

6501 E. Commerce, Suite 230 Kansas City, MO 64120 Telephone: 816.231.5580 Fax: 816.231.5641 www.occutec.com

December 17, 2008

Mr. David Hartshorn GSA Heartland Region Safety & Environmental Team Leader Facilities Management Division 6PF 1500 East Bannister Road Room 2101 Kansas City, Missouri 64131-3088

#### RE: Child Care Center Lead Survey – Goodfellow Federal Center, St. Louis, Missouri (MO0610) Project No. 98130.05

Dear Mr. Hartshorn:

Thank you for the opportunity to provide the General Services Administration (GSA) with the subject survey. The following is our report.

#### BACKGROUND

As requested, OCCU-TEC conducted lead testing services at the Child Care Center, located at the Goodfellow Federal Center, in St. Louis, Missouri. The water and paint testing took place on November 6, 2008. The purpose of the testing is to determine the presence and potential exposure of small children to lead through drinking water and lead-based paint. Potential sources of lead in drinking water include lead solder joints, lead service lines, and in rare instances, the water supply itself. Lead compounds in paint, such as white lead and lead chromate were used primarily as color pigments. Children can become exposed to lead in paint by directly eating paint chips, or chewing on protruding surfaces. The most common route of exposure, however, is the ingestion of lead-bearing dust that is generated by the paint when it deteriorates, chalks, or is disturbed by building renovation activities.

#### EXPERIMENTAL

Sampling areas were limited to only faucets and drinking fountains accessed by children and painted surfaces within the reach of children. Other areas of the building were not included in the subject survey. Drinking water was collected from 11 locations within the Child Care Center. Samples were collected in 500 milliliter containers that were supplied by the analytical laboratory (Bureau Veritas – North America). The drinking water samples were submitted via Fed Ex to Bureau Veritas - North America for independent analyses. Bureau Veritas is accredited by the AIHA for analyses of lead in drinking water. Bureau Veritas used EPA Method 200.8 for analysis. The Analytical results and Chain-of-Custody information are presented in the Attachments.

The paint inspection was conducted using RMD's LPA-1 X-ray Florescence (XRF) detector. This model is state of the art equipment using x-ray radiation to analyze numerous paint layers for lead, with a 95% confidence level. There were 52 distinct sampling locations tested for the presence of lead-based paint in this facility.

#### **RESULTS AND DISCUSSION**

#### Water Sampling

The laboratory data from Bureau Veritas indicates that the results ranged from ND (Not Detected at the Reporting Limit) to 18 ug/L.

#### Paint Testing

No painted surfaces within the subject survey area tested positive for lead-based paint using the Housing of Urban Development (HUD) lead standard of 1.0 milligram per square centimeter (1.0 mg/cm<sup>2</sup>). Refer to the attached XRF Sample Sheet(s) for complete testing results.

#### SUMMARY

The maximum level allowed by federal, state and local drinking water standards or Maximum contaminant level (MCL) for lead in drinking water is 15 ug/L or 15 parts per billion. One of the water samples (GW-11) from the Multipurpose Room had results above this level. Refer to the field drawing for the location of this sample. All other sample results were within acceptable levels. No lead-based paint above the HUD Lead Standard of 1.0 mg/cm<sup>2</sup> was identified within the subject survey area.

OCCU-TEC appreciates the opportunity to work with you on this project. Please contact us if we can be of further assistance. We look forward to future opportunities to provide our services to you.

Sincerely,

(b) (6)

Jeff T. Smith Project Manager

Attachments



December 17, 2008

Jeff Smith OCCU-TEC 6501 E. Commerce Suite 230 Kansas City, MO 64120-

Bureau Veritas Work Order No. 08120123

Reference: FEDERAL CENTER-GOOD FELLOW, ST LOUIS, MO/98130.05

Dear Jeff Smith:

Bureau Veritas North America, Inc. received 11 samples on 12/3/2008 for the analyses presented in the following report.

Enclosed is a copy of the Chain-of-Custody record, acknowledging receipt of these samples. Please note that any unused portion of the samples will be discarded 30 days after the date of this report, unless you have requested otherwise.

