Subject: Response to Apex Zoning Violation 2-27-09 \_Final\_.pdf - Adobe Acrobat Professional

From: Stacey Smith <stacey@rsgengineers.com>

Date: Thu, 12 Mar 2009 15:06:52 -0400

To: DONNA WILSON < DONNA. WILSON@ncmail.net>

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Stacey A. Smith, P.E.

President, Senior Engineer

Richardson Smith Gardner & Associates, Inc.

Raleigh, North Carolina

www.rsgengineers.com

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Response to Apex Zoning Violation 2-27-09 \_Final\_.pdf

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# SHOTWELL TRANSFER STATION II, INC. (APEX LOCATION) 3209 GRESHAM LAKE ROAD SUITE 114-115 RALEIGH, NC 27615 919-790-1119

February 27, 2009

Ms. Lissa Parrish, CZO

Zoning Compliance Officer

Town of Apex Planning Department

Apex, North Carolina 27502

Re: Notice of Violations and Correction Order

South Wake C&D Transfer Station Wake County P.I.N. # 0742.01-47-6007

Dear Ms. Parrish,

On behalf of Shotwell Transfer Station II, Inc. and Booth Properties, LLC, Shotwell Transfer Station II, Inc. (Shotwell) has prepared this response to the correction order issued on February 16, 2009 (**copy attached**) which was received on February 18, 2009. We appreciate the meeting that was held between Town staff, Mr. Tom Colhoun, and, my representative, Mr. Stacey Smith, P.E. of Richardson Smith Gardner & Associates, Inc., on February 20, 2009 at the town offices. As conveyed during the meeting, Shotwell intends to satisfy all the requirements of the order and to continue the active improvements of the former PCM Construction transfer operations at the site.

The following responses address each comment followed by our proposed corrective action. Please find each comment in *italics* and the associated response below.

#### Comment No. 1

Section 4.2.2 Use Table. You are violating this section in that this site was approved as a Transfer Station for sorting of, and off site disposal of, new construction material only. The processing and disposal of tires, box springs and/or mattresses are not approved products for this site.

#### Response No. 1

It is the intent of Shotwell to operate this facililty as a transfer station as described above. However, as described in the meeting, the operation has elements of recovery of new construction wastes. This recovery includes dumping of the waste in the tipping area and separation of those wastes which can be recycled from those that are transferred. In the case of tires and the mattresses, certain unacceptable wastes are encountered during operations and are placed in separate containers for appropriate transfer and disposal at another facility. At the close of each day, all wastes dumped are placed in containers and will be covered until they are removed from the site.

Additionally, there was some concern regarding the site operations manual. As Mr. Smith explained, the transition of the permit from PCM to Shotwell has been ongoing and we intend to update the site operations manual following issuance of a new solid waste permit at the site. In order to provide the Town due review of our intentions, we have provided a copy (**Attachment A**) of the proposed Operations Manual that will be submitted to the NCDENR Division of Waste Management in the near future.

#### Comment No. 2

Section 4.3.3(F) Recycling Center. You are violating this section in that you have not obtained the required Special Use Permit for adding the operation of Chipping and Mulching and/or crush material (cement and asphaltic/bituminous) to this site.

#### Response No. 2

PCM Construction services was known to have performed these operations historically. However, Shotwell has not performed these activities and does not intend to perform these activities in the future.

#### Comment No. 3

Section 4.3.3(M) Land Clearing and Inert Debris Landfill. You are violating this section in that you have not obtained the required Special Use Permit for operation of the disposal of solid waste generated from Inert Debris such as brick and concrete.

#### Response No. 3

Shotwell has not disposed of any debris or wastes on site. All materials as described in **Response No. 1** are placed in containers or in the case of inert materials (such as brick, concrete or block) is stockpiled at the close of each day until they are transferred to the disposal facility.

#### Comment No. 4

Chapter 10, Article II Mosquito Control. You are violating subsection 10-20 in that tires are being stored in open areas where they may collect water, creating a location(s) in which mosquitoes are likely to breed.

#### Response No. 4

Shotwell understands the concerns of the Town and will place tires, as encountered from time to time, in a typical roll-off container which will be covered to prevent the collection of rain. These containers will be disposed upon reaching capacity at an appropriate disposal facility.

#### Comment No. 5

Chapter Article IV Solid Waste Disposal. You re violating subsection 12-114 in that garbage, litter and other debris is present all over the site and has blown onto adjoining properties. The approved 2001 Operations Plans specified the site would be compliant with this Town Ordinance under plan section 3.3 Housekeeping and Litter Control as stated that facility personnel would police the area throughout the day and at the conclusion of each day for collection and disposal of windblown litter.

#### Response No. 5

Shotwell personnel will police the site on a daily basis and remove any wind blown debris or litter at the close of business each day. I have reviewed this with my staff and we are immediately responding to this situation.

#### Comment No. 6

**Section 312.** You are violating this section in that Vehicle Impact Protection is to be provided for above ground storage tanks. Protection in to include guard posts constructed of steel not less than 4 inches in diameter and filled with concrete three fee (3') deep and at least three feet (3') above ground.

#### Response No. 6

The impact protection barriers (bollards) will be installed within 30 days of this letter per the Town's guidance.

#### Comment No. 7

Section 503.2.3. You are violating this section in that required Fire Apparatus Access Roads are to be maintained to support the imposed load of fire apparatus and shall be surfaced so as to provide all weather driving capabilities.

Ms. Lissa Parrish February 27, 2009 Page 4

#### Response No. 7

Shotwell understands the concerns of the Town and will maintain existing all weather access road around the site to facility emergency response situations upon approval of the revised Exempt Site Plan Application provided as **Attachment B** to this response.

#### Comment No. 8

A permit will need to be obtained from the inspection department to ensure that all building, wiring and plumbing is in compliance with the NC Building, NC Electrical and NC Plumbing Codes in regards to the Recycling Center site. Plans may need to be submitted and approved prior to issuance of a permit.

#### Response No. 8

Shotwell was unaware that the former PCM scalehouse was un-permitted with the Town of Apex. However, we are prepared to bring this structure into compliance with Town ordinances. Upon approval of the Exempt Site Plan Application, we will proceed with obtaining a building permit.

#### Comment No. 9

Remove any and all tire storage / disposal as well as any and all box spring / mattress storage / disposal from the site by 5:00 p.m. on the tenth  $(10^{th})$  day after the date of receipt of this Notice of Violation and Correction Order. Ensure that only approved new construction material is brought to, sorted and disposed of from this site; and

#### Response No. 9

#### See Response No. 1.

#### Comment No. 10

Cease utilization of the site for chipping and mulching; a Special Use Permit is required for this additional use. Remove any and all stockpiles of chipped and mulched material and / or material waiting to be processed currently on site. These materials must by removed by 5:00 p.m on the tenth (10<sup>th</sup>) day after the date of receipt of this Notice of Violation and Correction Order; and

#### Response No. 10

PCM Construction services was known to have performed these operations historically. However, Shotwell has not performed these activities and does not intend to perform these activities in the future.

