

3006-0604190007



CH2MHILL

CH2M HILL
Mound, Inc.
1 Mound Road
P.O. Box 3030
Miamisburg, OH
45343-3030

SMO-054/05
April 25, 2005

Ms. Margaret L. Marks, Director
Miamisburg Closure Project
U. S. Department of Energy
1075 Mound Road
Miamisburg, OH 45342

ATTENTION: Paul Lucas

SUBJECT: Contract No. DE-AC24-03OH20152
Contract Clause C.2.1.1
Contract Deliverable #36
VARIOUS DOCUMENTS

Dear Ms. Marks:

Attached are the following Final, Revision 1 documents:

- Buildings 40 and 99, Closeout Report, Final, Rev. 1
- Building 47, Closeout Report, Final, Rev. 1
- Buildings G-GW-W, Closeout Report, Final, Rev. 1

If you or members of your staff have any questions regarding the document, or if additional support is needed, please contact Dave Rakel at 937-865-4203.

Sincerely,


John Lehew
Site Manager

JL/ms

Enclosures

cc: T. Fischer, USEPA, (1) w/attachments
B. Nickel, OEPA, (1) w/attachments
R. Vandegriff, ODH, (1) w/attachments
M. Wojciechowski, Tetra Tech, (1) w/attach
F. Schmaltz, DOE/MCP, (1) w/attachments
L. Rawls, MCP, w/o attachments
R. Tormey, DOE/OH, (1) w/attachments
G. Desai, DOE/HQ, (1) w/attachments
CERCLA Documents, CH2M Hill, (1) w/attachs
C. Watson, CH2M Hill, (1) w/attachs
F. Bullock, MMCIC (2) w/attachments
Public Reading Room (4) w/attachments

ER Records, CH2M Hill, (1) w/attachs
DCC (1) w/attachments
Admin Record (2) w/attachments
J. Lehew, CH2M Hill, w/o attachments
D. Rakel, CH2M Hill, w/o attachments
V. Darnell, CH2M Hill, w/o attachments
B. Wier, CH2M Hill, w/o attachments
W. Webb, w/o attachments
M. McDougal, CH2M Hill, w/o attachments
MOAT Coordinator, w/o attachments
file

3006-0604/90007



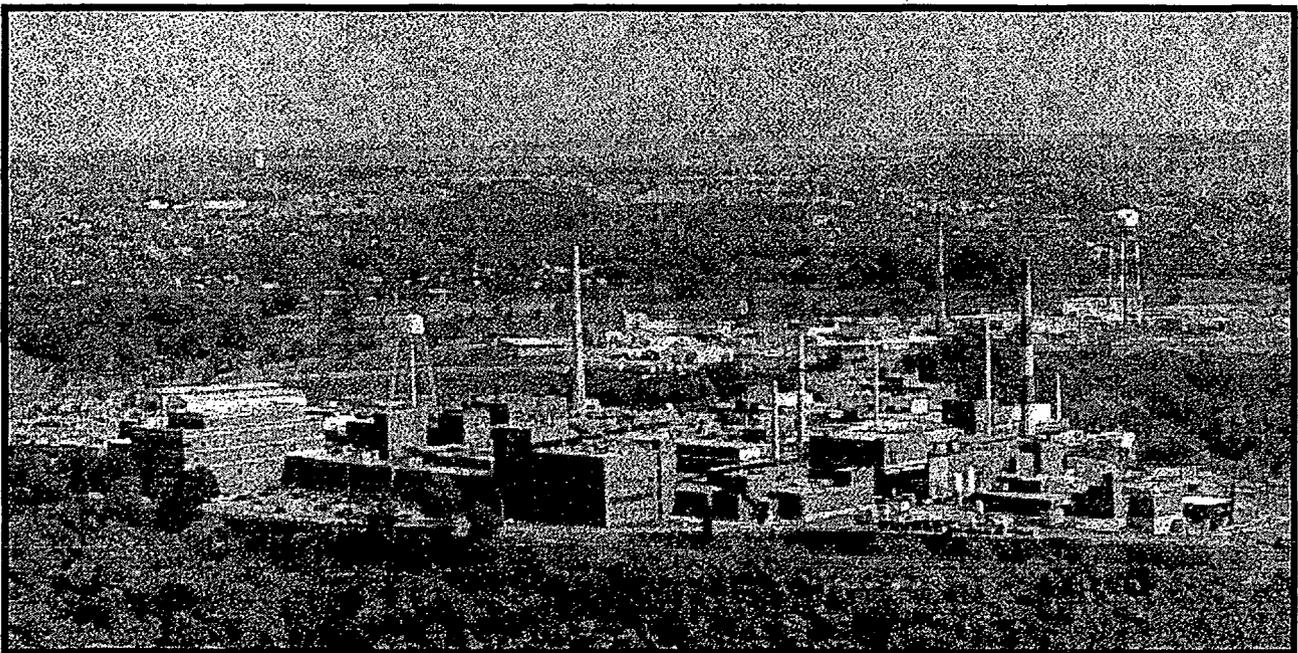
**Environmental
Restoration
Program**



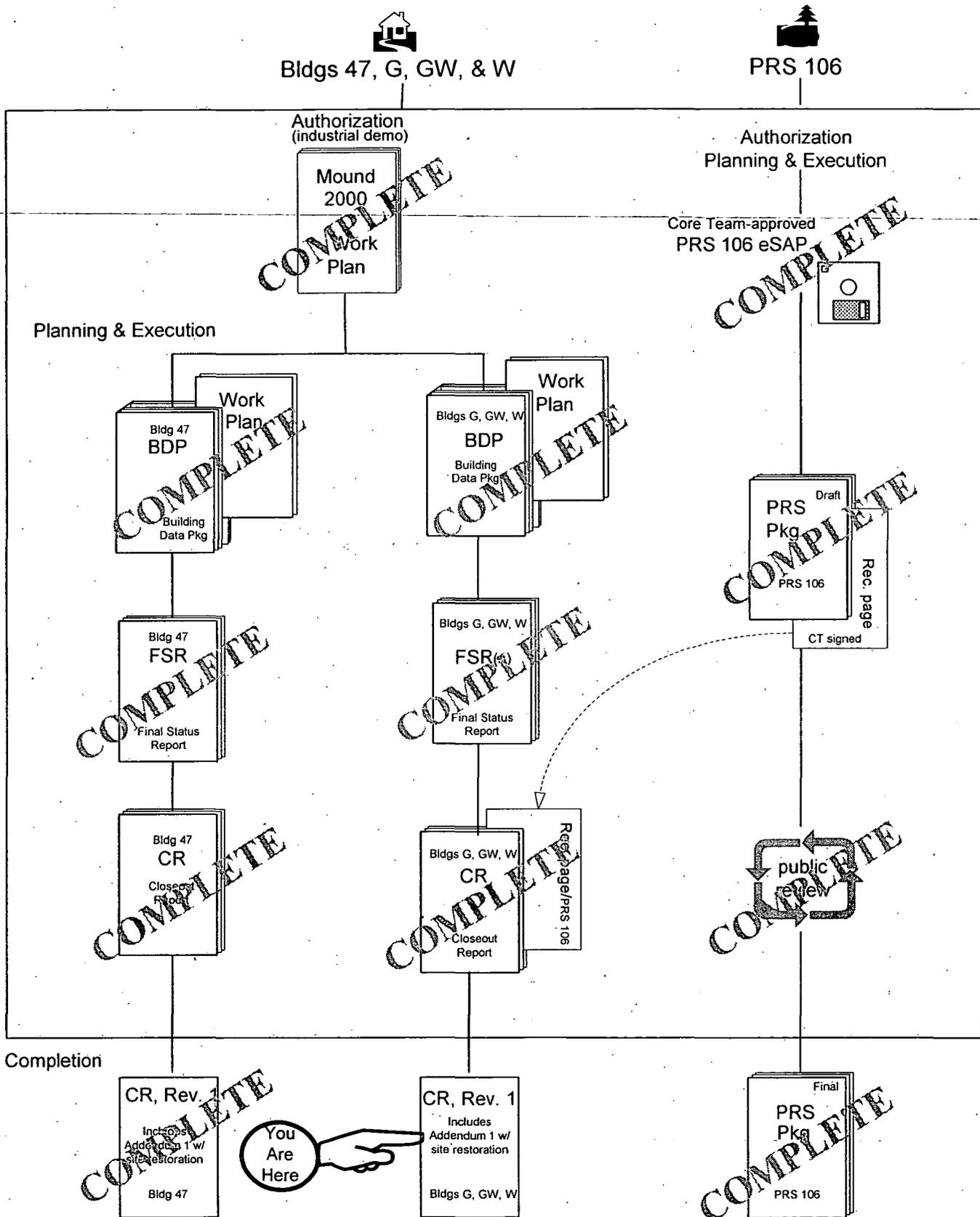
Miamisburg Closure Project CLOSEOUT REPORT

