GSA Heartland Region
Safety and Environmental Management Team (6PEF-S)

05 Mar 2003

Ms. Christine O'Keefe
Missouri Department of Natural Resources
Land Protection Division's Hazardous Waste Program
P.O. Box 176
Jefferson City, MO 65102-0176

Re: Lead Abatement Plan for Federal Center, 607 Hardesty Avenue, Kansas City, MO

Dear Ms. O'Keefe:

Your letter dtd 24 February 2003 indicated you requested some additional information regarding the Lead Abatement Plan we have previously submitted for the Firing Range located in the basement of Building 9. This letter will provide the information you requested.

1. Attached to this letter are diagrams of the firing range prepared by Terracon.

2. We have conducted no lead testing of the paint at the Hardesty Federal Center. However, based upon the age of this facility, we suspect all paint as being lead-based. Prospective new owners for the site will be appraised of this assumption.

3. The lead sampling at the firing range was accomplished using Ghost Wipes, available through SKC Incorporated. Attached is an e:Mail from Terracon describing their sampling activity and a copy of the page from the SKC catalog describing the Ghost Wipes product. As indicated in the catalog, Ghost Wipes are moistened with deionized water, which would not be expected to remove any but surface lead contamination. As a consequence, we do not believe our sampling results are erroneous.

GSA will ensure this information is attached to the Lead Abatement Plan.

If you have any questions regarding this project, please do not hesitate to contact me at 816-823-2227 or david.hartshorn@gsa.gov.

Thank you,

Dave L. Hartshorn, CIH, CSP, CHMM
Industrial Hygienist

Attachments

U.S. General Services Administration
1500 E. Bannister Road
Kansas City, MO 64131

