



Engineering LLC

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REVISED LIMITED ASBESTOS AND LEAD-BASED PAINT ASSESSMENT

**RALPH H. JOHNSON VETERANS ADMINISTRATION MEDICAL
CENTER
109 BEE STREET
CHARLESTON, SOUTH CAROLINA 29401**

Submitted to:

Harrell Design Group, P.C.
8016 Tower Point Drive
Charlotte, North Carolina 28227

Prepared by:

GEL Engineering, LLC
Post Office Box 30712
Charleston, South Carolina 29403

April 27, 2015

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EXECUTIVE SUMMARY

The revised limited asbestos assessment was conducted on November 10 & 21, 2014 and April 23, 2015 of the area of renovation at the Ralph H. Johnson Veterans Administration Medical Center (VAMC) located at 109 Bee Street in Charleston, South Carolina revealed the presence of Asbestos-Containing Materials (ACMs). The limited asbestos assessment was limited solely to the area of renovation. The areas of renovation were provided to GEL Engineering, LLC (GEL) by the Harrell Design Group, PC in their Request for Proposal dated September 22, 2014. The scope of the renovation entails building and system components in the defined geographical area as defined by Harrell Design Group, PC. GEL also reviewed the Triennial Asbestos Re-Inspection Report of the Ralph H. Johnson VAMC by Safety Environmental Laboratories and Consulting, Inc. The following table provides a summary of the ACMs that were identified in the Triennial Inspection Report and in GEL's limited asbestos assessment in the areas of renovation, and the estimated unit price for abatement of the material.

ACMs Description	Location	Quantity	Abatement Price
White Pipe Mastic	On Seams of Fibrous Glass Insulated Pipes- Room A259	6 SF	\$5.00/SF
White Pipe Mastic	On Surface of Nylon Reinforced Canvas Wrap over Fibrous Glass Insulation on AHU in Room A259	60 SF	\$5.00/SF
Black and Tan Mixed Mastics Associated with Blue/Red Carpet ⁽¹⁾	Room A209	160 SF	\$5.00/SF
9"x9" Blue Floor Tile and Associated Black Mastic	Room A212	4 SF	\$5.00/SF
9"x9" Cream Floor Tile ⁽¹⁾	Room A212	20 SF	\$5.00/SF
9"x9" Green with White Streaks Floor Tile and Associated Black Mastic	Room A247	40 SF	\$5.00/SF

Notes:

SF - Square Feet

LF- Linear Feet

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- 1) These ACMs are layered with non-asbestos containing material(s). Because the non-asbestos containing material(s) may be contaminated with the ACM, and cannot be separated from the ACMs surrounding it, they should be handled and disposed of as ACMs.

If the ACMs listed above will likely be disturbed during renovation activities, they should be handled in accordance with the applicable Occupational Safety and Health Administration (OSHA), South Carolina Department of Health and Environmental Control (DHEC), and United States Environmental Protection Agency (EPA) asbestos regulations. The OSHA, DHEC, and EPA requirements state that a licensed asbestos abatement contractor must properly handle and dispose of all disturbed ACMs before renovation activities. The contractor is responsible for verifying the quantities of ACMs listed above. If additional suspect ACMs are identified during the renovation activities, all work must cease until the materials are sampled by a licensed asbestos inspector. Any ACMs identified should be handled in accordance with the applicable OSHA, DHEC, and EPA asbestos regulations.

The limited Lead-Based Paint (LBP) assessment of the area of renovation conducted on November 10, 2014 of the VAMC revealed the presence of LBP. The following table provides a summary of paint samples that exceeded the United States EPA limit of 0.5% and/or the South Carolina DHEC limit of 0.06%, defining LBP.

Paint Color	Location	Concentration (%)
Cream Paint	On Metal Doors and Metal Door Trim Throughout Area of Renovation	0.16
Brown Paint	On Plaster Walls In Room A212	0.24

% - Percent by Weight

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1.0 Introduction

The Harrell Design Group, PC has requested that GEL Engineering, LLC (GEL) perform a limited asbestos and LBP assessment of the area of renovation at the VAMC located at 109 Bee Street in Charleston, South Carolina.

Ms. Sarah Browning, E.I.T., and Ms. Emily Walton, both licensed asbestos inspectors in the State of South Carolina from GEL, performed the limited asbestos and LBP assessment on November 10 and/or 21, 2014 and April 23, 2015. Their asbestos licenses and training certificates are included in Appendix 4.3.

The interior walls in the area of renovation consist of either a plaster wall system consisting of two layers: a skim coat layer and a base coat layer, or a gypsum board system consisting of two layers: a drywall layer and a joint compound layer.

The ceiling systems in the area of renovation consists of either the aforementioned plaster system, gypsum board system, or a suspended metal grid with lay-in ceiling tiles below a poured concrete roof deck.

The flooring in the area of renovation consists of various flooring materials and associated mastics. Please see Appendix 4.1, Table 1 for the specific flooring materials, associated mastics, layering of flooring materials, and the locations.

The space above the suspended ceiling tile system contains the ventilation ductwork servicing the Air Handling Units (AHUs). Insulation on the ventilation ductwork consists of aluminum foil-faced fibrous glass insulated flexible duct or un-insulated rectangular metal duct. Gray mastic was observed on approximately 10 square feet (SF) of the ventilation ductwork. Black mastic was observed on the majority (approximately 50 SF) of the ventilation ductwork seams and joints. White paper-faced fibrous glass insulated metal piping was also observed above the suspended ceiling tiles. A red caulking material was observed around the ceiling penetrations in Room A210, and in various locations above the suspended ceiling tile system.

The mechanical room (Room A259) contains the AHU servicing the Intensive Care Unit. The AHU and corresponding ventilation ductwork consists of nylon reinforced canvas wrap over fibrous glass insulated metal duct or un-insulated rectangular metal duct.

White mastic was observed on the seams and facing of the white canvas wrap. The other piping in the mechanical room consists of either paper-faced fibrous glass insulated copper piping or uninsulated metal piping. White mastic/sealant material was observed at the wall penetrations of the uninsulated metal piping and on the seams of the white paper-faced fibrous glass insulated metal pipes.

2.0 Limited Asbestos Assessment

2.1 Asbestos Investigative Procedures

The limited asbestos assessment was performed by observing and sampling suspect Asbestos-Containing Materials (ACMs) in the area of renovation. Significant destructive testing was not utilized.

Although reasonable effort was made to sample all suspect ACMs in the area of renovation, there is a potential that some areas of suspect ACMs introduced into the structure by undocumented renovations, and/or repairs may not have been detected. Additionally, suspect ACMs may be located in inaccessible areas in the area of renovation, such as wall cavities and pipe chases. If additional suspect ACMs are identified during renovation and/or demolition activities, all work should cease until the suspect ACM(s) is/are sampled by a licensed asbestos inspector.

Representative samples were collected from a variety of suspect ACMs. These samples were recorded on a Chain-of-Custody record and submitted to CEI Labs, Inc. (CEI) in Cary, North Carolina for analysis. CEI is accredited with the National Voluntary Laboratory Accreditation Program (NVLAP) administered by the National Institute of Standards and Technology (NIST).

The bulk samples of suspect material were analyzed utilizing Polarized Light Microscopy (PLM) coupled with dispersion staining and/or Transmission Electron Microscopy (TEM). The EPA recognizes a material as ACM if an asbestos content of greater than one percent by weight (> 1%) is detected in a representative sample.

2.2 Homogeneous Area Summary

The suspect friable and non-friable ACMs were grouped into homogeneous areas. A homogeneous area is an area that contains suspect ACM that is uniform in color, texture, and appears identical in every respect. Also, each sample was determined to be either friable or non-friable. A friable material is one that, when dry, can be crumbled, pulverized, or reduced to powder by the forces expected to act upon it in the course of demolition or renovation. Non-friable materials are not expected to be crumbled, pulverized, or reduced to powder by the forces expected during demolition or renovation. Additionally, non-friable materials are those materials in which fibers have been "locked in" by a bonding agent, coating, binder, or other material so that the

asbestos is bound and will not readily release fibers during normal handling or use. However, non-friable materials may become friable if improperly used or handled.

2.3 Limited Asbestos Assessment Results

The location, description, and condition of each suspect ACM sampled are included in Appendix 4.1, Table 1 for the PLM and TEM analysis. The Chain-of-Custody records and Certificates of Analysis are included in Appendix 4.2. If future renovation and/or demolition activities identify other suspect ACMs, a licensed asbestos inspector will need to sample the material(s) prior to commencing the aforementioned activities.

2.4 Conclusions and Recommendations

If additional suspect ACM(s) are identified during future repair, renovation, and/or demolition activities, all work should cease until the materials are sampled by a licensed asbestos inspector. Any ACM(s) identified should be handled in accordance with the applicable Occupational Safety & Health Administration (OSHA), South Carolina Department of Health & Environmental Control (DHEC), and United States Environmental Protection Agency (EPA) regulations.

3.0 Limited Lead-Based Paint (LBP) Assessment

3.1 LBP Investigative Procedures

GEL also conducted a limited lead-based paint (LBP) assessment that included collection of representative paint chip samples from interior painted building components in the scope of renovation, which may be disturbed during renovation/demolition activities.

Samples of each type of paint (based on the homogeneous color, substrate, and building component) were collected and submitted to CEI for analysis for lead content. The samples of paint chips were analyzed utilizing Flame Atomic Absorption Spectrometry (Flame AAS) as described in Solid Waste (SW) 846 Methods 3050B and 7420.

3.2 Limited LBP Results

The location and description of each suspect LBP surface are included in Appendix 4.1, Table 2.

Although some lead concentrations are below the EPA and DHEC limits defining LBP, OSHA lead regulations apply to any paint chip sample with lead concentrations above the laboratory limit of detection, and should be handled according to these regulations.

3.3 LBP Conclusions and Recommendations

The United States EPA specifies a positive determination of lead in paint when the lead content is greater than 0.5% by weight as measured by a laboratory analytical method. DHEC requires that any debris containing LBP, as determined by a laboratory analytical method to be greater than 0.06% by weight, must be disposed of at a Class II Landfill

[formally a Construction and Demolition (C&D) Landfill], that meets the May 2008 revised DHEC Land and Waste Management regulations.

APPENDIX 4.1

TABLE 1

TABLE 2

TABLE 1
ASBESTOS RESULTS - PLM & TEM ANALYSIS
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Sample Number	Description	Material Location	Type of Material	Total Amount	Type and % Asbestos	Condition
RV 1-1-A	Brown Swirled Patterned Rolled Vinyl Flooring and Associated Mixed Dark Brown and Yellow Mastics- <i>Flooring Only</i>	COR2A2, COR2A3, COR2A4, Rooms A214, A248, A250, A252, A253, A255A, A256, A257 , A255C and A259A	M	2,500 SF	ND	NA
RV 1-1-B	Brown Swirled Patterned Rolled Vinyl Flooring and Associated Mixed Dark Brown and Yellow Mastics- <i>Yellow Mastic Only</i>	COR2A2, COR2A3, COR2A4, Rooms A214, A248, A250, A252, A253, A255A, A256, A257 , A255C and A259A	M		ND	NA
RV 1-1-C	Brown Swirled Patterned Rolled Vinyl Flooring and Associated Mixed Dark Brown and Yellow Mastics- <i>Dark Brown Mastic Only</i>	COR2A2, COR2A3, COR2A4, Rooms A214, A248, A250, A252, A253, A255A, A256, A257 , A255C and A259A	M		ND	NA
RV 1-2-A	Brown Swirled Patterned Rolled Vinyl Flooring and Associated Mixed Dark Brown and Yellow Mastics- <i>Flooring Only</i>	COR2A2, COR2A3, COR2A4, Rooms A214, A248, A250, A252, A253, A255A, A256, A257 , A255C and A259A	M		ND	NA
RV 1-2-B	Brown Swirled Patterned Rolled Vinyl Flooring and Associated Mixed Dark Brown and Yellow Mastics- <i>Yellow Mastic Only</i>	COR2A2, COR2A3, COR2A4, Rooms A214, A248, A250, A252, A253, A255A, A256, A257 , A255C and A259A	M		ND	NA
RV 1-2-C	Brown Swirled Patterned Rolled Vinyl Flooring and Associated Mixed Dark Brown and Yellow Mastics- <i>Dark Brown Mastic Only</i>	COR2A2, COR2A3, COR2A4, Rooms A214, A248, A250, A252, A253, A255A, A256, A257 , A255C and A259A	M		ND	NA
RV 1-3-A*	Brown Swirled Patterned Rolled Vinyl Flooring and Associated Mixed Dark Brown and Yellow Mastics- <i>Flooring Only</i>	COR2A2, COR2A3, COR2A4, Rooms A214, A248, A250, A252, A253, A255A, A256, A257 , A255C and A259A	M		ND	NA
RV 1-3-B*	Brown Swirled Patterned Rolled Vinyl Flooring and Associated Mixed Dark Brown and Yellow Mastics- <i>Yellow Mastic Only</i>	COR2A2, COR2A3, COR2A4, Rooms A214, A248, A250, A252, A253, A255A, A256, A257 , A255C and A259A	M		ND	NA
RV 1-3-C*	Brown Swirled Patterned Rolled Vinyl Flooring and Associated Mixed Dark Brown and Yellow Mastics- <i>Dark Brown Mastic Only</i>	COR2A2, COR2A3, COR2A4, Rooms A214, A248, A250, A252, A253, A255A, A256, A257 , A255C and A259A	M		ND	NA

