

3005-980803-0004



BWX Technologies, Inc.

Babcock & Wilcox, a McDermott company

Babcock & Wilcox of Ohio, Inc.

1 Mound Road
P.O. Box 3030
Miamisburg, Ohio 45343-3030
(937) 865-4020

ESC-173/98
July 8, 1998

98-TC/7-08

Director, Miamisburg Environmental Management Project
U.S. Department of Energy
P.O. Box 66
Miamisburg, OH 45343-0066

ATTENTION: Dewain Eckman

SUBJECT: Contract No. DE-AC24-97OH20044
**FINAL CLOSE OUT REPORTS ON DEMOLITION OF BUILDING
33, GUARD POST 44, AND MAGAZINE 53**

REFERENCE: Statement of Work Requirement C 7.1 -- Regulator Reports

Dear Mr. Brown:

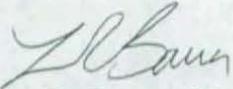
Attached are the Final Reports on the demolition of Building 33, Guard Post 44, and Magazine 53. These reports provide summary information on the successful demolition of these buildings and complete these efforts.

The release of these documents to USEPA, OEPA, and ODH has been authorized by Paul Lucas of MEMP.

Page 2 FINAL CLOSE OUT REPORTS ON DEMOLITION OF BUILDING 33, GUARD
POST 44, AND MAGAZINE 53

Please advise if additional copies are required for distribution within DOE. If you require further information, please contact Dave Rakel at extension 4203.

Sincerely,



Linda R. Bauer, Ph.D.
Department Manager, Environmental Safeguards & Compliance

LRB/nmg

Enclosures as stated

cc: T. Fischer, USEPA, (1) w/attachment
J. Raines, TechLaw, (1) w/attachment
B. Nickel, OEPA, (1) w/attachment
K. Fox, OEPA, (1) w/attachment
R. Beaumier, OEPA, (1) w/attachment
R. Vandegrift, ODH, (1) w/attachment
T. Tracy, DOE/HQ, (1) w/attachment
O. Vincent, DOE/MEMP, (1) w/attachment
S. Cheng, DOE/MEMP, (2) w/attachment
R. Bauer, B&W, (1) w/attachment
G. Maul, B&W, (1) w/attachment
F. Spittler, B&W, (1) w/attachment
Public Reading Room, (5) w/attachment
DCC, w/o attachment

SM/PP Hill Project

FINAL CLOSE OUT REPORT

Demolition of Magazine 53



MOUND PLANT
Miamisburg, Ohio

JUNE 30, 1998



Babcock & Wilcox of Ohio, Inc.



Department Of Energy

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Executive Summary

This is the final report documenting the demolition of Magazine 53 as initially defined in the Building Data Package (BDP) introduced in May 1997. Demolition was completed in April 1998. This documentation serves as the record of the demolition action and reports final costs, schedule, waste disposition information, method of demolition, and any unusual findings. Photographs and references to other related documents are also included.

Constructed in 1970, Magazine 53 served as a storage bunker for explosives related wastes. It was a single story, single cell, 239 square foot slab on grade structure covered with approximately two-feet of earth. The head wall and rear wall were constructed of reinforced concrete; the side walls and roof were constructed of corrugated steel. The SM/PP Project at Mound Plant demolished the building and concrete pad per the Work Plan, dated March 1998, Revision March 18, 1998.

All preparation and demolition activities were performed in accordance with this Work Plan to include structure characterization, safe shutdown, utilities isolation, site access control, interior decontamination and demolition requirements (to include contaminant abatement), structure demolition, and debris removal. Approximately 120 cubic yards of construction debris (non-radioactively contaminated) were removed from the Magazine 53 demolition site, as noted in Table 2.

The Magazine 53 superstructure, slab, and foundation were successfully demolished.

It is recommended to the Department of Energy that the scope of work relating to this structure be considered complete.

