 2005 meeting, the Currituck County Board of Commissioners voted to approve the special use permit to continue to operate a demolition landfill in Powells Point, Tax Map 110, Lot 38, 39 according to the following:

1. The applicant shall maintain the development strictly in accordance with the plans submitted to and approved by the Board of Commissioners, a copy of which is filed in the office of the Planning and Inspections Department.
2. If any of the conditions affixed hereto or any part thereof shall be held invalid or void, then this permit shall be void and of no effect.
3. That the special use permit shall be valid until 12/5/05 prior to which time the applicant must come back for renewal;
4. That the mulch sales storage area not exceed 6' in height, 30' in length and 15' in width;
5. That no demolition storage pile areas exceed 15' in height;
6. That the applicant maintain substantially high berms to effectively conceal all debris piles from public view from Caratoke Highway (US 158). The height of these berms shall be a minimum of 12 feet but may be higher depending on the height of debris piles;
7. That the berm height be uniform, complete, and continuous
8. That the applicant will be permitted one (1) permanent sign and one (1) temporary sign for the business.
9. That the "S" curve leading from the scales to the debris piles be better defined by constructing higher berms to conceal the piles from public view.

10. That no transportation equipment (tractors or trailers with or without debris) be parked or stored outside the berm area.

11. That the following comments from the county's Fire Marshall be incorporated within this approval:

    1. No Smoking except in designated areas are allowed. Signage should indicate appropriate areas.
    2. Fire operations will require an all weather surface and 20' access width to all areas of the compound. Would recommend 2 ingress/egress points.
    3. Each fuel-fired vehicle shall be equipped with a 2-A:20-B:C or higher fire extinguisher.
    4. A fire hydrant must be within 500' of all portions of the compound area.
    5. Plant growth must be maintained in order to prevent wind blown debris escaping the site.

12. That the hours of operation be set at 7:30 a.m. to 5 p.m. weekdays and 7:30 a.m. to 12 noon on Saturdays with no operations allowed on Sundays;

13. That all material must be kept on site at all times and that necessary steps are taken to keep material from blowing off the property; and,

14. Violations of SESC plan and DWQ permit must be addressed.

15. Staff Findings of Fact:

- The tract is located on the east side of Caratoke Hwy. approximately 200' south of the intersection with SR 1156 (North River Rd.) in Powells Point, Tax Map 110, parcels 38 & 39. Poplar Branch (ML) Township.
- The property is being utilized as a recycling center.
- The applicant received a Special Use Permit (SUP) on May 1, 2000 and a renewal on June 17, 2002 to temporarily store untreated demolition waste (treated & untreated wood products, cardboard, plastic, vinyl, wallboard, metal and shingles) on two (2) acres of land in an "Agriculture" zoning district which is permitted in an A district with a SUP.
- The applicant currently recycles demolition waste using a tub grinder. Since the UDO does not specifically list this use in the Table of Permissible Uses, the staff determined this use had impacts similar to a demolition landfill which required a special use permit in an "A" zoning district.
- According to county Zoning Maps, the nearest dwelling to the existing recycling area is approximately 300 feet west.
- The mulch stockpile sales area will be located a minimum of 25' feet off of Caratoke Hwy.

- No burning of waste will be permitted on the site unless a special use permit is granted for an incinerator. Further, all necessary state permits must be obtained prior to burning waste.
- The site is surrounded by the following land uses:
- West (Front) Commercial (Antique Store)-zoned "GB"
- East (Rear) Farmland - zoned "A"
- North (Side) Farmland (agricultural operations) - zoned "A"
- South (Side) Farmland - zoned "A"
- The 1990 Land Use Plan classifies this land as "Limited Transition".
- The proposed site is located along a Minor Arterial in the County's Thoroughfare Plan.
- According to the application, the storage area will not increase the county's ability to provide facilities in anyway.

Please also be advised that this permit is valid for six months and will expire on 12/5/05. If you have any questions, please call me at 252-232-3055, extension 262.

Sincerely,

Gary Ferguson, AICP
Planning Director

GF/tju

Encl: Special Use Permit

Cc: Development Code Enforcement Officer

JUN 2000
Section

COUNTY OF CURRITUCK
SPECIAL USE PERMIT GRANTED

On the date(s) listed below, the Board of Commissioners for the County of Currituck met and held a public hearing to consider the following application:

Applicant: Horation (Racy)D Newbern IV

Property Location:
Site : 7576 Caratoke Highway, Poplar Branch Township

Tax Map: 110 Lots: 38 and 39

Proposed Use of the Property: Demolition Landfill

Meeting Dates: 4/11/00 - Planning Board Recommendation
5/1/00 - Board of Commissioners' Public Hearing/Action

Having heard all the evidence and argument presented at the hearing, the Board finds that the application is complete, that the application complies with all of the applicable requirements of the Currituck County Unified Development Ordinance for the development proposed, and that therefore the application to make use of the above described property for the purpose indicated is hereby approved subject to all applicable provisions of the Unified Development Ordinance and the following conditions:

(1) The applicant shall complete the development strictly in accordance with the plans submitted to and approved by the Board of Commissioners, a copy of which is filed in the office of the Planning and Inspections Department.

(2) If any of the conditions affixed hereto or any part thereof shall be held invalid or void, then this permit shall be void and of no effect.

(3) This permit is valid for two years and will expire on May 1, 2002.

(4) Other conditions:

1) That the special use permit be valid for two years after which time the applicant must come back for renewal;

2) That the applicant post adequate bonds/guaranties in order to insure proper disposal of demolition waste materials;

3) That markers at a minimum of four (4) feet tall and painted red be placed at all four corners to delineate the storage area;

4) That all state and local (Solid Waste, Erosion & Sedimentation Control, State Stormwater and County Health Dept., NCDOT driveway, etc.) permits be obtained prior to beginning of operations and copies of permits be submitted to the Planning & Inspections Department;

5) That applicant show 2 marked employee parking spaces, Type B screening along the north, south and west boundaries of site and show a driveway apron and site triangles at entrance;

6) That the following comments from the county's Fire Marshall be incorporated within this approval:

1. No Smoking except in designated areas are allowed. Signage should indicate appropriate areas.
2. Fire operations will require an all weather surface and 20' access width to all areas of the compound. Would recommend 2 ingress/egress points.
3. Each fuel-fired vehicle shall be equipped with a 2-A:20-B:C or higher fire extinguisher.
4. A fire hydrant must be within 500' of all portions of the compound area.
5. Plant growth must be maintained in order to prevent hazard all year round.

7) That the hours of operation be set at 7:30 a.m to 5 p.m. weekdays and 7:30 a.m. to 12 noon on Saturdays with on operations allowed on Sundays:

8) That the Suggested Staff Findings of Fact be incorporated within the approval.

1. OWNER
HD & Marlene Newbern
P. O. Box 277
Powells Point, NC 27966
(252) 491-5744

APPLICANT
HD (Racy)Newbern, IV
P. O. Box 176
Aydlett, NC 27916
(252) 453-3032

2. The applicant requests a Special Use Permit (SUP) to temporarily store (for periods up to 6 months) untreated demolition waste (treated & untreated wood products, cardboard, plastic, vinyl, wallboard, metal and shingles) on two (2) acres of land in an "Agriculture " zoning district. The applicant proposes to recycle the demolition waste using a Morbark 1050 tub grinder and a 751 Bobcat for moving, piling and loading the grinder.

3. The tract is located on the east side of Caratoke Hwy. approximately 200' south of the intersection with SR 1156 (North River Rd.) in Powells Point, Tax Map 110, parcels 38 & 39, Poplar Branch (ML) Township.

4. The property is being utilized for a grazing area for horses

5. The applicant requests a Special Use Permit (SUP) to temporarily store untreated demolition waste (treated & untreated wood products, cardboard, plastic, vinyl, wallboard, metal and shingles) on two (2) acres of land in an "Agriculture" zoning district which is permitted in an A district with a SUP.

6. The applicant proposes to recycle the demolition waste using a tub grinder. Since the UDO does not specifically list this use in the Table of Permissible Uses, the staff determined the proposed use has impacts similar to a demolition landfill which requires a special use permit in an "A" zoning district.

7. Three (3) structures are proposed for the site: a pre-built scale house, an electrical building and a shop for equipment maintenance.

8. Adjacent property owners notices were mailed by the applicant on 3/13/00; adjacent property owner notices were mailed out by Plng. Staff on 4/14/00.

9. According to county Zoning Maps, the nearest dwelling to the stock pile is approximately 300 feet west.

10. The stock pile area will be located at least 100 feet from any property line.

11. No burning of waste will be permitted on the site unless a special use permit is granted for an incinerator. Further, all necessary state permits must be obtained prior to burning waste.

12. A soil and erosion control plan may be required since the applicant will be storing debris on more than one acre of land.

13. A landfill permit must be obtained from Solid Waste.

14. The site is surrounded by the following land uses:
West (Front) Commercial (Antique Store)- zoned "GB"
East (Rear) Farmland - zoned "A"
North (Side) Farmland (agricultural operations) - zoned "A"
South (Side) Farmland - zoned "A"

15. According to the applicant, the noise generated from the grinder will reach approximately 82 decibels at 100 feet. Below is a list of commonly experienced sounds in order to provide a sense of the relative magnitude of noise:

Very loud 100dBA jet flyover @1,000 ft.
90dBA motorcycle @25 ft.

Moderately loud 80dBA passenger car, 65mph @ 25 feet
60dBA air conditioner @ 20 ft.

16. Generally speaking, every reduction of 10 decibels results in reducing the apparent loudness by 1/2.

17. The 1990 Land Use Plan classifies this land as "Limited Transition".

18. The proposed site is located along a Minor Arterial in the County's Thoroughfare Plan.

19. According to the application, the storage area will not increase the county's ability to provide facilities in anyway.

IN WITNESS WHEREOF, the County has caused this permit to be issued in its name, and the undersigned, being all of the property owners/applicants of the property above described, do hereby accept this Special Use Permit together with all its conditions, as binding on them and their successors in interest.

Horace P. Kent III H. Kent III, Applicant/Property Owner of the above identified property, do hereby acknowledge receipt of this Special Use Permit. The undersigned owners do further acknowledge that no work may be done pursuant to this Permit except in accordance with all of its conditions and requirements and that this restriction shall be binding on them and their successors in interest.

Horatio D. Newbern
Applicant

Owner

NORTH CAROLINA
CURRITUCK COUNTY

I, Becky J. Sears, a Notary Public in and for said State and County, do hereby certify that Horatio D. Newbern personally appeared before me this day and acknowledge the due execution of the foregoing instrument.

WITNESS my hand and notarial seal, this the 16 day of June, 2000.

Becky J. Sears
Notary Public

BECKY J. SEARS NOTARY PUBLIC CURRITUCK COUNTY N.C.

My commission expires:
11/27/2003

COUNTY OF CURRITUCK

ATTEST:

Gwen H. Tatem (Seal)

S. Paul O'Neal
Chairman,
Board of Commissioners

(NOT VALID UNTIL FULLY EXECUTED AND RECORDED)

NOTE: CORPORATE SEALS ARE REQUIRED FOR CORPORATIONS

Attachment E

Operations Manual

OPERATIONS MANUAL

Soundside C&D Waste Transfer
&
Recycling Center
Currituck County, North Carolina

Prepared for:

SOUNDSIDE
RECYCLING & MATERIALS, INC.

Jarvisburg, North Carolina

December 2010

PERMIT ISSUE DOCUMENTS

RICHARDSON SMITH GARDNER
& ASSOCIATES
ENGINEERING & GEOLOGICAL
SERVICES

PRINTED ON 100% RECYCLED PAPER

OPERATIONS MANUAL

Soundside C&D Waste Transfer & Recycling Center
(NC Solid Waste Permit No. 27-05)
Currituck County, North Carolina

Prepared for:

SOUNDSIDE
RECYCLING & MATERIALS, INC.

7565 Caratoke Highway
Jarvisburg, North Carolina

To the Attention of:

Mr. Racy Newbern
Soundside Recycling & Materials, Inc.

RSG Project No. SOUND-10-1

Don Misenheimer
Project Scientist

Stacey A. Smith, P.E.
Project Manager

NORTH CAROLINA PROFESSIONAL SEAL 023002 ENGINEER STACEY A. SMITH

12-21-10

December 2010

RICHARDSON SMITH GARDNER & ASSOCIATES
ENGINEERING & GEOLOGICAL SERVICES

PRINTED ON 100% RECYCLED PAPER

SOUNDSIDE C&D WASTE TRANSFER & RECYCLING CENTER
CURRITUCK COUNTY, NORTH CAROLINA

OPERATIONS MANUAL

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SECTION 1.0
GENERAL FACILITY OPERATIONS

1.1 OVERVIEW

This Operations Manual was prepared for operations of the Soundside Recycling & Materials, Inc. facility (Permit No. 27-05) located at 7565 Caratoke Highway in Jarvisburg, North Carolina as shown in **Figure 1**. This document discusses the operation of the transfer station and other solid waste management activities as follows:

- C&D Transfer Station and Recovery Area;
- Recycling and Processing Area; and
- Composting Area.

Refer to **Figure 2** for the general layout of the facility.

The information contained herein was prepared to provide personnel with an understanding of how the Design Engineer has envisioned that the completed facility would be operated. While deviations from the operations outlined here may be acceptable, they should be reviewed and approved by the Design Engineer and subject to the approval of the Division of Waste Management. Please refer to the appropriate permit application for a detailed discussion and calculations for the individual components of operation and process unit.

All personnel involved with the management or supervision of the facility shall review the documents and update from time to time as needed. A copy of this Operations Manual will be kept at the facility and will be available for use at all times.

As required by the Currituck County Special Use Permit, the waste management operations will be relocated east of the power line easement. There are approximately 13 dwellings along Caratoke Highway and within 500 feet of the property boundary. However, these dwellings are well beyond (>500 feet) the waste management operations.

The total property acreage is approximately 32 acres and the remaining areas as shown on **Drawing No. S1** (Attachment K) are as follows:

- Product Sales Area: ~ 2 acres
- Transfer and Recovery Area: ~ 1.2 acres
- Recycling and Processing Area: ~ 1.5 acres
- Compost Area: ~ 1.4 acres
- LCID Staging Area: ~ 4 acres

1.2 CONTACT INFORMATION

All correspondence and questions concerning the operation of the Soundside Recycling & Materials, Inc. Transfer Station should be directed to the appropriate company and regulatory personnel listed below. For fire or police emergencies dial 911.

1.2.1 Landowner and Operator

Landowner:

Mr. Horatio D. Newbern, III
7519 Caratoke Hwy
Jarvisburg, North Carolina, NC 27947
Phone: (252) 491-5744

Operator:

Soundside Recycling & Materials, Inc. (Operator)
7565 Caratoke Hwy
Jarvisburg, North Carolina, NC 27947
Phone: (252) 491-8666
Fax: (252) 491-5454

Contact: H.D. "Racy" Newbern, IV
racysoundside@mchsi.com

1.2.2 Richardson Smith Gardner & Associates, Inc. (Design Engineer)

Richardson Smith Gardner & Associates, Inc.
14 N. Boylan Avenue
Raleigh, North Carolina, NC 27603
Phone: (919) 828-0577
Fax: (919) 828-3899

Contact: Stacey A. Smith, P.E.
stacey@rsgengineers.com

Contact: Richard M. Sheehan
richard@rsgengineers.com

1.2.3 Coker Composting and Consulting (Consultant)

Coker Composting & Consulting
1213 Spradlin Rd.
Vinton, Virginia 24179
Phone: (540) 890-1086
Fax: (540) 890-1087

Contact: Craig Coker
cscoker@verizon.net

1.2.4 North Carolina Department of Environment and Natural Resources

North Carolina DENR - Raleigh Central Office
401 Oberlin Road, Suite 150
Raleigh, NC 27605
Phone: (919) 508-8400
Fax: (919) 715-3605

Contact: Donna Wilson
donna.wilson@ncmail.net

Division of Waste Management (DWM) - Solid Waste Section:

Field Operations Branch Head:	Mark Poindexter
Eastern Regional Supervisor:	Dennis Shackelford
Waste Management Specialist:	Chuck Boyette

1.3 ACCESS CONTROL

Limiting access to the solid waste management facility is important for the following reasons:

- Unauthorized and illegal dumping of waste materials is prevented.
- Trespassing, and injury resulting therefrom, is discouraged.
- The risk of vandalism is greatly reduced.

Access to active areas of the transfer stations will be controlled by a combination of fences and natural barriers, and strictly enforced operating hours. An attendant will be on duty at all times when the facility is open for public use to enforce access restrictions.

1.3.1 Physical Restraints

The site will be accessed by an entrance on Caratoke Highway (U.S. Hwy 158) as shown on **Figure 2**. Scales and a office are provided at the entrance. All waste will have been weighed prior to being processed on the site. The entrance will have a gate which will be securely locked during non-operating hours.

1.3.2 Security

Frequent inspections of gates and fences will be performed by facility personnel. Evidence of trespassing, vandalism, or illegal operation will be reported to the Owner.

1.4 SIGNAGE

A prominent sign(s) containing the information required by the DWM will be placed at the main facility entrance. This sign(s) will provide information on permit number, operating hours, operating procedures, acceptable wastes and emergency contact numbers. Additional signage

will be provided as necessary within the facility to distinctly distinguish the roadway to the transfer station and recycling area(s). Service and maintenance roads for use by operations personnel will be clearly marked and barriers (e.g., traffic cones, barrels, etc.) will be provided as required.

1.5 COMMUNICATIONS

The office has telephones in case of emergency and for the conduct of day-to-day business. Emergency telephone numbers are displayed in the office.

1.6 FACILITY OPERATING HOURS

Normal hours of operation will be 7:30 A.M. to 5:00 P.M. Monday to Friday and 7:00 A.M. to 12:00 noon on Saturday. Facility will be closed on Sunday.

In the event of disaster or other emergency situations the supervisor will request approval from the commission's regional office to allow additional temporary operating hours.

1.7 LITTER CONTROL

The transfer area and litter fencing within the site provide barriers against scattering litter; the vegetative trees/bushes act as a barrier to keep litter contained within the site. Transfer Station Operators pick up litter within the site daily and respond to weather and heavy wind conditions that may spread litter.

The litter control crew picks up litter outside the site fences and on access roads each weekday. Any load that is not secured in a manner that would prevent material from leaving the vehicle while it is in motion is subject to an additional fee. Transfer trailers are covered by heavy tarp lids to minimize litter and potential for birds to enter the trailer and spread litter.

1.8 FIRE AND SAFETY

1.8.1 Fire Control

The possibility of fire on the site or a piece of equipment must be anticipated in the daily operation of the facility. A mobile 9,000 gallon water tank truck will be on-site to control accidental fires and will obtain water from one of the two site wet detention basins. For larger or more serious outbreaks, the local fire department will respond. A fire hydrant exists along Highway 158 (Caratoke Highway) across from the entrance and an additional fire hose will be staged on-site to aid in fire response.

The Owner will verbally notify the DWM (see **Section 1.2**) within 24 hours of discovery of a fire on the site. In addition, written documentation describing the fire, the actions carried out to extinguish the fire, and a strategy for preventing future occurrences will be provided to the DWM within 15 days following any such occurrence.

1.8.2 Safety

All aspects of the operation of the facility were developed with the health and safety of operations staff, customers, and neighbors in mind. Prior to commencement of operations, a member of the operating staff will be designated site safety officer. This individual, together with the facility's management will modify the site safety and emergency response program to remain consistent with National Solid Waste Management Association and Occupational Safety and Health Administration (OSHA) guidance.

Safety equipment provided includes equipment rollover protective cabs, seat belts, audible reverse warning devices, hard hats, safety shoes, and first aid kits. All personnel will be encouraged to complete the American Red Cross Basic First Aid Course. Other safety requirements as designated by the Owner will also be implemented.

1.9 SEVERE WEATHER CONDITIONS

Unusual weather conditions can directly affect the operation of the facility. Some of these weather conditions and recommended operational responses are as follows.

1.9.1 Ice Storms

An ice storm or snow storm can make access to the facility dangerous, prevent movement and, will require closure of all of the facilities operations until the ice is removed or has melted.

1.9.2 Heavy Rains

Exposed soil surfaces can create a muddy situation in some portions of the facility during rainy periods. The control of drainage and use of crushed stone on unpaved roads will provide all-weather access for the site and promote drainage away from critical areas. In areas where the aggregate surface is washed away or otherwise damaged, new aggregate will be used for repair. Transfer and recovery operations will not be performed during rain events.

1.9.3 Electrical Storms

The open areas of the facility are susceptible to the hazards of an electrical storm. If necessary, all activities will be temporarily suspended during such an event. To guarantee the safety of all field personnel, refuge will be taken in the on-site buildings or in rubber-tired vehicles.

1.9.4 Windy Conditions

Transfer Station Facility operations during a particularly windy period may require that the active tipping area be temporarily suspended.

1.9.5 Violent Storms

In the event of hurricane, tornado, or severe winter storm warning issued by the National Weather Service, facility operations may be temporarily suspended until the warning is lifted.

1.10 EQUIPMENT REQUIREMENTS

The Owner will maintain on-site equipment required to perform the necessary transfer and recycling activities. Periodic maintenance of all equipment, and minor and major repair work will be performed at designated maintenance zones. For a list of the anticipated equipment required for operation and maintenance of the site refer to **Section 2.5.5**.

If equipment breakdowns occur, additional equipment is available to be delivered to the site within 24 hours until the assigned site equipment is repaired. Additionally, the recycling and transfer operations include both a loader and a track hoe. If either one of these pieces are subject to breakdown, the other can perform the same function for a short duration.

Long term outages are considered outages that are greater than 24 hours. These long term outages would be addressed on a case by case basis. However, in general, the operations are equipment and fuel driven where operations can occur without power. With respect to scales and guardhouse, manual tickets may be processed for short durations, a generator may also be provided to restore function to electrical facilities. Power would be restored as quickly as possible to maintain business as usual.

1.11 PERSONNEL REQUIREMENTS

At least one member of the supervisory staff will be experienced in the management of transfer station operations. Each facility employee will go through an annual training course (led by supervisory staff). As part of this training, personnel learn to recognize loads which may contain prohibited wastes. For a detailed list of personnel requirements for operation and maintenance of the site refer to **Section 2.5.4**.

1.12 HEALTH AND SAFETY

All aspects of the transfer and recycling center operations were developed with the health and safety of the operating staff, customers, and neighbors in mind. Prior to commencement of operations of the facility, a member of the operating staff will be designated site safety officer. This individual, together with the facility's management will modify the site safety and emergency response program to remain consistent with National Solid Waste Management Association and Occupational Safety and Health Administration (OSHA) guidance.

Safety equipment provided includes equipment rollover protective cabs, seat belts, audible reverse warning devices, hard hats, safety shoes, and first aid kits. Facility personnel will be encouraged to complete the American Red Cross Basic First Aid Course. Other safety requirements as designated by the Owner will also be implemented.

Each facility employee will go through annual training course in health and safety (led by supervisory staff). All training shall be documented and attested to by signatures of the trainer and trainee. The following are some general recommendations for the health and safety of workers at the Soundside Recycling & Materials, Inc. facility.

1.12.1 Personal Hygiene

The following items are recommended as a minimum of practice:

- Wash hands before eating, drinking, or smoking.
- Wear personal protective equipment as described in **Section 1.12.2.**
- Wash, disinfect, and bandage ANY cut, no matter how small it is. Any break in the skin can become a source of infection.
- Keep fingernails closely trimmed and clean (dirty nails can harbor pathogens).

1.12.2 Personal Protective Equipment

Personal Protective Equipment (PPE) must be evaluated as to the level of protection necessary for particular operating conditions and then made available to facility employees. The list below includes the PPE typically used and/or required in a solid waste management facility workplace.

- Safety shoes with steel toes.
- Noise reduction protection should be used in areas where extended exposure to continuous high decibel levels are expected.
- Disposable rubber latex or chemical resistant gloves for handling and/or sampling of waste materials.
- Dust filter masks

Following use, PPE's should be disposed of or adequately cleaned, dried, or readied for reuse.

1.12.3 Mechanical Equipment Hazard Prevention

The loaders and other equipment should be operated with care and caution. All safety equipment such as horns, backup alarms, and lights should be functional. A Lockout-Tagout program shall be used to identify equipment in need or under repair and insure that operation is "off-limits" prior to maintenance or repair. All operators shall be trained in the proper operation of equipment.

1.12.4 Employee Health and Safety

Some general safety rules are:

- Consider safety first when planning and conducting activities.
- Review the equipment O&M Manual prior to attempting repairs/changes.

- Remember the buddy system in case of repair of mechanical equipment
- Post emergency contact phone numbers.
- Provide easy and visible access to the Right to Know materials.
- Provide easy and visible access to the first aid kit and fire extinguishers.

1.12.5 Physical Exposure

Facility personnel may come in contact with the fluids, solids, and airborne constituents found at the transfer and recycling center. Routine training should be conducted regarding the individual and collective materials used in the recycling process and their associated hazards. Training concerning safe work practices around these potential exposures should use equipment and proper disposal procedures.

1.12.6 Material Safety Data Sheets

Material Safety Data Sheets (MSDS) shall be collected on every waste (if available) that enters the facility. Information shall also be made available for all chemicals stored on site for use by the facility. MSDS sheets shall be stored in a location with all other Right to Know information for the site.

1.12.7 Asbestos Containing Materials

The operator shall be aware that recycling of C&D wastes, more specifically demolition debris, the potential for Asbestos Containing Material exist. Therefore, site personnel shall follow requirements of NESHAP as outlined in guidelines prepared by the Health Hazards Control Unit of the Division of Public Heath, Department of Health & Human Services entitled "Guidelines for Handling Asbestos-Containing Building Materials at C&D Recycling Centers in North Carolina" and applicable OSHA Standards regarding Asbestos. A copy of this guidance is provided in **Appendix C**.

1.13 UTILITIES

Electrical power, water, and telephone will be provided at the scale house/office. Restrooms will be provided at the site.

1.14 RECORD KEEPING PROGRAM

The Owner will maintain the following records in an operating record at the solid waste management facility:

A. Waste inspection records (see **Section 2.4**);
B. Daily tonnage records - including source of generation, scale certifications;
C. Waste determination records;
D. List of generators and haulers that have attempted to dispose of restricted wastes;
E. Employee training procedures and records of training completed;
F. Leachate records (see **Section 3.3.3**);

G. Current permit;
H. Site drawings;
I. Annual facility reports;
J. Cost estimates or financial assurance documentation;
K. Compost product testing; and
L. Recycled material sales.

The operating record will be kept up to date by the Owner or his designee. It will be presented upon request to the DWM for inspection. A copy of this **Operations Manual** will be kept at the facility and will be available for use at all times.

SECTION 2.0
WASTE HANDLING OPERATIONS

2.1 OVERVIEW

This section describes the required waste handling operations for the Soundside Recycling & Materials, Inc. facility. In addition to the C&D and composting waste received at this facility, the facility will also processes recyclables new construction wastes such as lumber, ferrous and non-ferrous metals, etc. These materials are stored at the facility until there are sufficient quantities for pick up by various recycling contractors.

All recyclable material will be processed and removed from the facility within year of receipt. All incoming waste sales and recycled or processed final product sales is managed through the Quickbooks accounting software that categorizes the quantity by customer and by product. Sales will drive the removal of products and the software program will manage the relative quantities for reporting purposes.

2.2 ACCEPTABLE WASTES

2.2.1 C&D Transfer Station

Only the following wastes may be received at the C&D transfer station:

- Construction and Demolition Debris Waste: (Waste or debris from construction, remodeling, repair, or demolition operations on pavement or other structures, and untreated and unpainted wood)
- Inert Debris Waste: (Concrete, brick, concrete block, uncontaminated soils and rock, etc.)
- Wooden Pallets
- Land Clearing & Inert Debris: as defined by G.S. 130A-290 (a) (15), specifically, waste that is generated solely from land-clearing activities, such as stumps, trees, etc.
- Asphalt: in accordance with G.S. 130A-294 (m)
- Other Wastes as Approved by the Solid Waste Section of the Division of Waste Management.

2.2.2 Recycling Area

Only the following wastes may be received at the facility recycling area or as separated in the transfer area(s):

- Non-treated, non-painted clean wood (lumber)[1];
- Engineered Wood Products (EWP)[1];

[1] Engineered wood products such as particle board or glue laminated timbers are not acceptable for composting only.

- Pallets (damaged and un-damaged);
- Cardboard;
- Concrete;
- Brick and block (undamaged and un-painted);
- Metal (ferrous and non-ferrous);
- Glass;
- Shingles (non-asbestos containing);
- Plastic (vinyl siding, High-Density Polyethylene (HDPE) buckets, etc.);
- Sheet Rock/Gypsum; and
- Other Wastes as Approved by the Solid Waste Section of the Division of Waste Management.

2.2.3 Compost Area

The compost area will be classified as a Type 4 compost facility which will be eligible to receive all wastes in accordance with 15A NCAC 13B .1402 (f)(4). The compost facility area is expected to receive the following waste products:

- Engineered Wood Product (EWP) from clean construction debris;
- Seafood processing wastes from regional manufacturers;
- Poultry litter from area farms; and
- Food scraps from groceries and restaurants;
- Yard wastes;
- Vegetative debris;
- Grease trap wastes from area restaurants.
- Other Wastes as Approved by the Solid Waste Section of the Division of Waste Management.

The composting portion of this application is not approved.
D. Wilson
Feb. 2011

2.2.4 Asphalt Shingles

Only residential tear-off shingles may be recycled. The maximum storage volume that will be stored onsite is approximately 80 CY, in two (2) 40 CY covered containers. No grinding will occur on site. The shingles will arrive on site with a manifest under "shingle" sub-category. The shingles will be dumped directly at the storage area where they will stay covered and undisturbed until a processing company removes them for processing offsite. Records of all shingles leaving the site will be kept. The shingle storage is limited to one year, and the material not recycled after one year will be removed from the site and properly disposed.

2.3 PROHIBITED WASTES

2.3.1 C&D Transfer Station

Only wastes, as defined in **Section 2.2.1** above may be accepted in the C&D transfer station. No other wastes, including asbestos waste, may be accepted.