#### Comment No. 11

Cease utilization of the site for crushing cement and asphaltic / bituminous material for resale from this site; a Special use Permit is required for this additional use. Remove any and all stockpiles of crushed concrete and asphaltic/bituminous materials and/or material waiting to be processed currently on site. These materials must be removed by 5:00 p.m. on the tenth (10<sup>th</sup>) day after the date of receipt of this Notice of Violation and Correction Order; and

#### Response No. 11

PCM Construction services was known to have performed these operations historically. However, Shotwell has not performed these activities and does not intend to perform these activities in the future. Furthermore, as mentioned in **Response No. 1**, the site operations will include some staging of waste materials, but all stockpiles shall be removed at the close of each day and placed in containers.

#### Comment No. 12

Upon receipt of this Notice of Violation and Correction Order, immediately remove all tire storage from this site unless such collection of water is treated so as to effectually prevent such breeding; and

#### Response No. 12

See **Response No. 1** above.

#### Comment No. 13

Upon receipt of this Notice of Violation and Correction Order, immediately clean the site of all windblown litter; ensure the site is kept clean by strictly adhering to the housekeeping procedures specified in the 2001 Operations Plan approved by the Town of Apex; and

#### Response No. 13

Shotwell has completed this task.

#### Comment No. 14

Upon receipt of this Notice of Violation and Correction Order, contact the NCDENR – DWM – Solid Waste Section and report any conditions inconsistent with NC Solid Waste Permit 92-29T. Recent inspections by Town staff revealed several on-site storage and soil erosion and sedimentation control practices that may be inconsistent with the approved 2001 Operations Plan. Inspection photos collected during the inspections have been forwarded to NCDENR DWM staff; and

#### Response No. 14

Shotwell is in correspondence with the NCDENR DWM Solid Waste Specialist, Mr. Bradley Bailey as demonstrated in the email correspondence provided as **Attachment C**.

Furthermore, I have requested a review of the site stormwater measures by RSG. Their comments are provided as **Attachment D**. Shotwell intends to implement these recommendations immediately and will have all site improvements completed within 30 days.

#### Comment No. 15

Upon receipt of this Notice of Violation and Correction Order, contact the NCDENR Division of Water Quality (DWQ) – Surface Water Protection Section. Based on a recent inspection by the DWQ, they have determined this facility is subject to the National Pollutant Discharge Elimination System (NPDES) stormwater discharge requirements; and

#### Response No. 15

NPDES stormwater permits are classified by activity under SIC (Standard Industrial Classification) codes. Transfer operations are not classified and are not included under a general permit. Therefore, the site (transfer operation) is not subject to a NPDES stormwater permit. However, the lumber operation adjacent to the Shotwell operations holds an NCG 21 NPDES Stormwater Permit for Timber operations (un-related to my operation).

#### Comment No. 16

Install Vehicle Impact Protection at all above ground storage tanks by 5:00 p.m. on the tenth  $(10^{th})$  day after the date of receipt of this Notice of Violation and Correction Order. Protection installation is to include but is not limited to guard posts constructed of steel not less than 4 inches in diameter and filled with concrete three feet (3') deep and three feet (3') above ground; and

#### Response No. 16

See **Response No. 6** above.

#### Comment No. 17

Apply all weather driving capabilities surface on the Fire Apparatus Access Road within thirty (30) days of the date of receipt of this Notice of Violation and Correction Order; ensure the road is appropriately maintained; and

Ms. Lissa Parrish February 27, 2009 Page 7

#### Response No. 17

See **Response No. 7** above.

#### Comment No. 18

Submit a permit application along with any applicable plan(s) to obtain a permit for inspection of the site to determine compliance with NC Building, NC Electrical and NC Plumbing Codes with fifteen days of the date of receipt of this Notice of Violation and Correction order.

#### Response No. 18

Showell is prepared to bring this structure into compliance with Town ordinances. Upon approval of the Exempt Site Plan Application, we will proceed with obtaining a building permit.

Ms. Lissa Parrish February 27, 2009 Page 8

Sincerely,

Shotwell Transfer Station II, Inc.

David W. King, Jr.

President

daviddebris@bellsouth.net

#### Attachments

Cc: Bruce Radford, Town Manager

Henry C. Fordham, Jr., Town Attorney

Laurie Hohe, Assistant Town Attorney

Dianne Khin, Planning Director

Steve Yates, Zoning Complance Supervisor

June Cowles, Senior Planner

Bradley Bailey, NCDENR

Jason Watkins, NCDENR

William Booth, Jr., Booth Properties, LLC

Tom Colhoun, Colhoun Real Estate, LLC

Stacey Smith, P.E., Richardson Smith Gardner & Associates, Inc.

File

### Planning and Community Development

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Post Office Box 250 Apex, NC 27502 Phone: (919) 249-3426 Fax: (919) 249-3338 www.apexnc.org



Dianne Khin, AICP, Planning Director

Bonnie Brock, Development Specialist
Will Brown, GIS Technician
June Cowles, Senior Planner
Brenda Culbertson, Planning Technician
Reed Huegerich, Transportation Planner
Cliff Joyner, Zoning Compliance Officer
Deborah Judd, Administrative Specialist
Lissa Parrish, CZO, Zoning Compliance Officer
Lauren Simmons, Planner
Brendie Vega Mkhwanazi, AICP, Principal Planner
Steve Yates, CZO, Zoning Compliance Supervisor

#### NOTICE OF VIOLATION AND CORRECTION ORDER

February 16, 2009 Page 1 of 5

Booth Properties, LLC Williams J. Booth, Jr., Registered Agent P. O. Box 156 Apex, NC 27502 Certified Mail # 7008 1300 0000 7791 6148 Return Receipt Requested

#### AND

Shotwell Transfer Station II, Inc. David W. King, Jr., Registered Agent 3209 Gresham Lake Road, Suite 114 Raleigh, NC 27615 Certified Mail # 7008 1300 0000 7791 6155 Return Receipt Requested

RE: Violations at South Wake C&D Transfer Station, 1402 N. Salem Street, Apex NC (Identification utilized as 1506 N. Salem Street, Apex NC)
Wake County P.I.N. # 0742.01-47-6007
Zoned: LI (Light Industrial)

Mr. King,

In 2001 Bass, Nixon and Kennedy, Inc. prepared an Operations Plan for PCM Apex C&D Transfer Facility on N. Salem Street in Apex NC for review and approval by the Town of Apex. Since that approval, a revised Operations Manual dated July 2008 was prepared by Richardson Smith Gardner & Associates on behalf of Shotwell Transfer Station II, Inc. and submitted to the North Carolina Department of Environment and Natural Resources (NCDENR), Division of Waste Management (DWM) – Solid Waste Section. This updated manual submitted to Environmental Engineer Ms. Donna Wilson included the Town of Apex's 2001 approval for PCM's original plan as approval for this revised manual. The changes proposed in this new plan were required to be submitted to the Town of Apex for review of compliance with the Town's Ordinances.

