### **Lead-Based Paint Risk Assessment Report**

For the Dwelling Located at:
Aaron Palmer
201 N. Main St.
Muldrow, OK 74948
(918) 427-1072
CNH Rehab.
Built: 1956
N 35,41140 W 94,59940

#### Prepared For:

Cherokee Nation Housing Rehab Using ODEQ, EPA and CN Work Practice Standards Established in 40 CFR 745-227

Lab Analysis by
EMSL Analytical Inc.
3029 S. Jefferson
Saint Louis, MO 63118
(314) 577-0150 Fax (314) 776-3313

#### By:

Jeremy J. Freise, Certified Risk Assessor

Expiration: March 31, 2012 P.O. Box 948 Tahlequah, OK 74465 (918) 453-5009 Niton XLp300A Serial # 26524

OK Risk Assessor OKRASR13522

Date: 12-27-2011

OK Firm

OKFIRM11198

CN Firm

CNFIRM00001

CN Risk Assessor CNRASR00029

Signatura

#### Summary

#### Part I: Identifying Information

Identity of dwelling(s) covered by report, identity of property(ies).

- Risk Assessor, Name of Certificate (or License) and Number and State issuing certificate/license.
- 2. Property Owner Name, Address, and Phone Number.
- Date of Report, Date of Environmental Sampling.

# Part II: Completed Management, Maintenance, and Environmental Results Forms and Analyses

- List of Location and Type of Identified Lead Hazards including and indication of which hazards are priorities (this summary should be suitable for use as notification to residents).
- Optional Management Information (Form 5.6) (not required if all dwellings were sampled).
- 6. Maintenance/Paint Condition Information (Form 5.2 or 5.7)
- 7. Building Condition (Form 5.1)
- Brief Narrative Description of Dwelling Selection Process (not required if all dwellings were sampled).
- 9. Analysis of Previous XRF Testing Report (if applicable).
- 10. Deteriorated Paint Sampling Results (Form 5.3 or 5.3a)
- 11. Dust Sampling Results (Form 5.4 or 5.4a)
- 12. Soil Sampling Results (Form 5.5)
- 13. Other Sampling Results (if applicable)

#### Part III: Lead Hazard Control Plan

- 14. Lead-Based Paint Policy Statement (not applicable for homeowners).
- 15. Name of individual in Charge of Lead-Based Paint Hazard Control Program.
- Recommended Changes to Work Order System and Property Management (optional, not applicable for homeowners or property owner without work order systems).
- Acceptable Interim Control Options For This Property and Estimated Costs.
- Acceptable Abatement Options For This Property and Estimated Costs.
- 19. Reevaluation Schedule (if applicable).
- 20. Interim Control/Abatement to Be Implemented in This Property.
- 21. A Training Plan for Managers, Maintenance Supervisors, and Workers (this should include named individuals), if applicable.
- 22. Method of Resident Notification of Results of Risk Assessment and Lead Hazard Control Program (not applicable for homeowners). Note: This section should include a discussion of how residents are to be educated about lead poisoning, before the risk assessment results are released.
- 23. Signature (Risk Assessor) and Date.
- 24. All laboratory raw data.

### Part IV: Appendix

#### Part 1: Identifying Information

Aaron Palmer 201 N. Main St. Muldrow, OK 74948 (918) 427-1072

Part II: Results

List of Location and Type of Identified Lead Hazards

- · Interior A Side Cabinet Bathroom
- · Exterior A Side Porch Header
- Exterior A Side Wall
- Exterior A Side Fascia
- Exterior A Side Rafter
- · Exterior A Side Garage Door
- Exterior A Side Garage Door Header
- Exterior B Side Window Apron
- Exterior B Side Garage Door
- · Exterior B Side Garage Door Casing
- Exterior D Side Wall
- Exterior D Side Door

A few other painted surfaces that have not been tested for lead are in "fair" condition and should be repainted within the next year before further deterioration occurs. However, these surfaces are not considered to be immediate "hazards," using criteria in the 1995 IIUD Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing. Those surfaces are:

There has not been any previous lead-based paint testing at this dwelling, although a lead-based paint inspection of all painted surfaces is recommended so that potential lead problems can be monitored before they become hazardous. Soil lead levels were all below 400ug/g. Current EPA and HUD Guidance for soil is 400ug/g for bare play areas and 1,200 ug/g for other areas. Using these criteria, soil is not a hazard at this property. The owner has decided to select the following hazard control measures, which are all acceptable based on HUD's Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing:

