

## Community Development Housing Division

201 West 5<sup>th</sup> Street

Greenville, NC 27834

### 507 Roosevelt Avenue Demolition

#### Invitation to Bid

This project is assisted by the U.S. Department of Housing and Urban Development and are Section 3 covered contracts. Local preference policy does not apply to federally funded programs.

Instructions and complete specifications for submitting bid will be available at the **mandatory pre-bid meeting (for eligible Contractors)** located at **507 Roosevelt Avenue. The package will be available for pickup Wednesday, August 15, 2018 at 9:30 AM.** Contractors are required to attend the pre-bid meeting in order to submit a bid.

#### BIDDERS

Bid proposals are due by **9:00 AM EST on Wednesday August 22, 2018.**

Bid proposals may be submitted as following:

- Email [vsmith@greenvillenc.gov](mailto:vsmith@greenvillenc.gov)
- Fax (252)329-4631
- Submit bid to the Community Development Department, Housing Division at 201 West Fifth Street, third floor, Greenville, North Carolina, ATTN: Renee Skeen, Loan Administrator. Bid proposals will be opened and read promptly at **9:30 AM EST on Wednesday, August 22, 2018** at the Municipal Building, 201 West Fifth Street, third floor, Greenville, North Carolina.

***The City of Greenville reserves the right to reject any and all bids, to waive any informality, and to accept the bid or any portion thereof that is deemed most advantageous to the City.***

Minority owned, female owned and Section 3 certified businesses are encouraged to participate. For further information, you may contact Virgil D. Smith Sr., Housing Rehabilitation Specialist at (252) 329-4503.

For more information contact:

Virgil D. Smith, Sr., Housing Rehabilitation Specialist at (252) 329-4503 or [vsmith@greenvillenc.gov](mailto:vsmith@greenvillenc.gov)

# **Specifications For Demolition of 507 Roosevelt Avenue**

## **STATEMENT OF WORK**

The Contractor shall furnish all supervision, labor materials, machinery, tools equipment and services, and transportation services, and perform and complete all work required in an efficient and skillful manner on the property described as follows:

**507 Roosevelt Avenue**

**Greenville, North Carolina**

The work to be performed by the Contractor is Demolition of property described as follows:

- (A.) Demolish and remove structure(s) and all debris from the entire property (corner to corner) including positive drain grading entire lot and removing dead tree(s), brushes, shrubs, driveways concrete and all trees 8" and less in diameter on the property.
- (B.) Each structure to be completely demolished prior to removing from the site. No whole part, i.e., room or room will be removed as a whole. All sheds, fences, posts, and other structures on the lot will also be removed.
- (C.) Furnish all necessary transportation and haul away all materials and debris, leaving the site "rake clean." Where necessary, fill sand will be hauled in. Lot must be graded smooth for positive drain and install Crush and Run gravel. All privies to be removed and pits filled after treatment with lime.
- (D.) Ensure that any water, gas, or electrical utility line is properly turned off or capped and meters removed by appropriate agency prior to removing such line.
- (E.) No materials or debris will be burned and no blasting performed on the premises unless specifically authorized by the City and under such conditions as are contained in such authorization. Secure permit from Fire Department before burning any trash, debris, or materials on lot.
- (F.) All transportation of debris must comply with applicable federal and state legislation and regulations concerning coverage, tie down, securing, and transportation.

- (G.) The Contractor is not an employee of the City or agent of the City, but an independent contractor.
- (H.) The Contractor shall be responsible for payment of any landfill fees. The Contractor will provide the City with a copy of all landfill charge receipts.
- (I) The Contractor is responsible for the separation, disposal and transport of all concrete and asphalt from other demolition materials. The Contractor may not mix items with wood/sidings/windows and the like. EJE Recycling also accepts C&D loads. If such method of disposal for any recyclable materials, the Contractor must provide a receipt from the recycler.
- (J) Contractor shall remove the water line capping it off at the main line in the street and capping sewer line at the curb. An approval inspection must be received from Greenville Utilities Water Service Department. Contact Jarrett McGalliard, Engineering Assistant Water Resources Department at (252)-551-3398 Office, (252)-378-6437 Mobile
- (K) Contractor is required to obtain from the City of Greenville Public Works Department a Right-of-Way Excavation & Restoration Permit for this project Attached I.
- (L) Contractor is responsible for patching of street surface after capping of water line. Contractor must contact Gentry Coward, Assistant Street Superintendent @ 252329-4050 with Public Works for density test of street repair.