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Sample Number	Description	Material Location	Type of Material	Total Amount	Type and % Asbestos	Condition
RV 2-4-A	Brown with White Stripes Rolled Vinyl Flooring and Associated Mixed Yellow and Dark Brown Mastics- <i>Floor Tile Only</i>	Along Periphery of Corridor Outside of Room A211	M	200 LF	ND	NA
RV 2-4-B	Brown with White Stripes Rolled Vinyl Flooring and Associated Mixed Yellow and Dark Brown Mastics- <i>Yellow Mastic Only</i>	Along Periphery of Corridor Outside of Room A211	M		ND	NA
RV 2-4-C	Brown with White Stripes Rolled Vinyl Flooring and Associated Mixed Yellow and Dark Brown Mastics- <i>Dark Brown Mastic Only</i>	Along Periphery of Corridor Outside of Room A211	M		ND	NA
RV 2-5-A	Brown with White Stripes Rolled Vinyl Flooring and Associated Mixed Yellow and Dark Brown Mastics- <i>Floor Tile Only</i>	Along Periphery of Corridor Outside of Room A211	M		ND	NA
RV 2-5-B	Brown with White Stripes Rolled Vinyl Flooring and Associated Mixed Yellow and Dark Brown Mastics- <i>Yellow Mastic Only</i>	Along Periphery of Corridor Outside of Room A211	M		ND	NA
RV 2-5-C	Brown with White Stripes Rolled Vinyl Flooring and Associated Mixed Yellow and Dark Brown Mastics- <i>Dark Brown Mastic Only</i>	Along Periphery of Corridor Outside of Room A211	M		ND	NA
RV 2-6-A*	Brown with White Stripes Rolled Vinyl Flooring and Associated Mixed Yellow and Dark Brown Mastics- <i>Floor Tile Only</i>	Along Periphery of Corridor Outside of Room A211	M		ND	NA
RV 2-6-B*	Brown with White Stripes Rolled Vinyl Flooring and Associated Mixed Yellow and Dark Brown Mastics- <i>Yellow Mastic Only</i>	Along Periphery of Corridor Outside of Room A211	M		ND	NA
RV 2-6-C*	Brown with White Stripes Rolled Vinyl Flooring and Associated Mixed Yellow and Dark Brown Mastics- <i>Dark Brown Mastic Only</i>	Along Periphery of Corridor Outside of Room A211	M		ND	NA

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Sample Number	Description	Material Location	Type of Material	Total Amount	Type and % Asbestos	Condition
DW 3-7-A	Drywall and Joint Compound- <i>Drywall Only</i>	Walls and Ceilings in Rooms AA227, AA238, AA239, AA239A and AA243A	SM	3,580 SF	ND	NA
DW 3-7-B	Drywall and Joint Compound- <i>Joint Compound Only</i>	Walls and Ceilings in Rooms AA227, AA238, AA239, AA239A and AA243A	SM		ND	NA
DW 3-8-A	Drywall and Joint Compound- <i>Drywall Only</i>	Walls and Ceilings in Rooms AA227, AA238, AA239, AA239A and AA243A	SM		ND	NA
DW 3-8-B	Drywall and Joint Compound- <i>Joint Compound Only</i>	Walls and Ceilings in Rooms AA227, AA238, AA239, AA239A and AA243A	SM		ND	NA
DW 3-9-A	Drywall and Joint Compound- <i>Drywall Only</i>	Walls and Ceilings in Rooms AA227, AA238, AA239, AA239A and AA243A	SM		ND	NA
DW 3-9-B	Drywall and Joint Compound- <i>Joint Compound Only</i>	Walls and Ceilings in Rooms AA227, AA238, AA239, AA239A and AA243A	SM		ND	NA
DW 3-10-A	Drywall and Joint Compound- <i>Drywall Only</i>	Walls and Ceilings in Rooms AA227, AA238, AA239, AA239A and AA243A	SM		ND	NA
DW 3-10-B	Drywall and Joint Compound- <i>Joint Compound Only</i>	Walls and Ceilings in Rooms AA227, AA238, AA239, AA239A and AA243A	SM		ND	NA

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Sample Number	Description	Material Location	Type of Material	Total Amount	Type and % Asbestos	Condition
DW 3-11-A	Drywall and Joint Compound- <i>Drywall Only</i>	Walls and Ceilings in Rooms AA227, AA238, AA239, AA239A and AA243A	SM	3,580 SF	ND	NA
DW 3-11-B	Drywall and Joint Compound- <i>Joint Compound Only</i>	Walls and Ceilings in Rooms AA227, AA238, AA239, AA239A and AA243A	SM		ND	NA
DW 3-12-A	Drywall and Joint Compound- <i>Drywall Only</i>	Walls and Ceilings in Rooms AA227, AA238, AA239, AA239A and AA243A	SM		ND	NA
DW 3-12-B	Drywall and Joint Compound- <i>Joint Compound Only</i>	Walls and Ceilings in Rooms AA227, AA238, AA239, AA239A and AA243A	SM		ND	NA
DW 3-13-A	Drywall and Joint Compound- <i>Drywall Only</i>	Walls and Ceilings in Rooms AA227, AA238, AA239, AA239A and AA243A	SM		ND	NA
DW 3-13-B	Drywall and Joint Compound- <i>Joint Compound Only</i>	Walls and Ceilings in Rooms AA227, AA238, AA239, AA239A and AA243A	SM		ND	NA
CM 4-14	Red Caulking Material	On Ceiling In Room A210 and Above the Suspended Ceiling Tile System	M	20 SF	ND	NA
CM 4-15	Red Caulking Material	On Ceiling In Room A210 and Above the Suspended Ceiling Tile System	M		ND	NA
CM 4-16*	Red Caulking Material	On Ceiling In Room A210 and Above the Suspended Ceiling Tile System	M		ND	NA

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Sample Number	Description	Material Location	Type of Material	Total Amount	Type and % Asbestos	Condition
PL 5-17-A	Plaster- Base and Skim Coats- <i>Skim Coat Only</i>	Throughout MICU Area and Outside Corridor	SM	>5,000 SF	ND	NA
PL 5-17-B	Plaster- Base and Skim Coats- <i>Base Coat Only</i>	Throughout MICU Area and COR2A2	SM		ND	NA
PL 5-18-A	Plaster- Base and Skim Coats- <i>Skim Coat Only</i>	Throughout MICU Area and COR2A2	SM		ND	NA
PL 5-18-B	Plaster- Base and Skim Coats- <i>Base Coat Only</i>	Throughout MICU Area and COR2A2	SM		ND	NA
PL 5-19-A	Plaster- Base and Skim Coats- <i>Skim Coat Only</i>	Throughout MICU Area and COR2A2	SM		ND	NA
PL 5-19-B	Plaster- Base and Skim Coats- <i>Base Coat Only</i>	Throughout MICU Area and COR2A2	SM		ND	NA
CM 6-20-A	Yellow Mastic Associated with Blue Carpet- <i>Mastic Only</i>	Room A211	M	195 SF	ND	NA
CM 6-20-B	Black Mastic Associated with Blue Carpet- <i>Mastic Only</i>	Room A211	M		ND	NA
CM 6-21-A	Yellow Mastic Associated with Blue Carpet- <i>Mastic Only</i>	Room A211	M		ND	NA
CM 6-21-B	Black Mastic Associated with Blue Carpet- <i>Mastic Only</i>	Room A211	M		ND	NA

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Sample Number	Description	Material Location	Type of Material	Total Amount	Type and % Asbestos	Condition
CM 6-22-A*	Yellow Mastic Associated with Blue Carpet- <i>Mastic Only</i>	Room A211	M	195 SF	ND	NA
CM 6-22-B*	Black Mastic Associated with Blue Carpet- <i>Mastic Only</i>	Room A211	M		ND	NA
TBM 7-23-A	Yellow Mastic Associated with White Vinyl Toe Board- <i>Mastic Only</i>	Room A211	M	195 SF	ND	NA
TBM 7-23-B	Brown Mastic Associated with White Vinyl Toe Board- <i>Mastic Only</i>	Room A211	M		ND	NA
TBM 7-24-A	Yellow Mastic Associated with White Vinyl Toe Board- <i>Mastic Only</i>	Room A211	M		ND	NA
TBM 7-24-B	Brown Mastic Associated with White Vinyl Toe Board- <i>Mastic Only</i>	Room A211	M		ND	NA
TBM 7-25-A*	Yellow Mastic Associated with White Vinyl Toe Board- <i>Mastic Only</i>	Room A211	M		ND	NA
TBM 7-25-B*	Brown Mastic Associated with White Vinyl Toe Board- <i>Mastic Only</i>	Room A211	M		ND	NA

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Sample Number	Description	Material Location	Type of Material	Total Amount	Type and % Asbestos	Condition
CT 8-26	2'x2' Textured Ceiling Tiles	Throughout MICU Area and COR2A2	M	>5,000 SF	ND	NA
CT 8-27	2'x2' Textured Ceiling Tiles	Throughout MICU Area and COR2A2	M		ND	NA
CT 8-28	2'x2' Textured Ceiling Tiles	Throughout MICU Area and COR2A2	M		ND	NA
DWM 9-29	Black Ductwork Mastic	Above Suspended Ceiling Tile System on Seams of HVAC Ventilation Ductwork	TSI	50 SF	ND	NA
DWM 9-30	Black Ductwork Mastic	Above Suspended Ceiling Tile System on Seams of HVAC Ventilation Ductwork	TSI		ND	NA
DWM 9-31*	Black Ductwork Mastic	Above Suspended Ceiling Tile System on Seams of HVAC Ventilation Ductwork	TSI		ND	NA
DWM 10-32	Gray Ductwork Mastic	Above Suspended Ceiling Tile System on Seams of HVAC Ventilation Ductwork	TSI	10 SF	ND	NA
DWM 10-33	Gray Ductwork Mastic	Above Suspended Ceiling Tile System on Seams of HVAC Ventilation Ductwork	TSI		ND	NA
DWM 10-34*	Gray Ductwork Mastic	Above Suspended Ceiling Tile System on Seams of HVAC Ventilation Ductwork	TSI		ND	NA