**Reevaluation:** Standard Reevaluation Schedule 3 contained in the HUD Guidelines applies to this property, since one of the rooms had a dust lead level greater that the standard. Therefore, the dwelling should be reevaluated in 12/27/2012 (12 months from now). If no lead-based paint hazards are identified at this time, no further reevaluations are needed. However, since lead-based paint may be present in the dwelling, the owner should monitor the condition of all painted surfaces at least annually or whenever other information indicates a potential problem

### Resident Questionnaire

Child	ren/Childı	ren's Habits			
	(b) If yes (c) Reco	s, how many? _	Ages?evels, if known	our home? Yes	
2. Loc	cate the roo	oms/areas wher	e each child sleeps	s, eats, and plays.	
Name Child	of	Location of Bedroom	Location of All Rooms Where Child Eats	Primary Location Where Child Plays <u>Indoors</u>	Primary Location Where Child Plays <u>Outdoors</u>
3.	Where ar	re toys stored/ke	ept?_		
4.	Is there furniture	any visible ev, or toys? Yes_	idence of chewed	or peeling paint o	on the wood work,
Famil	ly Use Pat	terns			
5.	Which er	ntrances are use	ed most frequently	? A Side Door	
6.	Which v	vindows are of	bened most freque	ently? All Windows	Excluding Picture
7		in Summer	aanditianava?If va	e where?	Jo X
7.	(Conden	ise willdow all sation often cal	uses paint deterior	s, where? N	<u> </u>
8.	(a) Do ar	ny household m	ember engage in g	ardening? Yes	NoX
	(b) Reco	rd the location	of any vegetable g	arden.	
		you planning at ring? Yes		ivities that will reme	ove grass or ground
9.			usehold cleaned? I	Bi-Weekly	
			ods do you use? S		N V
10.	(b)If ves	where?		g renovations? Yes_	
	(c) Was	building debris	stored in the yard	? If yes, where?	No X
11.	Are you	planning any b	uilding renovation	s? Where? lead-related industry	
12.	(b) If yes	s, where are dir	ty work clothes pla	aced and cleaned?	

### **Building Condition Form**

CONDITION	YES	NO
Roof Missing Parts of Surfaces (tiles, boards, etc.)		X
Roof Has Holes or Large Cracks		X
Gutter or Downspouts Broken		X
Chimney Masonry cracked, bricks loose or missing, obviously out of plumb		X
Exterior or interior walls have obvious large cracks or holes, requiring more than routine painting		X
Exterior siding has missing boards or shingles		X
Water stains on interior walls or ceilings		X
Plaster walls deteriorated		X
Two or more windows or doors broken, missing, or boarded up	X	
Porch or steps have major elements broken, missing, or boarded up	X	
Foundation has major cracks, missing material, structural leans, or visibly unsound		X
Total	2	9

If the "Yes" column has 2 or more checks, the dwelling is considered to be in poor condition for the purposes of a risk assessment. However, specific conditions and extenuating circumstances should be considered before determining final condition of the building and the appropriateness of a lead hazard screen.

Notes:

Overall, the home is in "poor" condition.

- 8. Dwelling Selection Process: N/A
- Analysis of Previous XRF Testing Report: N/A

## Field Sampling Form for Deteriorated Paint

Name of Risk Assessor Jeremy J. Freise
Name of Property Owner <u>Aaron Palmer</u>
Property Address 201 N. Main St. Muldrow, OK 74948
Sampling Protocol Single-Family
Target Dwelling Criteria (Check All That Apply)
Code Violations
X Judged to be in Poor Condition
Presence of 2 or More Children between Ages of 6 Months and 6 Years
Serves as Day-Care Facility
Recently Prepared for Reoccupancy
Random Sampling
None of the above