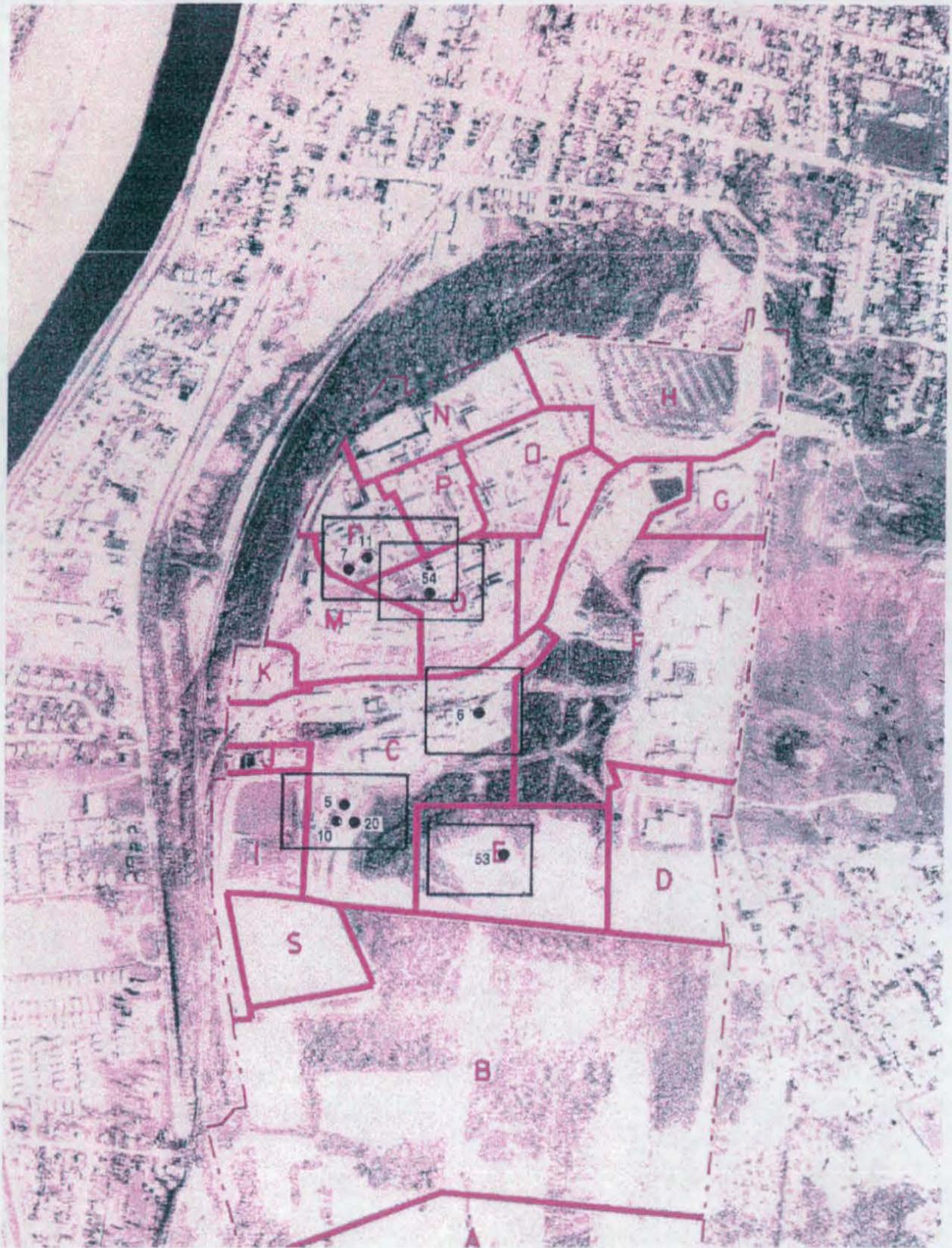


Figure 1. Mound Plant Site Location

Mound Plant Magazine 53 Materials Storage Release Block E

On the map below:

- Building number and location shown in black
- Surrounding buildings shown in green
- Fencing shown in red
- Elevation contours shown in brown

