UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 4
ATLANTA FEDERAL CENTER
61 FORSYTH STREET, S.W.
ATLANTA, GEORGIA 30303-8960

January 25, 2018

(b)(6)
[redacted]

SUBJ: EPA Asbestos Removal at 201 Eden Street

Dear (b)(6):

Enclosed, you will find the Removal Action Status Report for the property located at 201 Eden Street in Davidson, North Carolina. The report summarizes information regarding the original asbestos sampling, a description of the Removal Action conducted on the property, a summary of multimedia sampling results, details on the restoration of the property and the timeframe of the Removal Action. We have also included a figure of the removal area and the air sampling locations, a table of the air sampling results and photographs of the removal activities.

The removal activities have been completed and there are no further actions needed on the above-mentioned property. If you have any questions or need further information, please do not hesitate to contact Jordan Garrard, US EPA, Federal On-Scene Coordinator directly at (678) 644-8648, via email: garrard.jordan@epa.gov or myself directly at (678) 575-8132, via email: miller.angela@epa.gov, at any time.

It was such a pleasure working with you and your community. Thank you for your cooperation and patience throughout the removal activities.

Sincerely,

Angela R. Miller, US EPA
Community Involvement Coordinator

Enclosure(s)

cc: Jordan Garrard, US EPA, Federal On-Scene Coordinator
Miguel Alvalle, NC DEQ

REMOVAL ACTION STATUS REPORT
DAVIDSON ASBESTOS

Property Address: 201 Eden Street, Davidson, Mecklenburg County, North Carolina

Original Asbestos Sampling Information: Surface soil samples were collected at a depth of 0 to 3 inches below ground surface (bgs) and subsurface soil samples were collected at a depth of 3 to 6 inches bgs. Analytical results are reported in increments of 0.25 percent asbestos.

Property Address	Area Sampled	Surface Soil Results (percent asbestos) 0-3 inches deep	Subsurface Soil Results (percent asbestos) 3-6 inches deep
201 Eden Street	Front Yard	0.25	0.5
	Back Yard	No Asbestos Detected	No Asbestos Detected
	Garden	No Asbestos Detected	No Asbestos Detected

Description of Removal Action: The soil was excavated to an approximate maximum depth in the following areas: lawn to 36 inches and tree and residential drip line areas to 3 inches (see Appendix 1). During excavation of the lawn, a gray, clay-like, fibrous material was discovered and appeared to extend from the eastern side of the residence south toward the railroad tracks. Excavation of this material was confined to the property and areas where the material was visible along the eastern side of the excavation area. Visual inspections of the excavated areas for asbestos-containing materials (ACM) were conducted by a State of North Carolina-accredited asbestos inspector and air monitor. Additional removal was conducted in those areas where ACM were still visibly present and accessible. Once ACM was no longer visibly present or accessible, restoration of the excavated areas was allowed to commence.

Summary of Multimedia Sampling Results: Perimeter air sampling was conducted at two stationary locations during removal activities from July 17 through July 18, 2017. Air sampling was conducted daily at one of those locations based on wind direction and removal activities. The analytical results were less than the limit of detection and ranged from less than 0.00028 fibers per cubic centimeter (f/cc) to less than 0.0023 f/cc (See Appendix 2). One bulk material sample was collected from the gray, clay-like, fibrous material located in the excavation area on the eastern side of the residence and the analytical result detected 65 percent chrysotile asbestos. A 7-point composite soil sample was collected from the excavated areas before restoration began, and the analytical result detected a soil concentration of 0.25 percent chrysotile asbestos.

Perimeter air and composite soil samples were collected by a State of North Carolina-accredited air monitor with oversight from a State of North Carolina-accredited supervising air monitor (SAM).

Restoration of Property: Restoration work included installation of snow fencing and red "Danger Asbestos" tape on top of the subsurface of the excavated area, backfill, topsoil, and sod in the excavated lawn areas and topsoil and mulch around the tree lines. All areas were restored to the original height of the surrounding grade.

