

Engineering Solution Firm
PMB 332 PO Box 4960
Caguas, PR, 00726

ASBESTOS-CONTAINING MATERIALS AND LEAD-BASED PAINT SURVEY

PR-2 km 153.90 Int. PR-2R
Mayagüez, PR
AC-200241 Project

July 13, 2017
Prepared for: Autoridad de Carreteras e Ing. Edgar Robles
Prepared by: Edwin A. Ayala, PE

Introduction

Engineering Solution Firm Corp. is pleased to submit to your attention the result of the Asbestos and Lead Based Paint Survey performed at Road PR-2 km Int. PR-2R, Mayagüez.

The location maps and photographic log are shown in appendix A.

The purpose of the survey was to determine the presence of ACM and/or LBP in the structure based on the requirements described in the Guidelines for the Evaluation and Control of Lead Based Paint in Housing, H.U.D. Chapter 7, 1997 revision - 40 CFR 61 and considering the 40 CFR 763E (as reference only) for Asbestos.

This survey was by conducted by engineer Edwin A. Ayala, and Angel Ortega on **July 13, 2017** They are Environmental Quality Board Asbestos and Lead based Paint Inspector, copies of his credentials are included in appendix B.

Lead Based Paint Surveying

Hazard of lead in paint has been defined by the Department of Housing and Urban Development as 1.0 mg/cm² as measured by XRF instrument or Atomic Absorption Spectroscopy (AAS) or 0.5% by weight or 5,000 ppm as measured by AAS or Inductive Coupled Plasma (ICP). The same level was adopted by EPA regulations published in 1992, under Title X. The following guidelines were used to perform LBP testing:

1. Perform inventory of all testing combinations
2. Select painted area to be tested
3. Perform XRF testing (including calibration checks).
4. Review and evaluate the result
5. Report results

Lead Based Paint Inspection Guidelines used during the survey is detailed in the Appendix C.

Lead Based Paint Results

A total of fifty nine (59) testing combinations were tested using NITON 300XLp Series X-Ray Fluorescence instrument (XRF) manufactured by NITON Corporation. Using EPA Method 6200, the XRF instrument was set at Standard Paint Mode showing reading "Positive" or "Negative" with a 95% confidence level reading. Results are presented in mg/cm².

The XRF results are shown in Appendix D. Lead Based Paint was found in some yellow floor traffic lines, concrete curbs and, pole bases. Table 1 summarizes the positive XRF results. Lead based Paint photo log is shown in the Appendix E.

Table 1 : Lead Based Paint Summary

READING NO	COMPONENT	SUBSTRATE	SIDE	CONDITION	COLOR	FLOOR	ROOM	RESULTS	AREA
348	FLOOR LINE	ASPHALT	A	FAIR	YELLOW	FIRST	WEST BOUND TO MAYAGUEZ	POSITIVE	FLOOR LINES = 7,500 LN FT CONCRETE CURBS = 700 LN FT POLE BASES = 23 UNITS
349	FLOOR LINE	ASPHALT	A	FAIR	YELLOW	FIRST	WEST BOUND TO MAYAGUEZ	POSITIVE	
354	FLOOR LINE	ASPHALT	A	FAIR	YELLOW	FIRST	WEST BOUND TO MAYAGUEZ	POSITIVE	
357	POST BASE	CONCRETE	A	FAIR	YELLOW	FIRST	WEST BOUND TO MAYAGUEZ	POSITIVE	
358	FLOOR LINE	ASPHALT	A	FAIR	YELLOW	FIRST	WEST BOUND TO MAYAGUEZ	POSITIVE	
363	CURB	CONCRETE	A	FAIR	YELLOW	FIRST	WEST BOUND TO MAYAGUEZ	POSITIVE	
364	CURB	CONCRETE	A	FAIR	YELLOW	FIRST	WEST BOUND TO MAYAGUEZ	POSITIVE	
371	POST BASE	ASPHALT	A	FAIR	YELLOW	FIRST	WEST BOUND TO MAYAGUEZ	POSITIVE	
373	FLOOR TILE	ASPHALT	A	FAIR	YELLOW	FIRST	WEST BOUND TO MAYAGUEZ	POSITIVE	
376	POST BASE	CONCRETE	A	FAIR	YELLOW	FIRST	WEST BOUND TO MAYAGUEZ	POSITIVE	
378	FLOOR LINE	ASPHALT	A	FAIR	YELLOW	FIRST	WEST BOUND TO MAYAGUEZ	POSITIVE	
381	CURB	CONCRETE	A	FAIR	YELLOW	FIRST	WEST BOUND TO MAYAGUEZ	POSITIVE	
382	BARRICADE	CONCRETE	A	FAIR	YELLOW	FIRST	WEST BOUND TO MAYAGUEZ	POSITIVE	
383	POST BASE	METAL	A	FAIR	YELLOW	FIRST	WEST BOUND TO MAYAGUEZ	POSITIVE	
384	POST BASE	METAL	A	FAIR	YELLOW	FIRST	WEST BOUND TO MAYAGUEZ	POSITIVE	
385	POST BASE	METAL	A	FAIR	YELLOW	FIRST	WEST BOUND TO MAYAGUEZ	POSITIVE	
386	POST BASE	METAL	A	FAIR	YELLOW	FIRST	WEST BOUND TO MAYAGUEZ	POSITIVE	
388	FLOOR LINE	ASPHALT	A	FAIR	YELLOW	FIRST	WEST BOUND TO MAYAGUEZ	POSITIVE	
392	CURB	CONCRETE	A	FAIR	YELLOW	FIRST	WEST BOUND TO MAYAGUEZ	POSITIVE	
393	POST BASE	CONCRETE	A	FAIR	YELLOW	FIRST	WEST BOUND TO MAYAGUEZ	POSITIVE	
394	FLOOR LINE	ASPHALT	A	FAIR	YELLOW	FIRST	EAST BOUND TO AGUADILLA	POSITIVE	
395	FLOOR LINE	ASPHALT	A	FAIR	YELLOW	FIRST	EAST BOUND TO AGUADILLA	POSITIVE	

