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Lead-Based Paint Inspection And Risk Assessment Report

For The Dwelling Located at:

Inks Dam National Fish Hatchery Quarters 66 Route 2 Burnet, TX 78611 (512) 793 2474

Prepared For:

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And

independent Special Safety evaluations, inc.—a Lead Firm US EPA Certification No. NMF 003

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Part I: Executive Summary

iS²e, inc. conducted a Lead-Based Paint (LBP) Inspection (PI) and LBP Risk Assessment (RA) at Quarters No. 66, Inks Dam National Fish Hatchery, Burnet, TX 78611 on August 30, 2000. The home was occupied at the time of this inspection.

Quarters No.66 is a single story, pitched-roofed, frame and concrete block, single-family home with 3 bedrooms. The home faces to the east. Original construction occurred in 1957, comprising approximately 1182 ft². The home presently houses a single, adult, male, full-time NFH employee.

Lead-based paint Inspection results:

Most of the exterior white paint on this home on the wood surfaces is in "poor" or "unsatisfactory" condition and in need of repainting. Most of the exterior white paint on the concrete block walls is in "fair" condition, and also should be repainted sooner rather than later.

Most of the interior paint in this home is rated to be in "good" condition. The amount of lead and concentrations in the interior of this home is indicative of 1950s or early 1960s interior paint.

Lead-based paint Risk Assessment results:

A. Recommended Solutions for Lead Hazards Identified:

1. Exterior Lead Paint Hazard #1:

a. The exterior white paint on the overhead garage door was rated to be in "unsatisfactory" condition, and contains more than 10ft² of LBP. Based on the age and condition of the door, it will be cost effective to replace the door. The LBP on the Garage doorjambs should be chemically stripped and the jambs then primed and repainted.

B. Estimated Costs to Repair Lead Hazards Identified:

1. Repair of Jambs and Replacement Cost for the Garage Door—Hazard #1:

a. Cost estimate to replace the Garage Door is \$600.00. Cost estimate to repair the Garage doorjambs is \$200.

The U.S. Fish and Wildlife Service is currently developing formal policy and guidance on training for managers, employees and residents. The training will include general lead awareness, work practice requirements, OSHA lead in construction standards, and U.S. Fish and Wildlife Service policy requirements concerning lead.

For any activity that would disturb surfaces identified as having lead, notify Terry Clayton with the Environmental and Facility Compliance Office at (303) 984-6867 or Bernie Freeman, the Regional Compliance Officer, at (505) 984-7956 prior to beginning work. Any construction activities that affect the preceding paint films (including sanding and demolition) must be initiated by workers wearing respiratory protection, and who have received proper training in the handling of lead contaminated materials.

Part II: Lead-Based Paint Definitions and Standards

A. Definitions:

1. Lead-Based Paint Inspection—defines and reports on the exact location of any/all painted surfaces that contain LBP by the HUD/EPA Interim Standard*.

*Note

The term "Standard" is used interchangeably with "Interim Standard". All of the HUD *Guidelines* Standards and EPA's <u>Work Practice Standards</u> are, in fact, Interim Standards, meaning that they may be subject to regulatory change with new data that supports a change to the "Standard". HUD's 1012 and 1013 Regulation alters the exterior damaged paint "Standard" from 10ft² to 20ft². EPA's TASCA 403 Regulation, when published in final form, will alter the 400PPM soil "Standard" (limit) to an "Area of Concern" (vice a limit). "Standards" can also be "action levels", and in many cases are "action levels".

- 2. Lead-Based Paint Risk Assessment—A Risk Assessment is an onsite investigation of a residential dwelling for Lead-Based Paint (LBP) "hazards", that includes, but may not be limited to, a visual inspection, limited environmental samplings (assays) of deteriorated paint**, soil and dust. The assays may be accomplished via XRF or laboratory analysis of paint chip samples, or a combination of both. The Risk Assessment will include a detailed report that identifies potential LBP "hazards"; controls (repair/replacement) associated with those "hazards", and provide monitoring recommendations when appropriate. In particular, the Risk Assessment is designed to identify LBP "hazards" that include:
 - Deteriorated LBP (chipped, flaking, cracking, chalking, etc.),
 - LBP contaminated dust, soil and
 - LBP involving accessible (to children), friction (rubbing), or impact (slamming) surfaces that may have already, or may, in the future, damage a lead painted surface.

During the Risk Assessment, if any painted surfaces are noted to be damaged, then those surfaces are tested for lead content. Dust assays are taken at "key" locations that follow airflow patterns within the home in order to determine if lead is, or has migrated into or within the home.

- 3. Lead-Based Paint Ratings—iS2e, inc. uses a four scale paint rating system as follows:
 - **Good**—Paint that is "new" or still has much of its "life" remaining. This rating requires no action by homeowner.
 - Fair—Paint that is within 6-12 months of failure based on your iS2e, inc. Risk Assessor's estimate. Paint requires little more than cleaning the surface prior to repainting. Homeowner may save considerable expense by applying another stabilizing coat of paint during the next 6-12 months.
 - **Poor**—Paint that is "cracked or damaged such that its water tight integrity is compromised. Paint and/or substrate may require some repair prior to repainting.
 - **Unsatisfactory (Unsat)**—Paint that is peeling such that the substrate beneath the paint is visible. Paint and/or substrate will usually require some repair prior to repainting. Homeowner may expect some wood component replacement due to "dry-rot", or metal component repair due to "rust".

B. Standards:

- **1. HUD/EPA's Lead-Based Paint Standard**—defines LBP as ≥1.0 mg/cm² (or 0.5% by weight).
- 2. Lead-Based Paint Hazard—is, by HUD/EPA Standard:
 - ≥2ft², interior LBP rated "poor" or "unsat" by your iS2e, inc. Risk Assessor.
 - ≥10ft², exterior LBP rated "**poor**" or "**unsat**" by your **iS2e**, **inc. Risk Assessor**.

(Note: HUD's 1012/1013 Regulation will increase the affected area to 20ft² effective 15 September 2000.)

- **3. Lead-Based Paint Dust Hazard**—is, by HUD/EPA Standard, ("swipe") dust assay values determined by laboratory testing:
 - Floors (hard surfaced and carpeted)—≥100 μg/ft² (Note: carpeted floors will probably be changed to an "area of concern", vice a limit, with EPA's TASCA 403 Regulation, when finalized.)
 - Interior window sills ≥500 µg/ft²
 - Window troughs (or wells) —≥800 µg/ft²
- 4. Lead Contaminated Bare Soil Hazard—is, by HUD/EPA Standard:
 - Bare Soil—≥400 ppm, for concentrated children's play areas (e.g. fenced back yards, schoolyards, playgrounds, ball fields, etc.) and vegetable gardens, requiring interim controls or abatement.
 (Note: this limit will probably be changed to an "area of concern", vice a
 - limit, with EPA's TASCA 403 Regulation, when finalized.)
 Bare Soil—≥2000 ppm, for all other residential bare soils, requiring interim controls or abatement.
 - Bare Soil—≥5000 ppm, requires abatement.

5. OSHA Standard—is any level of airborne lead. The "action level" is 30 μ g (micrograms) per M³ (meter of air cubed) over an 8 hour, time-weighted-average (twa). This level will drive personnel protective equipment (PPE), such as respirators, coveralls, shower facilities, etc. The OSHA PEL (permissible elevation level) is 50 μ g/M³ (twa). This level will add medical monitoring, increased respirator capability, etc. OSHA is concerned with airborne lead and its effect upon the renovation/abatement worker. When LBP surfaces will be disturbed during renovation, especially in small interior spaces (closets, small bathrooms, etc.), the contractor should have the space monitored with a testing device that will alarm when the "action level" is triggered.

OSHA has identified several activities (e.g. manual demolition, manual scraping, manual/power sanding, heat gun applications, general cleanup, power tool cleaning with dust collection systems, and spray painting) that pose varying levels of potential lead exposure to workers disturbing lead-containing paint. Estimated exposure levels of lead are founded in the activity itself, rather than the concentrations of lead present in the paint. For example, paints that contain 0.5% versus 15% of lead by weight or 0.8 mg/cm² versus 3.5 mg/cm² of lead in paint could present the same levels of potential exposure to workers.

In other words, while HUD/EPA define LBP as paint containing lead at concentrations $\geq 1.0 \text{ mg/cm}^2$, the OSHA Standard for airborne lead dust anticipates that as little as 0.1 or 0.2 mg/cm² of lead in paint could present a hazardous condition when disturbed, causing exposure for workers. Because of this, **iS2e**, **inc.** provides the owner with a table (Part IV, A) showing all of the components that contain LBP by the HUD/EPA Standard; and a table (Part IV, B) showing all of the components that contain any lead between 0.1 and 0.9 mg/cm².

Part III: Lead-Based Paint Inspection by XRF

The EDAX (dba SCITEC), Inc., MAP 4 Spectrum Analyzer (XRF serial number M4-1375) used for this survey irradiates the paint on a given surface causing the lead in the paint, if present, to emit a characteristic frequency of X-ray radiation. The instrument identifies and counts these x-rays to determine a lead concentration, and reports this concentration in mg/cm².

The XRF's (X-ray Fluorescence) source used to excite the lead is a 12-millicurie Cobalt₅₇ gamma radiation pellet housed and shielded within the instrument. This particular XRF underwent its annual resource and re-calibration by the factory in Kennewick, WA in October 1999.