2.3.2 Recycling Area

Only wastes, as defined in **Section 2.2.2** above may be accepted in the Recycling Area. No asbestos containing wastes will be accepted.

2.3.3 Compost Area

Only wastes, as defined in **Section 2.2.3** above may be accepted in the C&D transfer station. No other wastes may be accepted. Under no conditions will the Compost Area accept the following wastes:

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- Plastics, glass, metal;
- Painted, stained or pressure treated wood, wood containing Chromated Copper Arsenate (CCA); wood containing creosote; and demolition debris;
- Biosolids and septage;
- Mixed municipal solid waste, tires, batteries, electronics;
- Petroleum containing materials or wastes;
- Medical wastes, radioactive materials, universal wastes or hazardous wastes.

2.4 WASTE SCREENING PROGRAMS

In order to assure that prohibited wastes are not entering the facility, screening programs have been implemented. Waste received at both the scale house entrance and waste taken to the tipping areas or recycling areas are monitored by trained personnel. These individuals have been trained to spot indications of suspicious wastes, including: hazardous placarding or markings, liquids, powders or dusts, sludges, bright or unusual colors, drums or commercial size containers, and "chemical" odors. Screening programs for visual and olfactory characteristics of prohibited wastes are an ongoing part of the facility operation. Unacceptable waste and bypass materials will be removed from the site at least weekly.

2.4.1 Waste Receiving and Inspection

All vehicles must stop at the scale house located at the entrance of the facility and visitors are required to sign-in. All waste transportation vehicles are weighed and the content of the load assessed. The scale attendant(s) requests from the driver of the vehicle a description of the waste it is carrying to ensure that unacceptable waste is not allowed into the facility. The attendant(s) then visually checks the vehicle as it crosses the scale. Signs informing users of the acceptable and unacceptable types of waste are posted at the scale house. Once passing the scales, the vehicles are routed to the appropriate transfer or recycling area as appropriate.

Vehicles are randomly selected for screening on a regular basis, depending on personnel

available. At least one vehicle per week will be randomly selected by inspection personnel. A random truck number and time will be selected (e.g., the tenth load after 10:00 a.m.) on the day of inspections. However, if something looks suspicious is spotted in any waste load, that load is inspected further.

Vehicles selected for inspection are directed to an area on the tipping floor where the vehicle will be unloaded. Waste is carefully spread using suitable equipment. An attendant trained to identify wastes that are unacceptable inspects the waste discharged at the screening area. If unacceptable waste is found, the load will be isolated, reloaded, and the generator/hauler will be logged and escorted out of the facility. For unacceptable wastes that are non-hazardous, the Owner will then notify officials of the DWM (see **Section 1.2**) within 24 hours of attempted disposal of any waste the facility is not permitted to receive in order to determine the proper course of action. The hauler is responsible for removing unacceptable waste from the facility property.

If no unacceptable waste is found, the load will be loaded into the transfer trailer and/or equipment. All random waste inspections will be documented by operations staff using the waste screening form provided in **Appendix B**.

In addition to random waste screening described above, waste unloaded on the tipping floor will be inspected by the equipment operators, trained to spot unacceptable wastes, before and during loading into the transfer trailer and/or equipment. Any suspicious looking waste is reported immediately to the designated primary inspector for further evaluation.

2.5 FACILITY OPERATIONS

2.5.1 Operating Capacity

The Operating Capacity for the solid waste facility is estimated to be approximately 10,000 tons per year or an average of 27.5 tons per day (365 day year) of mixed waste as defined in **Section 2.2**.

2.5.2 Service Area

The anticipated service area for the transfer facility (subject to change) is generally anticipated to be concentrated in Currituck County and Dare County. Waste will not be accepted from out of state.

2.5.3 Disposal Facility

The anticipated disposal facilities for the transfer station (subject to change) includes any facility in the State of North Carolina or the Commonwealth of Virginia that holds a solid waste permit for the specific waste disposed. However, all wastes are generally anticipated for disposal at the following facilities:

1. East Carolina Environmental, Aulander, NC - Permit # 0803
2. John C. Holland Landfill, Suffolk, VA - Permit # 280
3. Currituck County Transfer Station, Maple, NC - Permit # 2703-T (accepts tires)
4. Waterway Recycling, LLC, Chesapeake, VA - Permit # PBR 506
5. Atlantic Waste Disposal, Waverly, VA - Permit # 562 (accepts tires)

In the event that new disposal facility agreements are negotiated other than the list (above) the facility will provide a notice to the Division of Waste Management within 30 calendar days and a permit modification may be required.

2.5.4 Personnel Requirements

The anticipated personnel requirements for operation and maintenance of the site are listed in the following table.

Description	Primary Function (Allocation)
1) Site Manager (1)	Overall management of the facility
2) Scale house Attendant (1)	Receiving and weight for incoming loads
3) Operators (2)	Management of tipping floor and recycling areas
4) Commercial Drivers (2)*	Transfer of C&D
5) Labor (1)	General labor and operational staff around the site

***** Commercial drivers subject to change in response to actual volume of waste received.

2.5.5 Equipment Requirements

The anticipated equipment requirements for operation and maintenance of the site are listed in the following table.

Description	Primary Function (Allocation)
1) Excavator (2)	Recycling operations and sorting
2) Front End Loader (1)	Loading, recycling, and site cleanup
3) Skid Steer Loader (2)	Loading, recycling, and site cleanup
4) Transfer Trucks (3)*	Collection and transfer of C&D
5) Dump Truck (Roll Off)	Hauling material around site
6) Screen	Screening and sorting of various materials
7) Tub Grinder	Grinding of green wastes and wood products
8) Baler (1)	Baling of plastics, cardboard and some metals
9) Conveyor/Sorting Line	Sorting/separation of construction waste
10) Concrete Grinder	Grinding unpainted concrete block, etc.

* Commercial drivers subject to change in response to actual volume of waste received.

2.6 TRANSFER OPERATIONS

2.6.1 Access

Traffic will be clearly directed to the appropriate transfer, recycling, or composting area. Traffic speed on the site should be less than 10 MPH. Rutting of gravel roadway surfaces must be repaired by placement of additional gravel on the roadway and not solely by grading the rut. This will maintain the separator geotextile placed below most gravel roadway surfaces.

2.6.2 General Procedures

The transfer operations will be conducted in accordance with the approved Operation Plan and conditions of the Solid Waste Permit issued by the North Carolina Division of Solid Waste Management (DWM).

Facility operations are anticipated as follows:

1. Collection vehicles delivering waste to the facility will enter through the main entrance;

2. Pass over the scales for weight;

3. Continue along the access road until reaching the transfer area, recycling area, and/or composting area;

4. The vehicles will back onto the tipping pad or direct offload area (recycling) to an area designated by the attendant. C&D vehicles will be directed to a raised concrete transfer station pad.

5. Once the vehicle is in position, the waste load will be discharged directly onto the tipping pad.

6. A spotter will inspect the discharged waste before it is mixed with other waste on the tipping pad and loaded by a rubber-tired loader into the open top transfer trailers, specifically designed for hauling C&D wastes, respectively, located in the Transfer area.

2.6.3 Recycling and Recovery

As a means of capturing recyclable materials and/or waste screening, separation (recovery) will be conducted in the transfer area as follows:

1. The track hoe, loader, or laborers will separate materials to be recycled and/or processed from the loads before the waste is loaded into the open top transfer trailers. It is anticipated that most of the recyclables and materials to be separated will arrive at the transfer area as C&D waste. Demolition debris will not be recycled and/or processed and will be directly pushed into the transfer vehicle. Asbestos (known) containing C&D will not be accepted. MSW wastes will not be accepted.

2. Materials to be recycled and/or processed may stay on the pad (not in containers) for no longer than the close of the business day. At the end of each day, all recyclable materials shall be transported by skid steer loader, etc. to the recycling area in appropriately labeled bins, roll-off containers, or storage piles.

3. Engineered wood products (any wood other than virgin wood and wood products not accepted under **Section 2.3.1**) waste will be placed in the engineered wood product storage pile.

4. Clean wood (non-treated and non-painted) will be placed in the clean wood storage pile. No other processed wood products will be accepted.

5. All other materials, as defined in **Section 2.2.2,** to be recycled will be pulled from the C&D waste and placed outside the transfer area to the recycling areas in appropriately labeled bins, roll-off containers, or storage piles.

6. Cardboard will be bailed and stored on a stone base (pad) in the Transfer and Recovery Area. Baled cardboard will be covered with a tarp to control run-on and run-off. Loose cardboard (prior to baling) will in a covered container in the Transfer and Recovery Area, where run-on and run-off is controlled.

7. Concrete (non-painted cement and asphaltic/bituminous) may be delivered and stockpiled at the limits of the recycling area until a load is generated or it is removed from the site for sale as fill, aggregate, etc., as markets allow.

8. Shingles will be transported to the transfer area and stored in two (2) 40 CY covered containers.

9. Gypsum materials will be recovered or directly offloaded onto a crushed stone or concrete pad as shown in **Drawing No. S1**. The material will be allowed to weather and will be ground and screened to remove the paper. The paper will be incorporated into the proposed compost operation. The screened gypsum will be sold locally as a soil amendment. Gypsum storage will consist of a pile surrounded on three (3) sides by 2-3 foot berms. A liner system similar to the compost pad design will be deployed under the stone base in this storage area. The pile will remain uncovered as the gypsum processing will be wet.

10. Land clearing (green waste) and inert debris will be staged in the recycling and process area. However in the event of large volumes, additional storage areas are in the northern portion of the site labeled Land Clearing and Inert Debris Storage prior to processing.

11. Metals will be containerized.

12. Plastics will be bailed and stored on a stone base (pad) in the Transfer and Recovery Area. Baled plastic will be covered with a tarp to control run-on and run-off. Loose plastic (prior to baling) will in a covered container in the Transfer and Recovery Area, where run-on and run-off is controlled.

2.6.4 Transfer Manifest Documentation

Soundside employs a truck scale which employs a digital indicator. The indicator outputs a vehicles gross weight which is used to manually calculate the weight of the load brought on-site. This method tracks all inbound and outbound waste. Inbound traffic will follow procedures outlined in **Section 2.6.2**. Outbound transfer operations are anticipated as follows:

1. Once the transfer trailer is full, the driver will exit over the scales and scalehouse for weight;

2. The scalehouse attendant will prepare a load summary including weight and a source summary for all wastes received in that trailer's load. The attendant will then instruct the driver to the appropriate disposal facility as outlined in **Section 2.5.3** based on waste type and/or source summary.

2.7 RECYCLING AREA OPERATIONS

The facility's recycling area located east of the transfer area is used to store, separate, and contain recyclable materials. These materials are generated from separated waste from the transfer station and/or pre-sorted materials such as new C&D directly off-loaded into an appropriate container or storage pile. The facility is equipped with equipment to facilitate hand sorting of materials, and bins for storage as defined in **Section 2.5.5**. During normal (non-emergency) working days, the land clearing debris and green waste that will be stored in the Land Clearing and Inert Debris Storage area will have a maximum volume of 6,000 cubic yards. However, this area is been identified as a hurricane even storage area.

2.7.1 Grinding Operations

Most of the materials required for composting do not require grinding and/or chipping, but materials such as wood wastes and engineered wood products may require processing to reduce the particle size optimal for composting. Grinding and/or chipping is conducted in the Recycling and Process Area. The grinding operations will be conducted

as needed to facilitate the composting and mulching operations such that particles have been reduced to 1/4" to 2". It is anticipated that grinding will be conducted monthly at a minimum. In the event of contract grinding and chipping services, a Health and Safety Plan shall be submitted for review prior to grinding operations including all procedures and methods for implementing a safety program for anticipated equipment and personnel used in the operation. Various grinding methods are available and pose both maintenance and safety hazards. Please refer to the manufacturer's or subcontractor's safety and or maintenance literature prior to operating equipment at the site.

2.7.2 Screening Operations

Screening is conducted for mulching and composting operations. Compost is screened after the curing period has been completed to provide a uniform soil-like material for distribution to the public. The screening process removes remaining uncomposted and/or large materials for a uniform compost product. The material is screened to achieve a maximum particle size of 3/8" or as modified from time to time to meet market demands. The material not passing the screen "overs" (>3/8") are stored in the compost storage area and utilized as bulking agents or, if necessary, re-ground or chipped for additional composting. The screening operations are conducted in an area just outside the composting area. The finished compost product(<3/8") is stored on site in a customer loading area until sold. The material not passing the screen "overs" (>3/8") are stored in the bulking agent storage area and utilized as bulking agents for incoming wastes.

2.7.3 Conveyor and Sorting Operations

The conveyor is employed to transfer wastes from the transfer pad to a sorting line. The sorting process is done manually in which the transfer area staff separates wastes. These wastes will either be containerized, stock piled, or bailed according to **Section 2.6.3.**

2.7.4 Containers

Containers (generally 8'x20' or 8'x15') holding various recyclable, separated, or other transfer related items will be stored in the recycling area. The containers will be removed from the site as they are filled.

The maximum volume of onsite containers are listed in the following table:

Waste/Recycle Type	Maximum Available Onsite Storage Volume
1) Tires	40 cubic yards (CY)
2) Unacceptable Wastes	40 CY
3) Cardboard (Loose)	40 CY
4) Shingles	80 CY
5) Plastic (Loose)	40 CY

Waste/Recycle Type	Maximum Available Onsite Storage Volume
6) Plastic/Cardboard Bales	Limit of 50 Bales (Cardboard and Plastic)
7) Glass	40 CY
8) Metal	40 CY

2.7.5 Other Storage Areas

All other recyclable waste products will be stored around the recycling area. These products will be maintained in discrete piles and/or containers shown on the site plan as follows:

- Wood pallets will be delivered and stockpiled;
- Concrete/asphalt materials will be delivered and stockpiled;
- Clean wood debris will be stockpiled;
- Cardboard and plastics will be bailed into 1,000 lb bails in a press. Approximately 40 cubic yards of storage is available for onsite cardboard bale storage;
- Sheet Rock/Gypsum will be stockpiled;
- Tires will be containerized;
- Unacceptable wastes will be containerized;
- Metal (ferrous and non-ferrous) will be containerized;
- Compost will be stockpiled;
- Engineered wood products (EWP) will be stockpiled;
- Mulch will be stockpiled;
- Shingles will be containerized;
- All By-Pass (post processed) construction and demolition wastes will be containerized; and
- Glass will be containerized and sent to a recycling center or added to the by-pass pile area for disposal.

The maximum volume of onsite piles are listed in the following table.

Waste/Recycle Type	Maximum Available Onsite Storage Volume
1) Colored Mulch	700 cubic yards (CY)
2) Mulch	700 CY
3) Compost	700 CY
4) Recycled Concrete	500 CY
5) Concrete Brick/Block	700 CY
6) Gypsum	750 CY
7) Green Waste	250 CY
8) Pallets	250 CY

Waste/Recycle Type	Maximum Available Onsite Storage Volume
9) Clean Wood	250 CY
10) Concrete	1000 CY
11) Engineered Wood Products	250 CY
12) Clean Mulch	700 CY

2.7.6 Unacceptable Wastes

The following wastes are unacceptable at the C&D transfer station:

- Waste Tires
- MSW Waste
- Other Unapproved Wastes

Any wastes not described in **Section 2.2.1** are not accepted at the facility, but if these are found during the sorting process, they will be sorted and stored in covered containers until they are transported to a proper Disposal Facility listed in **Section 2.5.3**.

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2.8 COMPOST AREA OPERATIONS

The facility's compost area located east of the transfer area is used for the composting of acceptable waste as defined in **Section 2.2.3** The acceptable waste is separated and is placed in the compost area. The waste is then assessed and a recipe is formulated using a ground up bulking agent, such as wood chips, and is added to the acceptable waste. Once a recipe for the waste is established, the mixture is placed in windrows and the composting process ensues. A complete Compost Operations Manual with the detailed process has been installed as **Appendix A** of this manual.

2.9 MARKETS

The final destination of the recyclable materials separated from the waste may vary depending on market prices for such materials. However, final markets are anticipated as follows:

a. Mulch: The mulch[2] will be sold locally. Some of the mulch will be colored prior to the sale of it.

b. Cardboard: The cardboard will be bailed and transported to Butler Paper Recycling, Inc.

[2] All products are staged and sold in the product sales area along the western end of the property.

c.	Pallets:	The pallets will be ground into mulch and sold[3] on site.
d.	Plastics:	APL Plastics, Inc.
e.	Gypsum/Sheet Rock:	The gypsum[3] wallboard will either be composted (paper), sold[4], or land applied locally (i.e. local peanut farms).
f.	Shingles:	Emerging market for shingles is currently being explored[5] for use as an additive in asphalt.
g.	Concrete/Brick/Block:	These materials[3] will be sold as alternative stone base, rip-rap, or whole blocks.
h.	Compost:	The final compost[3] product will be sold as a soil amendment and/or topsoil.
i.	Metals:	All of the metal wastes are transported to Sims Metal America recycling facility which is located in Chesapeake, Virginia.

2.10 CARBON OFFSETS

As the emerging protocols for composting become available in the United States, additional funding will be pursued in the diversion of wastes from landfills. This will supplement the markets (income) side of the operation.

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3 All products are staged and sold in the product sales area along the western end of the property.

4 Recycling Works, Volume 4, No. 1, March 1998, "Wallboard Scrap is "Gold" For North Carolina Recycler"

5 For more information regarding the implementation of shingles in asphalt refer to "Minnesota's Experience Using Shingle Scrap in Bituminous Pavements" which can be found at the following link: http://www.mrr.dot.state.mn.us/research/MnROAD_Project/MnRoadReports/MnRoadOnlineReports/96-34.pdf

SECTION 3.0
ENVIRONMENTAL MANAGEMENT

3.1 OVERVIEW

This section reviews the overall environmental management tasks required for the successful operation of the facility.

3.2 SURFACE WATER CONTROL

As used herein, the definition of "surface water" is water which results from precipitation or site run-on that has not contacted the waste.

Proper control of surface water at the transfer or recycling areas will accomplish the following goals:

- Prevent the run-on of surface water into waste handling area(s);
- Prevent the run-off of surface water that has come into contact with the waste (i.e. leachate);
- Limit the erosion caused by surface waters; and
- Limit sediments carried off-site by surface waters.

Erosion and sedimentation control plans are approved by the Division of Land Quality plan approved dated July 11, 2006, included in Attachment F. Additionally the site is monitored under the NCDENR Division of Water Quality stormwater permit dated January 10, 2002 for the two proposed detention basins. Run-on is limited due to the flat topography of the site. There is to be no work in the rain and the waste will be covered as required. Run-off is managed by a channel to the wet detention pond. The basin is monitored under NPDES Permit number SW7060618.

The site plan includes descriptions of the various waste handling or storage activities and in certain cases (i.e. compost) the materials will be covered with tarps. The application does not include any activities under roof. However, provides additional management measures to minimize runoff from the waste activities include covering certain waste areas (i.e. non-clean mulch/engineered wood products) as well as ceasing operations during rain events.

3.2.1 <u>Erosion Control</u>

Erosion control measures have been taken within the drainage channels and at points of stormwater discharge. All site features should be inspected regularly for erosion damage and promptly repaired.

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3.2.2 Sedimentation Control

Stormwater run-off from the site is conveyed to an on-site sediment basin and/or trap. The basin and/or trap should be inspected regularly for sediment build-up or erosion damage. The basin and/or trap should be cleaned out when sediment fills the lower half of the basin.

3.2.3 Compost Area Run-Off Control

Particular care is required to ensure that surface water coming from the composting areas, e.g. having potential contact with the waste, is captured and carried to the leachate holding tank.

3.3 LEACHATE MANAGEMENT

The leachate management system for the proposed Composting Facility consists of a low permeability pad, collection trenches, leachate transmission piping and a leachate storage tank prior to pump and hauling to the East Lake Waste Water Treatment Plant located in Manteo, NC.

Intense rains can affect leachate managements systems. As applicable, compost facility staff shall maintain adequate temporary storage capacity in the leachate management systems. After such a rain event, inspection by personnel will be initiated and corrective measures taken to dispose of any additional leachate before the next rainfall. Refer to **Appendix A (Compost Operations Manual)** for more on compost leachate management.

3.3.1 Leachate Collection

Leachate from the compost area is collected in perimeter floor drains that drain to low end(s) of each area. The collected leachate drains via gravity HDPE pipes to a central leachate storage tank. The leachate is pumped directly to a truck for hauling to a local publicly owned treatment works (POTW), as necessary.

C&D waste is a dry material, therefore the potential for leachate in the waste sorting and waste/recycling storage area is minimal with these materials. To prevent leachate in those areas no work will be done in the rain.

3.3.2 Operation and Maintenance of Leachate Management Systems

Operation and maintenance of the leachate management system shall include routine inspections and maintenance to insure that accumulated solids are removed from the leachate storage tank and the system maintains a clear flow path into the leachate storage tank. The transfer station site manager or his designee will be responsible for following and documenting, as required, these activities.

3.3.3 Record Keeping

Accurate records of routine inspections and maintenance will be maintained at the facility in accordance with **Section 1.14**. Truck manifests for hauling of leachate will also be monitored.

3.4 VECTOR CONTROL

Control of insects, rodents, and birds will be accomplished by periodic cleaning of the facility. Spilled or wind-blown debris along the access road will be cleaned up daily and placed in the transfer truck. The transfer areas will be cleaned and swept daily. If vector control becomes a problem, additional measures will be taken to ensure the protection of human health.

3.5 ODOR CONTROL

Odorous or potentially odorous materials will be pushed into the transfer truck covered as soon as possible to avoid odor problems. Additionally, the transfer areas will be cleaned and swept daily. If odor control becomes a problem, additional measures will be taken to ensure odor control.

The facility composting area also has the potential for generating odor. For further information and actions to take to control odors that may arise due to the composting operations refer to **Appendix A (Compost Operations Manual)**.

3.6 DUST CONTROL

Dust related to waste hauler traffic on the access roads will be minimized by using a water truck or a sprinkler system to limit dust on the gravel portion of the road.

If weather conditions are unusually dry, dust generation can be a significant problem. Minimize dusting during extremely dry periods by:

- Screening compost product only in the early morning (i.e. before 10 AM) when dewfall and low wind speeds prevail;
- Make sure compost moisture content of windrows is at least 40% before turning windrows; if not, moisten windrows with water truck before turning.

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SECTION 4.0
QUALITY ASSURANCE AND REPORTING

4.1 OVERVIEW

This section reviews the overall quality assurance and reporting tasks required for the safe public distribution of the finished compost product. Solid waste compost products may not be distributed or marketed until proper testing and reporting has been completed followed by approval from the Division of Solid Waste Management. The information contained herein was prepared to provide facility personnel with methodology and reporting requirements to satisfy these requirements.

4.2 COMPOST DOCUMENTATION

An essential component of the composting process is documentation from the time the raw materials enter the gate to the last cubic yard of compost that is distributed to the public. The documentation is used to improve efficiency in the process, modify mix designs, and in troubleshooting of the process. The establishment of a reliable continuing record for proof of performance, thus justifying operational decisions, expenditures, and recommendations. Daily operational records also provide information useful in process adjustments required due to climatic or seasonal changes or other recurring problems of a specific nature. Accurate records also provide the basis for planning future expansion, planning future modifications, establishing and adjusting operating budgets, and providing evidence of performance in compliance with regulatory agencies.

The NC DENR Division of Waste Management requires record keeping on a continuing basis which allows them to determine the facility efficiency and the effectiveness of the treatment in achieving the desired standards. Personnel from the NC DENR Division of Waste Management will make periodic visits to the facility. During these inspections, a review of operational and other records may be requested. Records must be retained for five (5) years.

The following are points in the process where monitoring documentation are anticipated:

a. Incoming Weight Tickets & Manifests listing the quantity, type, and source of waste received.
b. Raw Materials Storage & Laboratory Testing identifying constituents in the raw materials used in compost.
c. Grinding and Chipping Logs (subcontracted or in-house)
d. Compost Windrow Mixing & Construction Logs identifying the quantity and type of waste used for composting.
e. Compost Windrow Monitoring Forms including daily operational records which include, at a minimum, temperature data, quantity of material processed, and the length of the composting period.
f. Compost Curing Storage Inventory & Monitoring
g. Compost Laboratory Testing identifying final composting parameters meet the requirements provided in **Table 4.1**

h. Compost Screening Logs (subcontracted or in-house)
i. Finished Compost Inventory identifying the quantity and type of compost produced by classification, compost removed for use or disposal by product classification.
j. Compost Classification Certification identifying information for public use such as compost grade, recommended uses, application rates, restrictions, and Total Nitrogen.

Many of the items provided above may be combined into a few monitoring forms. A discussion of each monitoring form is discussed briefly below. Anticipated monitoring forms have been provided in **Appendix B** of this manual.

4.3 WASTE SCREENING

Incoming waste screening procedures are discussed in **Section 2.4** of this manual.

4.4 RAW MATERIAL TESTING

The raw materials or feedstocks used in the composting process will require laboratory testing to determine proper mix designs. Testing should be conducted to determine compost parameters such as carbon to nitrogen ratio (C:N), moisture content, pH, and bulk density for anticipated mix designs. Testing should be conducted by a laboratory certified by the U.S. Composting Council with Tier II Compost Analysis Proficiency.

4.5 SAMPLING

Sample collection, preservation, and analysis shall assure valid and representative results. Data obtained from sampling and testing program is only as good as the sample taken. The operator should make every effort to perform sampling in a consistent routine, according to the following guidelines laid out in **Appendix A (Compost Operations Manual).**

The sample should be forwarded for testing in accordance with the requirements outlined in **Table 4.1** and at frequencies outlined in **Section 4.7.3.**

4.6 COMPOST MIX DESIGN

Compost mix designs will be developed in accordance with **Appendix A (Compost Operations Manual).**

4.7 COMPOST MONITORING

4.7.1 Compost Windrow Construction Log

A log is created each time a new compost windrow is placed through composting by the operator. This log sheet will contain information as to the day the pile was built, along with monitoring information every day until active composting is complete. Each compost windrow is labeled with a characteristics number for the year of operation and the compost windrow number such as 1-02, 2-02, etc . Each point along a windrow is also labeled with characteristic number to identify the sampling points along the rwo such as P1, P2, etc... Temperatures are measured daily at each point that has material until the requirements outlined in **Appendix A** are satisfied. Each windrow pile documents the date which the compost was first constructed, the date at which aeration begins, and when the compost process has completed.

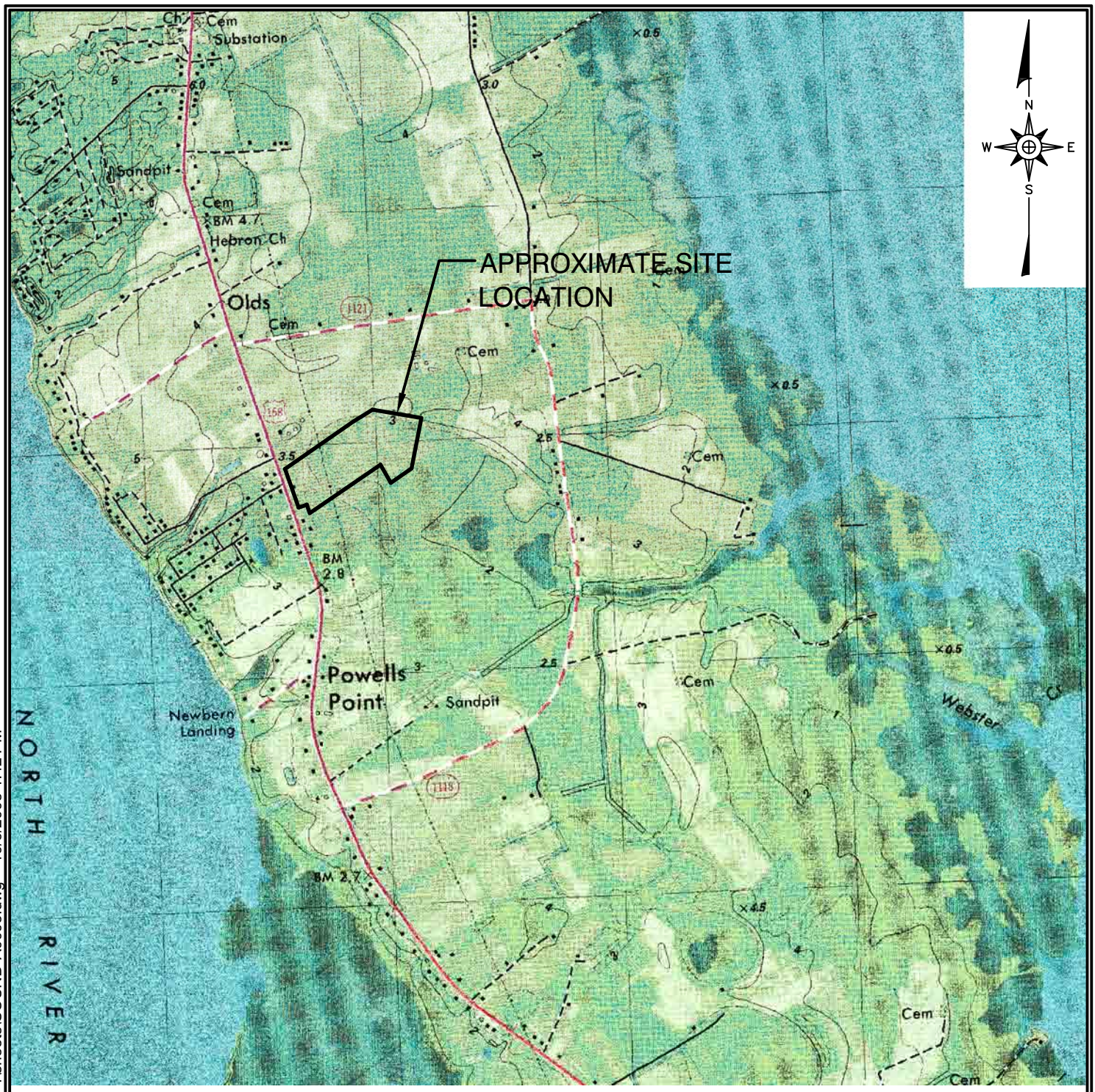
4.7.2 Monthly Monitoring Form

Each month a summary of daily material processing should be completed by the operator. This data is used to evaluate the overall operation and to summarize material inventory in active composting, in curing, and ready for public distribution. If any material does not meet the temperature requirements, fails pathogen or metal testing, or is unmarketable, it is identified on the monthly data sheet and appropriately segregated on the site. A sample Monitoring Form is included in **Appendix A** of this manual.