LBP Total Area = 7,500 lineal ft yellow traffic lines, 700 lineal ft concrete curbs, and 23 pole bases. The LBP area must be verified by the contractors.

Asbestos Containing Material Survey

Asbestos-containing material (ACM) is defined as any material or product which contains more than 1 percent asbestos. The sample test must be performed by a laboratory which has received interim accreditation for polarized light microscopy (PLM) analysis under the EPA Interim Asbestos Bulk Sample Analysis Quality Assurance Program.

The survey was conducted considering (as reference only) the most recent protocol for assessing asbestos containing materials (40 CFR 763E) which is detailed in the Appendix F.

The ACM inspection consisted of the following general tasks:

1. Preliminary inspection, which included a review of existing building specifications, floor plan sketches, and other available documentation if any.
2. Visual inspection of Suspected Asbestos Containing Material (SACM) throughout the structure,
3. One sample of any SACM (It is not established by 40 CFR 763E) by must be taken and PLM laboratory analysis,
4. Measurement and quantification of SACM,
5. Report results.

Asbestos Containing Material Result

ESF personnel did not find any material suspected to contain asbestos fibers during the inspections. No SACM samples were collected; therefore Asbestos Containing Material was not detected in the structures. Non Presence Asbestos Certification is included in the Appendix G

Please do not hesitate to contact us, if you have any questions or comments regarding the results of this particular Asbestos-Containing Materials and Lead-Based Paint Survey.

Cordially;



Edwin A. Ayala, PE



Angel O. Ortega

**APPENDIX A
LOCATION MAP**



AERIAL IMAGERY

SCALE 1 : 15,000

Appendix A: Location Map and Photo



PR-2

APPENDIX B
INSPECTOR CREDENTIALS

Proyecto de Certificación y Permisos de Pintura con Base de Plomo

Esta tarjeta autoriza a:

Angel O. Ortega Coreano
Inspector

a trabajar en la remoción de Pintura con Base de Plomo. Esta persona NO es empleado, ni representante de la Junta.