The XRF provides readings of "K-shell" (high energy) and "L-shell (low energy) lead. The K-shell is the value that determines the amount of lead in the paint. The L-shell gives the operator information on the depth of the lead painted surface.

Your **iS²e Risk Assessor** uses either the "Confirm" or the "Unlimited" Modes of XRF operation during any Paint Inspections (PI) or Risk Assessments (RA). These modes are the most accurate and time consuming of the four modes (Screen, Test, Confirm, and Unlimited) within the instrument. The operator holds the trigger when sampling using the Unlimited Mode, until he/she gains approximate 2σ (sigma) worth of data on any given surface. This provides approximately 95% accuracy. The instrument is calibrated 5 times and averaged prior to leaving the office, calibrated at the job site, and re-calibrated approximately every hour thereafter, including job completion.

As can be seen from the Daily Calibration Log, an appendix to this report, M4-1375 remains within 0.10 mg/cm² of the required 1.39mg/cm² factory calibration block.

The SCITEC Map 4 XRF has an "inconclusive" software" signal built into the instrument from 0.9 to 1.2 mg/cm². Values below this amount are, by HUD/EPA Standard, not lead-based paint (LBP). Values above this range are clearly LBP. The operator can take a paint chip sample for laboratory analysis in order to prove the accuracy of the reading when the reading is in this "inconclusive range", or make a conservative determination that the "inclusive" value contains LBP.

Because the XRF has a capability (calibration accuracy) of $\pm 0.1 \text{mg/cm}^2$ when operating in the Confirm and Unlimited modes, **iS**²**e**, **inc.** has chosen to consider all readings (values) equal to or above 0.9 mg/cm² to contain LBP. This corporate decision is based on 5 years of RA and PI experience. This determination saves the homeowner the laboratory analysis cost of multiple paint-chip samples, and does not adversely mark or harm any painted surface on the property (e.g. banister, windowsill, baseboard, door or window trim, etc.), often requiring expensive/time consuming repair.

When reading the XRF Preliminary Report, an addendum to this report, all negative K and L-shell values should be interpreted as "zero". All K-shell XRF values above 0.1, but less than 0.9 mg/cm² contain some lead, but the lead content is below the HUD/EPA standard defining LBP. All values at or above 0.9 mg/cm² are considered, by **iS²e**, **inc.**, to be LBP.

The SCITEC Map 4 XRF has, built into the software, substrate correction values that prevent the operator from having to make the corrections manually. The "Unlimited" mode of operation will correct properly, even if the operator makes an incorrect coding error (e.g. setting sheetrock when the substrate is actually plaster, etc.).

The 12-millicurie Cobalt₅₇ gamma radiation pellet is so weak, even when first delivered from the factory, that it will not cause ionizing radiation to any surface or component tested. In other words, once the XRF is removed from the home, there is no lingering radiation, or any evidence that the XRF has ever been there.

Reading the Reports contained in the Appendices

1. Raw XRF Data:

Includes the coded address for the site, calibration data (both daily, and site beginning and ending), as well as assay data that has been collected at the home, apartment or day-care center.

2. Preliminary XRF:

Gives K & L-Shell XRF readings in mg/cm². The federal "action-level", always taken against the K-shell, is 1.0 mg/cm². The XRF has an "inconclusive" range of -0.1 to +0.2 centered about the "action-level". Should this "inconclusive" value occur, your Risk Assessor could remove a small (approx. 2x2 inch) sample of the painted surface for laboratory analysis, or declare the component to contain LBP. Declaring a component that contains 0.90 mg/cm² to contain LBP is a conservative and cost effective method of evaluating LBP.

Room # refers to the number of "like" rooms (e.g. 3 bedrooms). Wall # is conventional, where wall #1 is the wall toward the street (front or address side of the dwelling), and the other walls are numbered clockwise. Wall #3 is away from the street. Type refers to the mode of analysis that the SCITEC MAP 4 is operating under (e.g. screen, test, confirm, and unlimited). **iS²e, inc.** uses the confirm and unlimited modes exclusively, carrying the analysis to 2σ (95% confidence level) in accordance with EPA and HUD standards.

Numerous interior, wooden, concrete, tile, and sheetrock/plaster dwelling components are checked. These include, but are not limited to, exterior walls, wood trim, window trim and frames, door trim, frames and jambs, roof trim and soffit, interior walls, hard surface flooring, including tile floors, baseboard, tub and shower surrounds, counter tops and back splashes, cabinets, windowsills, doors, and door jambs, etc.

3. Daily Calibration:

Includes the Daily start calibrations (normally 5) with times, and includes the site "start" and "stop" calibrations, as well as any others taken against a known "assayblock" provided to iS^2e , inc. by the SCITEC Corporation. The MAP 4 must always remain within ±0.1 of the factory test calibration for that specific serial numbered MAP. It will also typically remain within ±0.1 of the five Daily averages (column 6).

XRF MAP IV, serial number M4-1375 has had an exceptional record for accuracy. It almost always calibrates at or very near the 1.39 mg/cm² certified SCITEC assay block, even early in the workday and increases its accuracy as the device warms.

This XRF device was resourced and delivered by FEDEX from the SCITEC factory in Kennewick, WA, 1000, 10-19-99.

4. HUD Single Family Housing Report:

This report is included for Paint Inspections (PI) because the HUD *Guidelines* requires that PIs test interior and exterior walls four times (all four walls within each room group or equivalent). Additionally, this report contains current surface paint color, where the Preliminary XRF Report does not.

5. Assaigai Laboratory Report:

Dust—The report gives "swipe" assay results in $\mu g/ft^2$. The dust assay values give the **iS²e Risk Assessor** a valid method for determining whether any lead-based paint has deteriorated to a level that may have already, or will in the future, contribute to the contamination of the dwelling, and whether that dust, if contaminated, has migrated within the dwelling.

Bare Soil—The report gives soil sample values in PPM (parts per million or $\mu g/g$). Dripline soil is that soil within 3-4 feet of the foundation of the home or apartment. It is often contaminated to a greater extent than yard soil, especially for older dwellings that contain significant exterior LBP. Yard soil is normally selected from areas that have evidence of the presence of children, or from vegetable gardens.

6. Lead-Based Paint—The "do's" and 'don'ts" of LBP repair:

When painted dwelling components contain LBP above the federal "action-levels"; **DO NOT** allow repairs to include:

- a) Dry scraping or sanding, including machines without proper vacuum collection capability
- b) Unconfined hydra-blasting
- c) Open-flame burning or torching
- d) Abrasive blasting or sand blasting without using HEPA vacuum exhaust tools
- e) Heat-guns that operate above 1100°F
- f) HUD does not recommend using methylene chloride chemical strippers

When painted areas contain LBP above the federal "action-levels"; **DO** require repairs to include:

- a) Use of HEPA filtering equipment attached to the sanding machines
- b) Use of HEPA filtering vacuums to clean-up the area that has been scraped or sanded
- c) Containment of the affected areas (e.g. no high winds)
- d) If doors (exterior or interior) are removed to repair jambs, then seal off the residence of affected area using plastic sheeting and tape. (e.g. if repairing
- e) a jamb on an exterior door leading to the kitchen, hang plastic sheeting with a "full-seal" tape on the inside of the door to prevent the LBP dust from migrating into the kitchen.)
- f) Disposal of any contaminants and contaminated components using proper disposal methods.

7. Non-Professional Repair of LBP Components:

It is not often legal to repair, abate, or apply interim controls to LBP "hazards" or painted components that contain LBP to rental dwellings, or homes that house members not of your immediate family, unless you are trained to do so. However, it is permissible to make repairs when following (exactly) the written instructions of a certified LBP Risk Assessor. Those items that you can accomplish personally, involve:

- planting sod or placing other ground covering such as rock, over bare soil,
- painting surfaces that have been prepared professionally, or
- removing components that will not disturb LBP, such as doors, and then having them disposed of properly if they contain LBP.

8. <u>Risk Assessments versus Paint Inspections:</u>

Please remember a Risk Assessment does not test or identify all painted surfaces. It only identifies those painted surfaces that were unsound (rated "poor" or "unsat" by your **is²e Risk Assessor**) unless specifically noted otherwise in the reports. A Paint Inspection, however, tests all "like" painted surfaces. "Like" painted surfaces are those that your **iS²e Risk Assessor or Paint Inspector** estimates to have the same or similar paint history, and clearly contain pre-1978 paint.

9. <u>Title X's Disclosure Requirements:</u>

A copy of this report must be provided to new lessees (tenants), providing the lease exceeds 100 days, and to purchasers of this property under Federal law (24 CFR part 35 and 40 CFR part 745) before they become obligated under a lease or sales contract. The complete report must also be provided to new purchasers and it must be made available to new tenants.

Landlords (lessors) and sellers are also required to distribute an educational pamphlet approved by the U.S. Environmental Protection Agency and include standard warning language in their leases or sales contracts to ensure that parents have the information they need to protect their children from lead-based paint hazards.

Any repairs specified by this report, or accomplished on any of the leaded (Pb) surfaces identified in this report (See Table in Part IV, Sub-part A) should be documented on this report, attaching receipts to the report, maintaining dates, and any notes directly on the report. This report should be preserved and maintained with this dwelling. It will serve present and future homeowners with proper lead (Pb) disclosure as required by Title X, Section 1018 of Public Law 102-550.

