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**OAK RIDGE
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LABORATORY**

MARTIN MARIETTA

**RESULTS OF THE RADIOLOGICAL
and
BERYLLIUM VERIFICATION SURVEY
at the
PEEK STREET SITE
SCHENECTADY, NEW YORK
(SY001V)**

**R. D. Foley
C. A. Johnson
R. F. Carrier
J. F. Allred**

**MANAGED BY
MARTIN MARIETTA ENERGY SYSTEMS, INC.
FOR THE UNITED STATES
DEPARTMENT OF ENERGY**

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HEALTH SCIENCES RESEARCH DIVISION
Waste Management Research and Development Programs
(Activity No. 61 3062401 NOG)

**Results of the Radiological and Beryllium Verification Survey at
the Peek Street Site, Schenectady, New York (SY001V)**

R. D. Foley, C. A. Johnson, R. F. Carrier, J. F. Allred

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Investigation Team
(Site code: SY001V)

R.D. Foley — Measurement Applications and Development Manager
W. D. Cottrell — FUSRAP Project Director

Survey Team Members

J. F. Allred	V. P. Patania
A. C. Butler*	D. E. Rice
R. L. Coleman	D. A. Rose
R. C. Gosslee	P. F. Tiner
K. R. Kleinhans	J. Wade
R. A. Mathis	W. Winton

*Midwest Technical, Inc.

Work performed by the
Measurement Applications and Development Group
Prepared by the
OAK RIDGE NATIONAL LABORATORY
Oak Ridge, Tennessee 37831-6285
managed by
MARTIN MARIETTA ENERGY SYSTEMS, INC.
for the
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Larry E. Williams
Authorizing Official

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ABSTRACT

At the request of the U.S. Department of Energy (DOE), a team from Oak Ridge National Laboratory conducted an independent verification radiological and non-radioactive beryllium survey at the Peek Street site, located at 425 Peek Street, Schenectady, New York. The purpose of the survey, conducted during 1993 and continuing through January 1994, was to confirm the success of the remedial actions performed to remove any beryllium concentrations or radioactive materials in excess of the identified guidelines. The verification survey included surface gamma scans and gamma readings at one meter indoors and outdoors, alpha and beta scans inside the structure, and the collection of soil, dust and debris samples and smears for radionuclide and beryllium analyses.

Results of the survey demonstrated that all radiological and beryllium measurements on the property were within applicable DOE guidelines. Based on all data collected, the industrial property at 425 Peek Street and the adjacent state-owned bike path in Schenectady, New York, conforms to all applicable radiological and non-radioactive beryllium guidelines established for this site by DOE and approved by the State of New York.

RESULTS OF THE RADIOLOGICAL and BERYLLIUM VERIFICATION SURVEY at the PEEK STREET SITE, SCHENECTADY, NEW YORK*

INTRODUCTION

Radioactive materials were used in a variety of operations conducted at 425 Peek Street, Schenectady, New York, an industrial facility operated by the General Electric Company for the Atomic Energy Commission (AEC) between 1947 and 1955. Nonradioactive beryllium metal was also machined on the site for breeder reactor application. The 4.5-acre site was decommissioned and released in October 1955.

At the request of the Office of Naval Reactors through the Office of Remedial Action and Waste Technology, a site visit and preliminary scoping survey of the Peek Street facility was conducted by Oak Ridge National (ORNL) in July 1988 and included the participation of representatives from New York State agencies.¹ The major portion of the State-owned bike path received a preliminary survey in November 1988. A comprehensive survey was performed between August and November 1989, with additional sampling in 1990 to definitively characterize current radiological conditions at the site.²

The results of that survey indicated the existence of small isolated areas that exceeded DOE radiological guidelines. Samples were also analyzed for elemental beryllium since that material had formerly been used at the site. In conjunction with the planned remediation at the facility, a supplementary characterization survey was performed to further define the areas containing beryllium in excess of the identified guidelines. Additional radiological characterization was also performed in areas that were largely inaccessible prior to the remediation efforts. This supplementary survey was performed by ORNL during the period March through December 1993.³

Site-specific guidelines of 2 $\mu\text{g}/\text{ft}^2$ for indoor surfaces and 13 $\mu\text{g}/\text{g}$ for interior drains and outdoor soil concentrations of beryllium were developed for purposes of the remedial action and verification of the property at Peek Street. Table 1 lists all guidelines derived for this site by the DOE and approved by the State of New York. Not specifically listed in the table is the guideline for beta-gamma surface contamination that was used here where alpha activity levels were masked by structural surface treatments such as paint. That is, the guideline for total indoor alpha surface contamination resulting from ^{238}U residuals (5,000 dpm/100 cm^2 , Table 1) was also used for directly measured beta-gamma activity levels. In addition, the established guidelines listed in Table 1 for beta-gamma dose rates were applied.

*The survey was performed by members of the Measurement Applications and Development Group of the Health Sciences Research Division of Oak Ridge National Laboratory under DOE contract DE-AC05-84OR21400.

Remedial efforts were instituted by management at the Knolls Atomic Power Laboratory (KAPL), the project Remedial Action Contractor, wherever results of the previous surveys indicated the presence of elevated radiation or non-radioactive, elemental beryllium measurements. Their task was to ensure that radiation levels and radionuclide concentrations met DOE guidelines, and that all beryllium in excess of the established guidelines had been removed. Some of the remedial efforts were undertaken by Argonne National Laboratory (e.g., initial radiological remediation in the vault, the wall and floor around column 26E, and excavation of the outside area east of the center section of the factory building). Additionally, KAPL excavated areas of the concrete floors to gain access to drain headers for further measurements, and removed some drainlines that had exceeded criteria. Drains were either permanently removed or replaced with new pipes, and the area restored. Allwash of Syracuse, Inc., remediation subcontractor, performed the beryllium removal. All remedial actions were completed by December 1993.⁴

It is DOE policy to assign an Independent Verification Contractor to ensure the effectiveness of such remedial actions. The Measurement Applications and Development Group of Oak Ridge National Laboratory (ORNL) was given responsibility for this task at 425 Peek Street. Because of an overlap between the supplementary characterization survey and the initiation of remedial action at the facility, some data relevant to the characterization were collected during the independent verification survey. This report describes the methods and results of the verification survey that was conducted during 1993 and continued until mid-January 1994. Figure 1 is a diagram of the layout of the factory building on the industrial property at 425 Peek Street.

VERIFICATION PROCEDURES

OBJECTIVES

The objective of the verification was to confirm that the remedial action reduced radioactivity and beryllium levels to within the DOE guidelines. Beryllium concentration limits and applicable DOE guidelines for protection against radiation are shown in Table 1. Typical background values for radiation in the Schenectady area are shown in Table 2.

SURVEY METHODS

The post-remedial action survey was performed on this property as described for a generic site.⁵ This survey consists of surface-level alpha and beta-gamma measurements, surface and 1 m gamma measurements, smears, and systematic soil and miscellaneous debris sampling.

The following procedures were performed to assess the success of the cleanup activities with respect to beryllium and radiological residuals.

Radiological Survey

The verification survey included:

- direct alpha and beta-gamma radiation levels taken in each area being smeared or sampled during the beryllium characterization;
- alpha and beta-gamma scans of indoor structural areas, including areas previously identified as above guidelines or previously inaccessible;
- gamma exposure rates at ground level and at 1-meter from the surface both inside and outside the building;
- collection and analysis of smears taken from selected areas inside the structure to determine radionuclide content; and
- collection and analysis of soil samples taken from areas outside around the rotoclone stack east of the building, and in the vault where the concrete floor was removed.

Indoors, radiological measurements included gamma exposure rates and directly measured alpha and beta-gamma surface activity levels taken wherever smear/sampling was done. Smears and/or samples of dust and debris were collected at systematic locations, including in selected sections of sanitary and storm drain lines, boilers, and stack interiors, to determine transferable and fixed radiation levels. Drain lines were also scanned for beta-gamma activity to the point of absolute refusal. Samples of brick from outside the facility stack were collected and analyzed to establish a background reference. Background concentrations have not been subtracted from the analytical results.

Outdoors, a portable sodium iodide gamma scintillation instrument was used to obtain ranges of measurements for areas of the property surface and at one meter above the surface. Surface and subsurface soil samples were systematically collected and analyzed from the adjacent fenced-in area on the east side of the building containing the rotoclone stack (see Figs. 1 and 2).

The collection locations of smears and dust and soil samples are indicated on Figs 2-8. Results and analyses are shown in Tables 3 and 4. Table 5 has more detailed comments on some of the samples. Because characterization and verification activities were often carried out concurrently but in different locations, sample numbers are not in consecutive order.

Beryllium Survey

The verification survey included:

- visual inspections for dust or debris on all surfaces;
- systematic collection and analysis of wet and dry smears and/or samples of dust and debris on horizontal and other structure surfaces such as walls, ceilings, floors, bridging (cross bracing) and stringers (rafters), beams, trusses, cables, pipes, window ledges, light fixtures, and air moving equipment;
- collection and analysis of smears and samples from selected sections of sanitary and storm drain lines and stack interiors; and

- collection and analysis of samples from underlying materials of the roof and any other areas previously above guidelines or inaccessible.

The method of sample collection on the hard surfaces inside the building was dependent on the surface loading. Surfaces were wiped with dry smears, or the smear paper was moistened with distilled water prior to wiping the surface. A relatively dust-free surface was sampled according to the procedure described in the Department of Energy's (DOE) *Environmental Implementation Guide for Radiological Survey Procedures*, Draft, November 1992. The analytical results for these samples were then used to calculate beryllium concentration per area ($\mu\text{g}/\text{ft}^2$) or per mass ($\mu\text{g}/\text{g}$) for comparison with the established site-specific guideline value. Some areas were cleaned and smeared several times before surfaces were visibly clean and all measurements were less than guideline values. Radiological measurements were also performed on all surfaces within the building prior to collecting beryllium smears or samples.

VERIFICATION SURVEY AND ANALYSIS

Typical background radiation levels for the Schenectady, New York, area are listed in Table 2. The data are provided for purposes of comparison with the survey results presented in this section.

Direct measurement results presented in this report are gross readings; background radiation levels have not been subtracted. Similarly, background radiation levels have not been subtracted from radionuclide concentrations measured in environmental samples.

RADIOLOGICAL SURVEY RESULTS

Outdoors, gamma exposure rates taken at the ground surface in the area of the rotoclone exhaust stack (adjacent to the east side of the building, Fig. 1) ranged from 14 to 16 $\mu\text{R}/\text{h}$, a range comparable to typical background levels recorded for the Schenectady area of 5 to 14 $\mu\text{R}/\text{h}$. Gamma exposure rates taken throughout the outdoor areas during the previous characterization surveys were all comparable to typical background levels for the area, with the exception of the rotoclone area where elevated radiological and beryllium levels were initially found. The area has since been excavated and remediated.

In the rotoclone area, surface and subsurface soil samples were taken systematically, using the grid lines drawn by ANL, and analyzed for radionuclide concentrations. After complete remediation, the maximum concentrations of ^{226}Ra and ^{232}Th in both surface and subsurface soil were 1.1 pCi/g and 1.5 pCi/g, respectively. These results approximate average background concentrations (Table 2). Applying the principles of ALARA (As Low As Reasonably Achievable), the maximum concentrations of ^{238}U in surface and subsurface samples following remediation were 3.6 and 2.6 pCi/g, respectively. These values are well below the 35 pCi/g guideline for ^{238}U that was derived for this site (see Table 1). Sample locations are shown in Fig. 2. One soil sample was also taken from

beneath the concrete floor in the vault (Fig. 4), after the entire floor was remediated by scabbling. Analysis of the soil showed background levels of ^{226}Ra and ^{232}Th , and a maximum of 10 pCi/g of U^{238} , which is well below DOE guidelines. Results of the analyses are listed in Table 3.

Indoors, directly measured beta-gamma levels were checked on each structure wherever smears/samples were taken for beryllium analysis. Most suitably smooth surfaces were also checked for directly measured alpha radiation. All of these measurements were below the minimum detectable activity (MDA)** for directly measured alpha and beta-gamma levels. In addition, all smears analyzed for transferable alpha and beta-gamma activity were also less than MDA. The general locations of these samples are shown on Fig. 8.

The characterization and supplementary survey reports^{2,3} indicated elevated beta-gamma radiation levels inside the building in drains and drain lines, the former "chem area," and floor of the vault. Additionally, radiological measurements and samples containing localized radionuclide concentrations (i.e., concentrations of ^{238}U) higher than the site-specific guidelines were found in the vault, stack thimble in the boiler room, drains and drain lines, and the original floor of Bay 1-2. These areas were remediated by KAPL and scanned and sampled again by ORNL for verification. Final radiological measurements were well below DOE guidelines.

BERYLLIUM SURVEY RESULTS

Beryllium sampling and analysis done in the previous characterization surveys showed that scattered locations in indoor areas contained elevated levels of beryllium. These areas were located mainly in the overhead structures and in Bays 22-23 through 27-28. After complete remediation by KAPL, verification samples and smears were taken by ORNL to determine the effectiveness of the remediation.

The final measurements for beryllium taken in these areas were all well below the established guidelines for this site. Results are shown in Tables 4 and 5 listed alphanumerically by sample number. Table 5 is a listing of samples with more detailed comments. Locations of the samples/smears can be found on Figs. 3-8, depending on whether they are floor-level, drain, horizontal surface, or upper level samples.

OVERCHECKS BY NEW YORK STATE

Representatives of the New York State Department of Environmental Conservation Bureau of Radiation conducted additional independent overcheck surveys on December 23

**The MDA for directly measured alpha levels and beta-gamma dose rates is 25 dpm/100 cm² and 0.01 mrad/h, respectively. The MDA for transferable alpha activity is 10 dpm/100 cm², and 200 dpm/100 cm² for transferable beta-gamma activity.

1993 for residual radioactivity. The results of these surveys showed no radioactivity above natural background levels.⁶

CONCLUSION

Results of this independent radiological and beryllium verification survey at 425 Peek Street show no evidence for the presence of elevated levels of radioactive residuals indoors or outdoors on the property. Radiation levels, concentrations of radionuclides, and non-radioactive, elemental beryllium in samples and smears were all below guidelines formulated for the site.

Based on all data collected, the industrial property at 425 Peek Street and the adjacent state-owned bike path in Schenectady, New York, conforms to all applicable non-radioactive beryllium and radionuclide guidelines established for this site.

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Fig. 1. Diagram showing the layout of the factory building on the industrial property at 425 Peek Street, Schenectady, New York.

Fig. 2. Diagram showing gamma measurements and soil sampling locations in the gridded area on the east side of the factory building at 425 Peek St., Schenectady, New York.

RADIOLOGICAL AND BERYLLIUM VERIFICATION SURVEY OF DRAIN SYSTEM

ORNL-DWG 94-5955

Fig. 3. Diagram showing locations of samples and smears relative to the drains and sanitary waste lines inside the factory building at the Peek Street site. Beryllium results are shown in Table 4. Direct radiological measurements taken at each sample location were <MDA (see text).

RADIOLOGICAL AND BERYLLIUM VERIFICATION SURVEY OF FLOORS AND VARIOUS SURFACES

PEEK STREET SITE
SCHENECTADY, NY
SY001

- FLOOR
- TOP OF STEAM OR SPRINKLER LINE
- ▲ TOP OF SUSPENDED HEATER OR LIGHT FIXTURE
- △ MISCELLANEOUS STRUCTURE
- SOIL SAMPLE

Fig. 4. Diagram showing the smear and sample locations taken from the floor and various horizontal surfaces inside the factory building. Beryllium results are shown in Table 4. Direct radiological measurements taken at each sample location were <MDA (see text).

Fig. 5. Close up diagram of room MS-10 and adjacent boiler room showing locations of samples and smears taken from the floor and miscellaneous horizontal surfaces. Beryllium results are shown in Table 4. Direct radiological measurements taken at each sample location were <MDA (see text).

Fig. 6. Diagram showing the locations of samples and smears taken from overhead surfaces in the factory building at the Peek Street site. Beryllium results are shown in Table 4. Direct radiological measurements taken at each sample location were <MDA (see text).

RADIOLOGICAL AND BERYLLIUM VERIFICATION SURVEY
OF HORIZONTAL SURFACES

ORNL-DWG 94-5932

VERIFICATION RADIOLOGICAL ANALYSIS OF SMEARS
[SMEARS WERE ALL <MDA]

Fig. 8. Diagram of the factory building showing general locations of radiological smears taken throughout the building that measured less than minimum detectable activity (<MDA) for transferable alpha and beta-gamma levels.

Table 1. Applicable Guidelines for the Peek Street site

Mode of exposure	Guideline value ^a
²³⁸ U in soil	35 pCi/g
²³⁸ U in indoor dust, removable alpha activity	1000 dpm/100 cm ²
²³⁸ U indoors as fixed plus removable alpha surface contamination	5000 dpm/100 cm ²
²³⁸ U in air	2×10^{-12} μ Ci/mL
Beta-gamma dose rate at 1 cm from the surface averaged over not more than 1m ² area	0.2 mrad/h
Maximum beta-gamma dose rate at 1 cm from the surface over any 100-cm ² area	1.0 mrad/h
Gamma exposure rate indoors at 1 m above the surface above background	20 μ R/h
Beryllium in removable surface dust	2 μ g/ft ²
Beryllium in air	
• 8-hr average	2 μ g/m ³
• acceptable ceiling	5 μ g/m ³
• never to be exceeded	25 μ g/m ³
Beryllium in soil	13 μ g/g
¹³⁷ Cs in soil	34 pCi/g

^aSee R. D. Foley et. al., ORNL-6623/Supplement.³

Table 2. Background radiation levels and concentrations of selected radionuclides in soil samples taken in the Schenectady and Glenville, New York area

Type of radiation measurement or sample	Radiation level or radionuclide concentration ^a	
	Range	Average
Gamma exposure rate at ground surface ($\mu\text{R/h}$) ^a	----	10
Gamma exposure rate at 1 m above floor or ground surface ($\mu\text{R/h}$) ^b	5-14	9.5
Concentration of radionuclides in soil (pCi/g dry wt) ^a		
²²⁶ Ra	0.83-0.98	0.93
²³² Th	0.81-0.95	0.89
²³⁸ U	0.94-1.3	1.2

^a Values and soil samples (SY002S75-SY002S77) were obtained from three undisturbed locations near the Sacandaga site in Glenville.²

^b Background at Schenectady determined in 1982 by EG&G over 260 km² area.²

Table 3. Concentrations of radionuclides in soil samples collected for the independent verification of the property at 425 Peek Street, Schenectady, New York

Sample ID	Location ^a	Depth (cm)	Comments	Radionuclide concentration (pCi/g) ^b		
				²²⁶ Ra	²³² Th	²³⁸ U
VS1	Vault	c	From under 8 in. concrete	0.37 ± 0.04	0.28 ± 0.07	10 ± 2.5
VS15A	B1*	0-5	12 in. below excavation	1.0 ± 0.11	0.91 ± 0.07	1.2 ± 0.43
VS15B	B1*	5-15	12 in. below excavation	0.82 ± 0.06	0.99 ± 0.14	0.96 ± 0.50
VS16A	E1*	0-5	12.5 in. below excavation	0.43 ± 0.05	0.52 ± 0.11	0.93 ± 0.40
VS16B	E1*	5-15	12.5 in. below excavation	0.60 ± 0.10	0.88 ± 0.08	0.74 ± 0.49
VS17A	B5*	0-5	15 in. below excavation	0.74 ± 0.04	0.69 ± 0.09	0.96 ± 0.35
VS17B	B5*	5-15	15 in. below excavation	1.0 ± 0.07	0.96 ± 0.11	1.1 ± 0.40
VS18A	E5*	0-5	16.5 in. below excavation	0.98 ± 0.06	1.1 ± 0.16	2.8 ± 0.53
VS18B	E5*	5-15	16.5 in. below excavation	1.1 ± 0.08	1.5 ± 0.11	2.6 ± 0.62
VS19A	A8*	0-5	21 in. below excavation	1.1 ± 0.06	1.3 ± 0.15	2.6 ± 0.70
VS19B	A8*	5-15	21 in. below excavation	1.0 ± 0.07	1.5 ± 0.10	1.3 ± 0.56
VS20A	F8*	0-5	16 in. below excavation	0.88 ± 0.06	0.82 ± 0.12	0.87 ± 0.50
VS20B	F8*	5-15	16 in. below excavation	1.0 ± 0.12	0.81 ± 0.07	1.4 ± 0.46
VS21A	C12*	0-5	18 in. below excavation	1.1 ± 0.13	0.91 ± 0.08	1.6 ± 0.51
VS21B	C12*	5-15	18 in. below excavation	1.1 ± 0.11	0.96 ± 0.08	2.0 ± 0.26
VS22A	E16*	0-5	12.5 in. below excavation	1.1 ± 0.08	1.2 ± 0.16	3.6 ± 0.63
VS22B	E16*	5-15	Center	0.82 ± 0.06	0.85 ± 0.11	2.5 ± 0.53

^aAlphanumeric grid designations (*) refer to an ANL grid established in the former Rotoclone area outside the central-eastern part of the building (Fig. 2).