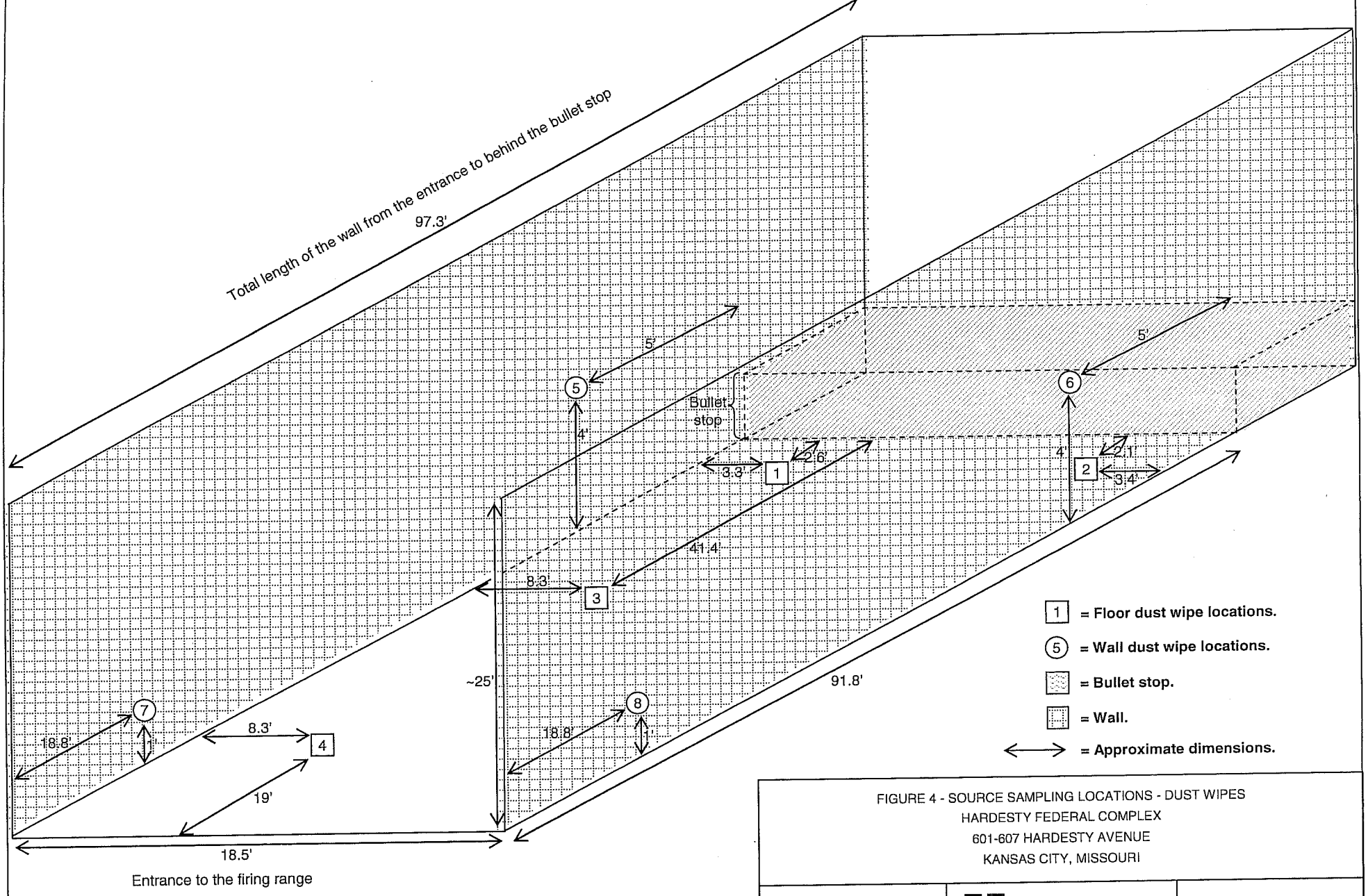
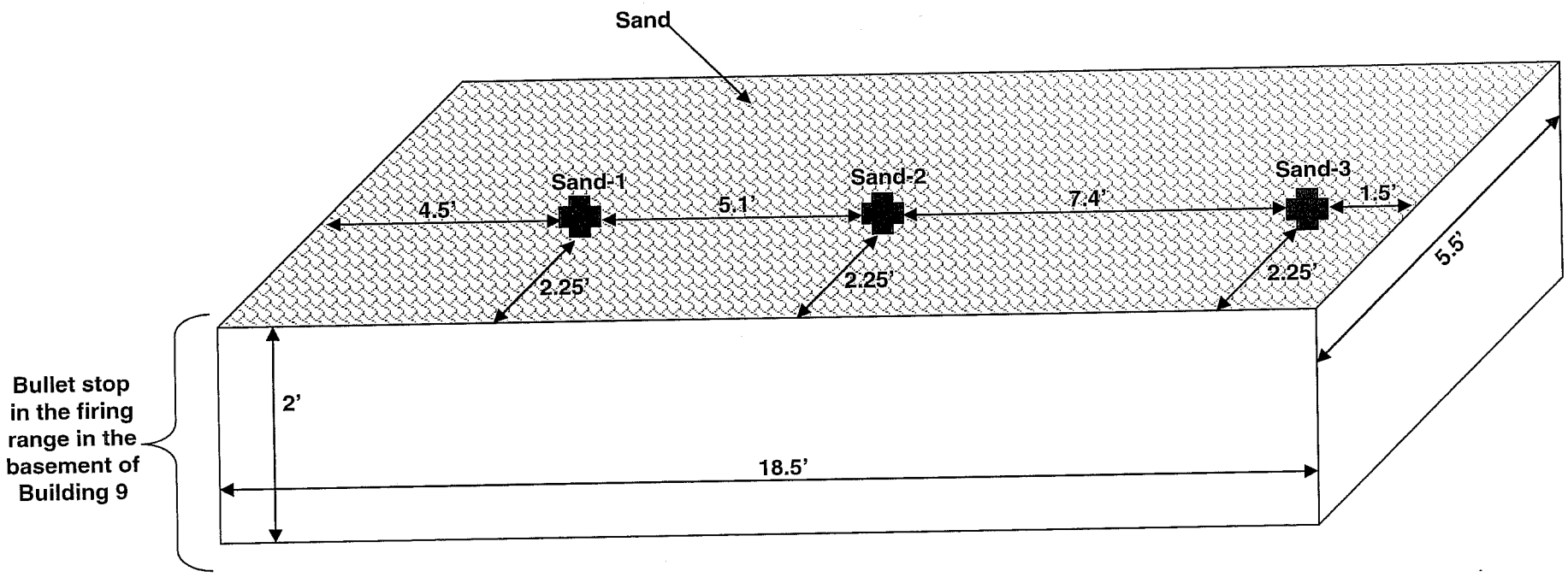


FIGURE 4 - SOURCE SAMPLING LOCATIONS - DUST WIPES
HARDESTY FEDERAL COMPLEX
601-607 HARDESTY AVENUE
KANSAS CITY, MISSOURI

Proj. Mngr: TAR	Terracon	Proj. # 02027042
Designed by: TAR	15950 College Blvd	FN: Figure 4.ppt
Drawn by: TAR	Lenexa, Kansas 66219	Date: 3/3/02



= Approximate Sampling Location

North

DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES. NOT TO SCALE.