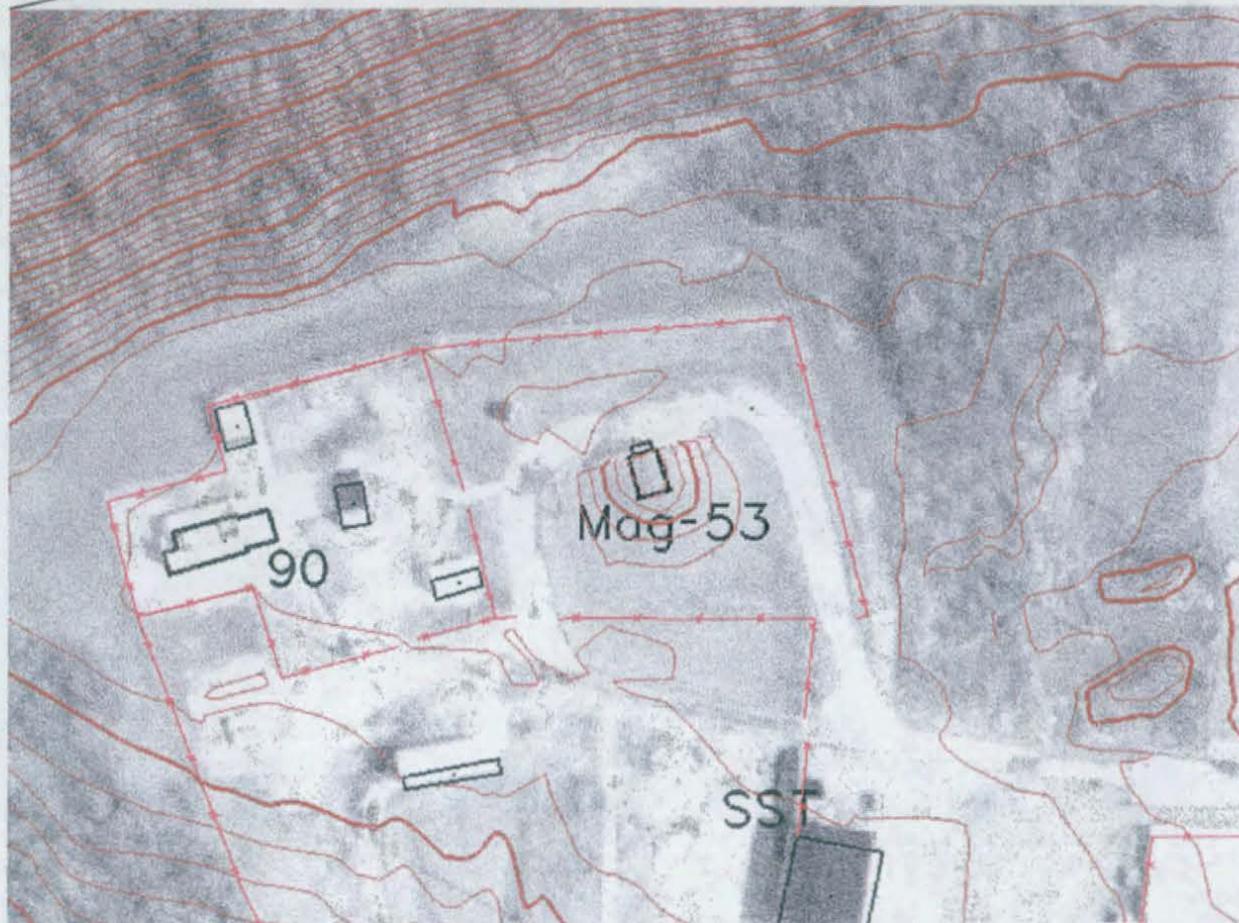
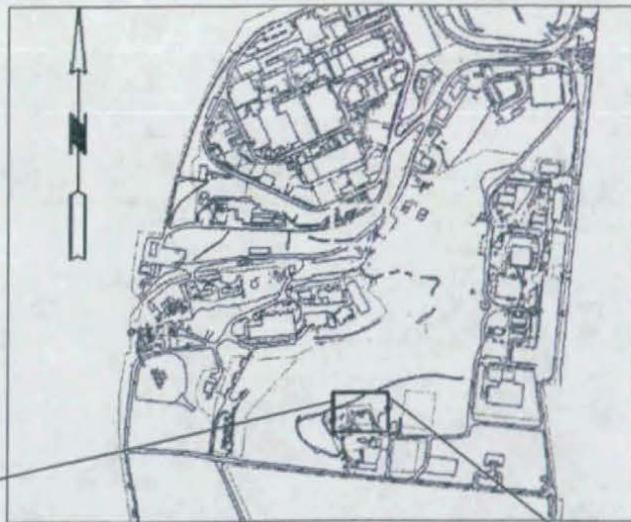


Figure 2. Demolition Site Location

1.0 SUMMARY OF EVENTS

1.1 Objectives of Demolition Activities

Magazine 53 was removed in support of the Mound Plant Exit Project. The removal was accomplished as a non-CERCLA demolition as noted by the Building Data Package (BDP) and detailed in the *General Work Plan for Magazine 53 Decontamination and Demolition at the Mound Site, Miamisburg, Ohio, March 1998, Revision 3/18/98*. The Work Plan gives detail of the planning and conduct of demolition operations. Note Figures 1 and 2 for Mound Plant and Magazine 53 locations.

