

ENVIRONMENTAL COMPLIANCE & AREA COMPLETION PROJECTS

Baseline Asbestos Inspection Report of Building 710-16D



Q-APG-D-00019
October 21, 2020



Savannah River
Nuclear Solutions, LLC
A Fluor Daniel Partnership

INTEROFFICE MEMORANDUM

Q-APG-D-00019
RSM Track Number 10755

October 21, 2020

TO: Andrew Macmillan, 730-4B

FROM: Heath McGregor, 730-4B

BASELINE ASBESTOS INSPECTION REPORT OF BUILDING 710-16D

On October 15, 2020, an inspection was performed to evaluate electrical wire insulation and other electrical components inaccessible during the November 2019 inspection.

On November 21, 2019 an initial asbestos inspection was performed to determine the presence of any Asbestos Containing Material (ACM) in building 710-16D. Constructed in 1993, building 710-16D is a wood frame structure with a footprint of approximately 1,700 square feet. The building is supported by a concrete foundation and is finished with vinyl siding and a shingled roof. The interior is divided into multiple rooms, some with plywood finished walls and concrete slab floors. Additional loft space (separated by a clear span section down the center of the building) is above the rooms. Ten (10) skylights provide natural lighting to the interior of the building. The building is slated for demolition and was unoccupied at the time of this inspection.

Two (2) homogenous types of material were evaluated during this inspection. Please see the attached Inspection Survey Table for descriptions and locations of the materials inspected. No additional samples were collected during the completion of the 2019 inspection. Results from samples collected in a 2009 inspection have been reproduced and added to the Inspection Survey Table.

SUMMARY

All accessible, visible, suspect ACM was evaluated at the time of this inspection. Polyisocyanurate board with foil backing (observed behind the vinyl siding) was the only visible Thermal System Insulation (TSI) observed during the completion of this inspection. This type of insulation does not contain asbestos. This evaluation was based on visual inspection and tactile inspection, material knowledge, document review, and sample collection for laboratory analyses. No suspect material was discovered during the follow-up inspection of electrical wiring and electrical components.

All samples were analyzed by Polarized Light Microscopy (PLM). The South Carolina Department of Health and Environmental Control (SCDHEC) Regulation 61-86.1, requires additional Transmission Electron Microscopy (TEM) on organically bound samples to confirm the negative PLM results.

Samples collected in 2009 were analyzed at the SRNS LLC. Industrial Hygiene Laboratory, which is accredited by the American Industrial Hygiene Association (AIHA) Laboratory Quality Assurance Program (LQAP) in the Field of Testing (FoT)/Polarized Light Microscopy (PLM). The laboratory ID number is 100642. TEM samples were analyzed by the Davis and Floyd/RJ Lee Group, Inc.

In accordance with 40CFR part 61.145, a **ten-day notification** must be filed with SC DHEC prior to demolition.

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<u>ASBESTOS INSPECTOR</u>	<u>INSTITUTION</u>	<u>CERT. NO.</u>	<u>STATE</u>	<u>EXP. DATE</u>
Heath McGregor	Greenville Tech College	203-EVT502-093	SC	07/28/2021

Included on the SRS Long-term in-house Group license ABS 8021

<u>ASBESTOS INSPECTOR</u>	<u>INSTITUTION</u>	<u>CERT. NO.</u>	<u>STATE</u>	<u>EXP. DATE</u>
Mikell Autrey	Greenville Tech College	203-ETV502-089	SC	07/28/2021

Included on the SRS Long-term in-house Group license ABS 8021

C: C.R.F., 773-52A
Site D&D Correspondence File
J.K. Barrineau, 730-4B
Mark Wright, 705-3C Room 126

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INSPECTION SURVEY TABLE OF BUILDING 710-16D

Homogeneous Number	Suspect/Non-Suspect Material	Description and Sample Numbers of Material	Test Results
H01OB	Miscellaneous	Description: Black colored felt paper Sample Numbers: 71016D090225-01A, 71016D090225-01B, 71016D09022501C Sample Number: 71016D090225-01A analyzed via TEM	Negative See Note 1.
Location: Applied to plywood roof (underneath shingles).			
H02OB	Miscellaneous	Description: Black colored asphaltic shingles Sample Numbers: 71016D090225-02A, 71016D090225-02B, 71016D090225-02C Sample Number: 71016D090225-02A analyzed via TEM	Negative
Location: Observed on roof of the building.			