^bIndicated counting error is at the 95% confidence level ($\pm 2\sigma$).

^cNot applicable.

Table 4. Alphanumeric listing of samples, locations, and beryllium results for the independent verification survey of 425 Peek Street

Sample ID ^a	Bay/room/ structure/ area ^b	(μg/g) (μg) [*]	Be/area (μg/ft ²) ^d	Location in bay	Be ^c
					Location notes ^e
VM406	Drain 10	0.99	<i>f</i>	Drain	Composite sample in interval 3 to 8 in. (involving walls) & neck of drain pipe
VM408	Drain 11	0.76	<i>f</i>	Drain	All sidewalls samples no horiz. sample
VM410	Drain 13	0.67	<i>f</i>	Drain	15 in depth sampled 1.5 - 15 in.
VM412	Drain 15	2.0	<i>f</i>	Drain	Accessible depth sampled - 10.5 in.
VM414	Drain 16	0.65	<i>f</i>	Drain	Accessible depth sampled - 12 in. From connecting neck Pipe A to B
VM416	Drain 17	0.94	<i>f</i>	Drain	Drain depth = 6 in. pipe size = 2 in.
VM418	Drain 18	0.55	<i>f</i>	Drain	Sample taken from various locations in pit bottom drain depth = 32 in.
VM420	Drain 24	6.1	<i>f</i>	Drain	Drain depth = 13 in. Pipe A = 3 in. & Pipe B = 4 in.
VM424	Drain 48	3.6	<i>f</i>	Drain	Drain depth = 12 in.; pipe size = 3¼ in.; liquid present in drain (oily)
VM425	Drain 48	0.36	<i>f</i>	Drain	Oily sludge
VM427	Drain 49	0.99	<i>f</i>	Drain	Drain depth = 11.5 in.; pipe size 2.5 in.
VM429	Drain 26	0.65	<i>f</i>	Drain	Drain depth = 50 in. & pipe size is 3.5 in.
VM432	Drain 16	1.0	<i>f</i>	Drain	From horiz. pipe just N of Drain 16 cutout, previously cleaned out and surveyed 9/16/93
VM437	Drain 19	0.35	<i>f</i>	Drain	Composite sample from bottom of manhole sump
VM438	Drain 19	0.27	<i>f</i>	Drain	Core of sludge from the manhole sump; KAPL no. 1
VM439	Drain 19	0.34	<i>f</i>	Drain	Core of sludge from the manhole sump; KAPL no. 2
VM440	Drain 19	0.27	<i>f</i>	Drain	Core of sludge from the manhole sump; KAPL no. 3
VM443	31W	0.47	<i>f</i>	Floor	Floor 7 ft E & 3 ft 4 in. N of Col. 31W
VM444	32E	0.55	<i>f</i>	Floor	6 in. W & 1 ft 7 in. N of Col. 32E
VM445	38W	0.49	<i>f</i>	Floor	20 ft & 11 in. E and 5 ft & 3 in. N of Col. 38W
VM446	34E	0.39	<i>f</i>	Floor	4 ft 10 in. N & 1 ft 11 in. W of Col. 34E
VM447	10-11W	1.9	<i>f</i>	Other	Light fixture on Truss 11, 1/3 of the way (east) over towards peak
VM448	2-3N	1.4	<i>f</i>	Other	Light fixture on Truss 2, 1/4 of the way over (south) towards peak
VM449	36W	0.85	<i>f</i>	Floor	Original floor (under styrofoam) in refrig. room 20 ft W & 20 ft N of Col. 36W
VM450	39W	0.40	<i>f</i>	Floor	Original floor (under styrofoam) in refrigeration room 20 ft W of Col. 39W

Table 4. (continued)

Sample ID ^a	Bay/room/structure/ area ^b	Be ^c ($\mu\text{g/g}$) [*]	Be/area ($\mu\text{g/ft}^2$) ^d	Location in bay	Location notes ^e
VM451	40W	0.75	<i>f</i>	Floor	Original floor (under styrofoam) in refrig. rm. 2 ft W & 4 ft S of Col. 40W
VM452	39W	0.30	<i>f</i>	Floor	Original floor (under styrofoam) in refrig. rm. 6 ft S & 2 ft W of Col. 39W
VM453	36W	0.70	<i>f</i>	Floor	Original floor (under styrofoam) in refrig. rm. 8 ft N & 2 ft W of Col. 36W
VM454	28W	1.4	<i>f</i>	Wall	Boiler room sand pit, 6.5 ft S & 19 ft W of Col. 28W (west outside wall of bldg.)
VM455	28W	1.3	<i>f</i>	Wall	Boiler room sand pit, 11 ft W of Col. 28W, north wall
VM456	28W	1.2	<i>f</i>	Wall	Boiler room sand pit, 6 ft S of Col. 28W, east wall
VM457	Drain 4	<1.0	<i>f</i>	Drain	Drain 3 at 26 ft W & 4 ft S of Col. 23E; sample aliquoted for ORNL (VM458)
VM461	Drain	1.5	<i>f</i>	Drain	Drainline at 28 ft W & 11 ft S of Col. 30E; sample aliquoted for ORNL (VM462)
VM463	15-16E	1.5	<i>f</i>	Other	Light fixture 15 ft W from E wall at Col. 15E. Material could possibly be dust.
VM464	38W	0.30	<i>f</i>	Floor	Original floor after styrofoam & concrete removed in refrig. room near Col. 38W
VM465	38W	0.40	<i>f</i>	Floor	Original floor after removal of top concrete & styrofoam in refrig. rm. near Col. 38W
VM466	39W	0.80	<i>f</i>	Floor	Refrig. rm original floor after removal of top concrete & styrofoam near Col. 39W
VM468	8E	1.2	<i>f</i>	Floor	Storm sewer basin floor about 30 ft W of Col. 8E & 10 ft S of Col. line 8
VM470	Wood shop	1.2	<i>f</i>	Drain 19	Sludge sample from bottom of manhole in wood shop
VM472	23E	<3.0	<i>f</i>	Drain	Inside drain pipe (lateral line running just N of Col. 23E) access opening
VM476	2S	1.0	<i>f</i>	Drain	Drain debris at 41 ft N & 9.5 ft W of Col. 2S.
VM477	2S	1.0	<i>f</i>	Drain	Horizontal run debris 35.5 ft N & 9.5 ft W of Col. 2S. Disposed.
VM479	Drain 52	1.0	<i>f</i>	Drain	Drain 52 10 ft S of Col. 4N in line with Col.
VM481	Drain 57	1.0	<i>f</i>	Drain	Drain 57 at 36 ft S & 7 ft E of Col. 5N
VM483	Drain 71	1.0	<i>f</i>	Drain	Material from drain at 38 ft N & 8.5 ft W of Col. 2S
VM487	Drain	1.0	<i>f</i>	Drain	Drainline 30 ft W & 1 ft S of Col. 27E
VM489	Drain	1.0	<i>f</i>	Drain	Drainline (to be assigned) at 38 ft N & 11.5 ft W of Col. 2S

Table 4. (continued)

Sample ID ^a	Bay/room/ structure/ area ^b	Be ^c ($\mu\text{g/g}$) (μg) [*]	Be/area ($\mu\text{g}/\text{ft}^2$) ^d	Location in bay	Location notes ^e
VM490	Drain 36	1.0	<i>f</i>	Drain	Scooped from debris at 16 in. depth of floor drain 4 ft N & 8 ft E of Col. 24W
VM492	Drain 35	1.0	<i>f</i>	Drain	Drain pipe composite at all depths to 24 in. at 4 ft N & 10.5 ft E of Col. 24W
VM493	Drain 68A	1.0	<i>f</i>	Drain	Horizontal drain pipe scoop (bottom radius along entire 12 in. length) at Col. 32W
VM494	Drain	1.0	<i>f</i>	Drain	Drain pipe scoop composite (entire sidewall depths to 16 in.) 3 ft N of Col. 32W
VM496	Drain 63	1.0	<i>f</i>	Drain	Drain to main trunkline (scooped bottom radius) at 0 ft N & 27 ft W of Col. 44E
VM497	Drain 77	1.0	<i>f</i>	Drain	Drain pipe (scooped to depth of 3 in. to horizontal access debris) at Col. 42W
VM499	Drain 69	1.9	<i>f</i>	Drain	Roof drain 2 scoop (to depth of 3.5 ft) at 0 ft N & 18 ft E of Col. 37W
VM502	Drain 66	5.0	<i>f</i>	Drain	Horizontal drain line opening at 11 ft E & 14 ft N of Col. 26W
VM504	Drain 72	1.0	<i>f</i>	Drain	Vertical drain opening at 18 ft E & 12 ft N of Col. 26W at floor level
VM506	Drain	1.0	<i>f</i>	Drain	Horizontal (lateral) drain line opening at 12 ft & 20 ft E of Col. 26W.
VM507	Drain 7	1.3	<i>f</i>	Drain	Horizontal drain line opening at 21 ft E of Col. 27W
VM508	Drain 44	1.0	<i>f</i>	Drain	Lateral (horizontal) drain line opening at 24 ft W & 8 ft S of Col. 30E
VM510	Drain	6.0	<i>f</i>	Drain	Horizontal drain line opening located 18 ft E & 1 ft S of Col. 34W
VM514	Drain 53	9.5	<i>f</i>	Drain	Cast iron drain pipe (scooped at 14 in. depth) 15.33 ft S & 7.5 ft E of Col. 4N
VM515	MS-1	0.46	<i>f</i>	Stack	Center of stack floor with sample chiseled from concrete floor
VM517	MS-1	0.21	<i>f</i>	Stack	Stack S inside wall (fire brick surface) at 8.5 ft above the stack floor level
VM518	MS-1	0.20	<i>f</i>	Stack	Stack west side wall (inside) at 20 ft above the stack floor level
VM519	MS-1	0.88	<i>f</i>	Stack	Stack north inside wall (red brick surface) at 30 ft above stack floor level
VM520	MS-1	0.38	<i>f</i>	Stack	Stack east inside wall (red brick surface) at 40 ft above the stack floor level

Table 4. (continued)

Sample ID ^a	Bay/room/structure/area ^b	Be ^c ($\mu\text{g/g}$) (μg) [*]	Be/area ($\mu\text{g}/\text{ft}^2$) ^d	Location in bay	Location notes ^e
VM521	MS-1	0.54	<i>f</i>	Stack	Red brick surface of the stack east inside wall directly above sample VM520
VM522	MS-1	0.36	<i>f</i>	Stack	South inside wall (red brick surface) of stack at 50 ft above stack floor level
VM523	MS-1	0.15	<i>f</i>	Stack	Fire brick from stack south thimble opening at 10 ft above stack floor
VM525	Drain 51	0.08	<i>f</i>	Drain	Sample collected from sidewalls of Drain 51 (18 in. depth to elbow)
VM526	MS-1	1.5	<i>f</i>	Stack	Unexposed brick (exposed chiseled away) outside west wall of stack in MS-10
VM528	Boiler	<0.10	<i>f</i>	Boiler	Plated deposit (scraped with putty knife; prob. calcium) from inside surface of boiler plate
VM529	Boiler	<0.10	<i>f</i>	Boiler	Scraping from outside surface of tube (west end boiler) at 15 in. from end of tube
VM532	26W	0.12	<i>f</i>	Drain	Drain sidewall composite to depth of 6 in. at 12 ft S & 4 ft W of Col. 26W
VM533	Drain 48	9.4	<i>f</i>	Drain	Drain composite (basin & partial NW sidewall to a 5 in. depth) near Col. 27W
VT268	MS-1	1.1*	<i>f</i>	Stack	Sample from stack thimble
VT270	Drain 9	0.10 *	<i>f</i>	Drain	Drain 9 appears to have a 4 in. diameter; See additional comments
VT272	Drain 12	0.10 *	<i>f</i>	Drain	"insuff. mat'l for sample"
VT274	Drain 14	0.10 *	<i>f</i>	Drain	Drain 14 appears to have a 4 in. diameter
VT276	Drain 20	0.10 *	<i>f</i>	Drain	Drain depth = 50 in. pipe size = 3.5 in.
VT278	Drain 47	0.10 *	<i>f</i>	Drain	Drain depth = 16 in.; pipe size = 3.5 in.; smear taken 2E pipe coming into A
VT279	NE bldg.	0.19 *	0.19	Floor	9 ft S & 14 ft W of NE corner of building
VT280	43E	0.15 *	0.15	Floor	9 ft S & 14 ft W of Col. 43E
VT281	42E	0.15 *	0.15	Floor	9 ft S & 14 ft W of Col. 42E
VT282	41E	0.23 *	0.23	Floor	9 ft S & 14 ft W of Col. 41E
VT283	40E	0.19 *	0.19	Floor	9 ft S & 14 ft W of Col. 40E
VT284	39E	0.24 *	0.24	Floor	9 ft S & 14 ft W of Col. 39E
VT285	38E	0.29 *	0.29	Floor	9 ft S & 14 ft W of Col. 38E
VT286	37E	0.27 *	0.27	Floor	9 ft S & 14 ft W of Col. 37E
VT287	36E	0.26 *	0.26	Floor	9 ft S & 14 ft W of Col. 36E

Table 4. (continued)

Sample ID ^a	Bay/room/ structure/ area ^b	Be ^c ($\mu\text{g/g}$) (μg)*	Be/area ($\mu\text{g/ft}^2$) ^d	Location in bay	Location notes ^e
VT288	35E	0.24 *	0.24	Floor	9 ft S & 14 ft W of Col. 35E
VT289	34E	0.21 *	0.21	Floor	9' S & 14' W of Col. 34E
VT290	33E	0.27 *	0.27	Floor	9 ft S & 14 ft W of Col. 33E
VT291	32E	0.28 *	0.28	Floor	9 ft S & 14 ft W of Col. 32E
VT292	32W	0.23 *	0.23	Floor	9 ft S & 14 ft E of Col. 32W
VT293	33W	0.27 *	0.27	Floor	9 ft S & 14 ft E of Col. 33W
VT294	34W	0.21 *	0.21	Floor	9 ft S & 14 ft E of Col. 34W
VT295	35W	0.27 *	0.27	Floor	9 ft S & 14 ft E of Col. 35W
VT296	36W	0.24 *	0.24	Floor	9 ft S & 14 ft E of Col. 36W
VT297	37W	0.22 *	0.22	Floor	9 ft S & 14 ft E of Col. 37W
VT298	38W	0.23 *	0.23	Floor	9 ft S & 14 ft E of Col. 38W
VT299	39W	0.26 *	0.26	Floor	9 ft S & 14 ft E of Col. 39W
VT300	40W	0.28 *	0.28	Floor	9 ft S & 14 ft E of Col. 40W
VT301	41W	0.24 *	0.24	Floor	9 ft S & 14 ft E of Col. 41W
VT302	42W	0.18 *	0.18	Floor	9 ft S & 14 ft E of Col. 42W
VT303	43W	0.20 *	0.20	Floor	9 ft S & 14 ft E of Col. 43W
VT304	NW bldg.	0.19 *	0.19	Floor	9 ft S & 14 ft E of NW corner of building
VT305	43W	0.21 *	0.21	Floor	Floor smear at 10 ft S and 4 ft & 5 in. W of Col. 43W
VT306	42W	0.23 *	0.23	Floor	Floor smear at 10 ft S and 8 ft & 5 in. W of Col. 42W
VT307	41W	0.22 *	0.22	Floor	Floor smear at 8 ft S and 9 ft & 5 in. W of Col. 41W
VT308	40W	0.18 *	0.18	Floor	Floor smear at 10 ft & 5 in. W & 2 ft S of Col. 40W
VT309	40W	0.19 *	0.19	Floor	Floor smear at 12 ft S and 10 ft & 5 in. W of Col. 40W
VT310	39W	0.22 *	0.22	Floor	Floor smear at 9 ft S and 10 ft & 5 in. W of Col. 39W
VT311	38W	0.23 *	0.23	Floor	Floor smear at 9 ft S and 10 ft & 5 in. W of Col. 38W
VT312	37W	0.21 *	0.21	Floor	Floor smear at 9 ft S and 10 ft & 5 in. W of Col. 37W
VT313	36W	0.20 *	0.20	Floor	Floor smear at 9 ft S & 10 ft W of Col. 36W
VT314	31-32E	0.21 *	0.32	Window	Window ledge between Col. 31E & 32E

Table 4. (continued)

Sample ID ^a	Bay/room/ structure/ area ^b	Be ^c ($\mu\text{g/g}$) (μg) [*]	Be/area ($\mu\text{g/ft}^2$) ^d	Location in bay	Location notes ^e
VT315	33-34E	0.19 *	0.19	Window	Window ledge between Col. 33E & 34E
VT316	35-36E	0.22 *	0.33	Window	Window ledge between Col. 35E & 36E
VT317	37-38E	0.29 *	0.44	Window	Window ledge between Col. 37E & 38E
VT318	39-40E	0.19 *	0.29	Window	Window ledge between Col. 39E & 40E
VT319	41-42E	0.13 *	0.20	Window	Window ledge between Col. 41E & 42E
VT320	31W-32W	0.29 *	0.58	Window	Window ledge between Bay 31W & 32W
VT321	31W-32W	0.12 *	0.24	Wall	Top of wall between Bay 31W & 32W
VT322	31W-32W	0.22 *	0.44	Bridging	Top of bridging between Bay 31W & 32W
VT323	31W	0.40 *	0.80	Truss	Top of truss east of Col. 31W
VT324	32W-33W	0.29 *	0.58	Window	Window ledge between Bay 32W & 33W
VT325	32W-33W	0.18 *	0.36	Wall	Top of wall between Bay 32W & 33W
VT326	32W-33W	0.19 *	0.38	Bridging	Top of bridging between Bay 32W & 33W
VT327	32W	0.20 *	0.40	Truss	Top of lower horizontal member of truss about 1/2 way to peak east of Col. 32W
VT328	33W-34W	0.20 *	0.40	Window	Window ledge between Bay 33W & 34W
VT329	33W-34W	0.26 *	0.52	Stringer	Stringer (visibly dirty) between Bay 33W & 34W
VT330	43E	0.16 *	0.16	Window	Middle low window ledge between Col. 43E & N wall
VT331	31E	0.31 *	0.31	Floor	14 ft W & 10 ft S of Col. 31E
VT332	30E	0.31 *	0.31	Floor	14 ft W & 10 ft S of Col. 30E
VT333	29E	0.21 *	0.21	Floor	14 ft W & 10 ft S of Col. 29E
VT334	28E	0.45 *	0.45	Floor	14 ft W & 10 ft S of Col. 28E
VT335	27E	0.45 *	0.45	Floor	14 ft W & 10 ft S of Col. 27E
VT336	26E	0.31 *	0.31	Floor	14 ft W & 10 ft S of Col. 26E
VT337	25E	0.95 *	0.95	Floor	14 ft W & 10 ft S of Col. 25E
VT338	24E	0.37 *	0.37	Floor	14 ft W & 10 ft S of Col. 24E
VT339	23E	0.44 *	0.44	Floor	14 ft W & 10 ft S of Col. 23E
VT340	22E	0.23 *	0.23	Floor	14 ft W & 10 ft S of Col. 22E
VT341	22W	0.30 *	0.30	Floor	34 ft E & 10 ft S of Col. 22W
VT342	22W	0.20 *	0.20	Floor	14 ft E & 10 ft S of Col. 22W
VT343	23W	0.25 *	0.25	Floor	14 ft E & 9 ft S of Col. 23W
VT344	23W	0.23 *	0.23	Floor	34 ft E & 10 ft S of Col. 23W
VT345	24W	0.40 *	0.40	Floor	14 ft E & 10 ft S of Col. 24W

Table 4. (continued)