4.8 ANNUAL REPORTING

An annual report for the period of July 1 to June 30 shall be submitted to the Division by August 1st of each year. In addition, all pile and monthly data sheets, semi-annual product test data, and analytical results are submitted with the report.

Figures



REFERENCE

1. TOPOGRAPHY REFERENCES U.S.G.S. 7.5 MIN. QUADRANGLES "JARVISBURG, NC" DATED 1982.

SITE LOCATION MAP

RICHARDSON SMITH GARDNER & ASSOCIATES
14 N. Boylan Ave.
Raleigh, N.C. 27603
www.rsgengineers.com
ph: 919-828-0577
fax: 919-828-3899

SCALE:	DRAWN BY:	CHECKED BY:	DATE:	PROJECT NO.	FIGURE NO.	FILE NAME
AS SHOWN	J.A.L.		Oct. 2008	SOUND 08-1	1	SOUND-A0003

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NOTES

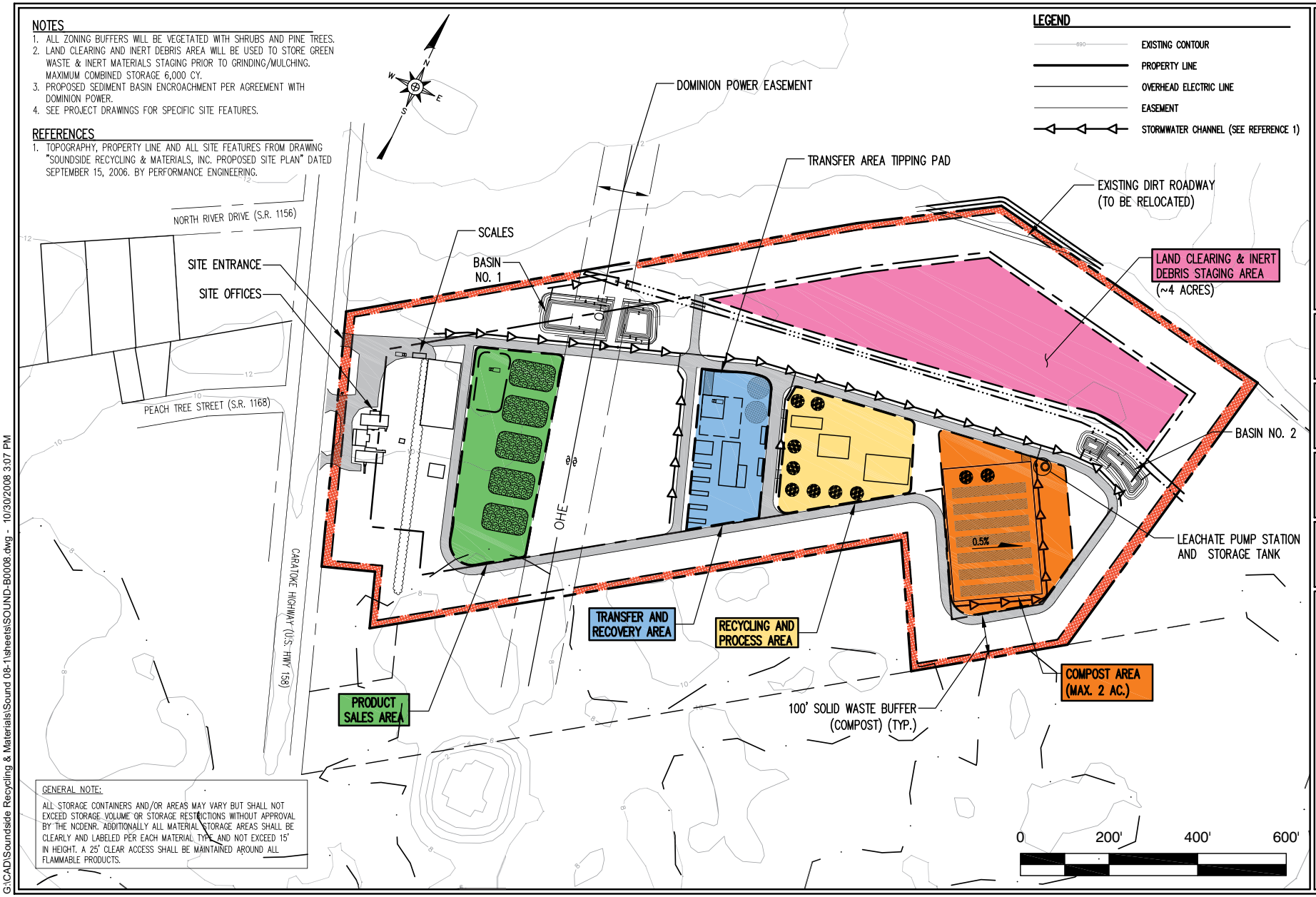
1. ALL ZONING BUFFERS WILL BE VEGETATED WITH SHRUBS AND PINE TREES.
2. LAND CLEARING AND INERT DEBRIS AREA WILL BE USED TO STORE GREEN WASTE & INERT MATERIALS STAGING PRIOR TO GRINDING/MULCHING. MAXIMUM COMBINED STORAGE 6,000 CY.
3. PROPOSED SEDIMENT BASIN ENCROACHMENT PER AGREEMENT WITH DOMINION POWER.
4. SEE PROJECT DRAWINGS FOR SPECIFIC SITE FEATURES.

REFERENCES

1. TOPOGRAPHY, PROPERTY LINE AND ALL SITE FEATURES FROM DRAWING "SOUNDSIDE RECYCLING & MATERIALS, INC. PROPOSED SITE PLAN" DATED SEPTEMBER 15, 2006. BY PERFORMANCE ENGINEERING.

LEGEND

- EXISTING CONTOUR
- PROPERTY LINE
- OVERHEAD ELECTRIC LINE
- EASEMENT
- STORMWATER CHANNEL (SEE REFERENCE 1)



GENERAL NOTE:

ALL STORAGE CONTAINERS AND/OR AREAS MAY VARY BUT SHALL NOT EXCEED STORAGE VOLUME OR STORAGE RESTRICTIONS WITHOUT APPROVAL BY THE NCDENR. ADDITIONALLY ALL MATERIAL STORAGE AREAS SHALL BE CLEARLY AND LABELED PER EACH MATERIAL TYPE AND NOT EXCEED 15' IN HEIGHT. A 25' CLEAR ACCESS SHALL BE MAINTAINED AROUND ALL FLAMMABLE PRODUCTS.

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FIGURE NO.	2
FILE NAME	SOUND-B0008
SCALE:	AS SHOWN
PROJECT NO.	SOUND 08-1
CHECKED BY:	
DRAWN BY:	W.R.B.
DATE:	OCT. 2008

TITLE: GENERAL SITE PLAN

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Appendix A

The composting portion of this application is not approved.
D. Wilson
Feb. 2011

Soundside Recycling, Inc.

Solid Waste Composting Facility

Operations Plan

October 2008

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SECTION 1
WASTE RECEIPT AND INSPECTIONS

WASTES STORAGE AND PROCESSING

All incoming waste will be received at the facility's composting area. Trucks will be directed to unload on the concrete compost pad, or, if liquids such as grease trap wastes, into the dewatering/decanting system. Once unloaded, wastes will be moved by front-end loader (FEL) and stored in designated areas for processing. Processing will consist of grinding all solid incoming materials with an on-site horizontal grinder.

COMPOST RECIPE

The compost recipe to be used (initially) at the Soundside Composting Facility is shown in Table 1. This is a weekly recipe, based on the amount of seafood processing waste Soundside will be taking in. Due to the low moisture content of the EWP, the site operator will add water to bring the mix to the optimum 50% – 55% moisture content.

The EWP is generated by Soundside's construction recycling activities and consists of a combination of plywood (approx. 45% of the total), oriented strand board (approx. 52% of the total), and laminated veneer lumber (approximately 3% of the total). These are generally high-carbon materials, although EWP made with urea-formaldehyde glue resins can have lower C:N ratios (the other type of widely-used EWP glue resin is phenol-formaldehyde, which does not depress C:N ratios). Soundside has been demonstrating the successful composting of these materials since June 2007 under a Solid Waste Composting Demonstration Permit issued by the NC DENR Division of Waste Management.

Table 1
Weekly Compost Recipe

INGREDIENTS	Poultry Litter	Seafood Waste	Grease Trap Wastes	Plywood	OSB	LVL	TOTAL MIX
C (% AS IS)	45.5	29.9	47.1	50.4	50	48.9	
N (% AS IS)	3.9	10.1	3.2	0.2	0.1	0.3	
MOISTURE%	51.1	70.5	91.8	11	15	14.7	
UNITS IN MIX BY WGT (T)	5	5	15	20	16	4	
UNITS IN MIX BY WGT (LB)	10,000	10,000	30,000	40,000	32,000	8,000	130,000
UNITS IN MIX BY VOL (CY)	6	15	19	80	64	16	200
DENSITY (LBS/CY)	1700	667	1600	500	500	500	
RELATIVE DENSITY	1.00	0.39	0.94	0.29	0.29	0.29	
TOTAL POUNDS	10000.00	10000.00	30000.00	40000.00	32000.00	8000.00	
POUNDS OF CARBON	4,550	2,990	14,130	20,160	16,000	3,912	61,742
POUNDS OF NITROGEN	390	1,010	954	80	32	24	2,490
C:N RATIO	11.67	2.96	14.81	252.00	500.00	163.00	**24.80**
						TARGET	**20 TO 30**
POUNDS OF MOISTURE	5,110	7,050	27,540	4,400	4,800	1,176	50,076
NUMBER OF UNITS	10,000	10,000	30,000	40,000	32,000	8,000	130,000
PERCENT MOISTURE							**38.52**
						TARGET	**50 TO 65%**

Note: Additional water will be needed depending on feedstocks composted on any given day

This recipe will be adjusted daily based on incoming waste materials.

SECTION 2
WINDROW MANAGEMENT

MIXING

Waste materials will be mixed using a mechanical mixer such as a mulch colorizer or an agricultural feed mixer. Mixed materials will be formed into windrows with a rubber-tired front end loader (FEL).

WINDROW FORMATION AND TURNING

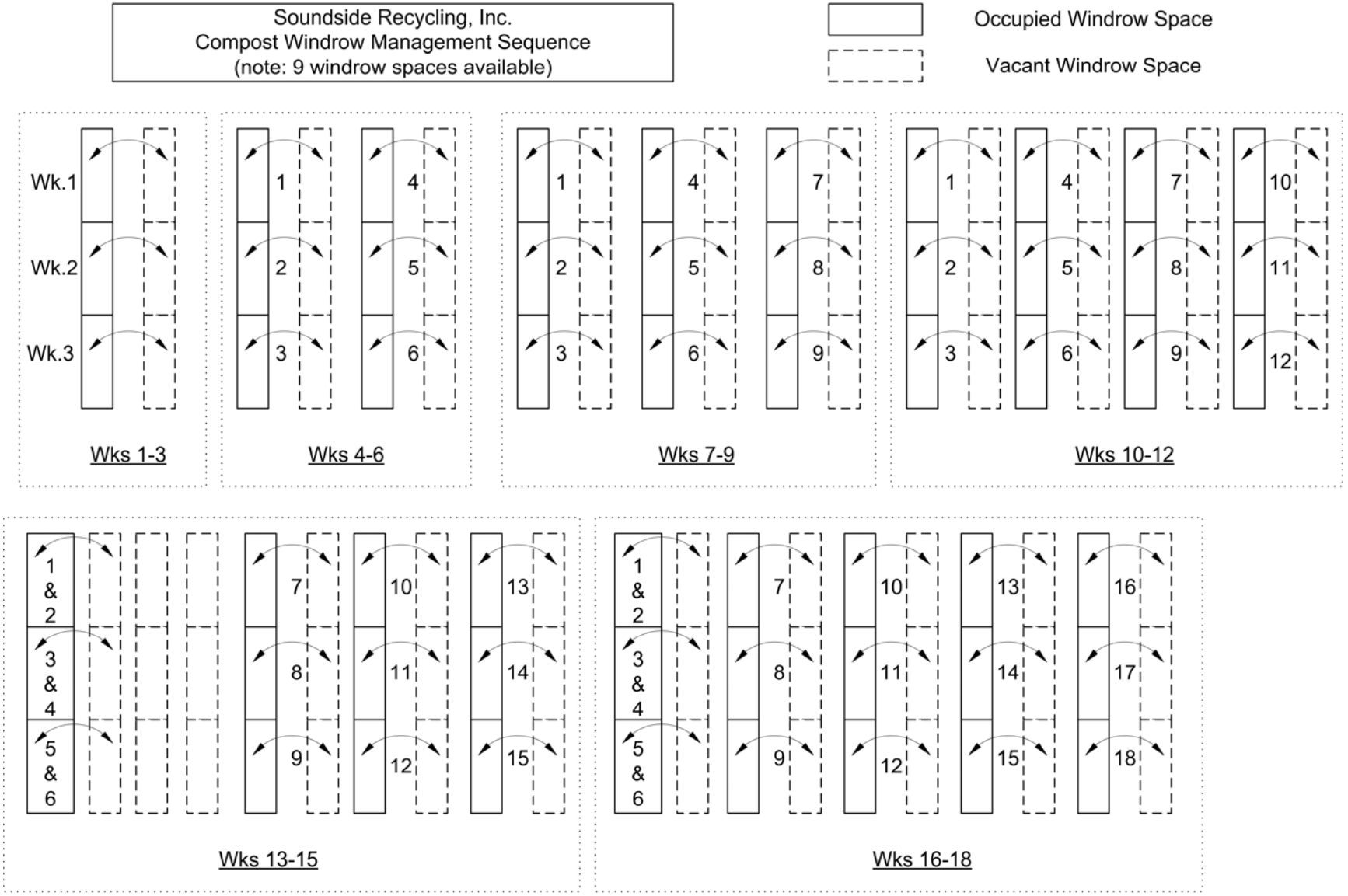
As the available space for composting is limited and windrow turning is to be done with a FEL, the site only has capacity to handle approximately 65 tons per week. Windrows will be formed with the FEL to be eight (8) feet high by 22 feet wide. Available pad space limits windrow length to about 138 feet to allow enough room at the windrow ends for equipment turning and to standardize windrow turning and management. Based on the incoming volumes, each day the operator will mix up the wastes and form approximately 1/3 of the total windrow (about 46 linear feet). Windrows will be "flipped" or mixed using the "bucket-blending" technique with a FEL and the re-mixed material will be placed in a designated area adjacent to the windrow. Figure 1 illustrates this windrow management technique. Windrows will be combined during the 24-week (6-month) composting process to take advantage of volumetric shrinkage and to ensure adequate pad space for incoming materials.

After the initial mixing/turning step, windrows will remain undisturbed for 3-5 days to allow temperatures and microbial activity to increase. Temperatures will be monitored daily for the first two weeks (see Process Monitoring). Once temperatures have reached 131° F., the windrows will be turned. Windrows will be turned to meet the time-temperature-windrow turning definition under 40 CFR Part 503, "Standards for the Use and Disposal of Sewage Sludge", which require a windrow be turned five (5) times in a 15-day period once 131° F. has been reached and maintained. This Federal standard is called "Process to Further Reduce Pathogens" (PFRP) and is a widely-adopted practice for composting potential pathogen-containing feedstocks (biosolids, manures, food wastes). Compliance with the 40 CFR 503 standards also ensures compliance with the Vector Attraction Reduction component of those standards (in the case of composting, temperatures in an aerobic process that exceed 40° C. (104° F.) for fourteen (14) days or longer).

WINDROW IRRIGATION

Composting is a process that operates most efficiently when mixed compostables have a moisture content of between 50-55%. Depending on climatic conditions, the feedstocks mix may have insufficient moisture when initially ground up and formed into windrows. Also, moisture is evaporated from a windrow by the microbial activity of the composting process and this evaporation is enhanced by the turning agitation of the turner. Water is often added to composting windrows at initial formation and/or periodically during the composting process to adjust moisture content.

If moisture monitoring shows the windrows to be too dry, a water truck will be used to spray water out over the windrows prior to turning with the FEL. This allows the FEL to mix the wetted surface materials into the windrow during turning. The water truck will be filled by a pump in the storm water pond (which may be augmented by a drilled well to ensure adequate water is in the pond).



Note: Wks 19 – 21 – combine 7 & 8, 9 & 10, and 11 &12 into one windrow, Wks 19 – 21 into one windrow
Wks 22 – 24 - same as Wks 16 – 18 but with two combined windrows, Wks. 22 – 24 into one windrow
After Week 24 (six months) restart as in Weeks 1 - 3

Figure 1

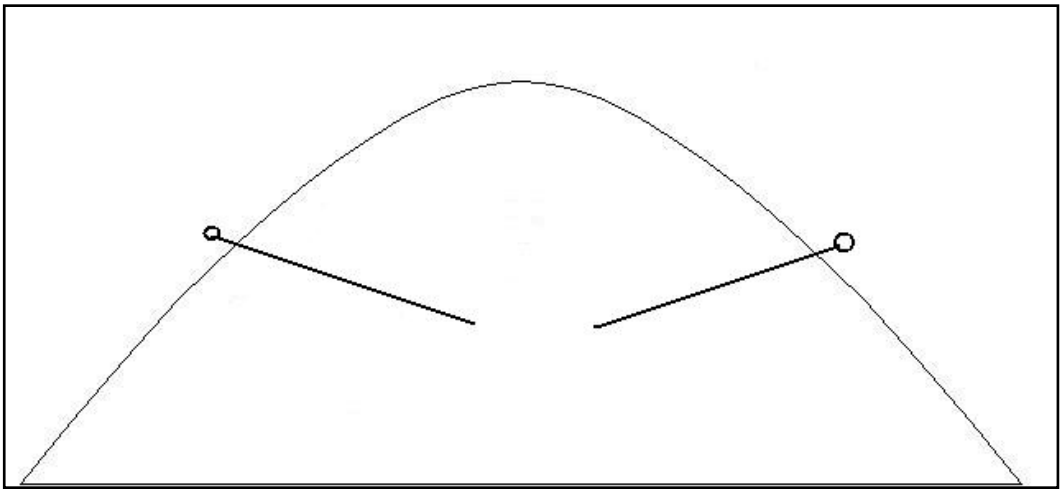
PROCESS MONITORING

The main process control parameters to monitor are temperature, moisture content and oxygen content (or its surrogate, carbon dioxide content).

Temperature

Temperature will be monitored daily with a 36” dial-type thermometer. Locations where temperatures will be monitored are shown in Figure 2.

Figure 2
Windrow Temperature Monitoring Locations



Temperatures will be recorded on a permanent basis, using a logbook form similar to the one in Table 2.

Table 2
Windrow Temperature Log

Windrow # _____ Date _____ Weather _____

Distance (ft)	Temp. ° F. (left)	Temp. ° F. (right)
0		
25		
50		
75		
100		
125		
150		

Moisture Content

Moisture content of a compost mix is important because the microorganisms responsible for biodegradation of the waste need water to survive and grow. The desired moisture content of a compost mix is between 50% and 60%. Moisture will be monitored with two methods; the "squeeze" test in the field, which will be done daily, and the microwave oven method in the office, which will be done weekly.

The procedure for a squeeze test is:

- Mix moisture percent can be approximated by squeezing a handful of material as follows:
  - Reach into the pile and take a handful of material
  - Squeeze the handful of material firmly
  - Release your grip and inspect the material you squeezed in your hand.
- Interpretation of results:
  - If the material you squeezed is crumbly and doesn't stick together, and your hand is dry, the material is about 40% moisture or less.
  - If the material you squeezed sticks together, and your hand is moist, the material is around 50% moisture
  - If the material you squeezed sticks together and drips, and your hand is wet and dripping, the material is around 60% moisture or more.
- With practice you can distinguish 55% moisture, from 50% and 60% moisture.

A microwave oven test is a more precise methodology. The oven-test procedure is:

1. **Weight Test**
   a. Equipment Needed:
      1) Weigh scale (triple-beam or laboratory scale)
      2) Microwave oven
      3) Paper disposable plates
   b. Weigh paper plate and adjust scale to tare out at zero.
   c. Weigh out 100 grams (g) of sample.
   d. Place sample on a paper disposable plate.
      1) Put sample on plate in microwave oven. Turn power level down to 50%. Cook sample in microwave for four (4) minutes.
   e. Take sample and weigh sample (and plate). Record weight.
   f. Place dish back in microwave for 2 more minutes of heating.
   g. Reweigh the sample.
   h. Repeat Steps 6 and 7 until the weight of the sample and the plate stops changing.
   i. Subtract final weight from 100 (the weight of the original sample). This is the weight of the water evaporated off in the microwave.
   j. Multiply by 100 to get moisture content percentage.
   k. <u>Example</u>: After following the procedures above, the final weight is 43.0 grams (g).

Weight of original sample	=	100.0 g
Weight after drying	(-)	43.0 g
Weight of water evaporated	=	57.0 g
Moisture percentage:		

$$\frac{57.0\ g}{100.0\ g} = 0.57 \times 100 = 57.0\%$$

2. Record all moisture monitoring results (either by squeeze test or by weight test) on the Daily Operations Log.

O_2 / CO_2 Content

During normal composting operations, Soundside Recycling will ensure adequate oxygen content in piles by maintaining adequate structural porosity in the piles. This will be attained by ensuring a consistent grinding of incoming solid waste with the horizontal grinder using a 4" x 5" screen, and by combining volumetrically-reduced composting and curing windrows to "fluff" them up.

The site operator may elect to use a portable oxygen monitor to ensure composting piles stay above 5% oxygen at all times.

DUST AND ODOR CONTROL

The following procedures will be used by Soundside staff to control potential dust and odor problems:

Dust

1. If weather conditions are unusually dry, dust generation can be a significant problem. Minimize dusting during extremely dry periods by:
    a. Screening product only in the early morning (i.e. before 10 AM) when dewfall and low wind speeds prevail
    b. Use the water truck to water down the roadways on site
    c. Make sure moisture content of windrows is at least 40% before turning windrows; if not, moisten windrows with water truck before turning.

Odors

1. Composting is not odor-free. Operations staff will be trained to learn to distinguish between malodors (such at rotten eggs or decaying fish smells) that signal something is wrong with the windrow, and normal compost odor, which is a rich, earthy smell. Training will be accomplished by taking staff to well-run composting operations elsewhere, where they can learn to distinguish the "earthy" smell of a good composting process, and by taking them to locations where the anaerobic decomposition of solid wastes creates malodors, such as a sanitary landfill or transfer station, or a wastewater treatment plant.
2. If staff detects a malodor, the monitoring records for that windrow will be reviewed to be sure moisture, temperature and oxygen levels are appropriate. If not, the General Manager will develop a corrective action plan. That plan might involve one or more of the following steps:
    a. Turning the windrow (depending on weather conditions)
    b. Covering the windrow with 3-4" of finished compost
    c. Tearing down the windrow and remixing the contents with fresh incoming materials and build a new windrow.

The composting portion of this application is not approved.
D. Wilson
Feb. 2011

PRODUCT STABILITY AND TESTING

Proper compost product sampling and testing is important to ensure Soundside Recycling complies with the applicable regulations of the North Carolina Department of Environment and Natural Resources (NCDENR) and to assure its customers they are manufacturing a high-quality product.

Sampling Procedures

1. Collect samples from areas of the compost pile that are representative of the general appearance, and avoid collecting atypically moist samples (> 60% moisture, wet basis). If balls form during the process of blending and mixing of point-samples, the compost sample is too wet. Excessively moist compost will cause unreliable physical and biological evaluation.
2. A representative compost sample must be collected from appropriate sampling locations and consist of no less than 5 point-samples. Sampling locations along the perimeter of the compost pile where compost point-samples will be extracted and the vertical distances from the ground or composting pad surface should be determined at random, and should be representative of the compost In the windrow.
3. Mix all point-samples together in a 5-gal plastic bucket and use that mix for subsequent testing.

Compost Stability Testing

1. After 30 days in a windrow, compost should be tested with a Solvita® test to see if it meets the Soundside Recycling compost stability requirement. Solvita® test kits are available from www.solvita.com.
2. Compost stability and maturity are important considerations for knowing when compost is ready to be used as a soil amendment. Stability refers to the degradation of the organic wastes used to make compost. Stable compost means the wastes have decomposed and no longer resemble the original material used in the mix.
3. Solvita® is based on a gel-colorimetry technology in which respiration gases from composts are captured and accurately indicated in a color-coded system calibrated to a wide range of known conditions. The test measures carbon dioxide (CO_2) respiration and ammonia (NH_3) volatilization.
4. Use the following procedure to test for stability:
    a. Fill the Solvita® jar to the indicated line with compost.
    b. Leave the top of the jar off and allow the sample to equilibrate for one (1) hour.
    c. Put the marked colorimetric paddles (one for CO_2 and one for NH_3) in the jar at the designated locations.
    d. Put the lid on the jar and set aside (out of direct sunlight).
    e. After 4 hours, measure the color of the paddles against the color chart provided.
    f. Record the results of the test on the jar lid in the indicated spaces.

Compost Product Testing

1. All compost samples targeted for general testing should be chilled immediately upon collection and preparation. Chilling samples is needed to make sure that any tests for

biologicals (i.e. coliform bacteria) are accurate, as samples that are not chilled may give false bacteria count readings.

2. When plastic containers are acceptable, use double Ziploc®-type 4-8 L (1-2 gal) bags marked on the exterior with a marking pen with insoluble ink, and placed with several cool-packs in a large polystyrene cooler or similar insulated container.
3. Ship the samples to the laboratory for delivery within 24 h or less. Request that the laboratory staff store samples at 4°C when delays in lab preparation are anticipated.
4. Compost samples will be tested for the parameters specified in 15A NCAC 13B.1407 every six (6) months using the procedures specified in 15A NCAC 13B.1408.

RECORDKEEPING

All pertinent process information will be collected on the Daily Compost Process Control Sheet. Copies of all records will be kept in the on-site office for a period of three years.. These records will include: temperature readings, moisture determinations, windrow watering activities, ambient weather, equipment repair and maintenance issues and other pertinent operational details.

Other records that will be maintained at the Soundside Recycling Composting Facility include:

- Waste Receipts
  - Records of incoming volumes and/or tonnages
  - Unauthorized solid waste received (source identification, date of receipt, type of waste, date of disposal, and disposal method and location)
- Self-Inspection Reports
  - Date & time of the inspection
  - Name of inspector
  - Description of inspection (including specific equipment and structures inspected)
  - Observations recorded
  - Date and nature of any remedial actions taken
- All monitoring information
  - Date, place and time of sampling or measurements
  - Name of individual conducting monitoring
  - Date, methodology and results of any analyses

FIREFIGHTING

Composting facilities can be sources of fires due to the combustible nature of some of the feedstocks in the composting process. Fire prevention is a far more effective approach to fire management than fire fighting, but, in the event a fire does occur, all employees shall follow these procedures.

Fire prevention principles that are always in effect at Soundside Recycling include: careful and frequent temperature monitoring of compost piles; ensuring adequate moisture in compost piles; detecting and repairing any equipment fuel leaks immediately; and careful management and isolation of combustible liquids.

There are three types of fires possible at the Soundside composting facility: a compost fire, a diesel-fuel fire on a piece of equipment, or a structural fire (i.e. the office, the repair garage, the storage shed, etc.). Each fire is different and requires a different approach to fight.

Compost Fires

Compost fires are usually caused by spontaneous combustion of the materials in the compost fire, but can also be caused by a carelessly-tossed cigarette, or by lightning. Compost fires are smoldering ember-type fires that can often be detected in their early stages by careful temperature monitoring. The following procedure will be used for compost fires:

- If routine temperature monitoring shows a location in a windrow where temperatures are greater than 160° F., employees will flag the location of the reading (with a landscape flag or a stick with a rag tied to it) and notify the General Manager immediately.
- If smoke is detected rising from a vent in the compost, the location will be marked and the General Manager will be notified immediately.
- To fight a compost fire, staff will carefully excavate the area around the marked flag or stick with the bucket of the loader and spread the compost out on the ground in a thin layer (no more than 12" thick) by back-dragging the material with the back edge of a loader bucket. Staff will be made aware that exposing the inside of a compost pile to air while it is burning may spread the fire quickly.
- Another employee will be standing by with a water hose and will thoroughly water down the embers in the compost. Staff will be trained that compost fires can reignite and spread so watering the whole area thoroughly is best.
- If the fire spreads, staff will call 911 to request assistance from the Lower Currituck Volunteer Fire Department

Prior to facility start-up, Soundside management will meet with representatives of the Lower Currituck VFD to discuss possible fire management needs and to ensure that VFD personnel are familiar with the methods of fighting a compost fire.

Diesel Fires

Diesel fuel and other combustible liquids leaking from a piece of equipment can catch fire, especially in the presence of fine dusts created by the composting operation which can be ignited by stray sparks. These types of fires can only be put out with a Class B fire extinguisher. In the event of a diesel (or combustible liquids) fire, Soundside personnel will immediately call 911. Staff will be trained to use only an approved Class B fire extinguisher to fight the fire, aiming the extinguisher at the base of the fire. When the Fire Department arrives, they will take over fire fighting.

Structure Fire

In the event of a fire involving one of the structures at Soundside Recycling Facility, staff will be trained to immediately call 911.

SECTION 3
EQUIPMENT MANAGEMENT

The following procedures will be used by Soundside staff regarding equipment management:

DAILY START-UP AND SHUTDOWN PROCEDURES

1. Inspect each piece of equipment to be sure all safety features are operational and that the equipment has fuel and lubricating oil. Immediately repair anything that is not operating properly. Add oil and/or fuel as needed.