This material is confidential and is intended solely for the person to whom it is addressed. If this is received in error, please contact the number provided below.

We appreciate the opportunity to assist you. If you have any questions concerning this report, please contact a Client Services Representative at (800) 806-5887.

Sincerely,

Ellen Coffman / /

Client Services Representative

cc: Michael Wantland (Bureau Veritas)

## **CASE NARRATIVE**

Client:	GENERAL SERVICES ADMINISTRATION
Project:	FEDERAL CENTER-GOOD FELLOW, ST LOUIS, MO/98130.05
Work Order No	08120123

The results of this report relate only to the samples listed in the body of this report.

Unless otherwise noted below, the following statements apply: 1) all samples were received in acceptable condition, 2) all quality control results associated with this sample set were within acceptable limits and/or do not adversely affect the reported results, and 3) the industrial hygiene results have not been blank corrected.

This is a revised report. The sample descriptions for "GW-10" and GW-11" have been changed as requested on 12-17-08.

Date: 17-Dec-08

Client:	GENERAL SERVICES ADM	INISTRATIC	DN		Work Order No: 08120123						
Project:	FEDERAL CENTER-GOO	D FELLOV	V, ST LOUIS	5, MO/9	0/98130.05						
Lab ID:	08120123-001A				C	Client Sample ID:	GW-01-HALLWAY- FOUNTAIN				
Matrix:	DRINKING WATER					Tag Number:					
						<b>Collection Date:</b>	11/6/2008				
Analyses		Result	Reporting Limit	Qual	Unit	s DF	Date Analyzed	Analyst			
	G WATER METALS; METHO										
Lead		ND	3.0		μg/L	1	12/9/2008	B RS			

#### Qualifiers:

- J Analyte detected below the Reporting Limit
- B Analyte detected in the associated Method Blank
- \* Value exceeds Maximum Contaminant Level
- S Spike Recovery outside accepted recovery limits
- R RPD outside accepted recovery limits
- E Value above quantitation range
- T Tentatively Identified Compound (TIC)

Date: 17-Dec-08

Client:	GENERAL SERVICES ADM	IINISTRATIO	STRATION Work Order No: 08120123					
Project:	FEDERAL CENTER-GO	OD FELLOV	V, ST LOUIS	5, MO/9	8130.0	5		
Lab ID:	08120123-002A			Client Sample ID: GW-02-HALLWAY- FOUNTAIN				
Matrix:	DRINKING WATER					Tag Number:		
						Collection Date:	11/6/2008	
Analyses		Result	Reporting Limit	Qual	Units	DF	Date Analyzed	Analyst
	G WATER METALS; METHO							
Lead		ND	3.0		μg/L	1	12/9/2008	B RS

#### Qualifiers:

- J Analyte detected below the Reporting Limit
- B Analyte detected in the associated Method Blank
- \* Value exceeds Maximum Contaminant Level
- S Spike Recovery outside accepted recovery limits
- R RPD outside accepted recovery limits
- E Value above quantitation range
- T Tentatively Identified Compound (TIC)

Date: 17-Dec-08

Client:	GENERAL SERVICES ADM	INISTRATIO	ON		Work Order No: 08120123						
Project:	FEDERAL CENTER-GOO	D FELLOV	V, ST LOUIS	S, MO/9	8130.0	5					
Lab ID:	08120123-003A					Client Sample ID: GW-03-YELLOW RM KITCHEN					
Matrix:	DRINKING WATER					Tag Number:					
					(	Collection Date:	11/6/2008				
Analyses		Result	Reporting Limit	Qual	Units	DF	Date Analyzed	Analyst			
DRINKIN	G WATER METALS; METHO	D EPA 200.8									
Lead		ND	3.0		µg/L	1	12/9/2008	RS			

#### Qualifiers:

- J Analyte detected below the Reporting Limit
- B Analyte detected in the associated Method Blank
- \* Value exceeds Maximum Contaminant Level
- S Spike Recovery outside accepted recovery limits
- R RPD outside accepted recovery limits
- E Value above quantitation range
- T Tentatively Identified Compound (TIC)