1. Negative = no asbestos fibers were detected during laboratory sample analysis.

OSR 4-434 (Rev 11-6-2008)

Savannah River Site
Industrial Hygiene Laboratory
Building 735-B, Room 310
Aiken, SC 29808
Phone: (803) 952-7449/7459
Fax: (803) 952-7881

Industrial Hygiene Chain of Custody Lab Report

Page <u>1</u> of <u>1</u>	Cost Code PRD70391E	Lab Log-In No. _____
Contaminant(s) Suspect Asbestos at 710-16D	Lab Report No. Required <input checked="" type="radio"/> EBL <input type="radio"/> F/H Lab EBL-IH	Lab Method No. and Name NIOSH 9003 (PCM)
Submitted By (Print/Signature) Charles Carter <i>Charles Carter</i>	2009-0122-	Lab Book and Page No. 09-0104-0109
Audited By (Print/Signature) Russ Cochran <i>Russ Cochran</i>		Disk No. Verbal Results Given (To Whom) How (Check One) <input type="radio"/> Person <input checked="" type="radio"/> Voice Mail
		Date/Time Verbal Results Given /

Sample ID	Sample Media/Size	Requested TAT*	Results/Unit	Reporting Limit	Remarks
71016D090225-01A		3/18/09	< 1%	1% Asbestos	H010B Black felt paper on roof & plywood
71016D090225-01B		3/18/09	< 1%	↓	H010B Black felt paper on roof & plywood
71016D090225-01C		3/18/09	< 1%		H010B Black felt paper on roof & plywood
71016D090225-02A		3/18/09	< 1%		H020B Roof shingles
71016D090225-02B		3/18/09	< 1%		H020B Roof Shingles
71016D090225-02C		3/18/09	< 1%		H020C Roof Shingles

NOTE: Results relate only to the items tested.
NOTE: Results are not corrected for contamination based on the field blank or other analytical blank.

Analyst/Signature <i>Edna Cook</i>	Date Analyzed 3-16-09	Reviewed By (Print) M Berard	Signature (Lab Director or Designee) <i>Maurice Berard</i>	Date 3-17-09
Analyst/Signature <i>Edna Cook</i>	Date Report Mailed 3-17-09	Report Received By (Print)	Signature (Field Use Only)	Date Received

Comments
Samples rec'd in good condition m/s 3/17/09

Chain of Custody

NOTE: Samples from Radiological Contamination areas must be submitted to 772-F unless free release criteria are met.

Relinquished By				Received By			
Name	Signature	Date	Time	Name	Signature	Date	Time
Charles Carter	<i>Charles Carter</i>	3/4/2009	1330	RM Cooke	<i>RM Cooke</i>	3/5/09	0950

*TAT - Turn Around Time Disk No. - Only applicable to asbestos fiber counting.
Retention - Permanent



LABORATORY ANALYSIS REPORT

April 2, 2009

James Koch II
Savannah River Nuclear Solutions, LLC
735-B Room 133
Aiken, SC 29804-6809

Re: Job 09071 Asbestos Analysis -- TEM

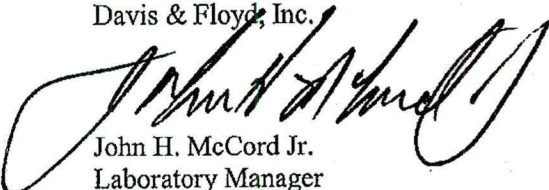
On March 25, 2009, the Davis & Floyd, Inc. laboratory received two solid waste sample from the Savannah River Nuclear Solutions LLC. The sample listed on the Chain-of-Custody (COC) form arrived at Davis & Floyd Laboratory intact. A fourteen-day turnaround was requested on the COC.

