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**NESHAP Renovation Asbestos Survey**

*Laurel Street Bridge  
over Hillsborough River  
Downtown Tampa, FL*

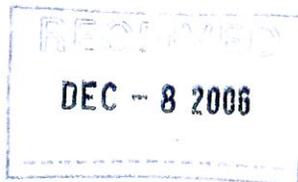
*November 15-28, 2006*

*Prepared for:*

*Mr. Jim Burnside P.E., Streets Engineer  
Transportation Division  
City of Tampa  
306 East Jackson Street, 4E  
Tampa, Florida 33602*

*Patricia Craig*  
\_\_\_\_\_  
Patricia Craig  
LAC: AX-0000005

Date *12-06-2006*



**Project # AD-25553**

*Prepared by:*

**APOLLO ENVIRONMENTAL, INC.**

*P.O. Box 239  
Gibsonton, Florida  
(800) 348-3181*



## Table of Contents

Scope of Work .....	2
Executive Summary .....	2
Asbestos Containing Materials Summary Table .....	2
Recommendations .....	3
Location and Analysis Summary Table .....	3
Site Characteristics .....	6
Asbestos Survey Protocol .....	8

Appendix 1      Photographs of Sampled Materials

Appendix 2      Asbestos Sample Analysis Sheets

Appendix 3      Survey Certifications

### Scope of Work

At the request of Mr. Jim Burnside, Streets Engineer of the City of Tampa, Transportation Division, Apollo Environmental, Inc., conducted a Limited NESHAPS renovation asbestos survey of the Laurel Street Drawbridge in downtown Tampa. The scope of the survey includes the mechanical and structural components of the bridge, but does not include the bridge tender house and its roof. The mechanical rooms (under tender house) and the roofing over the east end of the mechanical rooms are included in the survey.

### Executive Summary

On November 15-20, 2006, Mr. Michael Witt, surveyor/inspector for Apollo Environmental, Inc., conducted the survey of the above building. Upon inspection of the areas, 25 homogeneous areas (HA's) were identified as a suspect asbestos-containing material and 51 samples were collected. Polarized light microscopy (PLM) analysis found three (3) of the HA's to be asbestos-containing materials (ACM).

ASBESTOS CONTAINING MATERIALS SUMMARY TABLE					
HA #	Location	Material Description (ACM in Bold)	Area (sf/lf)	NESHAP Category	Condition
12	1 in north ME room, 1 in south ME room, 4 in bridge crossing barricades, 1 in bridge motor lock ME box, 1 in manual bridge lock box.	small brake shoes 4" to 1'	7 sf	II	Good
13	2 in north ME room (1 main, 1 auxiliary), 1 in south ME room	large brake shoes 2'	6 sf	II	Good
18	between sheet metal layers of bridge electric lock mechanical box on north underside of bridge and manual lock box	tar paper gaskets (ACM)	180 sf	I	Good

### Recommendations

1. Notification is required by the Hillsborough County Environmental Protection Commission (HCEPC) prior to renovation which involves asbestos or prior to demolition.
2. A copy of this survey and any previous survey reports should be on site during renovation/demolition activities.
3. **Regulated** ACM, and ACM materials that **are likely** to become **Regulated** due to renovation or demolition activities (some **Category I** and **Category II** materials), and ACM that is not roofing or flooring materials need to be removed by a licensed asbestos removal contractor prior to general construction activities. Category I & II materials become Regulated when subjected to sanding, grinding, cutting, or abrading.
4. If materials are found other than as detailed in this report, analysis of these materials are required prior to disturbance. Or, these materials may be assumed to contain asbestos and dealt with accordingly.

Location and Analysis Summary of Suspect Materials						
HA #	Sample #(s)	Location (Rooms)	Material Description	Approx. Area (sf/lf)	ACM Type and Content	Friable or Non-Friable
1	1,2	bridge span-concrete counter weight and along cracks of interior walls of north and south ME rooms	beige patches	40 sf	None Detected	N
2	3,4	2 metal hatches at top of bridge concrete counter weight	gasket/rusty debris	24 sf	None Detected	F
3	5,6	under hand rail stanchions - 66 locations	hard black gaskets	66 sf	None Detected	N
4	7,8	east and west ends where metal bridge span attaches to concrete bridge	tar gasket	15 sf	None Detected	N

**Location and Analysis Summary of Suspect Materials**

HA #	Sample #(s)	Location (Rooms)	Material Description	Approx. Area (sf/lf)	ACM Type and Content	Friable or Non-Friable
5	9,10	random patches on top of concrete side walk and base of bridge tender house	soft gray caulk	60 sf	None Detected	N
6	11,12	bridge span-concrete counter weight	cementitious patches	20 sf	None Detected	N
7	13,14	between steel beams at top of bridge span-concrete counter weight	hard caulk	10 sf	None Detected	N
8	15,16	on all metal bridge components	gray paint	10000 sf	None Detected	N
9	17,18	north and south ME rooms, ceiling areas - between I-beam and lintel	cement filler	120 sf	None Detected	N
10	19,20	north and south ME rooms, ceiling areas - between lintel and ceiling deck	cement filler	120 sf	None Detected	N
11	21-23	random coating on interior and exterior walls of north and south ME rooms	1/8" cement coating on concrete	5000 sf	None Detected	N
12	24,25	1 in north ME room, 1 in south ME room, 4 in bridge crossing barricades, 1 in bridge motor lock ME box, 1 in manual bridge lock box.	small brake shoes 4" to 1'	7 sf	50% chrysotile asbestos	N
13	26,27	2 in north ME room (1 main, 1 auxiliary), 1 in south ME room	large brake shoes 2'	6 sf	50% chrysotile asbestos	
14	28,29	2 windows in north ME room, 5 in south ME room (3 installed, 2 leaning against wall)	window pane glazing	63 sf	None Detected	N
15	30,31	bottom of bridge deck	cement	9000 sf	None Detected	N
16	32,33	bottom of bridge deck, between horizontal I-beams and lintels	cement filler	350 sf	None Detected	N

**Location and Analysis Summary of Suspect Materials**

HA #	Sample #(s)	Location (Rooms)	Material Description	Approx. Area (sf/lf)	ACM Type and Content	Friable or Non-Friable
17	34,35	bottom of bridge deck, between lintels and bridge deck	cement filler	350 sf	None Detected	N
18	36,37	between sheet metal layers of bridge electric lock mechanical box on north underside of bridge and manual lock box	tar paper gaskets (ACM)	180 sf	75% chrysotile in tar	N
19	38,39	expanded metal on roadway of metal bridge span- east and west most ends	cementitious filler in expanded metal	540 sf	None Detected	N
20	40,41	under the 2 hydraulic shock pistons at east end of metal span	black rubbery gaskets	4 sf	None Detected	N
21	42,43	random locations on metal surfaces throughout the bridge mostly over HA 8	newer silver paint on red primer layer	3500 sf	None Detected	N
22	44,45	flat roof field and curbing and parapet walls: Lower roof over east ends of north and south ME rooms	roof field: gray paint on tar paper layers on plywood	600 sf	None Detected	N
23	46,47	2 windows in north ME room, 5 in south ME room (3 installed, 2 leaning against wall)	metal window frames-hard adhesive	10 sf	None Detected	N
24	48,49	north and south ME rooms: metal covers over open gears	metal covers with soft caulk	8 sf	None Detected	N
25	50,51	electrical access boxes (in sidewalk) for light poles	hard putty/gasket material	12 sf (30 boxes)	None Detected	F

## Site Characteristics

- General:** The Laurel Street Bridge was built in the 1920's. The tender house is not included as part of this survey, but the roofing over the east ends of the mechanical equipment (ME) rooms are part of the survey as are the ME rooms. Accessible electrical boxes were inspected and no suspect materials were observed inside the boxes. Only suspect materials that were accessible on the surface of bridge materials and machinery were sampled. An interview with Mr. Buddy Evans revealed that the bridge has been stripped and repainted in the past and that the electrical control systems have been replaced.
- Roofing:** Roofing was limited to the east roofing covering the east ends of the ME rooms. The following suspect roofing materials were identified and sampled:  
HA-22: roofing materials
- Ceilings:** The following suspect ceiling materials were identified and sampled:  
HA-9: cement filler  
HA-10: cement filler
- Walls:** The following suspect wall materials were identified and sampled:  
HA-11: cement coating on concrete
- Floors:** No suspect floor materials were identified and/or sampled.
- HVAC:** None within the scope of this survey.
- Plumb.:** Water supply and water drain pipes are non-insulated. No suspect materials were observed.
- Misc:** The following suspect miscellaneous materials were identified and sampled:  
HA-1: beige patches  
HA-2: gasket/rusty debris  
HA-3: hard black gaskets  
HA-4: tar gasket  
HA-5: soft gray caulk  
HA-6: cementitious patches  
HA-7: hard caulk  
HA-8: gray paint  
HA-12: small brake shoes  
HA-13: large brake shoes  
HA-14: window pane glazing  
HA-15: cement

HA-16:	cement filler
HA-17:	cement filler
HA-18:	tar paper gaskets
HA-19:	cementitious filler in expanded metal roadway
HA-20:	black rubbery gaskets
HA-21:	newer silver paint on red primer
HA-23:	hard adhesive - metal window frames
HA-24:	soft caulk on metal covers
HA-25:	hard putty/gasket material

### COMMENTS

In the north side ME room is a gas powered motor for auditory backup. The air intake metal duct has a non-suspect rubber vibration isolator. The exhaust pipe and muffler are metal with no insulation on them.

The electrical boxes were inspected inside and out in the north and south ME rooms and no suspect gaskets were observed.

The pillar block bearings have metal gaskets and shims with concrete and metal foundation areas. No suspect materials were observed.

Bridge span mechanical equipment has a mixture of metal gaskets and shims with concrete and metal foundation areas.

An old blueprint that was provided indicated some asbestos protected metal in four locations, but the material could not be located. It is assumed that those materials have been removed during a prior renovation or the materials are inaccessible.

## Asbestos Survey Protocol

The purpose of this survey was to locate and assess the suspect asbestos-containing materials as defined in the Scope of Work. The site was surveyed for the presence of materials that are typically suspect to contain asbestos. As these materials were identified, bulk samples were obtained and placed into individual sample containers for transport to the Apollo laboratory. Suspect materials were sampled in an effort to obtain all representative layers that characterize their composition. All sample locations were identified by a numbered label. These numbers directly correspond with the numbers listed in the analytical results tables, laboratory analysis sheets and drawings.