Buildings G, GW, W (Demolition)

Final, Rev. 1
April 2005



Bldgs 47, G, GW, & W + PRS 106



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**Revision 1 of this Closeout Report includes the
Buildings 40, 47, 99, G, GW, and W
Closeout Report Addendum 1 in Appendix D.**

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Appendix C Core Team Recommendation for PRS 106, G Building Soil

Appendix D Buildings 40, 47, 99, G, GW, and W Closeout Report Addendum 1

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1.0 PURPOSE

This is the final report documenting completion of the demolition of Buildings G, GW, W located at the DOE Miamisburg Closure Project (MCP) Site, as shown in the figures provided in Appendix A. The building demolitions, including their slabs and footers, were accomplished per the Work Package for Buildings G, GW, W Demolition #SMPP/TFV-35691, a copy of which was included in Appendix O of the Building Data Package (BDP) for Buildings G, GW, W. The scope of work relating to this building is considered complete. Final site restoration will be completed after staged concrete debris has been removed.

2.0 BACKGROUND

2.1 Buildings G, GW, W

G Building

G Building was a one-story steel frame building with brick and masonry block walls and a pre-cast cement tile roof deck. The building had 7,513 square feet of floor space and contained facilities for servicing and repairing motor vehicles. For a brief period during 1955, G Building was used for the temporary storage of thorium ore source material (in drums), which was later used in a thorium process in SW Building. Health physics reports published at the time indicate that the floors of G Building were scrubbed and decontaminated, and post cleanup monitoring indicated that the garage floor was clean. No thorium processing or thorium processing-related activities occurred in G Building.

GW Building

GW Building was a two-story structure constructed of rebar reinforced concrete block covered with brick veneer. In 1980, a second floor was built in the area of the north half of the building (original high bay); this addition brought the total floor area to 9,782 square feet. Constructed with a large high-bay area, the original function of GW Building was that of a warehouse. GW Building was used for receiving inspection and bonded storage of materials, including a small amount of chemicals used in weapons programs. The Records Management Group consolidated their offices in the building and GW Building was then used for long-term records storage including a refrigerated storage area for the massive collection of employee medical related x-rays. No research, development, or production activities using radioactive materials occurred in the building.

W Building

W Building was a single-story steel frame building with brick masonry and concrete block walls, a pre-cast cement tile roof, and a reinforced concrete floor. A separate area enclosed by masonry walls with an acid-proof brick floor for the storage of acids was also included in the building. The front (north) dock of W Building was originally open-sided and covered with a canopy, but later pre-cast concrete wall panels enclosed all but three openings across the front and sides of the original open dock area. Modifications to the building since initial construction, including a second-story office addition, brought the total floor space to 32,484 square feet. W Building was constructed to provide a building for the

general storage of plant supplies and for the storage of maintenance materials. For a brief period during 1955, W Building was used for the temporary storage of thorium ore source material, which was later used in a thorium process in SW Building. Health physics reports published at the time indicate that the floors of W Building were scrubbed and decontaminated. Post cleanup monitoring indicated that the warehouse floor was clean. W Building was used only to temporarily store and manage the drums of thorium ore source material. No thorium processing or thorium processing-related activities occurred in W Building.

From the late 1950s through 1967, the southeastern corner of W Building was used as a plastic production shop, to produce plastic molded headers in support of the site's detonator manufacturing mission. During the 1980s, W Building was transitioned into office space and into an area for the site's craft-related employees to work and to store their equipment and supplies. There was also a tool crib located in W Building.

2.2 Potential Release Sites (PRSs)

As a result of the investigations and documentation accomplished to comply with the CERCLA cleanup process via the Federal Facilities Agreement (FFA)/DOE Environmental Restoration (ER) Program, DOE and site contractor tabulated all the PRSs identified under the various regulatory programs in effect at the site. Eight PRSs are located at or near Buildings G, GW, W (Table 1), five of which are associated with G Building. The PRS locations are shown on Figure 2, and recommendation sheets (except for PRS 106) are provided in Appendix N of the BDP. All eight PRSs have been binned No Further Assessment (NFA).

Table 1 - PRSs in Proximity to G-GW-W Buildings

PRS	CERCLA or Bldg. Related	Binning Status	Comments
106*	CERCLA	NFA	G Building Soils (AKA Garage Area)
107	CERCLA	NFA	G Building Gasoline Tank (Tank 202)
108	CERCLA	NFA	G Building Gasoline Tank (Tank 203)
109	CERCLA	NFA	G Building Gasoline Tank (Tank 204)
113	CERCLA	NFA	Powerhouse Soils
126	CERCLA	NFA	Building 28 Solvent Storage Area
242	CERCLA	NFA	VOC Potential Hot Spot Location 1016
332	CERCLA	NFA	G Building Waste Oil Tank (Tank 262)

**After the G Building slab was removed, the soil below it (PRS 106) was sampled. The sampling data was presented to the Core Team in the PRS 106 PRS Package. The Core Team binned PRS 106 NFA; their recommendation is included in Appendix C herein.*

3.0 ACTIONS TAKEN

The Buildings G, GW, W BDP was submitted for simultaneous Core Team and public review on 2 July 2003, and the 30-day public review period concluded on 3 August 2003.

This Closeout Report documents the completion of the demolition and removal of Buildings G, GW, W. All preparation and demolition activities, except for final site restoration, were performed in accordance with the detailed Work Plan to perform demolition and debris removal. At the time this closeout report was written, the site was being used to stage clean debris from building foundation removals. The site will be restored prior to parcel transfer and site restoration will be documented in an addendum to this closeout report.

A Multi-Agency Radiation Survey and Site Investigation Manual (MARSSIM) study of Building G, GW, W was performed prior to demolition. The study report (provided in the Final BDP) provides details of the survey design and results and indicates that Buildings G, GW, W met applicable surface release criteria. Post-demolition surveys showed no elevated readings (copies are provided in Appendix B).

Building debris was loaded into haulers and taken to a local sanitary landfill.

The demolition of Buildings G, GW, W commenced on 05 Aug 2003 and was completed on 19 Feb 2004. Photographs taken before, during, and after demolition are provided in Appendix A.

Table 1 of the Building Data Package for Buildings G, GW, W makes reference to the PRS 332, G Building Waste Oil Tank (Tank 262) and to be aware that it could still be present. During demolition, no tank was found.

Soil Sampling for PRS 106 was performed immediately after removal of the G and GW building slabs in February 2004. Analytical results are provided in the PRS 106 PRS Package. The Core Team Recommendation is provided in Appendix C herein.

After building demolition, the site was used to stage clean foundation demolition rubble from various buildings. As a result of this follow-on use, final site restoration was postponed. Prior to parcel transfer the site will be cleared, graded, and seeded. Site restoration will be documented as an addendum to this closeout report.