Without the required submittal to the town for review, you are hereby notified that this Recycling Center [Use 4.3.3(F)] is in violation of the following Town of Apex Unified Development Ordinances; Town of Apex Code of Ordinances; North Carolina Building, Electrical and Plumbing Codes; and North Carolina Fire Prevention Codes.

Page 2 of 5 Certified Mail # 7008 1300 0000 7791 6155

#### Planning Department:

**Section 4.2.2 Use Table**. You are violating this section in that this site was approved as a Transfer Station for sorting of, and off site disposal of, new construction material only. The processing and disposal of tires, box springs and / or mattresses are not approved products for this site.

**Section 4.3.3(F) Recycling Center.** You are violating this section in that you have not obtained the required Special Use Permit for adding the operation of Chipping and Mulching and / or crush material (cement and asphaltic / bituminous) to this site.

Section 4.3.3(M) Land Clearing and Inert Debris Landfill. You are violating this section in that you have not obtained the required Special Use Permit for operation of the disposal of solid waste generated from Inert Debris such as brick and concrete.

#### Public Works Department, Environmental Programs Division:

Chapter 10, Article II Mosquito Control. You are violating subsection 10-20 in that tires are being stored in open areas where they may collect water, creating a location(s) in which mosquitoes are likely to breed.

Chapter Article IV Solid Waste Disposal. You are violating subsection 12-114 in that garbage, litter and other debris is present all over the site and has blown onto adjoining properties. The approved 2001 Operations Plans specified the site would be complaint with this Town Ordinance under plan section 3.3 Housekeeping and Litter Control as stated that facility personnel would police the area throughout the day and at the conclusion of each day for collection and disposal of windblown litter.

#### Fire Department:

**Section 312.** You are violating this section in that Vehicle Impact Protection is to be provided for above ground storage tanks. Protection is to include guard posts constructed of steel not less than 4 inches in diameter and filled with concrete three feet (3') deep **and** at least three feet (3') above ground.

**Section 503.2.3**. You are violating this section in that required Fire Apparatus Access Roads are to be maintained to support the imposed load of fire apparatus and shall be surfaced so as to provide all weather driving capabilities.

#### Construction Management Department, Permits and Inspections Division:

A permit will need to be obtained from the inspection department to ensure that all building, wiring and plumbing is in compliance with the NC Building, NC Electrical and NC Plumbing Codes in regards to the Recycling Center site. Plans may need to be submitted and approved prior to issuance of a permit.

Page 3 of 5 Certified Mail # 7008 1300 0000 7791 6155

In order to comply with the above referenced Ordinances, you must and are hereby ordered to do the following:

#### Planning Department:

- 4. Remove any and all tire storage / disposal as well as any and all box spring / mattress storage / disposal from the site by 5:00 p.m. on the tenth (10<sup>th</sup>) day after the date of receipt of this Notice of Violation and Correction Order. Ensure that only approved new construction material is brought to, sorted and disposed of from this site; and
- 5. Cease utilization of the site for chipping and mulching; a Special Use Permit is required for this additional use. Remove any and all stockpiles of chipped and mulched material and / or material waiting to be processed currently on site. These materials must be removed by 5:00 p.m. on the tenth (10<sup>th</sup>) day after the date of receipt of this Notice of Violation and Correction Order; and
- 6. Cease utilization of the site for crushing cement and asphaltic / bituminous material for resale from this site; a Special use Permit is required for this additional use. Remove any and all stockpiles of crushed concrete and asphaltic / bituminous materials and / or material waiting to be processed currently on site. These materials must be removed by 5:00 p.m. on the tenth (10<sup>th</sup>) day after the date of receipt of this Notice of Violation and Correction Order; and

#### Public Works Department, Environmental Programs Division:

- 5. Upon receipt of this Notice of Violation and Correction Order, immediately remove all tire storage from this site unless such collection of water is treated so as to effectually prevent such breeding; and
- Upon receipt of this Notice of Violation and Correction Order, immediately clean the site of all windblown litter; ensure the site is kept clean by strictly adhering to the housekeeping procedures specified in the 2001 Operations Plan approved by the Town of Apex; and
- 7. Upon receipt of this Notice of Violation and Correction Order, contact the NCDENR – DWM – Solid Waste Section and report any conditions inconsistent with NC Sold Waste Permit 92-29T. Recent inspections by Town staff revealed several on-site storage and soil erosion and sedimentation control practices that may be inconsistent with the approved 2001 Operations Plan. Inspection photos collected during the inspections have been forwarded to NCDENR DWM staff; and
- 8. Upon receipt of this Notice of Violation and Correction Order, contact the NCDENR Division of Water Quality (DWQ) Surface Water Protection Section. Based on a recent inspection by the DWQ, they have determined this facility is subject to the National Pollutant Discharge Elimination System (NPDES) stormwater discharge requirements; and

Page 4 of 5 Certified Mail # 7008 1300 0000 7791 6155

#### Fire Department:

- 3. Install Vehicle Impact Protection at all above ground storage tanks by 5:00 p.m. on the tenth (10<sup>th</sup>) day after the date of receipt of this Notice of Violation and Correction Order. Protection installation is to include but is not limited to guard posts constructed of steel not less than 4 inches in diameter and filled with concrete three feet (3') deep and three feet (3') above ground; and
- Apply all weather driving capabilities surface on the Fire Apparatus Access Road within thirty (30) days of the date of receipt of this Notice of Violation and Correction Order; ensure the road is appropriately maintained; and

#### Construction Management Department, Permits and Inspections Division:

 Submit an permit application along with any applicable plan(s) to obtain a permit for inspection of the site to determine compliance with NC Building, NC Electrical and NC Plumbing Codes with fifteen days of the date of receipt of this Notice of Violation and Correction order.