1217-0417-LI-007
 Núm. Certificado

May-06-2018
 Fecha de expiración

[Firma Autorizada]
 Firma Autorizada
 Junta de Calidad Ambiental

TARJETA DE REGISTRO PARA LA REMOCION DE ASBESTO

Esta tarjeta autoriza a:

Ángel O. Ortega Coreano
Inspector

A trabajar en la categoría indicada. Esta persona NO es un empleado, ni un representante de la Junta

ASB-0217-0040-SI
 Número de Registro

9-feb-2018
 Fecha de vencimiento

[Firma Autorizada]
 Firma Autorizada
 Junta de Calidad Ambiental

TARJETA DE REGISTRO
PARA LA REMOCION DE ASBESTO

Esta tarjeta autoriza a:

Edwin Ayala Ramírez

Inspector

A trabajar en la categoría indicada.
Esta persona NO es un empleado, ni un representante de la Junta



ASB-0317-0077-SI
Número de Registro
20-feb-2018
Fecha de vencimiento



Firma Autorizada
Junta de Calidad Ambiental


Proyecto de Certificación y Permisos de Pintura
con Base de Plomo

Esta tarjeta autoriza a:


Edwin A. Ayala Ramírez

Inspector

a trabajar en la remoción de Pintura con Base de Plomo. Esta persona NO es empleado, ni representante de la Junta.



5210-0117-LI-010
Núm. Certificado
Nov-19-2017
Fecha de expiración



Firma Autorizada
Junta de Calidad Ambiental

APPENDIX C
LEAD BASED PAINT INSPECTION GUIDELINES
(Available Upon Request)