10. Contacting your iS²e Risk Assessor:

If owner or agent has any questions concerning the findings or ramifications of this report, please call your iS^2e Risk Assessor at 823 6411 (Albuquerque), or 1 888 828 0607 outside of Albuquerque.

Part IV: Lead-Based Paint Inspection Results

A. Lead-based Paint (LBP) Components—Those items that contain lead at or above 0.9 mg/cm².

Preliminary XRF Report No.	Component	Location	Color	Paint Conditio n	HUD/EPA Lead Status (≥1.0mg/cm²)	OSHA Lead Potential (≥0.1mg/cm ²)	XRF Result mg/cm ²
427	Ovhd Door	Garage	White	Unsat	LBP	Yes	3.297
428	Ovhd Door Jamb	Garage	White	Unsat	LBP	Yes	1.197
452	Hearth Tile	Living Room	White	Good	Lead Glaze	Yes	6.020

The components discovered during the onsite testing that exceeded the federal standard for lead paint are the items listed above.

The Leaded components are addressed in detail under Part V and VI, C of this Report.

B. Lead-Containing Components—Those items that contain lead at or above 0.1 mg/cm², but below 0.9 mg/cm².

Preliminary XRF Report No.	Component	Location	Color	Paint Cond ition	HUD/EPA Lead Status (≥1.0mg/cm ²)	OSHA Lead Potential (≥0.1mg/cm ²)	XRF Result mg/cm ²
431	Soffit	Ext. Left Side	White	Poor	Non-LBP	Yes	0.459
435	Concrete Wall	Ext. Right Side	White	Fair	Non-LBP	Yes	0.153
436	Concrete Wall	Ext. Front	White	Fair	Non-LBP	Yes	0.263
437	Roof Trim	Ext. Front	White	Unsat	Non-LBP	Yes	0.134
439	Concrete Wall	Ext. Left Side	White	Fair	Non-LBP	Yes	0.120
440	Concrete Wall	Ext. Rear	White	Fair	Non-LBP	Yes	0.411
441	Wood Wall	Ext. Rear	White	Poor	Non-LBP	Yes	0.146
443	Soffit	Ext. Rear	White	Unsat	Non-LBP	Yes	0.175
445	Entry Door Jamb	Front Porch	White	Fair	Non-LBP	Yes	0.536
448, 49, 51	Int. Wall Average	Living Room	White	Good	Non-LBP	Yes	0.128
456, 57, 59	Int. Wall Average	Kitchen	White	Good	Non-LBP	Yes	0.186
461, 2, 3, 4	Int. Wall Average	Utility Room	White	Good	Non-LBP	Yes	0.240
467	Floor Tile	Utility Room	Yellow	Good	Non-LBP	Yes	0.279
468	Int. Wall – Rear	Encl Back Porch	White	Good	Non-LBP	Yes	0.183
471	Int. Wall – LHS	Full Bath	White	Good	Non-LBP	Yes	0.373
473, 74, 76	Int. Wall Average	Bedroom #1	White	Good	Non-LBP	Yes	0.223
477, 78, 79	Int. Wall Average	Bedroom #2	White	Good	Non-LBP	Yes	0.166
482, 484	Int. Wall Average	Bedroom #3	White	Good	Non-LBP	Yes	0.124

The HUD *Guidelines* require that painted interior walls of each room must be tested during a paint inspection. The requirement is driven by the fact that the interior walls generally contain the greatest painted areas within the home, and the fact that the lead content of the paint seldom is applied/distributed evenly.

Most of the exterior white paint on this home on the wood surfaces is in "poor" or "unsatisfactory" condition and in need of repainting. Most of the exterior white paint on the concrete block walls is in "fair" condition, and also should be repainted sooner rather than later.

Most of the interior paint in this home is rated to be in "good" condition. The amount of lead and concentrations in the interior of this home is indicative of 1950s or early 1960s interior paint.

C. Non-Lead-Containing Components—Those items that contain lead below 0.1 mg/cm², or contain a negative K-shell reading.

All other components checked by XRF, throughout the property, and not listed in either of the two tables above, contained no detectable (or insignificant) lead content.

- **D. Paint Ratings**—while regulations do not allow paint condition ratings by a paint inspector; the regulations do allow such rating during a paint inspection when performed by a risk assessor. This is done to assist the renovation contractor by alerting him/her to those painted surfaces that may require attention.
 - Paints rated "Good" that contain lead present no current hazard unless disturbed.
 - Paints rated "Fair" are nearing the end of their useful life and should be restabilized with another coat of paint before they can become a source of lead dust.
 - Paints rated "Poor" (cracked) or "Unsatisfactory" (peeling) should be removed, the surfaces/substrates repaired/replaced and then re-painted. The lead paint removal process should involve capturing all of the leaded paint, not allowing it to contaminate soil or any interior surfaces.

Part V: Lead-Glazes in Ceramic Tiles

NOT A LEAD HAZARD—The ceramic tiles on the Utility Room floor and Full Bathtub surround, contain low quantities of lead in their glazes. The ceramic tile on the Living Room Hearth, however, contains significant lead in the glazing. (The reader's attention is invited to see lines **452**, 467, and 472, column #9 of the Preliminary XRF Report).

The interim federal standard, identifying lead-based paint, contains 1.0 mg/cm² of lead. These ceramic tiles contain lead between 0.279 and 6.020 mg/cm².

However, it is your **iS²e Risk Assessor's** opinion, in consultation with the Region VI EPA toxic waste coordinator, Mr. Jeff Robinson, that these tiles currently <u>do not present any LBP "hazard"</u>.

During renovation, if these tiles are removed/replaced (broken-up), they can create a significant amount of lead dust. Precautions should be taken during any such evolution to protect the workers, the inhabitants, and the dwelling itself. During any future renovation (when Pb painted surfaces, including the ceramic tiles, may be disturbed), Pb levels, even very low ones, can exceed OSHA respiratory Permissive Elevation (breathing) Levels (PELs), especially in confined spaces (e.g. closets, small bathrooms, etc.).

Ceramic tile has a baked-on glaze that is sufficiently durable to capture and hold any Lead Paint/glazing, so long as the glaze remains intact. The homeowner may limit his/her liability by making this report available to any contractor that attempts to remove this tile. This will alert the contractor to follow the OSHA regulations with regard to PELs. Additionally, the contractor should take ample precautions to prevent the spreading of any Pb dust during the tile removal throughout the home. These precautions should include:

- Sealing the affected rooms, using plastic sheeting and masking tape;
- Removing the tiles;
- Gathering the tiles into plastic bag-lined cardboard boxes (where the bag can be closed prior to removal from the area); and
- Using HEPA filtered vacuums (going over all exposed surfaces in the affected areas, including ceilings, walls, floors, windows, frames, sills, door trim, baseboards, etc.), twice covering with the vacuum all areas of the affected rooms, prior to <u>un</u>sealing those rooms.

In order to repair any chipped or damaged tiles in the future, these should first by washed with warm, soapy water, rinsed and dried. The homeowner using epoxy-resin-paint may then repair the damaged portion of the tile. This will re-seal the lead within the glaze.

These leaded tiles should only be cleaned with pH neutral or basic solutions (soaps, aqueous bleach, or common cleaners – e.g. 409, etc.) Acid solutions, even mild ones, may eventually attack the glaze in these tiles, and therefore should not be used. Even vinegar and water, if used enough times, may break down the glaze protecting the lead in these tiles, and therefore, should not be used.

WARNING

DO NOT MIX AMMONIA AND BLEACH.
This combination will form a deadly gas!

Part VI: Lead-Based Paint Risk Assessment

A. Visual Inspection/Findings:

iS²e, inc. conducted a Lead-Based Paint (LBP) Inspection (PI) and LBP Risk Assessment (RA) at Quarters No. 66, Inks Dam National Fish Hatchery, Burnet, TX 78611 on August 30, 2000. The home was occupied at the time of this inspection.

Quarters No.66 is a single story, pitched-roofed, frame and concrete block, single-family home with 3 bedrooms. The home faces to the east. Original construction occurred in 1957, comprising approximately 1182 ft^2 . The home presently houses a single, adult, male, full-time NFH employee.

Floor dust samples were gathered from the front entry and back porch entry to this home. Windowsill dust samples were gathered from Living Room (N), Bedroom #1 (S) and Bedroom #2 (W).

A composite soil sample was gathered from various points, near the foundation, beneath windows, and annotated on the sketch at the end of this report. The bare soil, composite yard samples concentrated on play areas on the east and west sides of this home.

The results of the dust and soil testing are discussed in Sections D and E of this Part.

B. Background/Use Information: The home functions presently as a permanent residence for a single, adult, male full-time NFH employee.

C. Lead-Based Paint Hazard(s) Identified: ONE (1)

1. The exterior white paint on the overhead garage door was rated to be in "unsatisfactory" condition, and contains more than 10ft² of LBP. Based on the age and condition of the door, it will be cost effective to replace the door. The Garage Doorjambs should be chemically stripped and repainted. Comments in Part IV, Para. B, concerning exterior white paint are germane, but do not represent a lead "hazard".