You are ordered to comply with the above requirements within the deadlines noted. Failure to do so will result in the accumulation of civil penalties in the amount of \$100.00 for each violation of the Unified Development Ordinances per day. A person receiving a Civil Citation shall pay all accrued civil penalties to the Town of Apex within thirty (30) days of receipt of that notice. If such person fails to pay the accrued civil penalties within thirty (30) days of receipt of the notice, then the civil penalties, including all further accruing penalties for a continuing violation, shall be collectible by the Town through a civil action in the nature of a debt. The Town may choose to designate a collection agency to assist with the collection of any unpaid penalties. Each day that any violation continues shall constitute a separate violation for the purpose of assessing civil penalties. Violations are also subject to other forms of relief such as permit revocation, injunction and abatement.

Any person who is served a Notice of Violation and Correction Order of the Town's Unified Development Ordinances may appeal that determination to the Board of Adjustment within ten (10) days of the date of receipt of the Notice of Violation and Correction Order. The appeal is not to the ordinance(s) itself, but rather to how it has been applied in your particular case. The appeal is to be made in writing and submitted with the one hundred twenty-five dollar (\$125.00) fee; the process may be initiated by contacting Senior Planner June Cowles at (919) 249-3331.

Thank you for your cooperation in this matter. Should you have any questions, please contact me at 919 249-3335.

Sincerely yours,

Lissa Parrish, CZO

Zoning Compliance Officer

Town of Apex Planning Department

And

Page 5 of 5 Certified Mail # 7008 1300 0000 7791 6155

Michael Deaton, P.E.

Michael Deate

Environmental Programs Manager

Town of Apex Public Works Department

And

David Dillon, CFI Fire Inspector

Town of Apex Fire Department

And

Rudy Baker

Code Enforcement Supervisor

Town of Apex Construction Management Department,

Permits and Inspections Division

cc: Bruce Radford, Town Manager

Henry C. Fordham, Jr., Town Attorney

Laurie Hohe, Assistant Town Attorney

Dianne Khin, AICP, Planning Director

Steve Yates, CZO, Zoning Compliance Supervisor

June Cowles, Senior Planner

Jason Watkins, NC Division of Waste Management, Solid Waste Program, 585 Waughton Street, Winston-Salem NC 27107

#### **Operations Manual**

South Wake C&D Transfer Station Raleigh, North Carolina

Prepared for:

Shotwell Transfer Station II, Inc.
Raleigh, North Carolina

February 2009



#### **OPERATION MANUAL**

South Wake C&D **Transfer Station** Raleigh, NC

Prepared for:

Shotwell Transfer Station II, Inc. Raleigh, North Carolina

RSG Project No. SHOTXFER 08-1

Stacey A Smith, P.E. Project Manager

February 2009

RICHARDSON SMITH GARDNER ENGINEERING & GEOLOGICAL SERVICES

#### SOUTH WAKE C&D TRANSFER STATION

#### **OPERATIONS MANUAL**

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#### SECTION 1.0 GENERAL FACILITY OPERATIONS

#### 1.1 OVERVIEW

This Operations Manual was prepared for operations of the South Wake C&D Transfer Station facility (Permit No. 92-29T) located on SR 1011 in Apex, 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
- Recycling Center.

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 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. 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.

#### 1.2 CONTACT INFORMATION

All correspondence and questions concerning the operation of the South Wake Transfer Station should be directed to the appropriate company and regulatory personnel listed below. For fire or police emergencies dial 911.

#### **1.2.1 Shotwell Transfer Station II, Inc.** (Operator)

3209 Gresham Lake Road, Suite 115 Raleigh, North Carolina, NC 27615

Phone: (919) 773-9899 Fax: (919) 773-9898

Contact: David King

daviddebris@bellsouth.net

#### **1.2.2 Booth Properties, LLC.** (Owner)

1505 North Salem Street Apex, NC 27502

Phone: (919) 362-6168

(919) 363-3306

#### 1.2.3 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

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

Field Operations Branch Head: Mark Poindexter Central Regional Supervisor: Jason Watkins Waste Management Specialist: Bradley Bailey

#### 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 1506 N. Salem Street (SR 1011) as shown on **Figure 2**. Scales and scale house 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 operating hours, operating procedures, and acceptable wastes. 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 scale house/office have telephones in case of emergency and for the conduct of day-to-day business. Emergency telephone numbers are displayed in the scale house and office.

#### 1.6 FACILITY OPERATING HOURS

Normal hours of operation will be 7:00 A.M. to 4:00 P.M. Monday to Friday. The facility will be closed on Saturdays and Sundays.

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

#### 1.7 LITTER CONTROL

Litter fencing within the site provide barriers against scattering litter; the perimeter fence acts as barrier to keep litter contained within the site. The 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 within the transfer area or a piece of equipment must be anticipated in the daily operation of the facility. Fire suppression equipment shall be provided to control accidental fires and arrangements shall be made with the local fire protection agency. A combination of factory installed fire suppression systems and/or portable fire extinguishers will be operational on all heavy pieces of equipment at all times. For larger or more serious outbreaks, the local fire department will respond.

The Operator will verbally notify the DWM (see **Section 1.2**) within 24 hours of discovery of a fire within any transfer or recycling area. 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 can make access to the facility dangerous, prevent movement and, thus, may require closure of the facility 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 should 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 should be used for repair. The transfer area is uncovered which will require operations to cease during rainfall events.

#### 1.9.3 Electrical Storms

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

#### 1.9.4 Windy Conditions

Facility operations during a particularly windy period may require that the active tipping

area be temporarily suspended to a more sheltered area.

#### 1.9.5 Violent Storms

In the event of hurricane, tornado, or severe winter storm warning issued by the National Weather Service, facility operations will 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. A table of descriptions and primary functions for each piece of equipment has been provided in **Section 2.5.5**.

#### 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. A table of descriptions and primary functions for all personnel has been provided in **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 South Wake C&D Transfer and Recycling Center.

#### 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 County. MSDS sheets shall be stored in a location with all other Right to Know information for the site.

#### 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 landfill:

- 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. Annual facility reports;
- G. Cost estimates or financial assurance documentation.

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 South Wake Transfer Station facility. In addition to the C&D waste received at this facility, the facility also processes 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.

#### 2.2 ACCEPTABLE WASTES

#### 2.2.1 <u>C&D Transfer Station</u>

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

- <u>Construction and Demolition Debris Waste:</u> (Waste or debris from construction, remodeling, repair, or demolition operations on pavement or other structures)
- <u>Inert Debris Waste:</u> (Concrete, brick, concrete block, uncontaminated soils and rock, untreated and unpainted wood, 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 source separated in the transfer area(s):

- Non-treated, non-painted clean wood (lumber);
- Pallets (damaged and un-damaged);
- Cardboard:
- Brick and block (undamaged and un-painted); and
- Metal (ferrous and non-ferrous).

#### 2.3 PROHIBITED WASTES

Only wastes, as defined in **Section 2.2** above may be accepted in the C&D transfer station. No other wastes may be accepted.

