

CHEROKEE NATION

Environmental Programs



LEAD-BASED PAINT CLEARANCE TEST

PARTICIPANT: WICKLIFFE, SANDRA

PREPARED BY: LOGAN GIRTY, ENVIRONMENTAL SPECIALIST I

REQUESTED BY: HACN HOUSING REHABILITATION – GEORGE HUBBARD

GENERAL INFORMATION

Date of Clearance Inspection: December 1, 2016

Participant Name:

Name: Sandra Wickliffe
Phone: 918-955-6928 or 918-859-5427
Address: 5957 E King Pl, Tulsa, OK 74115
Coordinates: 36.168898 N°, -95.909424 W°
Year of Home Construction: 1953

Clearance Examiner:

Logan Girty, Environmental Specialist I
Cherokee Nation Environmental Programs
PO BOX 948, Tahlequah, OK 74465
918.453.5009 Ext. 6140
Oklahoma Inspector/Risk Assessor, OKRASR13822
Cherokee Nation Inspector/Risk Assessor, CNRASR00037

Cherokee Nation Environmental Programs
PO Box 948, Tahlequah, OK 74465
918.453.5000
Oklahoma Firm: OKFIRM11198
Cherokee Nation Firm: CNFIRM00001

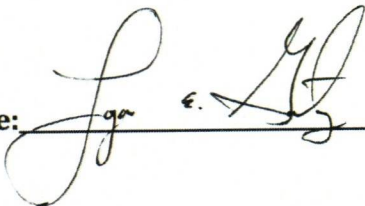
Laboratory:

EMSL Analytical, Inc
AIHA-ELLAP 102636
3029 S. Jefferson
Saint Louis, MO 63118
314.577.0150

SUMMARY OF CLEARANCE RESULTS:

Based on a visual assessment and dust sampling on December 1, 2016, dust-lead hazards, as defined by federal standards were not found.

Signature:



Date:

12/6/2016

SUMMARY OF HAZARD REDUCTION ACTIVITIES

Start and Completion Date: Completed 11/29/16 @ 5:00 PM

Firm Information:

Connelly Bros Construction
454381 E 993 Rd, Vian, OK
OKFIRM13378
Supervisor: Michael Connelly, OKSUVR13377

Description of Hazard Reduction Activities and Areas Addressed:
(Information in this section provided by Cherokee Nation Housing Rehabilitation Department)

| Location | Activity |
|----------------------------------|--|
| Exterior | Replace Front Entry Door & Door Casing |
| | |
| | |
| Description of Work: | Prior to initiating work, install one layer of six-mil plastic on ground/floor and doorways of bedroom, and on floor from bedroom to exterior entrance and exit doorway. HEPA/WET/HEPA to reduce the elevated lead dust levels on the bedroom floor, and Hepa-vac plastic to remove leaded dust. Remove six-mil plastic from lead activity areas. Seal and tape all laps and joints. Debris shall be stored in locked trailer or dumpster until it can be taken to a code legal dump site. |
| Occupant Protection Plan: | N/A – Not Abatement Work |

On-Going Lead Based Paint Monitoring Requirements:

CN Housing Rehab provides services for eligible Cherokee Citizen's privately owned homes. The NAHASDA funding is from year to year and none can be set aside for the follow up monitoring for Interim Controls of the Lead Based Paint. Enclosures and component replacement is chosen, when possible, to remove the lead hazard because it is in the best interest for the participant to prevent lead based paint and dust hazards.

VISUAL ASSESSMENT – LEAD HAZARD CLEARANCE EXAMINATION

| Work Area | Deteriorated Paint | Debris | Visible Dust | Notes | Pass/Fail |
|---------------|--------------------|--------|--------------|-------|-----------|
| Porch Floor | No | No | No | | Pass |
| Entry Floor | No | No | No | | Pass |
| Window Trough | No | No | No | | Pass |
| Soil | No | No | No | | Pass |

DUST LEAD HAZARD CLEARANCE EXAMINATION:

| Sample # | Location | Surface | Dimensions of sample area (inch) | µg /ft ² | Pass/Fail |
|----------|-------------|---------------|----------------------------------|---------------------|-----------|
| 01 | Porch | Floor | 12 x 12 | 14 | Pass |
| 02 | Ext. Side A | Window Trough | 1.5x18 | <53 | Pass |
| 03 | Entryway | Floor | 12 x12 | <10 | Pass |
| | | | | | |

HUD/EPA Clearance Standards for Lead in Dust: Floors 40µg /ft², Interior window sill 250µg /ft², Window trough: 400µg /ft²

SOIL LEAD HAZARD CLEARANCE EXAMINATION:

| Sample # | Location | Bare or Covered | µg /g | Pass/Fail |
|----------|----------|-----------------|-------|-----------|
| 05 | Dripline | Bare | 290 | Pass |
| | | | | |