2. Inspect the underside of each piece and the ground beneath it to see if there is leakage of fuel or lubricating oil. If so, immediately move the vehicle to the repair shop and clean up the spilled fluids with sawdust or kitty litter. Dispose of the fluid-contaminated clean-up material in a plastic bag in the trash.

3. After start-up, allow all diesel engines to reach normal operating temperature before engaging equipment for work.

4. When shutting down a diesel engine, always allow the engine to idle at rest for at least five (5) minutes to avoid damage to the engine from a hot shut-down.

5. Carefully observe all equipment operations and in the case of an apparent malfunction, notify the General Manager immediately.

SOURCES FOR BACKUP EQUIPMENT

The minimum amount of equipment needed to process incoming feedstocks is two (2) operable front-end loaders. If two working loaders are not available, notify the front office immediately so they can arrange to stop deliveries of feedstocks. In the event of equipment malfunction, use these sources for backup equipment:

1. Front End Loaders (FEL) – contact **WHO?** and arrange short-term FEL loader rental while equipment is being serviced.

2. Compost Screening Equipment – contact **WHO?** and arrange short-term trommel screen rental while equipment is being serviced.

3. Process Monitoring – thermometers or other monitors: order another unit from Fisher-Scientific on 24-hour rush shipping

SECTION 4
PRODUCT MANAGEMENT

PRODUCT SCREENING

Cured compost that has passed the Soundside Recycling stability testing criteria (a Solvita test reading of “6” or higher) is considered a market-ready product and will be moved from the curing area to the product preparation area.

Product preparation will consist of screening the compost using a trommel screen equipped with a 3/8” or ¾” screen, depending on final product desired. Figure 3 illustrates a typical trommel screen.

Figure 3
Trommel Screen

Trommel screens generally comprise a slightly tilting cylindrical basket or mesh drum that rotates. Material is fed into one end and the rotating action tumbles it through. Material falling through the mesh is the “unders”, while those remaining in the drum- the “overs” - are eventually conveyed out of the open end. Various design features are added to the simple design, for example a screw auger to move material down the drum (this encourages tumbling as opposed to the lift and dropping characterized by horizontal bars). Other more recent modifications to screen design include quick change trommel drums that can simply be lifted on and off the mechanism, allowing for screen sizes to be readily modified. Trommel screens can operate over a range of moisture contents, however optimum removal is achieved when moisture contents are 40-45%; i.e. not too wet to clog or ball, and not too dry for dust to be an issue. However high moisture contents slow the throughput rate and reduce separation effectiveness in both. Trommels are quite efficient at removing all but the smallest pieces of contamination, both pre and post the composting process.

Both fractions produced by the screening system will be sold by Soundside.

PRODUCT STORAGE

The “unders” from the screening process will be sold as screened compost, or used in formulation with sands and soils to make specialty soil products (such as turfgrass growth media, green roof growth media, and bioretention pond substrate soils). The “overs” from the screening process will be sold as an “enhanced mulch”, and a portion of the “overs” may be recycled back to the front of the composting facility to be used as an inoculant in new windrows.

Products will be stored in the Landscape Supply and Storage Area. The storage areas will be sized to handle six (6) months’ inventory. Storage pile heights will be limited to eight (8) feet so as to minimize compaction issues at the base of the piles.

SOILS BLENDING AND MANAGEMENT

Soundside may decide to make specialty soil blends from a mixture of compost and sand, compost and fill dirt, or a combination of all three. Sands will be purchased from commercial sources of dredged or quarried sands that are sold to the general public. Fill dirt will be sourced from clean soil sites.

Appendix B

SOUNDSIDE
RECYCLING & MATERIALS, INC.

Jarvisburg, NC
(252) 491-8666

WASTE SCREENING FORM

Day / Date: _____ Time Weighed in: _____
Truck Owner: _____ Driver Name: _____
Truck Type: _____ Vehicle ID / Tag No: _____
Weight _____ Tare: _____
Waste Generator / Source: _____

Reason Load Inspected: Random Inspection _____ Staff Initials _____
Detained at Scales _____ Staff Initials _____
Detained by Operating Staff _____ Staff Initials _____

Inspection Location: _____

Approved Waste Determination Form Present? Yes _____ No _____ N/A _____

Description of Load: _____
_____
_____

Load Accepted (signature) _____ Date _____
Load Not Accepted (signature) _____ Date _____

Reason Load Not Accepted (complete only if load not accepted)

Description of Suspicious Contents: Color _____ Haz. Waste Markings _____
Texture _____ _____
Drums Present _____ Smell _____
Est. Cu. Yds. Present in Load _____
Est. Tons Present in Load _____

Granville County Emergency Management Contacted? Yes _____ No _____

Company or Authority Contacted? _____
Hazardous Materials Present: _____
_____

Hauler Notified (if waste not accepted) Phone: Time Contacted:
Other Observations: _____
_____

Final Disposition
Signed _____ Date _____
Waste Screening Inspector or Environmental Officer

Attach related correspondence to this form.
File completed form in Operating Record.

Appendix C

NC DEPARTMENT OF HEALTH AND HUMAN SERVICES
DIVISION OF PUBLIC HEALTH
HEALTH HAZARDS CONTROL UNIT

GUIDELINES FOR HANDLING ASBESTOS-CONTAINING BUILDING MATERIALS AT C & D RECYCLING CENTERS IN NORTH CAROLINA

Asbestos is the name given to a naturally occurring group of minerals composed of tiny, easily inhaled fibers. In the past, asbestos was added to a variety of building materials to provide strength, heat insulation, and fire resistance. Breathing airborne asbestos fibers can lead to an increased risk of serious diseases, including asbestosis, lung cancer, and mesothelioma.

Recycling of asbestos-containing building materials may result in asbestos fibers becoming airborne. For this reason, demolition or construction debris that contains asbestos may not be recycled and must be disposed of in a landfill permitted to accept asbestos-containing materials. By prohibiting asbestos-containing materials from entering the waste streams at recycling centers, exposure to facility employees, downstream recyclers, and the general public who may use the recycled products, can be eliminated.

Guidelines for assuring that asbestos-containing materials do not enter a recycling center's waste streams are discussed below:

1) An On-site Representative, who has successfully completed an approved asbestos Contractor/Supervisor training class, should be present at the facility during all hours of operation.

The National Emission Standards for Hazardous Air Pollutants (NESHAP), specifically 40 CFR 61.145(c)(8), requires that an On-site Representative must be present on any site where regulated asbestos-containing material (RACM) is handled or disturbed. The On-Site Representative—usually a foreman, management-level person, or other authorized representative--must be trained in the provisions of the NESHAP and the means of complying with them. Asbestos Abatement Contractor/Supervisor training, including annual refresher training, meets the training requirements specified in the NESHAP regulation for the On-site Representative.

2) Water should be immediately available throughout the recycling facility, as necessary, to eliminate dust production and migration. There should be a provision for mister units along any shakers, conveyers, or picking lines to provide dust control. In some cases, sprinklers may be installed along the tops of earthen berms surrounding a recycling yard to provide dust control.

3) Loads of mixed waste arriving at the facility should be examined by personnel trained to identify suspect asbestos-containing materials. Any loads which include recognizable suspect asbestos-containing material should not be processed or recycled. Even if wetted, these materials should not be crushed, shredded, or otherwise processed prior to transport for disposal.

4) Suspect materials entering the facility should be separated, wetted and covered until it can be determined whether they are asbestos containing. Sampling of any suspect materials that arrive at the facility must be conducted by a North Carolina accredited asbestos Inspector.

If asbestos-containing materials are found to have entered the waste stream, the area around these materials should be properly marked and the materials wetted and covered. North Carolina accredited personnel will be required to clean up the contaminated site in accordance with all applicable regulations and transport the asbestos-containing waste materials to a properly permitted landfill.

For further information on disposal facilities in North Carolina, contact the NC Department of Environment and Natural Resources, Division of Waste Management, Solid Waste Section at 919-508-8400.

5) The posted and advertised list of unacceptable items for recycling should include any asbestos or asbestos-containing materials.

Asbestos has been used in more than 3,000 building products and can be found in homes, public, commercial, and industrial facilities. Building products containing asbestos include, but are not limited to, the following:

insulation on boilers, tanks, steam pipes, water pipes and ducts;
cement water pipes;
cementitious siding or roofing shingles;
ceiling tile (all forms);
asphalt shingles and asphalt and felt roofing applications;
wallboard (sheetrock) and mud joint compound;
sprayed-on or troweled-on surfacing materials on walls or ceilings;
insulation on/in walls, ceilings, decks, or beams (including vermiculite);
floor tiles and sheet vinyl floor coverings;
and many more.

Many of these products are imported into the United States and may be currently available for sale.

For additional information on the requirements for handling asbestos-containing materials, including copies of applicable regulations, please contact the Health Hazards Control Unit at 919-707-5950.

3/20/01; revised: 12/31/03, 8/20/07; 1/11/08

Attachment F

Erosion and Sediment Control Plan

Don Misenheimer

From: Stacey Smith [stacey@rsgengineers.com]
Sent: Wednesday, December 15, 2010 2:45 PM
To: 'Don Misenheimer'; 'Lindsay Quant'
Subject: FW: Soundside Recycling E&SC Plan #Curri-2006-028

Incorporate this into our response.

sas

- -

Stacey A. Smith, P.E.

President, Senior Engineer

Richardson Smith Gardner & Associates, Inc.

Raleigh, North Carolina

www.rsgengineers.com

--

From: Mcclain, Pat [mailto:pat.mcclain@ncdenr.gov]
Sent: Wednesday, December 15, 2010 2:41 PM
To: stacey@rsgengineers.com
Subject: RE: Soundside Recycling E&SC Plan #Curri-2006-028

That is correct. The expiration date of all development permits was legislative suspended/extended until 12/31/2011. This Approval will expire 3 years following that date unless it is again legislatively extended.

Patrick McClain, PE
Land Quality Regional Engineer - Washington Region
NC Dept. of Environment and Natural Resources
943 Washington Square Mall
Washington, NC 27889
Phone: 252-946-6481, Fax: 252-975-3716

****

E-mail correspondence to and from this address may be subject to the North Carolina Public Records Laws and may be disclosed to third parties.

Lindsay Quant

From: Stacey Smith [stacey@rsgengineers.com]
Sent: Wednesday, December 15, 2010 2:15 PM
To: pat.mcclain@ncdenr.gov
Cc: 'Don Misenheimer'; 'Lindsay Quant'
Subject: Soundside Recycling E&SC Plan #Curri-2006-028

Pat,

Per our telephone conversation, the above referenced plan does not expire until December 31, 2014.
Please confirm.

Thank you for your assistance.

sas

- -

Stacey A. Smith, P.E.

President, Senior Engineer

Richardson Smith Gardner & Associates, Inc.

Raleigh, North Carolina

www.rsgengineers.com

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State of North Carolina

Department of Environment and Natural Resources
Washington Regional Office

Michael F. Easley, Governor | William G. Ross, Jr., Secretary

DIVISION OF LAND RESOURCES
LAND QUALITY SECTION
July 11, 2006

LETTER OF APPROVAL

Soundside Recycling and Material, Inc.
ATTN: Ms. Kimberly Newbern, President
7565 Carotoke Highway
Jarvisburg, North Carolina 27947

RE: Erosion and Sedimentation Control Plan No. Curri-2006-028
Soundside Recycling
US 168, Jarvisburg - Currituck County
River Basin: Pasquotank
Date Received: June 14, 2006
Responsible Party: Soundside Recycling and Material, Inc.

Dear Ms. Newbern:

This office has completed its review of the erosion and sedimentation control plan for the referenced 21.2 acre disturbance. Based on the information provided, we have determined the submitted plan for the grading associated with relocating the business office and expanding the storage yard, if properly implemented and responsibly maintained, should meet the intent and minimum requirements of the Act. We, therefore, issue this LETTER OF APPROVAL.

In 1973, the Sedimentation Pollution Control Act (copy available upon request) was enacted. It established a performance oriented program with the OBJECTIVE of PREVENTING SEDIMENT DAMAGE to adjoining properties and/or natural resources resulting from land disturbing activities through the use of reasonable and appropriate Best Land Management Practices, based on the approved plan and changing site conditions, during the course of the project. **AS THE DECLARED RESPONSIBLE PARTY, YOUR LEGAL RESPONSIBILITY** is to understand the Act and comply with the following minimum requirements of the Act and the above listed modifications (if any):

-- *an erosion and sedimentation control plan is only valid for 3 years following the date of initial approval, if no land-disturbing activity has been undertaken*;

943 Washington Square Mall, Washington, North Carolina 27889 Telephone 252-946-6481, FAX 252-975-3716

-- *the LATEST APPROVED soil erosion and sediment control plan will be used during inspection to determine compliance and a copy of the plan must be on file at the job site;*

-- *erosion and sediment control measures or devices are to be installed to safely withstand the runoff resulting from a 10 year storm event - 6.5 - 7 inches in 24 hours or at the rate of 6.5 - 7 inches in 1 hour.*

-- *unless the off-site borrow and/or disposal sites are identified in the erosion control plan, no earthen material is to be brought on or removed from the project site;*

-- *except in the case of a storm related emergency,* ***a revised erosion and sedimentation control plan must be submitted to and approved by this office prior to initiating any significant changes in the construction, grading or drainage plans****;*

-- *a buffer zone, sufficient to restrain visible sedimentation, must be provided and maintained between the land-disturbing activity and any adjacent property or watercourse;*

-- *new or affected cut or filled slopes must be at an angle that can be retained by vegetative cover, AND* ***must be provided with a ground cover*** *sufficient to restrain erosion* ***within 21 calendar days of completion of any phase (rough or final) of grading*** *(RYE GRASS IS NOT in the APPROVED seeding specifications NOR is it an ACCEPTABLE substitute for the providing of a temporary ground cover);*

-- *the* ***CERTIFICATE OF PLAN APPROVAL*** ***must be posted*** *at the primary entrance to the job site and remain until the site is permanently stabilized;*

-- *unless a temporary, manufactured, lining material has been specified, a clean straw mulch must be applied, at the minimum rate of 2 tons/acre, to all seeded areas. The mulch must cover at least 75% of the seeded area after it is either tacked, with an acceptable tacking material, or crimped in place;*

-- *in order to comply with the intent of the Act, the scheduling of the land-disturbing activities is to be such that both the area of exposure and the time between the land disturbance and the providing of a ground cover is minimized;*

-- *a* ***permanent ground cover****, sufficient restrain erosion,* ***must be provided*** *within the shorter of 15 working or 90 calendar days after completion of*

*construction or development on any portion of the tract (**RYE GRASS IS NOT** in the **APPROVED** seeding specifications **NOR** is it an **ACCEPTABLE** substitute for the providing of a nurse cover for the permanent grass cover)*; and,

-- *this approval is based, in part, on the accuracy of the information provided in the Financial Responsibility/Ownership form submitted with the project plans. You are required to file an amended form if there is any change in the information included on the form. This approval and the financial responsibility/liability cited in it does not automatically transfer with a change in project ownership.*

Be advised that to ensure compliance with the approved plan and the program requirements, unannounced periodic inspections will be made. If it is determined that the implemented plan is inadequate, this office may require the installation of additional measures and/or that the plan be revised to comply with state law. (Note: Revisions to the scope of this project without prior approval of the plan showing the changes can be considered a violation). Failure to comply with any part of the approved plan or with any requirements of this program could result in the taking of appropriate legal action (civil or criminal) against the financially responsible party *(Soundside Recycling and Materials, Inc.)*. Some options are Stop Work Orders and the assessing of a civil penalty of up to $5000 for the initial violation plus up to $5000 per day for each day the site is out of compliance.

In recognizing the desirability of early coordination of sedimentation control, we believe it would be beneficial for you and your contractor to arrange a preconstruction conference to discuss the requirements of the approved erosion and sedimentation control plan. Prior to beginning this project, **YOU ARE REQUIRED TO** either **CONTACT THIS OFFICE TO ADVISE** Mr. Eric Pare (252-946-6481, ext. 3858) **OF THE CONSTRUCTION START-UP DATE**, contractor and on-site contact person OR complete and return the attached Project Information Sheet to the above named.

Acceptance and approval of this plan is conditioned upon your compliance with Federal and State water quality laws, regulations and rules. In addition, the land disturbing activity described in this plan may also require approval or permitting from other agencies - Federal, State or local. These could include the U.S. Army Corps of Engineers under Article 4.0.4. jurisdiction, the Division of Water Quality - Surface Water Section under stormwater regulations (contact the Stormwater group at 252-946-6481), county, city or town agencies under other local ordinances, or other approvals that may be required. **This approval does not supersede any other approval or permit**.

Please be advised that all land-disturbing activities affecting 1 or more acres are required to have a (Federal) NPDES permit. Enclosed is the Construction Activities General NPDES Permit - NCG010000 for this project. The responsibility for understanding and complying with

this permit rests with you, the financially responsible party. Be aware that failure to comply with this permit could result in both the State and Federal governments taking appropriate legal action. Contact the Division of Water Quality - Surface Water Section at (252) 946-6481 should you have any questions regarding monitoring and record keeping requirements of the permit.

Sincerely,

Patrick H. McClain, PE
Regional Engineer

:pm

enclosures

w/o enc. cc: Robert Stewart, PE, Performance Engineering
Donna Voliva, Currituck County Planning Department

PROJECT INFORMATION SHEET

APPROVAL DATE: July 11, 2006

OWNER: *SOUNDSIDE RECYCLING and MATERIALS, INC.*

PROJECT NAME: SOUNDSIDE RECYCLING

COUNTY: CURRITUCK NO.: 2006-028

START-UP DATE: _____

CONTRACTOR: _____

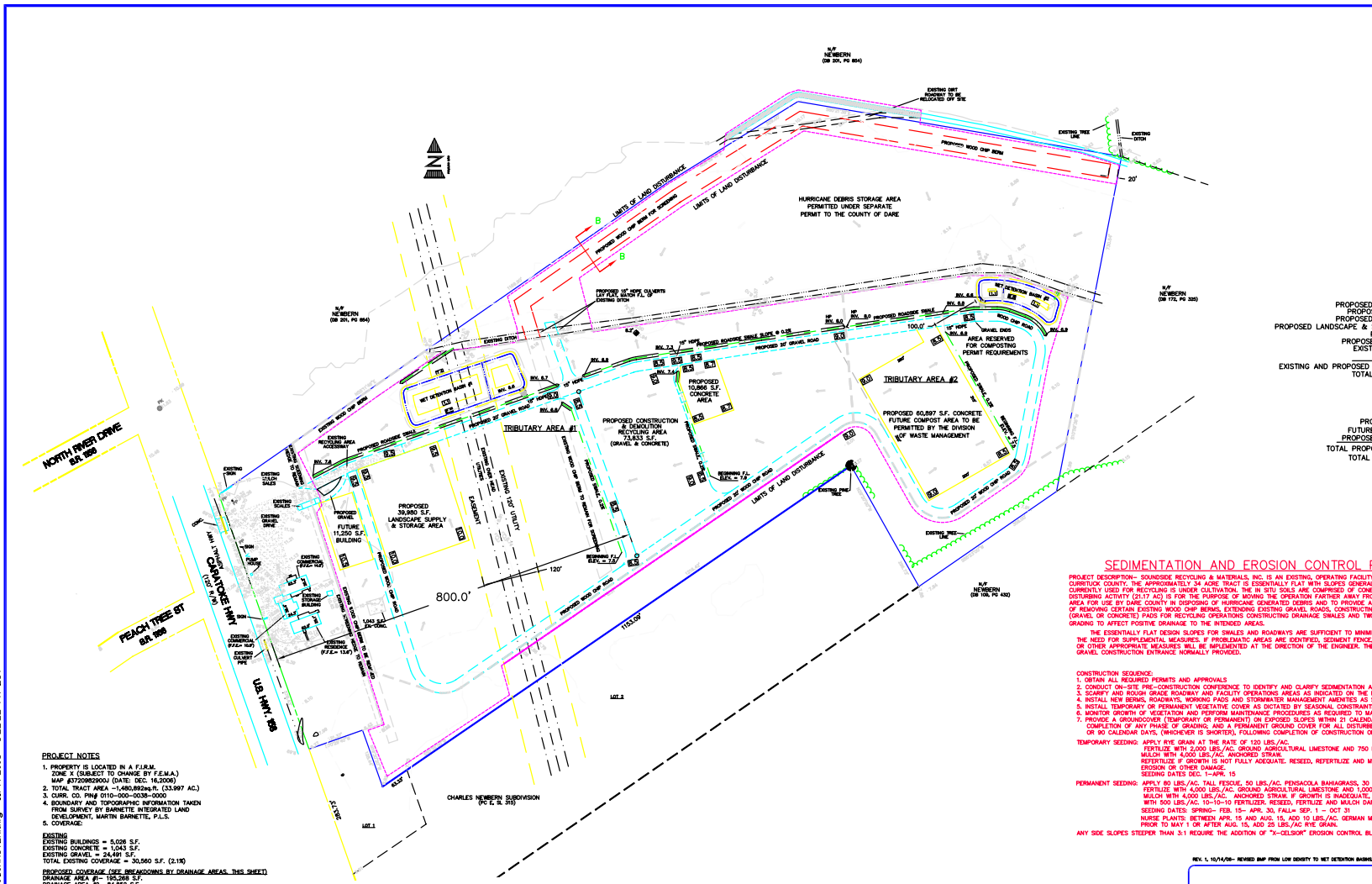
ON-SITE CONTACT: _____

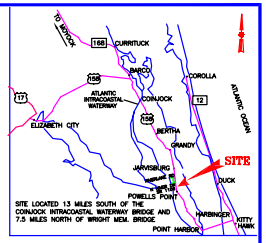
ON-SITE PHONE NO.: _____

OFFICE PHONE NO.: _____

PLEASE COMPLETE & RETURN TO:

N.C.D.E.N.R.
LAND QUALITY SECTION
ATTN: *MR. ERIC PARE*
943 WASHINGTON SQUARE MALL
WASHINGTON, NORTH CAROLINA 27889





VICINITY MAP
(1 INCH = 8 MILES)

DRAINAGE AREA 1
601,003 sq. ft.
13.80 acres

PROPOSED WOOD CHIP RD.= 31,546 sq.ft.
PROPOSED GRAVEL RD.= 28,412 sq. ft.
PROPOSED GRAVEL AREA = 73,211 sq. ft.
PROPOSED LANDSCAPE & STORAGE AREA = 39,980 sq. ft.
PROPOSED BLDG.= 11,250 sq. ft.
PROPOSED CONC. AREA = 10,869 sq. ft.
EXISTING CONC. AREA = 1,043 sq. ft.
EXISTING SCALES = 198 sq. ft.
EXISTING AND PROPOSED IMPERVIOUS AREA = 196,509 S.F.
TOTAL PROPOSED IMPERVIOUS = 32.7%

DRAINAGE AREA 2
203,223 sq. ft.
4.67 acres

PROPOSED GRAVEL RD.= 5,555 sq. ft.
FUTURE COMPOST AREA = 60,897 sq. ft.
PROPOSED WOOD CHIP RD.= 18,400. sq.ft.
TOTAL PROPOSED IMPERVIOUS AREA = 84,852 S.F.
TOTAL PROPOSED IMPERVIOUS = 41.8%

SEDIMENTATION AND EROSION CONTROL PLAN

PROJECT DESCRIPTION- SOUNDSIDE RECYCLING & MATERIALS, INC. IS AN EXISTING, OPERATING FACILITY LOCATED IN THE JARVISBURG COMMUNITY OF CURRITUCK COUNTY. THE APPROXIMATELY 34 ACRE TRACT IS ESSENTIALLY FLAT WITH SLOPES GENERALLY LESS THAN 1%. THE AREA OF THE TRACT NOT CURRENTLY USED FOR RECYCLING IS UNDER CULTIVATION. THE IN SITU SOILS ARE COMPRISED OF CONETO AND NIMMO LOAMY SANDS. THE PROPOSED LAND DISTURBING ACTIVITY (21.17 AC) IS FOR THE PURPOSE OF MOVING THE OPERATION FARTHER AWAY FROM THE HIGHWAY AND TO EXPAND THE FACILITY TO PROVIDE AN AREA FOR USE BY DARE COUNTY IN DISPOSING OF HURRICANE GENERATED DEBRIS AND TO PROVIDE AN AREA FOR COMPOSTING. WORK TO ENSUE CONSISTS OF REMOVING CERTAIN EXISTING WOOD CHIP BERMS, EXTENDING EXISTING GRAVEL ROADS, CONSTRUCTING NEW WOOD CHIP ROADS AND BERMS, CONSTRUCTING HARD SURFACE (GRAVEL OR CONCRETE) PADS FOR RECYCLING OPERATIONS CONSTRUCTING DRAINAGE SWALES AND TWO WET DETENTION BASINS AS SHOWN ON THE PLANS AND INCIDENTAL GRADING TO AFFECT POSITIVE DRAINAGE TO THE INTENDED AREAS.

THE ESSENTIALLY FLAT DESIGN SLOPES FOR SWALES AND ROADWAYS ARE SUFFICIENT TO MINIMIZE EROSION CONTROL PROBLEMS WITHOUT THE NEED FOR SUPPLEMENTAL MEASURES. IF PROBLEMATIC AREAS ARE IDENTIFIED, SEDIMENT FENCE, EROSION CONTROL BLANKET, CHECK DAMS OR OTHER APPROPRIATE MEASURES WILL BE IMPLEMENTED AT THE DIRECTION OF THE ENGINEER. THE EXISTING GRAVEL PARKING LOT WILL FUNCTION AS THE GRAVEL CONSTRUCTION ENTRANCE NORMALLY PROVIDED.

CONSTRUCTION SEQUENCE:
1. OBTAIN ALL REQUIRED PERMITS AND APPROVALS
2. CONDUCT ON-SITE PRE-CONSTRUCTION CONFERENCE TO IDENTIFY AND CLARIFY SEDIMENTATION AND EROSION CONTROL REQUIREMENTS AND/OR
3. SCARIFY AND ROUGH GRADE ROADWAY AND FACILITY OPERATIONS AREAS AS INDICATED ON THE PLANS.
4. INSTALL NEW BERMS, ROADWAYS, WORKING PADS AND STORMWATER MANAGEMENT AMENITIES AS SHOWN ON THE PLANS.
5. INSTALL TEMPORARY OR PERMANENT VEGETATIVE COVER AS DICTATED BY SEASONAL CONSTRAINTS AND AS SET FORTH IN NOTE NO. 7 BELOW.
6. MONITOR GROWTH OF VEGETATION AND PERFORM MAINTENANCE PROCEDURES AS REQUIRED TO MAINTAIN GROWTH.
7. PROVIDE A GROUNDCOVER (TEMPORARY OR PERMANENT) ON EXPOSED SLOPES WITHIN 21 CALENDAR DAYS FOLLOWING COMPLETION OF ANY PHASE OF GRADING, AND A PERMANENT GROUND COVER FOR ALL DISTURBED AREAS WITHIN 15 WORKING DAYS OR 90 CALENDAR DAYS, (WHICHEVER IS SHORTER), FOLLOWING COMPLETION OF CONSTRUCTION OR DEVELOPMENT.

TEMPORARY SEEDING: APPLY RYE GRAIN AT THE RATE OF 120 LBS./AC.
FERTILIZE WITH 2,000 LBS./AC. GROUND AGRICULTURAL LIMESTONE AND 750 LBS./AC. 10-10-10 FERTILIZER.
MULCH WITH 4,000 LBS./AC. ANCHORED STRAW.
REFERTILIZE IF GROWTH IS NOT FULLY ADEQUATE. RESEED, REFERTILIZE AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE.
SEEDING DATES DEC. 1—APR. 15

PERMANENT SEEDING: APPLY 80 LBS./AC. TALL FESCUE, 50 LBS./AC. PENSACOLA BAHIAGRASS, 30 LBS./AC. KOBE LESPEDEZA.
FERTILIZE WITH 4,000 LBS./AC. GROUND AGRICULTURAL LIMESTONE AND 1,000 LBS./AC. 10-10-10 FERTILIZER.
MULCH WITH 4,000 LBS./AC. ANCHORED STRAW. IF GROWTH IS INADEQUATE, TOPDRESS THE SECOND YEAR WITH 500 LBS./AC. 10-10-10 FERTILIZER. RESEED, FERTILIZE AND MULCH DAMAGED AREAS IMMEDIATELY.
SEEDING DATES: SPRING- FEB. 15— APR. 30, FALL= SEP. 1 — OCT 31
NURSE PLANTS: BETWEEN APR. 15 AND AUG. 15, ADD 10 LBS./AC. GERMAN MILLET OR 15 LBS./AC. SUDANGRASS. PRIOR TO MAY 1 OR AFTER AUG. 15, ADD 25 LBS./AC RYE GRAIN.

ANY SIDE SLOPES STEEPER THAN 3:1 REQUIRE THE ADDITION OF "X-CELSIOR" EROSION CONTROL BLANKET.

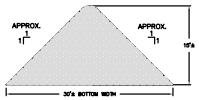
REV. 1, 10/14/06- REVISED BMP FROM LOW DENSITY TO WET DETENTION BASINS, INCLUDED ADDING SECOND SHEET, NOTED REVISIONS

PROJECT NOTES
1. PROPERTY IS LOCATED IN A F.I.R.M. ZONE X (SUBJECT TO CHANGE BY F.E.M.A.) MAP #3720982900J (DATE: DEC. 16,2006)
2. TOTAL TRACT AREA =1,490,892sq.ft. (33.997 AC.)
3. CURR. CO. PIN# 0110-000-0038-0000
4. BOUNDARY AND TOPOGRAPHIC INFORMATION TAKEN FROM SURVEY BY BARNETTE INTEGRATED LAND DEVELOPMENT, MARTIN BARNETTE, P.L.S.
5. COVERAGE:

EXISTING
EXISTING BUILDINGS = 5,026 S.F.
EXISTING CONCRETE = 1,043 S.F.
EXISTING GRAVEL = 24,491 S.F.
TOTAL EXISTING COVERAGE = 30,560 S.F. (2.1%)

PROPOSED COVERAGE (SEE BREAKDOWNS BY DRAINAGE AREAS, THIS SHEET)
DRAINAGE AREA #1- 195,268 S.F.
DRAINAGE AREA #2- 84,852 S.F.
TOTAL PROPOSED COVERAGE = 280,120 S.F.
TOTAL COVERAGE AFTER IMPROVEMENTS = 310,680 S.F. (21%)
6. THERE ARE NO U.S.A.C.O.E. JURISDICTIONAL WETLANDS LOCATED ON THE SUBJECT TRACT.
7. ALL PROPOSED CULVERTS ARE TO BE 15" DIA. H.D.P.E. SMOOTH WALL.