Prior to collecting any samples, distinct homogeneous sampling areas are identified and a sampling strategy is developed. A **homogeneous sampling area** can be described as any suspect asbestos material that is similar in appearance and texture, having similar installation, age, use and function.

Each suspected asbestos-containing material was classified as either friable or non-friable. **Friable** materials as defined by the EPA may be crumbled, pulverized, or reduced to a powder by hand pressure when dry. Friable asbestos-containing material is usually more hazardous than non-friable asbestos-containing materials because it has greater potential to readily release airborne asbestos fibers.

Materials that were hidden or not accessible were not evaluated as part of this survey. These materials should be analyzed if and when they are located during any renovation or demolition. Materials visibly identifiable as non-asbestos (fibrous glass, foam rubber, wood, etc.) were not sampled.

Bulk asbestos samples were analyzed by Apollo by polarized light microscopy using dispersion staining techniques according to US EPA method 600/M4-82-020 incorporating visual estimates of identified materials percentages and Apollo's NVLAP accredited procedures.

Any material that contains greater than one percent of any type of asbestos fibers is considered by the EPA, OSHA and the State of Florida, an **asbestos-containing material (ACM)** and must be handled according to regulations.

Apollo Environmental, Inc. participates in the National Voluntary Laboratory Accreditation Program (NVLAP), and other quality control programs for asbestos analysis.

## STATEMENT ON THE USE AND APPLICATION OF STANDARDS QUOTED IN THIS REPORT

This survey has been conducted in accordance with general industry guidelines. This

assessment has been prepared for the sole use of the client. Its contents should not be relied upon by other parties without the express written consent of Apollo Environmental, Inc., and the client.

The information and conclusions presented in his report are valid only for the circumstances of the sites investigated as described in this report as they existed during the time period of the investigation.

This report does not constitute a warranty, guaranty, or representation (a) of the absolute absence of hazardous or otherwise harmful substances or conditions found on the sites or (b) if such substances and conditions are on the sites, that the investigation accurately defined the degree and extent of possible contamination of the sites.

Apollo Environmental, Inc., evaluated the reasonableness and completeness of all relevant information, but does not assume responsibility for the truth or accuracy of any information provided to Apollo Environmental Inc. by others or for the lack of information that is intentionally, unintentionally, or negligently withheld from Apollo by others. Professional judgement was exercised in gathering and evaluating the information obtained, and Apollo commits itself to the usual care, thoroughness and competence of the industrial hygiene/environmental profession.

This report is based on information made available at the time of the inspections. The opinions expressed draw upon the background, training and experience of the personnel involved in the investigation. Should additional information become available, Apollo Environmental, Inc., reserves the right to determine the weight and impact, if any, of the new information on our opinions and conclusions, and to revise the opinions and conclusions if necessary and warranted by the discovery of the additional information.

After acceptance of this report, if Apollo obtains information that it believes warrants further exploration and development, Apollo will endeavor to provide that information to the Client, but Apollo will not be liable for not doing so.

This report is neither a legal opinion nor compliance with any environmental laws or "due diligence inquiry." Only legal counsel retained by the Client is competent to determine the legal implications of information or conclusions contained in this report.

Apollo is not responsible for any effect upon the Client or others' legal rights, obligations, or liabilities or for any effect upon the finance ability, marketability, or value of the property or for the occurrence or non-occurrence of any transaction involving the property based upon the information stated in this report.

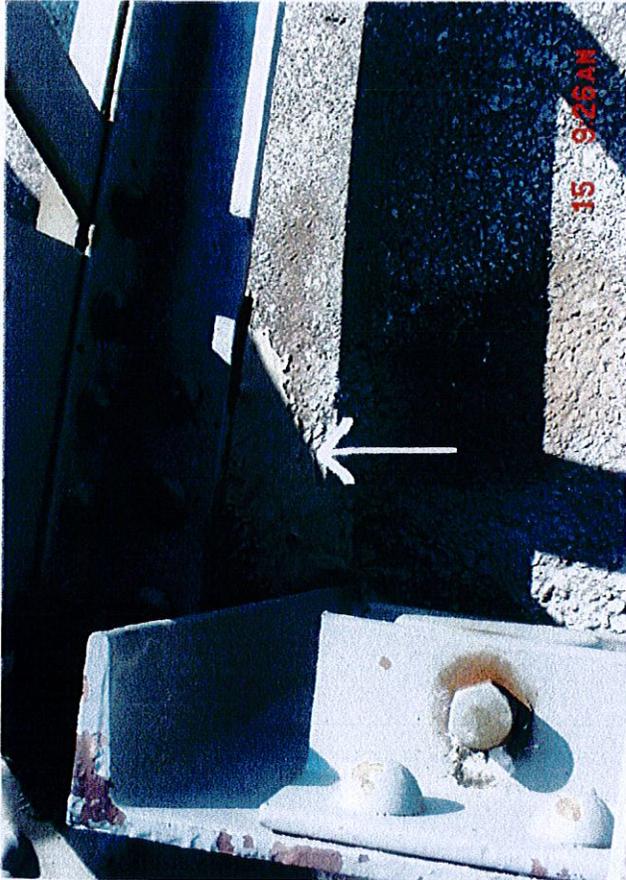
To achieve the study objectives stated in this report, Apollo based its conclusions on the best information available during the period of the investigation and within the limits prescribed by the Client.

Apollo Environmental, Inc., has included in this report standards and other recommended acceptable levels for asbestos containing materials based on the findings and publications of several U.S. government agencies, independent industrial hygiene organizations and other bodies. These are intended to be used as guidelines to assist in the assessment and control of ACM and should, therefore, be interpreted and applied only for these purposes. Standards and methods used in this report are taken from the most appropriate references available