#### 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 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.

#### 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 transfer or recycling area as appropriate.

Vehicles are randomly selected for screening on a regular basis, depending on personnel available. At least one (1) 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 that looks suspicious is spotted in any waste load, that load is inspected further.

Vehicles selected for inspection are directed to the transfer area 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 Operator 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 A**.

In addition to random waste screening described above, waste unloaded in the transfer area 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. From time to time, other minor wastes may be encountered (i.e. random bag of household waste, tires, etc.). If these are encountered, containers will be staged on-site such that random tires will be placed in the container or a bag of household waste will be placed in a separate container to be disposed at an appropriate licensed facility.

#### 2.5 FACILITY OPERATIONS

#### 2.5.1 **Operating Capacity**

The Operating Capacity for the transfer area is estimated to be approximately 250 tons per day average of C&D waste.

#### 2.5.2 Service Area

The anticipated service area for the transfer facility (subject to change) is generally anticipated to be concentrated in Wake County and its surrounding counties as shown in **Figure 3**.

#### 2.5.3 <u>Disposal Facility</u>

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

- 1. Shotwell C&D Landfill (Permit No. 92-26)
- 2. WCA Material Recovery C&D Landfill (Permit No. 92-31)
- 3. Red Rock Disposal C&D Landfill (Permit No. 92-28)

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.

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

<sup>\*</sup> 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	Loading		
2) Front End Loader	Loading, recycling, and site cleanup		
3) Transfer Trucks (4)*	Collection and transfer of C&D Waste		

<sup>\*</sup> 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 transfer or recycling area. Traffic speed on the site should be less than 3 MPH. Rutting of gravel roadway surfaces must be repaired by placement of additional gravel on the roadway and not solely by grading. 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 by and over the scales and scale house for weight;
- 3. Continue along the access road until reaching the transfer area;
- 4. Adequate area is available in front of the transfer area for drivers to guide their vehicles into a backing maneuver. Station operating personnel will be in the transfer area to direct and guide the vehicles.
- 5. The vehicles will back in the transfer area designated by the attendant.
- 6. Once the vehicle is in position, the waste load will be discharged directly onto a concrete pad.
- 7. A spotter will inspect and hand sort the discharged waste before it is mixed with other waste in the transfer area and pushed by a rubber-tired loader to the

excavator platform loading the open top transfer trailers, specifically designed for hauling C&D wastes.

#### 2.7 RECYCLING AREA OPERATIONS

The facility's recycling area is used to store, separate, and contain commingled recyclable materials from the transfer area and/or pre-sorted materials such as new construction materials. The facility is equipped with equipment to facilitate hand sorting of materials, and bins for storage as defined in **Section 2.5.5**.

#### 2.7.1 Recycling/Source Separation

As a means of capturing recyclable materials and/or waste screening, source separation 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 pushed by a rubber-tired loader to the excavator platform loading 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 new construction waste.
- 2. Materials to be recycled and/or processed may stay on the floor (not in containers) for no more than 48 hours or two (2) working days.
- 3. Treated wood (any wood other than virgin wood) waste is not accepted for recycling station.
- 4. Materials, as defined in **Section 2.2.2**, will also be pulled from the C&D waste and loaded into appropriately labeled containers immediately to the recycling area.
- 5. Cardboard will be loaded into a container located off to one side of the transfer area.
- 6. Concrete (cement and asphaltic/bituminous) may be delivered and stockpiled at the limits of the recycling area. The concrete waste will be crushed and subsequently stockpiled in this same area until it is removed from the site for sale as fill, aggregate, etc., as markets allow.

#### 2.7.2 Containers

Containers (generally 8'x20' or 8'x15') used for holding cardboard, metal, and other recyclables, along with unacceptable MSW or tires encountered, will be stored in the recycling area. The containers will be removed from the site as they are filled.

#### 2.7.3 Other Storage Areas

All other recyclable waste products will be stored around the recycling area. These products will be maintained in discrete piles or containers as follows:

- Wood pallets will be delivered and containerized or covered;
- Concrete/asphalt/brick materials; and
- Clean wood debris and other re-useable new construction materials.

#### 2.7.4 Markets

The final destination of the recyclable materials separated from the waste may vary depending on market prices for such materials. In general materials which have valid markets will be recycled. However, markets shall fluctuate. In any case, no more than one load (respective to the material) shall be stored at any one time and in no case more than one year.

Anticipated end markets for the recyclable materials are as follows:

- Metals: TT&E, Wise Recycling, Raleigh Metals, etc.
- Pallets: Shotwell C&D Landfill for grinding to Craven County WTE or McGill Environmental for compost.
- Clean Wood: Shotwell C&D Landfill for grinding to Craven County WTE or McGill Environmental for compost.
- Cardboard: Paper Stock Dealers, Sonoco Products, etc.

#### 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.

Separate erosion and sedimentation control plans are provided for the site to Wake County. These plans describe both short and long term engineered features and practices for preventing erosion and controlling sedimentation at this site.

#### 3.2.1 Erosion Control

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.

#### 3.2.2 <u>Sedimentation Control</u>

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.