HUD/EPA Clearance Standards for Lead in Soils: Play Areas 400 µg /g, all other areas 1200 µg /g

**EMSL Analytical, Inc.**

3029 S. Jefferson, Saint Louis, MO 63118

Phone/Fax: (314) 577-0150 / (314) 776-3313

<http://www.EMSL.com>saintlouislab@emsl.com

| | |
|-------------|-----------|
| EMSL Order: | 391611734 |
| CustomerID: | CHER25 |
| CustomerPO: | 194230 |
| ProjectID: | |

Attn: **Logan Girty**
Cherokee Nation Environmental Programs
206 East Allen Road
Tahlequah, OK 74464

Phone: (918) 453-5370
 Fax:
 Received: 12/05/16 8:45 AM
 Collected:

Project: **Sandra Wickliffe****Test Report: Lead in Dust by Flame AAS (SW 846 3050B/7000B)***

| <i>Client SampleDescription</i> | <i>Collected</i> | <i>Analyzed</i> | <i>Area Sampled</i> | <i>RDL</i> | <i>Lead Concentration</i> |
|---------------------------------|------------------|-----------------|---------------------|-----------------------|---------------------------|
| 01 391611734-0001 | | 12/5/2016 | 144 in ² | 10 µg/ft ² | 14 µg/ft ² |
| 02 391611734-0002 | | 12/5/2016 | 27 in ² | 53 µg/ft ² | <53 µg/ft ² |
| 03 391611734-0003 | | 12/5/2016 | 144 in ² | 10 µg/ft ² | <10 µg/ft ² |

Jeff Siria, Laboratory Manager
 or other approved signatory

*Analysis following Lead in Dust by EMSL SOP/ Determination of Environmental Lead by FLAA. Reporting limit is 10 ug/wipe. ug/wipe = ug/ft² x area sampled in ft². 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 (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. The lab is not responsible for data reported in µg/ft² which is dependent on the area provided by non-lab personnel. The test results contained within this report meet the requirements of NELAC unless otherwise noted. "<" (less than) results signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements unless specifically indicated otherwise. Definitions of modifications are available upon request.
 Samples analyzed by EMSL Analytical, Inc. Saint Louis, MO AIHA-LAP, LLC-ELLAP Accredited #102636

Initial report from 12/05/2016 13:10:33

**EMSL Analytical, Inc.**

3029 S. Jefferson, Saint Louis, MO 63118
 Phone/Fax: (314) 577-0150 / (314) 776-3313
<http://www.EMSL.com> saintlouislab@emsl.com

EMSL Order: 391611733
 CustomerID: CHER25
 CustomerPO: 194230
 ProjectID:

Attn: **Logan Girty**
Cherokee Nation Environmental Programs
206 East Allen Road
Tahlequah, OK 74464

Phone: (918) 453-5370
 Fax:
 Received: 12/05/16 8:45 AM
 Collected:

Project: **Sandra Wickliffe**

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

| <i>Client SampleDescription</i> | <i>Collected</i> | <i>Analyzed</i> | <i>RDL</i> | <i>Lead Concentration</i> |
|---------------------------------|------------------|-----------------|------------|---------------------------|
| 04 391611733-0001 | | 12/5/2016 | 40 mg/Kg | 290 mg/Kg |

Jeff Siria, Laboratory Manager
 or other approved signatory

*Analysis following Lead in Soil/Solids by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 40 mg/kg based on the minimum sample weight per our SOP. 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. Samples received in good condition unless otherwise noted. Results reported based on dry weight. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements unless specifically indicated otherwise. Definitions of modifications are available upon request.
 Samples analyzed by EMSL Analytical, Inc. Saint Louis, MO AIHA-LAP, LLC-ELLAP Accredited #102636

Initial report from 12/05/2016 15:28:24

EMSL Analytical, Inc.
3029 S. Jefferson



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS + TRAINING

Lead (Pb) Chain of Custody
EMSL Order ID (Lab Use Only):