The samples were subcontracted to the RJ Lee Group, Inc. in Monroeville, PA for analysis of Asbestos by TEM. The sample(s) were received by the RJ Lee Group and logged in for analysis on March 27, 2009 as follows:

SRNS ID	RJ Lee Sample Number
09071-71016D090225-01A	0165230.HT
09071-71016D090225-02A	0165231.HT

Enclosed are the Chain-of-Custody Records and the RJ Lee Group laboratory analysis report. Please contact me if you have any questions.

Sincerely,
Davis & Floyd, Inc.



John H. McCord Jr.
Laboratory Manager

Enclosure:

CHAIN-OF-CUSTODY

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Q-APG-D-00019

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Laboratory

09071	Customer Name: Carter, Charles	RL	Company: Davis & Floyd
	Customer Department: SDD		816 East Durst Ave.
Contract Number AC39041N	Customer Address: 707-49B	Ship to: Address: Greenwood, SC 29649	Attention: Carl Burrell, 864-229-4413
	Customer Phone/Beeper: 507-4764 20730		

Washington Savannah River Company Aiken, SC 29808 Environmental Services Section Waste Sample Management Group COC creation date. 3/20/09 Matrix: S=Soil, SO=Solid, SL=Sludge, O=Organic, A=Aqueous, SM=Smear Sample Analysis Requested TEM for Asbestos (362)	Sample ID:	09071-71016D090225-01A	Sample ID:	09071-71016D090225-02A	Sample ID:	
	Collect Date	2/25/09	Collect Date	2/25/09	Collect Date	
	Collect Time	0800	Collect Time	0800	Collect Time	
	No. Containers	1	No. Containers	1	No. Containers	
	Matrix	SOLID	Matrix	SOLID	Matrix	

14 Day TAT RAD SCREEN REQUIRED? NO STR Authorization *RWL for J. Koch*

1 Relinquished by:	Date/Time	Received by:	2 Relinquished by:	Date/Time	Received by:
(Print) <i>Tom Cooke</i>	Date <i>3/23/09</i>	(Print) <i>C. Lewis</i>	(Print) <i>C. Lewis</i>	Date <i>3/23/09</i>	(Print) <i>Minnie Hightower</i>
(Sign) <i>Tom Cooke</i>	Time <i>1355</i>	(Sign) <i>C. Lewis</i>	(Sign) <i>C. Lewis</i>	Time <i>1420</i>	(Sign) <i>Minnie Hightower</i>
3 Relinquished by:	Date/Time	Received by:	4 Relinquished by:	Date/Time	Received by:
(Print) <i>Minnie Hightower</i>	Date <i>3/24/09</i>	(Print) <i>C.L.S.</i>	(Print)	Date <i>3.25.09</i>	(Print) <i>Tisa S. Hall</i>
(Sign) <i>Minnie Hightower</i>	Time <i>1000</i>	(Sign) <i>Shipping</i>	(Sign)	Time <i>11:15</i>	(Sign) <i>Tisa S. Hall</i>

Cooler # 0530
7 of 10



RJ Lee Group, Inc.
 350 Hochberg Road, Monroeville, PA 15146
 Tel: (724) 325-1776 | Fax: (724) 733-1799

Final Laboratory Report

TEM Compositional Analysis

Mr. John H. McCord, Jr.
 Davis & Floyd, Inc.
 P.O. Drawer 428
 Greenwood, SC 29649
 USA

Report Date: 4/1/2009
 Sample Receipt Date: 3/27/2009
 RJ Lee Group Job No.: ATH903027
 Authorization/P.O. No.:
 Samples Received: 2
 Client Job No./Name: 62664_01

Method: Chatfield Technical Consulting Limited, SOP-1988-02.Rev1.