D. Lead Dust Hazard(s) Identified: NONE (0)

The Assaigai Analytical Laboratories single floor dust assay values for:

- The front entry ND μg/ft²
- The rear entry to Back Porch 6.8 μg/ft²

ND = no lead detected. These values are significantly below the federal Risk Assessment (RA) "action-level" (100 μ g/ft²). The Back Porch value is reflective of the condition and lead content of the white paint peeling on the exterior wood surfaces near the entry door. The Laboratory's detection limit for this sample is 5 μ g/ft².

The Assaigai Analytical Laboratories single windowsill dust assay values for:

- Bedroom #1 ND μg/ft²
- Bedroom #2.....ND μg/ft²
- Dining RoomND μg/ft²

Each of these values is below the federal Risk Assessment (RA) "action-level" (500 μ g/ft²). The Laboratory's detection limit for these samples is 13.6, 12.4, and 14.4 μ g/ft² respectively. These extremely low values are reflective of the post WWII paint and a lack of plastic mini-blinds.

With reasonable exterior paint maintenance, and absent any leaded mini-blinds, it has been your **iS²e Risk Assessor's** experience to find that maintaining windowsill dust lead levels at 10 μ g/ft² or less with quarterly cleaning is quite possible.

E. Lead Contaminated Soil Hazard(s) Identified: NONE (0)

The Assaigai Analytical Laboratories composite bare soil assay values for:

- The play yard area..... 5.4 PPM

Both of these values are below the lowest federal Risk Assessment (RA) "actionlevel" (400 PPM for high-density children's play area). However, the dripline lead contamination is most certainly reflective of the condition and lead content in the white exterior trim paint on wood surfaces. The Laboratory's detection limit for these samples is 5 PPM.

iS²e, inc. routinely finds most soils in residential settings throughout the State fall in the 10-25 PPM range.

F. Lead Water Hazard(s) Identified: NONE (0)

The Assaigai Analytical Laboratories water testing assay value for:

• The Kitchen Sink – "1st Draw" 3.0 μg/L

The US EPA Standard for "1st Draw" water testing is to take place at the kitchen sink, and be the first water from the tap that day. This is to allow time (over night) for the lead (if any) to leach from the water pipes, solder joints, or metal into the drinking/cooking water. The Standard is 15 μ g/L (millionths of a gram of lead per Liter of water). The test value is unremarkable.

G. Other Lead Hazard(s): NONE (0)

Part VII: Prioritized List of Lead Hazards Identified

C. Recommended Solutions for Lead Hazards Identified:

2. Exterior Lead Paint Hazard #1:

b. The exterior white paint on the overhead garage door was rated to be in "unsatisfactory" condition, and contains more than 10ft² of LBP. Based on the age and condition of the door, it will be cost effective to replace the door. The LBP on the Garage doorjambs should be chemically stripped and the jambs then primed and repainted.

D. Estimated Costs to Repair Lead Hazards Identified:

- 2. Repair of Jambs and Replacement Cost for the Garage Door—Hazard #1:
 - **b.** Cost estimate to replace the Garage Door is \$600.00. Cost estimate to repair the Garage doorjambs is \$200.

Report RAW XRF Data

Customer: US Fish & Wildlife Serv. 7333 W. Jefferson Ave. Lakewood,CO 80235 Project Name: Inks Dam NFH Route 2 Burnet,TX 78611 Site Name: Qtrs 66 1957; 1050ft2.

Action L	evel 1.00	00 mg /ci	m2	Lab 1.000 mg /cm2				To	otal Assays Reporte	ed and	65
#	Cust	Proj	Site	Identification N	lumber	Sample Number	K-Shell mg/cm2	L-Shell mg/cm2	Calibration	Time (sec)	Map #
424	0025	0005	0002	.002500050002	1	0.000 X	0.000 X	NONE	0.000	0	
425	0025	0005	0002	.0830010005642375		1	1.470 K	1.389 L	K-Shell	30.330	375
426	0025	0005	0002	1511457111		1	-0.244 K	0.171 L	K-Shell	28.250	375
427	0025	0005	0002	1681412		1	3.297 K	0.380 L	K-Shell	19.890	375
428	0025	0005	0002	1031213		1	1.197 K	0.030 L	K-Shell	74.240	375
429	0025	0005	0002	1451214		1	-0.136 K	0.076 L	K-Shell	19.890	375
430	0025	0005	0002	0214457111		1	0.074 K	0.110 L	K-Shell	28.250	375
431	0025	0005	0002	4471315		1	0.459 K	0.037 L	K-Shell	30.340	375
432	0025	0005	0002	4691216		1	-0.322 K	0.000 L	K-Shell	26.160	375
433	0025	0005	0002	4031413		1	0.015 K	0.143 L	K-Shell	17.800	375
434	0025	0005	0002	0311457211		1	-0.044 K	0.291 L	K-Shell	24.070	375
435	0025	0005	0002	0412457211	· · · · · · · · · · · · · · · · · · ·	1	0.153 K	0.264 L	K-Shell	24.070	375
436	0025	0005	0002	0113457211		1	0.263 K	0.314 L	K-Shell	26.150	375
437	0025	0005	0002	3481414		1	0.134 K	-0.043 L	K-Shell	21.980	375
438	0025	0005	0002	3471315		1	-0.047 K	0.125 L	K-Shell	13.620	375
439	0025	0005	0002	0214457211		1	0.120 K	0.242 L	K-Shell	30.340	375
440	0025	0005	0002	0311457211		1	0.411 K	0.015 L	K-Shell	26.160	375
441	0025	0005	0002	2451314		1	0.146 K	0.024 L	K-Shell	17.800	375
442	0025	0005	0002	1481414		1	-0.086 K	-0.221 L	K-Shell	19.880	375
443	0025	0005	0002	1471415		1	0.175 K	0.193 L	K-Shell	17.800	375
444	0025	0005	0002	0516281317	1	-0.018 K	0.135 L	K-Shell	13.620	375	
Page	1	of 4	Limit	Set: 0 Coding Set: 3	No Averaging S	elected					

Report RAW XRF Data

Customer: US Fish & Wildlife Serv. 7333 W. Jefferson Ave. Lakewood,CO 80235

Project Name: Inks Dam NFH Route 2 Burnet, TX 78611 Site Name: Qtrs 66

1957; 1050ft2.