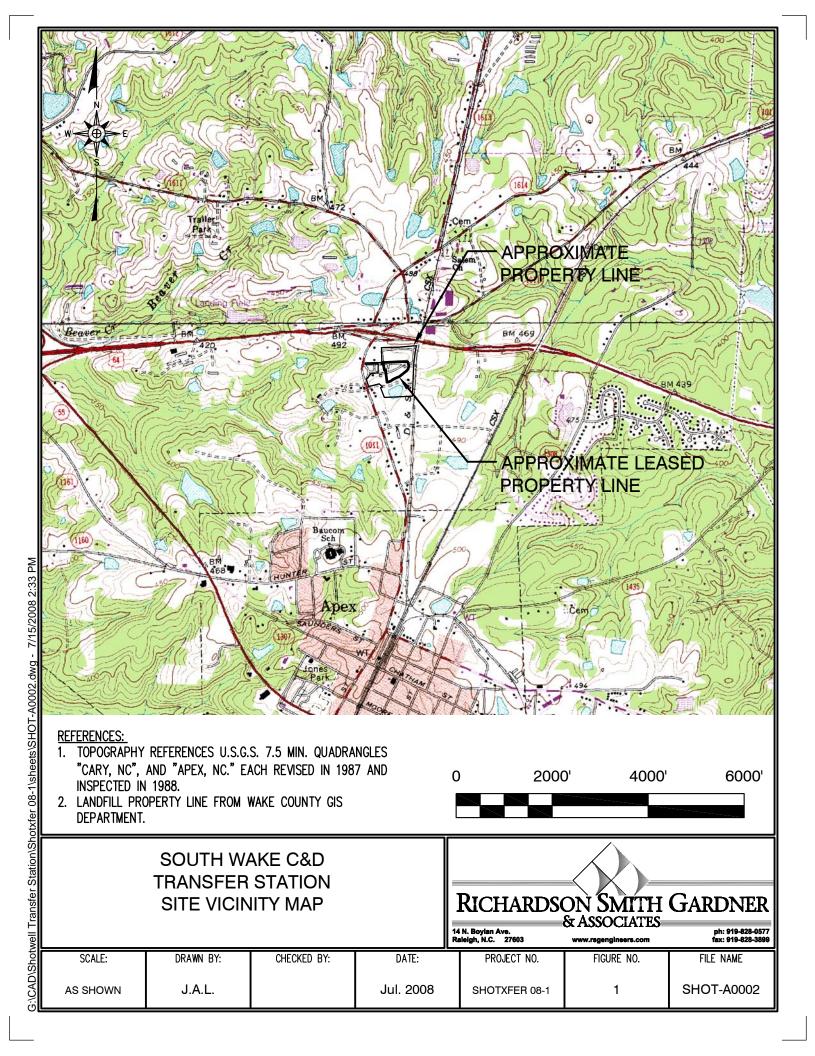
#### 3.3 VECTOR CONTROL

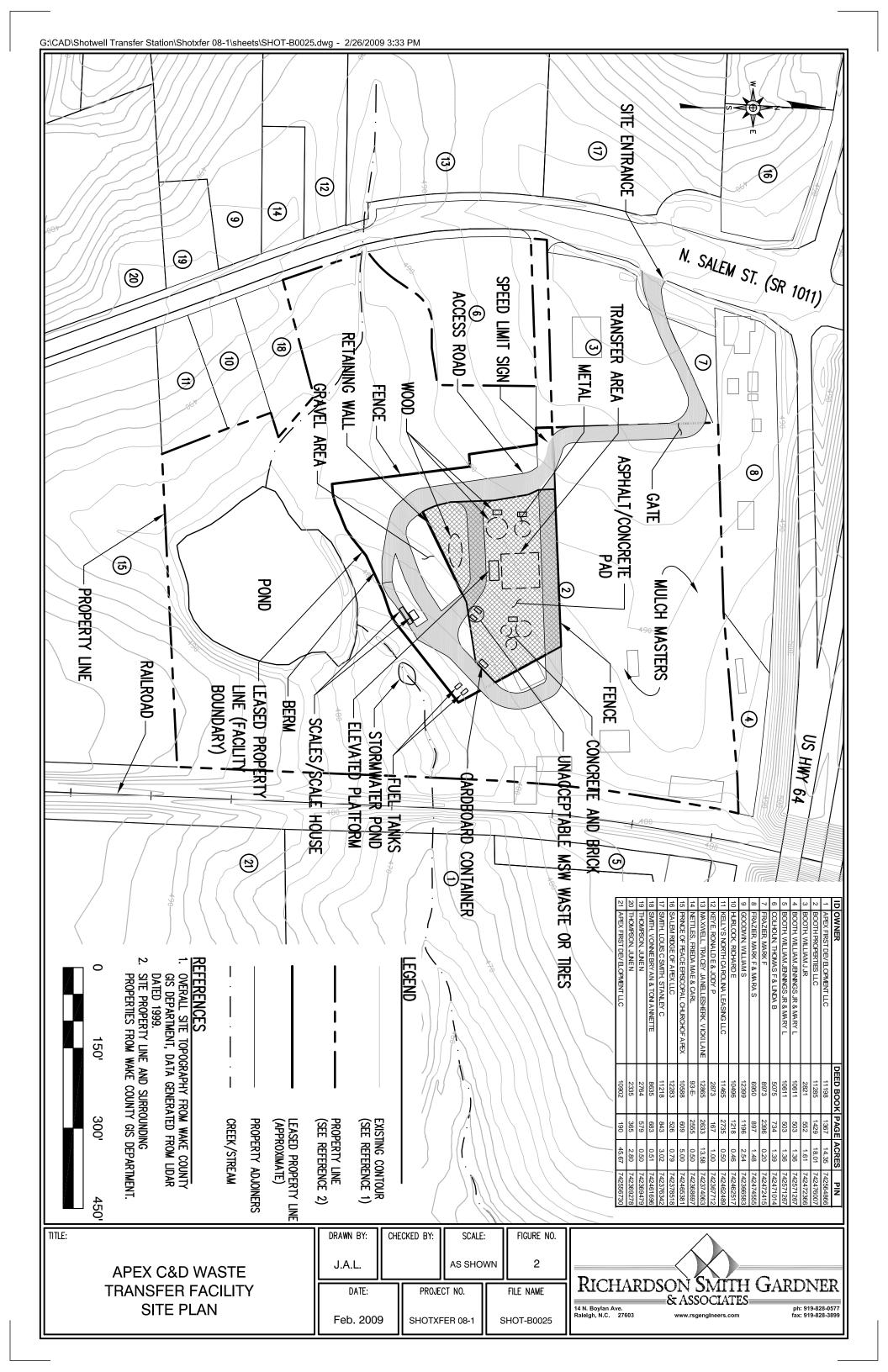
Control of insects, rodents, and birds will be accomplished by periodic cleaning of the facility. Spilled or wind-blown debris along the access road will be cleaned up daily and placed in the transfer truck. The transfer areas will be cleaned, as necessary, each day to maintain a sanitary