REMOVAL ACTION STATUS REPORT
DAVIDSON ASBESTOS

Time Frame of Removal Action: Removal activities began on July 17, 2017, and were completed on July 18, 2017.

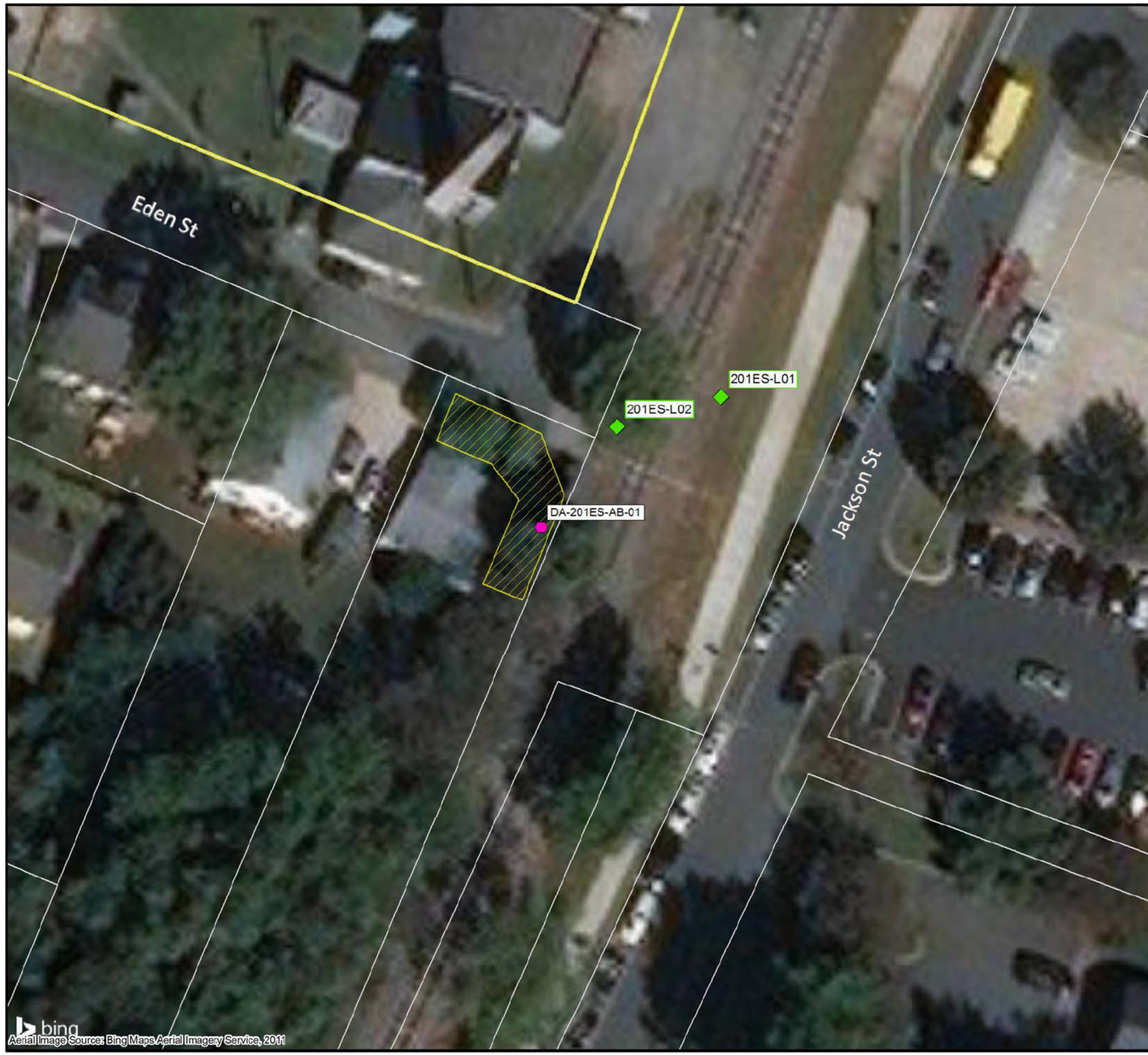
Appendices to this report include:

