Single-Family Housing LBP Testing Data Sheet

Page _____ of _____

Address/Unit No. _____ Date _____

Room Equivalent _____

XRF Serial No. _____ Inspector Name _____ Signature _____

Sample ID#	Substrate	Component	Color	Test Locations	XRF Reading	Correction Value	Result	Classification (pos, neg, inc)	Laboratory Result	UNITS	Final Classification
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
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										mg/cm² %	
										mg/cm² %	

Single-Family Housing LBP Testing Data Sheet

Address/Unit No. 918 Fenway Drive Date August 15, 1997

Room Equivalent Bedroom (room5)

XRF Serial No. RS-1967 Inspector Name Mo Smith Signature

Sample ID#	Substrate	Component	Color	Test Location	XRF Reading	Correction Value	Corrected Reading	Classification (pos, neg, inc)	Laboratory Result	UNIT?	Laboratory Classification
815.1	Plaster	Wall	White	Wall A, center	1.12 mg/cm²	N/A	1.12 mg/cm²			mg/cm² %	
815.2	Plaster	Wall	White	Wall B, left	0.92 mg/cm²	N/A	0.92 mg/cm²			mg/cm² %	
815.3	Plaster	Wall	White	Wall C, right	1.31 mg/cm²	N/A	1.31 mg/cm²			mg/cm² %	
815.4	Plaster	Wall	White	Wall D, right	1.12 mg/cm²	N/A	1.12 mg/cm²			mg/cm² %	
815.5	Drywall	Walk-in closet	Blue	Wall A, bottom left	1.81 mg/cm²	N/A	1.81 mg/cm²	POS		mg/cm² %	
815.6	Drywall	Walk-in closet	Blue	Wall B, center	1.62 mg/cm²	N/A	1.62 mg/cm²	POS		mg/cm² %	
815.7	Drywall	Walk-in closet	Blue	Wall C, top right	2.11 mg/cm²	N/A	2.11 mg/cm²	POS		mg/cm² %	
815.8	Drywall	Walk-in closet	Blue	Wall D, top right	1.85 mg/cm²	N/A	1.85 mg/cm²	POS		mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
815.9	Wood	Window sill	Brown	Center	2.23 mg/cm²	0.12	2.11 mg/cm²	POS		mg/cm² %	
815.10	Metal	Door frame	Black	Top	2.40 mg/cm²	0.10	2.30 mg/cm²	POS		mg/cm² %	
815.11	Wood	Shelf	White	Center	4.20 mg/cm²	N/A*	4.20 mg/cm²	POS		mg/cm² %	
815.12	Wood	Baseboard	Grey	Wall B, center	5.50 mg/cm²	N/A	5.50 mg/cm²	POS		mg/cm² %	
815.13	Wood	Crown molding	Grey	Wall D, left	5.70 mg/cm²	N/A	5.70 mg/cm²	POS		mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	
										mg/cm² %	

Note: Because there were more than 4 walls in the bedroom, and because the additional walls had the same painting history as the 4 walls tested, the average was calculated for the purpose of classifying this component:
(1.12 + 0.92 + 1.31 + 1.12) / 4=1.12 mg/cm²=POS

*Substrate correction not required on wood for readings above 4.0 mg/cm² per XRF Performance Characteristic Sheet.

Single Family Housing: Component Type Report

Page _____ of _____

Address/Unit No. _____

_____

Date _____ XRF Serial No._____

Inspector Name _____ Signature _____

Component Type Description	Number of Readings	Number of Positives*	Number of Negatives*	Component Type Classification

1997 Revisions

Form 7.1A

*Classify all components as positive or negative before filling out this sheet. If any components in a component type are positive, classify the component type as positive.

Single Family Housing: Component Type Report

Address/Unit No. 918 Fenway Drive Bedroom

Date August 15, 1997 XRF Serial No. RS-1967

Inspector Name Mo Smith Signature

Component Type Description	Number of Readings	Number of Positives*	Number of Negatives*	Component Type Classification
Window Sill (Wood)	15	11	4	Positive

*Classify all components as positive or negative before filling out this sheet. If any components in a component type are positive, classify the component type as positive.