**Appendix 1**

**Photographs of Sampled Materials**

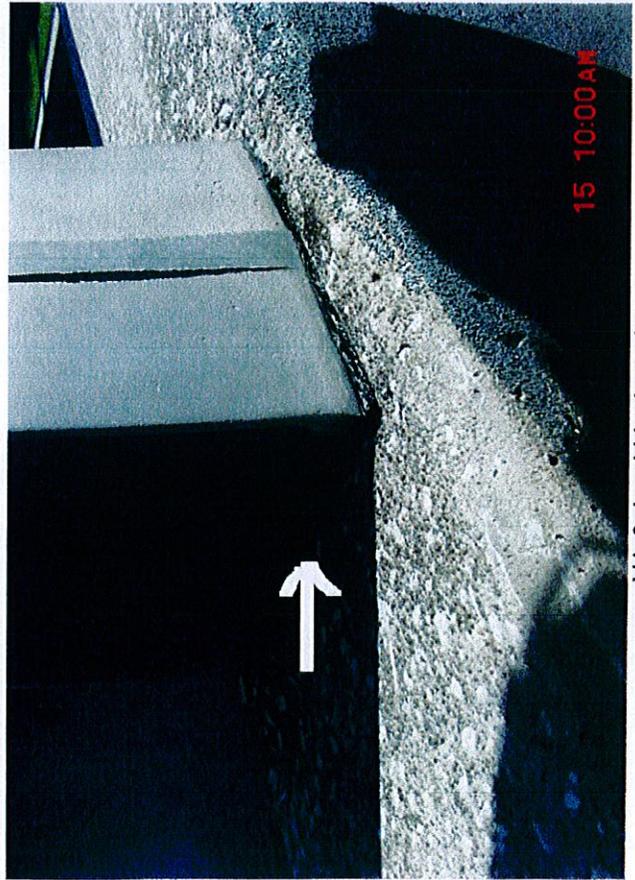
City of Tampa, Laurel Street Bridge



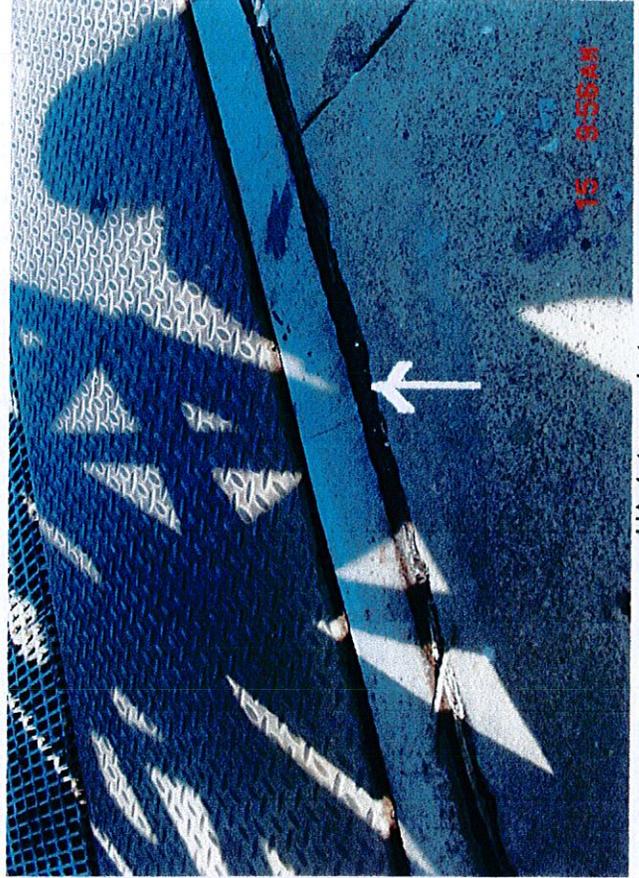
HA-1, beige patches



HA-2, metal hatch gasket-rusty debris



HA-3, hard black gasket

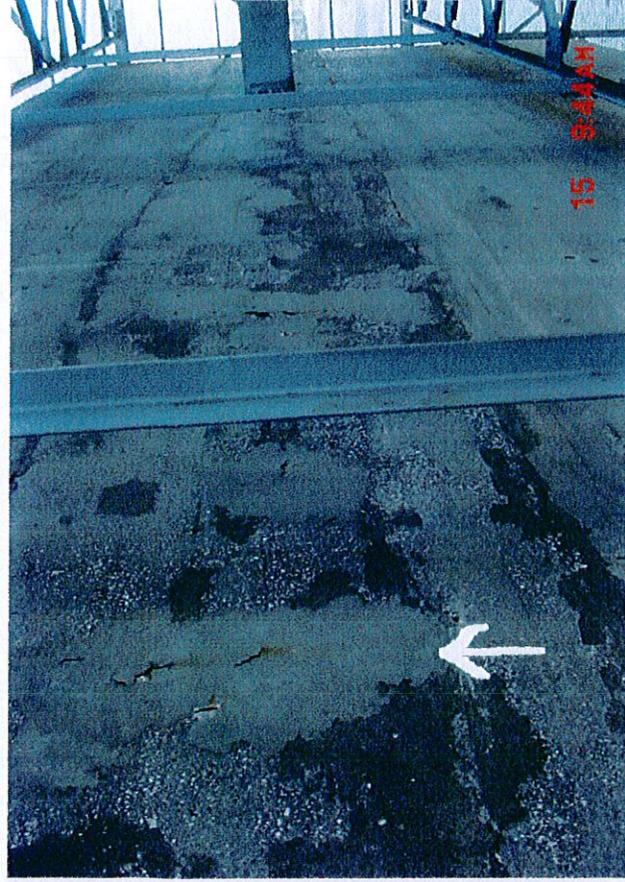


HA-4, tar gasket

City of Tampa, Laurel Street Bridge



HA-5, soft gray caulk



HA-6, cementitious patches

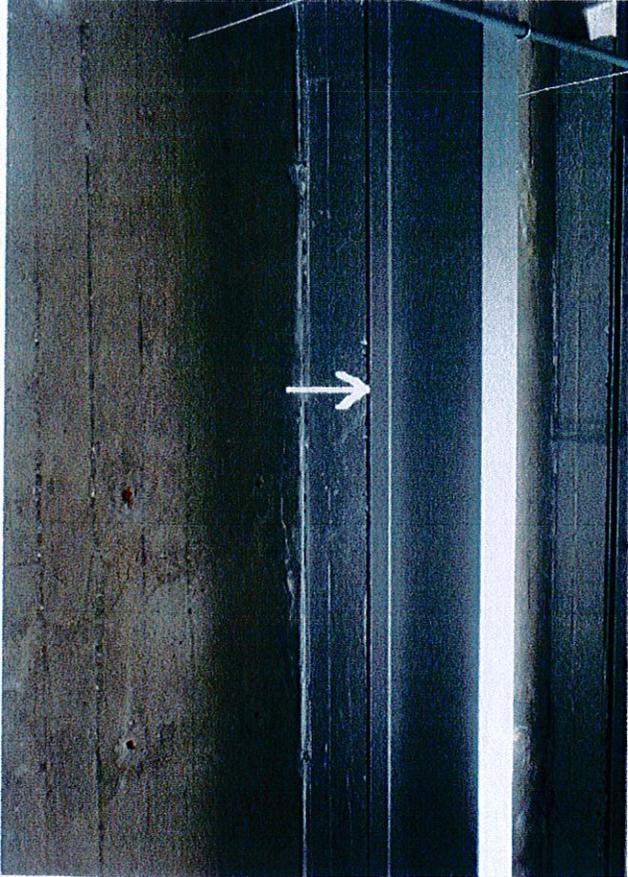


HA-7, hard caulk

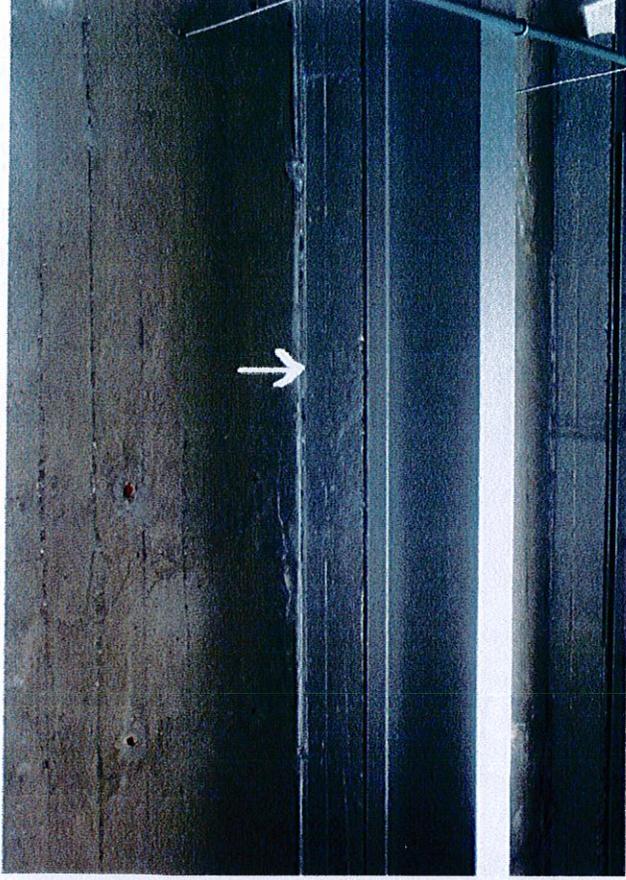


HA-8, gray paint

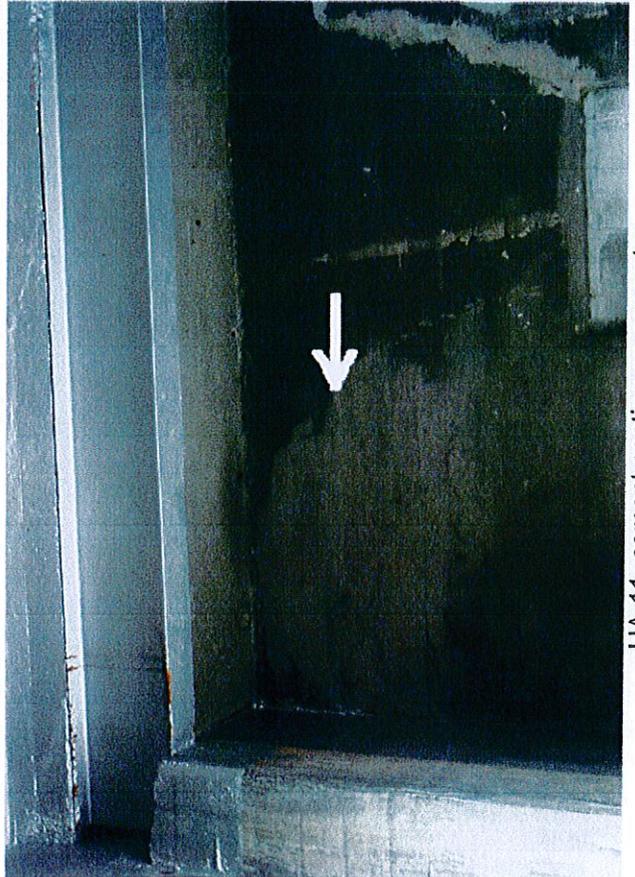
City of Tampa, Laurel Street Bridge



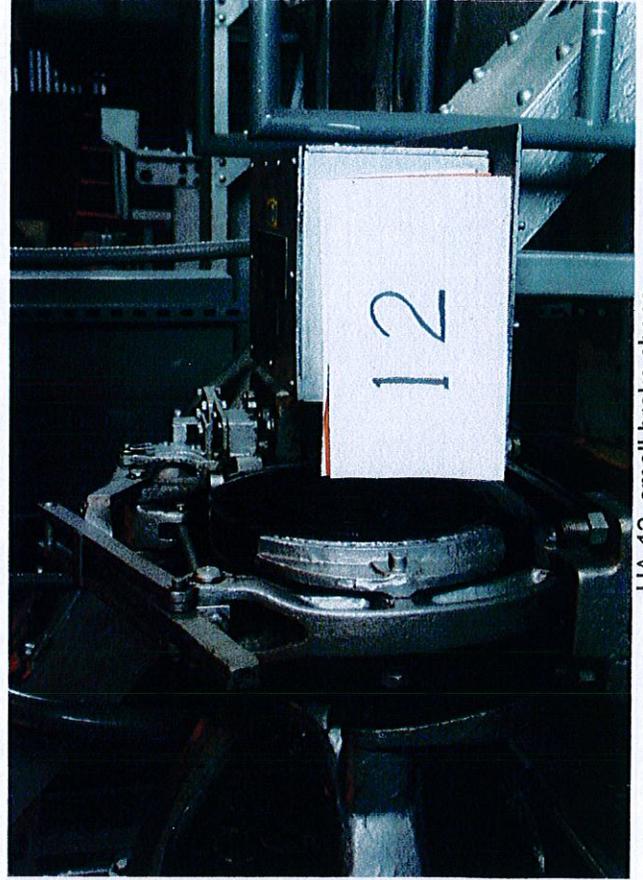
HA-9, cement filler



HA-10, cement filler



HA-11, cement coating on concrete



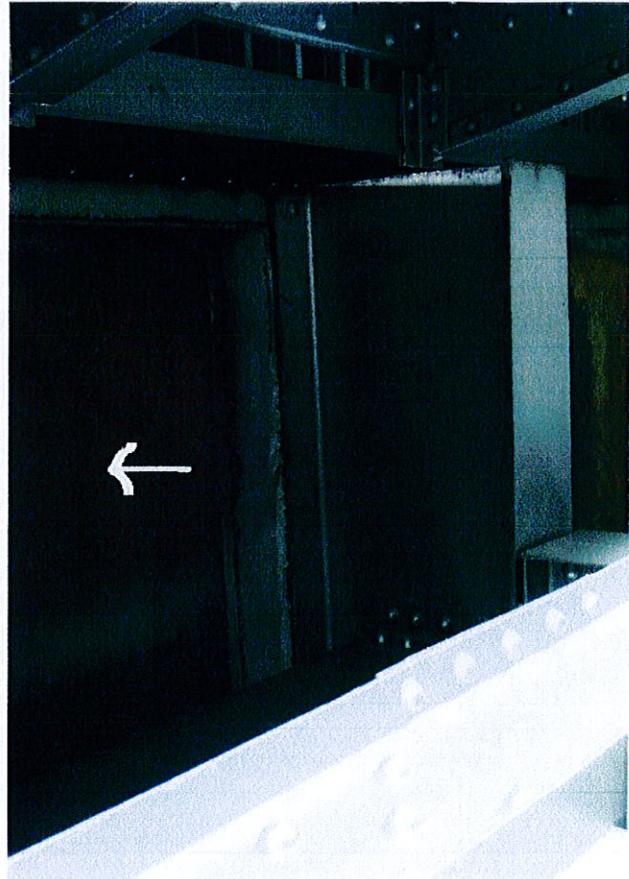
HA-12, small brake shoes



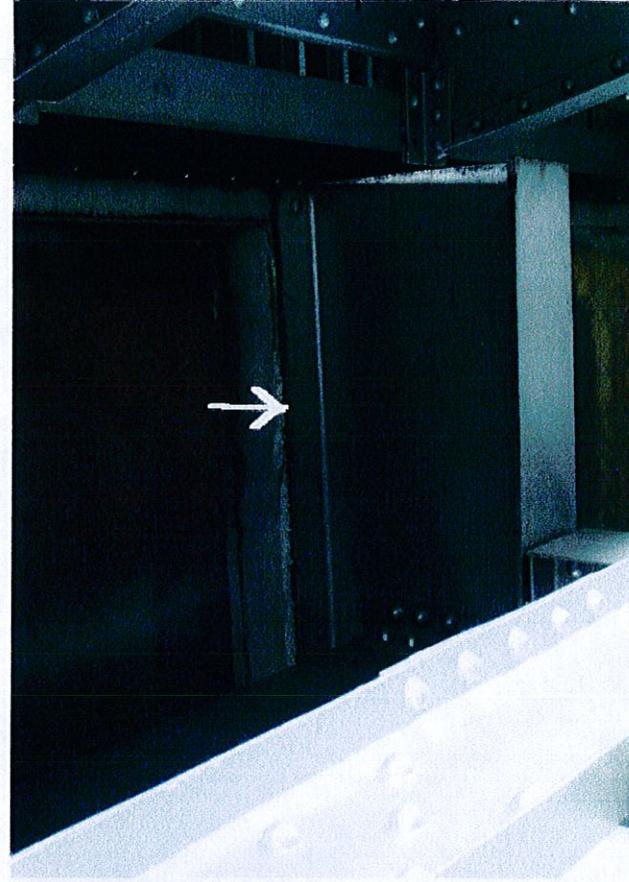
HA-13, large brake shoes



HA-14, window pane glazing

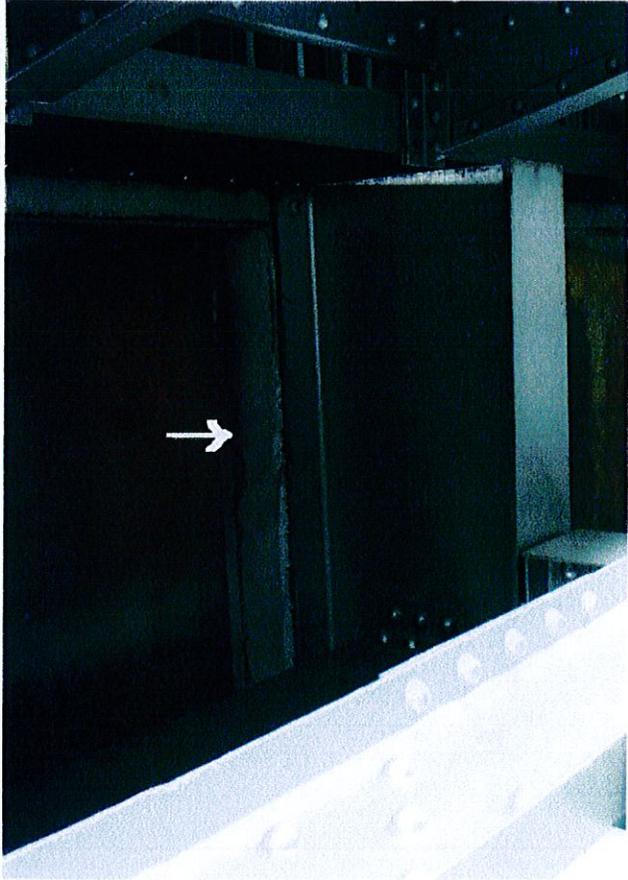


HA-15, cement

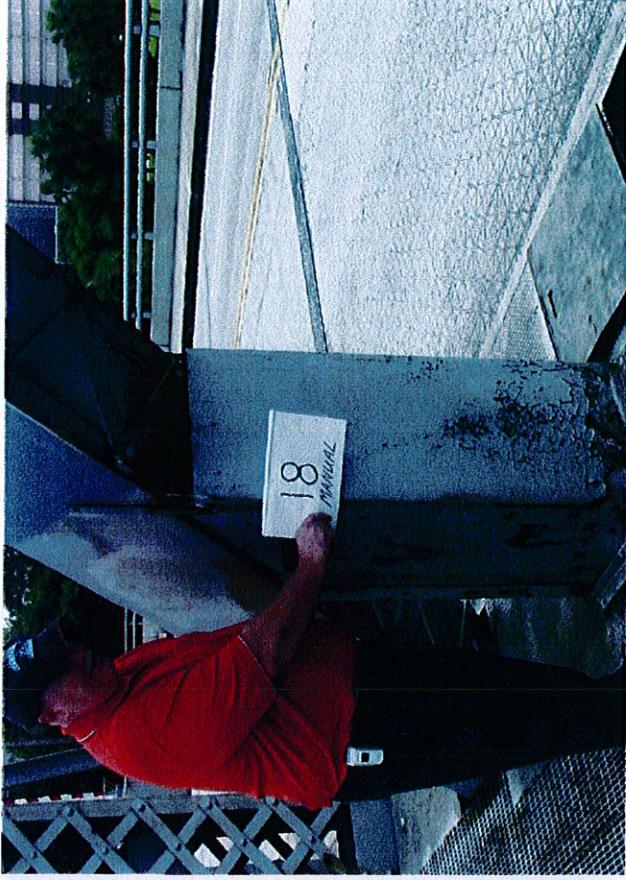


HA-16, cement filler

City of Tampa, Laurel Street Bridge



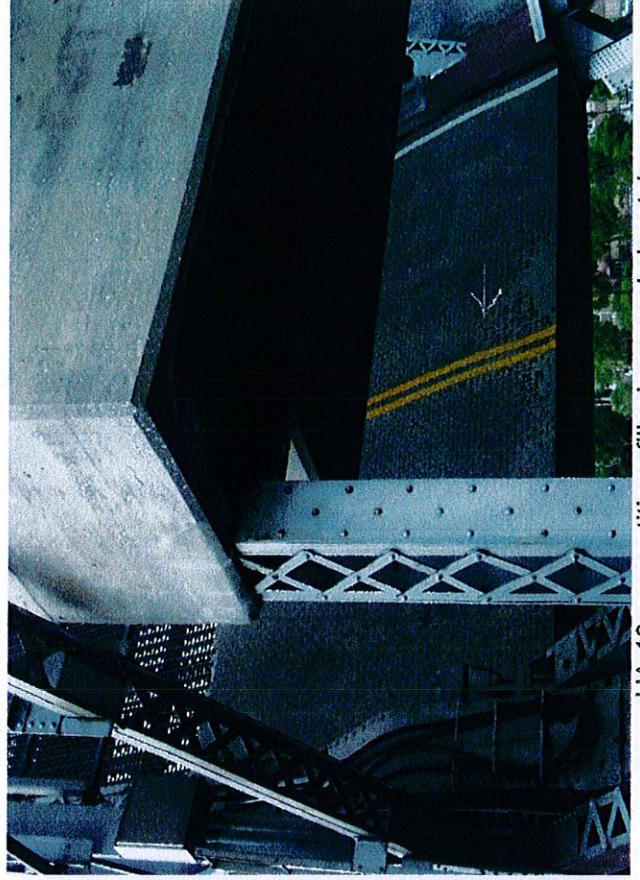
HA-17, cement filler



HA-18, tar paper gasket - manual lock box

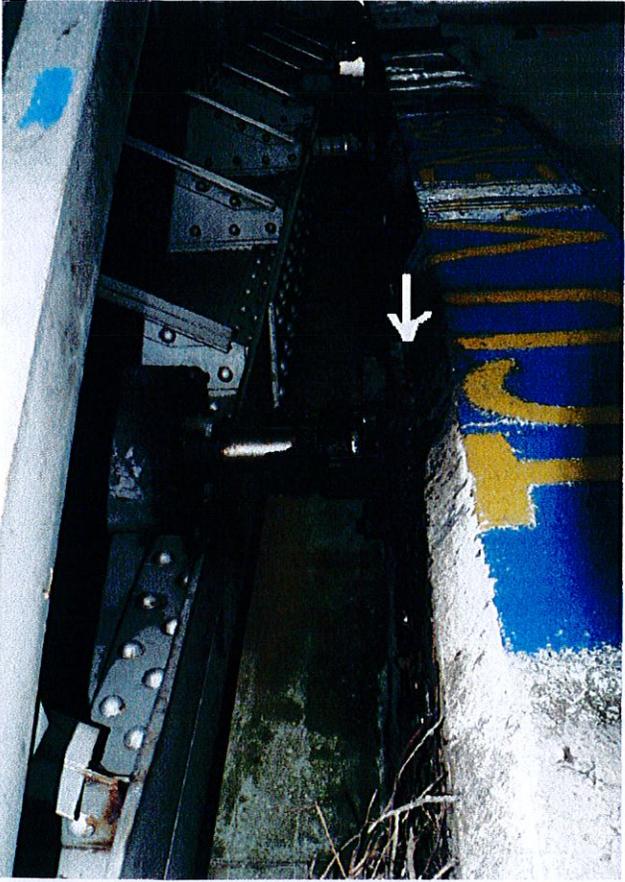


HA-18, tar paper gaskets - electric lock box

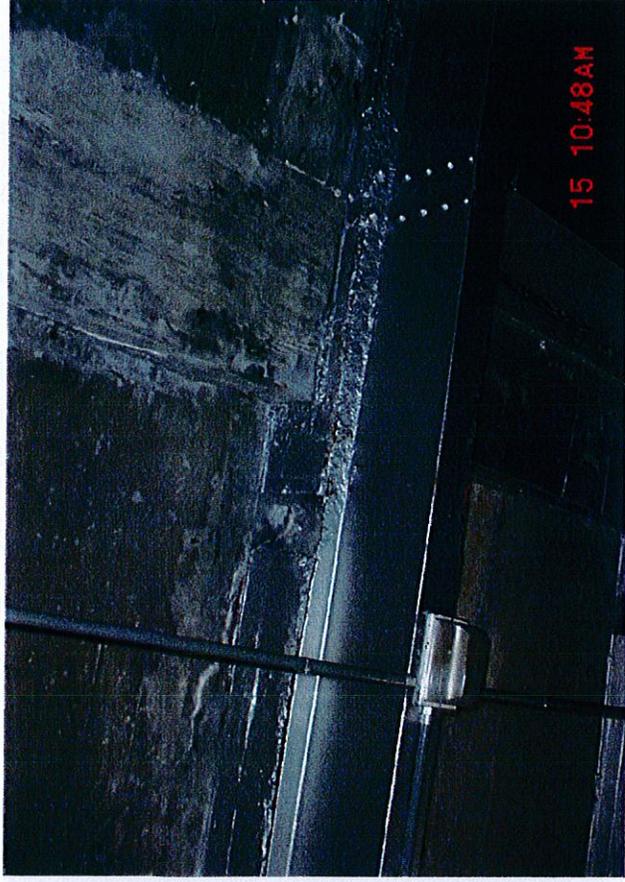


HA-19, cementitious filler in expanded metal

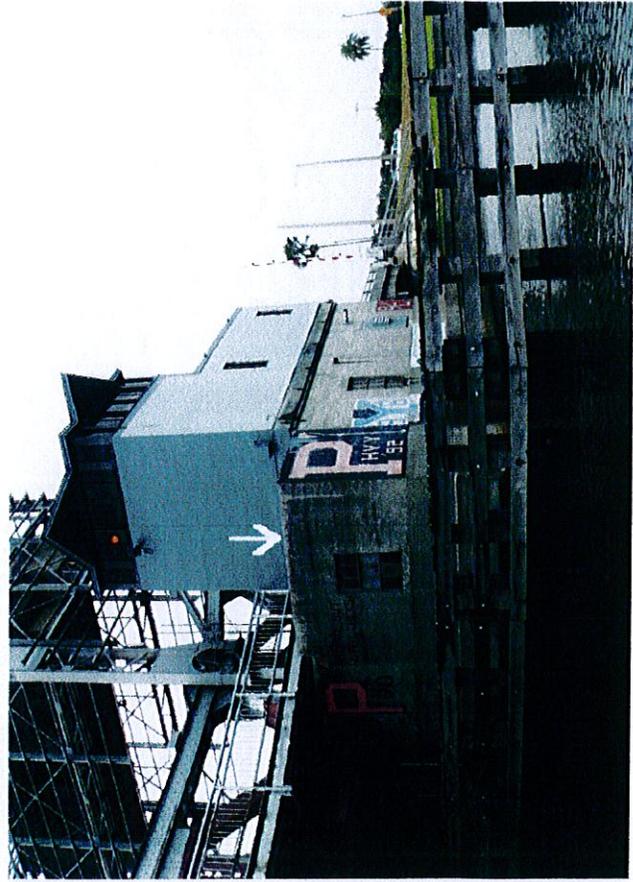
City of Tampa, Laurel Street Bridge



HA-20, black rubbery gaskets



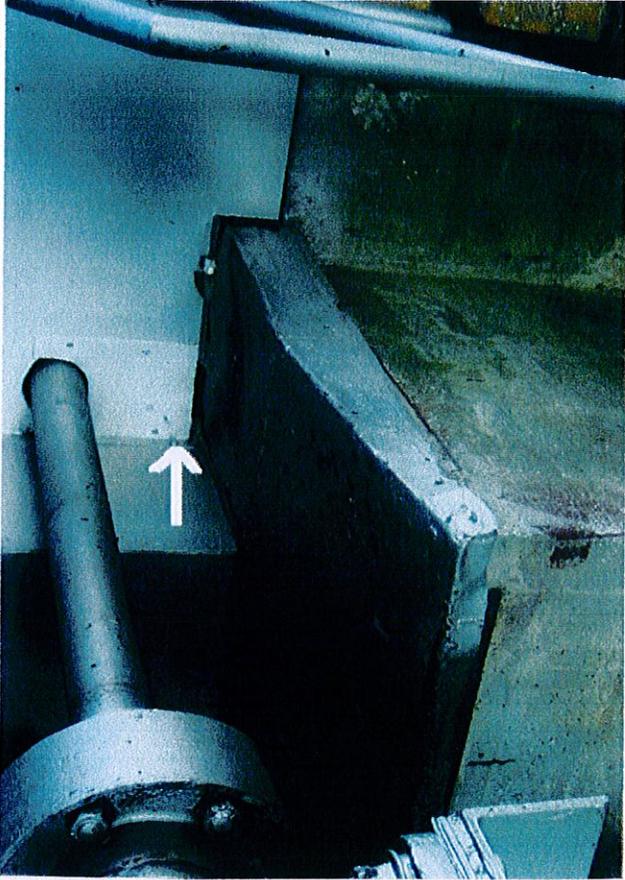
HA-21, newer silver paint on red primer



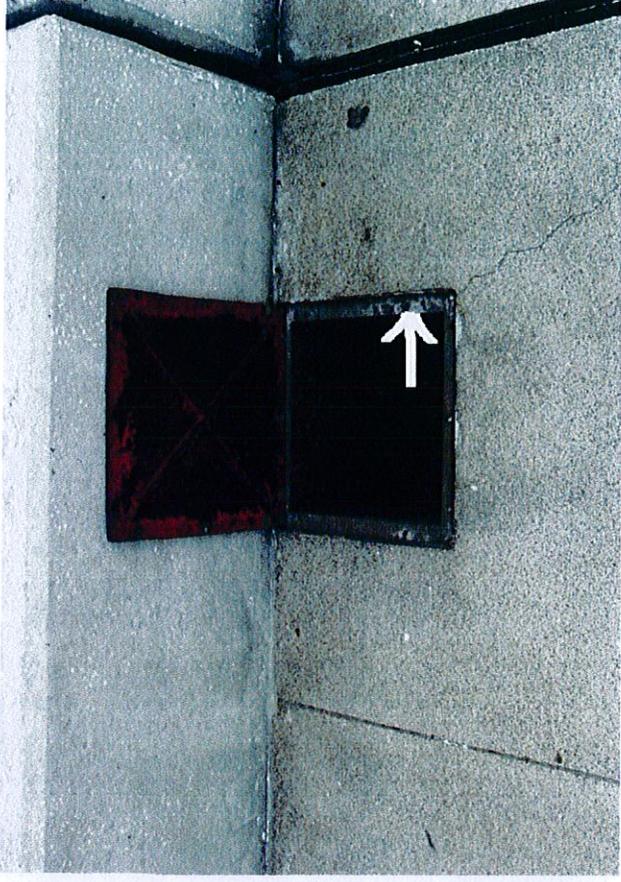
HA-22, roofing



HA-23, hard adhesive around metal window frames



HA-24, metal covers with soft caulk



HA-25, hard putty gasket material