Date: 17-Dec-08

Client:	GENERAL SERVICES ADMI	NISTRATIC	N		Work Order No: 08120123						
Project:	FEDERAL CENTER-GOOI	) FELLOV	W, ST LOUIS, MO/98130.05								
Lab ID:	08120123-004A				Cl	ient Sample ID:	GW-04-TEAL FOUN	TAIN			
Matrix:	DRINKING WATER		Tag Number:								
					(	Collection Date:	11/6/2008				
Analyses		Result	Reporting Limit	Qual	Units	DF	Date Analyzed	Analyst			
DRINKIN	G WATER METALS; METHOD	) EPA 200.8									
Lead		ND	3.0		μg/L	1	12/9/200	8 RS			

#### Qualifiers:

- J Analyte detected below the Reporting Limit
- B Analyte detected in the associated Method Blank
- \* Value exceeds Maximum Contaminant Level
- S Spike Recovery outside accepted recovery limits
- R RPD outside accepted recovery limits
- E Value above quantitation range
- T Tentatively Identified Compound (TIC)

ANAI	LYTICAL RESU	LTS					Date: 17-Dec-08		
Client:	GENERAL SERVICES ADM	AINISTRATIC	ON Work Order No: 08120123						
Project:	FEDERAL CENTER-GO	OD FELLOV	V, ST LOUIS	5, MO/9	8130.05				
Lab ID:	08120123-005A				Client	Sample ID: G	W-05-BLUE FOUNTAIN		
Matrix:	DRINKING WATER				Τε	g Number:			
					Colle	ction Date: 1	1/6/2008		
Analyses	······	Result	Reporting Limit	Qual	Units	DF	Date Analyzed Analyst		
DRINKIN	G WATER METALS; METH	OD EPA 200.8							
Lead		ND	3.0		μg/L	1	12/9/2008 RS		

#### Qualifiers:

- J Analyte detected below the Reporting Limit
- B Analyte detected in the associated Method Blank
- \* Value exceeds Maximum Contaminant Level
- S Spike Recovery outside accepted recovery limits
- R RPD outside accepted recovery limits
- E Value above quantitation range
- T Tentatively Identified Compound (TIC)

#### GENERAL SERVICES ADMINISTRATION **Client:** Work Order No: 08120123 FEDERAL CENTER-GOOD FELLOW, ST LOUIS, MO/98130.05 **Project:** Lab ID: 08120123-006A Client Sample ID: GW-06-KITCHEN SINK Matrix: DRINKING WATER **Tag Number:** Collection Date: 11/6/2008 Reporting Result DF Analyses **Qual Units** Date Analyzed Analyst Limit **DRINKING WATER METALS; METHOD EPA 200.8** 3.0 Lead ND μg/L 1 12/9/2008 RS

#### Qualifiers:

ND - Not Detected at the Reporting Limit (RL).

- J Analyte detected below the Reporting Limit
- B Analyte detected in the associated Method Blank
- \* Value exceeds Maximum Contaminant Level
- S Spike Recovery outside accepted recovery limits
- R RPD outside accepted recovery limits
- E Value above quantitation range
- T Tentatively Identified Compound (TIC)

Date: 17-Dec-08

**ANALYTICAL RESULTS** 

Date: 17-Dec-08

Client:	GENERAL SERVICES ADM	IINISTRATIC	)N		Work Order No: 08120123						
Project:	FEDERAL CENTER-GO	OD FELLOV	ELLOW, ST LOUIS, MO/98130.05								
Lab ID:	08120123-007A				Client	Sample ID: 0	W-07-PINK FOUN	ΓΑΙΝ			
Matrix:	DRINKING WATER		Tag Number:								
					Colle	ection Date: 1	1/6/2008				
Analyses		Result	Reporting Limit	Qual	Units	DF	Date Analyzed	Analyst			
DRINKIN	G WATER METALS; METH	OD EPA 200.8									
Lead		3.6	3.0		μg/L	1	12/9/200	B RS			