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Sample Number	Description	Material Location	Type of Material	Total Amount	Type and % Asbestos	Condition
PF 11-35	Paper Facing on Fibrous Glass Insulated Pipe	Above Suspended Ceiling Tile System on Various Piping	TSI	1,000 LF	ND	NA
PF 11-36	Paper Facing on Fibrous Glass Insulated Pipe	Above Suspended Ceiling Tile System on Various Piping	TSI		ND	NA
PF 11-37*	Paper Facing on Fibrous Glass Insulated Pipe	Above Suspended Ceiling Tile System on Various Piping	TSI		ND	NA
FT 12-38-A	12"x12" White with Brown Streaks Floor Tile and Associated Black Mastic- <i>Floor Tile Only</i>	Room A213 and A213A	M	300 SF	ND	NA
FT 12-38-B	12"x12" White with Brown Streaks Floor Tile and Associated Black Mastic- <i>Mastic Only</i>	Room A213 and A213A	M		ND	NA
FT 12-39-A	12"x12" White with Brown Streaks Floor Tile and Associated Black Mastic- <i>Floor Tile Only</i>	Room A213 and A213A	M		ND	NA
FT 12-39-B	12"x12" White with Brown Streaks Floor Tile and Associated Black Mastic- <i>Mastic Only</i>	Room A213 and A213A	M		ND	NA
FT 12-40-A*	12"x12" White with Brown Streaks Floor Tile and Associated Black Mastic- <i>Floor Tile Only</i>	Room A213 and A213A	M		ND	NA
FT 12-40-B*	12"x12" White with Brown Streaks Floor Tile and Associated Black Mastic- <i>Mastic Only</i>	Room A213 and A213A	M		ND	NA

TABLE 1
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Sample Number	Description	Material Location	Type of Material	Total Amount	Type and % Asbestos	Condition
TBM 13-41	Yellow Mastic Associated with Brown Toe Board	Room A213	M	55 LF	ND	NA
TBM 13-42	Yellow Mastic Associated with Brown Toe Board	Room A213	M		ND	NA
TBM 13-43*	Yellow Mastic Associated with Brown Toe Board	Room A213	M		ND	NA
CT 14-43	2'x2' Pinhole Ceiling Tiles	Replacement Tiles Throughout MICU Area and COR2A2	M	80 SF	ND	NA
CT 14-44	2'x2' Pinhole Ceiling Tiles	Replacement Tiles Throughout MICU Area and COR2A2	M		ND	NA
CT 14-45	2'x2' Pinhole Ceiling Tiles	Replacement Tiles Throughout MICU Area and COR2A2	M		ND	NA
FT 15-46-A	12"x12" Off-White with Brown Streaks Floor Tile and Associated Gray Mastic- <i>Flooring Only</i>	Room A213B	M	35 SF	ND	NA
FT 15-46-B	12"x12" Off-White with Brown Streaks Floor Tile and Associated Gray Mastic- <i>Mastic Only</i>	Room A213B	M		ND	NA
FT 15-47-A	12"x12" Off-White with Brown Streaks Floor Tile and Associated Gray Mastic- <i>Flooring Only</i>	Room A213B	M		ND	NA
FT 15-47-B	12"x12" Off-White with Brown Streaks Floor Tile and Associated Gray Mastic- <i>Mastic Only</i>	Room A213B	M		ND	NA

TABLE 1
ASBESTOS RESULTS - PLM & TEM ANALYSIS
RALPH H. JOHNSON MEDICAL CENTER
109 BEE STREET
CHARLESTON, SOUTH CAROLINA 29401

Sample Number	Description	Material Location	Type of Material	Total Amount	Type and % Asbestos	Condition
FT 15-48-A*	12"x12" Off-White with Brown Streaks Floor Tile and Associated Gray Mastic- <i>Flooring Only</i>	Room A213B	M	35 SF	ND	NA
FT 15-48-B*	12"x12" Off-White with Brown Streaks Floor Tile and Associated Gray Mastic- <i>Mastic Only</i>	Room A213B	M		ND	NA
LC 16-49	Leveling Compound	Room A213B	M	35 SF	ND	NA
LC 16-50	Leveling Compound	Room A213B	M		ND	NA
LC 16-51	Leveling Compound	Room A213B	M		ND	NA
TBM 17-52-A	Yellow Mastic Associated with Dark Brown Toe Board- <i>Mastic Only</i>	Room A213A	M	140 SF	ND	NA
TBM 17-52-B	Brown Mastic Associated with Dark Brown Toe Board- <i>Mastic Only</i>	Room A213A	M		ND	NA
TBM 17-53-A	Yellow Mastic Associated with Dark Brown Toe Board- <i>Mastic Only</i>	Room A213A	M		ND	NA
TBM 17-53-B	Brown Mastic Associated with Dark Brown Toe Board- <i>Mastic Only</i>	Room A213A	M		ND	NA
TBM 17-54-A*	Yellow Mastic Associated with Dark Brown Toe Board- <i>Mastic Only</i>	Room A213A	M		ND	NA

TABLE 1
ASBESTOS RESULTS - PLM & TEM ANALYSIS
RALPH H. JOHNSON MEDICAL CENTER
109 BEE STREET
CHARLESTON, SOUTH CAROLINA 29401

Sample Number	Description	Material Location	Type of Material	Total Amount	Type and % Asbestos	Condition
TBM 17-54-B*	Brown Mastic Associated with Dark Brown Toe Board- <i>Mastic Only</i>	Room A213A	M	140 SF	ND	NA
CT 18-55	2'x2' Pinhole Textured Ceiling Tiles	Replacement Tiles Throughout MICU Area and COR2A2	M	40 SF	ND	NA
CT 18-56	2'x2' Pinhole Textured Ceiling Tiles	Replacement Tiles Throughout MICU Area and COR2A2	M		ND	NA
CT 18-57	2'x2' Pinhole Textured Ceiling Tiles	Replacement Tiles Throughout MICU Area and COR2A2	M		ND	NA
TBM 19-58	Yellow Mastic Associated with White Vinyl Toe Board- <i>Mastic Only</i>	Room A209	M	55 LF	ND	NA
TBM 19-59	Yellow Mastic Associated with White Vinyl Toe Board- <i>Mastic Only</i>	Room A209	M		ND	NA
TBM 19-60*	Yellow Mastic Associated with White Vinyl Toe Board- <i>Mastic Only</i>	Room A209	M		ND	NA
CM 20-61	Black and Tan Mixed Mastics Associated with Blue/Red Carpet- <i>Mastics Only</i>	Room A209	M	160 SF	C, 2%	G/NF
CM 20-62	Black and Tan Mixed Mastics Associated with Blue/Red Carpet- <i>Mastics Only</i>	Room A209	M		Not Analyzed Due to Positive Sample	
CM 20-63*	Black and Tan Mixed Mastics Associated with Blue/Red Carpet- <i>Mastics Only</i>	Room A209	M		Not Analyzed Due to Positive Sample	

TABLE 1
ASBESTOS RESULTS - PLM & TEM ANALYSIS
RALPH H. JOHNSON MEDICAL CENTER
109 BEE STREET
CHARLESTON, SOUTH CAROLINA 29401

Sample Number	Description	Material Location	Type of Material	Total Amount	Type and % Asbestos	Condition
TBM 21-64	Brown Mastic Associated with Brown Toe Board- <i>Mastic Only</i>	Room A214	M	30 LF	ND	NA
TBM 21-65	Brown Mastic Associated with Brown Toe Board- <i>Mastic Only</i>	Room A214	M		ND	NA
TBM 21-66*	Brown Mastic Associated with Brown Toe Board- <i>Mastic Only</i>	Room A214	M		ND	NA
RV 22-67-A	Yellow Rolled Vinyl Flooring with Associated Yellow Mastic- <i>Flooring Only</i>	Hallway Outside MICU Entrance, COR2A3 and COR2A4	M	40 SF	ND	NA
RV 22-67-B	Yellow Rolled Vinyl Flooring with Associated Yellow Mastic- <i>Mastic Only</i>	Hallway Outside MICU Entrance, COR2A3 and COR2A4	M		ND	NA
RV 22-68-A	Yellow Rolled Vinyl Flooring with Associated Yellow Mastic- <i>Flooring Only</i>	Hallway Outside MICU Entrance, COR2A3 and COR2A4	M		ND	NA
RV 22-68-B	Yellow Rolled Vinyl Flooring with Associated Yellow Mastic- <i>Mastic Only</i>	Hallway Outside MICU Entrance, COR2A3 and COR2A4	M		ND	NA
RV 22-69-A*	Yellow Rolled Vinyl Flooring with Associated Yellow Mastic- <i>Flooring Only</i>	Hallway Outside MICU Entrance, COR2A3 and COR2A4	M		ND	NA
RV 22-69-B*	Yellow Rolled Vinyl Flooring with Associated Yellow Mastic- <i>Mastic Only</i>	Hallway Outside MICU Entrance, COR2A3 and COR2A4	M		ND	NA

TABLE 1
ASBESTOS RESULTS - PLM & TEM ANALYSIS
RALPH H. JOHNSON MEDICAL CENTER
109 BEE STREET
CHARLESTON, SOUTH CAROLINA 29401

Sample Number	Description	Material Location	Type of Material	Total Amount	Type and % Asbestos	Condition
RV 23-70-A	White Rolled Vinyl Flooring with Associated Yellow Mastic- <i>Flooring Only</i>	Room A215, Room A216, Room A217, Room A217A, Room A218, Room A218A, Room A219, Room A220, Room A221, Room A222, Room A223, Room A224, Room A225, Room A226, Room A226A, Room A227A, Room A227, Room A228, Room A229, Room A230, Room A231, Room A245	M	>5,000SF	ND	NA
RV 23-70-B	White Rolled Vinyl Flooring with Associated Yellow Mastic- <i>Mastic Only</i>	Room A215, Room A216, Room A217, Room A217A, Room A218, Room A218A, Room A219, Room A220, Room A221, Room A222, Room A223, Room A224, Room A225, Room A226, Room A226A, Room A227A, Room A227, Room A228, Room A229, Room A230, Room A231, Room A245	M		ND	NA
RV 23-71-A	White Rolled Vinyl Flooring with Associated Yellow Mastic- <i>Flooring Only</i>	Room A215, Room A216, Room A217, Room A217A, Room A218, Room A218A, Room A219, Room A220, Room A221, Room A222, Room A223, Room A224, Room A225, Room A226, Room A226A, Room A227A, Room A227, Room A228, Room A229, Room A230, Room A231, Room A245	M		ND	NA
RV 23-71-B	White Rolled Vinyl Flooring with Associated Yellow Mastic- <i>Mastic Only</i>	Room A215, Room A216, Room A217, Room A217A, Room A218, Room A218A, Room A219, Room A220, Room A221, Room A222, Room A223, Room A224, Room A225, Room A226, Room A226A, Room A227A, Room A227, Room A228, Room A229, Room A230, Room A231, Room A245	M		ND	NA

TABLE 1
ASBESTOS RESULTS - PLM & TEM ANALYSIS
RALPH H. JOHNSON MEDICAL CENTER
109 BEE STREET
CHARLESTON, SOUTH CAROLINA 29401

Sample Number	Description	Material Location	Type of Material	Total Amount	Type and % Asbestos	Condition
RV 23-72-A*	White Rolled Vinyl Flooring with Associated Yellow Mastic- <i>Flooring Only</i>	Room A215, Room A216, Room A217, Room A217A, Room A218, Room A218A, Room A219, Room A220, Room A221, Room A222, Room A223, Room A224, Room A225, Room A226, Room A226A, Room A227A, Room A227, Room A228, Room A229, Room A230, Room A231, Room A245	M	>5,000 SF	ND	NA
RV 23-72-B*	White Rolled Vinyl Flooring with Associated Yellow Mastic- <i>Mastic Only</i>	Room A215, Room A216, Room A217, Room A217A, Room A218, Room A218A, Room A219, Room A220, Room A221, Room A222, Room A223, Room A224, Room A225, Room A226, Room A226A, Room A227A, Room A227, Room A228, Room A229, Room A230, Room A231, Room A245	M		ND	NA
BM 24-73-A	Layers of Black Mastic, Gray Leveling Compound, and Yellow Mastic- <i>Black Mastic Only</i>	Room A215, Room A216, Room A217, Room A217A, Room A218, Room A218A, Room A219, Room A220, Room A221, Room A222, Room A223, Room A224, Room A225, Room A226, Room A226A, Room A227A, Room A227, Room A228, Room A229, Room A230, Room A231, Room A245	M	>5,000SF	ND	NA
BM 24-73-B	Layers of Black Mastic, Gray Leveling Compound, and Yellow Mastic- <i>Gray Leveling Compound Only</i>	Room A215, Room A216, Room A217, Room A217A, Room A218, Room A218A, Room A219, Room A220, Room A221, Room A222, Room A223, Room A224, Room A225, Room A226, Room A226A, Room A227A, Room A227, Room A228, Room A229, Room A230, Room A231, Room A245	M		ND	NA