APPENDIX D
XRF RESULTS

Index	Reading	Time	Component	Substrate	Side	Condition	Color	Site	Inspector	Floor	Room	Results	PbC	PbL	PbK
1	341	2017-07-13 09:30											3.44 ± 0.00	0.46 ± 0.00	0.02 ± 0.00
2	342	2017-07-13 09:37			CALIBRATE			PR-2 MAYAGUEZ ROAD	ANGEL ORTEGA			Negative	0.90 ± 0.10	0.90 ± 0.10	<LOD: 0.93
3	343	2017-07-13 09:37			CALIBRATE			PR-2 MAYAGUEZ ROAD	ANGEL ORTEGA			Negative	0.80 ± 0.20	0.80 ± 0.20	<LOD: 1.60
4	344	2017-07-13 09:37			CALIBRATE			PR-2 MAYAGUEZ ROAD	ANGEL ORTEGA			Negative	0.90 ± 0.10	0.90 ± 0.10	<LOD: 0.97
5	345	2017-07-13 09:40	FLOOR LINE	ASPHALT	A	FAIR	WHITE	PR-2 MAYAGUEZ ROAD	ANGEL ORTEGA	FIRST	WEST BOUND TO MAYAGUEZ	Negative	<LOD: 0.03	<LOD: 0.03	<LOD: 2.01
6	346	2017-07-13 09:42	FLOOR LINE	ASPHALT	A	FAIR	WHITE	PR-2 MAYAGUEZ ROAD	ANGEL ORTEGA	FIRST	WEST BOUND TO MAYAGUEZ	Negative	<LOD: 0.03	<LOD: 0.03	<LOD: 1.95
7	347	2017-07-13 09:42	FLOOR LINE	ASPHALT	A	FAIR	YELLOW	PR-2 MAYAGUEZ ROAD	ANGEL ORTEGA	FIRST	WEST BOUND TO MAYAGUEZ	Negative	0.80 ± 0.10	0.80 ± 0.10	<LOD: 1.05
8	348	2017-07-13 09:43	FLOOR LINE	ASPHALT	A	FAIR	YELLOW	PR-2 MAYAGUEZ ROAD	ANGEL ORTEGA	FIRST	WEST BOUND TO MAYAGUEZ	Positive	2.30 ± 1.20	0.70 ± 0.10	2.30 ± 1.20
9	349	2017-07-13 09:46	FLOOR LINE	ASPHALT	A	FAIR	YELLOW	PR-2 MAYAGUEZ ROAD	ANGEL ORTEGA	FIRST	WEST BOUND TO MAYAGUEZ	Positive	2.90 ± 1.70	0.60 ± 0.30	2.90 ± 1.70
10	350	2017-07-13 09:48	CURB	CONCRETE	A	FAIR	YELLOW	PR-2 MAYAGUEZ ROAD	ANGEL ORTEGA	FIRST	WEST BOUND TO MAYAGUEZ	Negative	<LOD: 0.03	<LOD: 0.03	<LOD: 4.10
11	351	2017-07-13 09:48	FLOOR	CONCRETE	A	FAIR	YELLOW	PR-2 MAYAGUEZ ROAD	ANGEL ORTEGA	FIRST	WEST BOUND TO MAYAGUEZ	Negative	<LOD: 0.03	<LOD: 0.03	<LOD: 2.40
12	352	2017-07-13 09:49	FLOOR	ASPHALT	A	FAIR	WHITE	PR-2 MAYAGUEZ ROAD	ANGEL ORTEGA	FIRST	WEST BOUND TO MAYAGUEZ	Negative	<LOD: 0.03	<LOD: 0.03	<LOD: 1.99
13	353	2017-07-13 09:50	FLOOR LINE	ASPHALT	A	FAIR	WHITE	PR-2 MAYAGUEZ ROAD	ANGEL ORTEGA	FIRST	WEST BOUND TO MAYAGUEZ	Negative	<LOD: 0.03	<LOD: 0.03	<LOD: 3.85
14	354	2017-07-13 09:50	FLOOR LINE	ASPHALT	A	FAIR	YELLOW	PR-2 MAYAGUEZ ROAD	ANGEL ORTEGA	FIRST	WEST BOUND TO MAYAGUEZ	Positive	2.50 ± 1.50	0.70 ± 0.20	2.50 ± 1.50
15	355	2017-07-13 09:53	CURB	CONCRETE	A	FAIR	YELLOW	PR-2 MAYAGUEZ ROAD	ANGEL ORTEGA	FIRST	WEST BOUND TO MAYAGUEZ	Negative	<LOD: 0.09	<LOD: 0.09	<LOD: 1.89
16	356	2017-07-13 09:53	CURB	CONCRETE	A	FAIR	YELLOW	PR-2 MAYAGUEZ ROAD	ANGEL ORTEGA	FIRST	WEST BOUND TO MAYAGUEZ	Negative	<LOD: 0.03	<LOD: 0.03	<LOD: 1.96
17	357	2017-07-13 09:54	POST BASE	CONCRETE	A	FAIR	YELLOW	PR-2 MAYAGUEZ ROAD	ANGEL ORTEGA	FIRST	WEST BOUND TO MAYAGUEZ	Positive	1.70 ± 0.70	1.70 ± 0.70	<LOD: 2.25