Sample ID ^a	Bay/room/structure/area ^b	Be ^c ($\mu\text{g/g}$) (μg)*	Be/area ($\mu\text{g/ft}^2$) ^d	Location in bay	Location notes ^e
VT346	25W	1.2*	1.2	Floor	14 ft E & 9 ft S of Col. 25W
VT347	26W	0.14 *	0.14	Floor	14 ft E & 10 ft S of Col. 26W
VT348	27W	0.11 *	0.11	Floor	14 ft E & 10 ft S of Col. 27W
VT349	28W	0.22 *	0.22	Floor	14 ft E & 10 ft S of Col. 28W
VT350	29W	0.22 *	0.22	Floor	14 ft E & 10 ft S of Col. 29W
VT351	30W	0.13 *	0.13	Floor	14 ft E & 10 ft S of Col. 30W
VT352	31W	0.17 *	0.17	Floor	14 ft E & 10 ft S of Col. 31W
VT353	29-30E	0.19 *	0.29	Window	Window ledge between Col. 29E & 30E
VT354	27-28E	0.28 *	0.42	Window	Window ledge between Col. 27E & 28E
VT355	25-26E	0.14 *	0.21	Window	Window ledge between Col. 25E & 26E
VT356	25-24E	0.69 *	0.69	Window	Window ledge between Col. 25E & 24E
VT357	MS-1	0.30 *	0.30	Floor	9 ft W & 9 ft S of Col. 25W in Rm. MS-1
VT358	MS-1	0.66 *	0.66	Floor	7 ft S & 8 ft E of Col. 24W in Rm. MS-1
VT359	28-29W	0.19 *	0.19	Floor	Floor in men's room located between Col. 28W & 29W
VT360	33W-34W	0.40 *	0.80	Bridging	Bridging between Bay 33W & 34W
VT361	33W	0.18 *	0.36	Truss	Top of truss east of Col. 33W
VT362	34W	0.40 *	0.80	Truss	Top of lower truss near Col. 34W
VT363	34W-35W	0.46 *	0.92	Other	Top of cross brace at truss of 34W & 35W
VT364	35W	0.58 *	1.2	Truss	Top of truss E from Col. 35W
VT365	35W-36W	0.50 *	1.0	Bridging	Top of bridging between Bay 35W & 36W
VT366	36W	0.21 *	0.42	Truss	Top of truss east from Col. 36W
VT367	36W-37W	0.21 *	0.42	Bridging	Top of bridging between Bay 36W & 37W
VT368	36W-37W	0.25 *	0.50	Stringer	Upper side of stringer between 36W & 37W
VT370	37W-38W	0.25 *	0.50	Stringer	Dirty stringer between Col. 37W & 38W
VT371	MS-6	0.66 *	0.66	Floor	5 ft N & 9 ft E of Col. 25E in Rm. MS-6
VT372	MS-6	0.44 *	0.44	Window	Window ledge (E.side) in Rm. MS-6
VT373	MS-6	0.37 *	0.37	Floor	Room north of vault and near Col. 25E
VT374	Vault	0.58 *	0.58	Floor	9 ft S & 7 ft E of Col. 24 E inside the vault
VT377	31-32E	0.12 *	0.24	Wall	Top of plate between Col. 31E & 32
VT378	32-33E	0.27 *	0.27	Window	Ledge of window between Col. 32E & 33E
VT379	32-33E	0.17 *	0.34	Wall	Top of plate between Col. 32E & 33E

Table 4. (continued)

Sample ID ^a	Bay/room/ structure/ area ^b	Bec ($\mu\text{g/g}$) (μg)*	Be/area ($\mu\text{g}/\text{ft}^2$) ^d	Location in bay	Location notes ^e
VT380	33-34E	0.18 *	0.46	Wall	Top of plate between Col. 33E & 34E
VT381	38W	0.41 *	0.82	Truss	Top of truss east of Col. line 38W
VT382	38-39W	0.19 *	0.38	Bridging	Top of bridging between Col. 38W & 39W
VT383	40-41W	0.19 *	0.38	Bridging	Top of bridging east & between 40W & 41W
VT384	41W	0.13 *	0.26	Truss	Top of truss east of Col. line 41W
VT385	41W-42W	0.16 *	0.32	Bridging	Top of bridging between 41W & 42W
VT386	41W-42W	0.16 *	0.32	Wall	Top of wall between Col. 41W & 42W
VT387	41W-42W	0.13 *	0.26	Window	Window ledge between Col. 41W & 42W
VT388	42W	0.15 *	0.30	Truss	Top of truss east of Col. 42W
VT389	42W-43W	0.10 *	0.20	Bridging	Top of bridging east & between 42W & 43W
VT390	42W-43W	0.22 *	0.44	Wall	Top of wall between Col. 42W & 43W
VT391	42W-43W	0.19 *	0.38	Window	Window ledge between Col. 42W & 43W
VT392	43W	0.10 *	0.20	Window	Window ledge between Col. 43W & NW bldg.
VT393	44E-44W	0.18 *	0.36	Wall	Top of wall on far north end of bldg.
VT394	43-44E	0.22 *	0.44	Truss	Top of lower west side truss brace between Truss 43 & north end of building
VT395	29W	0.10 *	0.20	Other	Upper horizontal surface of steam line at 12 ft S & 13 ft W of Col. 29W
VT396	29W	0.68 *	1.4	Other	Surface (visibly dirty) of sprinkler line at 17 ft N & 6 ft W of Col. 29W
VT397	29W	0.12 *	0.24	Other	Visibly dirty wooden cross brace near Col. 29W
VT398	29W	0.12 *	0.24	Bridging	Visibly dirty bridging located near Col. 29W
VT399	34-35W	0.21 *	0.42	Window	Window ledge between Col. 34W & 35W
VT400	34-35W	0.12 *	0.24	Stringer	Vertical board between Col. 34W & 35W
VT401	34-35E	0.22 *	0.44	Wall	Top of plate between Col. 34E & 35E
VT402	34-35E	0.25 *	0.25	Window ledge	Ledge of window between Col. 34E & 35E
VT403	35-36E	0.17 *	0.34	Wall	Top of plate between Col. 35E & 36E
VT404	36-37E	0.20 *	0.40	Wall	Top of plate between Col. 36E & 37E
VT405	36-37E	0.37 *	0.37	Window	Window ledge between Col. 36E & 37E
VT406	37-38E	0.16 *	0.32	Wall	Top of plate between Col. 37E & 38E
VT407	38-39E	0.15 *	0.30	Wall	Top of plate between Col. 38E & 39E
VT408	38-39E	0.43 *	0.43	Window	Upper window ledge between Col. 38E & 39E

Table 4. (continued)

Sample ID ^a	Bay/room/structure/area ^b	Be ^c ($\mu\text{g/g}$) (μg)*	Be/area ($\mu\text{g/ft}^2$) ^d	Location in bay	Location notes ^e
VT409	39-40E	0.28 *	0.56	Wall	Top of plate between Col. 39E & 40E
VT410	40-41E	0.23 *	0.46	Wall	Top of plate between Col. 40E & 41E
VT411	40-41E	0.44 *	0.44	Window	Upper window ledge between Col. 40E & 41E
VT412	41-42E	0.16 *	0.32	Wall	Top of plate between Col. 41E & 42E
VT413	42-43E	0.13 *	0.26	Wall	Top of plate between Col. 42E & 43E
VT414	42-43E	0.26 *	0.26	Window	Upper window between Col. 42E & 43E
VT415	43E	0.17 *	0.17	Wall	Top of plate between Col. 43E & end of building
VT416	33-34W	0.21 *	0.42	Stringer	Vertical board between Col. 33W & 34W
VT417	35W	0.20 *	0.20	Other	Top of heater near Col. 35W
VT418	35-36W	0.19 *	0.38	Window	Window ledge between Col. 35W & 36W
VT419	35-36W	0.13 *	0.26	Wall	Top of block wall between Col. 35W & 36W
VT420	36-37W	0.22 *	0.44	Window	Window ledge between Col. 36W & 37W
VT421	36-37W	0.13 *	0.26	Stringer	Vertical board between Col. 36W & 37W
VT422	37-38W	0.18 *	0.36	Window	Window ledge between Col. 37W & 38W
VT423	43W	0.10 *	0.20	Truss	Top of truss near Col. 43W
VT424	43W	0.10 *	0.20	Wall	Truss plate between Col. 43W & NW corner
VT425	43W	0.12 *	0.24	Bridging	Bridging between Col. 43W & NW corner
VT426	40-41W	0.17 *	0.34	Window	Window ledge between Col. 40W & 41W
VT427	40-41W	0.11 *	0.22	Wall	Top of block wall between Col. 40W & 41W
VT428	37-38W	0.10 *	0.20	Wall	Top of block wall between Col. 37W & 38W
VT429	37W	0.10 *	0.20	Truss	Top of truss from Col. 37W
VT430	37-38W	0.10 *	0.20	Stringer	Stringer located between Col. 37W & 38W
VT431	37-38W	0.15 *	0.30	Bridging	Bridging between Col. 37W & 38W
VT432	38-39W	0.19 *	0.38	Window	Window ledge between Col. 38W & 39W
VT433	38-39W	0.17 *	0.34	Wall	Top of block wall between Col. 38W & 39W
VT434	31-32E	0.23 *	0.46	Bridging	Bridging between Col. 31E & 32E
VT435	31E	0.22 *	0.44	Truss	Top of lower truss brace near Col. 31E
VT436	32-33E	0.19 *	0.38	Bridging	Bridging between Col. 32E & 33E
VT437	32E	0.19 *	0.38	Truss	Top of truss about 1/2 way to the peak from Col. 32E
VT438	33E	0.15 *	0.30	Truss	Top of truss about 1/2 way to the peak from Col. 33E
VT439	33-34E	0.11 *	0.22	Bridging	Bridging between Col. 33E & 34E

Table 4. (continued)

Sample ID ^a	Bay/room/ structure/ area ^b	Be ^c ($\mu\text{g/g}$) (μg)*	Be/area ($\mu\text{g}/\text{ft}^2$) ^d	Location in bay	Location notes ^e
VT440	34-35E	0.14 *	0.28	Bridging	Bridging between Col. 34E & 35E
VT441	34E	0.12 *	0.24	Truss	Top of truss near Col. 34E
VT442	35E	0.10 *	0.20	Truss	Top of truss near Col. 35E
VT443	35-36E	0.29 *	0.58	Bridging	Bridging (dusty) between Col. 35E & 36E
VT444	36E	0.10 *	0.20	Truss	Top of truss near Col. 36E
VT445	36-37E	0.10 *	0.20	Bridging	Bridging between Col. 36E & 37E
VT446	37E	0.10 *	0.20	Truss	Top of truss near Col. 37E
VT447	37-38E	0.15 *	0.30	Bridging	Bridging between Col. 37E & 38E
VT448	38E	0.10 *	0.20	Truss	Top of truss brace near Col. 38E
VT449	38-39E	0.10 *	0.20	Stringer	Stringer between Col. 38E & 39E
VT450	38-39E	0.10 *	0.20	Bridging	Bridging between Col. 38E & 39E
VT451	30-31E	0.26 *	0.52	Wall	Top of plate between Col. 30E & 31E
VT452	30-31E	0.19 *	0.19	Window ledge	Window (upper middle) ledge (sm. amt. of debris in corner) between Col. 30E & 31E
VT453	29-30E	0.38 *	0.76	Wall	Top of plate between Col. 29E & 30E
VT454	28-29E	0.34 *	0.68	Wall	Top of plate between Col. 28E & 29E
VT456	27-28E	0.81 *	1.6	Wall	Top of plate between Col. 27E & 28E
VT457	26-27E	0.18 *	0.36	Wall	Top of plate between Col. 26E & 27E
VT460	25-26E	0.74 *	1.5	Wall	Top of plate between Col. 25E & 26E
VT461	21-22E	0.44 *	0.44	Wall	Top of plate (visibly dirty) between Col. 21E & 22E
VT462	21-22E	0.20 *	0.20	Other	Top of header between Col. 21E & 22E
VT463	22-23E	0.31 *	0.31	Other	Top of header between Col. 22E & 23E
VT464	22-23E	0.80 *	0.80	Wall	Top of plate (visibly dirty) between Col. 22E & 23E
VT465	23-24E	0.81 *	1.6	Wall	Top of plate between Col. 23E & 24E
VT467	MS-1	0.19 *	0.19	Wall	Top of wall in MS-1 (furnace room) about 11 ft 9 in. off the floor on southside
VT468	23-24W	0.57 *	0.57	Other	Top of the lower header between Col. 23W & 24W
VT469	23-24W	0.18 *	0.36	Wall	Top of plate (visibly very dirty) between Col. 23W & 24W
VT470	23W	0.22 *	0.22	Truss	Top of beam at Col. 23W
VT471	28-29W	0.37 *	0.37	Window	Upper center window ledge between Col. 28W & 29W
VT472	28-29W	0.20 *	0.40	Wall	Top of plate between Col. 28W & 29W

Table 4. (continued)

Sample ID ^a	Bay/room/structure/area ^b	Be ^c ($\mu\text{g/g}$) (μg)*	Be/area ($\mu\text{g/ft}^2$) ^d	Location in bay	Location notes ^e
VT473	27-28W	0.18 *	0.18	Window	Upper center window ledge between Col. 27W & 28W
VT474	27-28W	0.20 *	0.40	Wall	Top of plate between Col. 27W & 28W
VT475	26-27W	0.36 *	0.36	Window	Upper center window ledge between Col. 26W & 27W
VT476	26-27W	0.18 *	0.36	Wall	Top of plate between Col. 26W & 27W
VT477	29-30W	0.46 *	0.46	Window	Upper south window ledge between Col. 29W & 30W
VT478	29-30W	0.18 *	0.36	Wall	Top of plate between Col. 29W & 30W
VT479	30-31W	0.32 *	0.32	Window	Upper middle window ledge between Col. 30W & 31W
VT480	39-40W	0.14 *	0.28	Window	Center concrete window ledge between Col. 39W & 40W
VT481	39-40W	0.10 *	0.20	Wall	Top of concrete block wall between Col. 39W & 40W
VT482	40W	0.10 *	0.20	Truss	Top of truss about 1/2 way to peak from Col. 40W
VT483	40E	0.10 *	0.20	Truss	Top of truss about 1/2 way to peak from Col. 40E
VT484	40-41E	0.10 *	0.20	Bridging	Bridging about 1/2 way to peak from wall between Col 40E & 41E
VT485	41-42E	0.45 *	0.90	Bridging	Bridging about 1/2 way to peak from wall between Col. 41E & 42E
VT486	41E	0.23 *	0.46	Truss	Top of lower horizontal truss member about 1/2 way to peak from Col. 41E
VT487	42E	0.14 *	0.28	Truss	Top of truss about 1/2 way to peak from Col. 42E
VT488	42-43E	0.17 *	0.34	Bridging	Bridging about 1/2 way to the peak from the wall between Col. 42E & 43E
VT489	43E	0.13 *	0.26	Truss	Top of truss about 1/2 way to the peak from Col. 43E
VT490	42-43E	0.19 *	0.38	Stringer	Upper surface of stringer about 1/2 way to peak from wall between Col. 42E & 43E
VT491	42-43E	0.20 *	0.40	Bridging	Bridging between Col. 42E & 43E
VT492	NE bldg.	0.25 *	0.50	Wall	Top of wood plate in NE corner of bldg.
VT493	43E	0.56 *	1.1	Bridging	Bridging between Col. 43E & NE corner of building
VT494	43E	0.21 *	0.42	Truss	Top of truss about 1 ft east of roof peak on Col. line 43E-W
VT495	39E	0.20 *	0.40	Truss	Top of truss about 1/2 way to peak from Col. 39E
VT496	39-40E	0.24 *	0.48	Bridging	Bridging about 1/2 way to peak from wall between Col. 39E & 40E
VT497	39-40W	0.17 *	0.34	Bridging	Bridging between Col. 39W & 40W

Table 4. (continued)

Sample ID ^a	Bay/room/structure/area ^b	Be ^c ($\mu\text{g/g}$) (μg)*	Be/area ($\mu\text{g}/\text{ft}^2$) ^d	Location in bay	Location notes ^e
VT498	39W	0.17 *	0.34	Truss	Top of truss near Col. 39W
VT499	39-40W	0.17 *	0.34	Stringer	Stringer between Col. 39W & 40W
VT500	30-31E	0.15 *	0.30	Bridging	Bridging about 1/2 way to peak from wall between Col. 30E & 31E
VT501	30-31W	0.10 *	0.20	Wall	Top of plate between Col. 30W & 31W
VT502	25-26W	0.98 *	0.98	Window	Upper north window ledge between Col. 25W & 26W
VT503	25-26W	0.10 *	0.20	Wall	Top of plate between Col. 25W & 26W
VT504	26E	0.31 *	0.62	Truss	Top of lower truss Col. 26 middle (little bit east)
VT505	27E	0.88 *	1.8	Truss	Top of lower truss between (east of center so nearer to E Col.) Col. 27E & 27W
VT506	27E	0.20 *	0.40	Truss	Top of upper truss between (east of center so nearer to Col. E) Col. 27 E & 27W
VT507	27-28E	0.33 *	0.66	Bridging	Bridging between (east of center so nearer E Cols.) Col. 27 & 28
VT509	27-28E	0.20 *	0.40	Stringer	Stringer between 27E & 28E east of center at Col. 28
VT512	24-25E	1.3*	1.3	Window	Upper south window ledge between Col. 24E & 25E
VT513	22-23W	0.10 *	0.10	Wall	Top of "I" beam above garage door between 22W & 23W. Equivalent to top of plate.
VT514	21-22W	0.10 *	0.10	Other	Top of lower header (window ledge too narrow) between 21W & 22W
VT515	21W-22W	0.10 *	0.20	Wall	Top of plate between 21W & 22W
VT516	30E	0.17 *	0.34	Truss	Top of truss about 1/2 way to the peak from Col. 30E
VT517	29-30E	0.15 *	0.30	Bridging	Bridging between Col. 29E & 30E
VT518	24-25W	0.28 *	0.56	Wall	Top of block wall between Col. 24W & 25W
VT520	31W	0.17 *	0.34	Truss	Top of truss near Col. 31W
VT521	30-31W	0.16 *	0.32	Bridging	Bridging between Col. 30W & 31W
VT522	29-30W	0.22 *	0.44	Bridging	Bridging about 1/2 way to peak from wall between Col. 29W & 30W
VT523	27-28W	0.10 *	0.20	Bridging	Bridging about 2/3 way to peak from wall between Col. 27W & 28W
VT524	26-27W	0.16 *	0.32	Bridging	Bridging about 3/4 way to peak from wall between Col. 26W & 27W
VT525	26-27E	0.18 *	0.36	Bridging	Bridging about 1/2 way to peak from wall between Col. 26E & 27E

Table 4. (continued)

Sample ID ^a	Bay/room/structure/area ^b	Be ^c ($\mu\text{g/g}$) (μg) [*]	Be/area ($\mu\text{g}/\text{ft}^2$) ^d	Location in bay	Location notes ^e
VT526	39W	0.22 *	0.44	Truss	Top of truss about 2 ft away from peak at Col. 39W after additional cleaning
VT527	22-23E	0.15 *	0.30	Bridging	Bridging, about 2/3 way to peak from wall between Col. 22E & 23E
VT528	22E	0.13 *	0.26	Truss	Top of truss about 1/2 way to peak from Col. 22E
VT529	22-23E	0.10 *	0.20	Stringer	Stringer about 1/2 way to peak from wall between Col. 22E & 23E
VT530	22-23E	0.15 *	0.30	Bridging	Bridging about 1/4 way to peak from wall between Col. 22E & 23E
VT531	23E	0.30 *	0.60	Truss	Top of truss about 2/3 way to peak from Col. 23E
VT532	30W	0.10 *	0.20	Truss	Top of truss about 1/2 way to peak from Col. 30W
VT533	29W	0.11 *	0.22	Truss	Top of truss about 3/4 way to peak from Col. 29W
VT534	29E	0.16 *	0.32	Truss	Top of truss about 1/2 way to peak from Col. 29E
VT535	28-29E	0.23 *	0.46	Stringer	Stringer (upper surface) about 5 ft down from peak between Col. 28E & 29E peak between Col. 28E & 29E
VT536	28-29E	0.18 *	0.36	Bridging	Bridging about 2/3 way to peak from wall between Col. 28E & 29E
VT537	28-29W	0.17 *	0.34	Bridging	Bridging about 1/2 way to peak from wall between Col. 28W & 29W
VT538	28W	0.29 *	0.58	Truss	Top of truss about 1/2 way to peak from Col. 28W & about 2 ft below old VM190
VT539	27E	0.10 *	0.20	Truss	Top of truss (after extensive recleaning) about 1/2 way to peak from Col. 27E
VT540	27W	0.50 *	1.0	Truss	Top of lower horizontal truss brace about 2/3 way to peak from Col. 27W
VT541	26W	0.49 *	0.98	Truss	Top of lower horizontal truss member about 1/2 way to peak from Col. 26W
VT543	25-26E	0.32 *	0.64	Bridging	Bridging about 1/2 way to peak from wall between Col. 25E & 26E.
VT544	25E	0.21 *	0.42	Truss	Top of truss about 2/3 way to peak from Col. 25E
VT545	24-25E	0.35 *	0.70	Bridging	Bridging about 2/3 way to peak from wall between Col. 24E & 25E
VT546	25W	0.29 *	0.58	Truss	Top of truss about 5 ft from peak on Col. line 25W
VT547	24-25W	0.44 *	0.88	Bridging	Bridging about 2 ft from peak between Col. 24W & 25W

Table 4. (continued)

Sample ID ^a	Bay/room/ structure/ area ^b	Be ^c ($\mu\text{g/g}$) (μg)*	Be/area ($\mu\text{g/ft}^2$) ^d	Location in bay	Location notes ^e
VT548	24E	0.46 *	0.92	Wall	Top of plate above truss about 4 ft from metal shop roof peak on Col. line 24E
VT549	24W	0.63 *	1.3	Truss	Top of truss at roof line step-down between metal shop & carpenter end
VT551	23-24E	0.87 *	1.7	Bridging	Bridging about 1/2 way to peak between Col. 23E & 24E
VT552	23W	0.21 *	0.42	Truss	Top of truss about 1/2 way to peak from Col. 23W (about 2 ft below old VM395)
VT553	22-23W	0.14 *	0.28	Bridging	Bridging about 1/2 way to peak between Col. 22W & 23W
VT554	22W	0.11 *	0.22	Truss	Top of truss about 2/3 way to peak from Col. 22W
VT555	21-22W	0.15 *	0.30	Bridging	Bridging about 1/2 way to peak between Col. 21W & 22W (metal-shop side of wall)
VT556	31W	0.23 *	0.46	Floor	Crane rail track on floor near Col. 31W. Further cleaning after old VM443
VT557	42W	0.20 *	0.40	Floor	Col. 42W after add.exten.cleaning Col. 42W after add.exten.cleaning
VT558	38E	0.15 *	0.30	Floor	Crane rail track on floor 3 ft directly W of Col. 38E after exten.add.cleaning
VT559	38W	0.14 *	0.56	Floor	Depression in floor 20 ft & 7 in. E and 5.33 ft N of Col. 38W post add.clean.
VT560	27E	0.34 *	0.68	Floor	Crane rail track on floor 3 ft directly W of Col. 27E post exten.add. cleaning
VT561	22W	0.17 *	0.68	Other	Upper horizontal surface of original electrical fuse box 33 ft S of Col. 22W
VT562	20W	0.11 *	0.22	Floor	Floor (original concrete) located 3 ft directly S of and N of Col. 17W Col. 20W
VT563	17W	0.14 *	0.28	Floor	Floor (original concrete) located directly against and N of Col. 17W
VT564	14W	0.12 *	0.12	Floor	Floor (original concrete) located directly against and N of Col. 14W
VT565	15W	0.12 *	0.48	Other	Upper horizontal surface of original (?) electrical fuse box 1 ft N of Col. 15W
VT566	16W	0.10 *	0.10	Floor	Floor (original concrete) located directly against and N of Col. 16W
VT567	20-21E	1.0*	2.0	Wall	Top of block wall in middle of the bay. VT801 is recheck.