Table 2 - Materials Disposition (By Building)

Building G Material	Quantity	Disposal Method	Destination
Asbestos Abatement (Debris)	220 cubic feet	Landfill	Stoney Hollow
Construction Debris (concrete and rebar)	45,320 cubic feet	Landfill	Stoney Hollow
PCB Light Ballast	2.7 cubic feet	Treatment	Clean Harbors

Building GW Material	Quantity	Disposal Method	Destination
Asbestos Abatement (Debris)	300 cubic feet	Landfill	Stoney Hollow
Construction Debris (concrete and rebar)	60,426 cubic feet	Landfill	Stoney Hollow
PCB Light Ballast	2.7 cubic feet	Treatment	Clean Harbors
Glycol	2,863 liters	Treatment	Clean Harbors

Building W Material	Quantity	Disposal Method	Destination
Asbestos Abatement (Debris)	700 cubic feet	Landfill	Stoney Hollow
Construction Debris (concrete and rebar)	196,384 cubic feet	Landfill	Stoney Hollow
PCB Light Ballast	5.4 cubic feet	Treatment	Clean Harbor
Glycol	9,507 liters	Treatment	Clean Harbor

4.0- PROBLEMS ENCOUNTERED

Buildings G, GW, W were successfully demolished per the Work Package. As stated in Section 3.0, after building demolition, the site was used to stage clean foundation demolition rubble from various buildings. As a result of this follow-on use, final site restoration was postponed. Prior to parcel transfer the site will be cleared, graded, and seeded. Site restoration will be documented as an addendum to this closeout report.

5.0 RESOURCES COMMITTED

5.1 Personnel Organization

Table 3 lists the personnel organization for the demolition.

Table 3 - Personnel Organization for the Demolition

Agency or Party Involved	Contact	Description of Participation
US EPA (SR-6J) 77 W. Jackson Chicago, IL 60604 312-886-7058	David Seely	Federal agency responsible for MCP oversight.
Ohio EPA 410 E. Fifth Street Dayton, OH 45402-2911 937-285-6468	Brian Nickel	State agency responsible for MCP oversight.
DOE/ MCP P.O. Box 66 1 Mound Road Miamisburg, OH 45343-0066 847-8350, ext. 304	Frank Schmaltz	DOE/ MCP Project Manager responsible for project oversight and success.
CH2M Hill Mound, Inc. BOSS Project P.O. Box 3030 1 Mound Road Miamisburg, OH 45343-3030 937-865-4169	Chris Watson	Provided the DOE/ MCP Project Manager with technical assistance, administrative support, sampling, decontamination, photo and site documentation, site safety, and report preparation.
CH2M Hill Mound, Inc. General Superintendent and Equipment Manager P.O. Box 3030 1 Mound Road Miamisburg, OH 45343-3030 937-865-4278	Max Edington	Provided the equipment necessary for the demolition.

5.2 Demolition Cost

Under the new site contract, CH2M Hill Mound, Inc. has elected to cluster financial data for multiple buildings together. Building G, GW, W are part of Cluster W, which also includes Building 47. The total cluster cost is presented in Table 4.

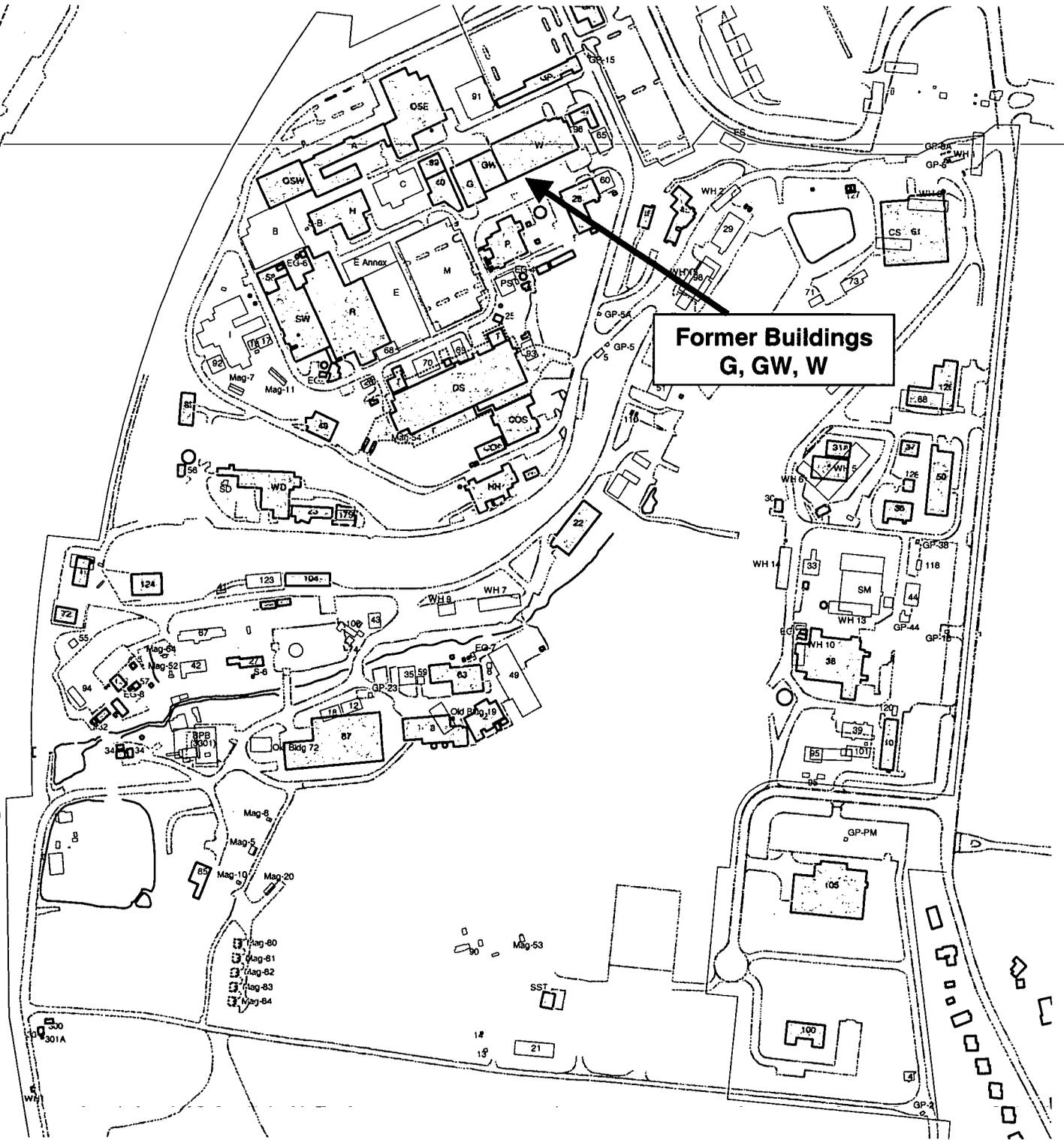
Table 4 - Cluster W Total Cost

Activity	Cost
Work Planning	\$44,000
Facility Prep	\$357,000
Demolition	\$184,000
Total	\$585,000

APPENDIX A

Figures

Figure 1 - Location of Buildings G, GW, W



A10ts

A 2 of 5



- PRS Point
- PRS Area
- - - PRS Line

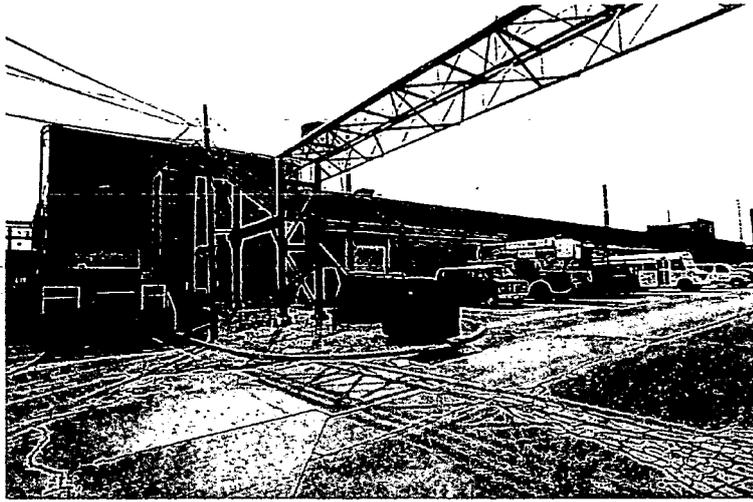


05/12/03	SSSF				
DATE	BY	CHK	DRG	INFC	APVD

SHEET	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27		
ISSUE																							
SHEET	1	2	3	4	5	6																	
ISSUE																							
PART CLASSIFICATION																							
UNCLASSIFIED															SIZE		DRAWING NUMBER		JOB NUMBER				
DRG TYPE	STE	PRNG	ER-GIS	CAZCC	SCALE		SHEET 1 OF 1																
STATUS MD-REL-05/12/03															ORIGN							MSTATION / J	