#### XRF 12/14/2011

Sample Number	Room	Building Component	Laboratory Result (ug/g) or XRF Reading (mg/cm²)
062 ABCD	Interior A	Cabinet Bathroom	1.0 +/- 0.2
065 ABCD	Exterior A	Porch Header	1.7 +/- 0.3
068 ABCD	Exterior A	Wall	4.5 +/- 0.6
069 ABCD	Exterior A	Fascia	3.8 +/- 0.7
070 ABCD	Exterior A	Rafter	1.9 +/- 0.4
071 ABCD	Exterior A	Garage Door	1.9 +/- 0.3
072 ABCD	Exterior A	Garage Door Header	1.7 +/- 0.5
076 ABCD	Exterior B	Window Apron	1.2 +/- 0.4
078 ABCD	Exterior B	Garage Door	1.5 +/- 0.3
079 ABCD	Exterior B	Garage Door Casing	2.6 +/- 0.5
084 ABCD	Exterior D	Wall	1.5 +/- 0.2
085 ABCD	Exterior D	Door	1.5 +/- 0.2
HUD Standard			5,000 ug/g or 1 mg/cm <sup>2</sup>

Sample all layer of paint, not just deteriorated paint layers					
Total Number of Samples This Page 12					
Page1 of1					
Date of Sample Collection 12/14/2011	Date shipped to lab <u>12/15/2011</u>				
Shipped by Jeremy J. Freise	Received by EMSL Analytical, Inc.				
(signature)	(signature)				

# Field Sampling Form For Dust (Single Surface)

Room (Record Name of Room Used by the Owner or Resident)	Surface Type	Is Surface Smooth and Cleanable?	Dimension <sup>1</sup> of Sample Area (inches x inches)	Area (ft²)	Result of Lab Analysis (ug/ft²)
Living Room	Floor	Yes	12 x 12	144 in	<10 ug/ft
Living Room	W/S	Yes		78 in	2400 ug/ft
Bathroom	Floor	Yes	12 x 12	144 in	<10 ug/ft
Bedroom 2	W/S	Yes		78 in	28 ug/ft
Kitchen	Floor	Yes	12 x 12	144 in	<10 ug/ft
Bedroom 1	W/S	Yes		78 in	230 ug/ft
Dining Room	Floor	Yes	12 x 12	144 in	<10 ug/ft
Storage	W/S	Yes		24 in	170 ug/ft
	Name of Room Used by the Owner or Resident)  Living Room  Living Room  Bathroom  Bedroom 2  Kitchen  Bedroom 1  Dining Room Storage	Name of Room Used by the Owner or Resident)  Living Room  Living Room  Bathroom  Bedroom 2  Kitchen  Bedroom 1  Bedroom  Storage  W/S  Surface Type  W/S  Floor  W/S  Floor  Floor  Floor  Floor  W/S  W/S	Used by the Owner or Resident)  Living Room  Floor  Surface Type  Smooth and Cleanable?  Yes  Living Room  W/S  Pes  Bathroom  Floor  Floor  Floor  Yes  W/S  W/S  Yes  W/S  Floor  Floo	Name of Room Used by the Owner or Resident)       Surface Type       Is Surface Smooth and Cleanable?       Dimension of Sample Area (inches x inches)         Living Room       Floor       Yes       12 x 12         Living Room       W/S       Yes         Bathroom       Floor       Yes       12 x 12         Bedroom 2       W/S       Yes         Kitchen       Floor       Yes       12 x 12         Bedroom 1       W/S       Yes         Dining Room       Floor       Yes       12 x 12         Poor       Yes       12 x 12	Name of Room Used by the Owner or Resident)Surface TypeIs Surface Smooth and Cleanable?Dimension¹ of Sample Area (inches x inches)Area (ft²)Living RoomFloorYes12 x 12144 inLiving RoomW/SYes78 inBathroomFloorYes12 x 12144 inBedroom 2W/SYes78 inKitchenFloorYes12 x 12144 inBedroom 1W/SYes78 inDining RoomFloorYes12 x 12144 inStorageW/SYes24 in

<sup>1</sup> Measure to the neares	st 1/8 inch				
Total Number of	f Samples This Page	8			
Page1 of	_1				
Date of Sample	Date of Sample Collection 12/14/2011		Date shipped to lab <u>12/15/2011</u>		
Shipped by	Jeremy J. Freise (signature)	Received by	EMSL Analytical, Inc. (signature)		
HUD Standards (window trough	s: 40 ug/ft² (floors),250 ug is)	g/ft² (interior win	dow sills),400 ug/ft²		

# Field Sampling Form For Soil

(Composite Sampling Only)

Name of Risk Assessor

Jeremy J. Freise

Name of Property Owner

Aaron Palmer

Property Address

201 N. Main St. Muldrow, OK 74948

LOCATION	BARE OR COVERED	LAB RESULTS mg/Kg
Dripline	Covered	370 mg/Kg
		LOCATION COVERED

C-U-+ le the 1/" of soil	
Collect only the ½" of soil	
Total Number of Samples This Page1	
Page1 of1	
Date of Sample Collection 12/14/2011	Date Shipped to lab <u>12/15/2011</u>
Shipped by Jeremy J. Freise	Received by EMSL Analytical, Inc (signature)

Other Sampling Results: N/A 13.