Table 4. (continued)

Sample ID ^a	Bay/room/structure/area ^b	Be ^c ($\mu\text{g/g}$) (μg) [*]	Be/area ($\mu\text{g/ft}^2$) ^d	Location in bay	Location notes ^e
VT568	21E	0.11 *	0.22	Truss	Top of north Truss 21, 1/3 of the way up towards peak
VT569	20-21E	0.07 *	0.14	Bridging	Bridging 2/3 of the way up towards peak in middle of bay
VT570	19-20E	0.14 *	0.28	Wall	Top of block wall; middle of bay
VT571	19-20E	0.07 *	0.14	Bridging	Bridging 1/3 way up towards peak
VT572	19-20E	0.09 *	0.18	Truss	Top of Truss 20, 2/3 way up towards peak
VT573	18-19E	0.08 *	0.16	Wall	Top of block wall, middle of bay
VT574	18-19E	0.08 *	0.16	Bridging	Bridging 1/3 of the way up to peak between Stringers 8 & 9
VT575	18-19E	0.08 *	0.16	Truss	Top of Truss 19, 2/3 way up to peak between Stringers 14 & 15
VT576	17-18E	0.08 *	0.16	Wall	Top of block wall, middle of bay
VT577	17-18E	0.08 *	0.16	Bridging	Bridging 1/3 way up towards peak betw. Stringers 8 & 9
VT578	18E	0.09 *	0.18	Truss	Top of Truss 18, 2/3 way up towards peak
VT579	16-17E	0.07 *	0.14	Wall	Top of block wall, middle of bay
VT580	16-17E	0.14 *	0.28	Bridging	Bridging (S) 1/3 way up towards peak
VT581	17E	0.08 *	0.16	Truss	Top of Truss 17, 2/3 of the way up towards peak
VT582	8-9W	0.08 *	0.16	Wall	Top of block wall, south wall of bldg. (WS), 1/3 of the way over towards peak
VT583	8-9W	0.08 *	0.08	Wall	Top of truss support beam (runs N to S), middle of bay.
VT584	8-9W	0.08 *	0.16	Bridging	Bridging (N), 1/3 of the way up towards peak
VT585	9W	0.09 *	0.18	Truss	Top of Truss 9, 2/3 way up towards peak
VT586	8W	0.15 *	0.30	Truss	Top of Truss 8, 1/3 way of the way up towards peak
VT587	9-10W	0.12 *	0.12	Truss	Top of the truss support beam (N to S), mid. of the bay
VT588	9-10W	0.09 *	0.18	Bridging	Bridging (N) about 3 ft away from the roof peak
VT589	10W	0.09 *	0.18	Truss	Top of Truss 10, 1/2 of the way up towards peak
VT590	10-11W	0.08 *	0.08	Truss	Top of truss support beam (N to S), middle of bay
VT591	10-11W	0.09 *	0.18	Bridging	Bridging (S), 1/2 of the way up towards peak
VT592	11W	0.09 *	0.18	Truss	Top of Truss 11, 2/3 of the way up towards peak
VT593	12-13W	0.08 *	0.16	Bridging	Bridging (S), 1/2 way up towards peak

Table 4. (continued)

Sample ID ^a	Bay/room/ structure/ area ^b	Be ^c ($\mu\text{g/g}$) [*]	Be/area ($\mu\text{g/ft}^2$) ^d	Location in bay	Location notes ^e
VT594	12W	0.09 *	0.18	Truss	Top of Truss 12, 1/2 the way up towards the peak
VT595	12-13W	0.08 *	0.16	Wall	Top of block wall, middle of bay
VT596	11-12W	0.08 *	0.16	Truss	Top of the truss support beam, middle of bay. This is same as top of block wall.
VT597	8E	0.08 *	0.16	Wall	Top of block wall (wood plate), W of Col. 8E (SE corner)
VT598	8E	0.09 *	0.18	Truss	Top of truss, about 3/4 way to the peak from Col. 8E
VT599	8E-9E	0.09 *	0.18	Bridging	Bridging, ~ 3/4 way to the peak between Col.8E & 9E
VT600	8E-9E	0.11 *	0.22	Wall	Top of block wall (wood plate), between 8E & 9E
VT601	9E-10E	0.09 *	0.18	Wall	Top of block wall (wood plate), between 9E & 10E
VT602	9E-10E	0.10 *	0.20	Bridging	Bridging, about 1/3 way to the peak between 9E & 10E
VT603	9E	0.08 *	0.16	Truss	Top of truss, about 3/4 way to peak from Col. 9E
VT604	10E	0.08 *	0.16	Truss	Top of truss, about 3/4 way to peak from Col. 10E
VT605	10E-11E	0.08 *	0.16	Bridging	Bridging, about 2/3 way to peak between 10E & 11E
VT606	10E-11E	0.08 *	0.16	Wall	Top of block wall (wood plate), between 10E & 11E
VT607	11E-12E	0.08 *	0.16	Bridging	Bridging, about 1/3 way to peak between 11E & 12E
VT608	11E	0.08 *	0.16	Truss	Top of truss, about 1/3 way to peak from Col. 11E
VT609	11E-12E	0.07 *	0.14	Wall	Top of block wall between 11E & 12E
VT610	12E	0.09 *	0.18	Truss	Top of truss, about 1/2 way to peak from Col.12E
VT611	12E-13E	0.08 *	0.16	Wall	Top of block wall (wood plate), between 12E & 13E
VT612	12E-13E	0.08 *	0.16	Bridging	Bridging, about 1/2 way to peak between 12E & 13E
VT613	13E	0.08 *	0.16	Truss	Top of truss, about 3/4 way to peak from Col. 13E
VT614	13E-14E	0.07 *	0.14	Wall	Top of block wall (wood plate), between 13E & 14E
VT615	13E-14E	0.08 *	0.16	Bridging	Bridging, about 1/2 way to peak between 13E & 14E
VT616	14E	0.08 *	0.16	Truss	Top of truss, about 2/3 way to peak from 14E
VT617	13E-14E	0.08 *	0.08	Stringer	Stringer (upper side), about 2/3 way to peak between 13E & 14E
VT618	15E	0.08 *	0.16	Truss	Top of truss, about 3/4 way to peak from 15E
VT619	14E-15E	0.14 *	0.28	Bridging	Bridging, about 3/4 way to peak between 14E & 15E
VT620	14E-15E	0.14 *	0.28	Wall	Top of block wall (block) between 14E & 15E
VT621	15E-16E	0.07 *	0.14	Wall	Top of block wall (wood plate), between 15E & 16E
VT622	15E-16E	0.08 *	0.16	Bridging	Bridging, about 1/3 way to peak between 15E & 16E

Table 4. (continued)

Sample ID ^a	Bay/room/ structure/ area ^b	Be ^c ($\mu\text{g/g}$) (μg)*	Be/area ($\mu\text{g/ft}^2$) ^d	Location in bay	Location notes ^e
VT623	16E	0.07 *	0.14	Truss	Top of truss, about 1/2 way to peak from 16E
VT624	17W-18W	0.08 *	0.16	Bridging	Bridging, about 3/4 way to peak between 17W & 18W
VT625	18W	0.17 *	0.34	Truss	Top of truss, about 1/2 way to peak from 18W
VT626	17W	0.08 *	0.16	Truss	Top of truss, about 3/4 way to peak from 17W
VT627	20W-21W	0.09 *	0.18	Wall	Top of block wall (wood plate), between 20W & 21W
VT628	19W-20W	0.07 *	0.14	Wall	Top of block wall (wood plate), between 19W & 20W
VT629	18W-19W	0.08 *	0.16	Wall	Top of block wall (wood plate), between 18W & 19W
VT630	17W-18W	0.08 *	0.16	Wall	Top of block wall (block), between 17W & 18W
VT631	21W	0.08 *	0.16	Truss	Top of truss, about 1/3 way to peak Col. 21W
VT632	20W-21W	0.07 *	0.14	Bridging	Bridging, about 1/3 way to peak between 20W & 21W
VT633	20W	0.13 *	0.26	Truss	Top of truss, about 3/4 way to peak from Col. 20W
VT634	19W-20W	0.08 *	0.16	Bridging	Bridging, about 1/3 way to peak between 19W & 20W
VT635	19W	0.13 *	0.26	Truss	Top of truss, about 1/3 way to peak from Col. 19W
VT636	18W-19W	0.07 *	0.14	Bridging	Bridging, about 1/3 way to peak between 18W & 19W
VT637	16W-17W	0.08 *	0.16	Wall	Top of block wall (block), between 16W & 17W
VT638	16W-17W	0.16 *	0.32	Bridging	Bridging, about 2/3 way to peak between 16W & 17W
VT639	16W-17W	0.08 *	0.08	Stringer	Stringer (upper vertical surface), about 2/3 way to peak between 16W & 17W
VT640	16W	0.07 *	0.14	Truss	Top of truss, about 2/3 way to peak from 16W
VT641	15W-16W	0.08 *	0.16	Bridging	Bridging, about 3/4 way to peak between 15W & 16W
VT642	15W	0.07 *	0.14	Truss	Top of truss, about 3/4 way to peak from 15W
VT643	15W-16W	<0.05 *	<0.10	Wall	Top of block wall (wood plate), between 15W & 16W
VT644	14W-15W	<0.05 *	<0.10	Wall	Top of block wall (block & wet from localized roof leak) between 14W & 15W
VT645	14W-15W	<0.05 *	<0.10	Bridging	Bridging, about 1/2 way to peak between 14W & 15W
VT646	14W	<0.05 *	<0.10	Truss	Top of truss, about 1/2 way to peak from 14W
VT647	13W-14W	<0.05 *	<0.10	Bridging	Bridging, about 3/4 way to peak between 13W & 14W
VT648	13W	<0.05 *	<0.10	Truss	Top of truss, about 7/8 (6 ft down from peak) way to peak from Col. 13W
VT649	13W-14W	<0.05 *	<0.10	Wall	Top of block wall (block), between 13W & 14W
VT650	6S-7S	<0.05 *	<0.10	Wall	Top of block wall (block), between 6S & 7S
VT651	6S-7S	<0.05 *	<0.10	Bridging	Bridging, about 1/2 way to peak between 6S & 7S

Table 4. (continued)

Sample ID ^a	Bay/room/structure/area ^b	Be ^c ($\mu\text{g/g}$) (μg)*	Be/area ($\mu\text{g}/\text{ft}^2$) ^d	Location in bay	Location notes ^e
VT652	6S	<0.05 *	<0.10	Truss	Top of truss, about 7/8 way to peak (10 ft down) from Col. 6S
VT653	7S	<0.05 *	<0.10	Truss	Top of truss, about 3/4 way to peak from Col. 7S (to Col. 7N) in triangle
VT654	7S	<0.05 *	<0.10	Truss	Top of truss, about 1/2 way to peak from Col. 7S (to Col. 12W) in triangle
VT655	7S	<0.05 *	<0.05	Stringer	Stringer (upper vertical surface), about 1/2 way to peak (in triangle) from Col. 7S
VT656	6N-7N	<0.05 *	<0.10	Bridging	Bridging, about 3/4 way to peak between Col. 6N & 7N
VT657	6N	<0.05 *	<0.10	Truss	Top of truss, about 3/4 way to peak from Col. 6N
VT658	6N-7N	<0.05 *	<0.10	Wall	Top of block wall (wood plate), between 6N & 7N
VT659	6N-7N	<0.05 *	<0.10	Window	Window ledge (wood), between 6N & 7N
VT660	7N-12W	<0.05 *	<0.10	Window	Window ledge (wood), between 7N & 12W (in triangle)
VT661	7N-12W	0.07 *	0.14	Wall	Top of block wall (wood plate), between 7N & 12W (in triangle)
VT662	7N-12W	<0.05 *	<0.10	Bridging	Bridging, about 1/3 way to peak between 7N & 12W (in triangle)
VT663	7N	<0.05 *	<0.10	Truss	Top of truss, about 1/3 way to peak from Col. 7N
VT664	12W	<0.05 *	<0.10	Truss	Top of truss, about 3/4 way to peak going toward 7S from Col. 12W (in triangle)
VT665	12W-13W	<0.05 *	<0.10	Window	Window ledge (wood), between 12W & 13W
VT666	13W-14W	<0.05 *	<0.10	Window	Window ledge (wood), between 13W & 14W
VT667	14W-15W	<0.05 *	<0.10	Window	Window ledge (wood) between 14 & 15W
VT668	15W-16W	<0.05 *	<0.05	Window	Window ledge (wood) between 15W & 16W
VT669	16W-17W	<0.05 *	<0.10	Window	Window ledge (wood) between 16W & 17W
VT670	17W-18W	<0.05 *	<0.10	Window	Window ledge (wood) between 17W & 18W
VT671	11-12W	0.08 *	0.16	Bridging	Bridging, 1/2 of the way up towards the peak
VT672	20-21E	0.07 *	0.07	Floor	Floor, 9.5 ft S & 10 ft W of column Beam 21
VT673	19-20E	0.07 *	0.07	Floor	Floor, 9.5 ft S & 10 ft W of column Beam 20
VT674	18-19E	0.17 *	0.17	Floor	Floor, 9.5 ft S & 10 ft W of column Beam 19
VT675	17-18E	0.15 *	0.15	Floor	Floor, 9.5 ft S & 10 ft W of column Beam 18
VT676	16-17E	0.14 *	0.14	Floor	Floor, 9.5 ft S & 10 ft W of column Beam 17

Table 4. (continued)

Sample ID ^a	Bay/room/structure/area ^b	Be ^c ($\mu\text{g/g}$) (μg)*	Be/area ($\mu\text{g}/\text{ft}^2$) ^d	Location in bay	Location notes ^e
VT677	15-16E	0.16 *	0.16	Floor	Floor, 9.5 ft S & 10 ft W of column Beam 16
VT678	14-15E	0.16 *	0.16	Floor	Floor, 9.5 ft S & 10 ft W of column Beam 15
VT679	13-14E	0.07 *	0.07	Floor	Floor, 9.5 ft S & 10 ft W of Col. 14
VT680	12-13E	0.08 *	0.08	Floor	Floor, 9.5 ft S & 10 ft W of Col. 13
VT681	11-12E	0.07 *	0.07	Floor	Floor, 5.5 ft S & 10 ft W of Col. 12
VT682	10-11E	0.07 *	0.07	Floor	Floor, 9.5 ft S & 10 ft W of Col. 11
VT683	9-10E	0.06 *	0.06	Floor	Floor, 9.5 ft S & 10 ft W of Col. 10
VT684	8-9W	0.15 *	0.15	Floor	Floor, 9.5 ft S & 10 ft E of Col. 9
VT685	9-10W	0.08 *	0.08	Floor	Floor, 9.5 ft S & 10 ft E of Col. 10
VT686	10-11W	0.15 *	0.15	Floor	Floor, 9.5 ft S & 10 ft E of Col. 11
VT687	11-12W	0.07 *	0.07	Floor	Floor, 9.5 ft S & 10 ft E of Col. 12
VT688	12-13W	0.16 *	0.16	Floor	Floor, 9.5 S & 26 ft E of Col. 13
VT689	13-14W	<0.05 *	<0.05	Floor	Floor, 9.5 ft S & 26 ft E of Col. 14
VT690	14-15W	<0.05 *	<0.05	Floor	Floor, 9.5 ft S & 26 ft E of Col. 15
VT691	15-16W	<0.05 *	<0.05	Floor	Floor, 9.5 ft S & 26 ft E of Col. 16
VT692	16-17W	<0.05 *	<0.05	Floor	Floor, 9.5 ft S & 32 ft E of Col. 17
VT693	17-18W	<0.05 *	<0.05	Floor	Floor, 9.5 ft S & 32 ft E of Col. 18
VT694	18-19W	0.05 *	0.05	Floor	Floor, 9.5 ft S & 32 ft E of Col. 19
VT695	19-20W	<0.05 *	<0.05	Floor	Floor, 9.5 ft S & 32 ft E of Col. 20
VT696	20-21W	<0.05 *	<0.05	Floor	Floor, 9.5 ft S & 32 ft E of Col. 21
VT697	8-9E	<0.05 *	<0.05	Floor	Floor, 9.5 ft S & 10 ft W of Col. 9
VT698	20-21E	<0.05 *	<0.10	Window	Wooden window ledge (middle window) in middle of bay
VT699	19-20E	<0.05 *	<0.10	Window	Wooden window ledge (middle window) in middle of bay
VT700	18-19E	<0.05 *	<0.10	Window	Wooden window ledge (middle window) in middle of bay
VT701	17-18E	0.37 *	0.74	Window	Wooden window ledge (middle window) in middle of bay
VT702	16-17E	<0.05 *	<0.10	Window	Wooden window ledge (middle window) in middle of bay
VT703	15-16E	<0.05 *	<0.10	Window	Wooden window ledge (middle window) in middle of bay

Table 4. (continued)

Sample ID ^a	Bay/room/structure/area ^b	Be ^c ($\mu\text{g/g}$) (μg) [*]	Be/area ($\mu\text{g/ft}^2$) ^d	Location in bay	Location notes ^e
VT704	14-15E	<0.05 *	<0.10	Window	Wooden window ledge (middle window) in middle of bay
VT705	13-14E	<0.05 *	<0.10	Window	Wooden window ledge (middle window) in middle of bay
VT706	12-13E	<0.05 *	<0.10	Window	Wooden window ledge (middle window) in middle of bay
VT707	11-12E	<0.05 *	<0.10	Window	Wooden window ledge, only window in bay
VT708	10-11E	<0.05 *	<0.10	Window	Wooden window ledge (middle window) in middle of bay
VT709	9-10E	<0.05 *	<0.10	Window	Wooden window ledge (middle window) in middle of bay
VT710	6-7S	<0.05 *	<0.10	Wall	Top of block wall in middle of bay
VT711	6-7S	<0.05 *	<0.10	Bridging	Bridging (E) 2/3 way up towards peak
VT712	5-6S	<0.05 *	<0.10	Wall	Top of block wall in middle of bay
VT713	5-6S	<0.05 *	<0.10	Bridging	Bridging (E), 2/3 of the way up towards peak
VT714	5S	<0.05 *	<0.10	Truss	Top of Truss 5 1/2 of the way up towards peak
VT715	4-5S	<0.05 *	<0.10	Wall	Top of block wall in middle of bay
VT716	4-5S	<0.05 *	<0.10	Window	Wooden window ledge on E window
VT717	5-6S	<0.05 *	<0.10	Window	Wooden window ledge of middle window
VT718	4-5S	<0.05 *	<0.10	Bridging	Bridging (E), 1/3 of the way up towards the peak
VT719	4S	<0.05 *	<0.10	Truss	Top of Truss 4), 1/3 of the way up towards peak
VT720	3-4S	<0.05 *	<0.10	Window	Wooden window ledge of the middle window
VT721	18W-19W	<0.05 *	<0.10	Window	Window ledge (wood) between 18W & 19W
VT722	19W-20W	<0.05 *	<0.10	Window	Window ledge (wood) between 19W & 20W
VT723	20W-21W	<0.05 *	<0.10	Window	Window ledge (wood) between 20W & 21W
VT724	6S-7S	<0.05 *	<0.10	Window	Window ledge (wood) between 6S & 7S
VT725	7S-8E	<0.05 *	<0.10	Window ledge	Window ledge (wood) between 7S & 8E, about 12 ft east of 7S (in south triangle)
VT726	7S-8E	<0.05 *	<0.10	Window ledge	Window ledge (wood) between 7S & 8E about 36 ft east of 7S (in south triangle)
VT727	7S-8E	<0.05 *	<0.10	Window ledge	Window ledge (wood) between 7S & 8E about 12 ft west of 8E (in south triangle)
VT728	8E-9E	<0.05 *	<0.10	Window	Window ledge (wood) between 8E & 9E
VT729	1N	0.08 *	0.16	Wall	Top of block wall (wood plate), W wall of wood shop, about 14 ft S of NW corner