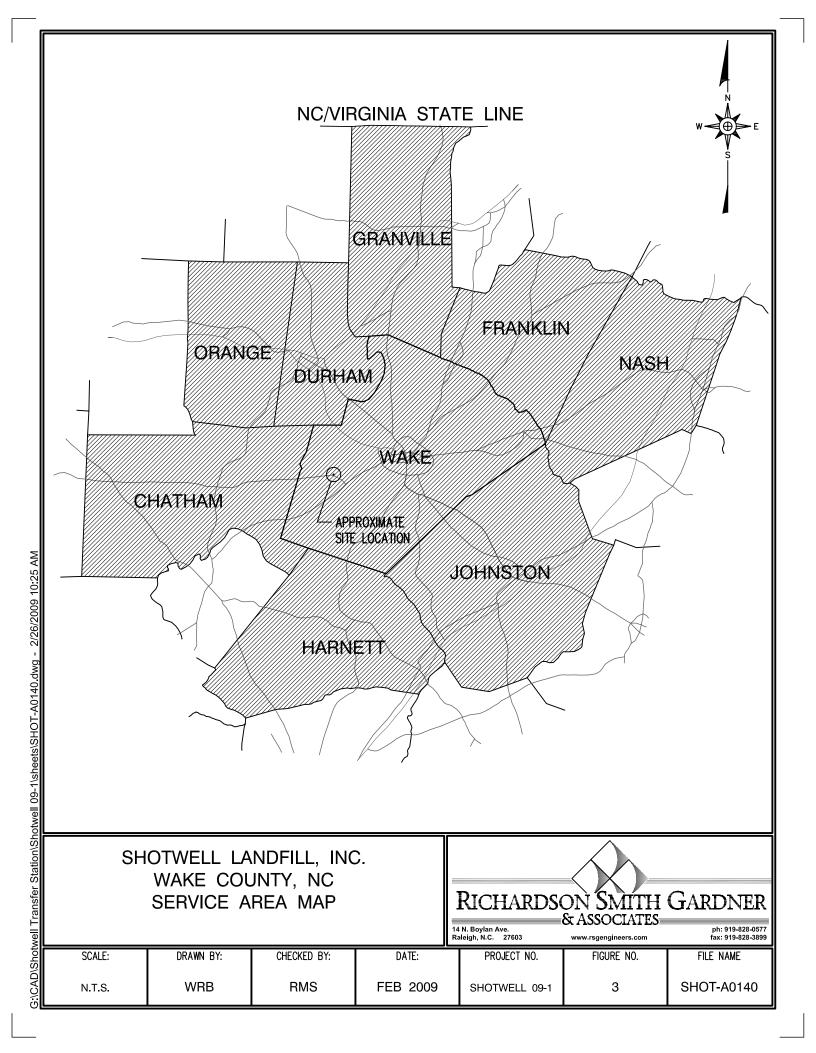
operation. If vector control becomes a problem, additional measures will be taken to ensure the protection of human health.

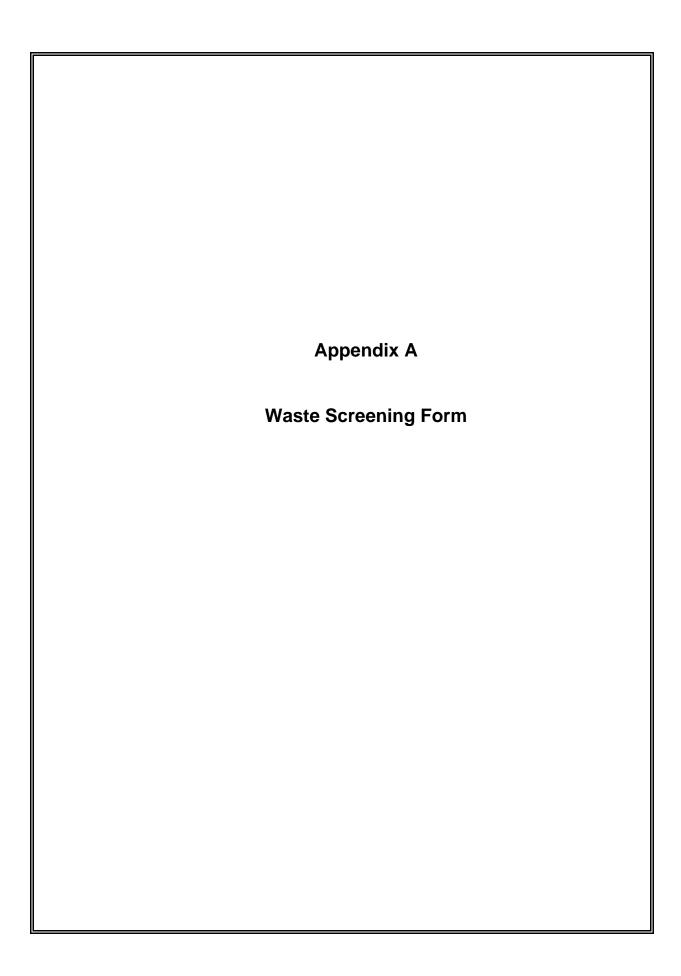
#### 3.4 DUST CONTROL

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.









## PCM Apex Transfer Station (919) 303-4723 WASTE SCREENING FORM

Day / Date: Truck Owner: Truck Type: Weight Waste Generator / Source:		Vehicle ID / Tag No:				
waste Generator / Source:						
Reason Load Inspected:	Random Inspection Detained at Scales Detained by Operatir	ng Staff	_		nitials nitials nitials	
Inspection Location:						
Approved Waste Determina	ation Form Present?	Yes	No	)	N/A	
Description of Load:						
Load Accepted (signature) Load Not Accepted (signature)	uro)				Date	
Reason Load Not Accepted	d (complete only if load	d not accepted	)			
Description of Suspicious C	Contents: Color Texture			Haz. Wa	aste Markings	
	Drums Present ds. Present in Load ns Present in Load			Smell		
Granville County Emergend	cy Management Contac	ted?	Yes		No	
Company or Authority Cont Hazardous Materials Prese						
Hauler Notified (if waste no Other Observations:	t accepted)	Phone:			Time Contacted:	
Final Disposition Signed Waste Scr	eening Inspector or Environmen	tal Officer		Date		