Calibration Check Test Results

Address/Unit No. _____

_____

Device _____

Date _____ XRF Serial No. _____

Contractor _____

Inspector Name _____ Signature _____

NIST SRM Used _____ mg/cm^2 Calibration Check Tolerance Used _____ mg/cm^2

First Calibration Check

NIST SRM			First Average	Difference Between First Average and NIST SRM*
First Reading	Second Reading	Third Reading		

Second Calibration Check

NIST SRM			Second Average	Difference Between Second Average and NIST SRM*
First Reading	Second Reading	Third Reading		

Third Calibration Check *(if required)*

NIST SRM			Third Average	Difference Between Third Average and NIST SRM*
First Reading	Second Reading	Third Reading		

Fourth Calibration Check *(if required)*

NIST SRM			Fourth Average	Difference Between Fourth Average and NIST SRM*
First Reading	Second Reading	Third Reading		

* If the difference of the Calibration Check Average from the NIST SRM film value is greater than the specified Calibration Check Tolerance for this device, consult the manufacturer's recommendations to bring the instrument back into control. Retest all testing combinations tested since the last successful Calibration Check test.

Calibration Check Test Results

Address/Unit No. Fenway Gardens Housing Complex
Oldtown, Maryland 21334

Device WXY Company, Inc. XRF 2.1

Date August 16, 1997 XRF Serial No. RS-1967

Contractor RIGAH PG Testing, Inc.

Inspector Name Mo Smith Signature

NIST SRM Used 1.02 mg/cm² Calibration Check Tolerance Used 0.3 mg/cm²

First Calibration Check

NIST SRM			First Average	Difference Between First Average and NIST SRM*
First Reading	Second Reading	Third Reading		
1.12	1.00	1.08	1.07	0.05

Second Calibration Check End of Shift

NIST SRM			Second Average	Difference Between Second Average and NIST SRM*
First Reading	Second Reading	Third Reading		
0.86	1.07	0.89	0.94	-0.08

Third Calibration Check *(if required)*

NIST SRM			Third Average	Difference Between Third Average and NIST SRM*
First Reading	Second Reading	Third Reading		

Fourth Calibration Check *(if required)*

NIST SRM			Fourth Average	Difference Between Fourth Average and NIST SRM*
First Reading	Second Reading	Third Reading		

* If the difference of the Calibration Check Average from the NIST SRM film value is greater than the specified Calibration Check Tolerance for this device, consult the manufacturer's recommendations to bring the instrument back into control. Retest all testing combinations tested since the last successful Calibration Check test.

Calibration Check Test Results

Address/Unit No. 918 Fenway Drive
Oldtown, Maryland 21334

Device WXY Company, Inc. XRF 2.1

Date August 15, 1997 XRF Serial No. RS-1967

Contractor RIGAH PG Testing, Inc.

Inspector Name Mo Smith Signature

NIST SRM Used 1.02 mg/cm² Calibration Check Tolerance Used 0.2 mg/cm²

First Calibration Check

NIST SRM			First Average	Difference Between First Average and NIST SRM*
First Reading	Second Reading	Third Reading		
1.18	0.99	1.07	1.08	0.06

Second Calibration Check

NIST SRM			Second Average	Difference Between Second Average and NIST SRM*
First Reading	Second Reading	Third Reading		
1.45	1.21	1.10	1.25	0.22

Failed Calibration Check

Third Calibration Check *(if required)*

NIST SRM			Third Average	Difference Between Third Average and NIST SRM*
First Reading	Second Reading	Third Reading		

Fourth Calibration Check *(if required)*

NIST SRM			Fourth Average	Difference Between Fourth Average and NIST SRM*
First Reading	Second Reading	Third Reading		

* If the difference of the Calibration Check Average from the NIST SRM film value is greater than the specified Calibration Check Tolerance for this device, consult the manufacturer's recommendations to bring the instrument back into control. Retest all testing combinations tested since the last successful Calibration Check test.

Substrate Correction Values

Address/Unit No. _____

_____

Date _____ XRF Serial No. _____

Inspector Name _____ Signature _____

Use this form when the *XRF Performance Characteristics Sheet* indicates that correction for substrate bias is needed.

_____

_____

Substrate			Brick	Concrete	Drywall	Metal	Plaster	Wood
Location	1	First Reading						
		Second Reading						
		Third Reading						
	2	First Reading						
		Second Reading						
		Third Reading						
Correction Value (Average of the Six Readings)								

Transfer Correction Value for each substrate to the 'Correction Value' column of the LBP Testing Data Sheet.