Table 4. (continued)

Sample ID ^a	Bay/room/ structure/ area ^b	Be ^c ($\mu\text{g/g}$) (μg) [*]	Be/area ($\mu\text{g}/\text{ft}^2$) ^d	Location in bay	Location notes ^e
VT730	1N-2N	0.06 *	0.12	Window	Wooden window ledge between Col. 1N & 2N (about 4 ft W of 2N)
VT731	1N-2N	0.08 *	0.16	Wall	Top of block wall (block) between Col. 1N & 2N
VT732	1N	0.08 *	0.16	Wall	Top of block wall (wood plate), W wall of wood shop, about 28 ft S of NW corner
VT733	1N-2N	0.08 *	0.16	Bridging	Bridging, between 1N & 2N about 2/3 way to peak
VT734	1N	0.08 *	0.16	Truss	Top of truss, about 2/3 way to peak from Col. 1N (NW corner of wood shop)
VT735	2N	0.08 *	0.16	Truss	Top of truss, about 2/3 way to peak from 2N
VT736	2N-3N	0.08 *	0.16	Bridging	Bridging, about 2/3 way to peak between 2N & 3N
VT737	2N-3N	0.06 *	0.12	Window	Wooden window ledge between 2N & 3N
VT738	2N-3N	0.09 *	0.18	Wall	Top of block wall (wood plate) between 2N & 3N
VT739	3N-4N	0.18 *	0.36	Wall	Top of block wall (wood plate) between 3N & 4N
VT740	3N-4N	0.07 *	0.14	Window	Wooden window ledge between 3N & 4N
VT741	3N	0.08 *	0.16	Truss	Top of truss, about 1/2 way to peak from 3N
VT742	3N-4N	0.09 *	0.09	Stringer	Stringer (upper vertical surface) about 1/2 way to the peak between 3N & 4N
VT743	3N-4N	0.09 *	0.18	Bridging	Bridging about 1/2 way to the peak between 3N & 4N
VT744	4N	0.08 *	0.16	Truss	Top of truss about 1/3 way to peak from 4N
VT745	4N-5N	0.21 *	0.42	Window ledge	Concrete window ledge (about 1 ft & 8 in. below window) between 4N & 5N
VT746	4N-5N	<0.05 *	<0.10	Wall	Top of concrete block wall between 4N & 5N
VT747	4N-5N	<0.05 *	<0.10	Bridging	Bridging, about 1/3 way to peak between 4N & 5N
VT748	5N	<0.05 *	<0.10	Truss	Top of truss about 1/3 way to peak from 5N
VT749	5N-6N	<0.05 *	<0.10	Window	Wooden window ledge between 5N & 6N
VT750	5N-6N	<0.05 *	<0.10	Wall	Top of block wall (wood) between 5N & 6N
VT751	3-4S	<0.05 *	<0.10	Bridging	Bridging, 1/3 of the way up towards the peak
VT752	3S	<0.05 *	<0.10	Truss	Top of Truss 3, 2/3 way up towards peak
VT753	3-4S	<0.05 *	<0.05	Stringer	Stringer, top of peak, one stringer from peak
VT754	3-4S	<0.05 *	<0.10	Wall	Top of block wall in middle of bay
VT755	2S-3S	<0.05 *	<0.10	Window ledge	Concrete window ledge (about 1 ft & 8 in. below window) between 2S & 3S
VT756	2S-3S	<0.05 *	<0.10	Wall	Top of block wall (concrete) between 2S & 3S

Table 4. (continued)

Sample ID ^a	Bay/room/ structure/ area ^b	Be ^c ($\mu\text{g/g}$) (μg)*	Be/area ($\mu\text{g}/\text{ft}^2$) ^d	Location in bay	Location notes ^e
VT757	2S-3S	<0.05 *	<0.10	Bridging	Bridging, about 2/3 way to peak between 2S & 3S
VT758	2S	<0.05 *	<0.10	Window ledge	Wooden window ledge between 1S & 2S (SW corner of wood shop)
VT759	1S-2S	<0.05 *	<0.10	Wall	Top of block wall (concrete) between 1S & 2S
VT760	1S-2S	<0.05 *	<0.10	Bridging	Bridging, about 1/4 way to peak between 1S & 2S
VT761	1S-2S	<0.05 *	<0.05	Stringer	Stringer, about 1/4 way to peak between 1S & 2S
VT762	1S	0.09 *	0.18	Truss	Top of truss about 1/4 way to peak from Col. 1S (SW corner of wood shop)
VT763	1S	<0.05 *	<0.10	Wall	Top of block wall about 25 ft N of Col. 1S
VT764	2S	<0.05 *	<0.10	Truss	Top of truss about 1/2 way to peak from Col. 2S
VT765	5N-6N	<0.05 *	<0.10	Bridging	Bridging about 2/3 way to peak between 5N & 6N
VT766	12-13W	<0.05 *	<0.05	Stringer	Stringer, 2/3 of the way up towards the peak
VT767	19-20E	<0.05 *	<0.05	Stringer	Stringer, 2/3 of the way up towards the peak
VT768	1-2N	<0.05 *	<0.05	Floor	Floor, 9.25 ft E & 10 ft S of Col. 1
VT769	2-3N	<0.05 *	<0.05	Floor	Floor, 9.5 ft E & 10 ft S of Col. 2
VT770	3-4N	<0.05 *	<0.05	Floor	Floor, 9.5 ft E & 10 ft S of Col. 3
VT771	4-5N	<0.05 *	<0.05	Floor	Floor, 9.5 ft E & 10 ft S of Col. 4
VT772	5-6N	<0.05 *	<0.05	Floor	Floor, 9.5 ft E & 10 ft S of Col. 5
VT773	6-7N	<0.05 *	<0.05	Floor	Floor, 9.5 ft E & 10 ft S of Col. 6
VT774	7-12N	<0.05 *	<0.05	Floor	Floor, 9.5 ft E & 10 ft S of Col. 7; This area is a pie- shaped section
VT775	7-12S	<0.05 *	<0.05	Floor	Floor, middle of the pie-shaped section bay, 28 ft N of Col. 7
VT776	6-7S	<0.05 *	<0.05	Floor	Floor, 9.5 ft E & 28 ft N of Col. 6
VT777	5-6S	0.08 *	0.08	Floor	Floor, 9.5 ft E & 28 ft N of Col. 5
VT778	4-5S	<0.05 *	<0.05	Floor	Floor, 9.5 E & 28 ft N of Col. 4
VT779	3-4S	<0.05 *	<0.05	Floor	Floor, 9.5 ft E & 28 ft N of Col. 3
VT780	2-3S	<0.05 *	<0.05	Floor	Floor, 9.5 ft E & 28 ft N of Col. 2
VT781	1-2S	<0.05 *	<0.05	Floor	Floor, 9.25 ft E & 28 ft N-of Col. 1
VT782	41-42W	0.08 *	0.16	Bridging	Bridging (taken before add. recleaning) room N of refrig.rm. & 10 ft S&W of Col. 42.
VT783	MS-4	<0.05 *	<0.10	Bridging	Bridging, Bay 39-40W, refrigeration room in mid. side of bay, MS-3 middle of the bay, MS-4

Table 4. (continued)

Sample ID ^a	Bay/room/structure/area ^b	Be ^c ($\mu\text{g/g}$) [*]	Be/area ($\mu\text{g}/\text{ft}^2$) ^d	Location in bay	Location notes ^e
VT784	MS-4	0.20 *	0.40	Bridging	Bridging, Bay 37-38W, refrigeration room in middle of the bay, MS-4
VT785	MS-3	<0.05 *	<0.10	Bridging	Bridging, Bay 36-37W, refrigeration room on S side bay
VT786	MS-1	0.09 *	0.18	Bridging	Bridging, Bay 24-25W, electrical room about 10 ft W & 10 ft S of Col 25W, MS-1
VT787	MS-1	<0.05 *	<0.10	Bridging	Bridging, bay 24-25W, electrical room about 20 ft W & 20 ft S of Col. 25W, MS-1
VT788	MS-1	0.26 *	0.52	Bridging	Bridging, Bay 23-24W, electrical room about 5 ft 2 ft W & 10 ft S of Col. 24W, MS-1
VT790	Drain 42	0.27 *	0.54	Drain	Sanitary drain pipe (running N to S of bldg.) at 2 ft & 1 in. E of Col. 27W
VT791	Refrig. rm.	0.33 *	0.66	Floor	Floor in refrigeration room over old VM449 location
VT792	Refrig. rm.	0.05 *	0.20	Floor	Floor in refrigeration room over old VM451 location
VT793	Refrig. rm.	0.42 *	0.84	Floor	Floor in refrigeration room over old VM451 location
VT794	Refrig. rm.	<0.05 *	<0.10	Floor	Floor in refrigeration room over old VM452 location
VT795	Refrig. rm.	0.34 *	0.68	Floor	Floor in refrigeration room over old VM453 location
VT796	38W	0.21 *	0.21	Floor	Floor in same location as previous sample (VM464) which is near Col. 38W
VT797	38W	0.19 *	0.19	Floor	Smear was taken at the same location of the previous sample (VM465) near Col. 38W
VT798	39W	0.83 *	0.83	Floor	Floor smear at same location of previous sample (VM466) in ref. rm. near Col. 39W
VT799	26-27E	0.10 *	0.10	Stringer	Upper side of stringer between 26E & 27E after addition. cleaning performed
VT801	20-21E	0.08 *	0.16	Wall	Top of block wall (wood plate) between 20E & 21E after add. clean. near old VT567
VT803	25E	0.10 *	0.10	Other	Ceiling "I" beam (previously smeared for Be) at 6.5 ft N and 13 ft E of Col. 25E
VT804	24E	0.12 *	0.12	Other	Ceiling "I" beam (previously smeared) at 9.5 ft N & 2 ft E of Col. 24E
VT805	24E	0.11 *	0.11	Other	Ceiling "I" beam at 2.33 ft S & 13 ft E of Col. 24E
VT806	24E	0.13 *	0.13	Other	Ceiling "I" beam at 13.5 ft S & 2 ft E of Col. 24E
VT807	28-29E	1.3*	1.3	Window ledge	Concrete window ledge (additional cleaning after old VT455) between Col. 28E & 29E

Table 4. (continued)

Sample ID ^a	Bay/room/ structure/ area ^b	Be ^c ($\mu\text{g/g}$) (μg) [*]	Be/area ($\mu\text{g}/\text{ft}^2$) ^d	Location in bay	Location notes ^e
VT808	26-27E	1.3*	1.3	Window ledge	Concrete window ledge (additional cleaning after old VT459) between Col. 26E & 27E
VT809	2N	0.09 *	0.09	Other	Light fixture, ~12 ft S of Col. 2N same location as old VM448 after add. cleaning.
VT810	5S	0.09 *	0.09	Other	Light fixture about 1/2 way to peak from Col. 5S
VT811	11W	0.09 *	0.09	Other	Light fixture (additional cleaning after old VM447) about 1/4 way to peak from 11W
VT812	15E	0.09 *	0.09	Other	Light fixture about 8 ft E of peak at Col. line 15E
VT813	18W	0.08 *	0.08	Other	Light fixture about 6 ft W of peak on Col. line 18W
VT814	20E	0.09 *	0.09	Other	Light fixture about 1/3 way to peak from Col. 20E
VT815	42W	0.08 *	0.08	Other	Light fixture about 10 ft E of Col. 42W
VT816	39E	0.19 *	0.19	Other	Light fixture about 17 ft W of Col. 39E
VT817	36W	0.11 *	0.11	Other	Light fixture about 16 ft E of Col. 36W
VT818	32E	0.25 *	0.25	Other	Light fixture about 20 ft W of Col. 32E
VT819	29W	0.45 *	0.45	Other	Light fixture about 22 ft E of Col. 29W
VT820	26E	0.30 *	0.30	Other	Light fixture about 12 ft W of Col. 26E
VT821	23W	0.13 *	0.13	Other	Light fixture about 25 ft E of Col. 23W
VT823	27W	0.24 *	0.24	Wall	Boiler room sand box wall (same wall as VM456)
VT825	27W	0.17 *	0.17	Wall	Boiler room sand box wall 15 ft due N of Col. ft due N of Col. 27W
VT827	27W	0.24 *	0.24	Wall	North wall of boiler room sand box (same wall as VM455) near Col. 27W
VT829	27W	0.33 *	0.33	Wall	Boiler room sand box north wall near Col 27W
VT830	27W	0.24 *	0.24	Wall	Boiler room sand box west wall (same wall as VM454) near Col. 27W
VT831	27W	0.21 *	0.21	Wall	Boiler room sand box west wall at 10.5 ft N and 19 ft & 1 in. W of Col. 27W.
VT863	Drain	0.40 *	0.80	Drain	Horizontal cast iron drain pipe 38 ft N & 12 ft W of Col. 2S; a VT840 resmear
VT864	Drain 13	0.40 *	1.6	Drain	Cast iron drain pipe at 21 ft S & 10 ft W of Col. 2N; a resmear of VT842
VT865	Drain 57	0.40 *	0.80	Drain	Cast iron drain 57 pipe at 33 ft S & 6 ft E of Col. 5N; supplements VM481
VT867	Drain 55	0.40 *	0.80	Drain	Drain 55 pipe at 33 ft, S & 7 ft E of Col 5N; a resmear of VT850

Table 4. (continued)

Sample ID ^a	Bay/room/structure/area ^b	Be ^c ($\mu\text{g/g}$) [*]	Be/area ($\mu\text{g/ft}^2$) ^d	Location in bay	Location notes ^e
VT868	Drain 54	0.40 *	0.80	Drain	Cast iron drain 54 pipe at 32 ft S & 7 ft E from Col. 28E; a resmear of VT508
VT870	Drain 39	0.64 *	1.3	Drain	Clay drain pipe at 31 ft & 5 in. W, and 8 ft S of Col. 27E
VT871	Drain 64	0.40 *	1.6	Drain	Cast clay drain pipe at 28 ft & 10 in. W and 8 ft S of Col. 27E
VT872	Truss	0.40 *	0.80	Truss	Lower truss support about 1/4 way toward peak from Col. 28 E; a resmear of VT508
VT873	28E	0.40 *	0.80	Truss	Upper truss about 1/4 way to peak from Col. 28E; a resmear of VT510
VT874	25-26W	0.40 *	0.80	Bridging	Bridging about 1/3 way to peak from between 25W & 26W; a resmear of VT542
VT875	24-25W	0.40 *	0.80	Window ledge	Window ledge between 24W & 25W; a resmear of VT519 & VT836
VT876	24-25E	0.40 *	0.40	Wall	Top of block wall (wood plate) between 24E & 25E; a resmear of VT511 & VT838
VT877	23-24W	0.40 *	0.80	Bridging	Bridging about 3/4 way to peak between 23W & 24W; a resmear of VT550.
VT878	23-24E	0.82 *	0.82	Other	Top of corner concrete header between 23E & 24E; a resmear of VT800
VT881	Drain	0.40 *	0.80	Drain	Horizontal drain line opening at 21 ft E & 7 ft S of Col. 26W.
VT885	22W	0.62 *	0.62	Floor	Old floor under raised floor at 1 ft W & 1 ft S of NE corner of closet
VT887	22W	0.38 *	0.38	Wall	First (from floor) N wall block face at 7 ft from NE corner of old health physics office
VT889	22W	0.22 *	0.22	Floor	Old tile floor (under carpet) in NE corner of old health physics office (west of Col. 22W)
VT891	22W	0.43 *	1.7	Other	Top of sprinkler system pipe above drop ceiling in NE corner of old health physics office
VT892	Drain pit	0.40 *	0.80	Drain	Smear (to 6 in. depth) clay drain pipe to a pit at 7.5 ft S & 3 ft E of Col. 24W
VT894	Drain pit	0.40 *	0.80	Drain	Smear (to 6 in. depth) of a clay drain to a pit at 7.5 ft S & 3 ft E of Col. 24W
VT896	Drain	0.40 *	1.3	Drain	Smear (10 in. deep) of black iron drain pipe at 2 ft N & 2.25 ft E of Col. 24W
VT900	Drain 38	0.40 *	0.80	Drain	Drain pipe smear at 11.5 ft S & 4.5 ft E of Col. 26W

Table 4. (continued)

Sample ID ^a	Bay/room/structure/area ^b	Be ^c ($\mu\text{g/g}$) (μg) [*]	Be/area ($\mu\text{g}/\text{ft}^2$) ^d	Location in bay	Location notes ^e
VT902	Drain 43	0.40 *	0.80	Drain	Drain pipe smear (to 6 in. vertical depth) at 1.5 ft N & 2 ft E of Col. 28W
VT904	Drain 1	0.40 *	0.80	Drain	Drain pipe smear (to vertical depth of 6 in.) at 1 ft S & 20.5 ft E of Col. 29W
VT906	Drain 45	0.40 *	0.80	Drain	Drain pipe smear (to vertical depth of 10 in.) at 7.5 ft S & 31 ft E of Col. 30W
VT908	Drain 59	0.40 *	0.80	Drain	Drain pipe smear (to 6 in. vertical depth) at 20.5 ft east of Col. 31W
VT911	Drain 69	0.40 *	1.6	Drain	Roof drain 2 (just inside horizontal access) at 0 18 ft due E of Col. 37W
VT913	2N	0.23 *	0.46	Other	Top of steam line (just below ceiling) at 14 ft due N of Col. 2N in Room WS-1
VT914	2N	0.29 *	0.58	Window	Window ledge due N of Col. 2N at N wall in room WS-1
VT915	3N	0.18 *	0.36	Other	Sprinkler line (just below ceiling) at 3 ft N & 2 ft W of Col. 3N in Room WS-2
VT916	2N	0.26 *	0.26	Floor	Concrete floor in WS-1 area at 10 ft due N of Col. 2N
VT918	3N	0.32 *	0.32	Floor	Concrete floor in WS-2 area at 10 ft due N of Col. 3
VT920	3N	<0.10 *	<i>f</i>	Floor	Concrete floor in WS-3 area (men's bathroom) at 10 ft N & 10 ft E of Col. 3N
VT922	4N	0.18 *	0.18	Floor	Concrete floor in WS-4 area at 8 ft N and 6 ft E of Col. 4N
VT924	5N	0.31 *	0.31	Floor	Concrete floor (WS-5) area at 7 ft N & 5 ft E of Col. 5N
VT925	3N	0.51 *	1.0	Window ledge	Visibly very dirty wooden window ledge 10 ft E of Col. 3N at N wall in WS-3
VT926	4N	<0.10 *	<0.10	Other	Upper surface of sheetrock (equal to bridging) 12 ft due N of Col. 4N in WS-4
VT927	4N	<0.10 *	<0.10	Wall	Top of block wall (shower room partition) at 3 ft due N of Col. 4N in WS-4
VT928	5N	<0.10 *	<0.20	Other	Top of steam line (just below ceiling) 14 ft due N of Col. 5N in Room WS-5
VT929	5N	<0.10 *	<0.20	Window ledge	Wooden window ledge 6 ft W of Col. 5N at north wall in room WS-5
VT930	6N	<0.10 *	<0.10	Other	Top of "I" beam (runs N to S) at 8 ft N & 4 ft W of Col. 6N in Room WS-6
VT931	6N	<0.10 *	<0.20	Other	Top of sprinkler line at 10 ft E & 4 ft N of Col. 6N in room WS-6

Table 4. (continued)