65

Cust 0025 0025 0025	Proj 0005 0005	Site 0002	Identification Number	Sample Number	K-Shell	L-Shell	Calliburghan	Time	Map
0025 0025 0025	0005 0005	0002			mg/cm2	mg/cm2	Calibration	(sec)	#
0025 0025	0005		3031213	1	0.536 K	0.348 L	K-Shell	17.800	37:
0025		0002	2114234118	1	-0.009 K	0.130 L	K-Shell	24.070	37
	0005	0002	4183119	1	-0.003 K	0.286 L	K-Shell	9.440	37
0025	0005	0002	2311234118	1	0.246 K	0.153 L	K-Shell	21.970	37
0025	0005	0002	2234118	1	0.116 K	-0.127 L	K-Shell	15.710	37
0025	0005	0002	3234118	• 1	-0.064 K	0.069 L	K-Shell	21.980	37:
0025	0005	0002	4234118	1	0.212 K	0.323 L	K-Shell	19.890	37
0025	0005	0002	4392119	1	6.020 K	1.284 L	K-Shell	24.070	37:
0025	0005	0002	4141119	1	0.050 K	0.252 L	K-Shell	28.250	37
0025	0005	0002	6284119	1	0.000 K	0.035 L	K-Shell	17.800	37
0025	0005	0002	.0830010525642375	1	1.352 K	1.393 L	K-Shell	34.530	37
0025	0005	0002	4111234118	1	0.214 K	-0.079 L	K-Shell	17.800	37
0025	0005	0002	2234118	1	0.281 K	0.158 L	K-Shell	19.890	37
0025	0005	0002	3234118	1	0.141 K	0.287 L	K-Shell	24.070	37
0025	0005	0002	4234118	1	0.109 K	0.146 L	K-Shell	21.980	37
0025	0005	0002	4321569	1	0.070 K	-0.049 L	K-Shell	21.970	37
0025	0005	0002	4411234118	1	0.133 K	-0.163 L	K-Shell	15.710	37
0025	0005	0002	2234118	1	0.264 K	0.163 L	K-Shell	19.890	37
0025	0005	0002	3234118	1	0.104 K	0.150 L	K-Shell	19.890	37
0025	0005	0002	4234118	1	0.458 K	0.152 L	K-Shell	24.070	37
0025	0005	0002	4431119	1	0.072 K	-0.156 L	K-Shell	17.800	37
	0025 0025	0025 0005 0025 0005	0025 0005 0002 0025 0005 0022	0025 0005 0002 2234118 0025 0005 0002 3234118 0025 0005 0002 4234118 0025 0005 0002 4392119 0025 0005 0002 4392119 0025 0005 0002 4392119 0025 0005 0002 6284119 0025 0005 0002 0830010525642375 0025 0005 0002 2134118 0025 0005 0002 2234118 0025 0005 0002 3234118 0025 0005 0002 3234118 0025 0005 0002 3234118 0025 0005 0002 4321569 0025 0005 0002 2234118 0025 0005 0002 3234118 0025 0005 0002 3234118 0025 0005 0002 3234118 0025 0005 0002 3234118 0025 0005 0002 4234118<	0025 0005 0002 2234118 1 0025 0005 0002 3234118 1 0025 0005 0002 4234118 1 0025 0005 0002 4234118 1 0025 0005 0002 4392119 1 0025 0005 0002 4141119 1 0025 0005 0002 6284119 1 0025 0005 0002 0830010525642375 1 0025 0005 0002 2234118 1 0025 0005 0002 2234118 1 0025 0005 0002 3234118 1 0025 0005 0002 3234118 1 0025 0005 0002 4234118 1 0025 0005 0002 234118 1 0025 0005 0002 234118 1 0025 0005 0002 3234118 1 0025 0005 0002 3234118 1	0025 0005 0002 2234118 1 0.116 K 0025 0005 0002 3234118 1 -0.064 K 0025 0005 0002 4234118 1 0.212 K 0025 0005 0002 4392119 1 6.020 K 0025 0005 0002 4141119 1 0.050 K 0025 0005 0002 6284119 1 0.000 K 0025 0005 0002 0830010525642375 1 1.352 K 0025 0005 0002 2111234118 1 0.214 K 0025 0005 0002 2234118 1 0.281 K 0025 0005 0002 3234118 1 0.141 K 0025 0005 0002 4234118 1 0.109 K 0025 0005 0002 2234118 1 0.133 K 0025 0005 0002 2234118 1 0.104 K 0025 <td>0025 0005 0002 2234118 1 0.116 K -0.127 L 0025 0005 0002 3234118 1 -0.064 K 0.069 L 0025 0005 0002 4234118 1 0.212 K 0.323 L 0025 0005 0002 4392119 1 6.020 K 1.284 L 0025 0005 0002 4141119 1 0.050 K 0.252 L 0025 0005 0002 6284119 1 0.000 K 0.035 L 0025 0005 0002 6284119 1 0.214 K -0.079 L 0025 0005 0002 234118 1 0.214 K -0.079 L 0025 0005 0002 234118 1 0.214 K -0.079 L 0025 0005 0002 234118 1 0.141 K 0.287 L 0025 0005 0002 4234118 1 0.146 L 0025 0005 0002 4321569 1 0.070 K -0.049 L 0025 0005 0002</td> <td>0025 0005 0002 2234118 1 0.116 K -0.127 L K-Shell 0025 0005 0002 3234118 1 -0.064 K 0.069 L K-Shell 0025 0005 0002 4234118 1 0.212 K 0.323 L K-Shell 0025 0005 0002 4234118 1 0.212 K 0.323 L K-Shell 0025 0005 0002 4392119 1 6.020 K 1.284 L K-Shell 0025 0005 0002 414119 1 0.050 K 0.252 L K-Shell 0025 0005 0002 6284119 1 0.000 K 0.035 L K-Shell 0025 0005 0002 0830010525642375 1 1.352 K 1.393 L K-Shell 0025 0005 0002 234118 1 0.214 K -0.079 L K-Shell 0025 0005 0002 234118 1 0.141 K 0.287 L K-Shell 0025 0005 0002 432118 1 0.107 K -0.0</td> <td>0025 0005 0002 2234118 1 0.116 K -0.127 L K-Shell 15.710 0025 0005 0002 3234118 1 -0.064 K 0.069 L K-Shell 21.980 0025 0005 0002 4234118 1 0.212 K 0.323 L K-Shell 21.980 0025 0005 0002 4392119 1 6.020 K 1.284 L K-Shell 24.070 0025 0005 0002 4392119 1 0.005 K 0.252 L K-Shell 28.250 0025 0005 0002 6284119 1 0.000 K 0.035 L K-Shell 17.800 0025 0005 0002 2234118 1 0.214 K -0.079 L K-Shell 19.890 0025 0005 0002 2234118 1 0.214 K 0.158 L K-Shell 19.890 0025 0005 0002 2324118 1 0.146 L K-Shell 19.890</td>	0025 0005 0002 2234118 1 0.116 K -0.127 L 0025 0005 0002 3234118 1 -0.064 K 0.069 L 0025 0005 0002 4234118 1 0.212 K 0.323 L 0025 0005 0002 4392119 1 6.020 K 1.284 L 0025 0005 0002 4141119 1 0.050 K 0.252 L 0025 0005 0002 6284119 1 0.000 K 0.035 L 0025 0005 0002 6284119 1 0.214 K -0.079 L 0025 0005 0002 234118 1 0.214 K -0.079 L 0025 0005 0002 234118 1 0.214 K -0.079 L 0025 0005 0002 234118 1 0.141 K 0.287 L 0025 0005 0002 4234118 1 0.146 L 0025 0005 0002 4321569 1 0.070 K -0.049 L 0025 0005 0002	0025 0005 0002 2234118 1 0.116 K -0.127 L K-Shell 0025 0005 0002 3234118 1 -0.064 K 0.069 L K-Shell 0025 0005 0002 4234118 1 0.212 K 0.323 L K-Shell 0025 0005 0002 4234118 1 0.212 K 0.323 L K-Shell 0025 0005 0002 4392119 1 6.020 K 1.284 L K-Shell 0025 0005 0002 414119 1 0.050 K 0.252 L K-Shell 0025 0005 0002 6284119 1 0.000 K 0.035 L K-Shell 0025 0005 0002 0830010525642375 1 1.352 K 1.393 L K-Shell 0025 0005 0002 234118 1 0.214 K -0.079 L K-Shell 0025 0005 0002 234118 1 0.141 K 0.287 L K-Shell 0025 0005 0002 432118 1 0.107 K -0.0	0025 0005 0002 2234118 1 0.116 K -0.127 L K-Shell 15.710 0025 0005 0002 3234118 1 -0.064 K 0.069 L K-Shell 21.980 0025 0005 0002 4234118 1 0.212 K 0.323 L K-Shell 21.980 0025 0005 0002 4392119 1 6.020 K 1.284 L K-Shell 24.070 0025 0005 0002 4392119 1 0.005 K 0.252 L K-Shell 28.250 0025 0005 0002 6284119 1 0.000 K 0.035 L K-Shell 17.800 0025 0005 0002 2234118 1 0.214 K -0.079 L K-Shell 19.890 0025 0005 0002 2234118 1 0.214 K 0.158 L K-Shell 19.890 0025 0005 0002 2324118 1 0.146 L K-Shell 19.890

Lab 1.000 mg/cm2

Report RAW XRF Data

US Fish & Wildlife Serv. Customer: 7333 W. Jefferson Ave. Lakewood,CO 80235

Action Level 1.000 mg/cm2

Project Name: Inks Dam NFH Route 2 Burnet, TX 78611 Site Name: Qtrs 66

1957; 1050ft2.

65

Action L	evel 1.00	00 mg /cr	m2	Lab 1.000 mg /cm2				Т	otal Assays Report	ed	65
#	Cust	Proj	Site	Identification N	lumber	Sample Number	K-Shell mg/cm2	L-Shell mg/cm2	Calibration	Time (sec)	Map #
466	0025	0005	0002	2111119		1	-0.065	K 0.133 L	K-Shell	19.890	375
467	0025	0005	0002	5082129		1	0.279	K 0.071 L	K-Shell	24.070	375
468	0025	0005	0002	0613231119		1	0.183	K 0.104 L	K-Shell	17.800	375
469	0025	0005	0002	6281219		1	-0.055	K 0.032 L	K-Shell	24.070	375
470	0025	0005	0002	2121331119		1	-0.117	K 0.036 L	K-Shell	17.800	375
471	0025	0005	0002	3112234118		1	0.373	K -0.007 L	K-Shell	17.800	375
472	0025	0005	0002	1382119		1	-0.420	K -1.566 L	K-Shell	30.340	375
473	0025	0005	0002	2911234118		1	0.308	K 0.334 L	K-Shell	21.980	375
474	0025	0005	0002	2234118		1	0.278	K 0.113 L	K-Shell	28.250	375
475	0025	0005	0002	3234118		1	0.055	K 0.114 L	K-Shell	19.890	375
476	0025	0005	0002	4234118	·	1	0.250	K -0.047 L	K-Shell	17.800	375
477	0025	0005	0002	2921234118		1	0.258	K 0.074 L	K-Shell	21.980	375
478	0025	0005	0002	2234118		1	0.223	K 0.155 L	K-Shell	19.890	375
479	0025	0005	0002	3234118		1	0.163	K 0.220 L	K-Shell	19.880	375
480	0025	0005	0002	4234118		1	0.020	K 0.017 L	K-Shell	17.800	375
481	0025	0005	0002	1421219		. 1	-0.196	K -0.006 L	K-Shell	9.440	375
482	0025	0005	0002	2931234118		1	0.124	K 0.180 L	K-Shell	21.980	375
483	0025	0005	0002	2234118		1	0.045	K 0.043 L	K-Shell	17.800	375
484	0025	0005	0002	3234118		1	0.288	K 0.224 L	K-Shell	21.980	375
485	0025	0005	0002	4234118		1	0.037	K 0.251 L	K-Shell	19.890	375
486	0025	0005	0002	.0830011255642375		1	1.168	K 1.377 L	K-Shell	34.530	375
Page	3 (of 4	4 Limit	Set: 0 Coding Set: 3	No Averaging S	Selected					

Report RAW XRF Data

Customer: US Fish & Wildlife Serv. 7333 W. Jefferson Ave. Lakewood,CO 80235 Project Name: Inks Dam NFH Route 2 Burnet,TX 78611 Site Name: Qtrs 66 1957; 1050ft2.