#### Qualifiers:

- J Analyte detected below the Reporting Limit
- B Analyte detected in the associated Method Blank
- \* Value exceeds Maximum Contaminant Level
- S Spike Recovery outside accepted recovery limits
- R RPD outside accepted recovery limits
- E Value above quantitation range
- T Tentatively Identified Compound (TIC)

ANAI	LYTICAL RESULTS	Date: 17-Dec-08
Client:	GENERAL SERVICES ADMINISTRATION	Work Order No: 08120123
Project:	FEDERAL CENTER-GOOD FELLOW, ST LOU	IS, MO/98130.05
Lab ID:	08120123-008A	Client Sample ID: GW-08-PURPLE FOUNTAIN
Matrix:	DRINKING WATER	Tag Number:
		Collection Date: 11/6/2008
Amalagaa	Reporting	

Analyses	Result	Reporting Limit	Qual	Units	DF	Date Analyzed	Analyst
DRINKING WATER METALS; ME							
Lead	ND	3.0		μg/L	1	12/9/2008	S RS

#### Qualifiers:

- J Analyte detected below the Reporting Limit
- B Analyte detected in the associated Method Blank
- \* Value exceeds Maximum Contaminant Level
- S Spike Recovery outside accepted recovery limits
- R RPD outside accepted recovery limits
- E Value above quantitation range
- T Tentatively Identified Compound (TIC)

Date: 17-Dec-08

Client:	GENERAL SERVICES ADN	IINISTRATIC	N		Work Order No: 08120123						
Project:	FEDERAL CENTER-GO	OD FELLOV	DW, ST LOUIS, MO/98130.05								
Lab ID:	08120123-009A				Clien	t Sample ID: G	W-09-YELLOW R	M SINK			
Matrix:	DRINKING WATER	Tag Number:									
					Col	lection Date: 11	/6/2008				
Analyses		Result	Reporting Limit	Qual	Units	DF	Date Analyzed	Analyst			
DRINKIN	G WATER METALS; METHO	OD EPA 200.8									
Lead		ND	3.0		μg/L	1	12/9/200	8 RS			

#### Qualifiers:

- J Analyte detected below the Reporting Limit
- B Analyte detected in the associated Method Blank
- \* Value exceeds Maximum Contaminant Level
- S Spike Recovery outside accepted recovery limits
- R RPD outside accepted recovery limits
- E Value above quantitation range
- T Tentatively Identified Compound (TIC)

Date: 17-Dec-08

Client:	GENERAL SERVICES ADM	IINISTRATIC	)N	Work Order No: 08120123							
Project:	FEDERAL CENTER-GO	OD FELLOV	V, ST LOUIS	5, MO/9	98130.0	5					
Lab ID:	08120123-010A				Client Sample ID: GW-10 MULTIPURPOSE ROOM						
Matrix:	DRINKING WATER					Tag Number:					
					(	Collection Date:	11/6/2008				
Analyses		Result	Reporting Limit	Qual	Units	DF	Date Analyzed Analyst				
DRINKIN	G WATER METALS; METHO	DD EPA 200.8									
Lead		8.8	3.0		μg/L	1	12/9/2008 RS				

#### Qualifiers:

- J Analyte detected below the Reporting Limit
- B Analyte detected in the associated Method Blank
- \* Value exceeds Maximum Contaminant Level
- S Spike Recovery outside accepted recovery limits
- R RPD outside accepted recovery limits
- E Value above quantitation range
- T Tentatively Identified Compound (TIC)

ANAI	LYTICAL RESU	Date: 17-Dec-08									
Client:	GENERAL SERVICES AD	AINISTRATIO	ON		Work Order No: 08120123						
Project:	FEDERAL CENTER-GO	FEDERAL CENTER-GOOD FELLOW, ST LOUIS, MO/98130.05									
Lab ID:	08120123-011A	Client Sample ID: GW-11-MULTIPURPOSE ROOM									
Matrix:	DRINKING WATER					Tag Number:					
					C	ollection Date:	11/6/2008	3			
Analyses		Result	Reporting Limit	Qual	Units	DF	Dat	te Analyzed	Analyst		
DRINKIN	G WATER METALS; METH	OD EPA 200.8									