Sample ID ^a	Bay/room/structure/area ^b	Be ^c ($\mu\text{g/g}$) (μg)*	Be/area ($\mu\text{g}/\text{ft}^2$) ^d	Location in bay	Location notes ^e
VT933	6N	0.11 *	0.11	Floor	Concrete floor (WS-6) area at 9 ft N & 5 ft W of Col. 6N.
VT935	7N	0.12 *	0.12	Floor	Tile floor in Allwash tool room of WS-7 area at 10 ft N & 2 ft E of Col. 7N
VT937	7N	0.12 *	0.12	Floor	Tile floor of Allwash storage rm. (WS-8) entrance at 5 ft N & 10 ft E of Col. 7N
VT939	7N	0.10 *	0.10	Floor	Carpet area in Allwash storage rm. (WS-8) at 9 ft & 9 ft E of Col. 7N
VT941	7N	<0.10 *	<0.20	Other	Top of sprinkler line at 16 ft N & 4 ft W of Col. 7N in room WS-7
VT942	7N	<0.10 *	<0.20	Other	Top of steam line at 2 ft N & 12 ft E of Col. 7N in room WS-8
VT943	13W	0.27 *	0.54	Other	Top of steam line at 4 ft N & 15 ft W of Col. 13W in room WS-9.
VT944	13W	0.19 *	0.38	Other	Top of steam line at 15 ft N & 15 ft W of Col. 13W in room WS-10
VT945	13W	<0.10 *	<0.10	Floor	Carpeted surface in KAPL office area (WS-9) at 4 ft N & 16 ft W of Col. 13W
VT946	13W	<0.10 *	<0.10	Floor	Carpeted area of entrance room (WS-10) at 15 ft N & 9 ft W of Col. 13W
VT948	MS-1	0.28 *	0.28	Stack	Stack floor (center) sampled east of VM515
VT950	MS-1	0.15 *	0.15	Stack	Stack south inside wall at 9.5 ft above stack floor level (directly above VM516)
VT951	MS-1	<0.10 *	<0.10	Stack	Stack west inside wall at 20.5 ft floor level or 6 in. above VM518
VT953	MS-1	0.32 *	0.32	Stack	Stack north inside wall (very porous red brick surface) at 30 ft from stack floor
VT955	MS-1	0.14 *	0.14	Stack	Stack east inside wall (red brick surface) at 40 ft above stack floor level
VT956	MS-1	0.18 *	0.18	Stack	Stack south inside wall (red brick surface) directly below VM522
VT959	Drain 49	0.10 *	0.20	Drain	Drain 49 (sampled from 2 in. to 9.5 in. depth) at 3 ft N & 5 ft E of Col. 6S
VT960	Drain 50	0.13 *	0.26	Drain	Clay pipe drain 50 (elbow at 3 in.) at 7.5 ft N & 10 ft E of Col. 3N
VT962	27W	0.19 *	0.19	Wall	Top of west block wall in coal room at 12 ft N and 19 ft & 1 in. W of Col. 27W

Table 4. (continued)

Sample ID ^a	Bay/room/structure/area ^b	Be ^c ($\mu\text{g/g}$) (μg)*	Be/area ($\mu\text{g}/\text{ft}^2$) ^d	Location in bay	Location notes ^e
VT964	27W	0.12 *	0.24	Bridging	Bridging in coal room at 10.5 ft N & 14 ft W of Col. 27W
VT965	27W	<0.10 *	<0.10	Other	Top of steam line (running N-S) at 16 ft N & 12.5 ft W of Col. 27W in coal room
VT966	27W	0.35 *	0.70	Bridging	Bridging in the coal room at 17 ft N & 6 ft W of Col. 27W
VT967	27W	0.29 *	0.29	Stringer	Stringer in the coal room at 14 ft N & 10 ft W of Col. 27W
VT968	27W	0.18 *	0.18	Other	Top of steam line in coal room at 5 ft N & 2.5 ft W of Col. 27W
VT969	27W	0.32 *	0.64	Bridging	Bridging in coal room at 6 ft N & 6 ft W of Col. 27W
VT970	27W	0.40 *	0.40	Wall	Top of south block wall in the coal room at 5 ft due W of Col. 27W
VT971	27W	0.44 *	0.44	Wall	Vertical surface (east wall in coal room) at 5 ft due N of Col. 27W
VT973	27W	0.23 *	0.23	Wall	Vertical surface (west wall in coal room) at 5 ft and 19 ft 1 in. W of Col. 27W
VT974	27W	0.28 *	0.28	Wall	Vertical surface (south wall in coal room) at 14 ft due W of Col. 27W
VT975	27W	0.38 *	0.38	Floor	Floor (coal room) at 3 ft N & 14 ft W of Col. 27W and at boiler room level
VT976	27W	0.40 *	0.40	Floor	Floor (coal room) at 5 ft N & 5.5 ft W of Col. 27W and at boiler room level
VT985	Drain 2	0.13 *	0.26	Drain	Drain (smeared to vertical depth of 6 in.) at 28 ft W & 2 ft N of Col. 25E
VT986	Drain 56	0.19 *	0.38	Drain	Drain (smeared to 12 in. vertical depth) at 32 ft S & 6 ft E of Col. 5N
VT987	26W	<0.10 *	<0.10	Wall	Top of block wall above boiler room S door at 15 ft S & 11 ft W of Col. 26W
VT988	27W	0.19 *	0.19	Other	Top of condensate tank (boiler room overhead) at 3 ft S & 6 ft W of Col. 27W
VT989	27W	0.17 *	0.17	Bridging	Both bridging slats (boiler room overhead) at 1 ft S & 6 ft W of Col. 27W
VT990	27W	<0.10 *	<0.10	Other	Top of the support beam of condensate tank at 6.33 ft S & 8.5 ft W of Col. 27W
VT991	26W	0.15 *	0.15	Other	Top of steam line in boiler room overhead at 19 ft S & 2.5 ft W of Col. 26W

Table 4. (continued)

Sample ID ^a	Bay/room/structure/area ^b	Be ^c ($\mu\text{g/g}$)*	Be/area ($\mu\text{g}/\text{ft}^2$) ^d	Location in bay	Location notes ^e
VT992	26W	0.15 *	0.15	Bridging	Both bridging slats in boiler room overhead at 12 ft S & 13 ft W of Col. 26W
VT993	27W	0.21 *	0.21	Floor	Floor in boiler room (north end near steps) at 7 ft S & 8.5 ft W of Col. 27W
VT995	27W	0.11 *	0.11	Floor	Boiler room floor (north end of west boiler pit) at 12 ft S & 11 ft W of Col. 27W
VT996	26W	0.21 *	0.21	Floor	Boiler rm. (W boiler pit) at 12 ft due W of Col. 26W
VT997	26W	0.13 *	0.13	Floor	Boiler rm. (E boiler pipe) at 4 ft due W of Col. 26W
VT998	26W	0.43 *	0.43	Floor	Top of concrete separator on boiler room floor at 9.33 ft due W of Col. 26W
VT999	26W	0.17 *	0.17	Floor	Boiler room floor (south end near S entrance) at 12 ft S & 11 ft W of Col. 26W
VT1001	26W	0.12 *	0.12	Window ledge	West window ledge in boiler room at 18.5 ft due W of Col. 26W
VT1002	27W	0.13 *	0.13	Other	East sidewall of north end sump pit (E boiler pit) at 9 ft & 5 in. S of Col. 27W
VT1003	Drain 37	<0.05 *	<0.20	Drain	Drain (2 in. vertical) at 3.5 ft N & 17 ft E of Col. 25W; a recheck of VT984
VT1004	30W	<0.05 *	<0.05	Wall	Fire header closet wall (vert. surface) at 3.58 ft S and 19.25 ft W of Col. 30W
VT1005	32W	<0.05 *	<0.05	Wall	West vertical surface of wall at 1 ft & 2 in. S and 19.25 ft W of Col. 32W
VT1006	Drain 25	f	<0.05	Drain	Sidewalls of drainpipe
VT1007	Drain 25	f	<0.05	Drain	Sidewalls of drainpipe

^aSamples designated "VM" are dust/debris or insulation; "VT" samples are smears. Locations are shown on Figs. 3 through 7. Not all numbers in the sample numbering system were used. Most gaps in the sample numbering system can be accounted for by the fact that much of the supplementary survey, remedial activities, and the verification survey were conducted simultaneously. This document and the document relating the details of the supplementary characterization survey [ORNL-6623 (Supplement)] considered together, contain all the data collected to assess the condition of the site.

^bBeams are numbered; N, S, E, W, C designate north, south, east, west, and center; MS = metal shop; WS = wood shop.

^cAnalytical results showing concentrations of beryllium are in $\mu\text{g/g}$ unless otherwise indicated; i.e., * = μg .

^dConcentrations of beryllium in $\mu\text{g}/\text{ft}^2$ are the result of calculations performed using the sample size.

^eAdditional commentary for entries preceded by an asterisk is given in Table 4.

f/No calculation/analysis performed.

Table 5. Additional notations for selected indoor samples collected for the independent verification survey of 425 Peek Street

Sample ID ^a	Room/ structure/ area ^b	Location in bay	Location notes ^c
VM405	Drain 10	Other	Only upper 2 in. of pipe can be probed, msrments at step down.
VM406	Drain 10	Other	Composite sample in interval 3 to 8 in. (involving walls) and neck of drain pipe at 11 in.
VM407	Drain 11	Other	No probe beyond 2 in. msrments at step-down (2 in.) sample at 3-8 in. interval.
VM415	Drain 17	Other	Surface readings taken at top 2 in. of pipe. Sample depth = 0-1.5 in.
VM417	Drain 18	Other	Surface readings taken from bottom of pit (2 ft × 2 ft), sample depth = 32 in.
VM419	Drain 24	Other	Surface readings taken from larger of 2 drain openings (B) 13 in.
VM420	Drain 24	Other	It appears that Pipe A is connected to Pipe B by a conducting pipe sloping downward toward pipe B.
VM421	Drain 25	Other	Surface readings taken at the top of 1.5 in. pipe.
VM426	Drain 49	Other	Surface readings taken at top 2 in. of drain.
VM428	Drain 26	Other	Surface readings taken at ~50 in., appears to be clay pipe at 12 in.
VM443	31W	Floor	Floor dust of crane rail track near (7 ft E & 3 ft 4 in. N) Col. 31W. Rad. readings (beta-gamma) were taken at this sample site. Sample was aliquoted and the duplicate (for ORNL) was assigned VM433A
VM444	32E	Floor	Floor dust under the gas bottle rack at 6 in. W & 1 ft 7 in. N of Col. 32E. Rad. readings (beta-gamma & alpha) were made at this site. sample was split and the duplicate was assigned (ORNL) VM444A.
VM445	38W	Floor	Floor depression near (20 ft 11 in. E & 5 ft 3 in. N) Col. 38W. Rad readings (beta-gamma & alpha) were taken and the sample was aliquoted so ORNL could have a duplicate (VM445A) specimen.
VM446	34E	Floor	Floor dust from under the transformer near (4 ft 10 in. N & 1 ft 11 in. W) Col. 34E. This sample was aliquoted so ORNL could have the duplicate (VM446A) specimen. Rad. readings were taken (beta-gamma & alpha) at the site.
VM449	36W	Floor	This material is a floor coating of paint & etc. scraped from the original floor.
VM450	39W	Floor	This material is a floor coating of paint & etc. scraped from the original floor.
VM451	40W	Floor	This material is a floor coating of paint & etc. scraped from the original floor.
VM452	39W	Floor	This material is a floor coating of paint & etc. scraped from the original floor.
VM453	36W	Floor	This material is a floor coating of paint & etc. scraped from the original floor.

Table 5. (continued)

Sample ID ^a	Room/ structure/ area ^b	Location in bay	Location notes ^c
VM457	Drain 4	Drain	The sample was taken at north access (5 ft 6 in. below floor) to Drain 3 which is located 26 ft W & 4 ft S of Col. 23E and was divided into 2 aliquots to provide ORNL with a rad sample (VM458). VM457 is for Be analysis.
VM461	Drain 2	Drain	The sample was taken at the base of Drain 2 south access.
VM464	38W	Floor	This location is 9.5 ft W and 10.5 ft S of Col. 38W.
VM465	38W	Floor	The sample location is the refrigeration room original floor at 9.5 ft W and 10 ft N of Col. 38W. A photograph was made of this sampling location.
VM466	39W	Floor	This refrigeration room original floor (after removal of top concrete & styrofoam coatings) is located 9.5 ft W and 10 ft N of Col. 39W.
VM472	23E	Drain	This location is 25 ft & 6 in. W and 1 ft S of Col. 23E and is the same site as sample VM471.
VM476	2S	Drain	VM473 was taken at this location for rad & gamma spec. analysis
VM477	2S	Drain	Sample VM474 was taken at this location for rad analysis.
VM479	Drain 52	Drain	N.D. on beta-gamma scan. Sample VT844 taken at this location for rad analysis.
VM483	2S	Drain	N.D. on the beta-gamma scan; sample VM482 taken at this location for rad analysis.
VM487	27E	Drain	Sample VM488 was taken at this location for rad analysis.
VM489	2S	Drain	N.D. on the beta-gamma scan; Sample VM484 was taken at this same location for rad analysis.
VM490	24W	Drain	Galvanized floor drain with an elbow at 16 in. (sample scooped from debris at this depth) and turning due E. Location is 4 ft N & 8 ft E of Col. 24W at extreme west wall of MS-1 and connects to location of VT896. Sample VT897 was taken at the 4 in. depth.
VM492	24W	Drain	Composite collected at all depths up to 2 ft from side walls of 4 in. diameter cast iron pipe with elbow at 24 in. which turns due east. Location is at the extreme west wall of MS-1 & connects to location of VT897 & VM490.
VM493	32W	Drain	2-in. diameter galvanized drain pipe running 12 in. horizontal south before turning toward the floor (elbow) at the base of Col. 32W. Ref. KAPL 69 for rad scan to a depth of 12 in. Scoop-composite sample taken along entire 12 in. length of bottom radius of pipe.
VM494	32W	Drain	3-in. diameter black iron pipe 16 in. deep to debris (trash) obstruction. Sample collected from entire side walls up to the obstruction. See VM495 for the sample for rad analysis at this location.

Table 5. (continued)

Sample ID ^a	Room/structure/area ^b	Location in bay	Location notes ^c
VM496	44E	Drain	4-in. diameter cast iron Drain pipe (length undetermined) to main trunkline near Col. 44E (flat wall). Scoop sample taken on bottom radius side wall at horizontal length of 30 in. Ref. KAPL 63 connecting to KAPL 62. VM513 taken at this location for rad
VM497	42W	Drain	2 in. diameter cast iron drain pipe at Col. 42W in SE corner of MS-8. Sample collected from debris in horizontal access; vertical access obstructed by rust, debris, & etc. VM498 is the rad sample collected at this location. Ref. KAPL 77.
VM499	37W	Drain	2 in. diameter galvanized pipe roof Drain 2 near Col. 37W (extreme west column in refrig. room) had sample scraped from side wall to a 3.5 ft depth with tape attached to snake lead. rad scan depth to 2 in. due to horizon. entrance access. Ref. KAPL 69
VM502	26W	Drain	This 3 in. cast iron horizontal drain line opening is about 1.5 ft below the floor and runs NE to SE. This sanitary line is clogged with debris about 6 in. inside. This is the same location as VM501 (a rad sample with N.D. above BG for the beta-gamma)
VM504	26W	Drain	This is a 4 in. cast iron drain. The beta-gamma scan is N.D. above BG (37 cpm; = 0.02 mrad/h) and sample VM503 was taken at this same location for rad analysis. The Be will be reported in ugms. per gm. only.
VM506	26W	Drain	This drain line opening is about 2 ft below the floor level and is clogged with debris. The beta-gamma scan was N.D. above BG (37 cpm; = 0.02 mrad/h) and sample VM505 was taken at the same location for rad analysis. The Be will be reported as ugms. per gm. only.
VM507	27W	Drain	This south-running 4-in. cast iron drain opening is about 4 ft below floor level and was logged for radon 12-11-93. The beta-gamma scan was N.D. above BG (37 cpm; = 0.02 mrad/h) and sample VT883 (lack of sample required a smear) was taken at this location for rad
VM508	30E	Drain	This drain line runs west to east and is about 2 ft below the floor level. VT884 was smeared for rad analysis at this location as no debris was available to sample.
VM510	34W	Drain	The 4 in. diameter cast iron pipe runs north to south and is about 3 ft below floor level. Sample VM509 was collected at this location for rad analysis.
VM514	4N	Drain	This 1.5-in. diameter pipe is 14 in. deep to elbow and turns south. The sample was taken from the side walls and elbow debris at a 14 in. depth and is a resample of VM480. Ref. KAPL 53. The beta-gamma scan was N.D. above BG (40 cpm; = 0.02 mrad/h).
VM515	Stack	Floor	VT949 was taken for rad analysis near this location (south of VM515).

Table 5. (continued)

Sample ID ^a	Room/ structure/ area ^b	Location in bay	Location notes ^c
VM517	Stack	Wall	This sample was taken directly east of VM516 (the sample for rad analysis).
VM518	Stack	Wall	This location had a beta-gamma background of 120 cpm (0.06 mrad/h) taken in the center of stack with probe facing upward. The rad sample taken near this location (north side of VM518 abutting edge) is VT952.
VM519	Stack	Wall	This location had a beta-gamma background of 98 cpm (0.05 mrad/h) with the probe facing up. Sample VT954 was taken near this location (directly east) for rad analysis.
VM520	Stack	Wall	The beta-gamma background was 72 cpm (0.04 mrad/h) with the probe facing up. Sample VM521 was taken directly above VM520 for rad analysis.
VM522	Stack	Wall	The beta-gamma background with the probe facing up was 64 cpm (0.03 mrad/h) at this location.
VM523	Stack	Wall	Brick was sawed to collect the sample which will serve as a background sample as it was never exposed to the environs. Beta-gamma scan was 59 cpm (10 cpm above BG = 0.03 mrad/h) at this location and sample VM524 is the rad sample for this location.
VM525	Drain 51	Drain	This 3-in. iron pipe (possibly located near Col. 3N) had kerosene present and appears to have been KAPL cleaned before smear and sample collection. Sample VT977 was taken in the drain basin (15.5 ft N & 10 ft E of Col. 3N) for rad analysis.
VM526	Stack	Wall	This sample was red brick from the wall to be used to determine background Be content of the material. The location was 2 ft N of SE corner of room at 5 ft above the concrete floor. VM527 was collected for rad background determination at this location
VM528	Boiler	Boiler	Beta-gamma scan N.D. above background. Sample VM530 was taken nearby for rad analysis.
VM529	Boiler	Boiler	Beta-gamma scan N.D. above background. Sample VM531 was taken nearby for rad analysis.
VM532	26W	Drain	This 4 in. diameter drain (depth not taken) is located in the south end of the boiler room. The beta-gamma scan is N.D. above background.
VM533	27W	Drain	This 4 inch diameter drain (depth not taken) is located in the boiler room at 4 ft S & 1 ft W of Col. 27W. The beta-gamma scan was N.D. above background.
VT270	Drain 09	Other	"Smears 2 in. - 6 in. depth; insufficient mat'l for sample" This was intended for Be analysis.
VT272	Drain 12	Other	"Insuff. mat'l for sample; debris at bottom could not be gotten; smeared at 2 in. stepdown"
VT274	Drain 14	Other	"smeared where probed; bottom obscured by debris (regular trash: cups,etc.) "

Table 5. (continued)

Sample ID ^a	Room/ structure/ area ^b	Location in bay	Location notes ^c
VT279	NE corner	Floor	Location was scanned for beta-gamma and alpha before smearing.
VT280	43E	Floor	Location scanned for beta-gamma & alpha before smearing.
VT281	42E	Floor	Location was scanned for beta-gamma & alpha before smearing.
VT282	41E	Floor	Location was scanned for beta-gamma & alpha prior to smearing.
VT283	40E	Floor	Location was scanned for beta-gamma & alpha before smearing.
VT284	39E	Floor	Location was scanned for beta-gamma & alpha prior to smearing.
VT285	38E	Floor	Location was scanned for beta-gamma & alpha before smearing.
VT286	37E	Floor	Location was scanned for beta-gamma & alpha before smearing.
VT287	36E	Floor	Location was scanned for beta-gamma & alpha before smearing.
VT288	35E	Floor	Location was scanned for beta-gamma & alpha before smearing.
VT289	34E	Floor	Location was scanned for beta-gamma & alpha before smearing.
VT290	33E	Floor	Location scanned for beta-gamma & alpha before smearing.
VT291	32E	Floor	Location was scanned for beta-gamma & alpha before smearing.
VT292	32W	Floor	Location was scanned for beta-gamma & alpha before smearing.
VT293	33W	Floor	Location was scanned for beta-gamma & alpha before smearing.
VT294	34W	Floor	Location was scanned for beta-gamma & alpha before smearing.
VT295	35W	Floor	Location was scanned for beta-gamma & alpha before smearing.
VT296	36W	Floor	Location was scanned for beta-gamma & alpha before smearing.
VT297	37W	Floor	Location was scanned for beta-gamma & alpha before smearing.
VT298	38W	Floor	ocation was scanned for beta-gamma & alpha before smearing.
VT299	39W	Floor	Location was scanned for beta-gamma & alpha before smearing.
VT300	40W	Floor	Location was scanned for beta-gamma & alpha before smearing.
T301	41W	Floor	Location was scanned for beta-gamma & alpha before smearing.
VT302	42W	Floor	Location was scanned for beta-gamma & alpha before smearing.
VT303	43W	Floor	Location was scanned for beta-gamma & alpha prior to smearing.
VT304	NW corner	Floor	NW corner of bldg. Location was scanned for beta-gamma & alpha before smearing.
VT305	43W	Floor	Pre-smear beta-gamma & alpha scans conducted.
VT306	42W	Floor	Pre-smear beta-gamma & alpha scans conducted.
VT307	41W	Floor	Pre-smear beta-gamma & alpha scans conducted.
VT308	40W	Floor	Pre-smear beta-gamma & alpha scans conducted.
VT309	40W	Floor	Pre-smear beta-gamma & alpha scans conducted.