Client Sample Number	RJLG Sample Number	Sample Description	Starting Weight (gm)	Weight Percent						Amphibole Type
				Organic	Acid Soluble	Residue	Chry	Amph	Total Asbestos	
09071-71016D0 90225-01A	0165230.HT		0.22560	96	Trace	3	0	0	0	
09071-71016D0 90225-02A	0165231.HT		0.24720	27	60	13	0	0	0	

Authorized Signature: _____

/mb

Kimberly A. Allison, Manager - TEM Analysis

Notes:

1. "<" indicates results less than analytical sensitivity. "----" indicates that sample was not analyzed.
2. Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA #100364, NVLAP #101208-0, NY ELAP #10844) facility.
3. If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
4. Trace indicates <1% asbestos was identified.
5. Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, NSD-No Structures Detected.
6. Samples will be held for 90 days and then disposed of per Federal regulations.
7. These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which these results are used or interpreted.

DISCLAIMER

Caution must be applied when interpreting the results of samples prepared using indirect sample preparation techniques. Studies have shown that indirect preparation techniques may result in substantial increases in the fiber count when compared to fiber counts which would have been obtained using direct sample preparation.

RJ Lee Group, Inc. is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for select test methods for airborne asbestos analysis (TEM), asbestos fiber analysis (PLM), New York Department of HEALTH Environmental Laboratory Program (ELAP), and by the American Industrial Hygiene Association (AIHA). This test report relates only to the items tested. This report may not be used to claim product endorsement by NVLAP, any agency of the US Government, or any other laboratory accrediting agency. Any reproduction of this document must be in full in order for the report to be valid. This report is not valid unless it bears the name of a NVLAP-approved signatory.

These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limiting provisions and no responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, RJ Lee Group will store the samples for a period of ninety (90) days before discarding. A shipping and handling fee will be assessed for the return of any sample.

P5



ATH903027

Chain of Custody Record

Client Davis & Floyd, Inc. Greenwood, SC 29649		Project / Site Location 62664_01		Laboratory Certification Numbers: SC - 24110, NC - 25, NELAP - E87633, TN - 2923, VA - 77 816 E. Durst Avenue, Greenwood, SC 29649 (864) 229-4413 Fax: (864) 229-7113 Email: Laboratory@davisfloyd.com Internet: www.davisfloyd.com				Office Use Only Laboratory Work Request	
Contact John H. McCord, Jr.		Report To John H. McCord, Jr.		Copy To jmccord@davisfloyd.com		Reporting Requirements: <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Data Package (Specify Level: 1 2 3 4) Turnaround Requirements: <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush (Specify:)		PO / Quota Number	TC
Collected By Tiso S. McCall / Sample Custodian		Atmospheric Conditions		Required Parameters, Containers and Preservatives (P):				Special Instructions	State
NOTICE:		Time sampling initiated (composite only)		(Optional)		PARALLELS		Indicate any known or suspected hazards, with # "X"	
Sample Description		Sample Collection		Composite		Grab		Matrix Type	
Date		Time		Type		Total		Fraction	
09071-71016D090225-01A		25-Feb 8:00		7		1		1	
09071-71016D090225-02A		25-Feb 8:00		7		1		1	
Relinquished By Tiso S. McCall		Date 3/26/09		Time 1450		Relinquished By		Date 03-27-09	
Received By		Date		Time		Received in Laboratory By M. Braxton		Date 03-27-09	
Time		Time		Time		Time		Time	
Comments		Flow Measurement (Note 1)		Beginning		Ending		Start Date:	
Comments		Multiplier		Not indicate immediate delivery for these shipments in which the temperatures does not have adequate time to reach 4°C.		Receipt Information		Cooler ID (if available):	
Comments		On Ice: Yes / No		Temp(C):		Immediate Delivery: Yes / No		Custody Seal: Intact / Broken / None	

Matrix Type Definitions 1 - Drinking Water 2 - Clean Water 5 - Groundwater 7 - Soil/Sediment 8 - Liquid Sludge 9 - Oil 12 - Air
 (P) Preservative Definitions A - None B - H2SO4 C - HCl D - HNO3 E - NaOH F - Filtered G - Other

(Note 1) For Discharge Measurements

Davis & Floyd, Inc.
 FL02_02 (01/05)