LEGEND
UTIL. POLE
UTILS. PED.
TOE OF SLOPE
TOP OF BANK
EXISTING SPOT ELEVATION
PROPOSED FINISH GRADE
LIMITS OF LAND DISTURBANCE
DRAINAGE BASIN TRIBUTARY AREA



TYPICAL WOOD CHIP BERM PROFILE
SECTION B-B
1"= 10'

SOUNDSIDE RECYCLING & MATERIALS, INC.

PROPOSED SITE PLAN

JARVISBURG, CURRITUCK CO.,NORTH CAROLINA

SHEET: 1 OF 2

SCALE: 1"= 100'	DRAWN: KPO	APPROVED: RJS	CADD FILE: 980SP	
PROJECT NO: 980	DATE: 9/15/06	REVISION DATES	CURRENT REVISION: 1 REV. 1 10/14/06	

PERFORMANCE ENGINEERING
8604 CARATOKE HIGHWAY — POWELLS POINT, NC 27966
PHONE (252) 491-8364 FAX (252) 491-2112

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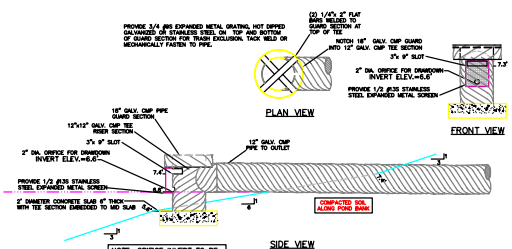
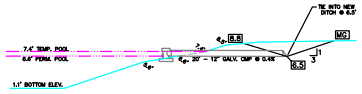
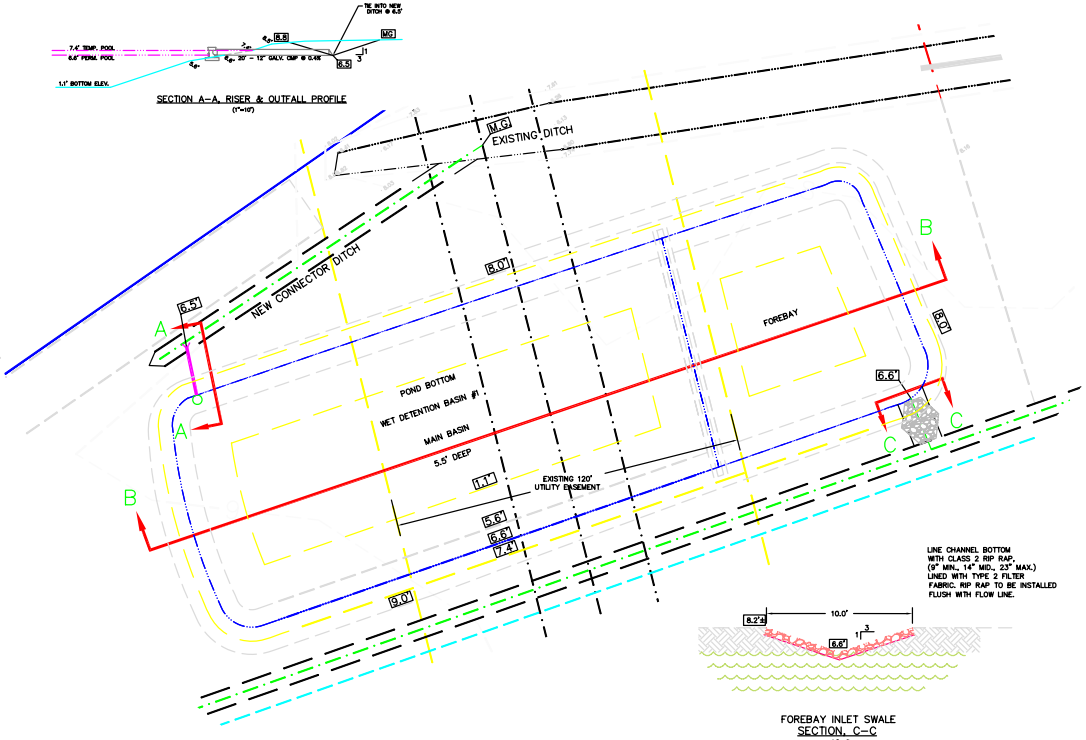


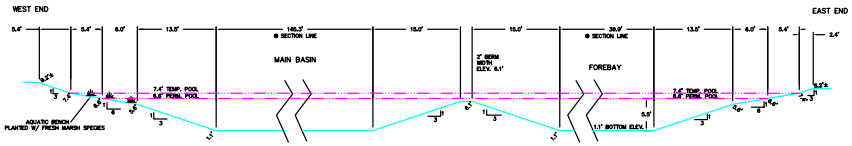
GUARDED RISER DETAILS
1" = 3'



SECTION A-A, RISER & OUTFALL PROFILE
(1"=10')



FOREBAY INLET SWALE
SECTION, C-C
(1"=4')



SECTION B-B, WET DETENTION BASIN AND FOREBAY
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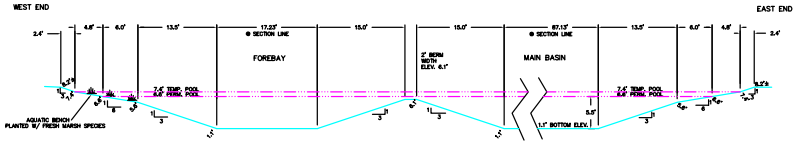
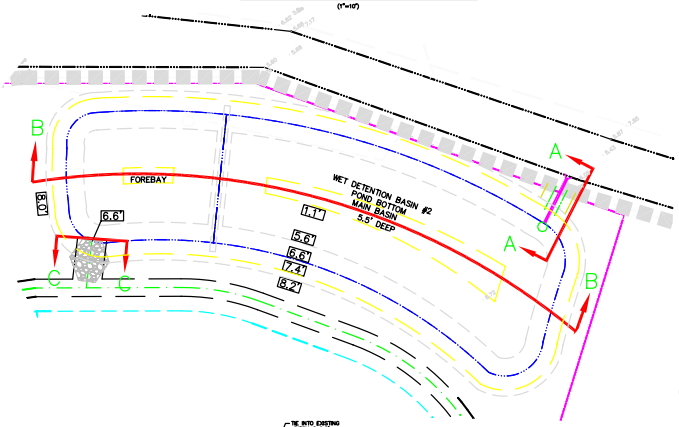
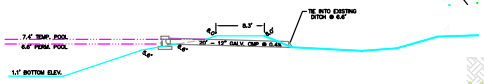
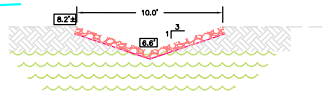


SECTION B-B, WET DETENTION BASIN AND FOREBAY
(1"=10')

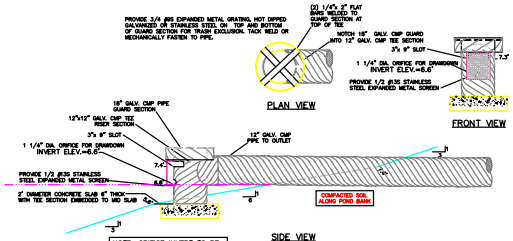




SECTION A-A, RISER & OUTFALL PROFILE
(1"=10')



FOREBAY INLET SWALE
SECTION, C-C
(1"=4')



GUARDED RISER DETAILS
1" = 3'

SOUNDSIDE RECYCLING & MATERIALS, INC.

STORMWATER PLAN

JARVISBURG, CURRITUCK CO.,NORTH CAROLINA

SHEET: 2 OF 2

SCALE: 1"= 20'	DRAWN: KPG	APPROVED: RJS	CADD FILE: 980SP CURRENT REVISION:
PROJECT NO. 980	DATE: 9/15/06	REVISION DATES	

PERFORMANCE ENGINEERING
8604 CAMPTOWN HIGHWAY ~ POWELLS POINT, NC 27966
PHONE (252) 491-8354 FAX (252) 491-5112

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State of North Carolina
Department of Environment and Natural Resources
Washington Regional Office

James B. Hunt, Jr., Governor

Bill Holman, Secretary

JUN 2000 Section

DIVISION OF LAND RESOURCES
LAND QUALITY SECTION
June 6, 2000

LETTER OF APPROVAL OF REVISED PLAN

Soundside Recycling & Materials, Inc.
ATTN: Ms. Kimberly J. Newbern, President
Post Office Box 176
Aydlett, North Carolina 27916

RE: Erosion and Sedimentation Control Plan
Soundside Recycling
US 158 - Currituck County
River Basin: Pasquotank
Date Received: May 31, 2000
Responsible Party: Soundside Recycling & Materials, Inc.

Dear Ms. Newbern:

This office has completed its review of the revised erosion and sedimentation control plan for the referenced 3.0 acre disturbance. Based on the information provided, we have determined the submitted plan for the grading and drainage improvements associated with the construction of a commercial facility, if properly implemented, will meet the minimum requirements of the Act. We, therefore, issue this LETTER OF APPROVAL.

In 1973, the Sedimentation Pollution Control Act (copy available upon request) was enacted. It established a performance oriented program requiring a project owner or developer to protect adjoining natural resources and properties, both during and after construction, from the effects of accelerated erosion. It is **YOUR RESPONSIBILITY** to understand and comply with the following minimum requirements of the Act:

-- *an erosion and sedimentation control plan is only valid for 3 years following the date of initial approval, if no land-disturbing activity has been undertaken;*

-- *the LATEST APPROVED soil erosion and sediment control plan will be used during inspection to determine compliance and a copy of the plan must be on file at the job site;*

-- *except in the case of a storm related emergency,* ***a revised erosion and sedimentation control plan must be submitted to and approved by this office prior to initiating any significant changes in the construction, grading or drainage plans****;*

-- *a buffer zone, sufficient to restrain visible sedimentation, must be provided and maintained between the land-disturbing activity and any adjacent property or watercourse;*

-- *new or affected cut or filled slopes must be at an angle that can be retained by vegetative cover;*

-- ***new or affected*** *barren* ***slopes must be provided with a ground cover*** *sufficient to restrain erosion* ***within the shorter of 15 working or 30 calendar days of completion of any phase (rough or final) of grading*** *(****RYE GRASS IS NOT*** *in the approved seeding specifications nor is it an* ***ACCEPTABLE*** *substitute for the providing of a temporary ground cover);*

-- *unless a temporary, manufactured, lining material has been specified, a clean straw mulch must be applied, at the minimum rate of 2 tons/acre, to all seeded areas. The mulch must cover at least 75% of the seeded area after it is either tacked, with an acceptable tacking material, or crimped in place;*

-- *in order to comply with the intent of the Act, the scheduling of the land-disturbing activities is to be such that both the area of exposure and the time between the land disturbance and the providing of a ground cover is minimized;*

-- *a* ***permanent ground cover****, sufficient restrain erosion,* ***must be provided*** *within the shorter of 30 working or 120 calendar days after completion of construction or development on any portion of the tract;* and,

-- *this approval is based, in part, on the accuracy of the information provided in the Financial Responsibility/Ownership form submitted with the project plans. You are required to file an amended form if there is any change in the information included on the form. This approval and the financial responsibility/liability cited in it does not automatically transfer with a change in project ownership.*

Be advised that to ensure compliance with the approved plan and the program requirements, unannounced periodic inspections will be made. If it is determined that the implemented plan is inadequate, this office may require the installation of additional measures and/or that the plan be revised to comply with state law. (Note: Revisions to the scope of this project without prior approval of the plan showing the changes can be considered a violation). Failure to comply with any

part of the approved plan or with any requirements of this program could result in the taking of appropriate legal action against the financially responsible party *(Soundside Recycling & Materials, Inc.)*. One option is the assessing of a civil penalty of up to $5000 for the initial violation plus up to $5000 per day for each day the site is out of compliance.

In recognizing the desirability of early coordination of sedimentation control, we believe it would be beneficial for you and your contractor to arrange a preconstruction conference to discuss the requirements of the approved erosion and sedimentation control plan. It would be appreciated if you would contact this office to advise Mr. Bill Crew (252-946-6481, ext. 374) of the construction start-up date, contractor and on-site contact person or, please, complete and return the attached Project Information Sheet to the above named.

Acceptance and approval of this plan is conditioned upon your compliance with Federal and State water quality laws, regulations and rules. In addition, the land disturbing activity described in this plan may also require approval or permitting from other agencies - Federal, State or local. These could include the U.S. Army Corps of Engineers under Article 4.0.4. jurisdiction, the Division of Water Quality - Surface Water Section under stormwater regulations (contact Mr. Bill Moore, 252-946-6481, ext. 264), county, city or town agencies under other local ordinances, or other approvals that may be required. <u>This approval does not supersede any other approval or permit</u>.

Sincerely,

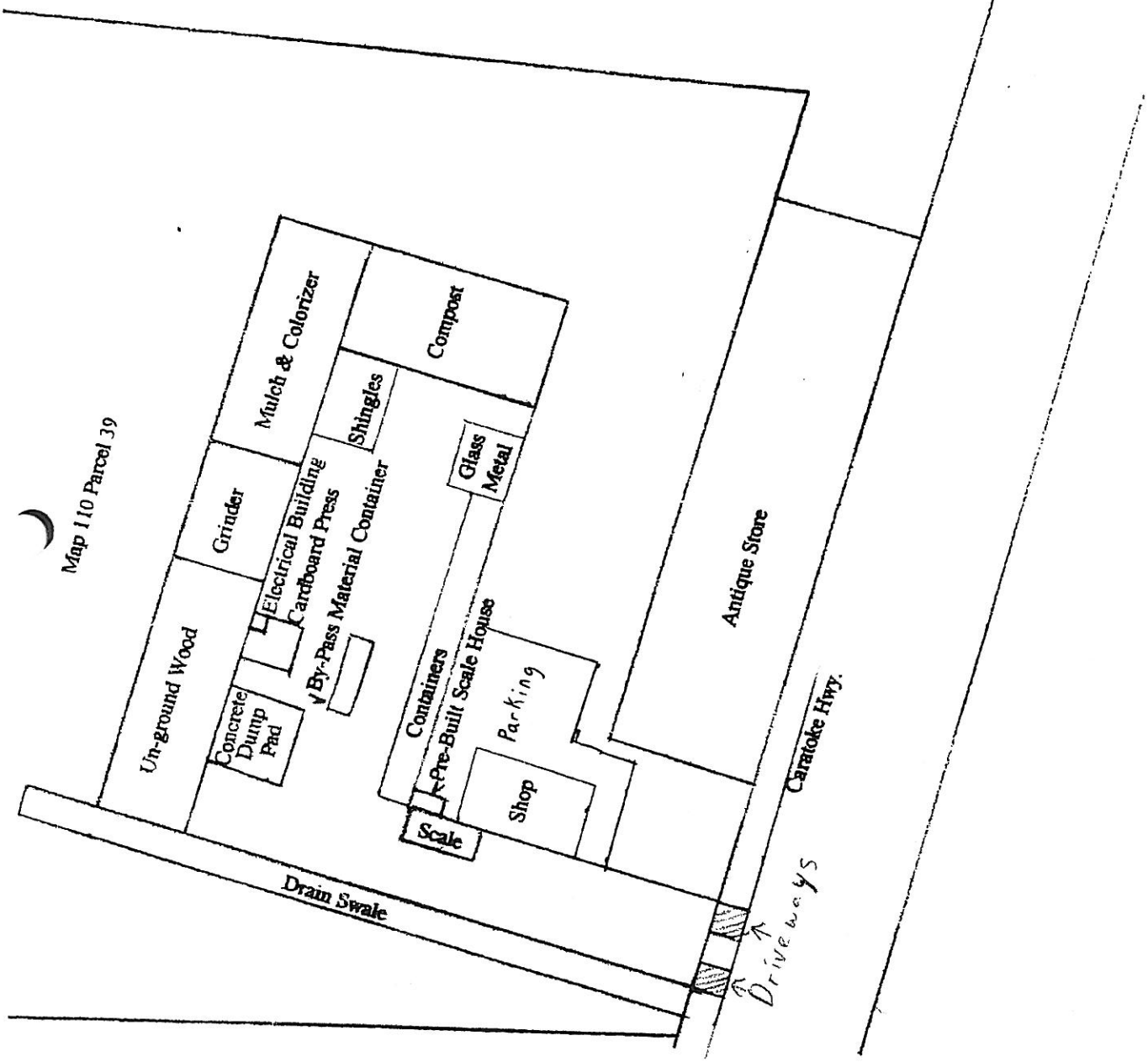
Patrick H. McClain, PE
Assistant Regional Engineer

:pm

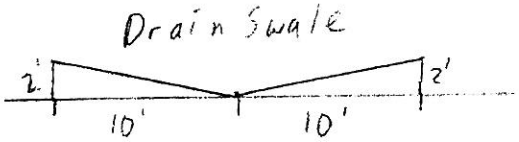
enclosures

cc: (w/o enc.) H. B. Briggs, Currituck County Planner

Soundside Recycling & Materials, Inc.
Site Plan



Scale 1"=100'



SOUNDSIDE RECYCLING & MATERIALS, INC.
P.O. Box176
Aydlett, NC 27916

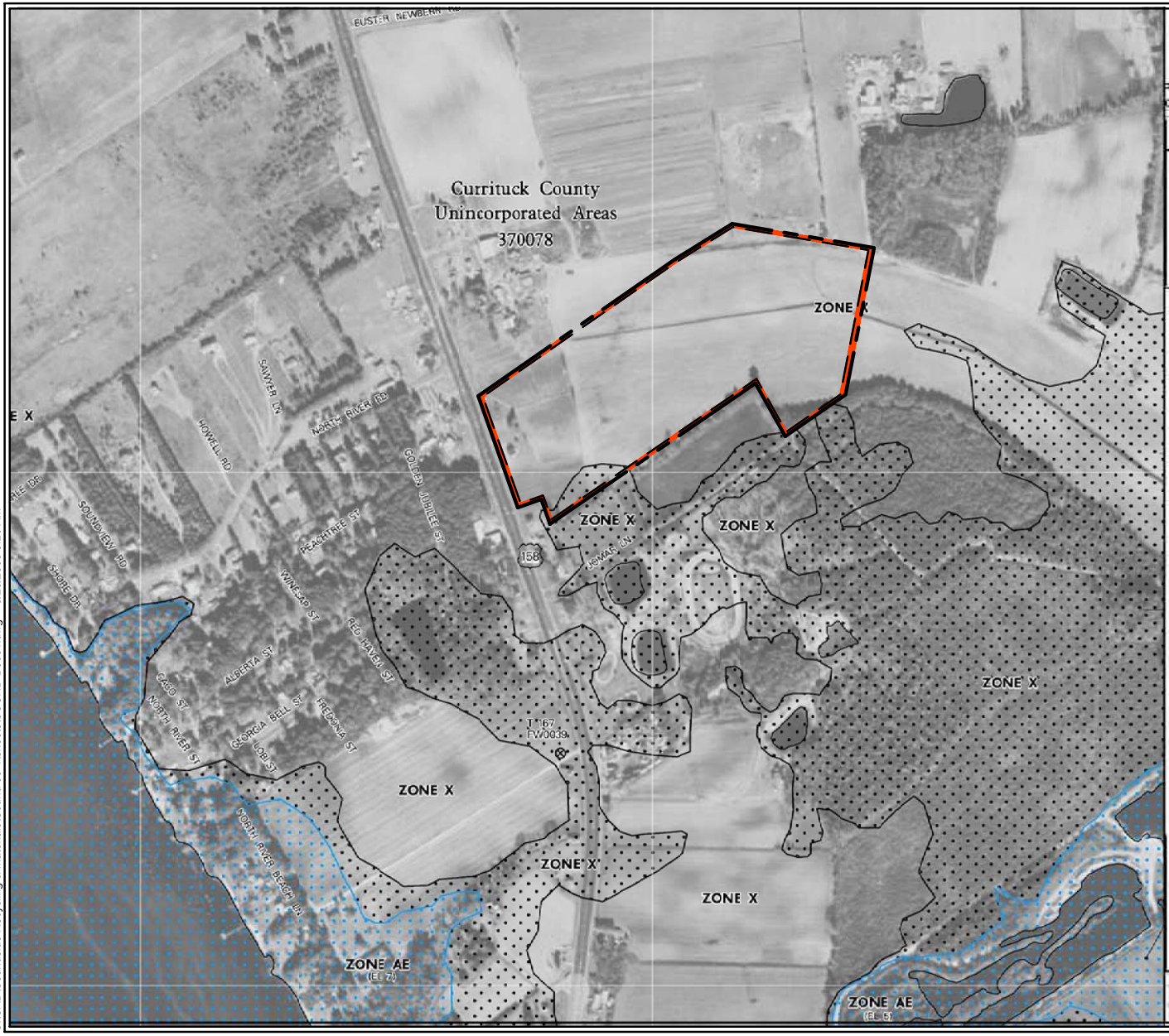
Soil Erosion and Sediment Control Plan Narrative

The recycling site located at 7565 Carotoke Highway will be used to dump, sort, and process construction waste for recycling. There is a natural hill that has less than one percent slope where the recycling area will be. This will not be changed and will allow storm water to slowly run to a lower area and seep in. The site has a grass pasture to the North, East, and South of the recycling site. The storm water run off from the road drain swell will drain onto the pasture to evaporate. The recycling area and entrance road will be impervious area of ABC stone or asphalt shingle scrap. The drain swale will be seeded with 50 lbs. Fescue and 75 lbs. Bahaia per acre. There will be 800 lbs. per acre of 10-10-10 and 1000 lbs. per acre of lime spread on the drain swale and will be mulched to prevent erosion. The road will be graded on June 15 and the seeding and mulching will be done within one week after grading. Wheat straw will be used to mulch the drain swale.

Horatio D. Newbern IV

Attachment G

FEMA Firm Map &
Wetlands Documentation



GRID NORTH

SCALE 1" = 500' (1 : 6,000)

0 500 1000 FEET

NFIP

NATIONAL FLOOD INSURANCE PROGRAM

PANEL 9829J

FIRM

FLOOD INSURANCE RATE MAP

NORTH CAROLINA

PANEL 9829

(SEE LOCATOR DIAGRAM OR MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	CID No.	PANEL	SUFFIX
CURRITUCK COUNTY	370078	9829	J

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

EFFECTIVE DATE
DECEMBER 16, 2005

MAP NUMBER
3720982900J

State of North Carolina
Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov

RICHARDSON SMITH GARDNER & ASSOCIATES

14 N. Boylan Ave.
Raleigh, N.C. 27603

ph: 919-828-0577
fax: 919-828-3899

www.rsgengineers.com

DRAWN BY:	CHECKED BY:	SCALE:	FIGURE NO.
C.T.J.		AS SHOWN	1
DATE:	PROJECT NO.	FILE NAME	
Sep. 2008	SOUND 08-1	SOUND-B0001	

TITLE:

SOUNDSIDE RECYCLING
AND MATERIALS
FLOODPLAIN MAP

G:\CAD\Soundside Recycling & Materials\Sound 08-1\sheets\SOUND-B0001.dwg - 9/23/2008 9:26 AM

U.S. ARMY CORPS OF ENGINEERS
WILMINGTON DISTRICT

Action ID. **2008-02257** County: **Currituck**

NO DEPARTMENT OF THE ARMY AUTHORIZATION REQUIRED

Property Owner / Agent: **Racy Newbern/ Soundside Recycling and Materials**
Address: **7565 Caratoke Highway**
Jarvisburg, North Carolina 27947
Telephone Number: **252-491-8666**

Size and Location of Property (waterbody, road name/number, town, etc.): **7565 Caratoke Highway, Jarvisburg, Currituck County, North Carolina.**

Description of Activity: **Upland disposal site for construction and demolition debris.**

Your work as proposed does not require Department of the Army authorization for the following reason(s):

_ There are no jurisdictional waters or wetlands within the boundaries of the property.
X The proposed project does not impact jurisdictional waters or wetlands.
_ The proposed project is exempt from Department of the Army regulation.
Specify: _____.

This Department of the Army determination does not relieve the permittee of the responsibility to obtain any other required Federal, State, or local approvals/permits. The permittee may need to contact appropriate State and local agencies before beginning work.

For any activity within the twenty coastal counties, before beginning work, you must contact the N.C. Division of Coastal Management in Elizabeth City, North Carolina, at (252) 264-3901 to discuss any required State authorization.

Any changes in the above described work must be coordinated with the Corps of Engineers prior to commencement. If you have any questions regarding the Corps of Engineers regulatory program, please contact **Tom Steffens** at telephone number (252) 975-1616 ext. **25**.

Regulatory Project Manager Signature TM STEFFENS

Date: **08/05/2008**

SURVEY PLATS, FIELD SKETCH, WETLAND DELINEATION FORM, ETC., MUST BE ATTACHED TO THE YELLOW (FILE) COPY OF THIS FORM, IF REQUIRED OR AVAILABLE.

Attachment H

Stormwater Permit

Michael F. Easley, Governor

William G. Ross Jr., Secretary
North Carolina Department of Environment and Natural Resources

Alan W. Klimek, P.E. Director
Division of Water Quality

DIVISION OF WATER QUALITY
January 10, 2007

Soundside Recycling & Materials, Inc
Attn: Mr. Horatio D. Newbern, IV
7565 Caratoke Highway
Jarvisburg, NC 27947

Subject: Stormwater Permit No. SW7060618
Soundside Recycling & Materials
High Density Stormwater Project
Currituck County

Dear Mr. Newbern:

The Washington Regional Office received your completed storwmater application on October 16, 2006. After reviewing the plans, specifications and supporting information, it has been determined that this project will comply with the Stormwater Regulations set forth in Title 15A NCAC 2H.1000. We are forwarding Permit SW7060618 dated January 10, 2007 to Soundside Recycling & Materials, Inc. for (2) wet detention ponds to serve Soundside Recycling & Materials located at Jarvisburg, NC.

This permit replaces stormwater permit SW7000517 previously issued for this site, and shall be effective from the date of issuance until January 10, 2017, and shall be subject to the conditions and limitations as specified therein. Please pay special attention to the Operation and Maintenance requirements in this permit. Failure to establish an adequate system for operation and maintenance of the stormwater management system will result in future compliance problems.

If any parts, requirements, or limitations contained in this permit are unacceptable, you have the right to request an adjudicatory hearing upon written request within thirty (30) days following receipt of this permit. This request must be in the form of a written petition, conforming to Chapter 150B of the North Carolina General Statutes, and filed with the Office of Administrative Hearings, P.O. Drawer 27447, Raleigh, NC 27611-7447. Unless such demands are made this permit shall be final and binding.

If you have any questions, or need additional information concerning this matter, please contact Bill Moore at (252) 948-3919.

Sincerely,

Al Hodge, Regional Supervisor
Surface Water Protection Section
Washington Regional Office

cc: Performance Engineering
Currituck County Planning/Inspections
Washington Regional Office
Central Files

STATE OF NORTH CAROLINA
DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
DIVISION OF WATER QUALITY

STATE STORMWATER MANAGEMENT PERMIT

HIGH DENSITY DEVELOPMENT

In accordance with the provisions of Article 21 of Chapter 143, General Statutes of North Carolina as amended, and other applicable Laws, Rules, and Regulations

PERMISSION IS HEREBY GRANTED TO

Soundside Recycling & Materials, Inc.

Currituck County

FOR THE

construction, operation and maintenance of stormwater management systems in compliance with the provisions of 15A NCAC 2H.1000 (hereafter referred to as the *"stormwater rules"*) and the approved stormwater management plans and specifications and other supporting data as attached and on file with and approved by the Division of Water Quality and considered a part of this permit for grass swales and (2) wet detention ponds to serve Soundside Recycling & Materials located at Jarvisburg, NC.

This permit replaces SW7000517 previously issued for this site, and shall be effective from the date of issuance until January 10, 2017, and shall be subject to the following specified conditions and limitations:

I. DESIGN STANDARDS

1. This permit is effective only with respect to the nature and volume of stormwater described in the application and other supporting data.

2. This stormwater system has been approved for the management of stormwater runoff as described on page 4 of this permit, the Project Data Sheet.

3. Approved plans and specifications for this project are incorporated by reference and are enforceable parts of the permit.

DIVISION OF WATER QUALITY
PROJECT DATA

Project Name:	Soundside Recycling & Materials
Permit Number:	SW7060618
Location:	Currituck County
Applicant:	Soundside Recycling and Materials, Inc.
Mailing Address:	7565 Caratoke Highway Jarvisburg, NC 27947
Application Date:	06/13/2006 10/16/2006; completed
Receiving Stream:	UT-Currituck Sound
Stream Classification:	SC
Total Site Area:	34 acres
Total Impervious: Area Allowed	7.13 acres
Pond Depth:	5.5 ft
Required Storage Volume:	17,529 cf - Basin 1 7282 cf - Basin 2
Provided Storage Volume:	17,664 cf - Basin 1 7339 cf - Basin 2
Required Surface Area:	12,621 sf - Basin 1 5284 sf - Basin 2
Provided Surface Area:	20,486 sf - Basin 1 8104 sf - Basin 2
Controlling Orifice:	2.00-inch - Basin 1 1.25-inch - Basin 2

4. No homeowner/lot owner/developer shall be allowed to fill in, alter, or pipe any vegetative practices (such as swales) shown on the approved plans as part of the stormwater management system without submitting a revision to the permit and receiving approval from the Division.