Table 5. (continued)

Sample ID ^a	Room/ structure/ area ^b	Location in bay	Location notes ^c
VT310	39W	Floor	Pre-smear beta-gamma & alpha scans conducted.
VT311	38W	Floor	Pre-smear beta-gamma & alpha scans conducted.
VT312	37W	Floor	Pre-smear beta-gamma & alpha scans conducted.
VT313	36W	Floor	Pre-smear beta-gamma & alpha scans conducted.
VT314	31-32E	Window	Entire ledge (2 in. × 48 in.) smeared of the middle low window located between Col. 31E & 32E. A pre-smear beta-gamma scan was conducted.
VT315	33-34E	Window	Window ledge of the south low window located between column 33E & 34E. A beta-gamma & alpha scan was conducted before smearing.
VT316	35-36E	Window	Entire ledge (2 in. × 48 in.) smeared of the middle low window located between Columns 35E & 36E. A pre-smear beta-gamma scan was conducted.
VT317	37-38E	Window	Entire ledge (2 in. × 48 in.) smeared of the middle low window located between Col. 37E & 38E. A pre-smear beta-gamma scan was conducted.
VT318	39-40E	Window	Entire ledge (2 in. × 48 in.) smeared of the middle low window located between Col. 39E & 40E. A pre-smear beta-gamma scan was conducted.
VT319	41-42E	Window	Entire ledge (2 in. × 48 in.) smeared of the middle low window located between Col. 41E & 42E. A pre-smear beta-gamma scan was conducted.
VT320	31W-32W	Window	Center window ledge located between Bay 31W & 32W. A pre-smear beta-gamma & alpha scan was conducted.
VT321	31W-32W	Wall	Top of the concrete block wall between Bay 31W & 32W. A pre-smear beta-gamma & alpha scan was conducted.
VT322	31W-32W	Bridging	Top of bridging (between stringers) and about one halfway toward top of peak between Bay 31W & 32W. A pre-smear beta-gamma & alpha scan was conducted.
VT323	31W	Truss	Top of truss (about one half toward peak) located east of Column 31W. A pre smear beta-gamma & alpha scan was conducted.
VT324	32W-33W	Window	Center window ledge located between Bay 32W & 33W. A pre-smear beta-gamma & alpha scan was conducted.
VT325	32W-33W	Wall	Top of concrete block wall between Bay 32W & 33W. A pre-smear beta-gamma & alpha scan was conducted.
VT326	32W-33W	Bridging	Top of bridging (between stringers) about one half way up and located between Bay 32W & 33W. A pre-smear beta-gamma & alpha scan was conducted.
VT327	32W	Truss	A pre-smear beta-gamma & alpha scan was conducted.

Table 5. (continued)

Sample ID ^a	Room/ structure/ area ^b	Location in bay	Location notes ^c
VT328	33W-34W	Window	Top of center window ledge located between Bay 33W & 34W. A pre-smear beta-gamma & alpha scan was conducted.
VT329	33W-34W	Stringer	Side of stringer (in opening between and above top of block wall and roof decking) located between Bay 33W & 34W. This stringer is visibly dirty. A pre-smear beta-gamma scan was conducted.
VT330	43E	Window	Pre-smear beta-gamma & alpha scans conducted.
VT331	31E	Floor	Pre-smear beta-gamma & alpha scan conducted.
VT332	30E	Floor	Pre-smear beta-gamma & alpha scan conducted.
VT333	29E	Floor	Pre-smear beta-gamma & alpha scan conducted.
VT334	28E	Floor	Pre-smear beta-gamma & alpha scan conducted.
VT335	27E	Floor	Pre-smear beta-gamma & alpha scans conducted.
VT336	26E	Floor	Pre-smear beta-gamma & alpha scans conducted.
VT337	25E	Floor	Pre-smear beta-gamma & alpha scans conducted.
VT338	24E	Floor	Pre-smear beta-gamma & alpha scans conducted.
VT339	23E	Floor	Pre-smear beta-gamma & alpha scans conducted.
VT340	22E	Floor	Pre-smear beta-gamma & alpha scans conducted.
VT341	22W	Floor	Pre-smear beta-gamma & alpha scans conducted.
VT342	22W	Floor	Pre-smear beta-gamma & alpha scans conducted.
VT343	23W	Floor	Pre-smear beta-gamma & alpha scans conducted.
VT344	23W	Floor	Pre-smear beta-gamma & alpha scans conducted.
VT345	24W	Floor	Pre-smear beta-gamma & alpha scans conducted.
VT346	25W	Floor	Pre-smear beta-gamma & alpha scans conducted.
VT347	26W	Floor	Pre-smear beta-gamma & alpha scans conducted.
VT348	27W	Floor	Pre-smear beta-gamma & alpha scans conducted.
VT349	28W	Floor	Pre-smear beta-gamma & alpha scans conducted.
VT350	29W	Floor	Pre-smear beta-gamma & alpha scans conducted.
VT351	30W	Floor	Pre-smear beta-gamma & alpha scans conducted.
VT352	31W	Floor	Pre-smear beta-gamma & alpha scans conducted.
VT353	29-30E	Window	Entire ledge (2 in. × 48 in.) smeared of the low middle window located between Cols. 29E & 30E. Pre-smear beta-gamma scans were conducted.
VT354	27-28E	Window	Entire ledge (2 in. × 48 in.) smeared of the low middle window located between Col. 27E & 28E. Pre-smear beta-gamma & alpha scans were conducted.

Table 5. (continued)

Sample ID ^a	Room/ structure/ area ^b	Location in bay	Location notes ^c
VT355	25-26E	Window	Entire ledge (2 in. × 48 in.) smeared of the low north window located between Col. 25E & 26E. Pre-smear beta-gamma & alpha scans conducted.
VT356	25-24E	Window	Low window ledge between Col. 25E & 24E. Pre-smear beta-gamma & alpha scans conducted.
VT357	MS-1	Floor	Floor smear taken in room MS-1 (furnace room) at 9 ft W and 9 ft S of Col. 25W. Pre-smear beta-gamma & alpha scans were conducted.
VT358	MS-1	Floor	Floor smear taken 7 ft S & 8 ft E of Col. 24W on west wall of Rm. MS-1 (furnace room). Pre-smear beta-gamma & alpha scans were conducted.
VT359	28-29W	Floor	Floor smear taken 5 ft W & 2 ft N of the N edge of the door frame to the men's room which is located west & between Cols. 28W & 29W. Pre-smear beta-gamma & alpha scans were conducted.
VT360	33W-34W	Bridging	Top of bridging (about one half way up to the peak) located between Bay 33W & 34W.
VT361	33W	Truss	Top of truss (about one half way to peak) located east of Col. 33W.
VT362	34W	Truss	Top of lower horizontal member of truss about one half to center from Col. 34W.
VT363	34W-35W	Other	Top of lower cross brace going between trusses 34W & 35W located about 2/3 way from W. wall.
VT364	35W	Truss	Top of truss (about 1/2 way to peak) east of Col. 35W. This is the next section above the old VM340
VT365	35W-36W	Bridging	Top of bridging (about 1/2 way to peak) east from the wall between Bay 35W & 36W.
VT366	36W	Truss	Top of truss (about 1/2 way to peak) east from Col. 36W
VT367	36W-37W	Bridging	Top of bridging (about 1/2 way to peak) between Bay 36W & 37W.
VT368	36W-37W	Stringer	Upper flat side of stringer (between trusses and about 1/2 way to peak) between 36W & 37W.
VT369	37W	Truss	This location is above the old VT068
VT370	37W-38W	Stringer	Top flat side of a stringer which is visibly dirty and about 1/2 way to the peak between Col. 37W & 38W.
VT371	MS-6	Floor	Pre-smear beta-gamma & alpha scans were conducted.
VT372	MS-6	Window	Smear from east side of window ledge in Rm. MS-6 which is located between Col. 25E & 26E. Pre-smear beta-gamma scan was conducted.
VT373	MS-6	Floor	Smear taken inside the room immed. N of the vault and 9 ft S & 8 ft E of Col. 25E. Pre-smear beta-gamma & alpha scans conducted.

Table 5. (continued)

Sample ID ^a	Room/ structure/ area ^b	Location in bay	Location notes ^c
VT374	VAULT	Floor	Pre-smear beta-gamma & alpha scans conducted.
VT375	VAULT	Other	Bottom upper-facing surface (west end, north lip) of the middle "I" Beam in vault. Pre-smear beta-gamma scan conducted.
VT376	MS-6	Other	Bottom upper-facing surface (east end, south lip) of the north "I" Beam in Rm. MS-6. Pre-smear beta-gamma scan conducted.
VT377	31-32E	Wall	Top of plate located between Col. 31E & 32E. Pre-smear beta-gamma scan conducted.
VT378	32-33E	Window	Ledge of the upper middle window located between Col. 32E & 33E. Pre-smear beta-gamma scan conducted.
VT379	32-33E	Wall	Pre-smear beta-gamma & alpha scans conducted.
VT380	33-34E	Wall	Pre-smear beta-gamma scan conducted.
VT381	38W	Truss	Top of truss about 1/2 way to the roof peak E of Column line 38W.
VT382	38-39W	Bridging	Top of bridging about 1/2 to roof peak and east of and between Col. 38W & 39W.
VT383	40-41W	Bridging	Top of bridging about 1/2 way to peak E and between 40W & 41W.
VT384	41W	Truss	Top of truss about 1/2 way to roof peak east of Col. line 41W.
VT385	41W-42W	Bridging	Top of bridging about 1/2 way to peak; E and between 41W & 42W.
VT386	41W-42W	Wall	Top of block wall between Col. 41W & 42W. Sample taken after additional remediation.
VT387	41W-42W	Window	Center window ledge between Col. 41W & 42W.
VT388	42W	Truss	Top of truss about 1/2 way to roof peak; east of Col. 42W.
VT389	42W-43W	Bridging	Top of bridging ~ 1/2 way to roof peak; E & between 42W & 43W.
VT390	42W-43W	Wall	Top of block wall between Col. 42W & 43W.
VT391	42W-43W	Window	Center window ledge between Columns 42W & 43W.
VT392	43W	Window	South window ledge between Col. 43W and NW corner of building.
VT393	44E-44W	Wall	Top of block wall on far north end of building about 2 ft east of the old VM373.
VT395	29W	Other	Location was above a false ceiling with opening access located NW of Col. 29W. The surface of the steam line was visibly clean.
VT396	29W	Other	The location was above a false ceiling; smear taken on the visibly dirty upper horizontal surface of fire sprinkler line located about 17 ft N and about 6 ft W of Col. 29W.
VT397	29W	Other	Above false ceiling and above opening in sheet rock at the old location of VM124; smear taken on a visibly dirty wooden cross brace between ceiling joists located about 60 ft N and 3 ft W of Col. 29W.

Table 5. (continued)

Sample ID ^a	Room/ structure/ area ^b	Location in bay	Location notes ^c
VT398	29W	Bridging	Above false ceiling; smear taken on visibly dirty bridging between ceiling joists located about 80 ft N and about 7 ftW of Col. 29W.
VT399	34-35W	Window	Window ledge (center) between Col. 34W & 35W on wood frame.
VT400	34-35W	Stringer	Vertical board (? stringer) west of the top wood plate at top of block wall between Col. 34W & 35W.
VT401	34-35E	Wall	Pre-smear beta-gamma & alpha scans conducted.
VT402	34-35E	Window ledge	Ledge of the upper middle window located between Col. 34E & 35E. Pre-smear beta-gamma scan conducted.
VT403	35-36E	Wall	Pre-smear beta-gamma & alpha scans conducted.
VT404	36-37E	Wall	Pre-smear beta-gamma & alpha scans conducted.
VT405	36-37E	Window ledge	Upper window ledge between Col. 36E & 37E. Pre-smear beta-gamma scan conducted.
VT406	37-38E	Wall	Pre-smear beta-gamma & alpha scans conducted.
VT407	38-39E	Wall	Pre-smear beta-gamma scan conducted.
VT408	38-39E	Window	Upper south window between Col. 38E & 39E. Pre-smear beta-gamma scan conducted.
VT409	39-40E	Wall	Pre-smear beta-gamma & alpha scans conducted.
VT410	40-41E	Wall	Pre-smear beta-gamma & alpha scans conducted.
VT411	40-41E	Window	Upper middle window between Cols. 40E & 41E. Pre-smear beta-gamma scans conducted.
VT412	41-42E	Wall	Pre-smear beta-gamma & alpha scans conducted.
VT413	42-43E	Wall	Pre-smear beta-gamma & alpha scans conducted.
VT414	42-43E	Window	Upper middle window between Col. 42E & 43E. Pre-smear beta-gamma scan conducted.
VT415	43E	Wall	Top of plate between Col. 43E and the end of the building. Pre-smear beta-gamma scan conducted.
VT416	33-34W	Stringer	Vertical board (? stringer) above the wood plate at top of block wall between Col. 33W & 34W located one ft directly south of VT329.
VT417	35W	Other	Top of heater (suspended from ceiling) located about 13' east of Col. 35W.
VT418	35-36W	Window	Top of center window ledge between Col. 35W & 36W on wood frame.
VT420	36-37W	Window	Top of center window ledge between Col. 36W & 37W on wood frame.
VT421	36-37W	Stringer	Vertical board (? stringer) above wood plate at top of block wall between Col. 36W & 37W.

Table 5. (continued)

Sample ID ^a	Room/ structure/ area ^b	Location in bay	Location notes ^c
VT422	37-38W	Window	Center window concrete ledge between Col. 37W & 38W.
VT423	43W	Truss	Top of truss about 1/3 way to the roof peak from Col. 43W.
VT424	43W	Wall	Truss plate (wood) at top of block wall between Col. 43W & NW corner of building.
VT425	43W	Bridging	Bridging about 1/2 way to the peak from wall between Col. 43W & NW corner of building.
VT426	40-41W	Window	Center window ledge (wood) between Col 40W & 41W.
VT429	37W	Truss	Top of truss about 1/3 way up to peak from wall between Col. 37W & 38W was the entry on the field data sheet. Edited on 1-7-94 for top of truss from Col. 37W. Appears to be near or at the location of VT369.
VT430	37-38W	Stringer	Upper side of stringer about 1/2 way to peak from wall and located between Col. 37W & 38W. This location is about 2 ft N of VT370. Additional remediation was performed on 10-13-93.
VT431	37-38W	Bridging	Bridging ~ 1/2 way to peak from wall between Col. 37W & 38W.
VT432	38-39W	Window	Center window ledge (wood) between Col. 38W & 39W.
VT433	38-39W	Wall	Top of block wall between Col. 38W & 39W. This location is about 1 ft N of old VM326.
VT434	31-32E	Bridging	Bridging about 1/2 to peak between Col. 31E & 32E.
VT435	31E	Truss	Top of lower cross brace of truss about 1/2 way from wall to peak and west of Col. 31E.
VT436	32-33E	Bridging	Bridging about 1/2 way to peak between Col. 32E & 33E.
VT439	33-34E	Bridging	Bridging about 1/2 way to the peak from wall between Col. 33E & 34E.
VT440	34-35E	Bridging	Bridging ~1/2 way to the peak from wall between Col. 34E & 35E.
VT441	34E	Truss	Top of truss about 1/2 way to peak from Col. 34E.
VT442	35E	Truss	Top of truss about 1/2 way to the peak from Col. 35E.
VT443	35-36E	Bridging	Bridging about 1/2 way to the peak from the wall between Col. 35E & 36E. Some dust is visible on the bridge in this location.
VT444	36E	Truss	Top of truss about 1/2 way to the peak from Col. 36E.
VT445	36-37E	Bridging	Bridging about 1/2 way to peak from wall between Col. 36E & 37E.
VT446	37E	Truss	Top of truss about 1/2 way to the peak from Col. 37E.
VT447	37-38E	Bridging	Bridging ~1/2 way to the peak from wall between Col. 37E & 38E.
VT448	38E	Truss	Top of lower horizontal truss brace ~1/2 way to the peak from Col. 38E.

Table 5. (continued)

Sample ID ^a	Room/ structure/ area ^b	Location in bay	Location notes ^c
VT449	38-39E	Stringer	Upper surface of the stringer about 1/2 way to peak from the wall between Col. 38E & 39E.
VT450	38-39E	Bridging	Bridging ~1/2 way to peak from the wall between Col. 38E & 39E.
VT451	30-31E	Wall	Pre-smear beta-gamma & alpha scans conducted.
VT452	30-31E	Window	Pre-smear beta-gamma scan conducted.
VT453	29-30E	Wall	Pre-smear beta-gamma & alpha scans conducted.
VT454	28-29E	Wall	Pre-smear beta-gamma scan conducted.
VT456	27-28E	Wall	Pre-smear beta-gamma & alpha scans conducted.
VT457	26-27E	Wall	Pre-smear beta-gamma & alpha scans conducted.
VT460	25-26E	Wall	Pre-smear beta-gamma & alpha scans conducted.
VT461	21-22E	Wall	This location is visibly dirty. Pre-smear beta-gamma scan conducted.
VT462	21-22E	Other	Top of lower header which is about 3 in. wide (this location was selected as the upper window ledges between Col. 21E & 24E are too narrow to smear) between Col. 21E & 22E. Pre-smear beta-gamma scan conducted.
VT463	22-23E	Other	Top of lower header which is about 3 in. wide (this location was selected as the upper window ledges between Col. 21E & 24E are too narrow to smear) between Col. 22E & 23E. Pre-smear beta-gamma scan conducted.
VT464	22-23E	Wall	Top of plate which is visibly dirty located between Col. 22E & 23E. Pre-smear beta-gamma scan conducted.
VT465	23-24E	Wall	A beta-gamma & alpha scan was done directly on the smear sample.
VT467	MS-1	Wall	Top of the wall in MS-1 (furnace room) about 11 ft & 9 in. off the floor on the S side. Beta-gamma & alpha scans were done directly on the smear.
VT468	23-24W	Other	Top of the lower header between Col. 23W & 24W. Beta-gamma & alpha scans were conducted directly on the smear.
VT469	23-24W	Wall	Top of a visibly very dirty plate between Col. 23W & 24W. Beta-gamma and alpha scans were conducted directly on the smear.
VT470	23W	Truss	Beta-gamma & alpha scans conducted directly on the smear.
VT471	28-29W	Window	Upper center window between Col. 28W & 29W. Beta-gamma & alpha scans conducted directly on the smear.
VT472	28-29W	Wall	Beta-gamma & alpha scans conducted directly on the smear.
VT473	27-28W	Window	Upper center window ledge between Col. 27W & 28W. Beta-gamma & alpha scans conducted directly on the smear.
VT474	27-28W	Wall	Beta-gamma & alpha scans conducted directly on the smear.

Table 5. (continued)

Sample ID ^a	Room/ structure/ area ^b	Location in bay	Location notes ^c
VT475	26-27W	Window	Upper center window ledge between Col. 26W & 27W. Beta-gamma & alpha scans conducted directly on the smear.
VT476	26-27W	Wall	Beta-gamma & alpha scans conducted directly on the smear.
VT477	29-30W	Window	Upper south window ledge between Col. 29W & 30W. Beta-gamma and alpha scans conducted directly on the smear.
VT478	29-30W	Wall	Beta-gamma & alpha scans conducted directly on the smear.
VT479	30-31W	Window	Upper middle window ledge between Col. 30W & 31W. Beta-gamma & alpha scans conducted directly on the smear.
VT481	39-40W	Wall	Top of concrete block wall between Col. 39W & 40W.
VT486	41E	Truss	Top of lower horizontal truss member about 1/2 way to the peak from Col. 41E.
VT490	42-43E	Stringer	Upper surface of stringer about 1/2 way to peak from wall between Col. 42E & 43E.
VT491	42-43E	Bridging	Bridging about 1/2 way to peak from wall between Col. 42E & 43E.
VT492	NE bldg.	Wall	Top of wood plate (above block wall) about 16 ft W of the NE corner of the building.
VT493	43E	Bridging	Bridging about 1/2 way to the peak from wall between Col. 43E & NE corner of the building.
VT494	43E	Truss	Top of truss ~1 ft east of the roof peak on Column line 43E-W.
VT495	39E	Truss	Top of truss about 1/2 way to peak from Col. 39E.
VT496	39-40E	Bridging	Bridging about 1/2 way to peak from wall between Col 39E & 40E.
VT497	39-40W	Bridging	Bridging ~1/3 way to peak from wall between Col 39W & 40W.
VT498	39W	Truss	Top of truss about 1/2 way to peak from Col. 39W
VT499	39-40W	Stringer	Upper vertical surface on stringer about 1/3 way to peak from wall between Cols. 39W & 40W.
VT500	30-31E	Bridging	Pre-smear alpha and beta-gamma scans conducted.
VT501	30-31W	Wall	Beta-gamma & alpha scans conducted directly on the smear.
VT515	21W-22W	Wall	Pre-smear beta-gamma scan conducted.
VT517	29-30E	Bridging	Bridging about 1/2 way to peak from wall between Col. 29E & 30E.
VT520	31W	Truss	Top of truss about 1/2 way to peak from Col. 31W.
VT521	30-31W	Bridging	Bridging ~1/2 way to peak from wall between Col. 30W & 31W.
VT526	39W	Truss	Top of truss about 2 ft away from peak at Col. 39W. This sample was taken after additional cleaning.
VT527	22-23E	Bridging	This location is the metal shop south wall. "None detectable" on the beta-gamma& alpha pre-smear scans.