Action L	evel 1.00)0 mg /cr	m2	Lab 1.000 mg /cm2			To	65		
#	Cust	Proj	Site	Identification Number	Sample K-Shell Number mg/cm2		L-Shell mg/cm2 Calibration		Time (sec)	Map #
487	0025	0005	0002	.0830011255642375	2	1.296 K	1.353 L	K-Shell	30.330	375
488	0025	0005	0002	.0830011255642375	3	1.299 K	1.385 L	K-Shell	32.430	375

Customer: US Fish & Wildlife Serv.

7333 W. Jefferson Ave.

Lakewood,CO 80235

Preliminary XRF

Project Name: Inks Dam NFH Route 2 Burnet,TX 78611 Site Name: Qtrs 66 1957; 1050ft2.

59 **Total Assays Reported** Action Level 1.000 mg/cm2 Lab 1.000 mg/cm2 Paint K-Shell L-Shell Map # Wall # Component Site Room Tested Substrate Type Result # Condition mg/cm2 mg/cm2 426 0002 Garage 1 Front Exterior Wall Concrete Good -0.244 K 0.171 L 375 UNLM Neg 0002 Garage 3.297 K 427 1 Front Ovhd Garage Dr Wood Unsat UNLM Pos 0.380 L 375 428 0002 Garage Front Door Jamb Wood Fair UNLM 1 1.197 K 0.030 L 375 Incl 429 0002 Garage 1 Front Exterior Wall Wood Fair 0.076 L 375 UNLM -0.136 K Neg 430 **R-Sid** Exterior Wall 0002 Ext. L-Side 1 Concrete Good 375 UNLM 0.074 K 0.110 L Neg 431 Wood R-Sid Soffit 0002 Ext. L-Side 1 Poor 0.459 K 0.037 L 375 UNLM Neg 432 Ext. L-Side 1 **R-Sid** Walk-in Garage Wood 0002 Fair -0.322 K 0.000 L 375 UNLM Neg 433 0002 Ext. L-Side 1 **R-Sid** Door Jamb Wood 375 UNLM Unsat 0.015 K 0.143 L Neg 434 Ext. Back 0002 1 Front Exterior Wall Concrete Fair -0.044 K 0.291 L 375 UNLM Neg 435 0002 Ext. R-Side 1 L-Sid Exterior Wall Fair 375 Neg Concrete 0.153 K 0.264 L UNLM 436 0002 **Ext. Front** 1 **Rear** Exterior Wall Concrete Fair 0.263 K 0.314 L 375 UNLM Neg 437 0002 **Ext. Front** 1 Rear Roof Trim Wood Unsat 0.134 K -0.043 L 375 UNLM Neg 438 0002 **Ext. Front** 1 Rear Soffit Wood Poor -0.047 K 0.125 L 375 UNLM Neg 439 0002 Ext. L-Side 1 **R-Sid** Exterior Wall Concrete Fair 0.120 K 0.242 L 375 UNLM Neg 440 0002 Ext. Back 1 Front Exterior Wall Concrete Fair 0.411 K 0.015 L 375 UNLM Neg L-Sid Exterior Wall Wood 375 UNLM 441 0002 Ext. Back 1 Poor 0.146 K 0.024 L Neg 442 0002 Ext. Back 1 Front Roof Trim Wood Unsat -0.086 K -0.221 L 375 UNLM Neg Front Soffit 443 0002 Ext. Back 1 Wood Unsat 0.175 K 0.193 L 375 UNLM Neg Ceilin Ceiling Wood UNLM 444 0002 **Front Porch** 1 Poor -0.018 K 0.135 L 375 Neg Wood Fair UNLM Neg 445 0002 **Front Porch** 1 Rear Door Jamb 0.536 K 0.348 L 375 446 0002 Hallway 1 **R-Sid** Interior Wall Sheetrock Good -0.009 K 0.130 L 375 UNLM Neg No Averaging Selected of 3 Limit Set: 0 Coding Set: 3 1 Page

Customer: US Fish & Wildlife Serv.

Preliminary XRF

Project Name: Inks Dam NFH Route 2 Burnet, TX 78611 Site Name: Qtrs 66 1957; 1050ft2.

Total Assays Reported

59

Lakewood,CO 80235 Action Level 1.000 mg/cm2

7333 W. Jefferson Ave.

Lab 1.000 mg /cm2

#	Site	Room Tested	#	Wall	Component	Substrate	Paint Condition	K-Shell mg/cm2	L-Shell mg/cm2	Map #	Туре	Result
447	0002	Hallway	1	R-Sid	Closet Door	Aluminum	Good	-0.003 K	0.286 L	375	UNLM	Neg
448	0002	Living Room	1	Front	Interior Wall	Sheetrock	Good	0.246 K	0.153 L	375	UNLM	Neg
449	0002	Living Room	1	L-Sid	Interior Wall	Sheetrock	Good	0.116 K	-0.127 L	375	UNLM	Neg
450	0002	Living Room	1	Rear	Interior Wall	Sheetrock	Good	-0.064 K	0.069 L	375	UNLM	Neg
451	0002	Living Room	1	R-Sid	Interior Wall	Sheetrock	Good	0.212 K	0.323 L	375	UNLM	Neg
452	0002	Living Room	1	R-Sid	Hearth	Tile	Good	6.020 K	1.284 L	375	UNLM	Pos
453	0002	Living Room	1	R-Sid	Window - Sill	Wood	Good	0.050 K	0.252 L	375	UNLM	Neg
454	0002	Living Room	1	Ceilin	Ceiling	Sheetrock	Good	0.000 K	0.035 L	375	UNLM	Neg
456	0002	Kitchen	1	Front	Interior Wall	Sheetrock	Good	0.214 K	-0.079 L	375	UNLM	Neg
457	0002	Kitchen	1	L-Sid	Interior Wall	Sheetrock	Good	0.281 K	0.158 L	375	UNLM	Neg
458	0002	Kitchen	1	Rear	Interior Wall	Sheetrock	Good	0.141 K	0.287 L	375	UNLM	Neg
459	0002	Kitchen	1	R-Sid	Interior Wall	Sheetrock	Good	0.109 K	0.146 L	375	UNLM	Neg
460	0002	Kitchen	1	R-Sid	Kitchen	Wood	Stain	0.070 K	-0.049 L	375	UNLM	Neg
461	0002	Util/Laundry	1	Front	Interior Wall	Sheetrock	Good	0.133 K	-0.163 L	375	UNLM	Neg
462	0002	Util/Laundry	1	L-Sid	Interior Wall	Sheetrock	Good	0.264 K	0.163 L	375	UNLM	Neg
463	0002	Util/Laundry	1	Rear	Interior Wall	Sheetrock	Good	0.104 K	0.150 L	375	UNLM	Neg
464	0002	Util/Laundry	1	R-Sid	Interior Wall	Sheetrock	Good	0.458 K	0.152 L	375	UNLM	Neg
465	0002	Util/Laundry	1	R-Sid	Interior Door	Wood	Good	0.072 K	-0.156 L	375	UNLM	Neg
466	0002	Util/Laundry	1	L-Sid	Baseboard	Wood	Good	-0.065 K	0.133 L	375	UNLM	Neg
467	0002	Util/Laundry	1	Floor	Floor -	Tile	Good	0.279 K	0.071 L	375	UNLM	Neg
468	0002	Back Porch	1	Rear	Interior Wall	Wood	Good	0.183 K	0.104 L	375	UNLM	Neg
Page	age 2 of 3 Limit Set: 0		Coding	Set: 3	No Averaging Se	elected						

Customer: US Fish & Wildlife Serv.

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Preliminary XRF

Project Name: Inks Dam NFH Route 2 Burnet, TX 78611 Site Name: Qtrs 66 1957; 1050ft2.

Total Assays Reported

59

Lakewood,CO 80235 Action Level 1.000 mg/cm2

7333 W. Jefferson Ave.

Lab 1.000 mg /cm2

#	Site	Room Tested	#	Wall	Component	Substrate	Paint Condition	K-Shell mg/cm2	L-Shell mg/cm2	Map #	Туре	Result
469	0002	Back Porch	1	Ceilin	Ceiling	Wood	Fair	-0.055 K	0.032 L	375	UNLM	Neg
470	0002	Hallway	2	Front	Cabinets -	Wood	Good	-0.117 K	0.036 L	375	UNLM	Neg
471	0002	Bath - Full	1	L-Sid	Interior Wall	Sheetrock	Good	0.373 K	-0.007 L	375	UNLM	Neg
472	0002	Bath - Full	1	Front	Tub Surround	Tile	Good	-0.420 K	-1.566 L	375	UNLM	Neg
473	0002	Bedroom	1	Front	Interior Wall	Sheetrock	Good	0.308 K	0.334 L	375	UNLM	Neg
474	0002	Bedroom	1	L-Sid	Interior Wall	Sheetrock	Good	0.278 K	0.113 L	375	UNLM	Neg
475	0002	Bedroom	1	Rear	Interior Wall	Sheetrock	Good	0.055 K	0.114 L	375	UNLM	Neg
476	0002	Bedroom	1	R-Sid	Interior Wall	Sheetrock	Good	0.250 K	-0.047 L	375	UNLM	Neg
477	0002	Bedroom	2	Front	Interior Wall	Sheetrock	Good	0.258 K	0.074 L	375	UNLM	Neg
478	0002	Bedroom	2	L-Sid	Interior Wall	Sheetrock	Good	0.223 K	0.155 L	375	UNLM	Neg
479	0002	Bedroom	2	Rear	Interior Wall	Sheetrock	Good	0.163 K	0.220 L	375	UNLM	Neg
480	0002	Bedroom	2	R-Sid	Interior Wall	Sheetrock	Good	0.020 K	0.017 L	375	UNLM	Neg
481	0002	Bedroom	2	Front	Interior Door	Wood	Fair	-0.196 K	-0.006 L	375	UNLM	Neg
482	0002	Bedroom	3	Front	Interior Wall	Sheetrock	Good	0.124 K	0.180 L	375	UNLM	Neg
483	0002	Bedroom	3	L-Sid	Interior Wall	Sheetrock	Good	0.045 K	0.043 L	375	UNLM	Neg
484	0002	Bedroom	3	Rear	Interior Wall	Sheetrock	Good	0.288 K	0.224 L	375	UNLM	Neg
485	0002	Bedroom	3	R-Sid	Interior Wall	Sheetrock	Good	0.037 K	0.251 L	375	UNLM	Neg