391611733

St. Louis, MO 63118
PHONE: (314)-577-0150
FAX: (314)-776-3313

| | | | | | |
|--|--|---|--|------------------|-------------------------------------|
| Company: Cherokee Nation Environmental Programs | | EMSL-Bill to: <input type="checkbox"/> Different <input checked="" type="checkbox"/> Same <small>If Bill to is Different note instructions in Comments**</small> | | | |
| Street: 206 E. Allen Rd | | Third Party Billing requires written authorization from third party | | | |
| City: Tahlequah | State/Province: OK | Zip/Postal Code: 74464 | Country: United States | | |
| Report To (Name): Logan Girty | | Telephone #: 918-772-8346 | | | |
| Email Address: logan-girty@cherokee.org | | Fax #: 918-453-6140 | Purchase Order: 194230 | | |
| Project Name/Number: SANDRA WICKLIFFE | | Please Provide Results: <input type="checkbox"/> FAX <input checked="" type="checkbox"/> E-mail <input type="checkbox"/> Mail | | | |
| U.S. State Samples Taken: OK | | CT Samples: <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt | | | |
| Turnaround Time (TAT) Options* - Please Check | | | | | |
| <input type="checkbox"/> 3 Hour | <input checked="" type="checkbox"/> 6 Hour | <input type="checkbox"/> 24 Hour | <input type="checkbox"/> 48 Hour <input type="checkbox"/> 72 Hour <input type="checkbox"/> 96 Hour <input type="checkbox"/> 1 Week <input type="checkbox"/> 2 Week | | |
| <small>*Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide</small> | | | | | |
| Matrix | | Method | Instrument | Reporting Limit | Check |
| Chips <input type="checkbox"/> % by wt. <input type="checkbox"/> mg/cm ² <input type="checkbox"/> ppm | | SW846-7000B | Flame Atomic Absorption | 0.01% | <input type="checkbox"/> |
| Air | | NIOSH 7082 | Flame Atomic Absorption | 4 µg/filter | <input type="checkbox"/> |
| | | NIOSH 7105 | Graphite Furnace AA | 0.03 µg/filter | <input type="checkbox"/> |
| | | NIOSH 7300 modified | ICP-AES/ICP-MS | 0.5 µg/filter | <input type="checkbox"/> |
| Wipe* <input checked="" type="checkbox"/> ASTM non ASTM <input type="checkbox"/> *if no box is checked, non-ASTM Wipe is assumed | | SW846-7000B | Flame Atomic Absorption | 10 µg/wipe | <input checked="" type="checkbox"/> |
| | | SW846-6010B or C | ICP-AES | 1.0 µg/wipe | <input type="checkbox"/> |
| | | SW846-7000B/7010 | Graphite Furnace AA | 0.075 µg/wipe | <input type="checkbox"/> |
| TCLP | | SW846-1311/7000B/SM 3111B | Flame Atomic Absorption | 0.4 mg/L (ppm) | <input type="checkbox"/> |
| | | SW846-1131/SW846-6010B or C | ICP-AES | 0.1 mg/L (ppm) | <input type="checkbox"/> |
| Soil | | SW846-7000B | Flame Atomic Absorption | 40 mg/kg (ppm) | <input checked="" type="checkbox"/> |
| | | SW846-7010 | Graphite Furnace AA | 0.3 mg/kg (ppm) | <input type="checkbox"/> |
| | | SW846-6010B or C | ICP-AES | 2 mg/kg (ppm) | <input type="checkbox"/> |
| Wastewater Unpreserved <input type="checkbox"/> Preserved with HNO ₃ pH < 2 <input type="checkbox"/> | | SM3111B/SW846-7000B | Flame Atomic Absorption | 0.4 mg/L (ppm) | <input type="checkbox"/> |
| | | EPA 200.9 | Graphite Furnace AA | 0.003 mg/L (ppm) | <input type="checkbox"/> |
| | | EPA 200.7 | ICP-AES | 0.020 mg/L (ppm) | <input type="checkbox"/> |
| Drinking Water Unpreserved <input type="checkbox"/> Preserved with HNO ₃ pH < 2 <input type="checkbox"/> | | EPA 200.9 | Graphite Furnace AA | 0.003 mg/L (ppm) | <input type="checkbox"/> |
| | | EPA 200.8 | ICP-MS | 0.001 mg/L (ppm) | <input type="checkbox"/> |
| TSP/SPM Filter | | 40 CFR Part 50 | ICP-AES | 12 µg/filter | <input type="checkbox"/> |
| | | 40 CFR Part 50 | Graphite Furnace AA | 3.6 µg/filter | <input type="checkbox"/> |
| Other: | | | | | <input type="checkbox"/> |
| Name of Sampler: Logan Girty | | | Signature of Sampler: <i>Logan Girty</i> | | |
| Sample # | Location | Volume/Area | Date/Time Sampled | | |
| 01 | Porch Floor | 144 sq in | 12/1/16 11 AM | | |
| 02 | Window Trough | 27 sq in | 12/1/16 11 AM | | |
| 03 | Entryway Floor | 144 sq in | 12/1/16 11 AM | | |
| 04 | Soil | | 12/1/16 11 AM | | |
| Client Sample #'s | | -01 thru 04 | Total # of Samples: | | 4 |
| Relinquished (Client): | Logan Girty | Date: | 12/1/16 | Time: | 4:00 PM |
| Received (Lab): | <i>Logan Girty</i> | Date: | 12/5/16 | Time: | 8:45 F |
| Comments: | | | | | |
| 8100 33059603 | | | | | |