(signature)

#### Part III: Lead Hazard Control Options

14. Lead-Based Paint Policy Statement

#### On File CNEP and Cherokee Nation Housing Rehab

15. Name of Individual in Charge of Lead-Based Paint Hazard Control Program:

#### Cherokee Nation Housing Rehab (George Hubbard)

Recommended Changes to Work Order System and Property Management

The existing work order system is an informal verbal one. If painted surfaces will be disturbed during a particular repair job, the painted surface should be tested to determine if it has lead-based paint on it. If it does (or if testing is not completed), the maintenance worker should take the necessary precautions by wetting down the surface and performing cleanup. If the surface area is large or if the work will generate a significant amount of dust, clearance testing should be completed before residents move back into the room. The table below can be used as a general guide in determining whether maintenance jobs are likely to be high risk or low risk.

When work is assigned, the owner or worker should determine whether or not the job is low or high risk and adopt protective measures as needed.

Table 17.1 (Taken from HUD Guidelines

Summary of Low-and High-Risk Job Designations for Surfaces Known or

Suspected to Have Lead-Based Paint

Job Description	Low Risk	High Risk	
Repainting (includes surface Preparation)		√	
Plastering or wall repair		1	
Window repair		1	
Water or moisture damage repair (repainting and plumbing)		<b>V</b>	
Door repair	1		
Building component replacement		√	
Welding on Painted Surfaces		√	
Door lock repair or replacement	<b>V</b>		
Electrical fixture repair	<b>V</b>		
Floor refinishing		√	
Carpet replacement		1	
Groundskeeping	<b>V</b>		
Radiator leak repair	1		
Baluster repair (metal)		√	
Demolition		√	

High-risk jobs typically disturb more than 2 square feet per room. If these jobs disturb less than 2 square feet, then they can be considered low-risk jobs.

**Table 17.2** 

	Low Risk	High Risk	
Worksite preparation with plastic sheeting (6 mil thick)	Plastic sheet no less than 5 feet immediately underneath work area	Whole floor, plus simple airlock at door or tape door shut	
Children kept out of work area	Yes	Yes	
Resident relocation during work	No	Yes	
Respirators	Probably not necessary*	Recommended	
Protective clothing Note: Protective shoe coverings are not to be worn on ladders, scaffolds, etc.	Probably not necessary*	Recommended	
Personal hygiene (enforced hand washing after job)	Required	Required	
Showers	Probably not necessary	Recommended	
Work practices	Use wet methods, except near electrical circuits	Use wet methods, except near electrical circuits	
Cleaning	Wet cleaning with lead- specific detergent trisodium phosphate or other suitable detergent around the work area only (2 linear feet beyond plastic)	HEPA vacuum/wet wash/HEPA vacuum the entire work area	
Clearance	Visual examination only	Dust sampling during the preliminary phase of the maintenance program and periodically thereafter (not required for every job)	

 Employers must have objective data showing that worker exposures are less than the OSHA Permissible Exposure Limit of 50ug/m3 if respirators and protective clothing will not be provided.

#### 17. Interim Control Options and Estimated Costs

The costs shown below include labor, materials, worker protection, site containment and cleanup. These are only very rough estimates that may not be accurate; a precise estimate should be obtained from a certified lead-based paint abatement contractor. I would be pleased to perform clearance testing after this work has been completed at your request.