TABLE 1
ASBESTOS RESULTS - PLM & TEM ANALYSIS
RALPH H. JOHNSON MEDICAL CENTER
109 BEE STREET
CHARLESTON, SOUTH CAROLINA 29401

Sample Number	Description	Material Location	Type of Material	Total Amount	Type and % Asbestos	Condition
BM 24-73-C	Layers of Black Mastic, Gray Leveling Compound, and Yellow Mastic- <i>Yellow Mastic Only</i>	Room A215, Room A216, Room A217, Room A217A, Room A218, Room A218A, Room A219, Room A220, Room A221, Room A222, Room A223, Room A224, Room A225, Room A226, Room A226A, Room A227A, Room A227, Room A228, Room A229, Room A230, Room A231, Room A245	M	>5,000 SF	ND	NA
BM 24-74-A	Layers of Black Mastic, Gray Leveling Compound, and Yellow Mastic- <i>Black Mastic Only</i>	Room A215, Room A216, Room A217, Room A217A, Room A218, Room A218A, Room A219, Room A220, Room A221, Room A222, Room A223, Room A224, Room A225, Room A226, Room A226A, Room A227A, Room A227, Room A228, Room A229, Room A230, Room A231, Room A245	M		ND	NA
BM 24-74-B	Layers of Black Mastic, Gray Leveling Compound, and Yellow Mastic- <i>Gray Leveling Compound Only</i>	Room A215, Room A216, Room A217, Room A217A, Room A218, Room A218A, Room A219, Room A220, Room A221, Room A222, Room A223, Room A224, Room A225, Room A226, Room A226A, Room A227A, Room A227, Room A228, Room A229, Room A230, Room A231, Room A245	M		ND	NA
BM 24-74-C	Layers of Black Mastic, Gray Leveling Compound, and Yellow Mastic- <i>Yellow Mastic Only</i>	Room A215, Room A216, Room A217, Room A217A, Room A218, Room A218A, Room A219, Room A220, Room A221, Room A222, Room A223, Room A224, Room A225, Room A226, Room A226A, Room A227A, Room A227, Room A228, Room A229, Room A230, Room A231, Room A245	M		ND	NA

TABLE 1
ASBESTOS RESULTS - PLM & TEM ANALYSIS
RALPH H. JOHNSON MEDICAL CENTER
109 BEE STREET
CHARLESTON, SOUTH CAROLINA 29401

Sample Number	Description	Material Location	Type of Material	Total Amount	Type and % Asbestos	Condition
BM 24-75-A*	Layers of Black Mastic, Gray Leveling Compound, and Yellow Mastic- <i>Mastics Only</i>	Room A215, Room A216, Room A217, Room A217A, Room A218, Room A218A, Room A219, Room A220, Room A221, Room A222, Room A223, Room A224, Room A225, Room A226, Room A226A, Room A227A, Room A227, Room A228, Room A229, Room A230, Room A231, Room A245	M	>5,000 SF	C, <1%	NA
BM 24-75-B*	Layers of Black Mastic, Gray Leveling Compound, and Yellow Mastic- <i>Gray Leveling Compound Only</i>	Room A215, Room A216, Room A217, Room A217A, Room A218, Room A218A, Room A219, Room A220, Room A221, Room A222, Room A223, Room A224, Room A225, Room A226, Room A226A, Room A227A, Room A227, Room A228, Room A229, Room A230, Room A231, Room A245	M		ND	NA
FB 25-76-A	White Fabric with Clear Adhesive- <i>Fabric Only</i>	Along Periphery of Walls Underneath Sample RV 23-70	M	1000 LF	ND	NA
FB 25-76-B	White Fabric with Clear Adhesive- <i>Clear Adhesive Only</i>	Along Periphery of Walls Underneath Sample RV 23-70	M		ND	NA

TABLE 1
ASBESTOS RESULTS - PLM & TEM ANALYSIS
RALPH H. JOHNSON MEDICAL CENTER
109 BEE STREET
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Sample Number	Description	Material Location	Type of Material	Total Amount	Type and % Asbestos	Condition
FB 25-77-A	White Fabric with Clear Adhesive- <i>Fabric Only</i>	Along Periphery of Walls Underneath Sample RV 23-70	M	1000 LF	ND	NA
FB 25-77-B	White Fabric with Clear Adhesive- <i>Clear Adhesive Only</i>	Along Periphery of Walls Underneath Sample RV 23-70	M		ND	NA
FB 25-78-A	White Fabric with Clear Adhesive- <i>Fabric Only</i>	Along Periphery of Walls Underneath Sample RV 23-70	M		ND	NA
FB 25-78-B*	White Fabric with Clear Adhesive- <i>Clear Adhesive Only</i>	Along Periphery of Walls Underneath Sample RV 23-70	M		ND	NA
PL 26-79-A	Plaster- Base and Skim Coats- <i>Skim Coat Only</i>	Throughout MICU Area and COR2A2	SM	>5,000SF	ND	NA
PL 26-79-B	Plaster- Base and Skim Coats- <i>Base Coat Only</i>	Throughout MICU Area and COR2A2	SM		ND	NA
PL 26-80-A	Plaster- Base and Skim Coats- <i>Skim Coat Only</i>	Throughout MICU Area and COR2A2	SM		ND	NA
PL 26-80-B	Plaster- Base and Skim Coats- <i>Base Coat Only</i>	Throughout MICU Area and COR2A2	SM		ND	NA
PL 26-81-A	Plaster- Base and Skim Coats- <i>Skim Coat Only</i>	Throughout MICU Area and COR2A2	SM		ND	NA
PL 26-81-B	Plaster- Base and Skim Coats- <i>Base Coat Only</i>	Throughout MICU Area and COR2A2	SM		ND	NA

TABLE 1
ASBESTOS RESULTS - PLM & TEM ANALYSIS
RALPH H. JOHNSON MEDICAL CENTER
109 BEE STREET
CHARLESTON, SOUTH CAROLINA 29401

Sample Number	Description	Material Location	Type of Material	Total Amount	Type and % Asbestos	Condition
FT 27-82-A	12"x12" White Floor Tile with Yellow Mastic- <i>Floor Tile Only</i>	Rooms A255B, A249B and A249A	M	50 SF	ND	NA
FT 27-82-B	12"x12" White Floor Tile with Yellow Mastic- <i>Mastic Only</i>	Rooms A255B, A249B and A249A	M		ND	NA
FT 27-83-A	12"x12" White Floor Tile with Yellow Mastic- <i>Floor Tile Only</i>	Rooms A255B, A249B and A249A	M		ND	NA
FT 27-83-B	12"x12" White Floor Tile with Yellow Mastic- <i>Mastic Only</i>	Rooms A255B, A249B and A249A	M	50 SF	ND	NA
FT 27-84-A*	12"x12" White Floor Tile with Yellow Mastic- <i>Floor Tile Only</i>	Rooms A255B, A249B and A249A	M		ND	NA
FT 27-84-B*	12"x12" White Floor Tile with Yellow Mastic- <i>Mastic Only</i>	Rooms A255B, A249B and A249A	M		ND	NA
CT 28-85	2'x2' Deep Textured Ceiling Tiles	Replacement Tiles Throughout MICU Area and COR2A2	M	20 SF	ND	NA

TABLE 1
ASBESTOS RESULTS - PLM & TEM ANALYSIS
RALPH H. JOHNSON MEDICAL CENTER
109 BEE STREET
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Sample Number	Description	Material Location	Type of Material	Total Amount	Type and % Asbestos	Condition
CT 28-86	2'x2' Deep Textured Ceiling Tiles	Replacement Tiles Throughout MICU Area and COR2A2	M	20 SF	ND	NA
CT 28-87	2'x2' Deep Textured Ceiling Tiles	Replacement Tiles Throughout MICU Area and COR2A2	M		ND	NA
CT 29-88	2'x2' Smooth Ceiling Tiles	Replacement Tiles Throughout MICU Area, COR2A2 and Room AA224	M	12 SF	ND	NA
CT 29-89	2'x2' Smooth Ceiling Tiles	Replacement Tiles Throughout MICU Area, COR2A2 and Room AA224	M		ND	NA
CT 29-90	2'x2' Smooth Ceiling Tiles	Replacement Tiles Throughout MICU Area, COR2A2 and Room AA224	M		ND	NA
CT 30-91	2'x2' Wormhole Ceiling Tiles	Replacement Tiles Throughout MICU Area, COR2A2 and Room AA224	M	12 SF	ND	NA
CT 30-92	2'x2' Wormhole Ceiling Tiles	Replacement Tiles Throughout MICU Area, COR2A2 and Room AA224	M		ND	NA
CT 30-93	2'x2' Wormhole Ceiling Tiles	Replacement Tiles Throughout MICU Area, COR2A2 and Room AA224	M		ND	NA
FT 31-94-A	9"x9" Blue Floor Tile and Associated Black Mastic- <i>Floor Tile Only</i>	Room A212	M	4 SF	C, 2%	G/NF
FT 31-94-B	9"x9" Blue Floor Tile and Associated Black Mastic- <i>Mastic Only</i>	Room A212	M		ND	NA

TABLE 1
ASBESTOS RESULTS - PLM & TEM ANALYSIS
RALPH H. JOHNSON MEDICAL CENTER
109 BEE STREET
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Sample Number	Description	Material Location	Type of Material	Total Amount	Type and % Asbestos	Condition
FT 31-95-A	9"x9" Blue Floor Tile and Associated Black Mastic- <i>Floor Tile Only</i>	Room A212	M	4 SF	Not Analyzed Due to Positive Sample	
FT 31-95-B	9"x9" Blue Floor Tile and Associated Black Mastic- <i>Mastic Only</i>	Room A212	M		ND	NA
FT 31-96-A*	9"x9" Blue Floor Tile and Associated Black Mastic- <i>Floor Tile Only</i>	Room A212	M		Not Analyzed Due to Positive Sample	
FT 31-96-B*	9"x9" Blue Floor Tile and Associated Black Mastic- <i>Mastic Only</i>	Room A212	M		C, 1.4%	G/NF
FT 32-97-A	9"x9" Cream Floor Tile and Associated Black Mastic- <i>Floor Tile Only</i>	Room A212	M	20 SF	C, 2%	G/NF
FT 32-97-B	9"x9" Cream Floor Tile and Associated Black Mastic- <i>Mastic Only</i>	Room A212	M		ND	NA
FT 32-98-A	9"x9" Cream Floor Tile and Associated Black Mastic- <i>Floor Tile Only</i>	Room A212	M		Not Analyzed Due to Positive Sample	
FT 32-98-B	9"x9" Cream Floor Tile and Associated Black Mastic- <i>Mastic Only</i>	Room A212	M		ND	NA
FT 32-99-A*	9"x9" Cream Floor Tile and Associated Black Mastic- <i>Floor Tile Only</i>	Room A212	M		Not Analyzed Due to Positive Sample	
FT 32-99-B*	9"x9" Cream Floor Tile and Associated Black Mastic- <i>Mastic Only</i>	Room A212	M		C, <1%	NA

TABLE 1
ASBESTOS RESULTS - PLM & TEM ANALYSIS
RALPH H. JOHNSON MEDICAL CENTER
109 BEE STREET
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Sample Number	Description	Material Location	Type of Material	Total Amount	Type and % Asbestos	Condition
TBM 33-100	Brown Mastic Associated with Black Vinyl Toe Board- <i>Mastic Only</i>	Room A212	M	18 LF	ND	NA
TBM 33-101	Brown Mastic Associated with Black Vinyl Toe Board- <i>Mastic Only</i>	Room A212	M		ND	NA
TBM 33-102	Brown Mastic Associated with Black Vinyl Toe Board- <i>Mastic Only</i>	Room A212	M		ND	NA
FT 34-103-A	12"x12" White Floor Tile and Associated Black Mastic- <i>Floor Tile Only</i>	Room AA227	M	140 SF	ND	NA
FT 34-103-B	12"x12" White Floor Tile and Associated Black Mastic- <i>Mastic Only</i>	Room AA227	M		ND	NA
FT 34-104-A	12"x12" White Floor Tile and Associated Black Mastic- <i>Floor Tile Only</i>	Room AA227	M	140 SF	ND	NA
FT 34-104-B	12"x12" White Floor Tile and Associated Black Mastic- <i>Mastic Only</i>	Room AA227	M		ND	NA
FT 34-105-A*	12"x12" White Floor Tile and Associated Black Mastic- <i>Floor Tile Only</i>	Room AA227	M		ND	NA
FT 34-105-B*	12"x12" White Floor Tile and Associated Black Mastic- <i>Mastic Only</i>	Room AA227	M		ND	NA