Upon receipt of invoice, after the work has been completed by the Contractor and an approved inspection report from the City Housing Division, Public Works Street Department along with Greenville Utilities Water Department, then the amount of **awarded bid** shall be paid to the Contractor by the Housing Division in accordance to the City of Greenville Accounts Payable and Voucher Check Request Policy and Procedure.

Please note that any and all correspondence to and from this email address is subject to North Carolina Public Records Law and may be disclosed to third parties.

## Specifications For Demolition of 507 Roosevelt Avenue

**COORDINATION OF WORK:**

1. Contractor shall confine the storage materials, equipment and demolition activity to the limits of work.
2. Proper coordination between the demolition contractor and other contractors on site shall be maintained so that the work can be completed. In case the work required interferes with other contractors, the demolition contractor may make a request 72 hours in advance to the City so that the proper coordination can be accomplished.

**CONTRACT DOCUMENTS:**

The attached documents are as follows:

	Title	Department
Attachment I	Right-of Way Excavation & Restoration Permit	Public Works Gentry Coward 252-329-4050
Attachment II	E-VERIFY COMPLIANCE: IRAN DIVESTMENT ACT: Equal Employment Opportunity	Community Development Housing Division
Attachment III	Proposal Sheet	Community Development Housing Division
Attachment IV	Asbestos Report	Enviro Assessment East, Inc



*Find yourself in good company*

## **PUBLIC WORKS**

Effective August 4, 2014

### **Right-of-Way Excavation & Restoration Permit Application**

Permit No. \_\_\_\_\_

Date \_\_\_\_\_

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It is understood that intent to cut within a City street, sidewalk, and/or curb and gutter must receive prior approval by the City of Greenville through means of obtaining a permit. Failure to receive prior approval (except for emergency repairs) will result in a \$500 fine in addition to the normal cost of the permit and repair work.

Unless otherwise noted, all cuts made into City right-of-ways must be repaired by the Greenville Public Works Street Division. Seventy-two (72) hour notice must be given prior to making cut.

Permits are valid for thirty (30) days only and must be renewed to extend approval beyond this period of time. Notification must be given to Public Works Street Maintenance Division after work is completed and backfilled for inspection before leaving job.

**Applicant:**

Company: \_\_\_\_\_

Address: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

24 Hr. Contact: \_\_\_\_\_

Phone: \_\_\_\_\_

**Project Information:**

Location: (Include Location Map): Nearest Street Intersection: \_\_\_\_\_

\_\_\_\_\_ Description of Work and  
Utility Involved (Attach a plan to include sufficient detail of the work involved):  
\_\_\_\_\_  
\_\_\_\_\_

Date of Proposed Work: \_\_\_\_\_  
Lane Closure, Road Closure and Detour Plan: If applicable, applicant shall submit plan with  
application. \_\_\_\_\_

ULOCO call ticket number: \_\_\_\_\_

Additional Information: \_\_\_\_\_  
\_\_\_\_\_

**Permit Approval Subject to Special Provisions as Applicable:**

**Specific Requirements:**

- 1) \_\_\_\_\_  
\_\_\_\_\_
- 2) \_\_\_\_\_  
\_\_\_\_\_

**General Requirements:**

- 1) The permittee shall notify the Greenville Public Works Street Maintenance Division office at (252) 329-4344, 72 hours prior to beginning construction and upon completion of construction.
- 2) All lanes of traffic shall be open on Greenville thoroughfares from 7:00 AM until 8:30 AM and from 4:30 PM until 6:00 PM on weekdays only. Approval must be received by the Greenville Public Works Street Division at (252) 329-4344, 72 hours prior to any lane/road closure with the exception of an emergency repair.
- 3) Permittee shall provide traffic control devices, lane closures, road closures, positive protection and/or any other warning or positive protection devices necessary for the safety of road users during construction and any subsequent maintenance. This shall be performed in conformance with the latest Manual on Uniform Traffic Control Devices for Streets and Highways and Amendment or Supplement thereto. Notification of a lane or road closure shall also be made to the City Traffic Engineer, phone (252) 3294066. Such closures require a plan submitted to the City Traffic Engineer for approval prior to the commencement of work.