Figure 2:
Buildings G, GW, W
and Vicinity

Figure 3 - Building Photos



W Building

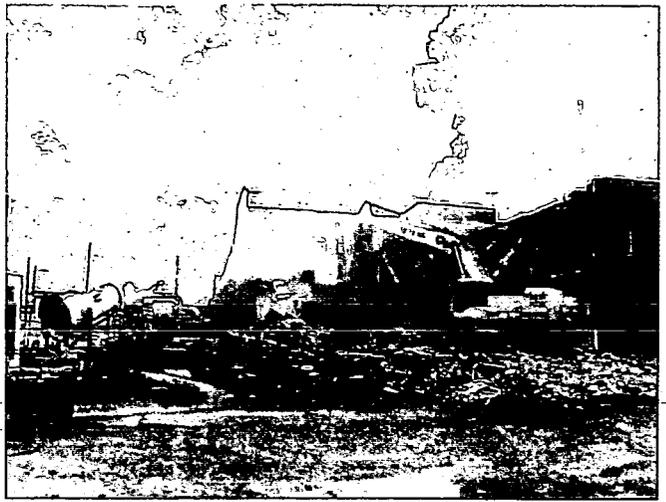
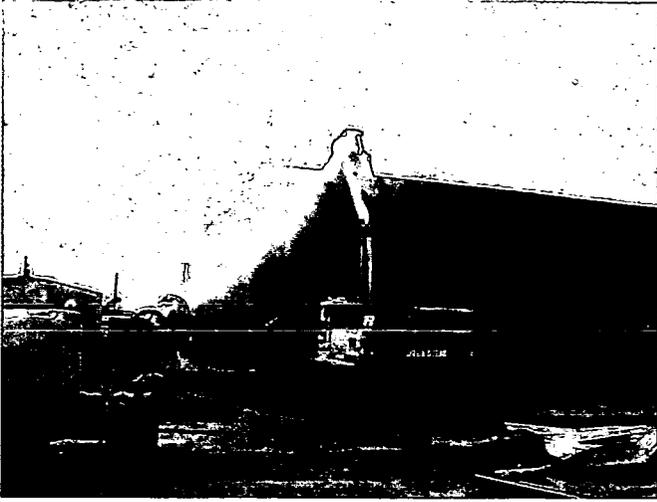


GW Building

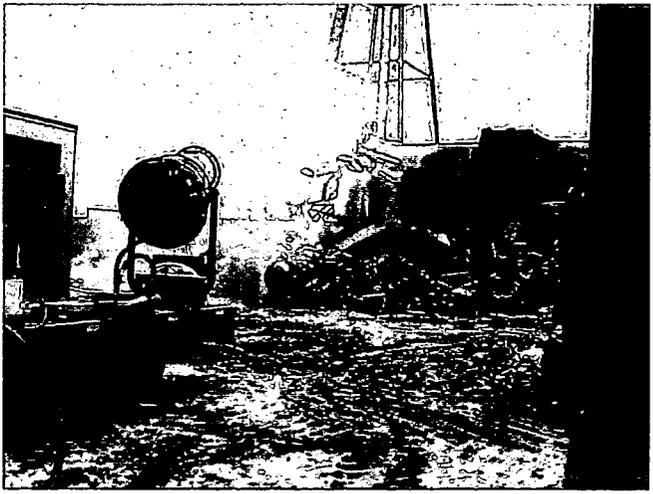
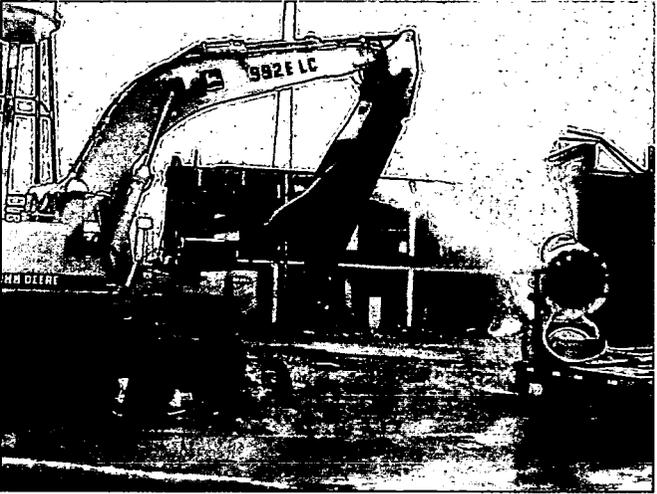