3.0

μg/L

1

12/9/2008

RS

18

#### Qualifiers:

Lead

- J Analyte detected below the Reporting Limit
- ${\bf B}$  Analyte detected in the associated Method Blank
- \* Value exceeds Maximum Contaminant Level
- ${\bf S}$  Spike Recovery outside accepted recovery limits
- R RPD outside accepted recovery limits
- E Value above quantitation range
- T Tentatively Identified Compound (TIC)

REQUEST FOR LABORATORY ANALYTICAL SERVICES	AN VE	a Bui	reau Verita	is North America, Inc.								RUSH ANALYSIS		
For Bureau Veritas Use Only Bureau Veritas Lab Project No.	BURE VERIT	Novi, 1 (800) A U: (248)	Roethel Drive 3   MI 48375 K   806-5887 (8   344-1770 (7	(ennes: 800) 25 770) 49			Pky, Ste	300 95 Lai (88 (84	icago La Oakwoo ke Zurich 38) 576-7 47) 726-3 x (847) 7	d Road n, IL 60 7522 3320		Need R Charge (if ye	Accults by:/ as Authorized? [] Ye as, initial here) aail Results [] Fax	
						(	<u>357</u>	<u> </u>						
			98130.05	OICE	Contract No. <u>PJ8F01009</u> Project ID						CHUCD CARE (FAD			
Company" Occu-Tec	Dep		1	BILLING/INVO INFORMATIC		- No			-			Sus	VEY	LUN
Mailing Address 6 501- E. Co City, State, Zip Kansa-S- City	In mer (E	64120	te 230	FOR		NO.								
Telephone No. $8l_6 - Z3l_{}SS80$	Fax No.	816-231	- Slath 1	BILL										
Special instructions and/or specific regulatory requirer	<u> 010-030</u>	- \$047	~	ANALYSIS REQUESTED (Enter an 'X' in the box below to indicate request. Enter a 'P' if Preservative a								ided ")		
(method, limit of detection, etc.)	11	A. Lows	MO	Containers			er an 'A' i		Delow to H		equest. Em		Preservative added. )	~ /
Federal Center - Good tellow - SILL													///	
Federal Center - Good fellow - St. L *Explanation of Preservation Uncle Soums Ki			.d. S. "			1								
CLIENT SAMPLE IDENTIFICATION	DATE SAMPLED	Matrix/ Media	AIR VOLUME (specify units)	Number	ĺ	EAD	$\leq$			$\square$		$\square$		FOR LAB USE ONLY
GW-01 - Hallway-Foundar	11-6	Water			$\times$									
GW-02 - Hallway-Fountain	- 1	1			×									
GW-03 Yellow Rm Kitchen					X									
GW-Of - Teal Fountain					$\times$									
Gul-05-Blue Fountain					$\times \mid$									
GW-06 - Kitchen Sink					×							ļ		
GW-07- Pink Fountain		er			$\times$						· [			
GW-08-Purple Fountain	V			L	$\times$				l	<u> </u>		ļ		
GW-09-Yellow Rm Sink					$\times$					<u> </u>		<u> </u>		
GW-10- MP.R. Sink					$\times$									<u></u>
GW-11-MP.R. Sink					$\times$			· ·	<b></b>					
								1	<u>  .</u>					
Collected by: Jeff Sum	th		(print)			gnature:	-						Data	
CHAIN OF			/Time / /-/0-08		eived by:		<i></i>						Date/Time Date/Time	
CUSTODY Relinquished by:			/Time		eceived by:							Date/Time		
Method of Shipment: $Fed E \times$					Received at Lab by: Sample Condition Upon Receipt: Acceptable Other (explain)									
Authorized by:	st)	Date /	1-10-08	Gan				p* <u>C.</u> /					Page	of