- 4) Should excavation be within 500 feet of a signalized intersection permittee shall notify the City Traffic Engineer at (252) 329-4066. All traffic signal or detection cables must be located prior to excavation.
- 5) An executed copy of the approved permit and plans shall be present at the construction site at all times during construction. If safety or traffic conditions warrant such action, The City of Greenville reserves the right to further limit, restrict, or suspend operations within the right of way.
- 6) The permittee shall contact the appropriate Utility Companies involved and make satisfactory arrangements to adjust the utilities in conflict with the proposed work prior to beginning construction.
- 7) All fill areas/backfill shall be compacted to 95% density in accordance with AASHTO T99. All material to a depth of 8 inches below the finished surface of the subgrade shall be compacted to a density equal to 100% of that obtained by compacting a sample of the material in accordance with AASHTO T99. The Contractor shall dry or add moisture to the subgrade when required to provide a uniformly compacted and acceptable subgrade. All material placed in a maximum of 6" lifts.
- 8) All earth areas disturbed shall be graded, dressed, seeded, mulched, and tacked with liquid asphalt or other approved means within 10 days of completion of work in any area.
- 9) All workmanship and materials shall conform to The City of Greenville Manual of Standard Design Details (MSDD).
- 10) The permittee shall comply with all applicable federal, state and local environmental regulations, and as applicable shall obtain all necessary federal, state and local environmental permits, including but not limited to, those related to sediment control, storm water, wetland, streams, endangered species and historical sites.
- 11) All existing structures, pavement, drainage or otherwise, located inside the Right of Way that are affected by this work shall be restored to meet the all specifications as directed by the City Engineer. Any and all repairs required for open pavement cuts will be completed in accordance with the MSDD. Should the thickness of the existing asphalt exceed the minimum thickness as required by the MSDD, permittee shall replace at the same standard as the existing asphalt. ABC stone will not be used to fill the pavement cuts to the finish elevation of the surface asphalt as a temporary measure. Permittee will be responsible for providing a temporary asphalt patch until the City of Greenville Public Works, Street Division can schedule the final repair.
- 12) All concrete and asphalt driveways within the public right of way shall be crossed by dry bore methods. Any deviation shall be replaced by the permittee with like materials and be warranted for three years to cover all damages resulting from the open cut.
- 13) Ingress and egress shall be maintained to all businesses and dwellings affected by the work or project.
- 14) During non-working hours, equipment shall be parked as close to right of way lines as possible and be properly barricaded in order to not have any equipment obstruction within the Clear Recovery Area.
- 15) All roadway signs that are removed due to construction shall be reinstalled as soon as possible, but at least by the end of the same workday.
- 16) Excavation material shall not be placed on pavement. Drainage structures shall not be blocked with excavation materials.