Notes:

Substrate Correction Values

Address/Unit No. 918 Fenway Drive
Oldtown, Maryland 21334

Date August 15, 1997 XRF Serial No. RS-1967

Inspector Name Mo Smith Signature

Use this form when the *XRF Performance Characteristics Sheet* indicates that correction for substrate bias is needed.

Substrate			Brick	Concrete	Drywall	Metal	Plaster	Wood
Location	1	First Reading				0.10		0.14
		Second Reading				0.09		0.13
		Third Reading				0.09		0.12
	2	First Reading				0.10		0.11
		Second Reading				0.09		0.12
		Third Reading				0.11		0.12
Correction Value (Average of the Six Readings)						0.10		0.12

Transfer Correction Value for each substrate to the 'Correction Value' column of the LBP Testing Data Sheet.

Notes:

Metal: Location 1 - Door frame, Side B, Room 2
Location 2 - Door frame, Side C, Room 3

Wood: Location 1 - Window Sill, Side A, Room 1
Location 2 - Window Sill, Side B, Room 2

Selection of Housing Units

Page _____ of _____

Testing Site _____ Date _____

Inspector Name _____ Signature _____ Number of Distinct Units to be Sampled [ ]

Total Number of Units	Random Number*	Random Number times Total Number of Units #	Round up for Unit Number to be Sampled	Distinct Unit Number

* Obtained from a hand-held calculator

Record to one decimal place (e.g., 25.4)

Selection of Housing Units

Testing Site Fenway Gardens Housing Complex

Date August 16, 1997

Inspector Name Mo Smith

Signature

Number of Distinct Units to be Sampled 35

Total Number of Units	Random Number*	Random Number times Total Number of Units #	Round up for Unit Number to be Sampled	Distinct Unit Number
55	0.583	32.1	33	1
55	0.107	5.9	6	2
55	0.873	48.0	49	3
55	0.085	4.7	5	4
55	0.961	52.9	53	5
55	0.111	6.1	7	6
55	0.575	31.6	32	7
55	0.241	13.3	14	8
55	0.560	30.8	31	9
55	0.884	48.6	~~49~~	DUP
55	0.341	18.8	19	10
55	0.851	46.8	47	11
55	0.574	31.6	~~32~~	DUP
55	0.221	12.2	13	12
55	0.103	5.7	~~6~~	DUP
55	0.375	20.6	21	13
55	0.625	34.4	35	14
55	0.395	21.7	22	15
55	0.095	5.2	~~6~~	DUP
55	0.772	42.5	43	16
55	0.761	41.9	42	17
55	0.515	28.3	29	18
55	0.855	47.0	48	19
55	0.679	37.3	38	20
55	0.635	34.9	~~35~~	DUP
55	0.622	34.2	~~35~~	DUP
55	0.323	17.8	18	21
55	0.431	23.7	24	22
55	0.921	50.7	51	23
55	0.189	10.4	11	24
55	0.349	19.2	20	25
55	0.031	1.7	2	26

* Obtained from a hand-held calculator

Completed Form 7.4

Record to one decimal place (e.g., 25.4)

Selection of Housing Units

Testing Site Fenway Gardens Housing Complex

Date August 16, 1997

Inspector Name Mo Smith **Signature**

Number of Distinct Units to be Sampled 35

Total Number of Units	Random Number*	Random Number times Total Number of Units #	Round up for Unit Number to be Sampled	Distinct Unit Number
55	0.735	40.4	41	27
55	0.929	51.1	52	28
55	0.229	12.6	~~13~~	DUP
55	0.267	14.7	15	29
55	0.155	8.5	9	30
55	0.284	15.6	16	31
55	0.447	24.6	25	32
55	0.487	26.8	27	33
55	0.721	39.7	40	34
55	0.603	33.2	34	35

* Obtained from a hand-held calculator

Completed Form 7.4

Record to one decimal place (e.g., 25.4)

Multifamily Housing LBP Testing Data Sheet

Page _____ of _____

Address/Unit No. _____ Date _____

Room Equivalent _____

XRF Serial No. _____ Inspector Name _____ Signature _____

Sample ID#	Substrate	Component	Color	Replication Number	Test Location	XRF Reading	Correction Value	Corrected Reading	Classification (pos, neg, inc)	Laboratory Result	UNITS	Laboratory Classification
											mg/cm² %	
											mg/cm² %	
											mg/cm² %	
											mg/cm² %	
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Multifamily Housing LBP Testing Data Sheet