TABLE 1
ASBESTOS RESULTS - PLM & TEM ANALYSIS
RALPH H. JOHNSON MEDICAL CENTER
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Sample Number	Description	Material Location	Type of Material	Total Amount	Type and % Asbestos	Condition
FT 35-106-A	12"x12" Purple Floor Tile and Associated Black Mastic- <i>Floor Tile Only</i>	Room AA227	M	12 SF	ND	NA
FT 35-106-B	12"x12" Purple Floor Tile and Associated Black Mastic- <i>Mastic Only</i>	Room AA227	M		ND	NA
FT 35-107-A	12"x12" Purple Floor Tile and Associated Black Mastic- <i>Floor Tile Only</i>	Room AA227	M		ND	NA
FT 35-107-B	12"x12" Purple Floor Tile and Associated Black Mastic- <i>Mastic Only</i>	Room AA227	M		ND	NA
FT 35-108-A*	12"x12" Purple Floor Tile and Associated Black Mastic- <i>Floor Tile Only</i>	Room AA227	M		ND	NA
FT 35-108-B*	12"x12" Purple Floor Tile and Associated Black Mastic- <i>Mastic Only</i>	Room AA227	M		ND	NA
TBM 36-109	Yellow Mastic Associated with White Vinyl Toe Board- <i>Mastic Only</i>	Room AA238	M	45 LF	ND	NA
TBM 36-110	Yellow Mastic Associated with White Vinyl Toe Board- <i>Mastic Only</i>	Room AA238	M		ND	NA
TBM 36-111*	Yellow Mastic Associated with White Vinyl Toe Board- <i>Mastic Only</i>	Room AA238	M		ND	NA

TABLE 1
ASBESTOS RESULTS - PLM & TEM ANALYSIS
RALPH H. JOHNSON MEDICAL CENTER
109 BEE STREET
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Sample Number	Description	Material Location	Type of Material	Total Amount	Type and % Asbestos	Condition
FT 37-112-A	12"x12" Off-White Floor Tile with Mixed Yellow and Black Mastics- <i>Floor Tile Only</i>	Room AA238	M	120 SF	ND	NA
FT 37-112-B	12"x12" Off-White Floor Tile with Mixed Yellow and Black Mastics- <i>Mastics Only</i>	Room AA238	M		ND	NA
FT 37-113-A	12"x12" Off-White Floor Tile with Mixed Yellow and Black Mastics- <i>Floor Tile Only</i>	Room AA238	M		ND	NA
FT 37-113-B	12"x12" Off-White Floor Tile with Mixed Yellow and Black Mastics- <i>Mastics Only</i>	Room AA238	M		ND	NA
FT 37-114-A*	12"x12" Off-White Floor Tile with Mixed Yellow and Black Mastics- <i>Floor Tile Only</i>	Room AA238	M		ND	NA
FT 37-114-B*	12"x12" Off-White Floor Tile with Mixed Yellow and Black Mastics- <i>Mastics Only</i>	Room AA238	M		ND	NA
TBM 38-115	Cream Mastic Associated with Cream Toe Board- <i>Mastic Only</i>	Room AA239, AA239A and AA243A	M	190 LF	ND	NA
TBM 38-116	Cream Mastic Associated with Cream Toe Board- <i>Mastic Only</i>	Room AA239, AA239A and AA243A	M		ND	NA
TBM 38-117*	Cream Mastic Associated with Cream Toe Board- <i>Mastic Only</i>	Room AA239, AA239A and AA243A	M		ND	NA

TABLE 1
ASBESTOS RESULTS - PLM & TEM ANALYSIS
RALPH H. JOHNSON MEDICAL CENTER
109 BEE STREET
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Sample Number	Description	Material Location	Type of Material	Total Amount	Type and % Asbestos	Condition
FT 39-118-A	12"x12" Cream Floor Tile with Mixed Yellow and Black Mastics- <i>Floor Tile Only</i>	Room AA239, AA239A and AA243A	M	520 SF	ND	NA
FT 39-118-B	12"x12" Cream Floor Tile with Mixed Yellow and Black Mastics- <i>Mastics Only</i>	Room AA239, AA239A and AA243A	M		ND	NA
FT 39-119-A	12"x12" Cream Floor Tile with Mixed Yellow and Black Mastics- <i>Floor Tile Only</i>	Room AA239, AA239A and AA243A	M		ND	NA
FT 39-119-B	12"x12" Cream Floor Tile with Mixed Yellow and Black Mastics- <i>Mastics Only</i>	Room AA239, AA239A and AA243A	M		ND	NA
FT 39-120-A*	12"x12" Cream Floor Tile with Mixed Yellow and Black Mastics- <i>Floor Tile Only</i>	Room AA239, AA239A and AA243A	M		ND	NA
FT 39-120-B*	12"x12" Cream Floor Tile with Mixed Yellow and Black Mastics- <i>Mastics Only</i>	Room AA239, AA239A and AA243A	M		ND	NA
PL 40-121-A	Plaster- Base and Skim Coats- <i>Skim Coat Only</i>	Throughout MICU Area and COR2A2	SM	>5,000SF	ND	NA
PL 40-121-B	Plaster- Base and Skim Coats- <i>Base Coat Only</i>	Throughout MICU Area and COR2A2	SM		ND	NA

TABLE 1
ASBESTOS RESULTS - PLM & TEM ANALYSIS
RALPH H. JOHNSON MEDICAL CENTER
109 BEE STREET
CHARLESTON, SOUTH CAROLINA 29401

Sample Number	Description	Material Location	Type of Material	Total Amount	Type and % Asbestos	Condition
PL 40-122-A	Plaster- Base and Skim Coats- <i>Skim Coat Only</i>	Throughout MICU Area and COR2A2	SM	>5,000SF	ND	NA
PL 40-122-B	Plaster- Base and Skim Coats- <i>Base Coat Only</i>	Throughout MICU Area and COR2A2	SM		ND	NA
PL 40-123-A	Plaster- Base and Skim Coats- <i>Skim Coat Only</i>	Throughout MICU Area and COR2A2	SM		ND	NA
PL 40-123-B	Plaster- Base and Skim Coats- <i>Base Coat Only</i>	Throughout MICU Area and COR2A2	SM		ND	NA
Sampled On November 21, 2014						
TC 1-1	Trowelled On Cementitious Material	Room A264A	SM	2 SF	ND	NA
TC 1-2	Trowelled On Cementitious Material	Room A264A	SM		ND	NA
TC 1-3	Trowelled On Cementitious Material	Room A264A	SM		ND	NA
RM 2-4	Red Ductwork Mastic	On Seams of Ventilation Ductwork- Room A264A and Room A247	M	2 SF	ND	NA
RM 2-5	Red Ductwork Mastic	On Seams of Ventilation Ductwork- Room A264A and Room A247	M		ND	NA
RM 2-6*	Red Ductwork Mastic	On Seams of Ventilation Ductwork- Room A264A and Room A247	M		ND	NA

TABLE 1
ASBESTOS RESULTS - PLM & TEM ANALYSIS
RALPH H. JOHNSON MEDICAL CENTER
109 BEE STREET
CHARLESTON, SOUTH CAROLINA 29401

Sample Number	Description	Material Location	Type of Material	Total Amount	Type and % Asbestos	Condition
FT 3-7-A	9"x9" Green with White Streaks Floor Tile and Associated Black Mastic- <i>Floor Tile Only</i>	Room A247	M	40 SF	C, 2%	G/NF
FT 3-7-B	9"x9" Green with White Streaks Floor Tile and Associated Black Mastic- <i>Mastic Only</i>	Room A247	M		ND	NA
FT 3-8-A	9"x9" Green with White Streaks Floor Tile and Associated Black Mastic- <i>Floor Tile Only</i>	Room A247	M		Not Analyzed Due to Positive Sample	
FT 3-8-B	9"x9" Green with White Streaks Floor Tile and Associated Black Mastic- <i>Mastic Only</i>	Room A247	M		ND	NA
FT 3-9-A*	9"x9" Green with White Streaks Floor Tile and Associated Black Mastic- <i>Floor Tile Only</i>	Room A247	M		Not Analyzed Due to Positive Sample	
FT 3-9-B*	9"x9" Green with White Streaks Floor Tile and Associated Black Mastic- <i>Mastic Only</i>	Room A247	M		C, 4.1%	G/NF
CW 4-10-A	White Canvas Wrap with White Mastic- <i>Mastic Only</i>	Room A259- Over Fibrous Glass Insulated Metal Pipes	TSI	60 SF	C, 15%	G/NF
CW 4-10-B	White Canvas Wrap with White Mastic- <i>Canvas Wrap Only</i>	Room A259- Over Fibrous Glass Insulated Metal Pipes	TSI		ND	NA
CW 4-11	White Canvas Wrap with White Mastic	Room A259- Over Fibrous Glass Insulated Metal Pipes	TSI		Not Analyzed Due to Positive Sample	
CW 4-12*	White Canvas Wrap with White Mastic	Room A259- Over Fibrous Glass Insulated Metal Pipes	TSI		Not Analyzed Due to Positive Sample	

TABLE 1
ASBESTOS RESULTS - PLM & TEM ANALYSIS
RALPH H. JOHNSON MEDICAL CENTER
109 BEE STREET
CHARLESTON, SOUTH CAROLINA 29401

Sample Number	Description	Material Location	Type of Material	Total Amount	Type and % Asbestos	Condition
DM 5-13**	White Mastic	On Seams of Domestic Water Pipes	M	2 SF	ND	NA
DM 6-14**	White Ductwork Mastic	On Seams of HVAC Ventilation Ductwork	M	40 SF	ND	NA
Sampled On April 23, 2015						
FT 1-1-A	12"x12" White with Brown Streak Floor Tile and Associated Black Mastic- <i>Floor Tile Only</i>	Rooms AA204 and AA208	M	80 SF	ND	NA
FT 1-1-B	12"x12" White with Brown Streak Floor Tile and Associated Black Mastic- <i>Mastic Only</i>	Rooms AA204 and AA208	M		ND	NA
FT 1-2-A	12"x12" White with Brown Streak Floor Tile and Associated Black Mastic- <i>Floor Tile Only</i>	Rooms AA204 and AA208	M		ND	NA
FT 1-2-B	12"x12" White with Brown Streak Floor Tile and Associated Black Mastic- <i>Mastic Only</i>	Rooms AA204 and AA208	M		ND	NA
FT 1-3-A*	12"x12" White with Brown Streak Floor Tile and Associated Black Mastic- <i>Floor Tile Only</i>	Rooms AA204 and AA208	M		ND	NA
FT 1-3-B*	12"x12" White with Brown Streak Floor Tile and Associated Black Mastic- <i>Mastic Only</i>	Rooms AA204 and AA208	M		ND	NA

TABLE 1
ASBESTOS RESULTS - PLM & TEM ANALYSIS
RALPH H. JOHNSON MEDICAL CENTER
109 BEE STREET
CHARLESTON, SOUTH CAROLINA 29401