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

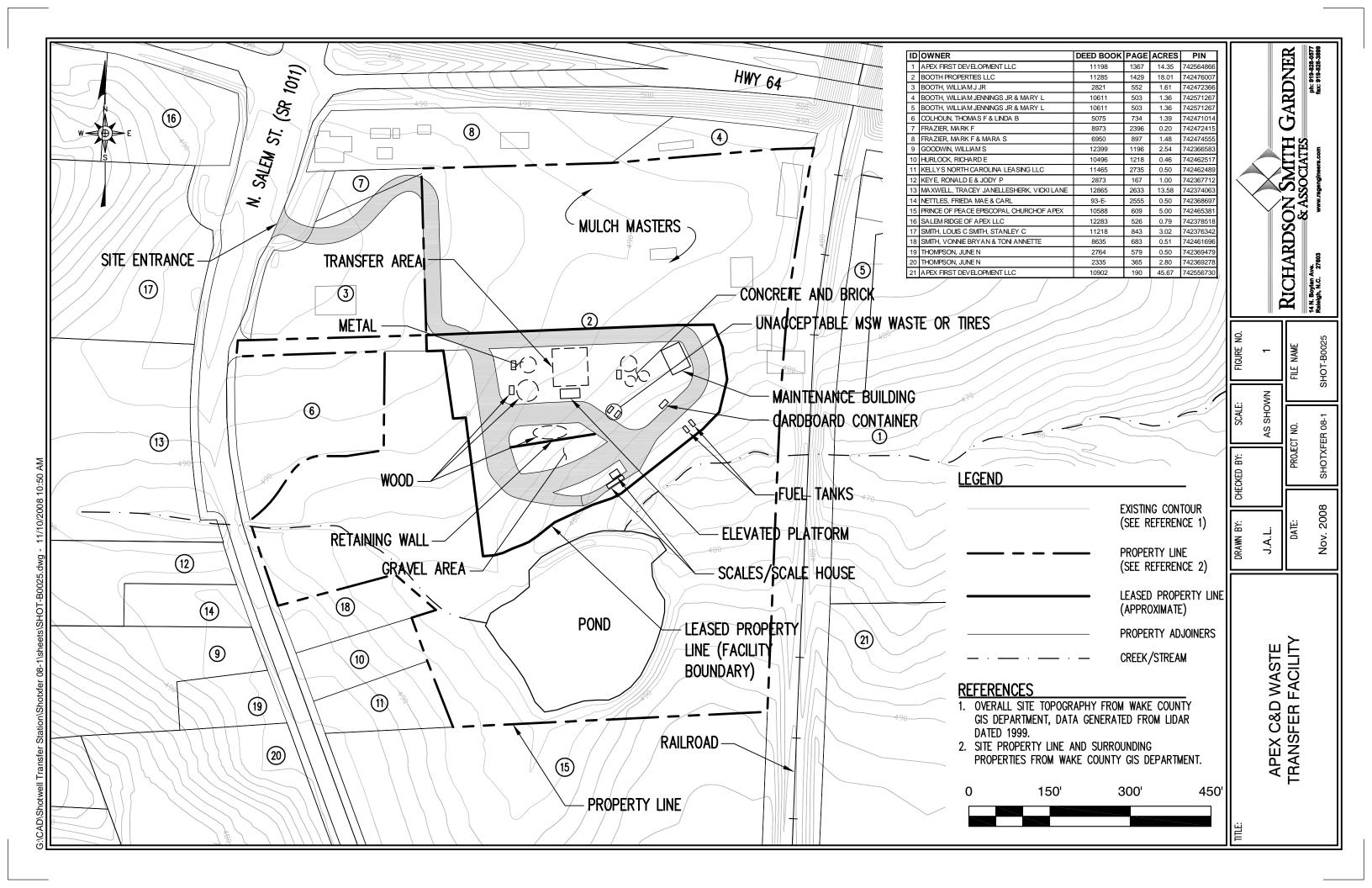
#### **EXEMPT SITE PLAN APPLICATION**

#### THIS APPLICATION IS **NOT** A BUILDING PERMIT

#### A Building Permit is Required (Please contact the Building Inspections Division at 249-3418 for Building Permit application & requirements)

Fee: \$50.00

Amount Paid:	Submittal Date:			
Applicant Information Address of property: 1506 1/2 N. Salem Street	Anay NC			
	Apex, NC			
Name: Shotwell Transfer Station 11, Inc.				
Applicant/Company Address: 3209 Gresham Lake Roa	d, Suite 115			
Telephone: (919) 773-9899 Fax: (919) 77	3-9898			
E-mail Address: <u>Daviddebris@bellsouth.net</u>				
Exempt Site Plan Requirements (Please verify that the follow plan and submit 1 set of 11" by 17" plans with application).  Overall site vicinity map showing nearby roads, streams, adjace Existing site layout/conditions.  General site layout including proposed revisions or expanse.  Other requirements set by Town Departments (grading plantility plan, landscape plan, etc.)	cent properties, etc.			
Exempt Site Plan Description:  Any development or activity as listed below is Exempt from Site application must meet all applicable provisions of the Unified Description of Exempt Site Plan:  Utilities and public works projects (road improvements, utility boxes etc.) Please specify:	evelopment Ordinance (UDO).			
Preliminary Testing (soil testing, soil borings, land surveying	g, etc.)			
Please specify type(s) of testing:				
Minor site elements and features (playground equipment, side	ewalks, dumpsters, new mechanical			
equipment, accessory structures, awnings, addition of lights, Please specify: Minor site plan updated from	former Bass Nixon Kennedy			
drawings dated 3-18-03				
Does the proposed work disturb one (1) acre of land or greated Expansion, repair or re-use Enlargement of building by 25% or less	er?  Yes  No			
Expansion of the number of parking spaces by 10 or less				
Enlargement of the land area used by 25% or less  X Other (please specify):Site updates include a	addition of fuel tanks & opera-			
Does the expansion, repair or Re-Use involve a Change of Use Please specify/explain:	se according to the UDO? ☐ Yes ☒ No tional updates			



#### **MEMORANDUM**

TO: David W. King, Jr., Shotwell Transfer Station II, Inc.

FROM: Stacey A. Smith, P.E., RSG

DATE: February 25, 2009

SUBJECT: South Wake C&D Transfer Station

Stormwater Management Recommendations

Apex, North Carolina

As a follow up to our meeting this morning, I have outlined some measures that need to be implemented to assist in the stormwater management at this facility. As you are aware, the site generally slopes from the northwest to the southeast. Along the south and southeast boundaries of the operations, a vegetated berm exists that contains stormwater and diverts it to three (3) outlet points as follows:

- 1. A break in the berm just before the scales and scalehouse facility;
- 2. An access point to a small stormwater basin just east of the scale and scalehouse facility; and
- 3. A more prevalent opening just south of the existing fuel storage tanks.

We recommend the following measures be taken at each of these locations:

<u>Location 1</u>: Install a diversion berm down stream of the berm break and place a rip rap (or concrete equivalent) weir with #57 stone facing to contain and filter stormwater prior to discharge in the small pond.

<u>Location 2</u>: Re-grade the area and improve drainage channel adjacent to scales that enter this area. Rip rap lining through this area would assist in maintaining non-erosive velocities prior to entering the small pond. Additionally, this access point shall be sloped to promote stormwater to the next berm opening described in <u>Location 3</u>. If Shotwell intends to continue utilization of this area for construction water, it is recommended that additional stone base be placed on the road and a "drive-over" berm be installed to insure stormwater is directed to Location 3.

<u>Location 3</u>: It appeared that this location was orginally intended as the discharge point for the site. This area should be re-graded and made into a reinforced access point including a rip rap (or concrete equivalent) level spreader prior to discharge. I recommend re-grading to include a 15 foot wide level spreader from the edge of the existing berm to the discharge into the small pond. This level spreader should include a minimum 12 inch thick stone with an underlying non-woven geotextile material.

Other General Site Improvements: As we discussed, site traffic appears to be operating in areas that are not under all weather access. As a result, these areas are being disturbed and causing rutting, erosion, etc.. Therefore, we suggest placing barriers to better direct traffic around site and consider placement of mulch products to prevent open bare areas from further eroding. Furthermore, the site would benefit from placement of additional barriers or markers identifying the extents of the transfer station operations including additional signs to better direct new customers or to direct visitors to the scale house manager.

\* \* \* \* \*