18	358	2017-07-13 09:57	FLOOR LINE	ASPHALT	A	FAIR	YELLOW	PR-2 MAYAGUEZ ROAD	ANGEL ORTEGA	FIRST	WEST BOUND TO MAYAGUEZ	Positive	2.40 ± 1.40	0.60 ± 0.10	2.40 ± 1.40
19	359	2017-07-13 10:01	FLOOR LINE	ASPHALT	A	FAIR	YELLOW	PR-2 MAYAGUEZ ROAD	ANGEL ORTEGA	FIRST	WEST BOUND TO MAYAGUEZ	Negative	<LOD: 0.03	<LOD: 0.03	<LOD: 1.90
20	360	2017-07-13 10:02	FLOOR LINE	ASPHALT	A	FAIR	YELLOW	PR-2 MAYAGUEZ ROAD	ANGEL ORTEGA	FIRST	WEST BOUND TO MAYAGUEZ	Negative	<LOD: 0.03	<LOD: 0.03	<LOD: 2.88
21	361	2017-07-13 10:02	FLOOR LINE	ASPHALT	A	FAIR	YELLOW	PR-2 MAYAGUEZ ROAD	ANGEL ORTEGA	FIRST	WEST BOUND TO MAYAGUEZ	Negative	<LOD: 0.03	<LOD: 0.03	<LOD: 1.87
22	362	2017-07-13 10:02	CURB	CONCRETE	A	FAIR	YELLOW	PR-2 MAYAGUEZ ROAD	ANGEL ORTEGA	FIRST	WEST BOUND TO MAYAGUEZ	Negative	<LOD: 0.03	<LOD: 0.03	<LOD: 3.17
23	363	2017-07-13 10:03	CURB	CONCRETE	A	FAIR	YELLOW	PR-2 MAYAGUEZ ROAD	ANGEL ORTEGA	FIRST	WEST BOUND TO MAYAGUEZ	Positive	<LOD: 5.25	0.50 ± 0.30	<LOD: 5.25
24	364	2017-07-13 10:04	CURB	CONCRETE	A	FAIR	YELLOW	PR-2 MAYAGUEZ ROAD	ANGEL ORTEGA	FIRST	WEST BOUND TO MAYAGUEZ	Positive	3.00 ± 1.70	0.90 ± 0.30	3.00 ± 1.70
25	365	2017-07-13 10:06	CURB	CONCRETE	A	FAIR	YELLOW	PR-2 MAYAGUEZ ROAD	ANGEL ORTEGA	FIRST	WEST BOUND TO MAYAGUEZ	Negative	<LOD: 0.03	<LOD: 0.03	<LOD: 1.89
26	366	2017-07-13 10:07	CURB	CONCRETE	A	FAIR	YELLOW	PR-2 MAYAGUEZ ROAD	ANGEL ORTEGA	FIRST	WEST BOUND TO MAYAGUEZ	Negative	<LOD: 0.03	<LOD: 0.03	<LOD: 1.86
27	367	2017-07-13 10:07	POST BASE	CONCRETE	A	FAIR	YELLOW	PR-2 MAYAGUEZ ROAD	ANGEL ORTEGA	FIRST	WEST BOUND TO MAYAGUEZ	Negative	<LOD: 0.03	<LOD: 0.03	<LOD: 3.51
28	368	2017-07-13 10:09	POST BASE	CONCRETE	A	FAIR	YELLOW	PR-2 MAYAGUEZ ROAD	ANGEL ORTEGA	FIRST	WEST BOUND TO MAYAGUEZ	Negative	0.80 ± 0.30	0.50 ± 0.10	0.80 ± 0.30
29	369	2017-07-13 10:10	CURB	CONCRETE	A	FAIR	YELLOW	PR-2 MAYAGUEZ ROAD	ANGEL ORTEGA	FIRST	WEST BOUND TO MAYAGUEZ	Negative	<LOD: 0.03	<LOD: 0.03	<LOD: 1.96
30	370	2017-07-13 10:10	FLOOR LINE	ASPHALT	A	FAIR	YELLOW	PR-2 MAYAGUEZ ROAD	ANGEL ORTEGA	FIRST	WEST BOUND TO MAYAGUEZ	Negative	<LOD: 0.03	<LOD: 0.03	<LOD: 1.92
31	371	2017-07-13 10:13	POST BASE	ASPHALT	A	FAIR	YELLOW	PR-2 MAYAGUEZ ROAD	ANGEL ORTEGA	FIRST	WEST BOUND TO MAYAGUEZ	Positive	1.20 ± 0.30	1.30 ± 0.10	1.20 ± 0.30
32	372	2017-07-13 10:13	CURB	CONCRETE	A	FAIR	YELLOW	PR-2 MAYAGUEZ ROAD	ANGEL ORTEGA	FIRST	WEST BOUND TO MAYAGUEZ	Negative	<LOD: 0.03	<LOD: 0.03	<LOD: 1.87
33	373	2017-07-13 10:14	FLOOR TILE	ASPHALT	A	FAIR	YELLOW	PR-2 MAYAGUEZ ROAD	ANGEL ORTEGA	FIRST	WEST BOUND TO MAYAGUEZ	Positive	1.60 ± 0.60	0.66 ± 0.03	1.60 ± 0.60
34	374	2017-07-13 10:15	FLOOR	CONCRETE	A	FAIR	YELLOW	PR-2 MAYAGUEZ ROAD	ANGEL ORTEGA	FIRST	WEST BOUND TO MAYAGUEZ	Negative	<LOD: 0.03	<LOD: 0.03	<LOD: 1.90