5. The following items will require a modification to the permit:
   a. Any revision to the approved plans, regardless of size
   b. Project name change
   c. Transfer of ownership
   d. Redesign or addition to the approved amount of built-upon area
   e. Further subdivision of the project area.

   In addition, the Director may determine that other revisions to the project should require a modification to the permit.

6. The Director may notify the permittee when the permitted site does not meet one or more of the minimum requirements of the permit. Within the time frame specified in the notice, the permittee shall submit a written time schedule to the Director for modifying the site to meet minimum requirements. The permittee shall provide copies of revised plans and certification in writing to the Director that the changes have been made.

II. SCHEDULE OF COMPLIANCE

1. The permittee will comply with the following schedule for construction and maintenance of the stormwater management system.

   a. The stormwater management system shall be constructed in its entirety, vegetated and operational for its intended use prior to the construction of any built-upon surfaces except roads.

   b. During construction, erosion shall be kept to a minimum and any eroded areas of the system will be repaired immediately.

2. The facilities must be properly maintained and operated at all times. The approved Operation and Maintenance Plan must be followed in its entirety and maintenance must occur at the scheduled intervals.

3. The permittee shall at all times provide the operation and maintenance necessary to assure the permitted stormwater system functions at optimum efficiency including, but not limited to:

a. Semiannual scheduled inspections (every 6 months)
b. Sediment removal
c. Mowing and revegetation of side slopes
d. Immediate repair of eroded areas
e. Maintenance of side slopes in accordance with approved plans and specifications
f. Debris removal and unclogging of outlet structure, orifice device and catch basins and piping.

4. Records of maintenance activities must be kept and made available upon request to authorized personnel of DWQ. The records will indicate the date, activity, name of person performing the work and what actions were taken.

5. This permit shall become voidable unless the facilities are constructed in accordance with the conditions of this permit, the approved plans and specifications, and other supporting data.

6. Upon completion of construction and prior to operation of this permitted facility, a certification must be received from an appropriate designer for the system installed certifying that the permitted facility has been installed in accordance with this permit, the approved plans and specifications, and other supporting documentation. Mail the Certification to the Washington Regional Office, 943 Washington Square Mall, Washington, North Carolina, 27889, attention Division of Water Quality.

7. A copy of the approved plans and specifications shall be maintained on file by the Permittee for a minimum of five years from the date of the completion of construction.

III. GENERAL CONDITIONS

1. This permit is not transferable. In the event there is a desire for the facilities to change ownership, or there is a name change of the Permittee, a formal permit request must be submitted to the Division of Water Quality accompanied by an application fee, documentation from the parties involved, and other supporting materials as may be appropriate. The approval of this request will be considered on its merits and may or may not be approved.

2. Failure to abide by the conditions and limitations contained in this permit may subject the Permittee to enforcement action by the Division of Water Quality, in accordance with North Carolina General Statute 143-215.6(a) to 143-215.6(c).

3. The issuance of this permit does not preclude the Permittee from complying with any and all statutes, rules, regulations, or ordinances which may be imposed by other government agencies (local, state, and federal) which have jurisdiction.

4. In the event that the facilities fail to perform satisfactorily, including the creation of nuisance conditions, the Permittee shall take immediate corrective action, including those as may be required by this Division, such as the construction of additional or replacement stormwater management systems.

5. The permit may be modified, revoked and reissued or terminated for cause. The filing of a request for a permit modification, revocation and reissuance or termination does not stay any permit condition.

6. At least six months prior to the expiration date, the permittee must submit a written request for permit renewal to the Division of Water Quality, Washington Regional Office.

Permit issued this the 10 th day of January, 2007.

NORTH CAROLINA ENVIRONMENTAL MANAGEMENT COMMISSION

Alan W. Klimek, P.E. Director
Division of Water Quality
By Authority of the Environmental Management Commission

Permit Number SW7060618

Stormwater Permit No. SW7060618
Soundside Recycling & Materials
Debris Landfill
Grass swales and (2) Wet Pond Systems
Currituck County .

Designer's Certification

I, _____, as a duly registered Professional Engineer in the State of North Carolina, having been authorized to observe (periodically/weekly/full time) the construction of the project, _____

_____(Project)

for _____ (Project Owner)

hereby state that to the best of my abilities, due care and diligence was used in the observation of the project construction such that the construction was observed to be built within substantial compliance and intent of the approved plans and specifications.

Signature _____

Registration Number _____

Date _____

Attachment I

Traffic Documentation

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

MICHAEL F. EASLEY
GOVERNOR

LYNDO TIPPETT
SECRETARY

December 30, 2008

Mr. Andrew Topp, PE, PTOE
Martin/ Alexiou/ Bryson, PLLC
4000 Westchase Blvd, Suite 530
Raleigh, NC 27607

Subject: Proposed Soundside Recycling/ Transfer Station, Currituck County

Mr. Topp,

We have completed our review of your memorandum dated October 28, 2008, which provided Trip Generation and Traffic Impact Analysis associated with the subject site. The site is located on US 158 in the Powells Point area of Currituck County, across from Peachtree Street (SR 1168).

The traffic analysis results indicate that the transfer station will not have a substantial impact on highway traffic in this area. The site is in existence at this time with the same land use as proposed. Site modifications are internal and do not appear to generate a significant amount of additional traffic during normal use.

Given that the site has two driveways dedicated to this site, I would recommend that an internal traffic pattern be established to organize the flow of traffic in and out of the site. Such a pattern should meet drivers' expectations with appropriate signage and markings and provide for sufficient queue storage at the existing scales.

If you have any questions or should you need additional information, please feel free to contact Ms. Gretchen Byrum, District Engineer, at (252) 331-4737.

Sincerely,

Donald Chad W. Edge, III, P.E.
Division Traffic Engineer

DWE/dwe

Cc: Mr. Jerry Jennings, P.E.
Ms. Gretchen Byrum, P.E.

113 Airport Drive, Suite 100, Edenton, NC 27932 Phone: (252) 482-7977 Fax: (252) 482-8722

Martin/Alexiou/Bryson, PLLC
Transportation Planning
Traffic Engineering

MEMORANDUM

To: Jerry Jennings, P.E., NCDOT Division 1 Engineer
From: Andrew Topp, P.E., Martin/Alexiou/Bryson, PLLC
Date: October 2, 2008
Subject: Proposed Soundside Recycling/Transfer Station

Introduction

A bill was recently passed in the North Carolina General Assembly that affects the permitting process for solid waste facilities. This bill, Senate Bill 1492, contains a subsection (included in Appendix) that dictates the terms of a traffic study requirement. Soundside Recycling & Materials, Inc. is seeking to make site modifications to their existing construction and demolition (CD) debris transfer/recycling station, which requires a new permit and requires adherence to this new law. Before commencing with the full development plans for the site and typical driveway permit process, Soundside Recycling & Materials, Inc., is seeking certification from NCDOT as is required by this new law, summarized below:

> *"obtaining a certification from the Division Engineer of the Department of Transportation that the proposed facility will not have a substantial impact on highway traffic."*

This memorandum provides an estimate of the traffic that will be generated in the future by the Soundside Transfer Station located along US 158 in Currituck County, North Carolina. It also provides an estimate of the site's traffic impacts as is required to address the above requirement.

Project Background

The site is located along the eastern side of US 158, directly across from Peach Tree Street (SR 1168). There are two gravel full access driveways that currently serve the site. The northern driveway directly services the rear of the site and existing weigh scales. The lower driveway connects to the site and closely services the office buildings. Under existing patterns, trucks tend to enter through the northern driveway and exit via the northern or southern driveways. Immediately south of the office building is a vacated restaurant building and a residence that is currently advertised for rent. A third driveway is located further south that directly serves these vacant buildings. Construction and demolition debris is delivered to the site via commercial roll-off trucks carrying 12 to 40 cubic yard containers or by way of the public or contractors using their own transport vehicles. The hours of operation for the site are 7:30 A.M. to 5:00 P.M. on weekdays and 7:30 A.M. to 12:00 P.M. on Saturdays.

Traffic Generation

Traffic generated by the site was collected via a peak period count conducted on Thursday, September 25th, 2008. A daily count was also conducted by the owner on Monday, September 22nd, 2008. Based on these counts, approximately 3 vehicle trips were generated during the AM peak hour, 4 vehicle trips were generated during the PM peak hour, and 50 daily trips were generated. Based on discussions with the site owner, these volumes were lower than normal due to a current slowdown in the housing construction market in the area. Future traffic into the site is expected to increase as the building construction market rebounds. As a result, and to be

conservative for this analysis, the future analysis reflects 25 A.M. and 15 P.M. total trips associated with the site which is representative of approximately 200 tons of construction debris per day.

The following table summarizes the counted and projected daily and peak hour (between 7:00 to 9:00 A.M. and 4:00 to 6:00 P.M.) trips to be generated by this development.

Table 1: Transfer Station Trip Generation Estimates

Scenario	Daily	A.M. Peak			P.M. Peak		
		Enter	Exit	Total	Enter	Exit	Total
Obtained from existing traffic count	50	2	1	3	2	2	4
Potential future traffic estimate	250	15	10	25	5	10	15

Existing (2008) Conditions

US 158 is a five-lane arterial roadway along the frontage of the site. Stop control is on the site driveways as well as Peach Tree Road, located directly across from the southern driveway. The existing lane geometrics and peak hour information as collected during the recent count is summarized in Figure 1 on page 3 of this memorandum. Level of service (LOS) as shown in Table 1 indicate that the site driveways are operating at acceptable LOS on all stop-controlled approaches. All analysis results and counts are contained in the Appendix.

Future (2009) Conditions

Future conditions were assessed for 2009, the projected year of operations under the renewed special use permit. A three-percent growth rate was applied uniformly to the existing intersection volumes to account for background growth in traffic, resulting in No-Build (2009) volumes. Site traffic was then distributed to the driveways accordingly. Note that 60% of site traffic was directed to the south with 40% estimated to arrive from the north. Most site traffic is estimated to enter via the northern driveway in order to access the scales, but may exit via the northern or southern driveways. Employee, deliveries, and other non-truck traffic trips are expected to predominantly use the southern driveway. The traffic operation summary for this intersection under all scenarios is tabulated in Table 2 below and the analysis results are included in the Appendix.

Table 2: Intersection Level of Service Summary

Intersection	Existing (2008)		No-Build (2009)		Build (2009)	
	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.
US 158 at Driveway #1	WB - A	WB - A	WB - A	WB - A	WB - B	WB - B
US 158 at Driveway #2/ Peach Tree Road (SR 1168)	WB - B	WB - B	WB - B	WB - B	WB - B	WB - C

The traffic analysis results show that the transfer station has only a minor impact on US 158 and that both driveways operate at acceptable levels of services. Under future conditions, the minor queues created will be by vehicles exiting the site and will be contained within the site's driveway area and not impact the heavy flow of traffic along US 158.

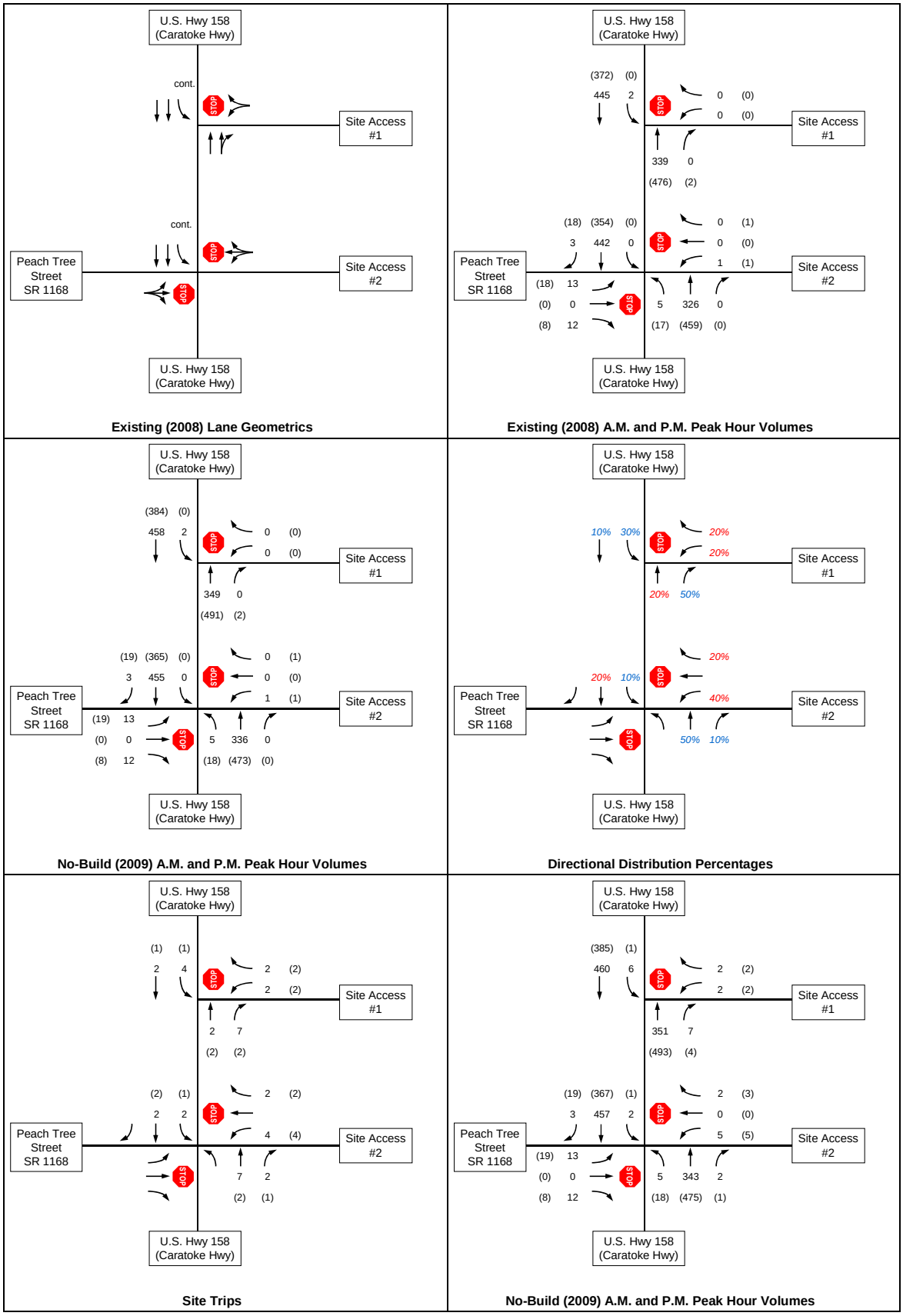


Figure 1: Intersection Volume Data

APPENDIX

GENERAL ASSEMBLY OF NORTH CAROLINA
SESSION 2007

SESSION LAW 2007-550
SENATE BILL 1492

"§ 130A-295.5. Traffic study required for certain solid waste management facilities.

(a) An applicant for a permit for a sanitary landfill or for a transfer station shall conduct a traffic study of the impacts of the proposed facility. The Department shall include as a condition of a permit for a sanitary landfill or for a transfer station a requirement that the permit holder mitigate adverse impacts identified by the traffic study. The study shall include all of the following at a minimum:

(1) Identification of routes from the nearest limited access highway used to access the proposed facility.

(2) Daily and hourly traffic volumes that will result along each approach route between the nearest limited access highway and the proposed facility.

(3) A map identifying land uses located along the identified approach routes, including, but not limited to, residential, commercial, industrial development, and agricultural operations. The map shall identify residences, schools, hospitals, nursing homes, and other significant buildings that front the approach routes.

(4) Identification of locations on approach routes where road conditions are inadequate to handle the increased traffic associated with the proposed facility and a description of the mitigation measures proposed by the applicant to address the conditions.

(5) A description of the potential adverse impacts of increased traffic associated with the proposed facility and the mitigation measures proposed by the applicant to address these impacts.

(6) An analysis of the impact of any increase in freight traffic on railroads and waterways.

(b) An applicant for a permit for a sanitary landfill or for a transfer station may satisfy the requirements of subsection (a) of this section by obtaining a certification from the Division Engineer of the Department of Transportation that the proposed facility will not have a substantial impact on highway traffic."

Martin/Alexiou/Bryson, PLLC
4000 WestChase Boulevard, Suite 530
Raleigh, North Carolina 27607
p: 919.829.0328 f: 919.829.0329

File Name : US 156-Site Driveways
Site Code : 00000001
Start Date : 9/25/2008
Page No : 1

Groups Printed- All Vehicles

	US 158 Southbound				Site Driveways Westbound				US 158 Northbound				Peach Tree St (SR 1168) Eastbound						
Start Time	Left	Thru	Right	Trks	Left	Thru	Right	Trks	Left	Thru	Right	Trks	Left	Thru	Right	Trks	Exclu. Total	Inclu. Total	Int. Total
07:00 AM	0	79	2	9	0	0	0	0	1	46	0	2	1	0	3	0	11	132	143
07:15 AM	0	92	0	7	0	0	0	0	0	58	0	2	1	0	1	0	9	152	161
07:30 AM	1	119	0	7	0	0	0	0	1	78	0	4	1	0	2	0	11	202	213
07:45 AM	1	103	0	14	0	0	0	0	0	84	0	3	3	0	1	0	17	192	209
Total	2	393	2	37	0	0	0	0	2	266	0	11	6	0	7	0	48	678	726
08:00 AM	0	98	2	6	1	0	0	0	3	85	0	4	5	0	5	0	10	199	209
08:15 AM	0	122	1	11	0	0	0	0	1	79	0	6	4	0	4	0	17	211	228
08:30 AM	0	91	1	9	0	0	0	0	0	79	3	10	1	0	3	0	19	178	197
08:45 AM	0	66	1	6	3	0	0	2	2	82	0	7	2	0	1	0	15	157	172
Total	0	377	5	32	4	0	0	2	6	325	3	27	12	0	13	0	61	745	806
03:30 PM	0	84	3	1	1	0	0	0	3	88	1	9	6	0	2	0	10	188	198
03:45 PM	0	98	4	4	0	0	0	0	3	93	0	3	2	0	3	0	7	203	210
Total	0	182	7	5	1	0	0	0	6	181	1	12	8	0	5	0	17	391	408
04:00 PM	0	78	4	3	0	0	0	0	4	95	0	2	4	0	4	0	5	189	194
04:15 PM	0	115	6	5	0	0	0	0	3	125	0	6	4	0	2	0	11	255	266
04:30 PM	0	76	3	1	0	0	0	0	4	101	0	4	4	0	1	0	5	189	194
04:45 PM	0	85	4	5	0	0	0	0	4	96	0	5	6	0	0	0	10	195	205
Total	0	354	17	14	0	0	0	0	15	417	0	17	18	0	7	0	31	828	859
05:00 PM	0	78	5	1	1	0	1	0	6	135	2	6	4	0	5	0	7	237	244
05:15 PM	0	82	4	2	1	0	1	0	1	136	2	6	2	0	2	0	8	231	239
Grand Total	2	1466	40	91	7	0	2	2	36	1460	8	79	50	0	39	0	172	3110	3282
Apprch %	0.1	97.2	2.7		77.8	0	22.2		2.4	97.1	0.5		56.2	0	43.8				
Total %	0.1	47.1	1.3		0.2	0	0.1		1.2	46.9	0.3		1.6	0	1.3		5.2	94.8	

Martin/Alexiou/Bryson, PLLC
4000 WestChase Boulevard, Suite 530
Raleigh, North Carolina 27607
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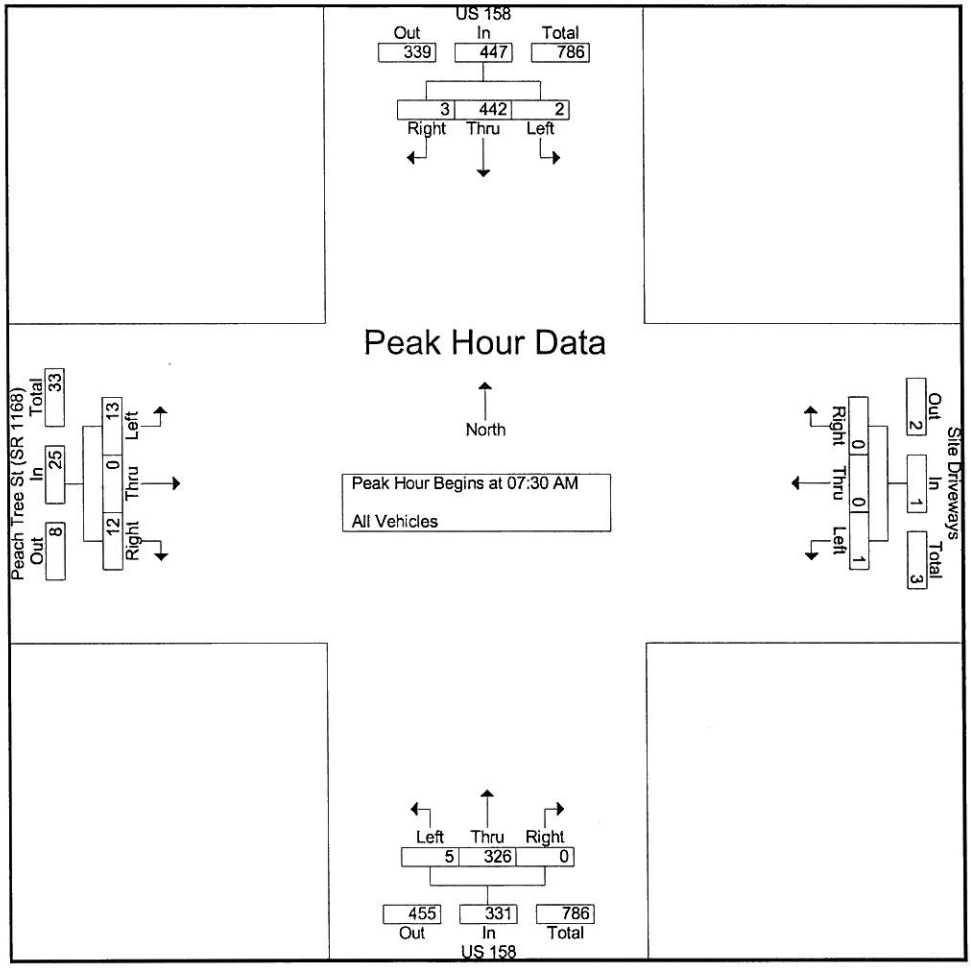
File Name : US 156-Site Driveways
Site Code : 00000001
Start Date : 9/25/2008
Page No : 2

	US 158 Southbound				Site Driveways Westbound				US 158 Northbound				Peach Tree St (SR 1168) Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 11:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:30 AM																	
07:30 AM	1	119	0	120	0	0	0	0	1	78	0	79	1	0	2	3	202
07:45 AM	1	103	0	104	0	0	0	0	0	84	0	84	3	0	1	4	192
08:00 AM	0	98	**2**	100	**1**	0	0	**1**	**3**	**85**	0	**88**	**5**	0	**5**	**10**	199
08:15 AM	0	**122**	1	**123**	0	0	0	0	1	79	0	80	4	0	4	8	**211**
Total Volume	2	442	3	447	1	0	0	1	5	326	0	331	13	0	12	25	804
% App. Total	0.4	98.9	0.7		100	0	0		1.5	98.5	0		52	0	48		
PHF	.500	.906	.375	.909	.250	.000	.000	.250	.417	.959	.000	.940	.650	.000	.600	.625	.953



Martin/Alexiou/Bryson, PLLC
4000 WestChase Boulevard, Suite 530
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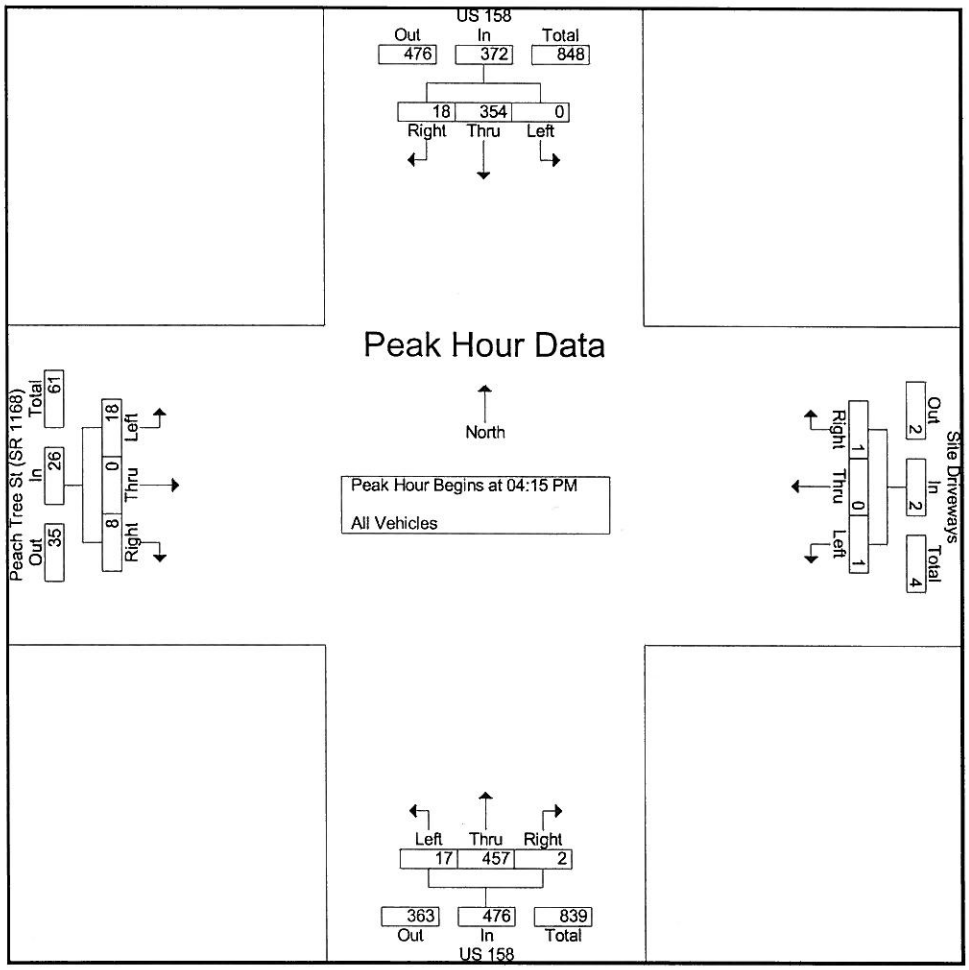
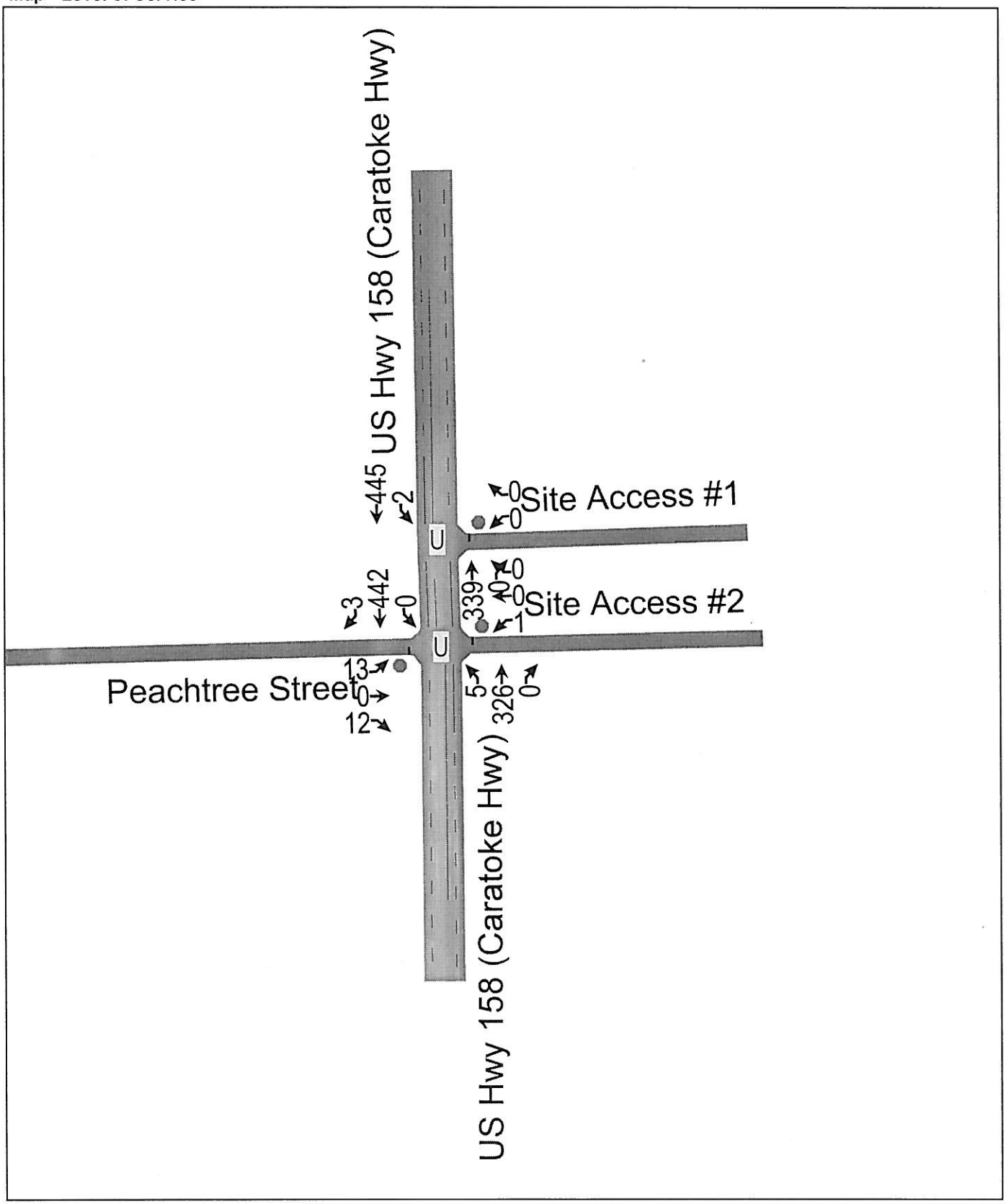
File Name : US 156-Site Driveways
Site Code : 00000001
Start Date : 9/25/2008
Page No : 3