Hazard A: Interior A Side Cabinet Bathroom:	Wet Scrape and Repaint
Hazard B: Exterior A Side Porch Header:	Wet Scrape and Repaint
Hazard C: Exterior A Side Wall:	Wet Scrape and Repaint
Hazard D: All Exterior Fascia:	Wet Scrape and Repaint
Hazard E: Exterior A Side Rafter:	Wet Scrape and Repaint
Hazard F: Exterior A Side Garage Door:	Wet Scrape and Repaint
Hazard G: Exterior A Side Garage Door Header:	Wet Scrape and Repaint
Hazard H: Exterior B Side Window Apron:	Wet Scrape and Repaint
Hazard I: Exterior B Side Garage Door:	Wet Scrape and Repaint
Hazard J: Exterior B Side Garage Door Casing:	Wet Scrape and Repaint
Hazard K: Exterior D Side Wall:	Wet Scrape and Repaint
Hazard L: Exterior D Side Door:	Wet Scrape and Repaint

#### 18. Acceptable Abatement Options and Estimated Costs

Hazard A: Interior A Side Cabinet Bathroom: Enclo	ose or Replace
Hazard B: Exterior A Side Porch Header: Encl	lose or Replace
	close or Replace
Hazard D: All Exterior Fascia: End	close or Replace
Hazard E: Exterior A Side Rafter: Encl	ose or Replace
Hazard F: Exterior A Side Garage Door: Encl	ose or Replace
Hazard G: Exterior A Side Garage Door Header: Enclo	se or Replace
Hazard H: Exterior B Side Window Apron: End	close or Replace
Hazard I: Exterior B Side Garage Door: End	close or Replace
Hazard J: Exterior B Side Garage Door Casing: End	close or Replace
Hazard K: Exterior D Side Wall: End	close or Replace
Hazard L: Exterior D Side Door: Enc	lose or Replace

#### 19. Reevaluation and Monitoring Schedule

Each of these treatments will need to be reexamined periodically to make certain that they remain effective and to ensure that new lead-based paint hazards do not appear. The interim controls shown above are less expensive initially, but they may be more expensive in the long run since they need to be reevaluated more frequently. The replacement and paint removal methods are more expensive initially, but do not require any reevaluation.

The owner should monitor the condition of the paint at least annually or if there is some indication that paint might be failing. A professional reevaluation is also needed. The standard schedule for reevaluation the dwelling is shown above.

**Reevaluation:** Standard Reevaluation Schedule 3 contained in the HUD Guidelines applies to this property, since one of the rooms had a dust lead level greater than the standard. Therefore, the dwelling should be reevaluated in 12/27/2012 12 months from now). If no lead-based paint hazards are identified at that time, another reevaluation should be conducted in 12/27/2013 (2 years later). If no lead-based paint hazards are identified at that time, no further reevaluations are needed. However, since lead-based paint may be present in the dwelling, the owner should monitor the condition of all painted surfaces at least annually or whenever other information indicates a potential problem.

#### Part IV: Site Specific Lead Hazard Control Plan

20. Lead Hazard Control Option To Be Implemented in This Property

I recommend abatement options be implemented on all areas with Lead Based Paint.

21. Training Plan for Managers, Maintenance Supervisors and Workers

#### On File at Cherokee Nation Housing Rehab

 Method of Resident Notification of Results of Risk Assessment and Lead Hazard Control Program

#### In Person by Cherokee Nation Housing Rehab

 Signatures (Risk Assessor and Owner), Date and Certificate of Lead-Based Paint Compliance

Owner Signature Date

Certified Risk Assessor Signature

12-27 - 2011 Date

# Certificate of Lead-Based Paint Compliance I hereby certify that on\_\_\_\_\_\_the dwelling located meets the criteria established by the Department of Housing and Urban Development for lead safety. Either no lead-based paint hazards were identified or all lead-based paint hazards have been corrected. Owner Authorized Signature Risk Assessor License # Expiration Date:\_\_\_\_\_ **Cherokee Nation Environmental Programs**

Lead & Metals Chain of Custody

FMSL Order Number(Lab Use Only):

St. Louis. MC
3075-3079 S. Jefferson
St. Louis. MC
3071-3079 S. Jefferson
St. Louis. MC
3071-3079 S. Jefferson
St. Louis. MC
St. Louis. MC
St. Louis. MC
St. Louis. MC
FAX (314)-776-3313