**Appendix 2**  
**Sample Analysis Sheets**

APOLLO ENVIRONMENTAL, INC.

11553 U.S. Hwy 41 South  
Gibsonton, FL 33534 (813) 671-3999

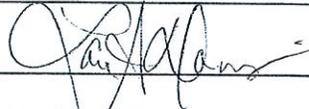
POLARIZED LIGHT MICROSCOPY / BULK SAMPLE ANALYSIS

DATE: November 17, 2006  
CLIENT: City of Tampa  
PROJECT: Laurel Street Bridge  
DATE COLLECTED: November 15, 2006  
COLLECTED BY: Mike Witt  
ANALYST: Lara A. Davis  
PROJECT NUMBER: AD-25553  
SAMPLE ID.: 001 (1 of 49)  
LABORATORY NUMBER: 065550  
SAMPLE/LOCATION: White caulk patch from top - counter weight area,  
Homogeneous Area #1.

SAMPLE DESCRIPTION: Off-white, cementitious aggregate.

Asbestos Minerals	Estimated Percentage
Chrysotile	-
Amosite	-
Crocidolite	-
Anthophyllite	-
Tremolite/Actinolite	-
<hr/>	
Total Asbestos Content = None Detected	
Cellulose	0
Fibrous Glass	0
Synthetic Fibers	0
Other	0
Nonfibrous	0
	<hr/>
	100
Total	100

Comments: No asbestos detected in any layer.

Respectfully submitted, 

The above test report relates only to the items tested. Analyses performed according to EPA's, Interim Method for the Determination of Asbestiform Minerals in Bulk Insulation Samples, EPA-600/R-93/116

It has been established that PLM may miss small percentages of asbestos in bulk samples, thus negative PLM results cannot be guaranteed.

Client accepts visual estimate of asbestos content and waives EPA requirement to point count samples with asbestos content between trace and 10% asbestos.

NVLAP ID #1871 (This report cannot be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government)

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(Revision 4, September 2005)

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DATE COLLECTED: November 15, 2006  
COLLECTED BY: Mike Witt  