# UNCLE SAM'S KIDS Evacuation Routes

\*

COCCU-TEC SAFETY AND ENVIRONMENTAL SOLUTIONS 6501 E. Commerce, Suite 230 • Kansas City, MO 64120 Telephone 816-231-5560 • Fax 816-231-5641

**GSA** Heartland Region

Client:

## **XRF Sample Sheet**

98130.05

Project Number:

11/6/2008 Child Care Lead Testing Project: Date: Building: Goodfellow Federal Center, St. Louis, MO Page 1 of 2 Sample Reading Condition (I, F, Number Floor Room Location Component Color mg/cm2 Substrate P) 1 Calibration 0.8 2 0.8 Calibration 3 Calibration 0.9 4 Blue 0.0 1 Entry East Wall Drywall Intact 5 1 Entry East Window Frame White Wood Intact 0.0 6 Wall 0.0 1 Entry West Red Drywall Intact 7 1 White 0.0 Entry West Ceiling Drywall Intact 8 1 Hallway East Wall Red Drywall Intact 0.0 9 0.0 1 Hallway Wall East Orange Drywall Intact 10 1 Hallway East Wall Yellow Drywall Intact 0.0 11 1 Hallway East Wall Green Drvwall Intact 0.0 0.0 12 1 Hallway Wall Turquoise East Drywall Intact Hallway Wall Blue Drywall 0.0 13 1 East Intact 14 0.0 1 Wall Hallway Purple Drywall Intact East 15 1 Hallway East Door Black Metal Intact 0.0 16 1 Hallwav East Door Frame Black Metal Intact 0.3 17 1 0.0 Hallway Wall West Grey Drywall Intact 18 1 Hallway South Door Grev Metal Intact 0.0 19 0.0 1 Hallway Door Frame South Grey Metal Intact 20 1 Hallway West Wall Lite Green Drywall Intact 0.0 21 1 Hallway West Wall Med Green Drywall Intact 0.0 22 1 Hallway West Window Frame Red Wood Intact 0.0 23 1 Hallway West Wall Violet Drywall Intact 0.0 1 Wall 0.0 24 Hallway West Orange Drywall Intact 25 1 Hallway West Door Frame Grey Wood Intact 0.0 26 1 Hallway West Wall Pink Drywall Intact 0.0 27 Wall 0.0 1 Hallway West Lime Green Drywall Intact 28 1 Hallway West Wall Lite Blue Drywall Intact 0.0 29 0.0 1 Pink East Door Pink Wood Intact 30 1 Pink East Door Frame Grev Wood Intact 0.0 31 1 Pink West Wall Grev Wood Intact 0.0 0.0 32 1 Pink North Spindle Varnish Wood Intact Wood 33 1 Rail Varnish 0.0 Pink North Intact 34 1 Varnish 0.0 Pink North Post Wood Intact 35 1 Pink North Drain Pipe Black Metal Fair 0.2 36 Half Door 0.0 Pink Wood 1 East Grey Intact Color Key Componant Key Substrate Key Beige -Grey Door, DF - Door Frame, DJ - Door Jamb SB - Stair Baseboard, SR - Stair Riser, R- Railing - Brick P - Plaste PC - Plastic BK - Black M- Mint S- Stained W- Wall, C- Ceiling, BB - Baseboard ST - Stair Tread, RC- Railing Cap, B- Balusters C - Concrete V - Vinyl NP- Newel Post, CLM - Column, CM - Crown Moulding BL - Blue O- Orange T - Tan WS - Window Sill, WA - Window Apron. DW - Drywall BW - Brown PK - Pink W - White WW - Window Well, WSH - Window Sash S- Shelf, SS - Shelf Support, F - Floor, DW - Drawer DWT - Drywall w Texture C- Cream PR - Purple Y - Yellow WM - Window Mullian, WF - Window Frame CB - Cabinet, CI - Cabinet Interior, CNT - Counter G - Glass W - Wood P-Papered Lt - Light WC - Wall Covering G - Green WSC - Window Screen, WJ, Window Jamb P- Pipe, VC - Vent Cover, CT - Ceiling Tile M - Metal