- 17) All soils located inside the Right of Way shall be considered a type "C" soil. All trenching, shoring and excavation shall follow the OSHA guidelines for this type of soil.
- 18) Trenching, bore pits and/or other excavations shall not be left open or unsafe overnight. The Contractor shall comply with all OSHA requirements and provide a competent person on site to supervise excavation at all times.
- 19) Active excavation shoring, such as sheet piling shall be installed. The design of the shoring shall include the effects of traffic loads. The shoring system shall be designed and sealed by an engineer registered in North Carolina as a Professional Engineer. Shoring plans and design calculations shall be submitted to the City of Greenville Engineer for review prior to construction. Trench boxes shall not be accepted as shoring.
- 20) All shoulder installation shall remain a minimum of 1 foot distance per 1 foot depth (1:1 slope) from the edge of pavement to the nearest inside wall of excavation.
- 21) All excavations inside the theoretical 1:1 slope from the existing edge of pavement to the bottom of the nearest excavation wall should be made in accordance with the following conditions:
  - a. Traffic should be moved to a travel lane outside the limits of a theoretical 1:1 slope from the bottom of trench wall to the pavement surface.
  - b. The trench backfill material should meet the Statewide Borrow Criteria. The Trench should be backfilled. The backfill material to be placed in layers not to exceed 6 inches loose and compacted to at least 95% of the density obtained by compacting a sample in accordance with AASHTO T99.
  - c. A qualified City of Greenville inspector should be on the site at all times during construction. The permittee shall be required to reimburse the City of Greenville for the cost of providing the inspector. If the City of Greenville cannot supply an inspector, the permittee (not the utility contractor) should make arrangements to have a qualified inspector, under supervision of a Professional Engineer registered in North Carolina, on the site at all times. The Registered Engineer should be required to certify that the utility was installed in accordance with the permit requirements.
  - d. At the first sign of trench failure, the trench should be immediately backfilled with materials consisting of A-1, A-3, A-2-4 soils or A-4 soils having a maximum of 40% passing a No. 200 sieve and a maximum P.I. of 6. All work should cease and the City Engineer should be contacted. The encroaching party will be required to repair any damage to the pavement caused by the excavation.
  - e. All trench excavation inside the limits of the theoretical 1:1 slope, as defined by the policy, should be completely backfilled and compacted at the end of each construction day. No portion of the trench shall be left open overnight.
  - f. The length of parallel excavation should be limited to the length necessary to install one joint of pipe at a time, not to exceed twenty-five (25) feet.
  - g. A performance bond shall be provided for a period of five (5) years to cover any pavement repairs required resulting from a settlement of utility trench due to improper backfill and compaction.
- 22) For a complete road crossings or crossing of a road that has been resurfaced in the past 5 years, the installation shall be by bore only. No open cuts will be permitted unless prior approval is received by the City Engineer citing and only based on extenuating circumstances.
  - a. Roadway bores shall be installed perpendicular to the centerline.



- b. All roadway crossings that exceed 6" shall be encased.
  - c. All roadway crossings by dry bore method shall be a minimum of 3 feet below the elevation of the existing roadway and 3 feet below the existing ditch.
  - d. Pipe encasements shall extend from ditch line to ditch line in cut sections, and 5 (five) feet beyond toe of slope in fill sections, and 3 (three) feet behind curb sections.
  - e. Directional boring using jetting with a Bentonite (or equivalent material) slurry will be considered at a minimum depth of 10 (ten) feet below the roadway surface (15 feet for controlled access roadways) and 5 (five) feet below any ditch line. Any changes shall be submitted to the City Engineer for approval prior to construction.
  - f. If an open cut is approved by the City Engineer, there will be a minimum overlay required in addition to the pavement cut. The extent of the overlay or resurfacing will be delineated by the City of Greenville and will be included in the cost of the permit.
- 23) All utilities shall be placed in accordance with the manual on Policies and Procedures for Accommodating Utilities on the Highway Rights of Way as provided by NCDOT and adopted by the City of Greenville.
- 24) All manholes and/or vaults within The City of Greenville right of way shall be in accordance with the City of Greenville MSDD. Structures not covered by the MSDD, the permittee shall submit details and design calculations signed and sealed by a State of North Carolina registered Professional Engineer for approval prior to construction.
- 25) Manhole rings and covers, valve covers, and storm drain grates and frames shall be of the traffic bearing types in accordance with MSDD for use within the highway right of way.
- 26) Proposed traffic-bearing manholes shall be flush mounted and shall be of an approved design for HS-20 loading.
- 27) Detection tape shall be buried in the trench approximately 1 foot above the fiber optic cable. Where conduit is installed in the right of way and is not of ferrous material, locating tape or detection wire shall be installed with the conduit.
- 28) Where utility is installed in the Right of Way and are not of ferrous material, a locating tape shall be installed with the pipeline.
- 29) Any drop off greater than 2" from the edge of pavement shall be made safe by using a 6:1 slope or flatter for a width of 6 feet

**APPLICANT'S CONSENT:** I (we) hereby agree to be bound by the provisions of the ordinances, specifications, and regulations of the City of Greenville, the Greenville Public Works Department, and to such special conditions, restrictions, and regulations as may be imposed by the Director of Public Works.