NITON Corporation
900 Middlesex Turnpike
Billerica, MA 01821

Index	Reading N°	Time	Component	Substrate	Side	Condition	Color	Site	Inspector	Floor	Room	Results	PbC	PbL	PbK
35	375	2017-07-13 10:16	POST BASE	CONCRETE	A	FAIR	YELLOW	PR-2 MAYAGUEZ ROAD	ANGEL ORTEGA	FIRST	WEST BOUND TO MAYAGUEZ	Negative	<LOD : 0.03	<LOD : 0.03	<LOD : 3.17
36	376	2017-07-13 10:16	POST BASE	CONCRETE	A	FAIR	YELLOW	PR-2 MAYAGUEZ ROAD	ANGEL ORTEGA	FIRST	WEST BOUND TO MAYAGUEZ	Positive	1.60 ± 0.50	1.60 ± 0.50	2.20 ± 1.40
37	377	2017-07-13 10:17	FLOOR LINE	ASPHALT	A	FAIR	WHITE	PR-2 MAYAGUEZ ROAD	ANGEL ORTEGA	FIRST	WEST BOUND TO MAYAGUEZ	Negative	<LOD : 0.03	<LOD : 0.03	<LOD : 3.47
38	378	2017-07-13 10:18	FLOOR LINE	ASPHALT	A	FAIR	YELLOW	PR-2 MAYAGUEZ ROAD	ANGEL ORTEGA	FIRST	WEST BOUND TO MAYAGUEZ	Positive	<LOD : 4.65	<LOD : 1.05	<LOD : 4.65
39	379	2017-07-13 10:18	CURB	CONCRETE	A	FAIR	YELLOW	PR-2 MAYAGUEZ ROAD	ANGEL ORTEGA	FIRST	WEST BOUND TO MAYAGUEZ	Negative	<LOD : 0.03	<LOD : 0.03	<LOD : 2.05
40	380	2017-07-13 10:27	BARRICADE	CONCRETE	A	FAIR	YELLOW	PR-2 MAYAGUEZ ROAD	ANGEL ORTEGA	FIRST	WEST BOUND TO MAYAGUEZ	Negative	0.80 ± 0.10	0.80 ± 0.10	0.90 ± 0.50
41	381	2017-07-13 10:29	CURB	CONCRETE	A	FAIR	YELLOW	PR-2 MAYAGUEZ ROAD	ANGEL ORTEGA	FIRST	WEST BOUND TO MAYAGUEZ	Positive	<LOD : 6.15	<LOD : 6.15	<LOD : 36.15
42	382	2017-07-13 10:30	BARRICADE	CONCRETE	A	FAIR	YELLOW	PR-2 MAYAGUEZ ROAD	ANGEL ORTEGA	FIRST	WEST BOUND TO MAYAGUEZ	Positive	<LOD : 6.75	<LOD : 6.75	<LOD : 28.80
43	383	2017-07-13 10:30	POST BASE	METAL	A	FAIR	YELLOW	PR-2 MAYAGUEZ ROAD	ANGEL ORTEGA	FIRST	WEST BOUND TO MAYAGUEZ	Positive	1.80 ± 0.60	1.80 ± 0.60	<LOD : 6.00
44	384	2017-07-13 10:35	POST BASE	METAL	A	FAIR	YELLOW	PR-2 MAYAGUEZ ROAD	ANGEL ORTEGA	FIRST	WEST BOUND TO MAYAGUEZ	Positive	2.20 ± 0.90	2.20 ± 0.90	<LOD : 6.15
45	385	2017-07-13 10:35	POST BASE	METAL	A	FAIR	YELLOW	PR-2 MAYAGUEZ ROAD	ANGEL ORTEGA	FIRST	WEST BOUND TO MAYAGUEZ	Positive	<LOD : 3.90	<LOD : 3.90	<LOD : 13.20
46	386	2017-07-13 10:35	POST BASE	METAL	A	FAIR	YELLOW	PR-2 MAYAGUEZ ROAD	ANGEL ORTEGA	FIRST	WEST BOUND TO MAYAGUEZ	Positive	3.20 ± 1.80	3.20 ± 1.80	<LOD : 9.60
47	387	2017-07-13 10:37	FLOOR LINE	ASPHALT	A	FAIR	YELLOW	PR-2 MAYAGUEZ ROAD	ANGEL ORTEGA	FIRST	WEST BOUND TO MAYAGUEZ	Negative	<LOD : 0.03	<LOD : 0.03	<LOD : 1.96
48	388	2017-07-13 10:38	FLOOR LINE	ASPHALT	A	FAIR	YELLOW	PR-2 MAYAGUEZ ROAD	ANGEL ORTEGA	FIRST	WEST BOUND TO MAYAGUEZ	Positive	3.00 ± 1.60	0.80 ± 0.30	3.00 ± 1.60
49	389	2017-07-13 10:41	FLOOR	CONCRETE	A	FAIR	YELLOW	PR-2 MAYAGUEZ ROAD	ANGEL ORTEGA	FIRST	WEST BOUND TO MAYAGUEZ	Negative	0.50 ± 0.20	0.50 ± 0.20	<LOD : 3.60
50	390	2017-07-13 10:42	POST BASE	CONCRETE	A	FAIR	YELLOW	PR-2 MAYAGUEZ ROAD	ANGEL ORTEGA	FIRST	WEST BOUND TO MAYAGUEZ	Negative	<LOD : 0.09	<LOD : 0.09	<LOD : 2.01
51	391	2017-07-13 10:42	POST BASE	CONCRETE	A	FAIR	YELLOW	PR-2 MAYAGUEZ ROAD	ANGEL ORTEGA	FIRST	WEST BOUND TO MAYAGUEZ	Negative	<LOD : 0.03	<LOD : 0.03	<LOD : 4.27
52	392	2017-07-13 10:50	CURB	CONCRETE	A	FAIR	YELLOW	PR-2 MAYAGUEZ ROAD	ANGEL ORTEGA	FIRST	WEST BOUND TO MAYAGUEZ	Positive	2.10 ± 1.00	2.10 ± 1.00	<LOD : 10.35
53	393	2017-07-13 10:51	POST BASE	CONCRETE	A	FAIR	YELLOW	PR-2 MAYAGUEZ ROAD	ANGEL ORTEGA	FIRST	WEST BOUND TO MAYAGUEZ	Positive	2.40 ± 1.30	1.40 ± 0.60	2.40 ± 1.30
54	394	2017-07-13 11:01	FLOOR LINE	ASPHALT	A	FAIR	YELLOW	PR-2 MAYAGUEZ ROAD	ANGEL ORTEGA	FIRST	EAST BOUND TO AGUADILLA	Positive	2.80 ± 1.60	<LOD : 0.03	2.80 ± 1.60
55	395	2017-07-13 11:04	FLOOR LINE	ASPHALT	A	FAIR	YELLOW	PR-2 MAYAGUEZ ROAD	ANGEL ORTEGA	FIRST	EAST BOUND TO AGUADILLA	Positive	2.70 ± 1.70	0.40 ± 0.20	2.70 ± 1.70
56	396	2017-07-13 11:16			CALIBRATE			PR-2 MAYAGUEZ ROAD	ANGEL ORTEGA			Negative	0.90 ± 0.10	0.90 ± 0.10	<LOD : 1.11
57	397	2017-07-13 11:17			CALIBRATE			PR-2 MAYAGUEZ ROAD	ANGEL ORTEGA			Negative	0.90 ± 0.10	0.90 ± 0.10	<LOD : 1.13
58	398	2017-07-13 11:17			CALIBRATE			PR-2 MAYAGUEZ ROAD	ANGEL ORTEGA			Negative	0.90 ± 0.10	0.90 ± 0.10	<LOD : 1.03