1.2 Personnel Organization For The Demolition

See Table 1, Personnel Organization for the Demolition.

Table 1. Personnel Organization for the Demolition

Agencies or Parties Involved	Contact	Description of Participation
US EPA HSRM-6J 77 W. Jackson Chicago, IL 60604	Tim Fischer 312-886-5787	Federal agency responsible for site oversight.
Ohio EPA 410 E. Fifth Street Dayton, OH 45402-2911	Brian Nickel 937-285-6468	State agency responsible for site oversight.
DOE/MEMP P.O. Box 66 1 Mound Road Miamisburg, OH 45343-0066	James Johnson 937-865-5234	DOE Project Manager responsible for project oversight and success.
B&W Of Ohio SM/PP Hill Project P.O. Box 3030 1 Mound Road Miamisburg, OH 45343-3030	Felix Spittler 937-865-3981	Provided the DOE project manager with technical assistance, administrative support, sampling, photo and site documentation, site safety, and report preparation.
B&W of Ohio General Superintendent and Equipment Manager P.O. Box 3030 1 Mound Road Miamisburg, OH 45343-3030	Rich Higgins 937-865-4400	Provided the personnel and equipment necessary for the demolition

1.3 Chronological Narrative of Key Demolition Activities

- 01 OCT 96 Completed Safe Shutdown activities per RCRA Closure Plan - Burn Area
- 17 MAR 98 Started soil removal.
- 23 MAR 98 Completed soil removal.
- 24 MAR 98 Started demolition of Magazine 53.
- 26 MAR 98 Completed demolition of Magazine 53.
- 31 MAR 98 Started debris removal.
- 01 APR 98 Started soil restoration.
- 06 APR 98 Completed soil restoration.
- 07 APR 98 Completed debris removal.

1.4 Listing of Waste Materials Generated and Resources Committed

Table 2 shows the materials and their disposition. Table 3 includes the demolition total cost summary.

2.0 EFFECTIVENESS OF THE DEMOLITION

Magazine 53 was successfully demolished per the Work Plan and the site was restored to the original grade. All field work and laboratory analysis was accomplished by Babcock & Wilcox of Ohio personnel.

Table 2. Materials and Disposition

Material	Quantity	Method	Location
Construction Debris (concrete/masonry)	100 cubic yards	to be crushed later and recycled	Mound site: to be used as fill material.
Construction Debris (metals)	20 cubic yards	recycled	Franklin Metals

Table 3. Demolition Project Total Cost Summary

Extramural Costs:	Cost (\$)
Total Supplies and Equipment Costs	1,485.00
Total Technical Assistance Team (TAT) Costs	0
Total Laboratory Costs	0
<i>Total OTHER Program Costs</i>	0
EXTRAMURAL SUBTOTAL	1,485.00
Intramural Costs:	Cost (\$)
DOE Direct Costs	0
DOE Indirect Costs	26,063.00
INTRAMURAL SUBTOTAL	26,063.00
Total Cost and Ceiling:	Cost (\$)
TOTAL PROJECT COST	27,548.00
PROJECT CEILING	250,000.00

3.0 RECOMMENDATION

The Magazine 53 superstructure, slab, and foundation have been demolished and debris removed in accordance with documentation provided to the Mound 2000 Core Team. (See references below.) It is recommended to the Department of Energy that the scope of work relating to this building be considered complete.

4.0 REFERENCE LIST OF SUPPLEMENTARY DOCUMENTS

Contact Mark Becker, Babcock & Wilcox of Ohio, Public Relations, at (937) 865-4450 to request access to these supplemental documents.

- *Building Data Package (BDP) for Magazines 5, 6, 7, 10, 11, 20, 53, & 54*
- *General Work Plan for Magazine 53 Decontamination and Demolition at the Mound Site, Miamisburg, Ohio*
- Job Safety & Health Analysis

APPENDIX A

PHOTOGRAPHIC DOCUMENTATION





03/17/98 Bldg. 53, magazine, demolition *980627



03/25/98 Bldg. 53, magazine demolition *980675



05/11/98 Bldg. 53, magazine, restoration *980995