					EMSL-Bill to: Same Different			
Company: Cherokee Nation Environmental Programs				# But to is Different note	instructions in Comments**			
treet: 206 East	Allen Road Tahleguah, OK 74464			Third Party Billing requires wri	ten authorization from third party			
	e): Jeremy J. Freise		Fax: (918) 453	904				
elephone: (918				jeremy-freise@cherokee.org				
roject Name/N	umber: Aaron Palmer							
lease Provide I	Results: Email Purchase Order: 11406	8		State Samples Taken: OK				
	Tun	naround Time (TAT)	Options* -	Please Check				
3 Hou	r   6 Hour   24 H	our 48 Hour	<b>⊠</b> 72 Ho	ır 🔲 96 Hour	1 Week	2 Week		
		in accordance with EMSL's	Terms and Co					
	Matrix	Method		Instrument	Reporting Limit	Check		
Chips mg/cm² % by wt.		SW846-7000B/7420 or AOAC 974.02		rme Atomic Absorption	0.01%			
Air		NIOSH 7082	Fla	me Atomic Absorption	4 μg/filter			
		NIOSH 7105	1 (	Graphite Furnace AA	0.03 µg/filter			
		NIOSH 7300 modifi	ied	ICP-AES	0.5 μg/filter			
Wipe⁴ ⊠ASTM		SW846-7000B/7420		me Atomic Absorption	10 µg/wipe	M		
non ASTM  If no box is checked, non-ASTM Wipe is assumed		SW846-6010B or	С	ICP-AES	0.5 μg/wipe			
TCLP		SW846-1311/7420/SM	3111B Fla	me Atomic Absorption	0.4 mg/L (ppm)			
		SW846-6010B or	С	ICP-AES	0.1 mg/L (ppm)			
Soil		SW846-7000B/7420		me Atomic Absorption	40 mg/kg (ppm)	N N		
		SW846-7421		Graphite Furnace AA	0.3 mg/kg (ppm)			
		SW846-6010B or C		ICP-AES	1 mg/kg (ppm)			
Wastewat	er	SM31118 or SW846-7000B/7420		me Atomic Absorption	0.4 mg/L (ppm)			
		EPA 200.9		Sraphite Furnace AA	0.003 mg/L (ppm)			
		SW846-6010B or	or C ICP-AES		1 mg/kg (ppm)			
Drinking V	vater	EPA 200.9	(	Graphite Furnace AA 0.003				
Other:			Preservat	on Method (Water	):			
Name of S	Sampler:		Signature	of Sampler:				
Sample #	Loca	rtion		Volume/Area Date/Time		Sampled		
01	LIVING ROOM FLOOR		1	144 in	12-14	13-14-11		
O1	LIVING FOOT	···				12-14-11		
09				781~3	19-14	1-11		
09	LIVING Room L	1/5		7812				
03 09	BATHROOM FLOO	1/5 R		7812°	19-14	1-11		
03 04	BATHROOM FLOO BEDROOM & W	1/5 R 1/5		7812° 14412° 7812°	19 - 14	1 - 11		
03 03 04 05	BATHROOM FLOO BEDROOM & W.	1/3 R /-s 2		7812 14412 7812 14412	19 - 15 19 - 15	1 - 11 4 - 11 4 - 11		
03 04 05 06	BATHROOM FLOO BEDROOM & W. KITCHEN FLOOM BEDROOM 1 W.	1/3 R /-s 2		78m <sup>2</sup> 144in <sup>2</sup> 78 in <sup>2</sup> 144 in <sup>3</sup> 78in <sup>3</sup>	19 - 17 19 - 17 19 - 17	1 - 11 4 - 11 1 - 11		
03 03 04 05	BATHROOM FLOO BEDROOM & W. KITCHEN FLOOM BEDROOM 1 W.	1/3 R /-s 2		7812 14412 7812 14412	19 - 14 13 - 14	1 - 11 4 - 11 4 - 11 4 - 11		
OF OF OF OF OF OH OF OF	BATHROOM FLOO BEDROOM & W. KITCHEN FLOOM BEDROOM 1 W.	1/3 R /-s 2	8:301	78m <sup>2</sup> 144in <sup>2</sup> 78 in <sup>2</sup> 144 in <sup>3</sup> 78in <sup>3</sup>	19 - 17 19 - 17 19 - 17	1 - 11 4 - 11 4 - 11 4 - 11		
OF OF OF OF OF OH OF OF	BATHROOM FLOO BEDROOM & W. KITCHEN FLOOD BEDROOM 1 W. nple #'s 01 - 00	1/5 R 1/5 2 1/5	8:30 fm	7812 14412 7812 14412 7812 Total # of Sa	19 - 14 13 - 14	1 - 11 4 - 11 4 - 11 4 - 11		