ANALYST: Lara A. Davis  
PROJECT NUMBER: AD-25553  
SAMPLE ID.: 002 (2 of 49)  
LABORATORY NUMBER: 065551  
SAMPLE/LOCATION: White caulk patch from top - counter weight area,  
Homogeneous Area #1.

SAMPLE DESCRIPTION: Off-white, cementitious aggregate.

**Asbestos Minerals**

Estimated Percentage

Chrysotile	-
Amosite	-
Crocidolite	-
Anthophyllite	-
Tremolite/Actinolite	-
<b>Total Asbestos Content = None Detected</b>	
Cellulose	0
Fibrous Glass	0
Synthetic Fibers	0
Other	0
Nonfibrous	<u>100</u>
Total	100

Comments: No asbestos detected in any layer.

Respectfully submitted, 

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PROJECT: Laurel Street Bridge  
DATE COLLECTED: November 15, 2006  
COLLECTED BY: Mike Witt  
ANALYST: Lara A. Davis  
PROJECT NUMBER: AD-25553  
SAMPLE ID.: 003 (3 of 49)  
LABORATORY NUMBER: 065552  
SAMPLE/LOCATION: Hatch gasket (rust), from top - counter weight area, Homogeneous Area #2.  
SAMPLE DESCRIPTION: Rust debris.

Asbestos Minerals	Estimated Percentage
Chrysotile	-
Amosite	-
Crocidolite	-
Anthophyllite	-
Tremolite/Actinolite	-
<b>Total Asbestos Content = None Detected</b>	
Cellulose	0
Fibrous Glass	0
Synthetic Fibers	0
Other	0
Nonfibrous	100
Total	100

Comments: No asbestos detected in any layer.

Respectfully submitted, 

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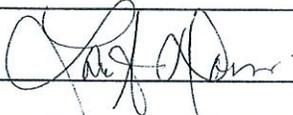
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DATE COLLECTED: November 15, 2006  
COLLECTED BY: Mike Witt  
ANALYST: Lara A. Davis  
PROJECT NUMBER: AD-25553  
SAMPLE ID.: 004 (4 of 49)  
LABORATORY NUMBER: 065553  
SAMPLE/LOCATION: Hatch gasket (rust), from top - counter weight  
area, Homogeneous Area #2.  
SAMPLE DESCRIPTION: Rust debris.