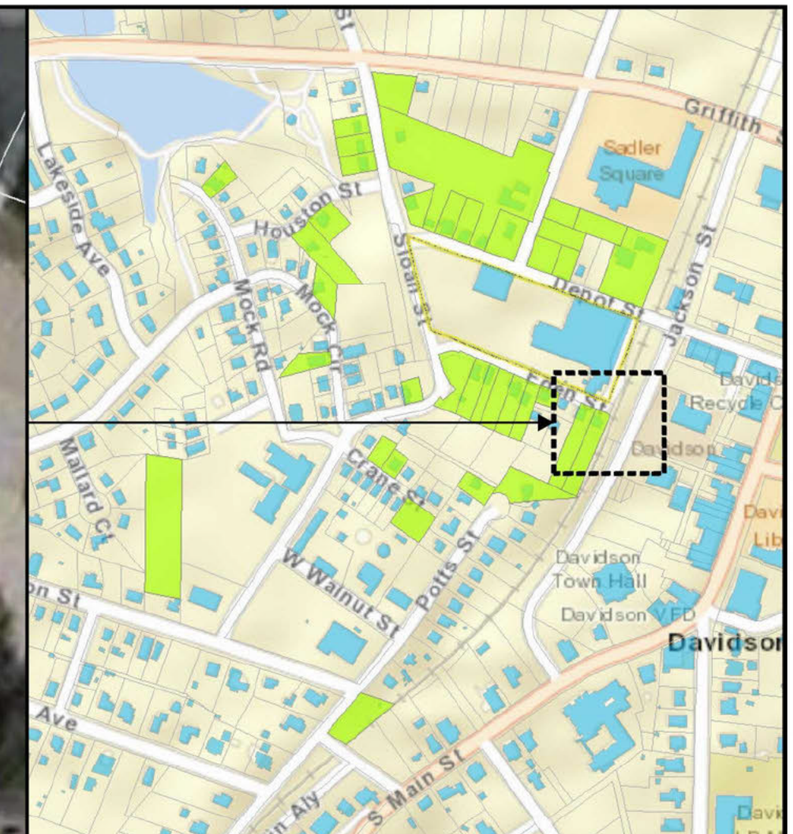
1. Figure of removal area and air sampling locations
2. Table of air sampling results
3. Photographic log of removal activities

APPENDIX 1

FIGURE

(One Page)





Legend

- Bulk Asbestos Sample
- Air Sample
- Removal Area
- Parcel Boundary
- Approximate Site Boundary

Inset Map

- *Parcels with Removal Activities*
- Building/Structure

201 Eden Street

N
W E
S

0 25 50
Feet

Map Sources:
Aerial Imagery, Bing Maps, 2012-2014;
Parcels, http://maps.co.mecklenburg.nc.us

United States
Environmental Protection Agency
Region 4

FIGURE 1

Removal Areas and
Air Sampling Locations

TDD Name: Davidson Asbestos

TDD No.: TT-01-071

City:	County:	State:
Davidson	Mecklenburg	North Carolina

TETRA TECH

Date: 9/21/2017

Analyst: dale.vonbusch

File: C:\TT-01-071_Davidson_Asbestos\mxd\acm_working_mapbook_v3.mxd

APPENDIX 2

SUMMARY TABLE OF ANALYTICAL RESULTS

(One Page)

TABLE 1
TRANSMISSION ELECTRON MICROSCOPY RESULTS
DAVIDSON ASBESTOS
DAVIDSON, MECKLENBURG COUNTY, NORTH CAROLINA

Sample Id	Location	T	Pump No.	Time Start	Time Stop	Total (Min)	Pump Flow Rate (lpm)			Total Sample Volume (l)	PCM Results (f/cc)	Asbestos Fibers Detected	TEM Results in PCME (f/cc)
							Initial	Final	Average				
DA-201ES-AA-L01-071717	201 Eden Street - Location 1	AA	G6	8:58	13:57	299	10.49	10.69	10.59	3166.4	0.0023	0	<0.0023
DA-201ES-AA-L02-071817	201 Eden Street - Location 2	AA	G5	11:48	16:30	282	11.15	11.45	11.30	3186.6	0.00085	0	<0.00028