Daily Calibration

Project	Site	Date	Time	K-Shell mg/cm2	K-Avg. mg/cm2	L-Shell mg/cm2	L-Avg. mg/cm2	Scanner #	Instr #	Oper
0004	0002	08/30/00	06:54A	1.212	1.212	1.405	1.405	M41375	375	5642
0004	0002	08/30/00	06:55A	1.307	1.307	1.320	1.320	M41375	375	5642
0004	0002	08/30/00	06:55A	1.357	1.357	1.338	1.338	M41375	375	5642
0004	0002	08/30/00	07:02A	1.409	1.409	1.412	1.412	M41375	375	5642
0005	0002	08/30/00	08:58A	1.470	1.470	1.389	1.389	M41375	375	5642
0005	0002	08/30/00	09:49A	1.352	1.352	1.393	1.393	M41375	375	5642
0005	0002	08/30/00	10:22A	1.168	1.168	1.377	1.377	M41375	375	5642
0005	0002	08/30/00	10:23A	1.296	1.296	1.353	1.353	M41375	375	5642
0005	0002	08/30/00	10:24A	1.299	1.299	1.385	1.385	M41375	375	5642
0005	0003	08/30/00	11:37A	1.182	1.182	1.435	1.435	M41375	375	5642
0005	0003	08/30/00	11:38A	1.242	1.242	1.359	1.359	M41375	375	5642
0005	0003	08/30/00	11:39A	1.317	1.317	1.319	1.319	M41375	375	5642
0005	0003	08/30/00	11: 42 A	1.210	1.210	1.371	1.371	M41375	375	5642
0005	0003	08/30/00	11:43A	1.293	1.293	1.382	1.382	M41375	375	5642
0005	0003	08/30/00	11:45A	1.287	1.287	1.317	1.317	M41375	375	5642
0005	0003	08/30/00	12:12P	1.384	1.384	1.379	1.379	M41375	375	5642
0005	0003	08/30/00	12:55P	1.335	1.335	1.380	1.380	M41375	375	5642

Page

1

Single Family HUD Data Sheet

Customer:	US Fish & Wildlife Serv.
	7333 W. Jefferson Ave.
	Lakewood,CO 80235

Project Name: Inks Dam NFH Route 2 Burnet, TX 78611 Site Name: Qtrs 66 1957: 1050ft2.

59 Action Level 1.000 mg/cm2 Lab 1.000 mg/cm2 **Total Assays Reported** Map Paint Paint K-Shell Wall Room Tested # Component Substrate Grp Average Lab Result # Color Cond mg/cm2 **Rear** Exterior Wall 375 **Ext. Front** 1 (GX) Concrete White Fair 0.263 K Neg 0.263 Wood Poor 375 **Ext. Front** 1 (GX) Rear Soffit White -0.047 K -0.047 Neg 375 **Ext. Front Roof Trim** 1 (GX) Wood White 0.134 K Rear Unsat 0.134 Neg 375 Ext. L-Side 1 (GX) **R-Sid** Door Jamb Wood White Unsat 0.015 K 0.015 Neg 375 Ext. L-Side **R-Sid** Exterior Wall 0.074 K 1 (GX) Concrete White Good 0.097 Neg 1 (GX) 375 Ext. L-Side **R-Sid** Exterior Wall White Fair 0.120 K Concrete 375 **R-Sid** Soffit Wood White Poor 0.459 K 0.459 Ext. L-Side 1 (GX) Neg 375 Ext. L-Side **R-Sid** Walk-in Garage Wood White Fair -0.322 K -0.322 1 (GX) Neg 375 Ext. Back 1 (GX) L-Sid Exterior Wall Wood White Poor 0.146 K 0.146 Neg 375 Front Exterior Wall White Fair -0.044 K Ext. Back 1 (GX) Concrete 0.184 Neg Front Exterior Wall White Fair 375 Ext. Back 1 (GX) Concrete 0.411 K 1 (GX) Front Soffit Wood 0.175 K 0.175 375 Ext. Back White Unsat Neg 375 Ext. Back Front Roof Trim Wood White Unsat -0.086 K -0.086 1 (GX) Neg L-Sid Exterior Wall Fair 0.153 K 0.153 375 Ext. R-Side 1 (GX) Concrete White Neg White **Front Porch** Rear Door Jamb Wood Fair 0.536 K 0.536 375 1 (GX) Neg 375 **Front Porch** 1 (GX) Ceilin Ceiling Wood White Poor -0.018 K -0.018 Neg Wood White Good 0.183 K 0.183 Interior Wall Neg 375 **Back Porch** 1 (GX)Rear Wood White Fair -0.055 K -0.055 Neg 1 (GX) Ceilin Ceiling 375 **Back Porch** 1.197 K 375 1 (GX) Front Door Jamb Wood White Fair 1.197 Incl Garage Front Exterior Wall Wood White Fair -0.136 K -0.136 Neg 375 1 (GX) Garage

Page 1 of 3 Limit Set: 0 Coding Set: 3 Straight average

Single Family HUD Data Sheet

Customer:	US Fish & Wildlife Serv.
	7333 W. Jefferson Ave.
	Lakewood,CO 80235

Project Name: Inks Dam NFH Route 2 Burnet,TX 78611

Site Name: Qtrs 66 1957; 1050ft2.

Action I	Level 1.000 mg	/cm2	La	ıb 1.000	mg /cm2					Total Assays	Reported	59
Map #	Room Tested	#	Grp	Wall	Component	Substrate	Paint Color	Paint Cond	K-Shell mg/cm2	Average	Lab	Result
375	Garage	1	(GX)	Front	Exterior Wall	Concrete	White	Good	-0.244 K	-0.244		Neg
375	Garage	1	(GX)	Front	Ovhd Garage Dr	Wood	White	Unsat	3.297 K	3.297		Pos
375	Hallway	1	(GX)	R-Sid	Closet Door	Aluminum	White	Good	-0.003 K	-0.003		Neg
375	Hallway	1	(GX)	R-Sid	Interior Wall	Sheetrock	White	Good	-0.009 K	-0.009		Neg
375	Hallway	2	(GX)	Front	Cabinets -	Wood	White	Good	-0.117 K	-0.117		Neg
375	Living	1	(GX)	R-Sid	Window - Sill	Wood	White	Good	0.050 K	0.050		Neg
375	Living	1	(GX)	Front	Interior Wall	Sheetrock	White	Good	0.246 K	0.128		Neg
375	Living	1	(GX)	L-Sid	Interior Wall	Sheetrock	White	Good	0.116 K			
375	Living	1	(GX)	Rear	Interior Wall	Sheetrock	White	Good	-0.064 K			
375	Living	1	(GX)	R-Sid	Interior Wall	Sheetrock	White	Good	0.212 K	- 		
375	Living	1	(GX)	Ceilin	Ceiling	Sheetrock	White	Good	0.000 K	0.000		Neg
375	Living	1	(GX)	R-Sid	Hearth	Tile	White	Good	6.020 K	6.020		Pos
375	Bedroom	1	(GX)	Front	Interior Wall	Sheetrock	White	Good	0.308 K	0.223		Neg
375	Bedroom	1	(GX)	L-Sid	Interior Wall	Sheetrock	White	Good	0.278 K			
375	Bedroom	1	(GX)	Rear	Interior Wall	Sheetrock	White	Good	0.055 K			
375	Bedroom	1	(GX)	R-Sid	Interior Wall	Sheetrock	White	Good	0.250 K			
375	Bedroom	2	(GX)	Front	Interior Wall	Sheetrock	White	Good	0.258 K	0.166		Neg
375	Bedroom	2	(GX)	L-Sid	Interior Wall	Sheetrock	White	Good	0.223 K			
375	Bedroom	2	(GX)	Rear	Interior Wall	Sheetrock	White	Good	0.163 K			
375	Bedroom	2	(GX)	R-Sid	Interior Wall	Sheetrock	White	Good	0.020 K			
375	Bedroom	3	(GX)	Front	Interior Wall	Sheetrock	White	Good	0.124 K	0.124		Neg
Page	2 of	3 L	imit Set	:0 C	oding Set: 3 St	raight average						

Single Family HUD Data Sheet

US Fish & Wildlife Serv.
7333 W. Jefferson Ave.
Lakewood,CO 80235

Project Name: Inks Dam NFH Route 2 Burnet,TX 78611 Site Name: Qtrs 66 1957; 1050ft2.