CC - Calibration Check

F:/SHARE/FORMS/Operations/XRFsampleLog.xls

CU-TEC SAFETY AND ENVIRONMENTAL SOLUTIONS 6501 E. Commerce, Suite 230 • Kansas City, MO 64120 Telephone 816-231-5580 • Fax 816-231-5641

## **XRF Sample Sheet**

Client: Project: Building:	Child C	eartland Regi are Lead Tes low Federal		_	Project Number: Date:				
Sample Number	Floor	Room	Location	Component	Color	Substrate	Page 2 of 2 Condition (I, F, P)	Reading mg/cm2	
37	1	Pink RR	West	Floor	Grey	Ceramic	Intact	0.0	
38	1	Pink RR	West	Floor	White	Ceramic	Intact	0.0	
39	1	Kitchen	East	Door	Grey	Wood	Intact	0.0	
40	1	Kitchen	East	Door Frame	Grey	Metal	Intact	0.0	
40	1			Wall	1	Drywall	1	0.0	
41		Purple	East	Post	Grey Varnish	Wood	Intact	0.0	
	1	Purple	East				Intact		
43	1	Purple	East	Spindle	Varnish	Wood	Intact	0.0	
44	1	Blue	West	Wall	White	Drywall	Intact	0.0	
45	1	Blue	West	Door	Black	Metal	Intact	0.0	
46	1	Blue	West	Door Frame	Black	Metal	Intact	0.4	
47	1	Blue	East	Door	Blue	Wood	Intact	0.0	
48	1	Teal	North	Wall	White	Drywall	Intact	0.0	
49	1	Teal	East	Door	Teal	Wood	Intact	0.0	
50	1	Green	East	Door	Green	Wood	Intact	0.0	
51	1	Green	East	Door Frame	Grey	Wood	Intact	0.0	
52	1	Green	West	Wall	White	Drywall	Intact	0.0	
53	1	Yellow	East	Door	Yellow	Wood	Intact	0.0	
54	1	Red	East	Door	Red	Wood	Intact	0.0	
55	1	Red	East	Door Frame	Grey	Wood	Intact	0.0	
56			Calibration					0.9	
57			Calibration					0.8	
58			Calibration					0.9	
			1						
	Color Key			nponant Key		1	Substrate Key	,	
- Beige	GY -Grey R	- Red	D - Door, DF - Door Frame, DJ - Door Jamb		BK - Brick P - Plaster				
BK - Black BL - Blue	O- Orange T		W- Wall, C- Ceiling, BB - Baseboard WS - Window Sill, WA - Window Apron,	CM - Crown Moulding					
W - Brown - Cream	PK - Pink W PR - Purple Y P- Papered Lt	- Yellow	WW - Window Well, WSH - Window Sash WM - Window Mullian, WF - Window Frame WSC - Window Screen, WJ, Window Jamb	S- Shelf, SS - Shelf Support, F - CB - Cabinet, CI - Cabinet Interi P- Pipe, VC - Vent Cover, CT - C	or, CNT - Counter	DWT - Drywall w/ G - Glass M - Metal	Texture W - Wood WC - Wall Covering		

CC - Calibration Check F:/SHARE/FORMS/Operations/XRFsampleLog.xls

# STATE OF MISSOURI ENVIRONMENTAL REGULATION & LICENSURE

# **LEAD OCCUPATION LICENSE REGISTRATION**

Issued to:

# **Jeffrey T Smith**

The person, firm or corporation whose name appears on this certificate has fulfilled the requirements for licensure as set forth in the Missouri Revised Statutes 701.300-701.338, as long as not suspended or revoked, and is hereby authorized to engage in the activity listed below.

# **Risk Assessor**

Category of License

Issuance Date: Expiration Date: License Number: March 16, 2007 March 16, 2009 010316-200089640

(b) (6)

Jane Drummond Director Department of Health and Senior Services

Lead Licensing Program, PO Box 570, Jefferson City, MO 65102