G Building

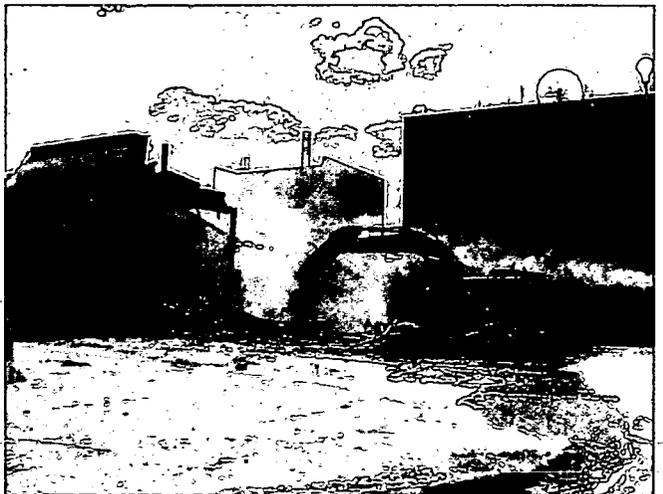
A 3 of 5



W Building Demolition

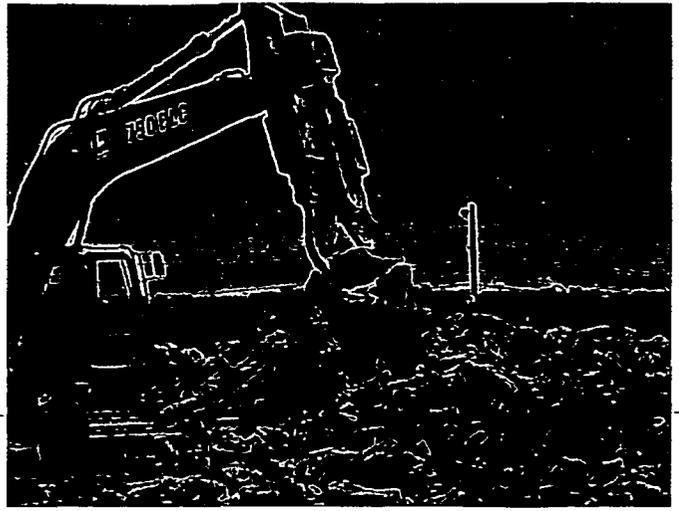


GW Building Demolition

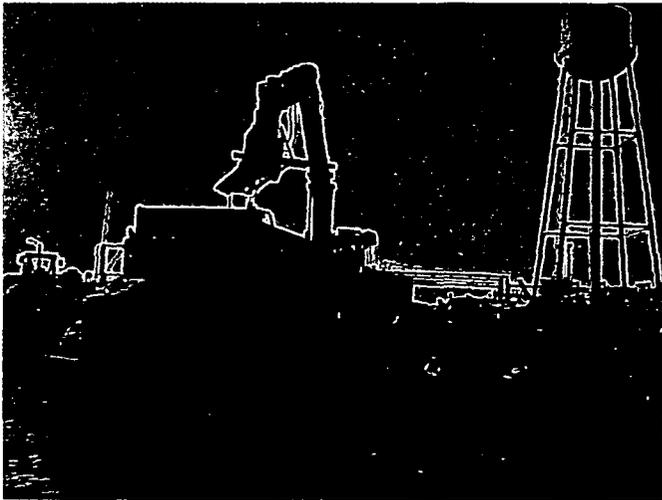


G Building Demolition

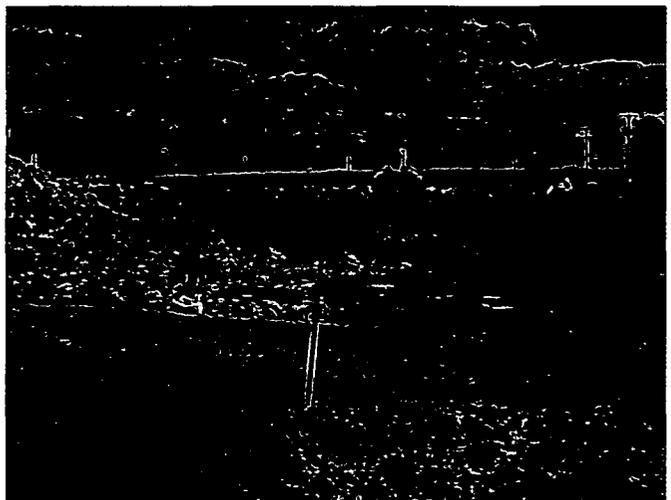
A4 065



Slab Removal



Debris Loading



Current Condition

APPENDIX B

**Post-Final Status Survey Report
Radiological Surveys**

RADIOLOGICAL SURVEY DATA SHEET

LOCATION: (BLDG./AREA/ROOM) BLDG. W/GW/G	SURVEY NO. 03-TF-0231
PURPOSE: RELEASE OF CONCRETE SLABS FOR TRANSFER TO WASTE MGMT.	RWP NO. N/A
	DATE: 9-23-03
	TIME: 1600

MAP/DRAWING

COPY

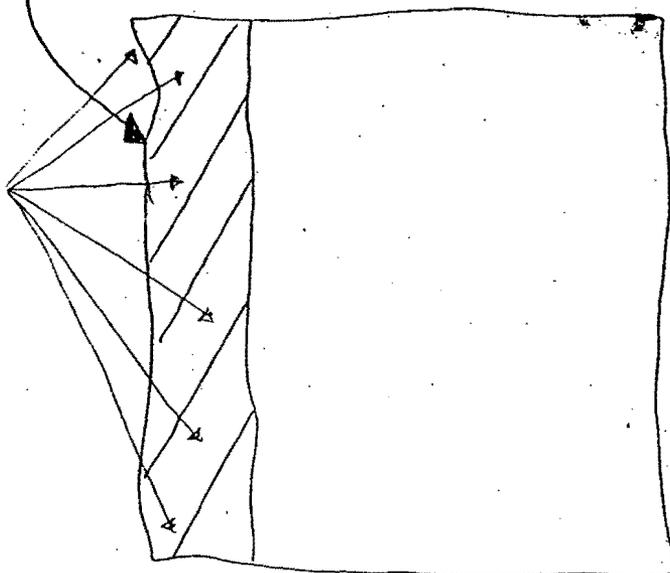
L2360

Bkg. \Rightarrow .8/ α
 D.L. \Rightarrow 1.2/ α
 40/ β

FIDLER

BKG. \Rightarrow 250 cpm

AREA SURVEYED



SMEARS
 TAKEN @
 RANDOM
 1-35



L2360

INTEGRATED COUNTS TAKEN IF AUDIBLE DETECTED. No AUDIBLE DETECTED.

ALL DIRECT READINGS $< 100 \text{ dpm}/100 \text{ cm}^2 \alpha$ AND $< 5000 \text{ dpm}/100 \text{ cm}^2 \beta$

FIDLER

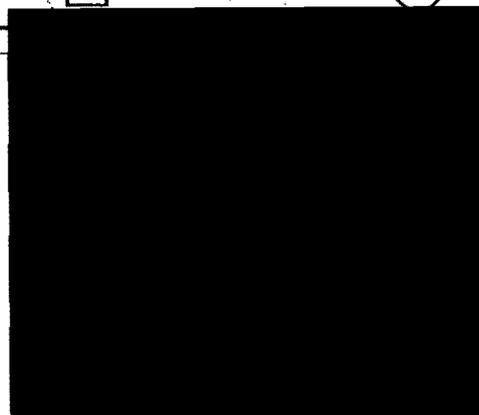
ALL FIDLER READINGS WERE \leq BKG. (250 cpm)

- LEGEND:
- # = mrem/hr (γ) whole body
 - #E = mrem/hr ($\beta + \gamma$) extremity on-contact
 - = mrem/hr neutron
 - = air sample number
 - = swipe number
 - or β = direct cont. measurement in dpm/100cm²

INSTRUMENTS USED

Instrument	Serial Number	Cal. Due Date
FIDLER	3815/3846	9-23-04
2360	5695/5844	4-17-04
L3030	5816	7-10-04
A		

HP #	Date:
7434	9-23-03
HP #	Date:
SEE ATTACHED	
HP #	Date:
5787	10-2-03



Alpha/Beta Analysis

Batch ID:	Smear Unit 2 - 200309240642	Count Date:	9/24/2003
Group:	J	Count Minutes:	1.5
Serial Number:	78218-2	Count Mode:	Simultaneous
Batch ID:	03-TF-0231 ABER-35 BSB	Operating Volts:	1380
Selected Geometry:	Swipe/Smear	Cal Due Dates:	6/19/2004

	Efficiency (%)		Spillover (%)
Alpha:	35.30 ± 0.11	Alpha to Beta:	9.38 ± 0.00
Beta:	44.94 ± 0.12	Beta to Alpha:	0.85 ± 0.00

Sample ID	Carrier ID	Alpha (dpm)	σ	Beta (dpm)	σ
1	7	1.96	1.89	5.00	2.97
2	71	0.00	0.02	1.28	1.48
3	98	0.00	0.00	0.00	0.00
4	54	0.00	0.03	3.84	2.57
5	67	0.00	0.00	0.00	0.00
6	69	0.00	0.00	0.00	0.00
7	18	1.96	1.89	5.00	2.97
8	72	1.97	1.89	3.72	2.58
9	27	1.99	1.89	2.44	2.10
10	9	2.01	1.89	1.16	1.49
11	52	0.00	0.04	6.40	3.32
12	99	0.00	0.02	1.28	1.48
13	33	0.00	0.02	2.56	2.10
14	79	0.00	0.02	2.56	2.10
15	30	1.99	1.89	2.44	2.10
16	18	0.00	0.02	2.56	2.10
17	65	2.01	1.89	1.16	1.49
18	75	1.97	1.89	3.72	2.58
19	92	0.00	0.02	2.56	2.10
20	96	0.00	0.02	1.28	1.48
21	83	2.02	1.89	0.00	0.14
22	70	0.00	0.02	2.56	2.10
23	22	0.00	0.02	1.28	1.48
24	59	0.00	0.02	1.28	1.48
25	48	0.00	0.03	3.84	2.57
26	19	1.99	1.89	2.44	2.10
27	97	0.00	0.02	1.28	1.48
28	20	2.01	1.89	1.16	1.49
29	76	2.01	1.89	1.16	1.49
30	99	2.02	1.89	0.00	0.14
31	89	0.00	0.00	0.00	0.00
32	49	0.00	0.03	5.12	2.97
33	82	0.00	0.04	6.40	3.32
34	16	2.02	1.89	0.00	0.14
35	68	7.84	3.78	18.72	5.76