	US 158 Southbound				Site Driveways Westbound				US 158 Northbound				Peach Tree St (SR 1168) Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 12:00 PM to 05:15 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:15 PM																	
04:15 PM	0	**115**	**6**	**121**	0	0	0	0	3	125	0	128	4	0	2	6	**255**
04:30 PM	0	76	3	79	0	0	0	0	4	101	0	105	4	0	1	5	189
04:45 PM	0	85	4	89	0	0	0	0	4	96	0	100	**6**	0	0	6	195
05:00 PM	0	78	5	83	**1**	0	**1**	**2**	**6**	**135**	**2**	**143**	4	0	**5**	**9**	237
Total Volume	0	354	18	372	1	0	1	2	17	457	2	476	18	0	8	26	876
% App. Total	0	95.2	4.8		50	0	50		3.6	96	0.4		69.2	0	30.8		
PHF	.000	.770	.750	.769	.250	.000	.250	.250	.708	.846	.250	.832	.750	.000	.400	.722	.859




US Hwy 158 (Caratoke Hwy)
445
2
0
0
Site Access #1
C
3
442
0
339
0
0
0
Site Access #2
1
C
Peachtree Street
13
0
12
5
326
0
US Hwy 158 (Caratoke Hwy)

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Volume (veh/h)	0	0	339	0	2	445
Sign Control	Stop		Free			Free
Grade	0%		0%			0%
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90
Hourly flow rate (vph)	0	0	377	0	2	494
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type			TWLTL			TWLTL
Median storage veh)			2			2
Upstream signal (ft)						
pX, platoon unblocked						
vC, conflicting volume	628	188			377	
vC1, stage 1 conf vol	377					
vC2, stage 2 conf vol	252					
vCu, unblocked vol	628	188			377	
tC, single (s)	7.8	7.9			5.1	
tC, 2 stage (s)	6.8					
tF (s)	4.0	3.8			2.7	
p0 queue free %	100	100			100	
cM capacity (veh/h)	480	691			898	

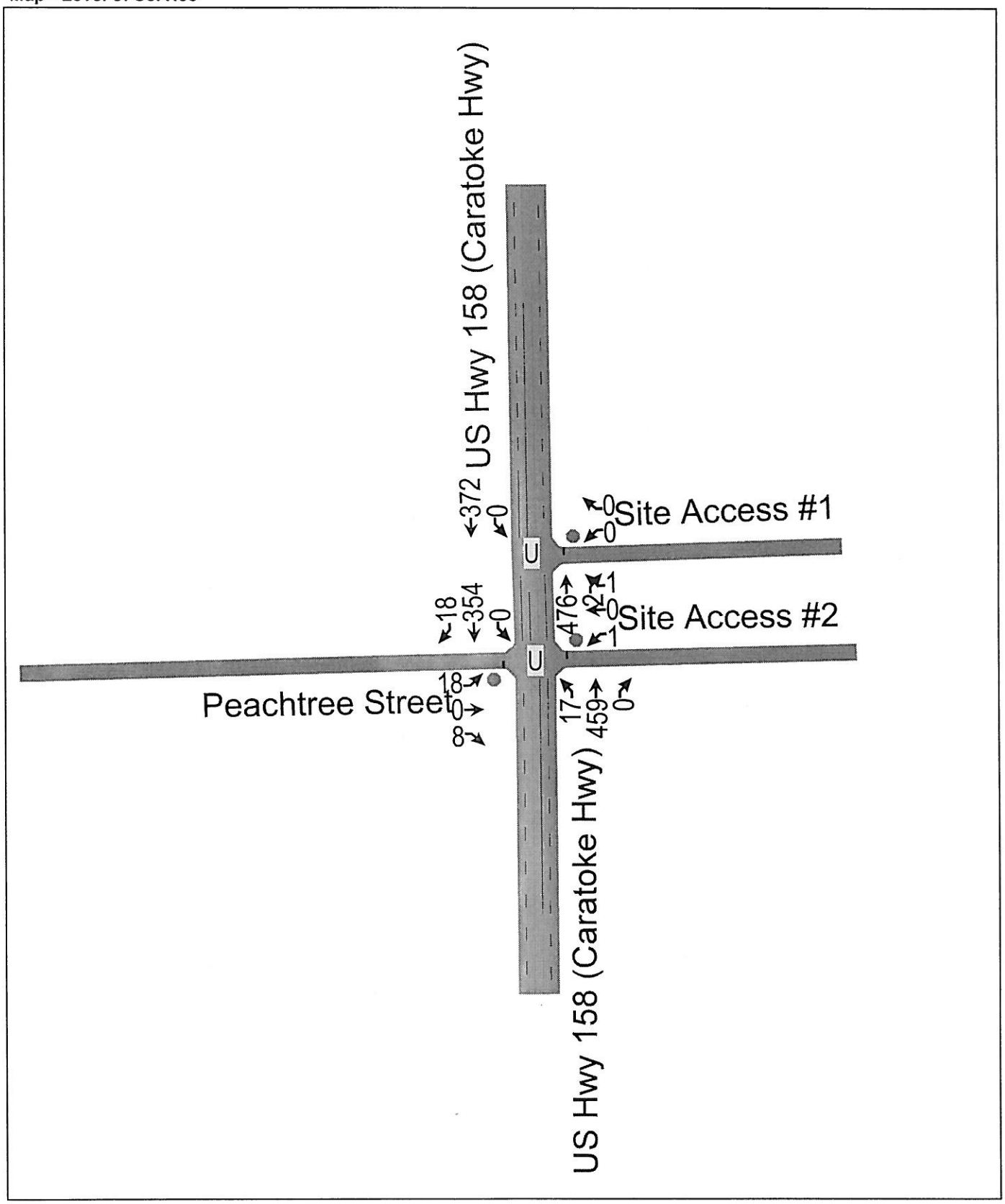
Direction, Lane #	WB 1	NB 1	NB 2	SB 1	SB 2	SB 3
Volume Total	0	251	126	2	247	247
Volume Left	0	0	0	2	0	0
Volume Right	0	0	0	0	0	0
cSH	1700	1700	1700	898	1700	1700
Volume to Capacity	0.00	0.15	0.07	0.00	0.15	0.15
Queue Length 95th (ft)	0	0	0	0	0	0
Control Delay (s)	0.0	0.0	0.0	9.0	0.0	0.0
Lane LOS	A			A		
Approach Delay (s)	0.0	0.0		0.0		
Approach LOS	A					

Intersection Summary			
Average Delay	0.0		
Intersection Capacity Utilization	15.6%	ICU Level of Service	A
Analysis Period (min)	15		

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	13	0	12	1	0	0	5	326	0	0	442	3
Sign Control		Stop			Stop			Free			Free	
Grade		0%			0%			0%			0%	
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Hourly flow rate (vph)	14	0	13	1	0	0	6	362	0	0	491	3
Pedestrians												
Lane Width (ft)												
Walking Speed (ft/s)												
Percent Blockage												
Right turn flare (veh)												
Median type								TWLTL			TWLTL	
Median storage veh)								2			2	
Upstream signal (ft)												
pX, platoon unblocked												
vC, conflicting volume	685	866	247	632	868	181	494			362		
vC1, stage 1 conf vol	493	493		373	373							
vC2, stage 2 conf vol	192	373		259	494							
vCu, unblocked vol	685	866	247	632	868	181	494			362		
tC, single (s)	7.6	6.6	7.0	8.5	7.5	7.9	4.2			5.1		
tC, 2 stage (s)	6.6	5.6		7.5	6.5							
tF (s)	3.6	4.0	3.4	4.0	4.5	3.8	2.2			2.7		
p0 queue free %	97	100	98	100	100	100	99			100		
cM capacity (veh/h)	485	461	744	439	371	699	1045			911		

Direction, Lane #	EB 1	WB 1	NB 1	NB 2	NB 3	SB 1	SB 2	SB 3
Volume Total	28	1	6	241	121	0	327	167
Volume Left	14	1	6	0	0	0	0	0
Volume Right	13	0	0	0	0	0	0	3
cSH	583	439	1045	1700	1700	1700	1700	1700
Volume to Capacity	0.05	0.00	0.01	0.14	0.07	0.00	0.19	0.10
Queue Length 95th (ft)	4	0	0	0	0	0	0	0
Control Delay (s)	11.5	13.2	8.5	0.0	0.0	0.0	0.0	0.0
Lane LOS	B	B	A					
Approach Delay (s)	11.5	13.2	0.1			0.0		
Approach LOS	B	B						

Intersection Summary				
Average Delay	0.4			
Intersection Capacity Utilization	22.3%	ICU Level of Service		A
Analysis Period (min)	15			


US Hwy 158 (Caratoke Hwy)
372
0
0
0
Site Access #1
C
18
354
0
476
2
1
0
Site Access #2
1
C
Peachtree Street
18
0
8
17
459
0
US Hwy 158 (Caratoke Hwy)

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Volume (veh/h)	0	0	476	2	0	372
Sign Control	Stop		Free			Free
Grade	0%		0%			0%
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90
Hourly flow rate (vph)	0	0	529	2	0	413
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type			TWLTL			TWLTL
Median storage veh)			2			2
Upstream signal (ft)						
pX, platoon unblocked						
vC, conflicting volume	737	266			531	
vC1, stage 1 conf vol	530					
vC2, stage 2 conf vol	207					
vCu, unblocked vol	737	266			531	
tC, single (s)	7.8	7.9			5.1	
tC, 2 stage (s)	6.8					
tF (s)	4.0	3.8			2.7	
p0 queue free %	100	100			100	
cM capacity (veh/h)	409	607			762	

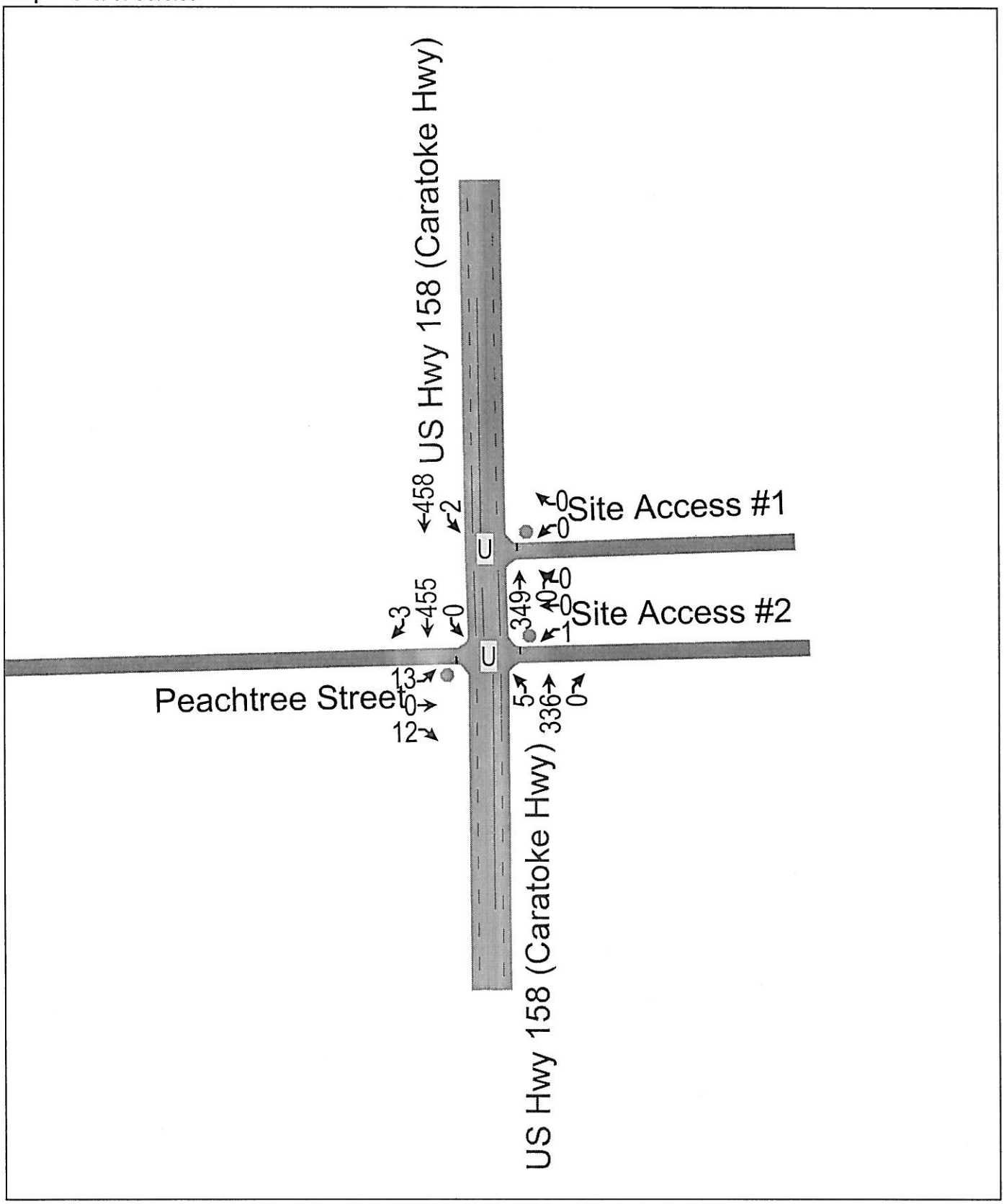
Direction, Lane #	WB 1	NB 1	NB 2	SB 1	SB 2	SB 3
Volume Total	0	353	179	0	207	207
Volume Left	0	0	0	0	0	0
Volume Right	0	0	2	0	0	0
cSH	1700	1700	1700	1700	1700	1700
Volume to Capacity	0.00	0.21	0.11	0.00	0.12	0.12
Queue Length 95th (ft)	0	0	0	0	0	0
Control Delay (s)	0.0	0.0	0.0	0.0	0.0	0.0
Lane LOS	A					
Approach Delay (s)	0.0	0.0		0.0		
Approach LOS	A					

Intersection Summary			
Average Delay	0.0		
Intersection Capacity Utilization	16.6%	ICU Level of Service	A
Analysis Period (min)	15		

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	18	0	8	1	0	1	17	459	0	0	354	18
Sign Control		Stop			Stop			Free			Free	
Grade		0%			0%			0%			0%	
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Hourly flow rate (vph)	20	0	9	1	0	1	19	510	0	0	393	20
Pedestrians												
Lane Width (ft)												
Walking Speed (ft/s)												
Percent Blockage												
Right turn flare (veh)												
Median type								TWLTL			TWLTL	
Median storage veh)								2			2	
Upstream signal (ft)												
pX, platoon unblocked												
vC, conflicting volume	697	951	207	753	961	255	413			510		
vC1, stage 1 conf vol	403	403		548	548							
vC2, stage 2 conf vol	294	548		206	413							
vCu, unblocked vol	697	951	207	753	961	255	413			510		
tC, single (s)	7.6	6.6	7.0	8.5	7.5	7.9	4.2			5.1		
tC, 2 stage (s)	6.6	5.6		7.5	6.5							
tF (s)	3.6	4.0	3.4	4.0	4.5	3.8	2.2			2.7		
p0 queue free %	96	100	99	100	100	100	98			100		
cM capacity (veh/h)	507	430	790	353	339	617	1121			779		

Direction, Lane #	EB 1	WB 1	NB 1	NB 2	NB 3	SB 1	SB 2	SB 3
Volume Total	29	2	19	340	170	0	262	151
Volume Left	20	1	19	0	0	0	0	0
Volume Right	9	1	0	0	0	0	0	20
cSH	570	450	1121	1700	1700	1700	1700	1700
Volume to Capacity	0.05	0.00	0.02	0.20	0.10	0.00	0.15	0.09
Queue Length 95th (ft)	4	0	1	0	0	0	0	0
Control Delay (s)	11.7	13.0	8.3	0.0	0.0	0.0	0.0	0.0
Lane LOS	B	B	A					
Approach Delay (s)	11.7	13.0	0.3			0.0		
Approach LOS	B	B						

Intersection Summary				
Average Delay	0.5			
Intersection Capacity Utilization	24.1%	ICU Level of Service		A
Analysis Period (min)	15			


US Hwy 158 (Caratoke Hwy)
458
2
0
0
Site Access #1
C
3
455
0
349
0
0
0
1
Site Access #2
C
13
0
12
Peachtree Street
5
336
0
US Hwy 158 (Caratoke Hwy)

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Volume (veh/h)	0	0	349	0	2	458
Sign Control	Stop		Free			Free
Grade	0%		0%			0%
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90
Hourly flow rate (vph)	0	0	388	0	2	509
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type			TWLTL			TWLTL
Median storage veh)			2			2
Upstream signal (ft)						
pX, platoon unblocked						
vC, conflicting volume	647	194			388	
vC1, stage 1 conf vol	388					
vC2, stage 2 conf vol	259					
vCu, unblocked vol	647	194			388	
tC, single (s)	7.8	7.9			5.1	
tC, 2 stage (s)	6.8					
tF (s)	4.0	3.8			2.7	
p0 queue free %	100	100			100	
cM capacity (veh/h)	472	685			887	

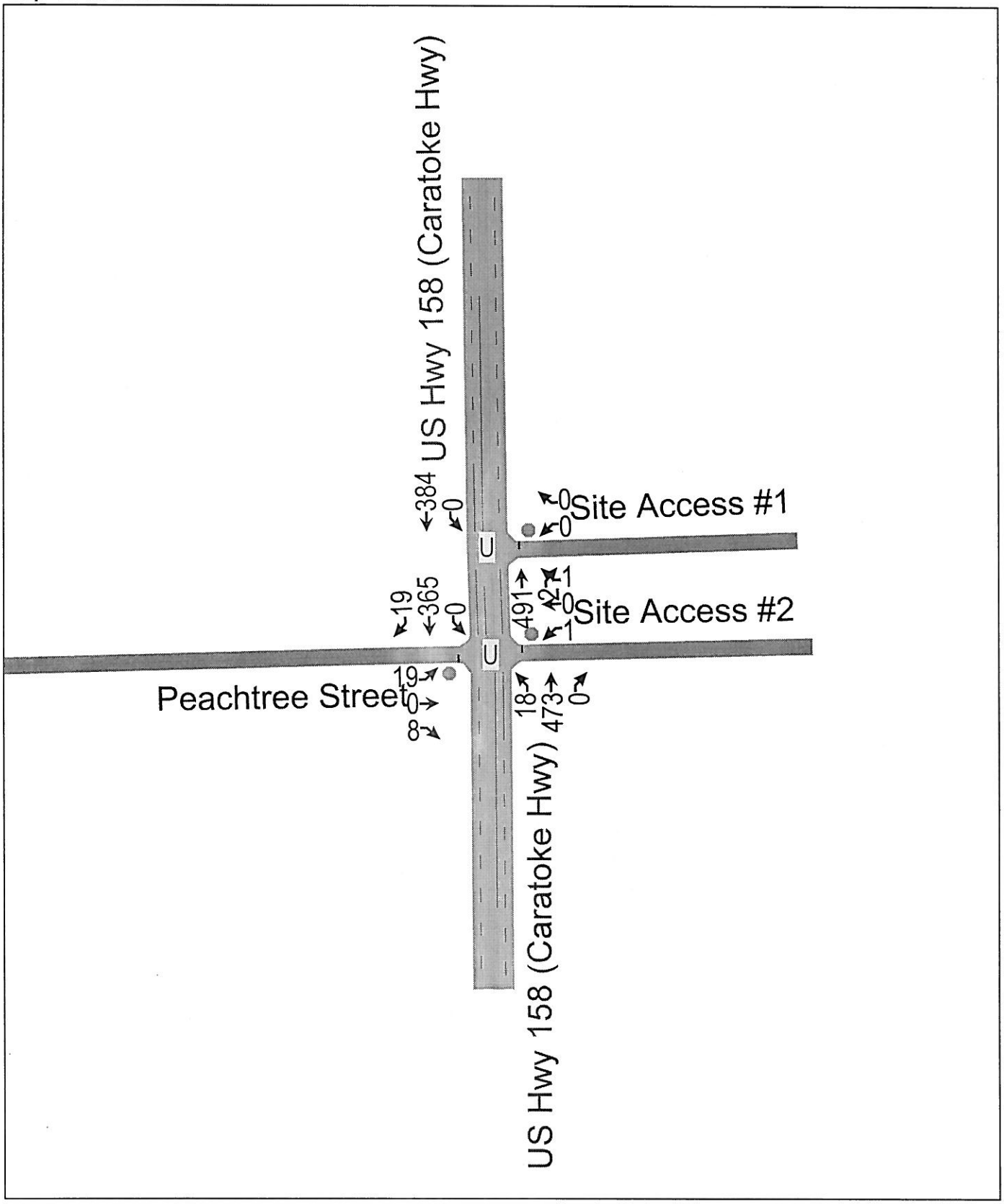
Direction, Lane #	WB 1	NB 1	NB 2	SB 1	SB 2	SB 3
Volume Total	0	259	129	2	254	254
Volume Left	0	0	0	2	0	0
Volume Right	0	0	0	0	0	0
cSH	1700	1700	1700	887	1700	1700
Volume to Capacity	0.00	0.15	0.08	0.00	0.15	0.15
Queue Length 95th (ft)	0	0	0	0	0	0
Control Delay (s)	0.0	0.0	0.0	9.1	0.0	0.0
Lane LOS	A			A		
Approach Delay (s)	0.0	0.0		0.0		
Approach LOS	A					

Intersection Summary			
Average Delay	0.0		
Intersection Capacity Utilization	16.0%	ICU Level of Service	A
Analysis Period (min)	15		

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	13	0	12	1	0	0	5	336	0	0	455	3
Sign Control		Stop			Stop			Free			Free	
Grade		0%			0%			0%			0%	
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Hourly flow rate (vph)	14	0	13	1	0	0	6	373	0	0	506	3
Pedestrians												
Lane Width (ft)												
Walking Speed (ft/s)												
Percent Blockage												
Right turn flare (veh)												
Median type								TWLTL			TWLTL	
Median storage veh)								2			2	
Upstream signal (ft)												
pX, platoon unblocked												
vC, conflicting volume	705	892	254	651	893	187	509			373		
vC1, stage 1 conf vol	507	507		384	384							
vC2, stage 2 conf vol	198	384		266	509							
vCu, unblocked vol	705	892	254	651	893	187	509			373		
tC, single (s)	7.6	6.6	7.0	8.5	7.5	7.9	4.2			5.1		
tC, 2 stage (s)	6.6	5.6		7.5	6.5							
tF (s)	3.6	4.0	3.4	4.0	4.5	3.8	2.2			2.7		
p0 queue free %	97	100	98	100	100	100	99			100		
cM capacity (veh/h)	476	453	736	430	364	693	1032			901		

Direction, Lane #	EB 1	WB 1	NB 1	NB 2	NB 3	SB 1	SB 2	SB 3
Volume Total	28	1	6	249	124	0	337	172
Volume Left	14	1	6	0	0	0	0	0
Volume Right	13	0	0	0	0	0	0	3
cSH	573	430	1032	1700	1700	1700	1700	1700
Volume to Capacity	0.05	0.00	0.01	0.15	0.07	0.00	0.20	0.10
Queue Length 95th (ft)	4	0	0	0	0	0	0	0
Control Delay (s)	11.6	13.4	8.5	0.0	0.0	0.0	0.0	0.0
Lane LOS	B	B	A					
Approach Delay (s)	11.6	13.4	0.1			0.0		
Approach LOS	B	B						

Intersection Summary				
Average Delay	0.4			
Intersection Capacity Utilization	22.7%	ICU Level of Service	A	
Analysis Period (min)	15			


US Hwy 158 (Caratoke Hwy)
384
0
0
0
Site Access #1
U
19
365
0
491
1
2
0
Site Access #2
1
U
Peachtree Street
19
0
8
18
473
0
US Hwy 158 (Caratoke Hwy)

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Volume (veh/h)	0	0	491	2	0	384
Sign Control	Stop		Free			Free
Grade	0%		0%			0%
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90
Hourly flow rate (vph)	0	0	546	2	0	427
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type			TWLTL			TWLTL
Median storage veh)			2			2
Upstream signal (ft)						
pX, platoon unblocked						
vC, conflicting volume	760	274			548	
vC1, stage 1 conf vol	547					
vC2, stage 2 conf vol	213					
vCu, unblocked vol	760	274			548	
tC, single (s)	7.8	7.9			5.1	
tC, 2 stage (s)	6.8					
tF (s)	4.0	3.8			2.7	
p0 queue free %	100	100			100	
cM capacity (veh/h)	400	598			748	

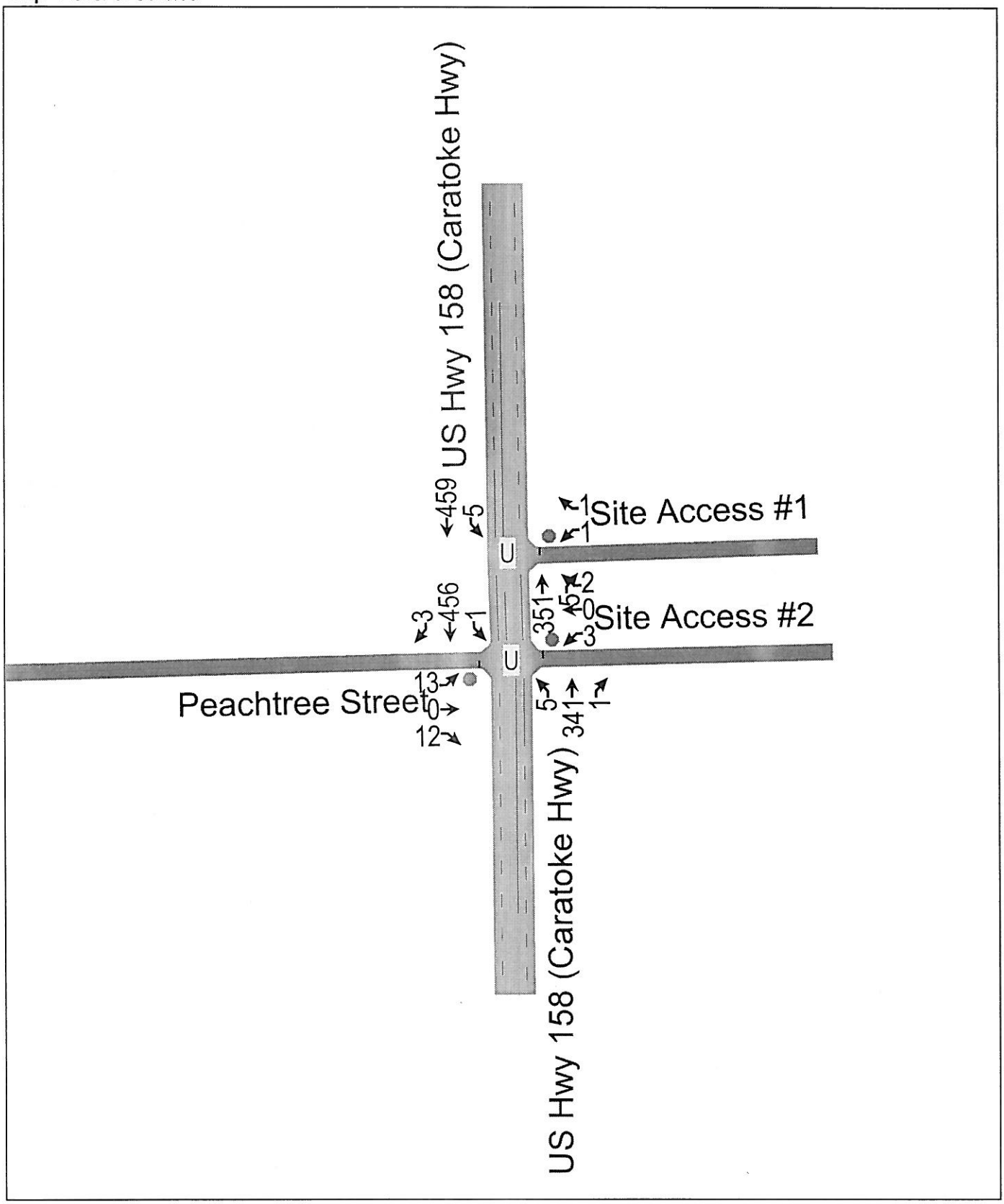
Direction, Lane #	WB 1	NB 1	NB 2	SB 1	SB 2	SB 3
Volume Total	0	364	184	0	213	213
Volume Left	0	0	0	0	0	0
Volume Right	0	0	2	0	0	0
cSH	1700	1700	1700	1700	1700	1700
Volume to Capacity	0.00	0.21	0.11	0.00	0.13	0.13
Queue Length 95th (ft)	0	0	0	0	0	0
Control Delay (s)	0.0	0.0	0.0	0.0	0.0	0.0
Lane LOS	A					
Approach Delay (s)	0.0	0.0		0.0		
Approach LOS	A					

Intersection Summary			
Average Delay	0.0		
Intersection Capacity Utilization	17.0%	ICU Level of Service	A
Analysis Period (min)	15		

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	19	0	8	1	0	1	18	473	0	0	365	19
Sign Control		Stop			Stop			Free			Free	
Grade		0%			0%			0%			0%	
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Hourly flow rate (vph)	21	0	9	1	0	1	20	526	0	0	406	21
Pedestrians												
Lane Width (ft)												
Walking Speed (ft/s)												
Percent Blockage												
Right turn flare (veh)												
Median type								TWLTL			TWLTL	
Median storage veh)								2			2	
Upstream signal (ft)												
pX, platoon unblocked												
vC, conflicting volume	720	982	213	777	992	263	427			526		
vC1, stage 1 conf vol	416	416		566	566							
vC2, stage 2 conf vol	304	566		212	427							
vCu, unblocked vol	720	982	213	777	992	263	427			526		
tC, single (s)	7.6	6.6	7.0	8.5	7.5	7.9	4.2			5.1		
tC, 2 stage (s)	6.6	5.6		7.5	6.5							
tF (s)	3.6	4.0	3.4	4.0	4.5	3.8	2.2			2.7		
p0 queue free %	96	100	99	100	100	100	98			100		
cM capacity (veh/h)	497	420	783	343	330	609	1108			766		