APPENDIX E
LEAD BASED PAINT PHOTO LOG



348



349



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357



358



363, 364, and 371



373



376



378



381



382



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392



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APPENDIX F
ASBESTOS CONTAINED MATERIAL INSPECTION (40 CFR 763 E)
(Available Upon Request)

APPENDIX G
ASBESTOS CERTIFICATION



**CERTIFICACION DE NO PRESENCIA DE ASBESTO
EN ESTRUCTURAS A DEMOLERSE**
(Deberá completarse en letra de molde o impresa)

PGC-_____
PARA USO OFICIAL

Yo, Edwin A. Ayala , mayor de edad, _casado, y vecino de Caguas
(Nombre) (Estado Civil) (Municipio)

Dirección Postal PMB 332 PO Box 4960, Caguas, PR, 00726
(Pueblo) (Zip Code)

Teléfonos: Residencial (787) 691-4440 Oficina (____) _____ - _____ Ext. _____
Fax (787) 903-5128

Certifico que:

Las estructura de la Carretera PR-2 km 153.9 int. PR-2R (ambas direcciones) localizado en el municipio de Mayaguez PR, cual será objeto de una demolición parcial se encuentra libre de asbesto.

2. La información antes indicada es cierta y correcta.
3. Afirmo y reconozco las consecuencias de incluir y someter información falsa en este documento.
4. Para que así conste, firmo la presente certificación en Caguas de Puerto Rico, (Municipi) o hoy día 15 de julio de 2017.


Firma y Sello del Profesional o
Firma del Inspector de Asbesto registrado por la JCA (Original)

Nota: Ingenieros o Arquitectos deberán someter evidencia de que se encuentra al día en el pago de sus cuotas de colegiación e Inspectores de Asbesto deberán someter evidencia de la tarjeta de registro provista por la JCA.

Dirección Física: Ave. Ponce de León 1308, Carr. Estatal 8838, Sector el Cinco, Río Piedras, PR 00926
Dirección Postal: Apartado 11488, Santurce, PR 00910-1488
Tel. (787) 767-8181 • Fax (787) 767-1962