Total Assays Reported

59

Action Level 1.000 mg/cm2 Lab 1.000 mg/cm2

Map #	Room Tested	#	Grp	Wall	Component	Substrate	Paint Color	Paint Cond	K-Shell mg/cm2	Average	Lab	Result
375	Bedroom	3	(GX)	L-Sid	Interior Wall	Sheetrock	White	Good	0.045 K			
375	Bedroom	3	(GX)	Rear	Interior Wall	Sheetrock	White	Good	0.288 K			
375	Bedroom	3	(GX)	R-Sid	Interior Wall	Sheetrock	White	Good	0.037 K			
375	Bedroom	2	(GX)	Front	Interior Door	Wood	White	Fair	-0.196 K	-0.196		Neg
375	Bath - Full	1	(GX)	L-Sid	Interior Wall	Sheetrock	White	Good	0.373 K	0.373		Neg
375	Bath - Full	1	(GX)	Front	Tub Surround	Tile	White	Good	-0.420 K	-0.420		Neg
375	Kitchen	1	(GX)	Front	Interior Wall	Sheetrock	White	Good	0.214 K	0.186		Neg
375	Kitchen	1	(GX)	L-Sid	Interior Wall	Sheetrock	White	Good	0.281 K			
375	Kitchen	1	(GX)	Rear	Interior Wall	Sheetrock	White	Good	0.141 K			
375	Kitchen	1	(GX)	R-Sid	Interior Wall	Sheetrock	White	Good	0.109 K			
375	Kitchen	1	(GX)	R-Sid	Kitchen	Wood	Brown	Stain	0.070 K	0.070		Neg
375	Util/Laundr	1	(GX)	Floor	Floor -	Tile	Yellow	Good	0.279 K	0.279		Neg
375	Util/Laundr	1	(GX)	L-Sid	Baseboard	Wood	White	Good	-0.065 K	-0.065		Neg
375	Util/Laundr	1	(GX)	Front	Interior Wall	Sheetrock	White	Good	0.133 K	0.240		Neg
375	Util/Laundr	1	(GX)	L-Sid	Interior Wall	Sheetrock	White	Good	0.264 K			
375	Util/Laundr	1	(GX)	Rear	Interior Wall	Sheetrock	White	Good	0.104 K			
375	Util/Laundr	1	(GX)	R-Sid	Interior Wall	Sheetrock	White	Good	0.458 K			
375	Util/Laundr	1	(GX)	R-Sid	Interior Door	Wood	White	Good	0.072 K	0.072		Neg

polanda.	ASS ANA LAB 7300 J	AIGAI ALYTICAI ORATOI efferson, NE	- RIES, INC. • Albuquerque, Ner	w Mexico 87109 • (5	05) <u>345-8964</u>	• FAX (5	05) 345-7259	-
	3332 V	Vedgewood	Dr., Suite N • El Pase	D, Texas 79925 - (91) New Mexico 87544	5) 693-600 <u>0 -</u> 1 • (505) 562	<u> </u>	5) 593-7820 nation of code	
	127 EC	isigate utive,	212-C • LOS Alome			-200 BAP IN	deleated in Method	Plank
					D F	anarya	meult is estimated	
IS2E, IN	IC.				Γ.	anı	lyzed out of hold tin	10
attn: BO	BKNOW	/LES			N	tentati	vely Identified comp	ounci
10408 (CITY LIG	HTS DR., NE			S	· · · · · ·	subcontracted	
ALBUC	UERQU	E, NM 87111			1-9		see footnote	
			Assalgai An Certifica	alytical Laboratories, Inc. I te of Analy Si	is /			
Client: IS2E, I Project: 000904	NC. 15 0	02500050002		William Pre	Maval President of Asz		Leboretolike, 14.	
	RSXI			Sample D			Sample	<u>08/30/0</u>
Sample ID			,	Matrix			Collected	(18:30:0
QC Group Run S	equence		Analyte	Result	Units	Dilution Factor	Detection Limit Code	Ryn Date
MD01003 MW.200	00.1324-11	7438-82-1	Lead	ND	ua/ft2	1	5	00/80/90
		· =	······································			<u> </u>		3 .
Client Sample ID	DRS X 1	(REAR)	······································	Sample Matrix D			Sample Collected	08/30/0 08:40:0
						Dilution	Detection	Run
QC Group Run S	equence	CAS #	Analyte	Result	Units	Factor	Limit Code	Date
0009045-024		SWRAG 3050AC	1000 veries & A.FI	X.				
M001003 MW.200	00.1324-12	7439-92-1	Lead	6.8	ug/ft2	1	5	09/08/00
		l				·	I]
Client W-SIL	LS X 1	(DR)		Sample D Matrix D			Sample Collected	08/30/0
				** ** _		Dilution	Detection	Run
QC Group Run S	equence	CAS #	Analyte	Result	Unita	Factor	Limit Code	Date
0009046-034			1000 series & A.El					
M001003 MW.200	00.1324-13	7439-92-1	Lead	ND .	ua/ft2	1	14.4	09/08/00
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Page 1 of 2			Client Reports	2.0		Report	Date 9/11/2000 12	:50.17 PM
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Assaigal Analytical Laboratories, Inc. Certificate of Analysis

Client: Project:	IS2E, INC. 0009 045 0	02500050002	- <u></u>				· · · · ·	
Client Sample ID	W-SILLS X	1 (BDRM #1)		Sample D Matrix	•	<u></u> <u></u>	Samı Colle	te 08/30/00 ctad 08:00:00
QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit (Run Sode Date
0009045-04	48	SW846 3050A/700	0 series AA-FL				á.	
M001003	MW.2000.1324-14	7439-92-1	Lead	ND	ug/ft2	11	13.6	09/08/00
Client Sample ID	W-SILLS X	1 (BDRM#2)		sample Matrix D		, <u></u>	Sam	cted 09:10:00
QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit (Run Code Date
0009045-0	5A	SW846 3050A/700	0 series AA-FL					
MQ010D3	MW.2000.1324-15	7439-92-1	Lead	ND	ug/ft2	1	12.4	00/86/90
Cilent Sample ID	SOIL-DL	· ·· ··		Sample S Matrix S			Sam	ole 08/30/00 cted 09:20:00
QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit (Run Code Date
0009045-0/	RA	SW846 30504/700	A garies AA.FL					
M001004	MW.2000,1923-44	7430-02-1	Load	91.5	ppm	1	5	09/08/00
Client Sample ID	SOIL-YD	······································	·	Sample S Metrix		· •	Sam Colle	ote 08/30/00 cted 99/30:00
QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit (Run Code Date
0009045-07	7A	SW846 30504/700	O series AA-FL					
M001004	MW.2000.1325-8	7439-92-1	Lead	5.4	ppm	1	5	09/08/00

*** Sample specific Detection Limit is determined by multiplying the sample Dilution Factor by the listed Reporting Detection Limit. ***
*** ND - Not detected: less than the sample specific Detection Limit. Results relate only to the items tested. ***

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Page 2 of 2

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· · .	7300 Jefferson, NE · Albuquerque, New Mexico 87109 · (505) 345-6	964	• FAX (505) 345-7259	
	3332 Wedgewood Dr., Sulte N • El Paso, Texas 79925 • (915) 593-60	• 00	FAX (915) 593-7820	
	127 Eastgate Drive, 212-C • Los Alamos, New Mexico 87544 • (505)	662-:	²⁵⁵ Explanation of codes	
		B	analyte detected in Method Blank	
	. • • • • • • • • • • • • • • • • • • •	E	result is estimated	
ISZÉ, IN	C.	H	analyzed out of hold time	
attn: BOE	3 KNOWLES	N	tentatively identified compound	
10408 C	ITY LIGHTS DR., NE	S	subcontracted	_

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client: IS2E, INC. Project: 0009026 002500XX SERIES

ALBUQUERQUE, NM 87111

los, inc.

1-9

Client Sample ID	2507 INKS C	AM NFH		Sample W Matrix			08/30/00 07:00:00		
QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Run Date
0009026-01	A	EPA 200.8 ICP-!	AS						
M001006	MW.2000.1342-17	7439-92-1	Lead	3.0	ug / L	<u>1</u>	(···	<u> </u>	09/12/00

*** Sample specific Detection Limit is determined by multiplying the sample Dilution Factor by the listed Reporting Detection Limit. *** *** ND = Not detected: less than the sample specific Detection Limit, Results relate only to the items tested, ***

Page 1 of 1

Client Reports

Report Date 9/13/2000 0:50:50 AM



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2.0



Inks Dam NFH – Qtrs 66



Exterior Front



Exterior Front



Exterior Left



Exterior Back



Exterior Right





Inks Dam NFH – Qtrs 66



Garage



Front Entry Hall



Living Room



Kitchen



Utility



Bathroom

Inks Dam NFH – Qtrs 66



Bedroom 1



Bedroom 2



Bedroom 3



Enclosed Porch



Enclosed Porch