Sample Number	Description	Material Location	Type of Material	Total Amount	Type and % Asbestos	Condition
TBM 2-4	Brown Toeboard Mastic Associated with Brown Toeboard- <i>Mastic Only</i>	Rooms AA204 and AA208	M	40 LF	ND	NA
TBM 2-5	Brown Toeboard Mastic Associated with Brown Toeboard- <i>Mastic Only</i>	Rooms AA204 and AA208	M		ND	NA
TBM 2-6	Brown Toeboard Mastic Associated with Brown Toeboard- <i>Mastic Only</i>	Rooms AA204 and AA208	M		ND	NA
DW 3-7-A	Drywall and Joint Compound- <i>Drywall Only</i>	Walls and Ceilings in Rooms AA204, AA208 and AA224	SM	900 SF	ND	NA
DW 3-7-B	Drywall and Joint Compound- <i>Joint Compound Only</i>	Walls and Ceilings in Rooms AA204, AA208 and AA224	SM		ND	NA
DW 3-8-A	Drywall and Joint Compound- <i>Drywall Only</i>	Walls and Ceilings in Rooms AA204, AA208 and AA224	SM		ND	NA
DW 3-8-B	Drywall and Joint Compound- <i>Joint Compound Only</i>	Walls and Ceilings in Rooms AA204, AA208 and AA224	SM		ND	NA
DW 3-9-A	Drywall and Joint Compound- <i>Drywall Only</i>	Walls and Ceilings in Rooms AA204, AA208 and AA224	SM		ND	NA
DW 3-9-B	Drywall and Joint Compound- <i>Joint Compound Only</i>	Walls and Ceilings in Rooms AA204, AA208 and AA224	SM		ND	NA

TABLE 1
ASBESTOS RESULTS - PLM & TEM ANALYSIS
RALPH H. JOHNSON MEDICAL CENTER
109 BEE STREET
CHARLESTON, SOUTH CAROLINA 29401

Sample Number	Description	Material Location	Type of Material	Total Amount	Type and % Asbestos	Condition
TBM 4-10	White Mastic Associated with Cream Toeboard- <i>Mastic Only</i>	Along Periphery of Gypsum Board Walls in Room AA224	M	140 SF	ND	NA
TBM 4-11	White Mastic Associated with Cream Toeboard- <i>Mastic Only</i>	Along Periphery of Gypsum Board Walls in Room AA224	M		ND	NA
TBM 4-12	White Mastic Associated with Cream Toeboard- <i>Mastic Only</i>	Along Periphery of Gypsum Board Walls in Room AA224	M		ND	NA
RF 5-13-A	Cream Rolled Vinyl Flooring with White Mastic- <i>Flooring Only</i>	Room A251	M	50 SF	ND	NA
RF 5-13-B	Cream Rolled Vinyl Flooring with White Mastic- <i>Mastic Only</i>	Room A251	M		ND	NA
RF 5-14-A	Cream Rolled Vinyl Flooring with White Mastic- <i>Flooring Only</i>	Room A251	M		ND	NA
RF 5-14-B	Cream Rolled Vinyl Flooring with White Mastic- <i>Mastic Only</i>	Room A251	M		ND	NA

TABLE 1
ASBESTOS RESULTS - PLM & TEM ANALYSIS
RALPH H. JOHNSON MEDICAL CENTER
109 BEE STREET
CHARLESTON, SOUTH CAROLINA 29401

Sample Number	Description	Material Location	Type of Material	Total Amount	Type and % Asbestos	Condition
RF 5-15-A*	Cream Rolled Vinyl Flooring with White Mastic- <i>Flooring Only</i>	Room A251	M	50 SF	ND	NA
RF 5-15-B*	Cream Rolled Vinyl Flooring with White Mastic- <i>Mastic Only</i>	Room A251	M		ND	NA

NOMENCLATURE AND NOTES:

NA - Not Applicable; Entered into table when there is no asbestos detected in sample

*** TEM Analysis**

**** These materials have been previously tested in the attached Triennial Asbestos Re-Inspection Report of the**

Ralph H. Johnson VAMC by Safety Environmental Laboratories and Consulting, Inc

Plaster Samples 17, 18, 19; 79, 80, 81; 121, 122, and 123 are homogeneous

Type and Percent Asbestos

C= Chrysotile

A = Amosite

ND = None Detected

Sample Number Abbreviations

PL - Plaster - Base and Skim Coat

DW- Drywall and Joint Compound

RV- Rolled Vinyl and Mastic

FT- Floor Tile and Mastic

DWM- Ductwork Mastic

CM- Carpet Mastic

TBM- Toe Board Mastic

PF- Paper Facing

CT- Ceiling Tiles

LC- Leveling Compound

Type of Material

M = Miscellaneous

SM= Surfacing Material

TSI = Thermal Surfacing Material

Measurements

SF=Square Feet

LF= Linear Feet

Condition of Material

NF = Non-friable, F = Friable

G = Good; D = Damaged; SD = Significantly Damaged

These categories above apply only when

a material is identified as an ACM

TABLE 2
PAINT CHIP SAMPLE RESULTS
RALPH H. JOHNSON MEDICAL CENTER
109 BEE STREET
CHARLESTON, SOUTH CAROLINA 29401
10-Nov-14

Sample Number	Sample Location	Lab Concentration (%)	EPA Standard (%)	SC DHEC Standard (%)
LP-1	White Paint On Plaster Corridor Walls	< 0.0053	0.5%	0.06%
LP-2	Cream Paint on Metal Doors and Door Trims	0.16	0.5%	0.06%
LP-3	White Paint On Plaster - Room A209	0.0079	0.5%	0.06%
LP-4	Purple Paint on Plaster Walls in Nurses Station	< 0.0068	0.5%	0.06%
LP-5	Brown Paint on Plaster Walls - Room A212	0.24	0.5%	0.06%

SC DHEC - South Carolina Department of Health and Environmental Control

EPA - Environmental Protection Agency

% - percent by weight

< - Less Than

APPENDIX 4.2

CHAIN-OF-CUSTODY RECORDS AND CERTIFICATE OF ANALYSIS



ASBESTOS BULK ANALYSIS

By: TRANSMISSION ELECTRON MICROSCOPY

Client: Gel Engineering, LLC
2040 Savage Road
Charleston, SC 29407

CEI Lab Code: T14-2490
Date Received: 11-24-14
Date Analyzed: 11-25-14
Date Reported: 11-25-14

Project: hdgp00114

TEM BULK CHATFIELD / EPA 600 / R93 / 116

Client ID Lab ID	Material Description	Sample Weight (g)	Organic Material %	Acid Soluble Material %	Acid Insoluble Material %	Asbestos %
RM 2-6 T33287	Red Mastic	0.2388	60.3	20.3	19.4	None Detected
FT 3-9 T33288	Floor Tile	Sample not analyzed per COC.				
FT 3-9 T33289	Black Mastic	0.1436	61.5	16.2	22.3	4.1% Chrysotile
Probable contamination from positive Floor Tile.						
CW 4-12 T33290	White Mastic	Sample not analyzed per COC.				

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ANALYST:

Kamila Reichert

APPROVED BY:

Tianbao Bai, Ph.D.
Laboratory Director



107 New Edition Court, Cary, NC 27511
Tel: 866-481-1412; Fax: 919-481-1442

ASBESTOS CHAIN OF CUSTODY

LAB USE ONLY:	④ 80 11/24
CEI Lab Code:	T74-2490
CEI Lab I.D. Range:	T33287-290

COMPANY INFORMATION		PROJECT INFORMATION
CEI CLIENT #:26512		Job Contact:Sarah Browning
Company:Gel Engineering, LLC		Email / Tel: b Sarah.browning@gel.com
Address:2040 Savage Road		Project Name:
Charleston, SC 29407		Project ID# hdgp00114
Email:sarah.browning@gel.com		PO #:
Tel:843-300-4254	Fax:	STATE SAMPLES COLLECTED IN: SC

GENERAL INSTRUCTIONS		
POSITIVE STOP ANALYSIS	<input checked="" type="checkbox"/>	PLM DUE DATE: 11 / 25 / 14
ANALYZE NOB'S BY TEM	<input type="checkbox"/>	TEM DUE DATE: 11 / 25 / 14

IF TAT IS NOT MARKED STANDARD 3 DAY TAT APPLIES.

ASBESTOS	METHOD	TURN AROUND TIME					
		4 HR	8 HR	24 HR	2 DAY	3 DAY	5 DAY
PLM BULK	EPA 600	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PLM POINT COUNT (400)	EPA 600	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PLM POINT COUNT (1000)	EPA 600	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PLM GRAV w POINT COUNT	EPA 600		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PCM AIR	NIOSH 7400	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM AIR AHERA	EPA AHERA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM AIR NIOSH	NIOSH 7402	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM BULK	CHATFIELD		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM DUST WIPE	ASTM D6480-05	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM DUST MICROVAC	ASTM D5755-09	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM SOIL	ASTM D7521-13			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM VERMICULITE	CINCINNATI METHOD			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
OTHER:		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

REMARKS:		<input type="checkbox"/> Accept Samples <input type="checkbox"/> Reject Samples	
Relinquished By:	Date/Time	Received By:	Date/Time
	11-21-14 2:40pm		11/24/14 9:00

Samples will be disposed of 30 days after analysis

153142



ASBESTOS BULK ANALYSIS

By: TRANSMISSION ELECTRON MICROSCOPY

Client: Gel Engineering, LLC
2040 Savage Road
Charleston, SC 29407

CEI Lab Code: T14-2437
Date Received: 11-12-14
Date Analyzed: 11-13-14
Date Reported: 11-13-14

Project: hdgp00114

TEM BULK CHATFIELD / EPA 600 / R93 / 116

Client ID Lab ID	Material Description	Sample Weight (g)	Organic Material %	Acid Soluble Material %	Acid Insoluble Material %	Asbestos %
RV 1-3 T32859	Vinyl Flooring	0.2162	67.6	15.8	16.6	None Detected
RV 1-3 T32860	Yellow Mastic	0.3132	55.3	28.5	16.2	None Detected
RV 1-3 T32861	Dk. Brown Mastic	0.2786	51.8	18.7	29.5	None Detected
RV 2-6 T32862	Vinyl Flooring	0.192	67	15.7	17.3	None Detected
RV 2-6 T32863	Yellow Mastic	0.149	57.9	41.5	.6	None Detected
RV 2-6 T32864	Dk. Brown Mastic	0.2203	54.5	8.4	37.1	None Detected
CM 4-16 T32865	Caulking	0.208	28.3	68	3.7	None Detected
CM 6-22 T32866	Yellow Mastic	0.1998	44.3	12.9	42.8	None Detected
CM 6-22 T32867	Brown Mastic	0.2242	48.1	10.3	41.6	None Detected
TBM 7-25 T32868	Yellow Mastic	0.2129	38.4	5.8	55.8	None Detected
TBM 7-25 T32869	Brown Mastic	0.1924	47.2	4.5	48.3	None Detected
DWM 9-31 T32870	Ductwork Mastic	0.225	50	14	36	None Detected



ASBESTOS BULK ANALYSIS

By: TRANSMISSION ELECTRON MICROSCOPY

Client: Gel Engineering, LLC
2040 Savage Road
Charleston, SC 29407

CEI Lab Code: T14-2437
Date Received: 11-12-14
Date Analyzed: 11-13-14
Date Reported: 11-13-14

Project: hdgp00114

TEM BULK CHATFIELD / EPA 600 / R93 / 116

Client ID Lab ID	Material Description	Sample Weight (g)	Organic Material %	Acid Soluble Material %	Acid Insoluble Material %	Asbestos %
DWM 10-34 T32871	Ductwork Mastic	0.1189	47.8	3.8	48.4	None Detected
FT 12-40 T32872	Floor Tile	0.28	15.9	83	1.1	None Detected
FT 12-40 T32873	Mastic	0.2546	65.9	12.8	21.3	None Detected
TBM 13-43 T32874	Mastic	0.4378	39.6	53.1	7.3	None Detected
FT 15-48 T32875	Floor Tile	0.1895	13.8	85	1.2	None Detected
FT 15-48 T32876	Mastic	0.1437	29	44.1	26.9	None Detected
TBM 17-54 T32877	Yellow Mastic	0.195	29.8	64.7	5.5	None Detected
TBM 17-54 T32878	Brown Mastic	0.1598	42.5	26.6	30.9	None Detected
TBM 19-60 T32879	Mastic	0.3142	42.2	7.8	50	None Detected
TBM 21-66 T32880	Mastic	0.2943	52.2	2.9	44.9	None Detected
RV 22-69 T32881	Vinyl Flooring	0.2564	49.2	50.7	.1	None Detected
RV 22-69 T32882	Mastic	0.3166	87.3	9.2	3.5	None Detected