Page 1 of 2 Pages

led Document - Lead & Metals CCC - LIA F D - 11/29/2009



# Lead & Metals Chain of Custody EMSL Order Number(Lab Use Only):

Sc Louis MO 3025-3029 S. Jefferson St Louis MO 63118 PHONE (314)-577-0150 FAX (314)-776-3313

		FAX (314)-776			
Sample #	Location	Volume/Area	Date/Time Sample		
67	DINING ROOM FLOOR	144 m <sup>9</sup>	12-14-11		
08	STORAGE ROOM W/S	2410	13-14-11		
09	Soil DRIPLINE	50 mL	12-14-11		
			Ì		
sments/Special	Instructions:		1		

Controlled Document - Level & Metalis COC - UR-1 0 - 11/23/2009

Page 2 of 2 Pages



#### EMSL Analytical, Inc.

3029 S. Jefferson, Saint Louis, MO 63118

Phone: (314) 577-0150 Fax (314) 776-3313 Email samtlourslab@emsl.com

Attn: Jeremy Freise

Cherokee Nation Environmental Programs 206 East Allen Road

Tahlequah, OK 74464

Customer ID:

CHER25

Customer PO.

114068

Received.

12/19/11 12:40 PM

EMSL Order

EMSL Proj:

391109678

Fax:

Phone: (918) 453-5370

Project: Aaron Palmer

#### Test Report: Lead in Dust by Flame AAS (SW 846 3050B\*/7000B)

Lab ID:	Analyzed	Area Sampled	RDL	Lead Concentration	Notes
0001	12/22/2011	144 in²	10 µg/ft²	<10 µg/ft²	
Client S	ample 01				Collected:
0002	12/22/2011	78 in²	92 µg/ft²	2400 µg/ft²	
Client Se	ample 02				Collected:
0003	12/22/2011	144 in²	10 µg/ft²	<10 µg/ft²	
Client S	ample 03				Collected:
0004	12/22/2011	78 in <sup>2</sup>	18 µg/ft²	28 µg/ft²	
Client S	ample 04				Collected:
0005	12/22/2011	144 in²	10 µg/ft²	<10 µg/ft²	
Client S	ample 05				Collected:
0006	12/22/2011	78 in²	18 μg/ft²	230 µg/ft²	
Client S	ample 06				Collected:
0007	12/22/2011	144 in²	10 µg/ft²	<10 µg/ft²	
Client S	ample 07				Collected:
0008	12/22/2011	24 in²	60 µg/ft²	170 µg/ft²	
Client S	ample 08				Collected:

Initial report from 12/22/2011 13:36:58

HALL W. Sin

Jeff Siria, Laboratory Manager or other approved signatory

Reporting limit is 10 ug/wipe. The QC data associated with these sample results included in this report meet the method quality control requirements, unless specifically indicated otherwise. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities.

\* slight modifications to methods applied Samples received in good condition unless otherwise noted. Quality Control Data associated with this sample set is within acceptable limits unless otherwise noted.

Samples analyzed by EMSL Analytical, Inc. Saint Louis, MO AlHA-LAP, LLC ELLAP 102636



#### EMSL Analytical, Inc.

3029 S. Jefferson, Saint Louis, MO 63118

Phone: (314) 577-0150 Fax: (314) 775-3313 Email: saintlouislab@emsLcon

Attn: Jeremy Freise

Cherokee Nation Environmental Programs

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Phone: (918) 453-5370

Project: Aaron Palmer

Fax:

Customer ID:

CHER25

Customer PO: 114068

Received:

12/19/11 12:40 PM

EMSL Order

391109679

EMSL Proj:

#### Test Report: Lead in Soils by Flame AAS (SW 846 3050B\*/7000B)

Lab ID:	Analyzed	RDL	Lead Concentration	Notes
0001	12/21/2011	40 mg/Kg	370 mg/Kg	
Client S	ample 09			Collected:

Initial report from 12/22/2011 13:39:17

Aller H Sin

Jeff Siria, Laboratory Manager or other approved signatory

Reporting limit is 40 mg/kg. The QC data associated with these sample results included in this report meet the method quality control requirements, unless specifically indicated otherwise. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities.

\* slight modifications to methods applied Samples received in good condition unless otherwise noted. Quality Control Data associated with this sample set is within acceptable limits, unless otherwise noted

Samples analyzed by EMSL Analytical, Inc. Saint Louis, MO AIHA-LAP, LLC ELLAP 102636