FIGURE 3 - SOURCE SAMPLING LOCATIONS – SAND
HARDESTY FEDERAL COMPLEX
601-607 HARDESTY AVENUE
KANSAS CITY, MISSOURI

Proj. Mngr: TAR	Terracon	Proj. # 02027042
Designed by: TAR	15950 College Blvd	FN: Figure 3.ppt
Drawn by: TAR	Lenexa, Kansas 66219	Date: 3/3/02

"Ragland, Tracie A." <taragland@terracon.com>

27-02-2003 15:29

To: david.hartshorn@gsa.gov
cc: "Chantel, Rayne" <rchantel@terracon.com>
Subject: RE: Hardesty Firing Range

Dave,
Terracon used lead-free Ghost Wipes on a one-foot square surface area for each wipe. Let me know if you need anything else.
Tracie

-----Original Message-----
From: david.hartshorn@gsa.gov [mailto:david.hartshorn@gsa.gov]
Sent: Thursday, February 27, 2003 9:16 AM
To: Ragland, Tracie A.
Subject: Hardesty Firing Range

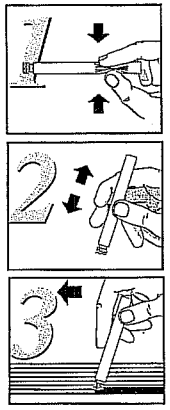
Tracie,

I am responding to MDNR on one final issue. It revolves around the lead sampling you accomplished in the Firing Range of Bldg. 9.

Pls let me know the procedure you used to collect the lead wipe samples from the floor and walls. Specifically, were the wipes wetted, with what
were they wetted (distilled water, I assume), and what surface area was wiped for each sample?

Thx for your assistance.

Dave



Surface Sampling Test Kits

For Fast On-the-spot Screening

➤ **Fast and easy-to-use**
- Three easy steps
- No instruments
- Results in minutes

➤ **Convenient**
- Can be used almost anywhere

➤ **Inexpensive**
- No instruments or analysis required

➤ **Easy-to-interpret**
- Positive confirmation procedures in each kit

Each surface sampling kit includes eight self-contained sampling swabs with all the materials required for a rapid screening test to detect a specific contaminant on surfaces and in liquids. Simply squeeze the swab to release the reagent, shake and squeeze gently until liquid appears on the tip of the swab, then wipe the surface area with the swab. Observe the color change which indicates the presence of the contaminant. Each swab is specific for the designated contaminant with no other materials reacting to give the same color. The swabs are convenient and can be used anywhere.

LeadCheck®

Each LeadCheck swab contains the materials required for a rapid screening test to detect lead (Pb) concentrations as low as 2 µg on most surfaces. The FDA reports that LeadCheck Swabs are able to detect the presence or absence of lead on 96.6% of the surfaces tested. LeadCheck Swabs meet NIOSH Method 7700 specifications.

LeadCheck Applications
- Paint of any color on any surface
- Food cans
- Ceramic glaze
- Solder
- Dinnerware
- Dust
- Toys

MercuryCheck®

Detects mercury (Hg^{+2}) on any solid surface with a sensitivity of 1 to 2 µg and 10 ppm in liquids.

NickelCheck™

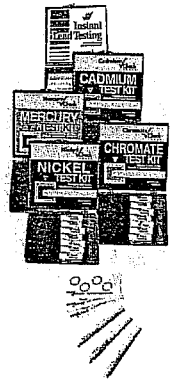
Detects nickel (Ni) or dust containing nickel on any solid surface with a sensitivity of 1 µg and 10 ppm in liquids.

CadmiumCheck™

Detects cadmium (Cd) on any solid surface with a sensitivity of 1 µg and 5 ppm in liquids.

ChromateCheck™

Detects chromate (CrO_4) or dust containing chromate on any solid surface with a sensitivity of 3 µg and 20 to 30 ppm chromate in liquid.