Direction, Lane #	EB 1	WB 1	NB 1	NB 2	NB 3	SB 1	SB 2	SB 3
Volume Total	30	2	20	350	175	0	270	156
Volume Left	21	1	20	0	0	0	0	0
Volume Right	9	1	0	0	0	0	0	21
cSH	557	439	1108	1700	1700	1700	1700	1700
Volume to Capacity	0.05	0.01	0.02	0.21	0.10	0.00	0.16	0.09
Queue Length 95th (ft)	4	0	1	0	0	0	0	0
Control Delay (s)	11.8	13.2	8.3	0.0	0.0	0.0	0.0	0.0
Lane LOS	B	B	A					
Approach Delay (s)	11.8	13.2	0.3			0.0		
Approach LOS	B	B						

Intersection Summary				
Average Delay	0.5			
Intersection Capacity Utilization	25.0%	ICU Level of Service		A
Analysis Period (min)	15			


US Hwy 158 (Caratoke Hwy)
459
5
1
1
Site Access #1
3
456
1
2
5
0
351
3
Site Access #2
Peachtree Street
13
0
12
5
341
1
US Hwy 158 (Caratoke Hwy)

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Volume (veh/h)	1	1	351	5	5	459
Sign Control	Stop		Free			Free
Grade	0%		0%			0%
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90
Hourly flow rate (vph)	1	1	390	6	6	510
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type			TWLTL			TWLTL
Median storage veh)			2			2
Upstream signal (ft)						
pX, platoon unblocked						
vC, conflicting volume	659	198			396	
vC1, stage 1 conf vol	393					
vC2, stage 2 conf vol	266					
vCu, unblocked vol	659	198			396	
tC, single (s)	7.8	7.9			5.1	
tC, 2 stage (s)	6.8					
tF (s)	4.0	3.8			2.7	
p0 queue free %	100	100			99	
cM capacity (veh/h)	467	680			880	

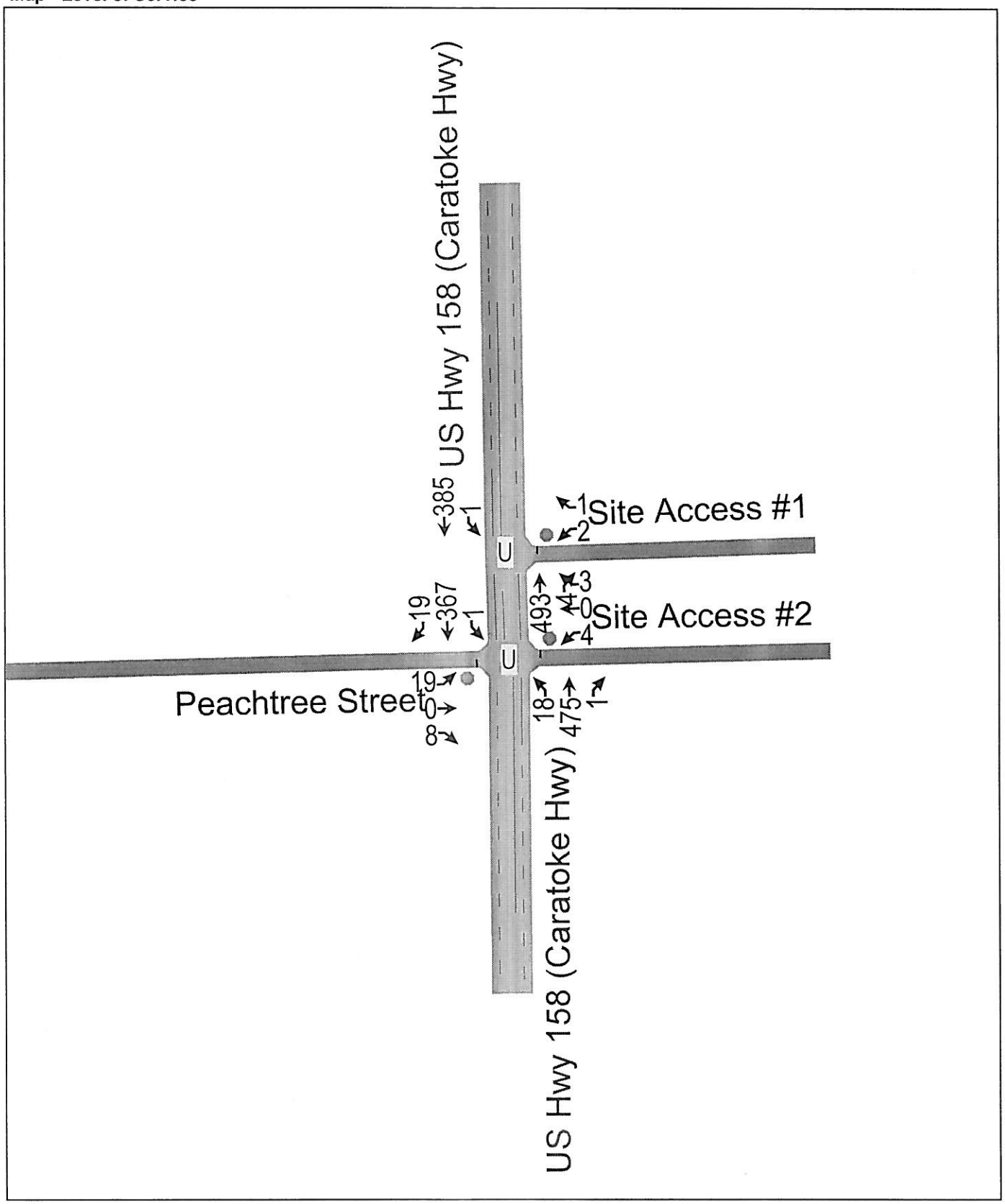
Direction, Lane #	WB 1	NB 1	NB 2	SB 1	SB 2	SB 3
Volume Total	2	260	136	6	255	255
Volume Left	1	0	0	6	0	0
Volume Right	1	0	6	0	0	0
cSH	554	1700	1700	880	1700	1700
Volume to Capacity	0.00	0.15	0.08	0.01	0.15	0.15
Queue Length 95th (ft)	0	0	0	0	0	0
Control Delay (s)	11.5	0.0	0.0	9.1	0.0	0.0
Lane LOS	B			A		
Approach Delay (s)	11.5	0.0		0.1		
Approach LOS	B					

Intersection Summary			
Average Delay	0.1		
Intersection Capacity Utilization	22.7%	ICU Level of Service	A
Analysis Period (min)	15		

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	13	0	12	3	0	2	5	341	1	1	456	3
Sign Control		Stop			Stop			Free			Free	
Grade		0%			0%			0%			0%	
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Hourly flow rate (vph)	14	0	13	3	0	2	6	379	1	1	507	3
Pedestrians												
Lane Width (ft)												
Walking Speed (ft/s)												
Percent Blockage												
Right turn flare (veh)												
Median type								TWLTL			TWLTL	
Median storage veh)								2			2	
Upstream signal (ft)												
pX, platoon unblocked												
vC, conflicting volume	713	902	255	659	903	190	510			380		
vC1, stage 1 conf vol	511	511		391	391							
vC2, stage 2 conf vol	203	391		269	512							
vCu, unblocked vol	713	902	255	659	903	190	510			380		
tC, single (s)	7.6	6.6	7.0	8.5	7.5	7.9	4.2			5.1		
tC, 2 stage (s)	6.6	5.6		7.5	6.5							
tF (s)	3.5	4.0	3.3	4.0	4.5	3.8	2.2			2.7		
p0 queue free %	97	100	98	99	100	100	99			100		
cM capacity (veh/h)	476	453	741	426	361	689	1044			894		

Direction, Lane #	EB 1	WB 1	NB 1	NB 2	NB 3	SB 1	SB 2	SB 3
Volume Total	28	6	6	253	127	1	338	172
Volume Left	14	3	6	0	0	1	0	0
Volume Right	13	2	0	0	1	0	0	3
cSH	575	503	1044	1700	1700	894	1700	1700
Volume to Capacity	0.05	0.01	0.01	0.15	0.07	0.00	0.20	0.10
Queue Length 95th (ft)	4	1	0	0	0	0	0	0
Control Delay (s)	11.6	12.2	8.5	0.0	0.0	9.0	0.0	0.0
Lane LOS	B	B	A			A		
Approach Delay (s)	11.6	12.2	0.1			0.0		
Approach LOS	B	B						

Intersection Summary				
Average Delay	0.5			
Intersection Capacity Utilization	22.7%	ICU Level of Service	A	
Analysis Period (min)	15			


US Hwy 158 (Caratoke Hwy)
385
1
19
367
1
19
0
8
Peachtree Street
U
U
1
2
Site Access #1
493
4
3
0
4
Site Access #2
18
475
1
US Hwy 158 (Caratoke Hwy)

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Volume (veh/h)	2	1	493	4	1	385
Sign Control	Stop		Free			Free
Grade	0%		0%			0%
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90
Hourly flow rate (vph)	2	1	548	4	1	428
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type			TWLTL			TWLTL
Median storage veh)			2			2
Upstream signal (ft)						
pX, platoon unblocked						
vC, conflicting volume	766	276			552	
vC1, stage 1 conf vol	550					
vC2, stage 2 conf vol	216					
vCu, unblocked vol	766	276			552	
tC, single (s)	7.8	7.9			5.1	
tC, 2 stage (s)	6.8					
tF (s)	4.0	3.8			2.7	
p0 queue free %	99	100			100	
cM capacity (veh/h)	398	596			745	

Direction, Lane #	WB 1	NB 1	NB 2	SB 1	SB 2	SB 3
Volume Total	3	365	187	1	214	214
Volume Left	2	0	0	1	0	0
Volume Right	1	0	4	0	0	0
cSH	447	1700	1700	745	1700	1700
Volume to Capacity	0.01	0.21	0.11	0.00	0.13	0.13
Queue Length 95th (ft)	1	0	0	0	0	0
Control Delay (s)	13.1	0.0	0.0	9.8	0.0	0.0
Lane LOS	B			A		
Approach Delay (s)	13.1	0.0		0.0		
Approach LOS	B					

Intersection Summary			
Average Delay	0.1		
Intersection Capacity Utilization	23.8%	ICU Level of Service	A
Analysis Period (min)	15		

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	19	0	8	4	0	3	18	475	1	1	367	19
Sign Control		Stop			Stop			Free			Free	
Grade		0%			0%			0%			0%	
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Hourly flow rate (vph)	21	0	9	4	0	3	20	528	1	1	408	21
Pedestrians												
Lane Width (ft)												
Walking Speed (ft/s)												
Percent Blockage												
Right turn flare (veh)												
Median type								TWLTL			TWLTL	
Median storage veh)								2			2	
Upstream signal (ft)												
pX, platoon unblocked												
vC, conflicting volume	728	989	214	783	999	264	429			529		
vC1, stage 1 conf vol	421	421		568	568							
vC2, stage 2 conf vol	307	569		215	431							
vCu, unblocked vol	728	989	214	783	999	264	429			529		
tC, single (s)	7.6	6.6	7.0	8.5	7.5	7.9	4.2			5.1		
tC, 2 stage (s)	6.6	5.6		7.5	6.5							
tF (s)	3.6	4.0	3.4	4.0	4.5	3.8	2.2			2.7		
p0 queue free %	96	100	99	99	100	99	98			100		
cM capacity (veh/h)	492	417	781	341	328	608	1106			764		

Direction, Lane #	EB 1	WB 1	NB 1	NB 2	NB 3	SB 1	SB 2	SB 3
Volume Total	30	8	20	352	177	1	272	157
Volume Left	21	4	20	0	0	1	0	0
Volume Right	9	3	0	0	1	0	0	21
cSH	552	420	1106	1700	1700	764	1700	1700
Volume to Capacity	0.05	0.02	0.02	0.21	0.10	0.00	0.16	0.09
Queue Length 95th (ft)	4	1	1	0	0	0	0	0
Control Delay (s)	11.9	13.7	8.3	0.0	0.0	9.7	0.0	0.0
Lane LOS	B	B	A			A		
Approach Delay (s)	11.9	13.7	0.3			0.0		
Approach LOS	B	B						

Intersection Summary				
Average Delay	0.6			
Intersection Capacity Utilization	25.0%	ICU Level of Service		A
Analysis Period (min)	15			

Attachment J

Financial Assurance

RICHARDSON SMITH GARDNER & ASSOCIATES
ENGINEERING & GEOLOGICAL SERVICES

DATE: 20-Dec-10
BY: SAS

Financial Assurance
Soundside Recycling & Materials, Inc.
Engineer's Remedial Cost Estimate

Item No.	Item Description	Unit	Contractor Quantity	Contractor Unit Price	Contractor Total Price	Comments
	Facility Area (Horizontal Plan) ----->	**AC**	**9**			
1.0	**Pre-Remedial Response**			**Subtotal**	**$4,500.00**	
1.1	Coordination, Contracts, and Management	AC	9	$500.00	$4,500.00	Excludes Compost Area
2.0	**Remedial Response Activities**				**$140,250.00**	Ref. 1
2.1	Surveys and Layout	AC	9	$250.00	$2,250.00	RSGA Estimate
2.2	Mobilization, Demobilization, and Project Closeout	AC	9	$500.00	$4,500.00	RSGA Estimate
2.3	Wash Down & Cleanup of the Transfer Station	DY	2	$1,500.00	$3,000.00	Assume single work crew per day.
2.4	Fencing & Concrete Barrier Protection	LS	1	$5,000.00	$5,000.00	Assume close transfer station and place concrete barriers across access road.
2.5	Excess Waste Disposal (C&D & MSW)	TN	200	$52.00	$10,400.00	Five (5) days of waste as specified by NCDENR. at the Atlantic Waste Landfill fee. (including loading and hauling)
2.6	Excess Recycling & Processing Material	CY	2,450	$10.00	$24,500.00	Assume cost of loading and transport, Excludes Engineered Wood Products.
	Excess Product Sales	CY	0	$0.50	$0.00	Assumes cost of loading and spreading.
	Excess Recovery Material	CY	1,380	$10.00	$13,800.00	Assumes cost of loading and transport.
	Excess Land Clearing and Inert Debris Staging Material	CY	6,000	$10.00	$60,000.00	Assume cost of loading and transport.
	Excess Compost Materials	CY	0	$0.50	$0.00	Assumes cost of loadings and spreading.
2.7	Leachate Disposal	GAL	3,000	$0.10	$300.00	Assume cost of loading and Transport.
2.8	Erosion & Sediment Control (grading, silt fence, maintenance, etc.)	AC	9	$500.00	$4,500.00	RSGA Estimate
2.9	Revegetation	AC	8	$1,500.00	$12,000.00	RSGA Estimate
3.0	**Quality Assurance, Certification, & Deed Notation**				**$3,000.00**	
3.1	Engineering and Reporting	LS	1	$2,500.00	$2,500.00	RSGA Estimate
3.2	Surveying and Deed Notation	LS	1	$500.00	$500.00	RSGA Estimate
	Remedial Response Estimate ----->				**$147,750**	
	10% Contingency ----->				**$14,775**	
	Total Estimate ----->				**$162,525** (2010$) (See Note 1)	

Notes:

1. All costs are presented in current dollars and should be increased at an inflation rate of 1.5% if additional review is not performed annually.
2. This ESTIMATE has been prepared for financial assurance purposes only and shall not be considered a replacement for an actual bid from a licensed contractor and is considered acceptable within a +/- 10% of the Total Estimate value.
3. Compost products are assumedto be simplly re-incorporated into the site.

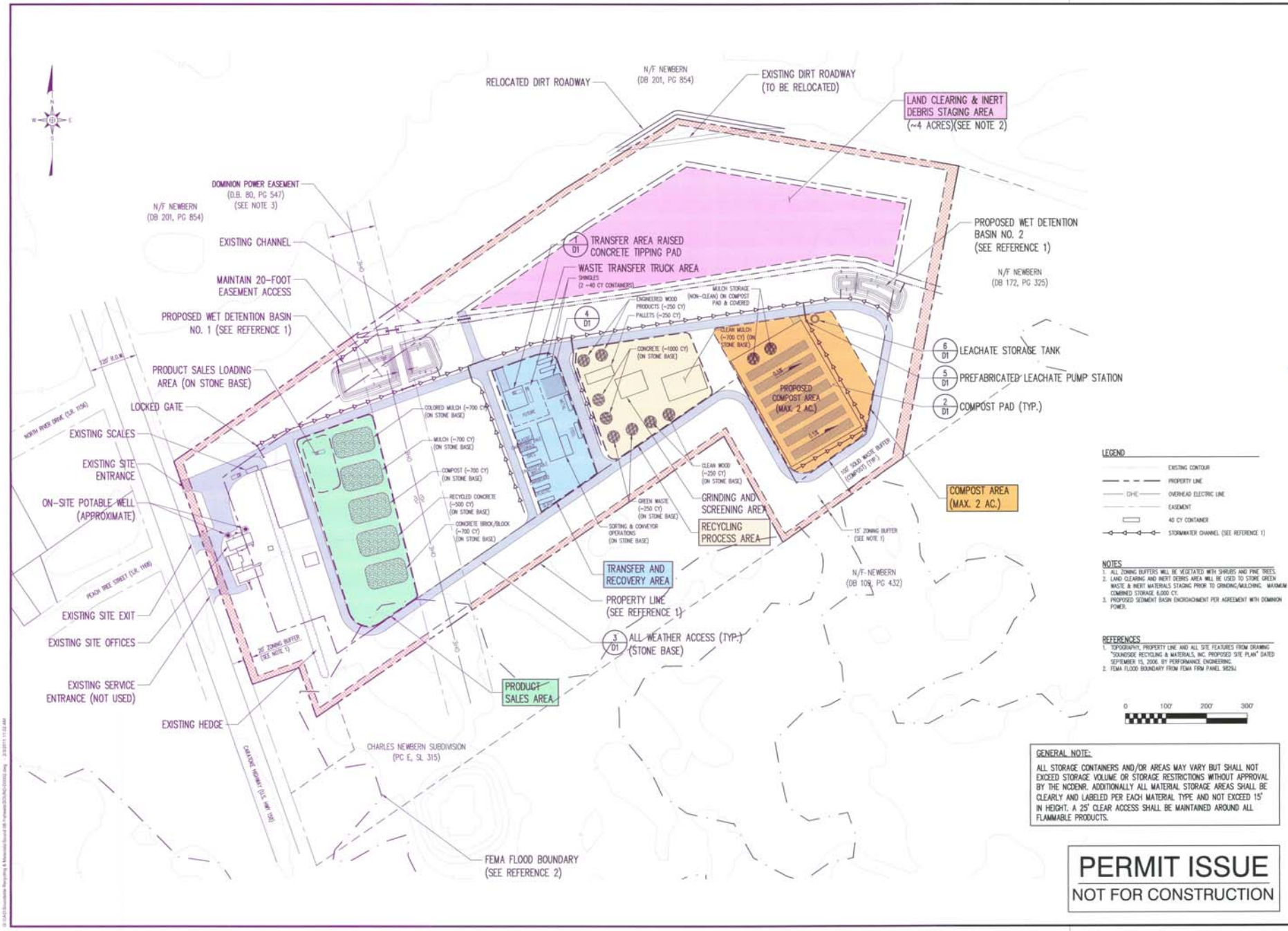
References:

1. Soundside Recycling & Materials, Inc. Permit Application by Richardson Smith Gardner & Associates, Inc dated October 2008.

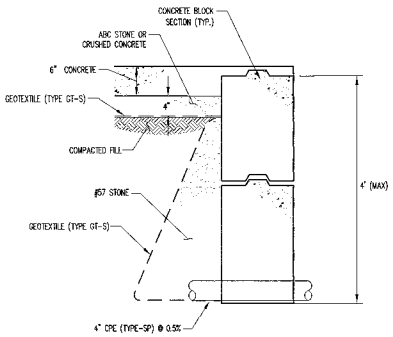
Denotes values calculated in spreadsheet.

Attachment K

Project Drawings

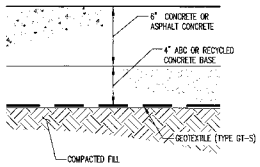

RELOCATED DIRT ROADWAY
N/F NEWBERN (DB 201, PG 854)
EXISTING DIRT ROADWAY (TO BE RELOCATED)
LAND CLEARING & INERT DEBRIS STAGING AREA (~4 ACRES)(SEE NOTE 2)
DOMINION POWER EASEMENT (D.B. 80, PG 547) (SEE NOTE 3)
N/F NEWBERN (DB 201, PG 854)
EXISTING CHANNEL
MAINTAIN 20-FOOT EASEMENT ACCESS
PROPOSED WET DETENTION BASIN NO. 1 (SEE REFERENCE 1)
PRODUCT SALES LOADING AREA (ON STONE BASE)
LOCKED GATE
EXISTING SCALES
EXISTING SITE ENTRANCE
ON-SITE POTABLE WELL (APPROXIMATE)
EXISTING SITE EXIT
EXISTING SITE OFFICES
EXISTING SERVICE ENTRANCE (NOT USED)
EXISTING HEDGE
NORTH RIVER DRIVE (S.R. 1156)
PEACH TREE STREET (S.R. 1108)
CARTONE HIGHWAY (U.S. HWY 70)
CHARLES NEWBERN SUBDIVISION (PC E, SL 315)
FEMA FLOOD BOUNDARY (SEE REFERENCE 2)
1/D1 TRANSFER AREA RAISED CONCRETE TIPPING PAD
WASTE TRANSFER TRUCK AREA
SHINGLES (2 -40 CY CONTAINERS)
ENGINEERED WOOD PRODUCTS (~250 CY)
PALLETS (~250 CY)
MULCH STORAGE (NON-CLEAN) ON COMPOST PAD & COVERED
4/D1
CONCRETE (~1000 CY) (ON STONE BASE)
CLEAN MULCH (~700 CY) (ON STONE BASE)
PROPOSED COMPOST AREA (MAX. 2 AC.)
100' SOLID WASTE BUFFER (COMPOST) (TYP.)
COLORED MULCH (~700 CY) (ON STONE BASE)
MULCH (~700 CY) (ON STONE BASE)
COMPOST (~700 CY) (ON STONE BASE)
RECYCLED CONCRETE (~500 CY) (ON STONE BASE)
CONCRETE BRICK/BLOCK (~700 CY) (ON STONE BASE)
CLEAN WOOD (~250 CY) (ON STONE BASE)
GRINDING AND SCREENING AREA
GREEN WASTE (~250 CY) (ON STONE BASE)
SORTING & CONVEYOR OPERATIONS (ON STONE BASE)
RECYCLING PROCESS AREA
TRANSFER AND RECOVERY AREA
PROPERTY LINE (SEE REFERENCE 1)
3/D1 ALL WEATHER ACCESS (TYP.) (STONE BASE)
PRODUCT SALES AREA
15' ZONING BUFFER (SEE NOTE 1)
N/F NEWBERN (DB 109, PG 432)
COMPOST AREA (MAX. 2 AC.)
6/D1 LEACHATE STORAGE TANK
5/D1 PREFABRICATED LEACHATE PUMP STATION
2/D1 COMPOST PAD (TYP.)
PROPOSED WET DETENTION BASIN NO. 2 (SEE REFERENCE 1)
N/F NEWBERN (DB 172, PG 325)
LEGEND
EXISTING CONTOUR
PROPERTY LINE
OHE OVERHEAD ELECTRIC LINE
EASEMENT
40 CY CONTAINER
STORMWATER CHANNEL (SEE REFERENCE 1)
NOTES
1. ALL ZONING BUFFERS WILL BE VEGETATED WITH SHRUBS AND PINE TREES.
2. LAND CLEARING AND INERT DEBRIS AREA WILL BE USED TO STORE GREEN WASTE & INERT MATERIALS STAGING PRIOR TO GRINDING/MULCHING. MAXIMUM COMBINED STORAGE 6,000 CY.
3. PROPOSED SEDIMENT BASIN ENCROACHMENT PER AGREEMENT WITH DOMINION POWER.
REFERENCES
1. TOPOGRAPHY, PROPERTY LINE AND ALL SITE FEATURES FROM DRAWING "SOUNDSIDE RECYCLING & MATERIALS, INC. PROPOSED SITE PLAN" DATED SEPTEMBER 15, 2006 BY PERFORMANCE ENGINEERING.
2. FEMA FLOOD BOUNDARY FROM FEMA FIRM PANEL 9825J.
0 100' 200' 300'
GENERAL NOTE:
ALL STORAGE CONTAINERS AND/OR AREAS MAY VARY BUT SHALL NOT EXCEED STORAGE VOLUME OR STORAGE RESTRICTIONS WITHOUT APPROVAL BY THE NCDENR. ADDITIONALLY ALL MATERIAL STORAGE AREAS SHALL BE CLEARLY AND LABELED PER EACH MATERIAL TYPE AND NOT EXCEED 15' IN HEIGHT. A 25' CLEAR ACCESS SHALL BE MAINTAINED AROUND ALL FLAMMABLE PRODUCTS.
PERMIT ISSUE
NOT FOR CONSTRUCTION
RICHARDSON SMITH GARDNER & ASSOCIATES
SOUNDSIDE RECYCLING & MATERIALS, INC C&D WASTE TRANSFER & RECYCLING CENTER
SITE PLAN
DESIGNED BY S.A.S.
DRAWN BY J.A.L.
CHECKED BY
PROJECT NO. SOUND 06-1
SCALE AS SHOWN
DATE OCT. 2006
FILE NAME SOUND-D0002
SHEET NO. 1
DRAWING NO. S1

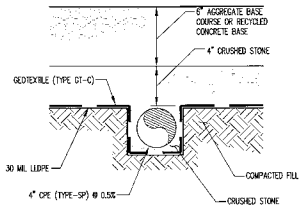
PERMIT ISSUE
NOT FOR CONSTRUCTION



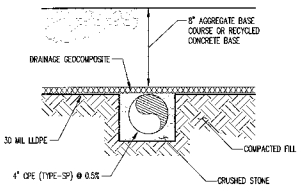
TYPICAL RAISED TRANSFER PAD

DETAIL 1/S1
NOT TO SCALE





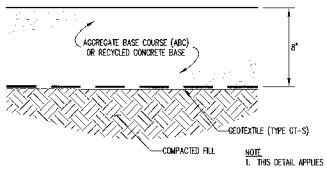
ALTERNATE A



ALTERNATE B

COMPOST PAD SECTIONS

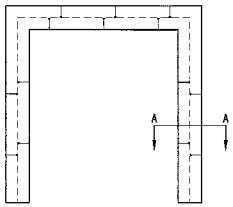
DETAIL 2/S1
NOT TO SCALE

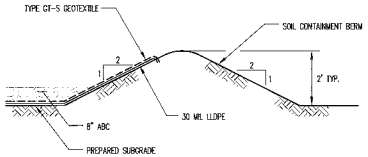


NOTE:
1. THIS DETAIL APPLIES FOR STONE BASE.

ALL-WEATHER ACCESS

DETAIL 3/S1
NOT TO SCALE

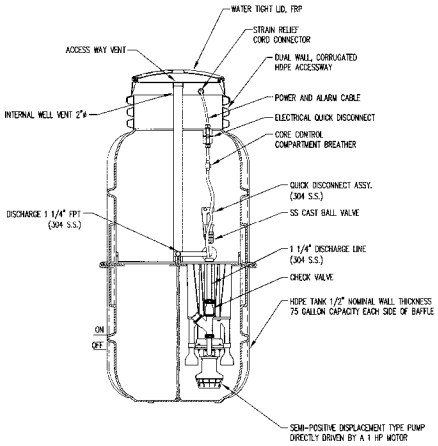




SECTION A-A

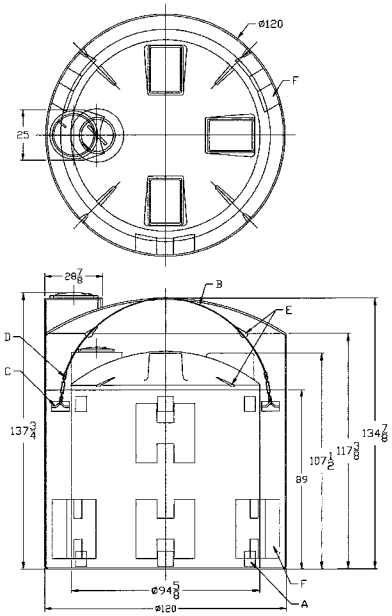
GYPSUM STORAGE AREA

DETAIL 4/S1
NOT TO SCALE



PREFABRICATED LEACHATE PUMP STATION

DETAIL 5/D1
NOT TO SCALE



NOTES
PRIMARY TANK - CHEM-TAINER - TC3000BA WITH 18" MANWAY
SECONDARY TANK - CHEM-TAINER - TC42500A
CAP - CHEM-TAINER - TC8600AF WITH 22" MANWAY
A - 7-3/4 x 7-3/4 PLATE, 16 PLC'S
B - 1/4" VINYL COATED CABLE
C - LIFTING LUG ASSEMBLY 4 PLC'S, SEE DWG #A-120523
D - 12" x 3/8" TURNBUCKLE 4 PLC'S
E - TIE DOWN SLOTS, 4 PLC'S EACH TANK
F - BLOCKS, 4 PLC'S, GENERIC POSITION MAY BE CHANGED DEPENDING ON FITTINGS

LEACHATE STORAGE TANK

DETAIL 6/D1
NOT TO SCALE

REVISION	DATE	NO.

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SEAL

PROJECT TITLE
SOUNDSIDE RECYCLING & MATERIALS, INC
C&D WASTE TRANSFER & RECYCLING CENTER

DRAWING TITLE
DETAILS

DESIGNED BY: B.A.S.	DRAWN BY: J.A.L.
CHECKED BY:	PROJECT NO.: SOUND 06-1
SCALE: AS SHOWN	DATE: OCT. 2009
FILE NAME: SOUND-D0006	
SHEET NO.: 2	DRAWING NO.: D1

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