B. Brown

B3 of 15

Time: 2.00

Data Mode: DPM

Nuclide: SMGLS02

Quench Set: SMGLS02

Background Subtract: 1st Vial

	LL	UL	LCR	25%	BKG
Region A:	0.5 - 18.6		0	0.0	7.01
Region B:	2.0 - 18.6		0	0.0	6.79
Region C:	40.0 - 2000		0	0.0	12.30

Quench Indicator: tSIE/AEC

Ext Std Terminator: Count

03-TF-0231 ABER-35 BSB

Luminescence Correction On

Coincidence Time(ns): 18

Delay Before Burst(ns): Normal

Protocol Data Filename: c:\data\PROT1.DAT

Count Data Filename: c:\data\SDATA1.DAT

Spectrum Data Drive & Path: c:\data

S#	TIME	CPMA	CPMB	LUM	FLAG	tSIE	DPM1	2Sigma	CPMC
-1	10.00	7.01	6.79	0	B	599.38		0.00	12.30
0	2.00	170.85	164.76	0		466.66	388.62	52.22	2.70
1	2.00	2.99	2.41	0		608.41	5.92	9.48	0.00
2	2.00	6.96	5.89	0		665.94	13.19	10.55	5.20
3	2.00	10.99	10.66	0		452.77	25.50	14.58	19.04
4	2.00	7.49	5.96	0		657.42	14.28	10.80	3.20
5	2.00	2.00	1.43	0		609.19	3.97	9.05	5.70
6	2.00	3.24	2.45	0		593.64	6.50	9.70	4.70
7	2.00	2.74	1.97	0		444.83	6.42	11.09	1.83
8	2.00	3.99	3.58	0		519.57	8.55	10.68	0.20
9	2.00	7.67	7.71	0		615.26	15.12	11.24	8.70
10	2.00	0.82	1.03	0		508.81	1.77	9.29	0.20
11	2.00	9.11	8.95	0		378.23	23.85	15.60	3.20
12	2.00	9.49	7.71	0		563.31	19.56	12.42	9.54
13	2.00	1.47	1.69	0		637.07	2.85	8.61	0.20
14	2.00	0.99	0.46	0		590.22	2.00	8.73	0.00
15	2.00	0.00	0.00	0		568.98	0.00	0.00	0.00
16	2.00	0.00	0.00	0		568.66	0.00	0.00	0.00
17	2.00	0.00	0.00	0		566.22	0.00	0.00	0.00
18	2.00	0.00	0.00	0		402.61	0.00	0.00	0.00
19	2.00	1.99	1.56	0		532.22	4.22	9.66	4.20
20	2.00	0.99	1.21	0		526.41	2.12	9.23	0.00
21	2.00	0.00	0.00	0		606.76	0.00	0.00	0.00
22	2.00	2.34	1.70	0		645.37	4.51	8.93	0.70
23	2.00	5.99	6.21	0		639.59	11.58	10.41	0.70
24	2.00	0.74	0.58	0		652.78	1.41	8.18	1.70
25	2.00	1.80	2.02	0		567.76	3.70	9.28	0.70
26	2.00	3.63	3.59	0		587.07	7.32	9.92	0.20
27	2.00	0.99	0.93	0		605.94	1.98	8.62	0.00
28	2.00	2.99	3.21	0		635.43	5.81	9.27	0.00
29	2.00	3.49	2.65	0		643.72	6.73	9.41	0.00
30	2.00	1.27	1.49	0		654.72	2.42	8.40	1.20
31	2.00	0.86	1.08	0		664.03	1.63	8.16	0.00
32	2.00	0.00	0.00	0		497.45	0.00	0.00	3.41
33	2.00	0.00	0.00	0		493.68	0.00	0.00	0.00
34	2.00	0.00	0.00	0		561.84	0.00	0.00	0.00

X N. 11.11 B4 of 15

2003 10:28

ALPHA/BETA - 1.09

PAGE 5 OF 5
Page #2 JV 9-24-03
User : 5268

1 #: 1

PW H3 405828

TIME	CPMA	CPMB	LUM FLAG	tSIE	DPM1	2Sigma	CPMC
2.00	2.05	1.29	0	582.68	4.16	9.27	3.20

X JV 9.24.03

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RADIOLOGICAL SURVEY DATA SHEET

LOCATION: (BLDG/AREA/ROOM) BLDG W/GW/S	SURVEY NO. 03-TF-0237
PURPOSE: RELEASE OF CONCRETE SLABS FOR TRANSFER TO WASTE MGMT.	RWP NO. N/A
	DATE: 9-24-03
	TIME: 1600

MAP/DRAWING

COPY

L2360

BKG. \Rightarrow 1.8/ α

D.L. \Rightarrow 1.7/ α

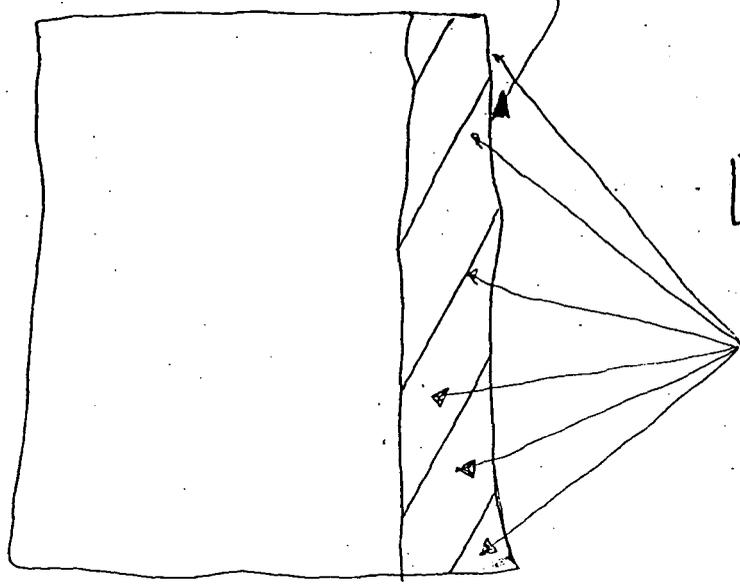
3.0/ β

FIDLER

BKG. \approx 250cpm

SMEARS TAKEN @
RANDOM 1-22

AREA SURVEYED



L2360

INTEGRATED COUNTS TAKEN IF AUDIBLE DETECTED. **NO** AUDIBLE DETECTED.

ALL DIRECT READINGS $\leq 21000 \text{ dpm}/100 \text{ cm}^2 \alpha$ AND $\leq 5000 \text{ dpm}/100 \text{ cm}^2 \beta$

FIDLER

ALL READINGS WERE \leq BKG. (250cpm)

LEGEND: # = mrem/hr (γ) whole body \triangle # = mrem/hr neutron \odot # = swipe number
 #E = mrem/hr ($\beta + \eta + \gamma$) extremity on contact # = air sample number \odot/α or β = direct cont. measurement in dpm/100cm²

INSTRUMENTS USED

Instrument	Serial Number	Cal. Due Date
FIDLER	3815/3846	9-23-04
13030	5816	7-10-04
L2360	5695/5844	4-17-04
	V	
	K	

Co	HP #	Date:
	7434	9-24-03
Co	HP #	Date:
	7434	9-24-03
Co	HP #	Date:
	5787	10-2-03

RADIOLOGICAL SURVEY DATA SHEET

LOCATION: (BLDG / AREA / ROOM)	G-SLAB	SURVEY NO.	04-TF-0037
PURPOSE:	SURVEY CONCRETE FOR RELEASE TO WASTE MGMT	RWP NO.	N/A
		DATE:	1-29-04
		TIME:	0900

MAP/DRAWING

COPY

INTEGRATED READING TAKEN IF
AUDIBLE DETECTED ON 2360. NO
AUDIBLE DETECTED. ALL READINGS
< 100 dpm/100 cm² - α , < 5000 dpm/100 cm² - β .
FIDLER USED FOR INDICATION ONLY. NO
ELEVATED READINGS DETECTED.
SWIPE RESULTS ATTACHED.