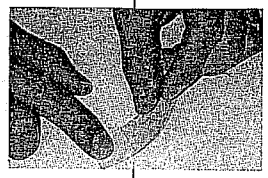


Hazard	Interferences	Cat. No.	Price/8
Lead (Pb)	No other metals react to give the same color response	225-2404	$ 24.00
Mercury (Hg^{+2})	Copper or silver ions may mask the mercury reaction	225-2407	41.00
Nickel (Ni)	None identified	225-2412	49.00
Cadmium (Cd)	High levels of chromium can prevent color development	225-2411	42.00
Chromate (CrO_4)	None identified	225-2410	48.00

For test kits for lead in soil and liquids
contact your SKC representative

Bio-Tape

Lift Tape for Surface Sampling



➤ **Easy-to-use and inexpensive**
➤ **Ensures predetermined 1 x 1-in sample area**
➤ **Slide made of flexible plastic for sampling irregular surfaces**
➤ **Individually serialized for sample identification**
➤ **Centering line on slide aids in sample location with microscope**
➤ **Maintains sample integrity**

The Bio-Tape consists of a flexible plastic microscope slide with an adhesive area. Simply identify the sample on the slide label, press the adhesive area to the surface, place the slide in the provided slide mailer, and send it to a laboratory for analysis.

Description	Cat. No.	No. of Boxes	Price/Qty.
Bio-Tape, pk/10	225-9545		$ 9.00
Bio-Tape, pk/50	225-9546	1 - 4	42.50
		5 - 9	40.38
		10 or more	38.25

Bulk package and quantity discounts available!

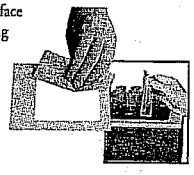
Smear Tabs
Smear Tabs are low-ash, acid-hardened paper designed for collecting samples on surfaces where dust and chemicals from the atmosphere have settled.

Smear Tabs
Cat. No. 225-24 ..... $ 19.00/100

Ghost Wipes

For Surface Lead or other Surface Metals

Ghost Wipes ease sample preparation and analysis of surface lead or other surface metals. The sturdy wiping material holds together even on the roughest wiping surfaces. In the lab, Ghost Wipes readily and completely dissolve during the digestion process to provide a more complete dispersion of analytes and uniform recoveries. With Ghost Wipes, there is no messy fibrous material in the sample to clog the sample uptake capillary or nebulizer. Ghost Wipes meet all ASTM E1792 specifications, the new AIHA policy on sampling materials for lead in surface dust, and the new OSHA method (pending).



Description	Cat. No.	Price/Qty.
Ghost Wipes, individually sealed packets, moistened with deionized water	225-2414	$ 39.00/200
(requires 10 x 10 cm template at right)	225-2413	160.00/1000

Templates for Wipe Sampling
Measures 1" x 1" for HUD Lead Guidelines, plastic
Cat. No. 225-2405 ..... $ 18.00/ea
Measures 10 x 10 cm, plastic (included in kit # 225-2401A)
Cat. No. 225-2403 ..... $ 17.00/ea
Measures 10 x 10 cm, disposable manila paper
Cat. No. 225-2415 ..... $ 44.00/250

Wipe Sample Test Kit

For Evaluating Surface Contamination

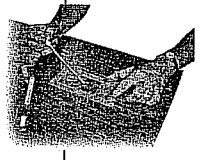
The Wipe Sample Test Kit provides the necessary supplies to sample surfaces for toxic materials. Each kit contains paper and glass fiber filters, sterile sample bags, latex gloves, cotton swabs, pH paper, dropper bottle, template (10 x 10 cm), marking pen, media for 20 wipe samples for lead (NIOSH 9100), micro slides, cover slips and tapes, and stainless steel forceps (solvents are not included).

Description	Cat. No.	Price/Ea.
Wipe Sample Test Kit	225-2401A	$ 239.00

Sterile Surface Swab Kit

For Biological Sampling

The easy-to-use Surface Swab Kit is ideal for determining the relative degree and type of biological contamination in an area. This non-destructive method can be used safely on most surfaces and materials.



Description	Cat. No.	Price/Qty.
Surface Swab Kit for Bioaerosols Includes 10 sterile swabs in transport tubes and 10 templates	225-2402*	$ 38.00/ea
Surface Swabs only	225-2400*	29.00/50

** Limited shelf-life*

For surface screening of contaminants and decontamination
see pages 132-133