ASBESTOS BULK ANALYSIS

By: TRANSMISSION ELECTRON MICROSCOPY

Client: Gel Engineering, LLC
2040 Savage Road
Charleston, SC 29407

CEI Lab Code: T14-2437
Date Received: 11-12-14
Date Analyzed: 11-13-14
Date Reported: 11-13-14

Project: hdgp00114

TEM BULK CHATFIELD / EPA 600 / R93 / 116

Client ID Lab ID	Material Description	Sample Weight (g)	Organic Material %	Acid Soluble Material %	Acid Insoluble Material %	Asbestos %
RV 23-72 T32883	Vinyl Flooring	0.285	55.1	14.1	30.8	None Detected
RV 23-72 T32884	Mastic	0.1155	77.8	11.7	10.5	None Detected
BM 24-75 T32885	Yellow, Black Mastic	0.1917	51.2	26.5	22.3	<1% Chrysotile
Unable to separate the mastic.						
FB 25-78 T32887	Mastic	0.2053	76.3	18.3	5.4	None Detected
FT 27-84 T32888	Floor Tile	0.2063	14.2	82.5	3.3	None Detected
FT 27-84 T32889	Mastic	0.3995	32.4	38.9	28.7	None Detected
FT 31-96 T32890	Mastic Only	0.183	79.5	5.4	15.1	1.4% Chrysotile
Probable contamination from positive Floor Tile.						
FT 32-99 T32891	Mastic Only	0.0969	78.1	14.4	7.5	<1% Chrysotile
TBM 33-102 T32892	Mastic	0.2668	51.1	8.1	40.8	None Detected
FT 34-105 T32893	Floor Tile	0.1822	14.1	85.4	.5	None Detected
FT 34-105 T32894	Mastic	0.1081	59.6	23.5	16.9	None Detected
FT 35-108 T32895	Floor Tile	0.274	16.4	78.2	5.4	None Detected



ASBESTOS BULK ANALYSIS

By: TRANSMISSION ELECTRON MICROSCOPY

Client: Gel Engineering, LLC
2040 Savage Road
Charleston, SC 29407

CEI Lab Code: T14-2437
Date Received: 11-12-14
Date Analyzed: 11-13-14
Date Reported: 11-13-14

Project: hdgp00114

TEM BULK CHATFIELD / EPA 600 / R93 / 116

Client ID Lab ID	Material Description	Sample Weight (g)	Organic Material %	Acid Soluble Material %	Acid Insoluble Material %	Asbestos %
FT 35-108 T32896	Mastic	0.1236	46.3	38.7	15	None Detected
TBM 36-111 T32897	Mastic	0.2607	37.4	11.3	51.3	None Detected
FT 37-114 T32898	Floor Tile	0.2075	16.4	33.8	49.8	None Detected
FT 37-114 T32899	Mixed Mastic	0.2911	60.6	28.5	10.9	None Detected
TBM 38-117 T32900	Mastic	0.3617	37.8	2.8	59.4	None Detected
FT 39-120 T32901	Floor Tile	0.1733	10.3	58.5	31.2	None Detected
FT 39-120 T32902	Mastic	0.157	50.6	25.4	24	None Detected

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ANALYST:

Kamila Reichert

APPROVED BY:

Tianbao Bai, Ph.D.
Laboratory Director



107 New Edition Court, Cary, NC 27511

Tel: 866-481-1412; Fax: 919-481-1442

ASBESTOS CHAIN OF CUSTODY

74-2437
T32859-902
(44) 82
1/12

LAB USE ONLY:

CEI Lab Code:

CEI Lab I.D. Range:

COMPANY INFORMATION

CEI CLIENT #:26512

Company:Gel Engineering, LLC

Address:2040 Savage Road

Charleston, SC 29407

Email:sarah.browning@gel.com

Tel:843-300-4254

Fax:

PROJECT INFORMATION

Job Contact:Sarah Browning

Email / Tel: Sarah.browning@gel.com

Project Name:

Project ID# hdgpo0114

PO #:

STATE SAMPLES COLLECTED IN: SC

GENERAL INSTRUCTIONS

POSITIVE STOP ANALYSIS



PLM DUE DATE:

11 / 12 / 14

ANALYZE NOB'S BY TEM



TEM DUE DATE:

11 / 12 / 14

IF TAT IS NOT MARKED STANDARD 3 DAY TAT APPLIES.

ASBESTOS	METHOD	TURN AROUND TIME					
		4 HR	8 HR	24 HR	2 DAY	3 DAY	5 DAY
PLM BULK	EPA 600	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PLM POINT COUNT (400)	EPA 600	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PLM POINT COUNT (1000)	EPA 600	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PLM GRAV w POINT COUNT	EPA 600	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PCM AIR	NIOSH 7400	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM AIR AHERA	EPA AHERA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM AIR NIOSH	NIOSH 7402	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM BULK	CHATFIELD	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM DUST WIPE	ASTM D6480-05	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM DUST MICROVAC	ASTM D5755-09	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM SOIL	ASTM D7521-13	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM VERMICULITE	CINCINNATI METHOD	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
OTHER:		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

REMARKS:

✓ = TEM



Accept Samples



Reject Samples

Relinquished By:

Date/Time

Received By:

Date/Time

Samples will be disposed of 30 days after analysis



ASBESTOS SAMPLING FORM

2437

COMPANY CONTACT INFORMATION

Company: GEL Engineering

Job Contact: Sarah Browning

Project Name:

Project ID #: hdgpr00114

Tel: 843-300-4254

SAMPLE ID#	DESCRIPTION / LOCATION	VOLUME / AREA	TEST
RV 1-1	Brown Surried rolled vinyl	PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
RV 1-2	Flooring and mixed mastics	PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
✓ RV 1-3	↓ ↓ ↓ ↓ ↓ ↓	PLM <input type="checkbox"/>	TEM <input checked="" type="checkbox"/>
RV 2-4	Brown with white stripes	PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
RV 2-5	rolled vinyl flooring and mixed	PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
✓ RV 2-6	mastics	PLM <input type="checkbox"/>	TEM <input checked="" type="checkbox"/>
DW 3-7	Daywall: Joint compound	PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
DW 3-8	↓ ↓ ↓ ↓ ↓ ↓	PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
DW 3-9	↓ ↓ ↓ ↓ ↓ ↓	PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
DW 3-10	↓ ↓ ↓ ↓ ↓ ↓	PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
DW 3-11	↓ ↓ ↓ ↓ ↓ ↓	PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
DW 3-12	↓ ↓ ↓ ↓ ↓ ↓	PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
DW 3-13	↓ ↓ ↓ ↓ ↓ ↓	PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
CM 4-14	Red Caulking Material	PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
CM 4-15	↓ ↓ ↓ ↓ ↓ ↓	PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
✓ CM 4-16	↓ ↓ ↓ ↓ ↓ ↓	PLM <input type="checkbox"/>	TEM <input checked="" type="checkbox"/>
PL 5-17	Plaster - Base and Skim Coat	PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
PL 5-18	↓ ↓ ↓ ↓ ↓ ↓	PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
PL 5-19	↓ ↓ ↓ ↓ ↓ ↓	PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
CM 6-20	Mixed Mastics - Yellow Black	PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
CM 6-21	↓ ↓ ↓ ↓ ↓ ↓	PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
✓ CM 6-22	↓ ↓ ↓ ↓ ↓ ↓	PLM <input type="checkbox"/>	TEM <input checked="" type="checkbox"/>
TBM 7-23	Mixed Brown: Yellow Mastic } Mastic	PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
TBM 7-24	↓ ↓ ↓ ↓ ↓ ↓	PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
✓ TBM 7-25	↓ ↓ ↓ ↓ ↓ ↓ } Only	PLM <input type="checkbox"/>	TEM <input checked="" type="checkbox"/>
CT 8-26	2'x2' Textured Ceiling Tile	PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
CT 8-27	↓ ↓ ↓ ↓ ↓ ↓	PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
CT 8-28	↓ ↓ ↓ ↓ ↓ ↓	PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
		PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
		PLM <input type="checkbox"/>	TEM <input type="checkbox"/>



ASBESTOS SAMPLING FORM

2437

COMPANY CONTACT INFORMATION

Company: GEL Engineering	Job Contact: Sarah Browning
Project Name:	
Project ID #: hdg000114	Tel: 843-300-4254

SAMPLE ID#	DESCRIPTION / LOCATION	VOLUME/ AREA	TEST
DWM 9-29	Black Ductwork Mastic	PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
DWM 9-30	↓ ↓ ↓ ↓	PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
✓ DWM 9-31	↓ ↓ ↓ ↓	PLM <input type="checkbox"/>	TEM <input checked="" type="checkbox"/>
DWM 10-32	Gray Ductwork Mastic	PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
DWM 10-33	↓ ↓ ↓ ↓	PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
✓ DWM 10-34	↓ ↓ ↓ ↓	PLM <input type="checkbox"/>	TEM <input checked="" type="checkbox"/>
PF 11-35	Paper Facing on Pipe Insulation	PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
PF 11-36	↓ ↓ ↓ ↓	PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
PF 11-37	↓ ↓ ↓ ↓	PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
ET 12-38	12"×12" White w/ Brown } Floor Tile	PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
ET 12-39	Streaks Floor Tile and } and Black	PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
✓ ET 12-40	Black Mastic } Mastic Only	PLM <input type="checkbox"/>	TEM <input checked="" type="checkbox"/>
TBM 13-41	Yellow Mastic } Mastic	PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
TBM 13-42	↓ ↓ ↓ ↓ } Only	PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
✓ TBM 13-43	↓ ↓ ↓ ↓ } Only	PLM <input type="checkbox"/>	TEM <input checked="" type="checkbox"/>
CT 14-43	2'×2' Pinhole Ceiling Tile	PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
CT 14-44	↓ ↓ ↓ ↓	PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
CT 14-45	↓ ↓ ↓ ↓	PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
ET 15-46	12"×12" off white Floor tile	PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
ET 15-47	and black mastic	PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
✓ ET 15-48	↓ ↓ ↓ ↓ ↓ ↓	PLM <input type="checkbox"/>	TEM <input checked="" type="checkbox"/>
LC 16-49	Leveling compound	PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
LC 16-50	↓ ↓ ↓ ↓	PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
LC 16-51	↓ ↓ ↓ ↓	PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
TBM 17-52	Mixed Black and } mastic	PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
TBM 17-53	Yellow Mastics } only	PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
✓ TBM 17-54	↓ ↓ ↓ ↓ } only	PLM <input type="checkbox"/>	TEM <input checked="" type="checkbox"/>
CT 18-55	2'×2' Pinhole Textured	PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
CT 18-56	Ceiling Tile	PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
CT 18-57	↓ ↓ ↓ ↓	PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>



ASBESTOS SAMPLING FORM

2437

COMPANY CONTACT INFORMATION

Company: GEL Engineering	Job Contact: Sarah Browning
Project Name:	
Project ID #: hdp000114	Tel: 843-300-4254