Notes:

<: Less than
AA: Area air sampling
DA: Davidson Asbestos
ES: Eden Street
f/cc: Fibers per cubic centimeter
Id: Identification
l: Liters
lpm: Liters per minute
Min: Minutes
Min: Minutes
PCM: Phase contrast microscopy
PCME: Phase contrast microscopy equivalent
TEM: Transmission electron microscopy

APPENDIX 3

PHOTOGRAPHIC LOG

(Eight Pages)

OFFICIAL PHOTOGRAPH NO. 1
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number:	TT-01-071	**Location:**	Davidson Asbestos
Orientation:	Southwest	**Date:**	July 17, 2017
Photographer:	Paul Prys, Tetra Tech, Inc. (Tetra Tech)	**Witness:**	None

Subject: The Emergency and Rapid Response Services (ERRS) contractor, Environmental Restoration, LLC (ER), used an excavator and hand tools to remove asbestos-containing materials (ACM) and asbestos-contaminated soil from the property located at 201 Eden Street. ER used hoses to wet the asbestos-contaminated soil during removal activities.

OFFICIAL PHOTOGRAPH NO. 2
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number:	TT-01-071	**Location:**	Davidson Asbestos
Orientation:	Southwest	**Date:**	July 8, 2017
Photographer:	Paul Prys, Tetra Tech	**Witness:**	None

Subject: During removal activities, a gray, clay-like, fibrous material was discovered and appeared to extend from the eastern side of the residence south toward the railroad tracks. Excavation of this material was confined to the property.

OFFICIAL PHOTOGRAPH NO. 3
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number:	TT-01-071	**Location:**	Davidson Asbestos
Orientation:	Southeast	**Date:**	July 17, 2017
Photographer:	Paul Prys, Tetra Tech	**Witness:**	None

Subject: ER placed plastic sheeting under the dump trucks to prevent asbestos-contaminated soil from falling onto the road during removal activities.