Table 5. (continued)

Sample ID ^a	Room/ structure/ area ^b	Location in bay	Location notes ^c
VT528	22E	Truss	"None detectable" on the pre-smear beta-gamma & alpha scans.
VT529	22-23E	Stringer	This location is the metal shop south wall. The upper vertical surface of the stringer was smeared. "None detectable" on the pre-smear beta-gamma & alpha scans.
VT530	22-23E	Bridging	"None detectable" on the beta-gamma & alpha pre-smear scans.
VT535	28-29E	Stringer	This location is inside the ceiling ventilation shaft.
VT541	26W	Truss	Pre-smear alpha and beta-gamma scans were conducted.
VT542	25-26W	Bridging	Pre-smear alpha and beta-gamma scans were conducted.
VT543	25-26E	Bridging	Pre-smear alpha and beta-gamma scans were conducted.
VT544	25E	Truss	Pre-smear alpha & beta-gamma scans conducted.
VT545	24-25E	Bridging	Pre-smear alpha and beta-gamma scans conducted.
VT546	25W	Truss	Pre-smear alpha and beta-gamma scans conducted.
VT547	24-25W	Bridging	Pre-smear alpha and beta-gamma scans conducted.
VT548	24E	Wall	Pre-smear alpha and beta-gamma scans conducted.
VT549	24W	Truss	Top of truss at roofline step-down between metal shop and carpenter end and about 4 ft from peak to Col. line 24W. Pre-smear alpha and beta-gamma scans conducted.
VT551	23-24E	Bridging	Pre-smear alpha and beta-gamma scans conducted.
VT552	23W	Truss	Pre-smear alpha and beta-gamma scans conducted.
VT553	22-23W	Bridging	Pre-smear alpha and beta-gamma scans conducted.
VT554	22W	Truss	Pre-smear alpha and beta-gamma scans conducted.
VT555	21-22W	Bridging	The location is on the metal-shop side of block wall. Pre-smear alpha and beta-gamma scans conducted.
VT556	31W	Floor	Crane rail track located on the floor about 7 ft E & 4 ft N of Col. 31W. This sample was taken at the old location of VM443 after cleaning.
VT557	42W	Floor	Crane rail track on the floor 7 ft directly east of Col. 42W. This sample was taken after extensive additional cleaning.
VT559	38W	Floor	This location is the same as old VM445 and sample VT559 was taken after extensive additional cleaning.
VT560	27E	Floor	Sample was taken after extensive additional cleaning.
VT561	22W	Other	Upper horizontal surface of original (?) electrical fuse box located 8 ft above floor level and 33 ft directly S of Col. 22W. This item and area are above the false ceiling.
VT565	15W	Other	Upper horizontal surface of original (?) electrical fuse box located 5 ft above floor level and 1 ft N of Col. 15W.

Table 5. (continued)

Sample ID ^a	Room/ structure/ area ^b	Location in bay	Location notes ^c
VT574	18-19E	Bridging	Between stringers 8 & 9
VT575	18-19E	Truss	Between stringers 14 & 15
VT577	17-18E	Bridging	Between stringers 8 & 9
VT580	16-17E	Bridging	Between stringers 8 & 9
VT582	8-9W	Wall	Bay ID:Pie-shaped area between columns at S. end of Bldg. S of 8-9W.
VT583	8-9W	Wall	This location is the same as top of block wall.
VT586	8W	Truss	This location is the pie-shaped section at south end of Bldg. south of 8-9W.
VT587	9-10W	Truss	This location is the same as the top of block wall.
VT590	10-11W	Truss	This location is the same as top of the block wall.
VT597	8E	Wall	Top of block wall (wood plate), W of Col. 8E (SE corner) , about 2\3 way toward truss center & about 4 ft W of old VM370.
VT654	7S	Truss	Support beam functions like top of block wall structure where building turns west at south end of this location.
VT655	7S	Stringer	No bridging is present on S side of this triangular bay.
VT729	1N	Wall	This location is near Col. 1N.
VT732	1N	Wall	This location is near Col. 1N.
VT782	41-42W	Bridging	This sample from the bridging was taken (before additional recleaning) in the room north of the refrigeration room and 10 ft W & 10 ft S of Col. 42.
VT788	MS-1	Bridging	This location is above the roof trusses.
VT790	26-27W	Drain	VT789 was taken at this location for rad analysis.
VT797	38W	Floor	Location is 9.5 ft W and 10 ft N of Col. 38W.
VT799	26-27E	Stringer	This sample taken one ft N of old VT458 after additional cleaning had been conducted. This stringer is directly over the east wall.
VT801	20-21E	Wall	This sample was taken directly N of old VT567 after additional cleaning.
VT823	27W	Wall	Boiler room sand box wall 15 ft due N of Col. 27W. The location is 7 ft and 3 in. above the high bay floor level and 1 ft below the original sand level. This is the same wall as VM456.
VT825	27W	Wall	Wall location is 15 ft due N of Col 27W; 11 ft & 3 in. above the bay floor level; and about 3 ft above the original sand level.
VT827	27W	Wall	Boiler room sand box north wall at 18 ft & 6 in. N and 10 ft W of Col. 27W. The location is 7 ft and 3 in. above the bay floor level and about 1 ft below the original sand level.

Table 5. (continued)

Sample ID ^a	Room/ structure/ area ^b	Location in bay	Location notes ^c
VT829	27W	Wall	Boiler room sand box north wall at 18 ft & 6 in. N and 10 ft W of Col. 27W. This location is 11 ft & 3 in. above the bay floor level and about 3 ft above the original sand level.
VT830	27W	Wall	Boiler room sand box west wall at 10 ft & 6 in. N and 19 ft & 1 in. W of Col. 27W. This location is 7 ft & 3 in. above bay floor level and about 1 ft below the original sand level.
VT831	27W	Wall	This location is 10 ft & 3 in. above the bay floor level and about 2 ft above the original sand level.
VT863	2S	Drain	This location is a 4-in. diameter cast iron drain running in a NW-SE direction. The beta-gamma scan inside the pipe was N.D. above background. This sample is a resmear of VT840 in the wood shop area.
VT864	2N	Drain	This 2-in. diameter cast iron drain pipe was scanned for beta-gamma (24 cpm above BG = 57 cpm = 0.03 mrad/h) at the opening and smeared for Be to a vertical depth of 6 in. This sample is a resmear of VT842 in the wood shop area.
VT865	Drain 57	Drain	This 3-in. diameter cast iron Drain 57 pipe was scanned for beta-gamma (N.D. above BG) inside pipe and smeared for Be to a vertical depth of 8 in. This sample supplements VM481 taken in the wood shop area.
VT866	Drain 56	Drain	This 2-in. diameter cast iron Drain 56 pipe was scanned for beta-gamma (N.D. above BG) at the opening and smeared for Be to a vertical depth of 12 in. This sample is a resmear of VT846 & VT848 in the wood shop area. VT 986 was recheck.
VT867	Drain 55	Drain	This 3 in. diameter cast iron Drain 55 pipe was scanned for beta-gamma (N.D. above BG) at the Drain opening and smeared for Be to a vertical depth of 8 in. This sample is a resmear of VT850 in the wood shop area.
VT868	Drain 54	Drain	This 3 in. diameter cast iron Drain 54 pipe was scanned for beta-gamma (N.D. above BG) at the Drain opening and smeared for Be to a vertical depth of 8 in. This sample is a resmear of VT852 in the wood shop area.
VT870	27E	Drain	This 4-in. diam. cast clay pipe was scanned for beta-gamma (N.D. above BG) at the Drain opening and inside the pipe and was smeared for Be to a vertical depth of 6 in. This sample is a resmear of VT861 in the metal shop area.
VT871	27E	Drain	This 4 in. diameter cast clay Drain pipe was scanned for beta-gamma (N.D. above BG) at the Drain opening and in the pipe and smeared for Be to a vertical depth of 3 in. (there was a solid obstruction in the pipe at 3 in. depth.)
VT872	28E	Truss	Beta-gamma scan N.D. above background (37 cpm = 0.02 mrad/h).
VT873	28E	Truss	Beta-gamma scan N.D. above BG (37 cpm = 0.02 mrad/h).

Table 5. (continued)

Sample ID ^a	Room/ structure/ area ^b	Location in bay	Location notes ^c
VT874	25-26W	Bridging	Beta-gamma scan N.D. above BG (37 cpm = 0.02 mrad/h)
VT875	24-25W	Window	Beta-gamma scan N.D. above BG (37 cpm = 0.02 mrad/h).
VT876	24-25E	Wall	Beta-gamma scan N.D. above BG (37 cpm = 0.02 mrad/h).
VT877	23-24W	Bridging	Beta-gamma scan was N.D. above BG (37 cpm = 0.02 mrad/h). VT888 was also taken from this bay.
VT878	23-24E	Other	Beta-gamma scan N.D. above BG (37 cpm = 0.02 mrad/h). VT466 was also taken in this bay.
VT881	26W	Drain	This 4 in. cast iron Drain line runs N to S with the opening being about 4 ft below floor level. Logged for radon 12-11-93. The beta-gamma scan was N.D. above BG (37 cpm = 0.02 mrad/h). Sample VT882 was taken at this same location for rad analysis as was VM5
VT885	22W	Floor	Old floor (? original) in west closet area underneath raised floor in NE corner of closet at old H. P. office which is W of Col. 22W. The beta gamma scan range for the entire closet floor = 55-85 cpm (= 0.03-0.04 mrad/h). VT886 was taken very near this area for rad analysis
VT887	22W	Wall	Smear taken from the first block face from the floor of the old H.P. office (west of Col. 22W) north wall about 7 ft from the NE corner. VT888 was taken very near this location for rad analysis.
VT889	22W	Floor	Location is about 6 in. W and 6 in. S of corner joints. VT890 was sampled very near this area for rad analysis.
VT891	22W	Other	The old health physics office is west of Col. 22W. Pipe is 1.5 in. diameter and is running north/south. The beta-gamma scan was N.D. above BG (40 cpm = 0.02 mrad/h) at this location.
VT892	24W	Drain	Smear taken to a 6 in. vertical depth from a 4 in. diameter clay pipe (one of two pipes leading to pit) entering a pit. This pipe is 54 in. deep to the elbow, turning SE 7.5 ft S and 3 ft E of Col. 24W on the outside wall of MS-1. The beta-gamma scan was N.D. above background.
VT894	24W	Drain	Smear (to a vertical depth of 6 in.) of a 4 in. diameter clay drain pipe (one of 2 pipes entering the pit) to a pit at 7.5 ft S and 3 ft E of Col. 24W. This drain is 30 in. deep to the elbow, turns SE, and is located at the outside wall of MS-1. Smear taken to a depth of 6-9 in.
VT896	24W	Drain	Small (1.5 in. diameter) black iron (possibly galvanized) drain pipe smeared to a vertical depth of 10 inches. This pipe is 10 in. deep to the elbow; turns due E; connects to the galvanized floor Drain of location VT897; and is located 2 ft N & 2.25 ft E of Col. 24W (extreme W wall).

Table 5. (continued)

Sample ID ^a	Room/ structure/ area ^b	Location in bay	Location notes ^c
VT900	26W	Drain	3-in. diameter clay-ceramic drain pipe which is 57 in. deep with liquid in "T" at 57 in. depth. Ref. KAPL 38 rad scan to 3 ft depth. See sample VT901 for the rad sample taken at this location at 8-11 in. depth.
VT902	28W	Drain	4-in. diameter clay-ceramic drain pipe 17 in. deep to elbow turning south. Ref. KAPL 43 rad scan to depth of 17 in. See VT903 for the rad sample taken at the 6-9 in. depth of this location.
VT904	29W	Drain	4 in. diameter black iron pipe 41 in. deep to elbow turning south. Rad scan taken to a depth of 41 in. See sample VT905 for the rad smear taken taken at the 6-9 in. depth of this location.
VT906	30W	Drain	2.5 in. diameter cast iron pipe connecting to "T" at 14 in. depth east to west. Ref. KAPL 45 for rad scan to a depth of 14 in. Connects to VM508 & VT884 in west direction. Sample VT907 taken at this location (10-12 in. depth) for rad analysis.
VT908	31W	Drain	4 in. diameter cast iron drain pipe 32 in. deep to elbow turning south. Ref. KAPL 59. Sample VT909 taken at this location at 6-9 inch depth for rad analysis.
VT911	37W	Drain	This sample is a supplement to VM499. See VT912 for the rad sample at this location.
VT913	2N	Other	Beta-gamma scan was N.D. above BG (51 cpm = 0.03 mrad/h).
VT914	2N	Window	Beta-gamma scan was N.D. above BG (51 cpm = 0.03 mrad/h).
VT915	3N	Other	Beta-gamma scan was N.D. above BG (51 cpm = 0.03 mrad/h).
VT916	2N	Floor	VT917 is the rad analysis sample taken in this area (1 ft east). The beta-gamma scan was N.D. above BG (44 cpm = 0.02 mrad/h).
VT918	3N	Floor	VT919 is the rad analysis sample taken in this area (one ft east). The beta-gamma scan was N.D. above BG (44 cpm = 0.02 mrad/h).
VT920	3N	Floor	VT921 is the sample taken for rad analysis near this location (1 ft west). The beta-gamma scan was N.D. above BG (44 cpm = 0.02 mrad/h).
VT922	4N	Floor	VT923 was the sample taken for rad analysis in this area (1 ft east). The beta-gamma scan was N.D. above BG (44 cpm = 0.02 mrad/h).
VT924	5N	Floor	T932 is the sample taken for rad analysis in this area (1 ft north). The beta-gamma scan was N.D. above BG (44 cpm = 0.02 mrad/h).
VT925	3N	Window	Beta-gamma scan was N.D. above BG (51 cpm = 0.03 mrad/h).
VT926	4N	Other	This location is just below the roof decking where the ceiling vent had been removed. The beta-gamma scan was N.D. above BG (51 cpm = 0.03 mrad/h).
VT927	4N	Wall	This location is 6 ft above the floor level. The beta-gamma scan was N.D. above BG (51 cpm = 0.03 mrad/h).

Table 5. (continued)

Sample ID ^a	Room/ structure/ area ^b	Location in bay	Location notes ^c
VT928	5N	Other	The beta-gamma scan was N.D. above BG (51 cpm = 0.03 mrad/h).
VT929	5N	Window	Beta-gamma scan was N.D. above BG (51 cpm = 0.03 mrad/h).
VT930	6N	Other	This location is equal to top of lower truss member; Beta-gamma scan was N.D. above BG (51 cpm = 0.03 mrad/h).
VT931	6N	Other	This location is just below the ceiling. The beta-gamma scan is N.D. above BG (51 cpm = 0.03 mrad/h).
VT933	6N	Floor	VT934 was the sample taken for rad analysis near this location (one ft north). The beta-gamma scan was N.D. above BG (44 cpm = 0.02 mrad/h).
VT935	7N	Floor	VT936 was the sample taken for rad analysis near this location (one ft east). The beta-gamma scan was N.D. above BG (44 cpm = 0.02 mrad/h).
VT937	7N	Floor	The beta-gamma scan was N.D. above BG (46 cpm = 0.02 mrad/h). VT938 is the sample for rad analysis taken very near this location.
VT939	7N	Floor	This carpet area was under brooms, shovels, etc. and 4 ft north of VT937. The beta-gamma scan was N.D. above BG (46 cpm = 0.02 mrad/h).
VT941	7N	Other	This location is just below the ceiling. The beta-gamma scan is N.D. above BG (51 cpm = 0.03 mrad/h).
VT942	7N	Other	This location is just below the original ceiling. The beta-gamma scan was N.D. above BG (51 cpm = 0.03 mrad/h).
VT943	13W	Other	This location is just below the original ceiling, but above the false ceiling. The beta-gamma scan was N.D. above BG (51 cpm = 0.03 mrad/h).
VT944	13W	Other	This location is just below the original ceiling. The beta-gamma scan is N.D. above BG (51 cpm = 0.03 mrad/h).
VT945	13W	Floor	This location is near VT940 (rad analysis) and the beta-gamma scan was N.D. above BG (46 cpm = 0.02 mrad/h).
VT946	13W	Floor	This location is very near VT947 (rad analysis) and the beta-gamma scan was N.D. above BG (46 cpm = 0.02 mrad/h).
VT953	Stack	Wall	This location is directly above VM519.
VT955	Stack	Wall	This location is south of VM520 at the same distance from the floor level. The beta-gamma background was 72 cpm (0.04 mrad/h) with the probe facing up.
VT956	Stack	Wall	VT957 was the sample taken for rad analysis near (directly east) this location.
VT959	Drain 49	Drain	The beta-gamma was N.D. above background and sample VT958 was taken at 0 to 2 in. depth for rad analysis.

Table 5. (continued)

Sample ID ^a	Room/ structure/ area ^b	Location in bay	Location notes ^c
VT960	Drain 50	Drain	This 5 in. diameter drain (inside a 1.5 ft × 1.5 ft pit) was cleaned by KAPL before smear collection. Sample VT961 was taken at 0 to 2.5 in. depth of this location for rad analysis.
VT962	27W	Wall	The beta-gamma background in the coal room was 40 cpm 0.02 mrad/h). Sample VT963 was taken just north of VT962 for the rad analysis sample.
VT964	27W	Bridging	The beta-gamma scan was N.D. above background at this location.
VT965	27W	Other	The beta-gamma scan was N.D. above background at this location.
VT966	27W	Bridging	Beta-gamma scan was N.D. above the background at this location.
VT967	27W	Stringer	Beta-gamma scan was N.D. above background at this location.
VT968	27W	Other	The beta-gamma scan was N.D. above background at this location.
VT969	27W	Bridging	The beta-gamma scan was N.D. above background at this location.
VT970	27W	Wall	The beta-gamma scan was N.D. above background at this location.
VT971	27W	Wall	This location is 4.5 ft above the boiler room floor level. The beta-gamma scan was N.D. above background at this location and VT972 was taken as the rad sample directly south of VY971.
VT973	27W	Wall	This location is 10 ft above the boiler room floor level. The beta-gamma scan was N.D. above background at this location.
VT974	27W	Wall	This location is 8 ft above the boiler room floor level. The beta-gamma scan was N.D. above background at this location.
VT975	27W	Floor	Beta-gamma scan was N.D. above background
VT976	27W	Floor	The beta-gamma scan was N.D. above background.
VT984	25W	Drain	This is a repeat smear of sample VT898 (12-12-93).
VT985	25E	Drain	This sample is a resmear of VT869 (12-11-93).
VT986	5N	Drain	This sample is a resmear of VT866 (12-11-93).
VT987	26W	Wall	This boiler room overhead location was N.D. above background on the beta-gamma scan.
VT988	27W	Other	The beta-gamma scan was N.D. above background.
VT989	27W	Bridging	The beta-gamma scan was N.D. above background.
VT990	27W	Other	This was an overhead location in the boiler room. The beta-gamma scan was N.D. above background.
VT991	26W	Other	The beta-gamma scan was N.D. above background.
VT992	26W	Bridging	The beta-gamma scan was N.D. above background.
VT993	27W	Floor	The beta-gamma scan was N.D. above background. Sample VT994 was taken nearby (just NW of VT993) for rad analysis.
VT995	27W	Floor	The beta-gamma scan was N.D. above background.

Table 5. (continued)

Sample ID ^a	Room/structure/area ^b	Location in bay	Location notes ^c
VT996	26W	Floor	The beta-gamma scan was N.D. above background.
VT997	26W	Floor	The beta-gamma scan was N.D. above background.
VT998	26W	Floor	This location is between the boiler pits and "same height as above mentioned floor area". The beta-gamma scan was N.D. above background.
VT999	26W	Floor	The beta-gamma scan was N.D. above background. Sample VT1000 was taken nearby (just south of VT999) for rad analysis.
VT1001	26W	Window	The beta-gamma scan was N.D. above background.
VT1002	27W	Other	This boiler room location had a beta-gamma scan of N.D. above background.
VT1003	25W	Drain	The beta-gamma scan was N.D. above background (44 cpm = 0.02 mrad/h) at this location.
VT1004	30W	Wall	This north tenant office space location is about 4 ft above floor level with the beta-gamma scan being N.D. above background (44 cpm = 0.02 mrad/h).
VT1005	32W	Wall	This location is about 8 ft above floor level and above the false ceiling in the north tenant office space. The beta-gamma scan was N.D. above background (44 cpm = 0.02 mrad/h).

^a Samples designated "VM" are dust/debris or insulation; "VT" samples are smears. Locations are shown on Figs. 3 through 7. Not all numbers in the sample numbering system were used. This document and the document relating the details of the supplementary characterization survey [ORNL-6623 (Supplement)] considered together, contain all the data collected to assess the condition of the site.

^bBeams are numbered; N, S, E, W., C designate north, south, east, west, and center; MS = metal shop; WS = wood shop.

^cN.D. = none detectable; BG = background. Counts per minute (cpm) were converted to beta-gamma dose rates given in mrad/h.

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