**APPLICANT'S SIGNATURE:** \_\_\_\_\_

**DATE:** \_\_\_\_\_

**CITY'S AUTHORIZATION:** The applicant is hereby authorized to make an opening in or under the above named street at the location designated; provided, however all work is performed in

accordance with the applicant's plans, the City of Greenville and Greenville Public Works Department's ordinances, specifications, and requirements and special conditions as noted herein

\_\_\_\_\_

\_\_\_\_\_

or as may be imposed during the performance of the authorized work.

APPROVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

LOGGED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

<b>INVOICE INFORMATION -</b>	
<b>ESTIMATED COSTS</b>	
<b>PERMIT FEE:</b>	\$250.00
<b>ASPHALT:</b>	
Square Feet:	
Unit Cost:	
Subtotal:	
<b>CEMENT:</b>	
Square Feet:	
Unit Cost:	
Subtotal:	
<b>OTHER:</b>	
Subtotal:	
Total Estimate:	
<b>ACTUAL COSTS</b>	
<b>PERMIT FEE:</b>	\$250.00
<b>ASPHALT:</b>	
Square Feet:	
Unit Cost:	
Subtotal:	
<b>CEMENT:</b>	
Square Feet:	

Unit Cost:
Subtotal:
<b>OTHER:</b>
Subtotal:
Total Estimate:
<b>- PUBLIC WORKS INFORMATION -</b>
DATE WORK ACCEPTED:
DATE COMPLETED:

Doc No. 984418

**Attachment II**

**E-VERIFY COMPLIANCE:** The Contractor shall comply with the requirements of Article 2 of Chapter 64 of the North Carolina General Statutes. Further if the Contractor utilizes a subcontractor, the Contractor shall require the subcontractor to comply with the requirements of Article 2 of Chapter 64 of the North Carolina General Statutes. The Contractor represents that the Contractor and its subcontractors are in compliance with the requirements of Article 2 of Chapter 64 of the North Carolina General Statutes.

**IRAN DIVESTMENT ACT:** The Contractor hereby certifies that, it is not on the Iran Final Divestment List created by the North Carolina State Treasurer pursuant to N.C.G.S. 147-86.58. The Contractor shall not utilize in the performance of the Agreement any subcontractor that is identified on the Iran Final Divestment List.

**EQUAL EMPLOYMENT OPPORTUNITY CLAUSE:** The City has adopted an Equal Employment Opportunity Clause, which is incorporated into all specifications, purchase orders, and contracts, whereby a vendor agrees not to discriminate against any employee or applicant for employment on the basis of race, color, religion, sex, national origin or ancestry. A copy of this clause may be obtained at the City Clerk's Office, City Hall, and Greenville, NC. By submitting qualifications and/or proposals, the firm is attesting that they are an Equal Opportunity Employer.

"Federal Law prohibits handicapped discrimination by all governmental units. By submitting a proposal, the vendor is attesting to its policy of nondiscrimination regarding the handicapped."

**Attachment III**

SUBMIT PROPOSALS IN CARE OF:

Community Development Division  
City of Greenville  
201 West 5<sup>th</sup> Street  
Greenville, NC 27858  
(252) 329-4503

BIDDER'S FIRM NAME \_\_\_\_\_

DATE: \_\_\_\_\_

**PROPOSAL: 507 Roosevelt Avenue**

The Undersigned, as Bidder, hereby declares that only person or persons interested in this proposal as principals or principals is or are named herein and that no other persons than herein mentioned has any interest in this proposal or in the contract to be entered, that this proposal is made without connection with any other person, company or parties making a bid or proposal; and that it is in all respect fair and in good faith without collusion or fraud.