SAMPLE ID#	DESCRIPTION / LOCATION	VOLUME/ AREA	TEST
TBM 19-58	Yellow Mastic	Mastic	PLM <input checked="" type="checkbox"/> TEM <input type="checkbox"/>
TBM 19-59	↓ ↓ ↓	Only	PLM <input checked="" type="checkbox"/> TEM <input type="checkbox"/>
✓ TBM 19-60	↓ ↓ ↓		PLM <input type="checkbox"/> TEM <input checked="" type="checkbox"/>
CM 20-61	Mixed Mastics		PLM <input checked="" type="checkbox"/> TEM <input type="checkbox"/>
CM 20-62	↓ ↓ ↓		PLM <input checked="" type="checkbox"/> TEM <input type="checkbox"/>
✓ CM 20-63	↓ ↓ ↓		PLM <input type="checkbox"/> TEM <input checked="" type="checkbox"/>
TBM 21-64	Brown Mastic	Mastic	PLM <input checked="" type="checkbox"/> TEM <input type="checkbox"/>
TBM 21-65	↓ ↓ ↓	Only	PLM <input checked="" type="checkbox"/> TEM <input type="checkbox"/>
✓ TBM 21-66	↓ ↓ ↓		PLM <input type="checkbox"/> TEM <input checked="" type="checkbox"/>
RV 22-67	Yellow rolled vinyl Flooring		PLM <input checked="" type="checkbox"/> TEM <input type="checkbox"/>
RV 22-68	with yellow mastic		PLM <input checked="" type="checkbox"/> TEM <input type="checkbox"/>
✓ RV 22-69	↓ ↓ ↓ ↓		PLM <input type="checkbox"/> TEM <input checked="" type="checkbox"/>
RV 23-70	White Rolled vinyl Flooring		PLM <input checked="" type="checkbox"/> TEM <input type="checkbox"/>
RV 23-71	with yellow mastic		PLM <input checked="" type="checkbox"/> TEM <input type="checkbox"/>
✓ RV 23-72	↓ ↓ ↓ ↓		PLM <input type="checkbox"/> TEM <input checked="" type="checkbox"/>
BM 24-73	Black Mastic		PLM <input checked="" type="checkbox"/> TEM <input type="checkbox"/>
BM 24-74	↓ ↓ ↓		PLM <input checked="" type="checkbox"/> TEM <input type="checkbox"/>
✓ BM 24-75	↓ ↓ ↓		PLM <input type="checkbox"/> TEM <input checked="" type="checkbox"/>
FB 25-76	Fabric layers with Mastic		PLM <input checked="" type="checkbox"/> TEM <input type="checkbox"/>
FB 25-77	↓ ↓ ↓		PLM <input checked="" type="checkbox"/> TEM <input type="checkbox"/>
✓ FB 25-78	↓ ↓ ↓		PLM <input type="checkbox"/> TEM <input checked="" type="checkbox"/>
PL 26-79	Plaster - Base and Skim Coats		PLM <input checked="" type="checkbox"/> TEM <input type="checkbox"/>
PL 26-80	↓ ↓ ↓ ↓		PLM <input checked="" type="checkbox"/> TEM <input type="checkbox"/>
✓ PL 26-81	↓ ↓ ↓ ↓		PLM <input checked="" type="checkbox"/> TEM <input type="checkbox"/>
FT 27-82	12"x12" White Floor Tile with		PLM <input checked="" type="checkbox"/> TEM <input type="checkbox"/>
FT 27-83	Yellow Mastic		PLM <input checked="" type="checkbox"/> TEM <input type="checkbox"/>
✓ FT 27-84	↓ ↓ ↓ ↓		PLM <input type="checkbox"/> TEM <input checked="" type="checkbox"/>
CT 28-85	2'x2' Deep Textured Ceiling		PLM <input checked="" type="checkbox"/> TEM <input type="checkbox"/>
CT 28-86	Tile		PLM <input checked="" type="checkbox"/> TEM <input type="checkbox"/>
CT 28-87	↓ ↓ ↓ ↓		PLM <input checked="" type="checkbox"/> TEM <input type="checkbox"/>



ASBESTOS SAMPLING FORM

2437

COMPANY CONTACT INFORMATION

Company: <u>GEL Engineering</u>	Job Contact: <u>Sarah Bruning</u>
Project Name:	
Project ID #: <u>hdg000114</u>	Tel: <u>843-300-4254</u>

SAMPLE ID#	DESCRIPTION / LOCATION	VOLUME / AREA	TEST
CT 29-88	2'x2' Smooth Ceiling Tile	PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
CT 29-89	↓ ↓ ↓ ↓ ↓	PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
CT 29-90	↓ ↓ ↓ ↓ ↓	PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
CT 30-91	2'x2' Wormhole Ceiling Tile	PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
CT 30-92	↓ ↓ ↓ ↓ ↓	PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
CT 30-93	↓ ↓ ↓ ↓ ↓	PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
FT 31-94	9"x9" Blue Floor Tile and	PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
FT 31-95	Black Mastic	PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
✓ FT 31-96	↓ ↓ ↓ ↓ ↓	PLM <input type="checkbox"/>	TEM <input checked="" type="checkbox"/>
FT 32-97	9"x9" Cream Floor Tile and	PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
FT 32-98	Black Mastic	PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
✓ FT 32-99	↓ ↓ ↓ ↓ ↓	PLM <input type="checkbox"/>	TEM <input checked="" type="checkbox"/>
TBM 33-100	Brown Mastic } Mastic	PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
TBM 33-101	↓ ↓ ↓ ↓ ↓ } Only	PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
✓ TBM 33-102	↓ ↓ ↓ ↓ ↓ } Only	PLM <input type="checkbox"/>	TEM <input checked="" type="checkbox"/>
FT 34-103	12"x12" White Floor Tile and	PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
FT 34-104	Black Mastic	PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
✓ FT 34-105	↓ ↓ ↓ ↓ ↓	PLM <input type="checkbox"/>	TEM <input checked="" type="checkbox"/>
FT 35-106	12"x12" Purple Floor Tile and	PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
FT 35-107	Black Mastic	PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
✓ FT 35-108	↓ ↓ ↓ ↓ ↓	PLM <input type="checkbox"/>	TEM <input checked="" type="checkbox"/>
TBM 36-109	Yellow Mastic } Mastic	PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
✓ TBM 36-110	↓ ↓ ↓ ↓ ↓ } Only	PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
✓ TBM 36-111	↓ ↓ ↓ ↓ ↓ } Only	PLM <input type="checkbox"/>	TEM <input checked="" type="checkbox"/>
FT 37-112	12"x12" Off white with brown	PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
FT 37-113	streaks floor tile and	PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
✓ FT 37-114	mixed mastics	PLM <input type="checkbox"/>	TEM <input checked="" type="checkbox"/>
TBM 38-115	Cream Mastic } Mastic	PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
TBM 38-116	↓ ↓ ↓ ↓ ↓ } Only	PLM <input checked="" type="checkbox"/>	TEM <input type="checkbox"/>
✓ TBM 38-117	↓ ↓ ↓ ↓ ↓ } Only	PLM <input type="checkbox"/>	TEM <input checked="" type="checkbox"/>

ASBESTOS SAMPLING FORM

2437

COMPANY CONTACT INFORMATION

Company: GEL Engineering

Job Contact: Sarah Browning

Project Name:

Project ID #: hdgp00114

Tel: 843-300-4254

[illegible]

5-1-5

15-10-12
10-10-12
10-10-12

RE: hdgp00114; Positive Stop Request

2437

From: Browning, Sarah

Sent: Tue, Nov 11, 2014 at 10:59

To: Samantha Davi

Yes, this is correct. Thanks for all of your help!

Sarah

--

Sarah Browning, E.I.T., Project Manager

2040 Savage Road, Charleston, SC 29407 | P.O. Box 30712, Charleston, SC 29417

Direct Office: 843.300.4254 | Cell: 704.962.9974 | General Office: 843.769.7378 x4206

Environmental | Engineering | Surveying

-----Original Message-----

From: Samantha Davi [mailto:samd@ceilabs.com]

Sent: Tuesday, November 11, 2014 10:55 AM

To: Browning, Sarah

Cc: Kamila Reichert; Diana Sedito; Anna Malmberg

Subject: hdgp00114; Positive Stop Request

Importance: High

Hey Sarah,

Per our conversation you would like Pos. Stop done by PLM and Negative after for TEM, with both at a 24 TAT. Is this correct ?

Thanks again!

Samantha R. Davi

TEM Laboratories Technician

CEI Labs, Inc.

107 New Edition Court

Cary, NC 27511

www.ceilabs.comSamd@ceilabs.com; Tem@ceilabs.com

Toll Free: (866) 481-1412

Voice: (919) 481-1413

Fax: (919) 481-1442

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LABORATORY REPORT

LEAD IN PAINT

Client: **Gel Engineering, LLC**
2040 Savage Road
Charleston, SC 29407

CEI Lab Code: C14-0637
Received: 11-11-14
Analyzed: 11-13-14
Reported:

Project: hdgp00114

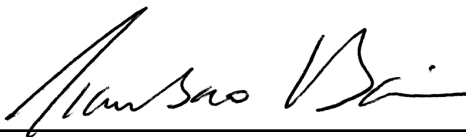
ANALYSIS METHOD: EPA SW846 7000B

CLIENT ID	CEI LAB ID	PPM (µg/g)	CONCENTRATION % BY WEIGHT
LP-1	CA50044	<53	<0.0053
LP-2	CA50045	1600	0.16
LP-3	CA50046	79	0.0079
LP-4	CA50047	<68	<0.0068
LP-5 Sample weight below protocol guidelines	CA50048	2400	0.24

ANALYSIS METHOD: EPA SW846 7000B

CLIENT ID	CEI LAB ID	PPM (µg/g)	CONCENTRATION % BY WEIGHT
-----------	---------------	------------	------------------------------

Reviewed By:



Tianbao Bai, Ph.D.
Laboratory Director

This method has been validated for sample weights of 0.020g or greater. When samples with a weight of less than that are analyzed those results fall outside of the scope of accreditations.

*** The analysis of composite wipe samples as a single samples is not included under AIHA accreditation.**

Minimum reporting limit is 20 µg total lead. Sample results denoted with a "less than" (<) sign contain less than 20.0 µg total lead, based on a 40ml sample volume.

Lead samples are not analyzed by CEI Labs Lead samples are submitted to an AIHA ELLAP accredited laboratory for lead analysis of soil, dust, paint, and TCLP samples.

Laboratory results represent the analysis of samples as submitted by the client. Information regarding sample location, description, area, volume, etc., was provided by the client. Unless notified in writing to return samples, CEI Labs discards client samples after 30 days. This report shall not be reproduced, except in full, without the written consent of CEI Labs.

**REGULATORY
LIMITS**

OSHA Standard: No safe limit.
Consumer Products Safety Standard: Greater than 0.06% lead by weight.
Federal Lead Standard / HUD: 0.5% lead by weight.

LEGEND

µg = microgram
ml = milliliter

ppm = parts per million
Pb = lead

g = grams
wt = weight

End of Report



107 New Edition Court, Cary, NC 27511

Tel: 866-481-1412; Fax: 919-481-1442

METALS CHAIN OF CUSTODY

LAB USE ONLY:

CEI Lab Code: C14-0637

CEI Lab I.D. Range: CAS0044-CAS0048

COMPANY INFORMATION		PROJECT INFORMATION	
CEI CLIENT #:	<u>26512</u>	Job Contact:	<u>Sarah Browning</u>
Company:	<u>GEL Engineering</u>	Email / Tel:	<u>Sarah.browning@gel.com</u>
Address:	<u>2040 Savage Rd</u>	Project Name:	
	<u>Charleston, SC 29407</u>	Project ID#	<u>hdg000114</u>
Email:	<u>Sarah.browning@gel.com</u>	PO #:	
Tel:		STATE SAMPLES COLLECTED IN:	<u>SC</u>

IF TAT IS NOT MARKED STANDARD 3 DAY TAT APPLIES.

ASBESTOS	METHOD	TURN AROUND TIME					
		4 HR**	8 HR**	24 HR**	2 DAY	3 DAY	5 DAY
LEAD PAINT	EPA SW846 7000B				<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
LEAD WIPE	EPA SW846 7000B				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
LEAD SOIL	EPA SW846 7000B				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
LEAD AIR	NIOSH 7082				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
LEAD TCLP	EPA SW846 7000B				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
RCRA 8 METALS	EPA SW846 7000B				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
RCRA 8 TCLP	EPA SW846 7000B				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
OTHER:					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**TAT IS NOT AVAILABLE. LEAD SAMPLES ARE SUBCONTRACTED FOR ANALYSIS TO AN ELLAP ACCREDITED LAB.

REMARKS:		<input checked="" type="checkbox"/> Accept Samples <input type="checkbox"/> Reject Samples	
Relinquished By:	Date/Time	Received By:	Date/Time
<u>[Signature]</u>	<u>11-10-14</u>	<u>[Signature]</u>	<u>11/11/14 9:50a</u>

Samples will be disposed of 30 days after analysis