Asbestos Minerals	Estimated Percentage
Chrysotile	-
Amosite	-
Crocidolite	-
Anthophyllite	-
Tremolite/Actinolite	-
<b>Total Asbestos Content = None Detected</b>	
Cellulose	0
Fibrous Glass	0
Synthetic Fibers	0
Other	0
Nonfibrous	100
Total	100

Comments: No asbestos detected in any layer.

Respectfully submitted, 

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POLARIZED LIGHT MICROSCOPY / BULK SAMPLE ANALYSIS

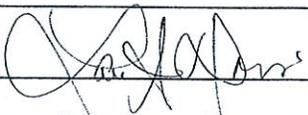
DATE: November 17, 2006  
CLIENT: City of Tampa  
PROJECT: Laurel Street Bridge  
DATE COLLECTED: November 15, 2006  
COLLECTED BY: Mike Witt  
ANALYST: Lara A. Davis  
PROJECT NUMBER: AD-25553  
SAMPLE ID.: 005 (5 of 49)  
LABORATORY NUMBER: 065554  
SAMPLE/LOCATION: Rail station pad (black/white), from road -  
NE span, Homogeneous Area #3.  
SAMPLE DESCRIPTION: Black rubbery paid with white long fiber  
bundles.

Asbestos Minerals	Estimated Percentage
Chrysotile	-
Amosite	-
Crocidolite	-
Anthophyllite	-
Tremolite/Actinolite	-
<hr/>	
Total Asbestos Content = None Detected	
Cellulose	0
Fibrous Glass	0
Synthetic Fibers	70
Other	0
Nonfibrous	30
	<hr/>
Total	100

Comments: No asbestos detected in any layer.

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Respectfully submitted, 

The above test report relates only to the items tested. Analyses performed according to EPA's,  
Interim Method for the Determination of Asbestiform Minerals in Bulk Insulation Samples,  
EPA-600/R-93/116

It has been established that PLM may miss small percentages of asbestos in bulk samples,  
thus negative PLM results cannot be guaranteed.

Client accepts visual estimate of asbestos content and waives EPA requirement  
to point count samples with asbestos content between trace and 10% asbestos.

NVLAP ID #1871 (This report cannot be used to claim product certification, approval,  
or endorsement by NVLAP, NIST, or any agency of the federal government)

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(Revision 4, September 2005)

APOLLO ENVIRONMENTAL, INC.

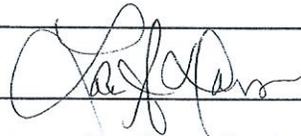
11553 U.S. Hwy 41 South  
Gibsonton, FL 33534 (813) 671-3999

POLARIZED LIGHT MICROSCOPY / BULK SAMPLE ANALYSIS

DATE: November 17, 2006  
CLIENT: City of Tampa  
PROJECT: Laurel Street Bridge  
DATE COLLECTED: November 15, 2006  
COLLECTED BY: Mike Witt  
ANALYST: Lara A. Davis  
PROJECT NUMBER: AD-25553  
SAMPLE ID.: 006 (6 of 49)  
LABORATORY NUMBER: 065555  
SAMPLE/LOCATION: Rail station pad (black/white), from road -  
NE span, Homogeneous Area #3.  
SAMPLE DESCRIPTION: Black rubbery paid with white long fiber  
bundles.

Asbestos Minerals	Estimated Percentage
Chrysotile	-
Amosite	-
Crocidolite	-
Anthophyllite	-
Tremolite/Actinolite	-
<b>Total Asbestos Content = None Detected</b>	
Cellulose	0
Fibrous Glass	0
Synthetic Fibers	70
Other	0
Nonfibrous	30
Total	100

Comments: No asbestos detected in any layer.

Respectfully submitted, 

The above test report relates only to the items tested. Analyses performed according to EPA's,  
Interim Method for the Determination of Asbestiform Minerals in Bulk Insulation Samples,  
EPA-600/R-93/116

It has been established that PLM may miss small percentages of asbestos in bulk samples,  
thus negative PLM results cannot be guaranteed.

Client accepts visual estimate of asbestos content and waives EPA requirement  
to point count samples with asbestos content between trace and 10% asbestos.

NVLAP ID #1871 (This report cannot be used to claim product certification, approval,  
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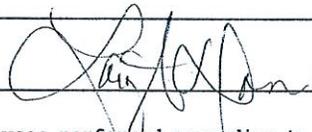
11553 U.S. Hwy 41 South  
Gibsonton, FL 33534 (813) 671-3999

POLARIZED LIGHT MICROSCOPY / BULK SAMPLE ANALYSIS

DATE: November 17, 2006  
CLIENT: City of Tampa  
PROJECT: Laurel Street Bridge  
DATE COLLECTED: November 15, 2006  
COLLECTED BY: Mike Witt  
ANALYST: Lara A. Davis  
PROJECT NUMBER: AD-25553  
SAMPLE ID.: 007 (7 of 49)  
LABORATORY NUMBER: 065556  
SAMPLE/LOCATION: Concrete to metal - road expansion caulk (rust),  
from NE span, Homogeneous Area #4.  
SAMPLE DESCRIPTION: Rust debris.

Asbestos Minerals	Estimated Percentage
Chrysotile	-
Amosite	-
Crocidolite	-
Anthophyllite	-
Tremolite/Actinolite	-
<b>Total Asbestos Content = None Detected</b>	
Cellulose	0
Fibrous Glass	0
Synthetic Fibers	0
Other	0
Nonfibrous	<u>100</u>
Total	100

Comments: No asbestos detected in any layer.

Respectfully submitted, 

The above test report relates only to the items tested. Analyses performed according to EPA's, Interim Method for the Determination of Asbestiform Minerals in Bulk Insulation Samples, EPA-600/R-93/116

It has been established that PLM may miss small percentages of asbestos in bulk samples, thus negative PLM results cannot be guaranteed.

Client accepts visual estimate of asbestos content and waives EPA requirement to point count samples with asbestos content between trace and 10% asbestos.

NVLAP ID #1871 (This report cannot be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government)

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POLARIZED LIGHT MICROSCOPY / BULK SAMPLE ANALYSIS

DATE: November 17, 2006  
CLIENT: City of Tampa  
PROJECT: Laurel Street Bridge  
DATE COLLECTED: November 15, 2006  
COLLECTED BY: Mike Witt  
ANALYST: Lara A. Davis  
PROJECT NUMBER: AD-25553  
SAMPLE ID.: 008 (8 of 49)  
LABORATORY NUMBER: 065557  
SAMPLE/LOCATION: Concrete to metal - road expansion caulk (rust),  
from NE span, Homogeneous Area #4.  
SAMPLE DESCRIPTION: Rust debris.

Asbestos Minerals	Estimated Percentage
Chrysotile	-
Amosite	-
Crocidolite	-
Anthophyllite	-
Tremolite/Actinolite	-
<b>Total Asbestos Content = None Detected</b>	
Cellulose	0
Fibrous Glass	0
Synthetic Fibers	0
Other	0
Nonfibrous	<u>100</u>
Total	100

Comments: No asbestos detected in any layer.

Respectfully submitted, 

The above test report relates only to the items tested. Analyses performed according to EPA's, Interim Method for the Determination of Asbestiform Minerals in Bulk Insulation Samples, EPA-600/R-93/116

It has been established that PLM may miss small percentages of asbestos in bulk samples, thus negative PLM results cannot be guaranteed.

Client accepts visual estimate of asbestos content and waives EPA requirement to point count samples with asbestos content between trace and 10% asbestos.

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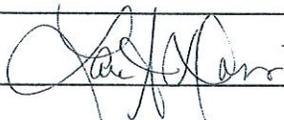
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Gibsonton, FL 33534 (813) 671-3999

POLARIZED LIGHT MICROSCOPY / BULK SAMPLE ANALYSIS

DATE: November 17, 2006  
CLIENT: City of Tampa  
PROJECT: Laurel Street Bridge  
DATE COLLECTED: November 15, 2006  
COLLECTED BY: Mike Witt  
ANALYST: Lara A. Davis  
PROJECT NUMBER: AD-25553  
SAMPLE ID.: 009 (9 of 49)  
LABORATORY NUMBER: 065558  
SAMPLE/LOCATION: Sidewalk caulk (gray), from sidewalk in front of entrance, Homogeneous Area #5.  
SAMPLE DESCRIPTION: Gray, semi-soft, rubbery caulk.

Asbestos Minerals	Estimated Percentage
Chrysotile	-
Amosite	-
Crocidolite	-
Anthophyllite	-
Tremolite/Actinolite	-
<b>Total Asbestos Content = None Detected</b>	
Cellulose	40
Fibrous Glass	0
Synthetic Fibers	0
Other	0
Nonfibrous	<u>60</u>
Total	100

Comments: No asbestos detected in any layer.

Respectfully submitted, 

The above test report relates only to the items tested. Analyses performed according to EPA's, Interim Method for the Determination of Asbestiform Minerals in Bulk Insulation Samples, EPA-600/R-93/116

It has been established that PLM may miss small percentages of asbestos in bulk samples, thus negative PLM results cannot be guaranteed.

Client accepts visual estimate of asbestos content and waives EPA requirement to point count samples with asbestos content between trace and 10% asbestos.

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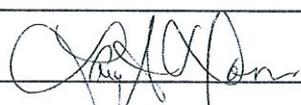
11553 U.S. Hwy 41 South  
Gibsonton, FL 33534 (813) 671-3999

POLARIZED LIGHT MICROSCOPY / BULK SAMPLE ANALYSIS

DATE: November 17, 2006  
CLIENT: City of Tampa  
PROJECT: Laurel Street Bridge  
DATE COLLECTED: November 15, 2006  
COLLECTED BY: Mike Witt  
ANALYST: Lara A. Davis  
PROJECT NUMBER: AD-25553  
SAMPLE ID.: 010 (10 of 49)  
LABORATORY NUMBER: 065559  
SAMPLE/LOCATION: Sidewalk caulk (gray), from sidewalk in front of entrance, Homogeneous Area #5.  
SAMPLE DESCRIPTION: Gray, semi-soft, rubbery caulk.