LEGEND: # = mrem/hr (γ) whole body
#E = mrem/hr ($\beta + \eta + \gamma$) extremity on contact

\triangle # = mrem/hr neutron

\odot # = swipe number

\square # = air sample number

\odot # α or β = direct cont. measurement in dpm/100cm²

INSTRUMENTS USED

Instrument	Serial Number	Cal. Due Date
FIDLER	5872/3964	1-14-05
2360	5833/5847	3-13-04
	N/A	



HP #	5760	Date:	1-29-04
HP #		Date:	
HP #	7492	Date:	1-29-04

RADIOLOGICAL SURVEY DATA SHEET (cont.)

Removable Contamination				
Sample #	Swipes (dpm/100cm ²)			Comments
	β/γ	Alpha	Tritium	
1	SEE		N/A	CONCRETE
2	ATTACHED			
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20	✓	✓	✓	✓
N/A				

Removable Contamination				
Sample #	Swipes (dpm/100cm ²)			Comments
	β/γ	Alpha	Tritium	
N/A				

COMMENTS: N/A

NOTES:

1. See MD-80036 10002 for calculations of WB, extremity and skin dose rates.
2. To request RO Count Room analysis for β/γ , alpha or tritium, leave column blank. Mark column N/A if not needed. If count room printout of results are attached, write "see attached" in column.
3. Annotate special sample type (e.g., soil, water), special identifiers or otherwise in Comments. If not needed, mark N/A.

Smear Analysis

Unit Type: LB4100/W
 Counting Unit ID: Green
 Data file name: SMEAR009
 Batch Ended: 1/29/04 9:45
 Cal. Due Date: 5/1/05
 Serial Number: 26966-3

Batch ID: REYNOLDS 04-TF-0037 [20] JC

B11 of 15

Detector ID	Sample ID
A1	1
A2	2
A3	3
A4	4
B1	5
B2	6
B3	7
B4	8
C1	9
C2	10
C3	11
C4	12
D1	13
D2	14
D3	15
D4	16
A1	17
A2	18
A3	19
A4	20

Alpha Activity		
DPM	σ	flags
0.00	2.00	
0.00	1.95	
0.00	2.16	
1.73	1.99	
0.00	1.95	
0.00	1.98	
0.00	2.06	
0.00	2.00	
1.81	1.99	
1.65	1.82	
0.00	2.08	
1.62	1.98	
0.00	2.11	
0.00	2.18	
0.00	2.30	
1.64	2.21	
0.00	2.02	
0.00	1.95	
0.00	2.18	
0.00	1.99	

Beta Activity		
DPM	σ	flags
0.00	1.30	
0.00	1.15	
0.00	1.26	
0.00	1.17	
1.46	2.15	
2.71	2.31	
0.59	1.79	
3.84	2.56	
0.69	1.74	
0.12	1.59	
0.00	1.27	
0.00	1.18	
2.14	2.58	
0.00	1.24	
3.37	2.61	
0.00	1.25	
1.93	2.22	
0.00	1.15	
1.73	2.16	
0.00	1.17	

JRC

JRC

G-SLAB CONCRETE

3 of 3
 Page 4 of 4
JRC 1-29-04

J. Collins

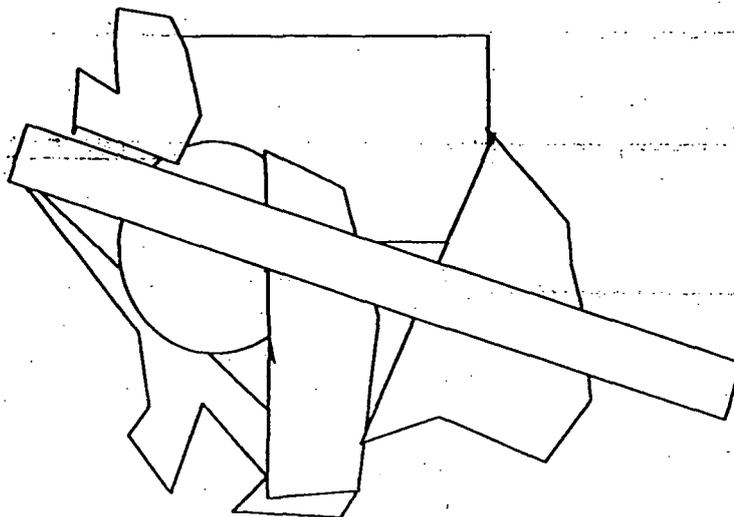
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RADIOLOGICAL SURVEY DATA SHEET

LOCATION: (BLDG./AREA/ROOM) <u>GW</u>	SURVEY NO. <u>04-TF-0045</u>
PURPOSE: <u>RELEASE OF CONCRETE AND ELEVATOR CYLINDER TO WASTE MANAGEMENT</u>	RWP NO. <u>N/A</u>
	DATE: <u>2-4-04</u>
	TIME: <u>1000</u>

MAP/DRAWING

COPY



Fidler used for indication only. Results were NON-detectable.

Integrated count taken IF audible detected. NO audible detected.

ALL direct readings <100dpm/100cm² Alpha and <5000dpm/100cm² Beta

LEGEND:
 # = mrem/hr (γ) whole body
 # E = mrem/hr (β +n γ) extremity on contact
 K = factor of 1000
 - - - - - = radiological boundary
 \triangle # = mrem/hr neutron
 # = air sample number
 (#) = swipe number
 (# / α) or β = direct contamination measurement in dpm/100cm²

INSTRUMENTS USED

Instrument	Serial Number	Cal. Due Date
FIDLER	5872/3964	1-14-05
2360	5833/5847	3-13-05
N/A		

HP# <u>6178</u>	Date: <u>02-04-04</u>
<u>5214</u>	
HP#	Date:
attached	
HP# <u>7492</u>	Date: <u>2-5-04</u>

RADIOLOGICAL SURVEY DATA SHEET (cont.)

Removable Contamination				
Swipes (dpm/100cm ²)				
Sample#	Beta	Alpha	Tritium	Comments
1	SEE ATTACHED		N/A	ELEVATOR
2				CYLINDER
3				
4				↓
5				CONCRETE
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20	↓	↓	↓	↓
21				
22				
23				
24				
25				
26				
27				
28				
29		N/A		
30				
31				
32				
33				
34				
35				

Removable Contamination				
Swipes (dpm/100cm ²)				
Sample#	Beta	Alpha	Tritium	Comments
36				
37				
38				
39				
40				
41				
42				
43				
44				
45				
46				
47				
48				
49				
50				
51				
52				
53		N/A		
54				
55				
56				
57				
58				
59				
60				
61				
62				
63				
64				
65				
66				
67				
68				
69				
70				

COMMENTS: 2360 USED TO FIELD CHECK SMEARS BEFORE SENDING TO COUNT ROOM

- NOTES:
1. See MD-80036 10002 for calculations of WB, extremity and skin dose rates.
 2. To request RO count Room analysis for beta, alpha or tritium, leave column blank. Mark column N/A if not needed. If count room printout of results are attached, write "see attached" in column.
 3. Annotate special sample type (e.g., soil, water), special identifiers or otherwise in Comments. If not needed, mark N/A.

Smear Analysis

Unit Type: LB4100/W
 Counting Unit ID: Aqua
 Data file name: SMEAR006
 Batch Ended: 2/4/04 8:24

Crosstalk correction performed.