OFFICIAL PHOTOGRAPH NO. 4
U.S. ENVIRONMENTAL PROTECTION AGENCY

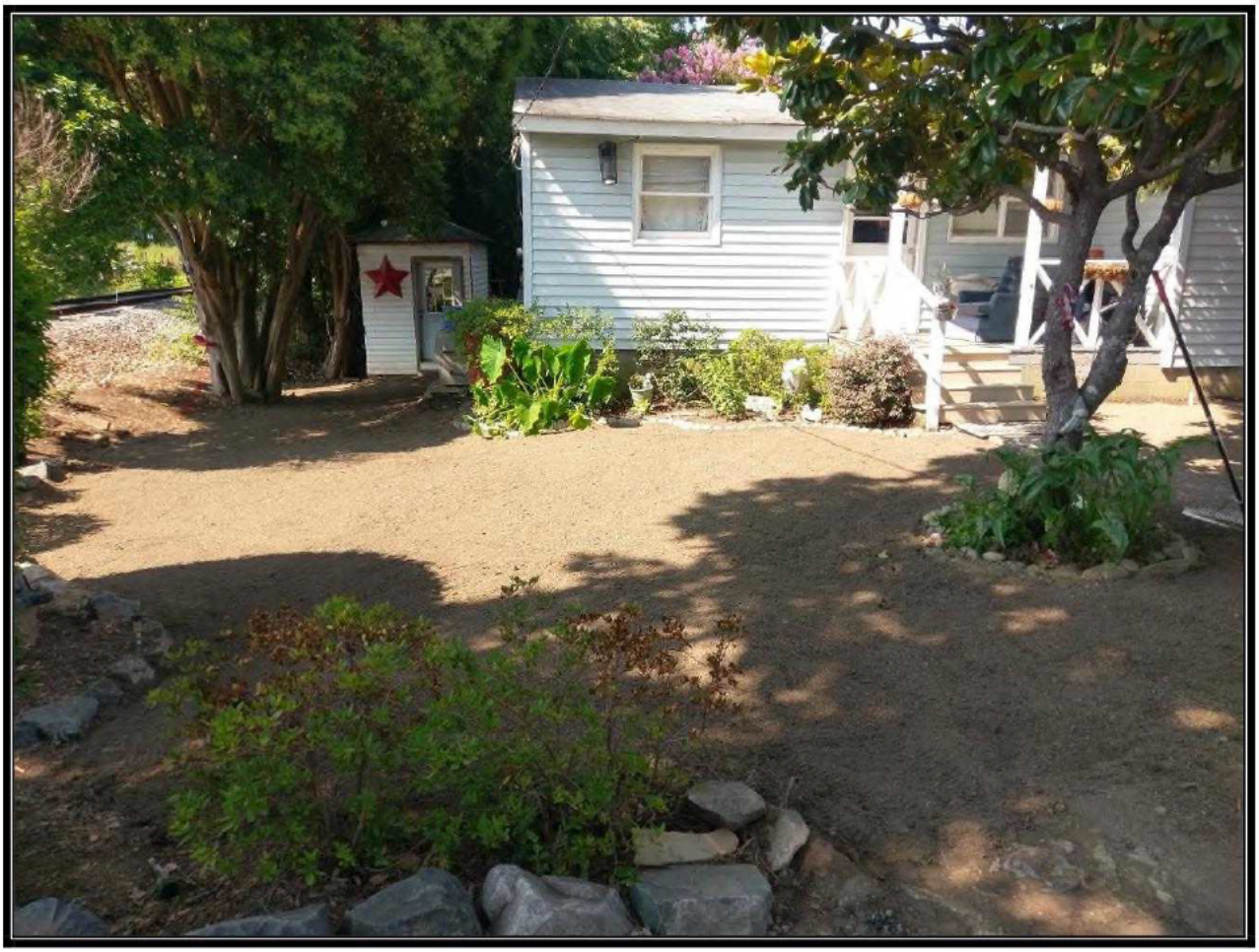
TDD Number:	TT-01-071	**Location:**	Davidson Asbestos
Orientation:	Southwest	**Date:**	July 17, 2017
Photographer:	Paul Prys, Tetra Tech	**Witness:**	None

Subject: Perimeter air sampling was conducted by a Tetra Tech START, State of North Carolina-accredited air monitor, to evaluate the effectiveness of engineering and safety controls in preventing the off-site migration of asbestos fibers during removal activities.

OFFICIAL PHOTOGRAPH NO. 5
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number:	TT-01-071	**Location:**	Davidson Asbestos
Orientation:	North	**Date:**	July 18, 2017
Photographer:	Paul Prys, Tetra Tech	**Witness:**	None

Subject: ER installed snow fencing along the subsurface of the excavated area after the visual inspection conducted by Tetra Tech START, State of North Carolina-accredited asbestos inspector and air monitor, detected no visible or accessible ACM in the excavated area. In addition to the snow fencing, ER installed red "Danger Asbestos" tape in those areas where the gray, clay-like, fibrous material was still visible or could be encountered during future excavations.