Asbestos Minerals	Estimated Percentage
Chrysotile	-
Amosite	-
Crocidolite	-
Anthophyllite	-
Tremolite/Actinolite	-
<b>Total Asbestos Content = None Detected</b>	
Cellulose	40
Fibrous Glass	0
Synthetic Fibers	0
Other	0
Nonfibrous	<u>60</u>
Total	100

Comments: No asbestos detected in any layer.

Respectfully submitted, 

The above test report relates only to the items tested. Analyses performed according to EPA's, Interim Method for the Determination of Asbestiform Minerals in Bulk Insulation Samples, EPA-600/R-93/116

It has been established that PLM may miss small percentages of asbestos in bulk samples, thus negative PLM results cannot be guaranteed.

Client accepts visual estimate of asbestos content and waives EPA requirement to point count samples with asbestos content between trace and 10% asbestos.

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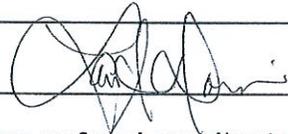
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Gibsonton, FL 33534 (813) 671-3999

POLARIZED LIGHT MICROSCOPY / BULK SAMPLE ANALYSIS

DATE: November 17, 2006  
CLIENT: City of Tampa  
PROJECT: Laurel Street Bridge  
DATE COLLECTED: November 15, 2006  
COLLECTED BY: Mike Witt  
ANALYST: Lara A. Davis  
PROJECT NUMBER: AD-25553  
SAMPLE ID.: 011 (11 of 49)  
LABORATORY NUMBER: 065560  
SAMPLE/LOCATION: Concrete patch (gray), from top - vertical,  
Homogeneous Area #6.  
  
SAMPLE DESCRIPTION: Gray, cementitious aggregate.

Asbestos Minerals	Estimated Percentage
Chrysotile	-
Amosite	-
Crocidolite	-
Anthophyllite	-
Tremolite/Actinolite	-
<b>Total Asbestos Content = None Detected</b>	
Cellulose	0
Fibrous Glass	0
Synthetic Fibers	0
Other	0
Nonfibrous	<u>100</u>
Total	100

Comments: No asbestos detected in any layer.

Respectfully submitted, 

The above test report relates only to the items tested. Analyses performed according to EPA's, Interim Method for the Determination of Asbestiform Minerals in Bulk Insulation Samples, EPA-600/R-93/116

It has been established that PLM may miss small percentages of asbestos in bulk samples, thus negative PLM results cannot be guaranteed.

Client accepts visual estimate of asbestos content and waives EPA requirement to point count samples with asbestos content between trace and 10% asbestos.

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POLARIZED LIGHT MICROSCOPY / BULK SAMPLE ANALYSIS

DATE: November 17, 2006  
CLIENT: City of Tampa  
PROJECT: Laurel Street Bridge  
DATE COLLECTED: November 15, 2006  
COLLECTED BY: Mike Witt  
ANALYST: Lara A. Davis  
PROJECT NUMBER: AD-25553  
SAMPLE ID.: 012 (12 of 49)  
LABORATORY NUMBER: 065561  
SAMPLE/LOCATION: Concrete patch (gray), from top - vertical,  
Homogeneous Area #6.  
SAMPLE DESCRIPTION: Gray, cementitious aggregate.

**Asbestos Minerals**

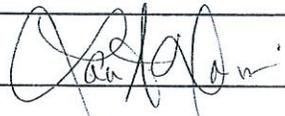
Estimated Percentage

Chrysotile	-
Amosite	-
Crocidolite	-
Anthophyllite	-
Tremolite/Actinolite	-

**Total Asbestos Content = None Detected**

Cellulose	0
Fibrous Glass	0
Synthetic Fibers	0
Other	0
Nonfibrous	<u>100</u>
Total	100

Comments: No asbestos detected in any layer.

Respectfully submitted, 

The above test report relates only to the items tested. Analyses performed according to EPA's, Interim Method for the Determination of Asbestiform Minerals in Bulk Insulation Samples, EPA-600/R-93/116

It has been established that PLM may miss small percentages of asbestos in bulk samples, thus negative PLM results cannot be guaranteed.

Client accepts visual estimate of asbestos content and waives EPA requirement to point count samples with asbestos content between trace and 10% asbestos.

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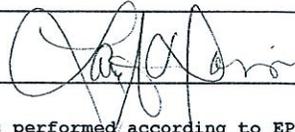
11553 U.S. Hwy 41 South  
Gibsonton, FL 33534 (813) 671-3999

POLARIZED LIGHT MICROSCOPY / BULK SAMPLE ANALYSIS

DATE: November 17, 2006  
CLIENT: City of Tampa  
PROJECT: Laurel Street Bridge  
DATE COLLECTED: November 15, 2006  
COLLECTED BY: Mike Witt  
ANALYST: Lara A. Davis  
PROJECT NUMBER: AD-25553  
SAMPLE ID.: 013 (13 of 49)  
LABORATORY NUMBER: 065562  
SAMPLE/LOCATION: Spacer material on structural support (beige),  
from counter balance - top, Homogeneous Area #7.  
SAMPLE DESCRIPTION: Beige particulate with off-white rock and fine  
gravel.

Asbestos Minerals	Estimated Percentage
Chrysotile	-
Amosite	-
Crocidolite	-
Anthophyllite	-
Tremolite/Actinolite	-
<b>Total Asbestos Content = None Detected</b>	
Cellulose	0
Fibrous Glass	0
Synthetic Fibers	0
Other	0
Nonfibrous	<u>100</u>
Total	100

Comments: No asbestos detected in any layer.

Respectfully submitted, 

The above test report relates only to the items tested. Analyses performed according to EPA's,  
Interim Method for the Determination of Asbestiform Minerals in Bulk Insulation Samples,  
EPA-600/R-93/116

It has been established that PLM may miss small percentages of asbestos in bulk samples,  
thus negative PLM results cannot be guaranteed.

Client accepts visual estimate of asbestos content and waives EPA requirement  
to point count samples with asbestos content between trace and 10% asbestos.

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or endorsement by NVLAP, NIST, or any agency of the federal government)

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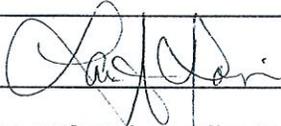
11553 U.S. Hwy 41 South  
Gibsonton, FL 33534 (813) 671-3999

POLARIZED LIGHT MICROSCOPY / BULK SAMPLE ANALYSIS

DATE: November 17, 2006  
 CLIENT: City of Tampa  
 PROJECT: Laurel Street Bridge  
 DATE COLLECTED: November 15, 2006  
 COLLECTED BY: Mike Witt  
 ANALYST: Lara A. Davis  
 PROJECT NUMBER: AD-25553  
 SAMPLE ID.: 014 (14 of 49)  
 LABORATORY NUMBER: 065563  
 SAMPLE/LOCATION: Spacer material on structural support (beige),  
 from counter balance - top, Homogeneous Area #7.  
 SAMPLE DESCRIPTION: Beige particulate with off-white rock and fine  
 gravel.

Asbestos Minerals	Estimated Percentage
Chrysotile	-
Amosite	-
Crocidolite	-
Anthophyllite	-
Tremolite/Actinolite	-
<b>Total Asbestos Content = None Detected</b>	
Cellulose	0
Fibrous Glass	0
Synthetic Fibers	0
Other	0
Nonfibrous	<u>100</u>
Total	100

Comments: No asbestos detected in any layer.

Respectfully submitted, 

The above test report relates only to the items tested. Analyses performed according to EPA's, Interim Method for the Determination of Asbestiform Minerals in Bulk Insulation Samples, EPA-600/R-93/116

It has been established that PLM may miss small percentages of asbestos in bulk samples, thus negative PLM results cannot be guaranteed.

Client accepts visual estimate of asbestos content and waives EPA requirement to point count samples with asbestos content between trace and 10% asbestos.

NVLAP ID #1871 (This report cannot be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government)

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11553 U.S. Hwy 41 South  
Gibsonton, FL 33534 (813) 671-3999

POLARIZED LIGHT MICROSCOPY / BULK SAMPLE ANALYSIS

DATE: November 17, 2006  
CLIENT: City of Tampa  
PROJECT: Laurel Street Bridge  
DATE COLLECTED: November 15, 2006  
COLLECTED BY: Mike Witt  
ANALYST: Lara A. Davis  
PROJECT NUMBER: AD-25553  
SAMPLE ID.: 015 (15 of 49)  
LABORATORY NUMBER: 065564  
SAMPLE/LOCATION: New gray paint from structural - top,  
Homogeneous Area #8.  
  
SAMPLE DESCRIPTION: Gray paint chips.

Asbestos Minerals	Estimated Percentage
Chrysotile	-
Amosite	-
Crocidolite	-
Anthophyllite	-
Tremolite/Actinolite	-
<b>Total Asbestos Content = None Detected</b>	
Cellulose	2
Fibrous Glass	0
Synthetic Fibers	0
Other	0
Nonfibrous	98
Total	100

Comments: No asbestos detected in any layer.

Respectfully submitted, 

The above test report relates only to the items tested. Analyses performed according to EPA's,  
Interim Method for the Determination of Asbestiform Minerals in Bulk Insulation Samples,  
EPA-600/R-93/116

It has been established that PLM may miss small percentages of asbestos in bulk samples,  
thus negative PLM results cannot be guaranteed.

Client accepts visual estimate of asbestos content and waives EPA requirement  
to point count samples with asbestos content between trace and 10% asbestos.

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Gibsonston, FL 33534 (813) 671-3999

POLARIZED LIGHT MICROSCOPY / BULK SAMPLE ANALYSIS

DATE: November 17, 2006  
CLIENT: City of Tampa  
PROJECT: Laurel Street Bridge  
DATE COLLECTED: November 15, 2006  
COLLECTED BY: Mike Witt  
ANALYST: Lara A. Davis  
PROJECT NUMBER: AD-25553  
SAMPLE ID.: 016 (16 of 49)  
LABORATORY NUMBER: 065565  
SAMPLE/LOCATION: New gray paint from structural - top,  
Homogeneous Area #8.

SAMPLE DESCRIPTION: Gray paint chips.

Asbestos Minerals	Estimated Percentage
Chrysotile	-
Amosite	-
Crocidolite	-
Anthophyllite	-
Tremolite/Actinolite	-
<b>Total Asbestos Content = None Detected</b>	
Cellulose	2
Fibrous Glass	0
Synthetic Fibers	0
Other	0
Nonfibrous	<u>98</u>
Total	100

Comments: No asbestos detected in any layer.