The bidder further declares that he has examined the site of the work and informed himself fully in regard to all conditions pertaining to the place where the work is to be done; that he has examined the specifications for the work and the contract documents relative thereto, and has read all special provisions furnished prior to the opening of bids, that he has satisfied himself relative to the work to be performed.

Materials to be furnished shall be in compliance with standard specifications and special provisions. CONTRACTOR'S responsibility shall continue uninterrupted until expiration of the warranty period as stated in the specifications after completion of the work.

The Bidder agrees, if his proposal is accepted, to contract with the City of Greenville in the form of contract specified, to furnish all necessary materials, equipment, machinery, tools, apparatus, means of transportation, and labor necessary to complete within the time allotted as specified, the General demolition work on the property, in complete accordance with the Plans, Specifications, and Contract Documents bearing the title 507 Roosevelt Avenue Demolition, with a definite understanding that no money will be allowed for extra work except as set forth in the Contract Documents for the sums as follows:

Base Bid:

\$ \_\_\_\_\_ ) \_\_\_\_\_ dollars

Respectfully submitted this \_\_\_\_\_ day of \_\_\_\_\_, 2017.

Signature: \_\_\_\_\_

Title: \_\_\_\_\_

Firm: \_\_\_\_\_

Address: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

*Docs #1085352-v1*

Attachment IV

**Enviro Assessments East, Inc.**  
*Asbestos-Lead-Mold Inspections & Abatement*

10705 Hwy 55 West  
Dover, NC 28526  
Phone (252) 527-3052  
FAX (252) 527-3055  
Email Josh@eae-inc.com  
www eae-inc.com

Inspection # - ASB18-0503-02

Thursday, May 3, 2018

Mr. Virgil Smith  
City of Greenville  
200 West 5<sup>th</sup> Street  
Greenville, NC 27834

Reference: Asbestos Inspection Report  
507 A and B Roosevelt Street - Duplex  
Greenville, NC 27834

Dear Mr. Smith,

Enviro Assessments East, Inc. (EAE, Inc.) has completed the Asbestos Survey of the Property located at 507 A/B Roosevelt Street in Greenville, NC. We are pleased to provide you with this report, and if there are any questions please let us know.

Description of Services

An Asbestos Survey was performed on April 30<sup>th</sup>, 2018 by NC Licensed inspector Jason T. Simpson (NC Inspector # 12882). The inspection was conducted in general accordance with the U.S. Environmental Protection Agency requirements and in General accordance with the North Carolina Health Hazards Control Unit. This inspection was performed in preparation for the demolition of the duplex located on site.

Inspection Process

EAE, Inc. began the survey by determining homogeneous areas within each structure. Those areas are defined as having suspect materials that are alike based upon location, material type, color, texture, and time period of installation. Representative bulk samples were collected of each homogeneous area of each structure. EAE, Inc. observed all areas in and around the structure(s). These are the areas that were subject to being affected during renovation or demolition activities, and those that may not be affected as well. EAE, Inc. investigated these areas to the best of our ability. All state and federal regulations were adhered to regarding this survey. This survey may exclude any items that may have been concealed at the time of the inspection, or overlooked due to the description of the future of the structure. These exclusions may include multiple layer wall or ceiling finishes, multiple layer floor coverings, materials located above fixed ceiling systems, or in wall or floor chases that are not readily available or visible, and inaccessible areas of the structure.

As a minimum, 2 samples were taken of each material. These account for a total of 24 Bulk samples taken for analysis and 2 additional layers separated by the lab for a total of 26 Samples. All samples were double bagged and sent along with a chain of Custody (Attached) to a National Voluntary Laboratory Accreditation Program (NVLAP) approved laboratory for analysis. The samples were analyzed using Polarized Light Microscopy (PLM).

**Results and Recommendations**

According to the laboratory report, none of the 26 samples were found to contain asbestos. If additional materials are uncovered during demolition or renovations those materials are to be presumed to contain asbestos until further sampling is performed.