OFFICIAL PHOTOGRAPH NO. 6
U.S. ENVIRONMENTAL PROTECTION AGENCY

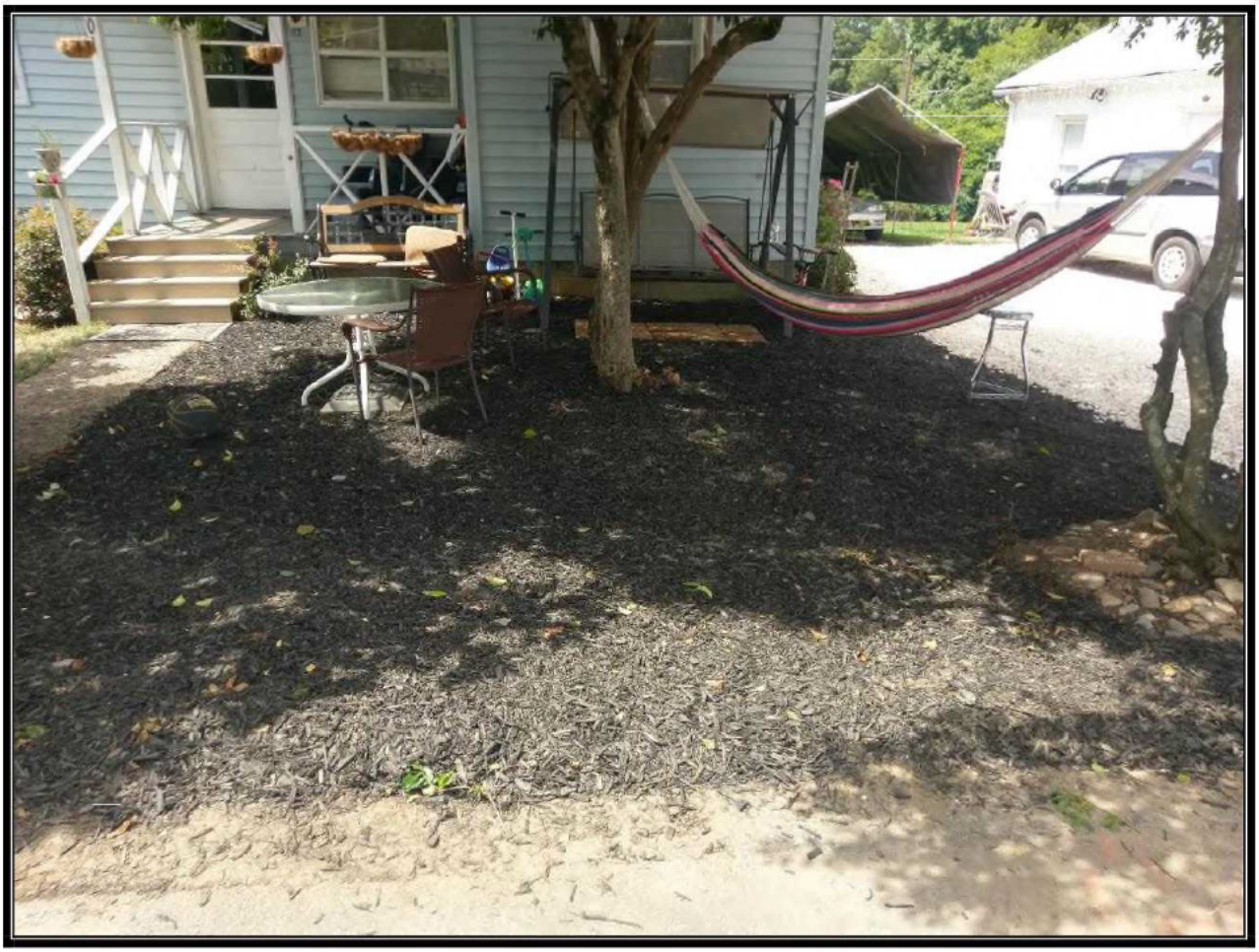
TDD Number:	TT-01-071	**Location:**	Davidson Asbestos
Orientation:	Southwest	**Date:**	July 19, 2017
Photographer:	Paul Prys, Tetra Tech	**Witness:**	None

Subject: ER used dump trucks, skid steers, and rakes to install backfill and top soil in the excavated areas.

OFFICIAL PHOTOGRAPH NO. 7
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number:	TT-01-071	**Location:**	Davidson Asbestos
Orientation:	South	**Date:**	July 24, 2017
Photographer:	Paul Prys, Tetra Tech	**Witness:**	None

Subject: ER installed sod in the excavated areas after backfill and topsoil installation were completed.



OFFICIAL PHOTOGRAPH NO. 8
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number:	TT-01-071	**Location:**	Davidson Asbestos
Orientation:	Southwest	**Date:**	July 24, 2017
Photographer:	Paul Prys, Tetra Tech	**Witness:**	None

Subject: ER installed mulch under the surface scraped tree line areas after top soil was in place.