Respectfully submitted, \_\_\_\_\_



The above test report relates only to the items tested. Analyses performed according to EPA's, Interim Method for the Determination of Asbestiform Minerals in Bulk Insulation Samples, EPA-600/R-93/116

It has been established that PLM may miss small percentages of asbestos in bulk samples, thus negative PLM results cannot be guaranteed.

Client accepts visual estimate of asbestos content and waives EPA requirement to point count samples with asbestos content between trace and 10% asbestos.

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Gibsonton, FL 33534 (813) 671-3999

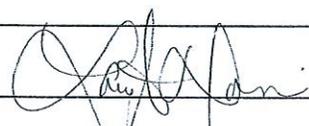
POLARIZED LIGHT MICROSCOPY / BULK SAMPLE ANALYSIS

DATE: November 17, 2006  
 CLIENT: City of Tampa  
 PROJECT: Laurel Street Bridge  
 DATE COLLECTED: November 15, 2006  
 COLLECTED BY: Mike Witt  
 ANALYST: Lara A. Davis  
 PROJECT NUMBER: AD-25553  
 SAMPLE ID.: 017 (17 of 49)  
 LABORATORY NUMBER: 065566  
 SAMPLE/LOCATION: Horizontal concrete column to bridge (silver/rust),  
 Homogeneous Area #9.

SAMPLE DESCRIPTION: Silver paint over rust coating over gray-beige  
 cementitious aggregate.

Asbestos Minerals	Estimated Percentage
Chrysotile	-
Amosite	-
Crocidolite	-
Anthophyllite	-
Tremolite/Actinolite	-
<b>Total Asbestos Content = None Detected</b>	
Cellulose	0
Fibrous Glass	0
Synthetic Fibers	0
Other	0
Nonfibrous	<u>100</u>
Total	100

Comments: No asbestos detected in any layer.

Respectfully submitted, 

The above test report relates only to the items tested. Analyses performed according to EPA's,  
Interim Method for the Determination of Asbestiform Minerals in Bulk Insulation Samples,  
EPA-600/R-93/116

It has been established that PLM may miss small percentages of asbestos in bulk samples,  
thus negative PLM results cannot be guaranteed.

Client accepts visual estimate of asbestos content and waives EPA requirement  
to point count samples with asbestos content between trace and 10% asbestos.

NVLAP ID #1871 (This report cannot be used to claim product certification, approval,  
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POLARIZED LIGHT MICROSCOPY / BULK SAMPLE ANALYSIS

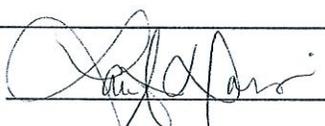
DATE: November 17, 2006  
CLIENT: City of Tampa  
PROJECT: Laurel Street Bridge  
DATE COLLECTED: November 15, 2006  
COLLECTED BY: Mike Witt  
ANALYST: Lara A. Davis  
PROJECT NUMBER: AD-25553  
SAMPLE ID.: 018 (18 of 49)  
LABORATORY NUMBER: 065567  
SAMPLE/LOCATION: Horizontal concrete column to bridge (silver/rust),  
Homogeneous Area #9.  
SAMPLE DESCRIPTION: Silver paint over rust coating over gray-beige  
cementitious aggregate.

**Asbestos Minerals**

Estimated Percentage

Chrysotile	-
Amosite	-
Crocidolite	-
Anthophyllite	-
Tremolite/Actinolite	-
<b>Total Asbestos Content = None Detected</b>	
Cellulose	0
Fibrous Glass	0
Synthetic Fibers	0
Other	0
Nonfibrous	<u>100</u>
Total	100

Comments: No asbestos detected in any layer.

Respectfully submitted, 

The above test report relates only to the items tested. Analyses performed according to EPA's,  
Interim Method for the Determination of Asbestiform Minerals in Bulk Insulation Samples,  
EPA-600/R-93/116

It has been established that PLM may miss small percentages of asbestos in bulk samples,  
thus negative PLM results cannot be guaranteed.

Client accepts visual estimate of asbestos content and waives EPA requirement  
to point count samples with asbestos content between trace and 10% asbestos.

NVLAP ID #1871 (This report cannot be used to claim product certification, approval,  
or endorsement by NVLAP, NIST, or any agency of the federal government)

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APOLLO ENVIRONMENTAL, INC.

11553 U.S. Hwy 41 South  
Gibsonton, FL 33534 (813) 671-3999

POLARIZED LIGHT MICROSCOPY / BULK SAMPLE ANALYSIS

DATE: November 17, 2006  
CLIENT: City of Tampa  
PROJECT: Laurel Street Bridge  
DATE COLLECTED: November 15, 2006  
COLLECTED BY: Mike Witt  
ANALYST: Lara A. Davis  
PROJECT NUMBER: AD-25553  
SAMPLE ID.: 019 (19 of 49)  
LABORATORY NUMBER: 065568  
SAMPLE/LOCATION: Horizontal concrete column to steel beam (silver/rust), Homogeneous Area #10.

SAMPLE DESCRIPTION: Silver paint over rust debris.

Asbestos Minerals	Estimated Percentage
Chrysotile	-
Amosite	-
Crocidolite	-
Anthophyllite	-
Tremolite/Actinolite	-
<b>Total Asbestos Content = None Detected</b>	
Cellulose	0
Fibrous Glass	0
Synthetic Fibers	0
Other	0
Nonfibrous	<u>100</u>
Total	100

Comments: No asbestos detected in any layer.

Respectfully submitted, 

The above test report relates only to the items tested. Analyses performed according to EPA's, Interim Method for the Determination of Asbestiform Minerals in Bulk Insulation Samples, EPA-600/R-93/116

It has been established that PLM may miss small percentages of asbestos in bulk samples, thus negative PLM results cannot be guaranteed.

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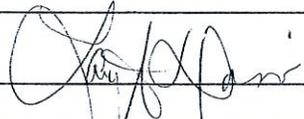
POLARIZED LIGHT MICROSCOPY / BULK SAMPLE ANALYSIS

DATE: November 17, 2006  
CLIENT: City of Tampa  
PROJECT: Laurel Street Bridge  
DATE COLLECTED: November 15, 2006  
COLLECTED BY: Mike Witt  
ANALYST: Lara A. Davis  
PROJECT NUMBER: AD-25553  
SAMPLE ID.: 020 (20 of 49)  
LABORATORY NUMBER: 065569  
SAMPLE/LOCATION: Horizontal concrete column to steel beam (silver/rust), Homogeneous Area #10.

SAMPLE DESCRIPTION: Silver paint over rust debris.

Asbestos Minerals	Estimated Percentage
Chrysotile	-
Amosite	-
Crocidolite	-
Anthophyllite	-
Tremolite/Actinolite	-
<b>Total Asbestos Content = None Detected</b>	
Cellulose	0
Fibrous Glass	0
Synthetic Fibers	0
Other	0
Nonfibrous	<u>100</u>
Total	100

Comments: No asbestos detected in any layer.

Respectfully submitted, 

The above test report relates only to the items tested. Analyses performed according to EPA's, Interim Method for the Determination of Asbestiform Minerals in Bulk Insulation Samples, EPA-600/R-93/116

It has been established that PLM may miss small percentages of asbestos in bulk samples, thus negative PLM results cannot be guaranteed.

Client accepts visual estimate of asbestos content and waives EPA requirement to point count samples with asbestos content between trace and 10% asbestos.

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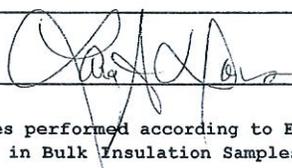
POLARIZED LIGHT MICROSCOPY / BULK SAMPLE ANALYSIS

DATE: November 17, 2006  
CLIENT: City of Tampa  
PROJECT: Laurel Street Bridge  
DATE COLLECTED: November 15, 2006  
COLLECTED BY: Mike Witt  
ANALYST: Lara A. Davis  
PROJECT NUMBER: AD-25553  
SAMPLE ID.: 021 (21 of 49)  
LABORATORY NUMBER: 065570  
SAMPLE/LOCATION: Interior wall concrete coating (gray-beige),  
Homogeneous Area #11.

SAMPLE DESCRIPTION: Gray-beige cementitious aggregate.

Asbestos Minerals	Estimated Percentage
Chrysotile	-
Amosite	-
Crocidolite	-
Anthophyllite	-
Tremolite/Actinolite	-
<b>Total Asbestos Content = None Detected</b>	
Cellulose	0
Fibrous Glass	0
Synthetic Fibers	0
Other	0
Nonfibrous	<u>100</u>
Total	100

Comments: No asbestos detected in any layer.

Respectfully submitted, 

The above test report relates only to the items tested. Analyses performed according to EPA's,  
Interim Method for the Determination of Asbestiform Minerals in Bulk Insulation Samples,  
EPA-600/R-93/116

It has been established that PLM may miss small percentages of asbestos in bulk samples,  
thus negative PLM results cannot be guaranteed.

Client accepts visual estimate of asbestos content and waives EPA requirement  
to point count samples with asbestos content between trace and 10% asbestos.

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POLARIZED LIGHT MICROSCOPY / BULK SAMPLE ANALYSIS

DATE: November 17, 2006  
CLIENT: City of Tampa  
PROJECT: Laurel Street Bridge  
DATE COLLECTED: November 15, 2006  
COLLECTED BY: Mike Witt  
ANALYST: Lara A. Davis  
PROJECT NUMBER: AD-25553  
SAMPLE ID.: 022 (22 of 49)  
LABORATORY NUMBER: 065571  
SAMPLE/LOCATION: Interior wall concrete coating (gray-beige),  
Homogeneous Area #11.  
  
SAMPLE DESCRIPTION: Gray-beige cementitious aggregate.

Asbestos Minerals	Estimated Percentage
Chrysotile	-
Amosite	-
Crocidolite	-
Anthophyllite	-
Tremolite/Actinolite	-
<b>Total Asbestos Content = None Detected</b>	
Cellulose	0
Fibrous Glass	0
Synthetic Fibers	0
Other	0
Nonfibrous	<u>100</u>
Total	100

Comments: No asbestos detected in any layer.

Respectfully submitted, 

The above test report relates only to the items tested. Analyses performed according to EPA's, Interim Method for the Determination of Asbestiform Minerals in Bulk Insulation Samples, EPA-600/R-93/116

It has been established that PLM may miss small percentages of asbestos in bulk samples, thus negative PLM results cannot be guaranteed.

Client accepts visual estimate of asbestos content and waives EPA requirement to point count samples with asbestos content between trace and 10% asbestos.

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