**No Positive Results Found**

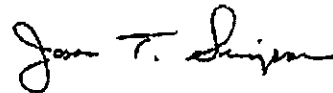
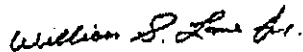
**Limitations**

To the best of my knowledge, no other asbestos containing materials were found that were sampled in this survey. Before a building is to be renovated or demolished, all asbestos material that will be disturbed should be removed by a North Carolina State Licensed Asbestos Contractor using only licensed workers and supervisors.

If during demolition or remodeling any other suspect asbestos material is discovered, stop work immediately and presume or test those materials for asbestos.

Sincerely,

Sincerely,



William S. Lane Jr., President  
Enviro Assessments East, Inc

Jason T. Simpson, Estimator/PM  
Enviro Assessments East, Inc

NC Asbestos Inspection # 12021  
NC Asbestos Supervisor # 33514  
NC General Contracting # 60742  
NC Lead Firm # FPB-0292  
NC RRP # RRP-0943  
NC Lead Supervisor # 130279  
VA & SC License upon Request

NC Asbestos inspector # 12882  
NC Asbestos Supervisor # 34329





**EMSL Analytical, Inc.**  
 2500 Gateway Centre Blvd., Suite 600 Morrisville, NC 27560  
 Tel/Fax (919) 465-3900 / (919) 465.3950  
 http://www.EMSL.com / raleighlab@emsl.com

EMSL Order: 291803634  
 Customer ID: EVAS42  
 Customer PO:  
 Project ID:

Attention: Sammy Lane  
 Enviro Assessments  
 10705 Hwy 55 W  
 Dover, NC 28526

Phone: (252) 527-3052  
 Fax: (252) 527-3055  
 Received Date: 05/02/2018 10 00 AM  
 Analysis Date: 05/02/2018  
 Collected Date: 04/30/2018

Project: City of Greenville, Dup'x @ 507 A/B Roosevelt Ave, Greenville, NC 27834

**Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy**

Sample	Description	Appearance	Non-Asbestos		Asbestos % Type
			% Fibrous	% Non-Fibrous	
1 291803634-0001	Roof - Shingle	Black Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
2 291803634-0002	Roof - Shingle	Black Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
3 291803634-0003	Roof - Felt	Black Fibrous Homogeneous	65% Cellulose	35% Non-fibrous (Other)	None Detected
4 291803634-0004	Roof - Felt	Black Fibrous Homogeneous	60% Cellulose	40% Non-fibrous (Other)	None Detected
5 291803634-0005	Windows - Gaze	White/Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
6 291803634-0006	Windows - Gaze	Gray Fibrous Homogeneous	2% Wollastonite	98% Non-fibrous (Other)	None Detected
7 291803634-0007	Windows & Doors - Caulk	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
8 291803634-0008	Windows & Doors - Caulk	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
9-Skim Coat 291803634-0009	T/O - Plaster (Base & Skim)	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
9-Base Coat 291803634-0009A	T/O - Plaster (Base & Skim)	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
10-Skim Coat 291803634-0010	T/O - Plaster (Base & Skim)	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
10-Base Coat 291803634-0010A	T/O - Plaster (Base & Skim)	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
11 291803634-0011	T/O Behind Plaster - Wallboard	Brown/Gray Fibrous Homogeneous	20% Cellulose 5% Glass	75% Non-fibrous (Other)	None Detected
12 291803634-0012	T/O Behind Plaster - Wallboard	White Fibrous Homogeneous	15% Cellulose	85% Non-fibrous (Other)	None Detected
13 291803634-0013	Kit & Bath (Top Layer - Side B) - Vinyl Floor	Brown/Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
14 291803634-0014	Kit & Bath (Top Layer - Side B) - Vinyl Floor	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 05/02/2018 13:49:59



**EMSL Analytical, Inc.**  
 2500 Gateway Centre Blvd., Suite 600 Morrisville, NC 27560  
 Tel/Fax (919) 465-3900 / (919) 465-3950  
 http://www.EMSL.com / raleigh.ab@emsl.com

EMSL Order: 291803634  
 Customer ID: EVAS42  
 Customer PO:  
 Project ID:

**Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy**

Sample	Description	Appearance	Non-Asbestos		Asbestos % Type
			% Fibrous	% Non-Fibrous	
15 291803634-0015	Bath (Top Layer - Side B) - Floor Tile	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
16 291803634-0016	Bath (Top Layer - Side B) - Floor Tile	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17 291803634-0017	Bath (Bottom Layer - Side B) - Vinyl Floor	Tan/Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
18 291803634-0018	Bath (Bottom Layer - Side B) - Vinyl Floor	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
19 291803634-0019	Kit - Side A - Vinyl Floor	Tan Fibrous Homogeneous	50% Cellulose	50% Non-fibrous (Other)	None Detected
20 291803634-0020	Kit - Side A - Vinyl Floor	Tan Fibrous Homogeneous	45% Cellulose	55% Non-fibrous (Other)	None Detected
21 291803634-0021	Bath - Side A - Vinyl Floor	Gray/Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
22 291803634-0022	Bath - Side A - Vinyl Floor	Brown/Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
23 291803634-0023	Under Subfloor T/O - Felt	Black Fibrous Homogeneous	85% Cellulose	35% Non-fibrous (Other)	None Detected
24 291803634-0024	Under Subfloor T/O - Felt	Black Fibrous Homogeneous	80% Cellulose	40% Non-fibrous (Other)	None Detected

Analyst(s):  
 Joshua Moorman (13)  
 Olivia Bradley (13)

*Billy Barnes*  
 Billy Barnes, Asbestos Lab Manager  
 or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations, interpretation, and use of test results are the responsibility of the client. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-fibrous organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request. Unless requested by the client, building materials manufactured with multiple layers (e.g. linoleum, wallboard, etc.) are reported as a single sample. Reporting unit is 1%.

Samples analyzed by EMSL Analytical, Inc. Morrisville, NC NVLAP Lab Code 200671-0, VA 3333 000278 WVA LT000298

Initial report from: 05/02/2018 13:49:59

Order ID: 291803634

Order ID: 291803634

City of Greenville, Duplex @ 507 A/B Roosevelt Ave, Gree  
5/2/2018 10:0 TAT: 24 Hour Bulk

No Samples: 24  
Due: 05/03 10:00 AM  
Fax: 252-527-3055

enviro Assessments East, Inc.  
10705 Hwy 55 West  
Dover, NC 28526  
Contact: Sammy Lane  
PH# 252-560-3363 Fax#252-527-3055  
Email: eae200@embarqmail.com  
labresults@eae-inc.com

**LABORATORY TEST REQUEST**

Laboratory Name: EMSL Analytical, Inc.  
Account Name: City of Greenville  
Survey Site: Duplex @  
Address: 507 A/B Roosevelt Ave  
Greenville, NC 27834

Sample Type: Asbestos Bulk	Analysis Type: PLM	Date Shipped: 4/30/18
Turn Around Time: 24 HR	# of Samples: 24	Date Collected: 4/30/18
Special Instructions/Notes		

Sample #	Sample type	Location	P/S
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1	Shingle	Roof	
2	"	"	
3	Felt	"	
4	"	"	
5	Glgze	Windows	
6	"	"	
7	Caulk	" + Doors	
8	"	"	
9	Plaster (Base + Skin)	T/lo - -	
10	"	"	
11	Wall Board	" Behind Plaster	
12	"	"	
13	Vinyl floor	KIT + Bath (Top Layer - Side B)	
14	"	"	
15	Floor Tile	Bath " " " "	
16	"	" " " "	
17	Vinyl floor	Bath (Bottom Layer " " )	
18	"	" " " "	
19	"	KIT - Side A	
20	"	" " "	
21	"	Bath " "	
22	"	" " "	
23	Felt	Under Subfloor T/lo	
24	"	" " "	
25			
26			

*Don't separate layers*

**CHAIN OF CUSTODY RECORD**

EAE 795464502797

DATE/TIME	CONDITION OF SAMPLE	SAMPLES RECEIVED BY:	SAMPLES RELEASED BY:
4/30/18	Double Bagged	<i>[Signature]</i> 5/2/18	<i>[Signature]</i>