Address/Unit No. Fenway Gardens Housing Complex Date August 16, 1997

Room Equivalent Unit #9, Bedroom

XRF Serial No. RS-1967 Inspector Mo Smith Signature

Sample ID#	Substrate	Component	Color	Replication Number	Test Location	XRF Reading	Correction Value	Corrected Reading	Classification (pos, neg, inc)	Laboratory Result	UNITS	Laboratory Classification
816.1	Concrete	Ceiling beam	White	1	Wall A	1.57	N/A	N/A	Pos		mg/cm² %	
816.2	Wood	Door	Brown	2	Closet door	0.52	N/A	N/A	Inc		mg/cm² %	
816.3	Plaster	Walls	White	4	Wall A	0.22	N/A	N/A	Neg		mg/cm² %	
816.4	Wood	Window casing	Brown	1	Wall B	0.95	N/A	N/A	Inc		mg/cm² %	
816.5	Wood	Door	Green	2	Wall C	0.90	N/A	N/A	Inc	0.13	mg/cm² %	Neg
816.6	Wood	Baseboard	Green	3	Wall D	0.40	N/A	N/A	Neg		mg/cm² %	
816.7	Concrete	Support column	White	2	Corner of walls D and A	2.50	N/A	N/A	Pos		mg/cm² %	
816.8	Metal	Radiator	Brown	1	Wall D, right side	0.41	N/A	N/A	Inc		mg/cm² %	
											mg/cm² %	
											mg/cm² %	
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Multifamily Housing: Component Type Report

Page ______ of ______

Address/Unit No. ____

____

Date ______________________ XRF Serial No.______________________

Inspector Name ______________________ Signature ______________________

Description	Number of Readings	POSITIVE		INCONCLUSIVE*				NEGATIVE		Comp. Type Classif.
		Number	Percent	Low		High		Number	Percent	
				Number	Percent	Number	Percent			

1997 Revision

Form 7.6

* Lower Boundary: ________ Upper Boundary: ________ Midpoint:________

Multifamily Housing: Component Type Report

Address/Unit No. Fenway Gardens Housing Complex/Unit #9

Date August 16, 1997 XRF Serial No. RS-1967

Inspector Name Mo Smith Signature

Description	Total Number	POSITIVE		INCONCLUSIVE				NEGATIVE		Final Class.
		Number	Percent	Low		High		Number	Percent	
				Number	Percent	Number	Percent			
Wood Shelves	83	4	4.8	5	6.0	9	10.8	65	78.3	NEG
Wood Doors	110	40	36.4	12	10.9	8	7.3	50	45.5	POS
~~Wood Door Casings~~	~~34~~	~~6~~	~~17.6~~	~~5~~	~~14.7~~	~~5~~	~~14.7~~	~~18~~	~~52.9~~	
Wood Hall Cabinets	60	5	8.3	8	13.3	12	20.0	35	58.3	POS
Wood Window Stools	110	60	54.5	30	27.3	10	9.1	10	9.1	POS
Wood Window Casings	63	0	0.0	0	0.0	0.0	0.0	63	100	NEG
Plaster Walls	110	0	0.0	10	9.1	9	8.2	91	82.7	NEG
Concrete Support Columns	40	40	100	0	0.0	0	0.0	0	0.0	POS
Concrete Ceiling Beams	40	40	100	0	0.0	0	0.0	0	0.0	POS
Metal Baseboards	45	0	0.0	0	0.0	0	0.0	45	100	NEG
Metal Gutters	50	20	40.0	8	16.0	2	4.0	20	40.0	POS
Brick Stairway	50	10	20.0	4	8.0	6	12.0	30	60.0	POS
Metal Radiators*	55	0	0.0	11	20.0	13	23.6	31	56.4	POS
Wood Door Casings	40	12	30.0	5	12.5	5	12.5	18	45.0	POS
* Metal Radiators:										
(retest of high inconclusives)	13	9	69.2	—	—	—	—	4	30.7	POS

1997 Revision

Completed Form 7.6

* Lower Boundary: 0.41 mg/cm² Upper Boundary: 1.39 mg/cm² Midpoint: 0.90 mg/cm²