Recalibration Date: 03/18/05
 Serial Number: 26966-1

Batch ID: 04-TF-0045 HARVEY A/B (20) AG

Detector ID	Sample ID	Alpha Activity		
		DPM	σ	flags
A2	2	0.00	2.06	
A3	3	0.00	1.97	
A4	4	0.00	1.99	
B1	5	1.53	2.01	
B2	6	0.00	2.00	
B3	7	1.54	1.82	
B4	8	0.00	1.89	
C1	9	0.00	2.08	
C2	10	0.00	2.06	
C3	11	0.00	1.94	
C4	12	0.00	1.89	
D1	13	0.00	2.15	
D2	14	0.00	2.42	
D3	15	0.00	1.92	
D4	16	0.00	2.06	
A1	17	0.00	2.02	
A2	18	0.00	2.07	
A3	19	0.00	2.00	
A4	20	0.00	2.00	
A1	SAMPLE MISSING	0.00	2.00	

Beta Activity		
DPM	σ	flags
0.00	1.20	
1.35	2.08	
1.32	2.05	
0.24	2.33	
0.00	1.18	
0.00	1.21	
0.29	1.96	
1.47	2.47	
0.55	2.14	
0.00	1.20	
0.00	1.17	
2.25	2.45	
0.40	1.70	
0.00	1.66	
0.00	1.58	
1.55	2.16	
0.00	1.70	
4.95	2.95	
2.50	2.37	
0.00	1.25	

SR

SR

B150715

RSJS

P 3 23

04-TF-0045

Albert Ribon

APPENDIX C

PRS 106
Core Team Recommendation Sheet

**MIAMISBURG CLOSURE PROJECT
PRS 106**

RECOMMENDATION:

PRS 106 is the soil underlying the site's former garage (G Building). An historic soil vapor survey found no chemical contamination above Soil Vapor Screening Levels in the soil immediately adjacent to the garage. Recent characterization sampling and analysis of the underlying soil detected no contamination above soil Cleanup Objectives. No screening levels based on projected leaching of VOCs or PAHs into groundwater are exceeded. Available data supports that radiological contamination is within acceptable risk (10^{-5}) for industrial reuse.

Therefore, the Core Team recommends No Further Assessment for PRS 106.

A PRS Package with an NFA recommendation signed by the Core Team will be placed in the Public Reading Room for a 30-day review period. Upon closure of the public review comments, if any, the PRS Package will be issued as a final document and made available in the Public Reading Room.

The final Core Team recommendation sheet from this evaluation will be included in the G-GW-W Buildings Closeout Report.

CONCURRENCE:

DOE/MCP:	<i>Paul Lucas</i>	11/17/04
	Paul Lucas, Remedial Project Manager	(date)
USEPA:	<i>Timothy Fischer</i>	11/17/04
	Timothy Fischer, Remedial Project Manager	(date)
OEPA:	<i>Brian K. Nickel</i>	11/17/04
	Brian K. Nickel, Project Manager	(date)

APPENDIX D

Buildings 40, 47, 99, G, GW, and W Closeout Report Addendum 1

Buildings 40, 47, 99, G, GW, and W

Closeout Report

Addendum 1

April 2005

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PURPOSE

The purpose of this addendum is to document the removal of the remaining foundation wall associated with the demolition of Buildings 40 and 99, and to document the final site restoration associated with the demolition of Buildings 40, 47, 99, G, GW, and W.

REFERENCES

- 1) Buildings 40 and 99 Closeout Report, Final, June 2004
- 2) Building 47 Closeout Report, Final, May 2004
- 3) Buildings G, GW, W Closeout Report, Final, January 2005

BACKGROUND

Section 3.0 of Reference 1 states that all preparation and demolition activities associated with the demolition and removal of Buildings 40 and 99 were complete except for the removal of one foundation wall that was delayed until after OSE Building power was redirected to allow shutdown of an adjacent electrical duct bank.

Section 3.0 of References 1, 2, and 3 states that all preparation and demolition activities associated with the demolition and removal of Buildings 40, 47, 99, G, GW, and W were complete except for the final site restoration. After the buildings were demolished, the site was used to stage clean foundation demolition rubble from various buildings. As a result of this follow-on use, final site restoration was postponed.

ACTION TAKEN

The remaining foundation wall of Buildings 40 and 99 was removed after power to OSE Building was redirected, allowing the shutdown of an adjacent electrical duct bank.

Site restoration was completed for the site of the former Buildings 40, 47, 99, G, GW, and W. Contract No. DE-AC24-03-OH20152, Section C.2.1.1.6 was modified by Letter MCP-025-05, dated October 27, 2004, authorizing the use of a crushed gravelized finished surface in lieu of seeding for this area.

A photograph taken after removal of the foundation wall and after completion of site restoration is provided in Appendix A.

DEMOLITION COST

Under the new site contract, CH2M Hill Mound, Inc. has elected to cluster financial data for multiple buildings together. Buildings G, GW, W, and 47 are identified as Cluster W. Building 40 is the only building in Cluster 40, and Building 99 is the only building in Cluster 99. The total costs for Clusters 40, 99, and W are presented in Table 1.

Table 1 – Clusters 40, 99, and W Total Costs

Cluster 40 Cost

Activity	Cost
Work Planning	\$23K
Demolition	\$57K
Total	\$80K

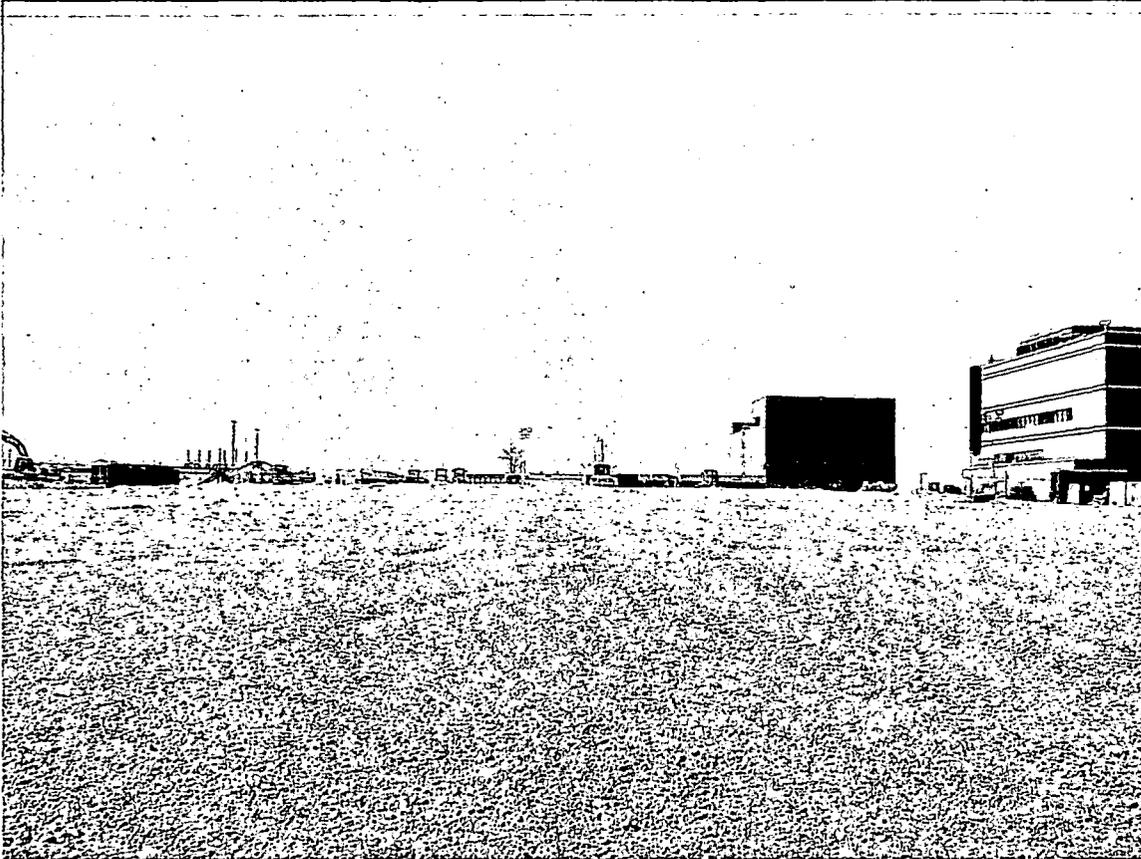
Cluster 99 Cost

Activity	Cost
Work Planning	\$14K
Facility Prep	\$78K
Demolition	\$115K
Total	\$207K

Cluster W Cost

Activity	Cost
Work Planning	\$44,000
Facility Prep	\$359,000
Demolition	\$225,000
Total	\$628,000

Appendix A



**Building 40, 47, 99, G, GW, and W Area After Final Grade
(view looking west)**