

FEB 15 1994

ENGINEERING DATA TRANSMITTAL

1. EDT No 141953

Station # 12

2. To: (Receiving Organization) Distribution	3. From: (Originating Organization) Geosciences	4. Related EDT No.: N/A
5. Proj./Prog./Dept./Div.: Environmental Restoration	6. Cog. Engr.: T. H. Mitchell H6-06	7. Purchase Order No.: N/A
8. Originator Remarks: Approval and release		9. Equip./Component No.: N/A
		10. System/Bldg./Facility: N/A
11. Receiver Remarks:		12. Major Assm. Dwg. No.: N/A
		13. Permit/Permit Application No.: N/A
		14. Required Response Date: N/A

15. DATA TRANSMITTED					(F)	(G)	(H)	(I)
(A) Item No.	(B) Document/Drawing No.	(C) Sheet No.	(D) Rev. No.	(E) Title or Description of Data Transmitted	Impact Level	Reason for Transmittal	Originator Disposition	Receiver Disposition
1	WHC-SD-EN-SD-066 <i>DP</i>		0	Data package for Geophysical Investigations of the 118-B-1 Burial Ground	4	1/2	1	

16. KEY					
Impact Level (F)		Reason for Transmittal (G)		Disposition (H) & (I)	
1, 2, 3, or 4 (see MRP 5.43)		1. Approval	4. Review	1. Approved	4. Reviewed no/comment
		2. Release	5. Post-Review	2. Approved w/comment	5. Reviewed w/comment
		3. Information	6. Dist. (Receipt Acknow. Required)	3. Disapproved w/comment	6. Receipt acknowledged

17. SIGNATURE/DISTRIBUTION (See Impact Level for required signatures)											
(G)	(H)	(J) Name (K) Signature (L) Date (M) MSIN				(J) Name (K) Signature (L) Date (M) MSIN				(G)	(H)
Reason	Disp.									Reason	Disp.
1	2	Cog.Eng T. H. Mitchell	<i>T.H. Mitchell</i>	12/15/93	H6-06	EPIC (2)	<i>J.W. Fassett</i>	12/22/93	H6-08	3	
1	2	Cog. Mgr. J. W. Fassett	<i>J.W. Fassett</i>	12/22/93	H6-06	FR	<i>J.W. Fassett</i>	12/22/93	H6-07	3	
3		IRA Clearance	<i>Control File</i>	12/22/93	H4-17						
		Safety	N/A								
		Env.									

18. T. H. Mitchell <i>T.H. Mitchell</i> Signature of EDT Originator Date: 12/20/93	19. _____ Authorized Representative Date for Receiving Organization	20. J. W. Fassett <i>J.W. Fassett</i> Cognizant/Project Engineer's Manager Date: 12/22/93	21. DOE APPROVAL (if required) Ltr. No. <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/comments <input type="checkbox"/> Disapproved w/comments
--	---	---	--



Date Received: <b>1/3/94</b>	<b>INFORMATION RELEASE REQUEST</b>	Reference: WHC-CM-3-4
Complete for all Types of Release		
Purpose <input type="checkbox"/> Speech or Presentation <input type="checkbox"/> Full Paper (Check only one suffix) <input type="checkbox"/> Summary <input type="checkbox"/> Abstract <input type="checkbox"/> Visual Aid <input type="checkbox"/> Speakers Bureau <input type="checkbox"/> Poster Session <input type="checkbox"/> Videotape		ID Number (include revision, volume, etc.) <b>WHC-SD-EN-SD-066, Rev. 0</b> List attachments. Date Release Required <p align="center"><b>1/15/94</b></p>
<input type="checkbox"/> Reference <input checked="" type="checkbox"/> Technical Report <input type="checkbox"/> Thesis or Dissertation <input type="checkbox"/> Manual <input type="checkbox"/> Brochure/Flier <input type="checkbox"/> Software/Database <input type="checkbox"/> Controlled Document <input type="checkbox"/> Other		

Title Data Package for Geophysical Investigation of the 118-B-1 Burial Grounds.	Unclassified Category UC-	Impact Level 4
New or novel (patentable) subject matter? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes If "Yes", has disclosure been submitted by WHC or other company? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Disclosure No(s).	Information received from others in confidence, such as proprietary data, trade secrets, and/or inventions? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Identify)	
Copyrights? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes If "Yes", has written permission been granted? <input type="checkbox"/> No <input type="checkbox"/> Yes (Attach Permission)	Trademarks? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Identify)	
Complete for Speech or Presentation		
Title of Conference or Meeting N/A	Group or Society Sponsoring	
Date(s) of Conference or Meeting	City/State	Will proceedings be published? <input type="checkbox"/> Yes <input type="checkbox"/> No Will material be handed out? <input type="checkbox"/> Yes <input type="checkbox"/> No
Title of Journal		

CHECKLIST FOR SIGNATORIES			
Review Required per WHC-CM-3-4	Yes	No	Reviewer - Signature Indicates Approval
			Name (printed)      Signature      Date
Classification/Unclassified Controlled Nuclear Information	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Patent - General Counsel	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Per OGC memo 2/4/93 Review <i>[Signature]</i> 12/31/93
Legal - General Counsel	<input checked="" type="checkbox"/>	<input type="checkbox"/>	" " " " " " " " " " 12/27/93
Applied Technology/Export Controlled Information or International Program	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
WHC Program/Project	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Communications	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
RL Program/Project	<input type="checkbox"/>	<input checked="" type="checkbox"/>	E. Goller Review <i>[Signature]</i> 12/30/93
Publication Services	<input checked="" type="checkbox"/>	<input type="checkbox"/>	L.S. Hermann <i>[Signature]</i> 12/30/93
Other Program/Project	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Information conforms to all applicable requirements. The above information is certified to be correct.		<b>INFORMATION RELEASE ADMINISTRATION APPROVAL STAMP</b>	
References Available to Intended Audience	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Stamp is required before release. Release is contingent upon resolution of mandatory comments.	
Transmit to DOE-HQ/Office of Scientific and Technical Information	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Author/Requestor (Printed/Signature)	Date		
T. H. Mitchell <i>Tom Mitchell</i>	12/20/93		
Intended Audience	<input type="checkbox"/> Internal <input type="checkbox"/> Sponsor <input checked="" type="checkbox"/> External	Date Cancelled	Date Disapproved
Responsible Manager (Printed/Signature)	Date		
J. W. Fassett <i>J.W. Fassett</i>	12/22/93		

SUPPORTING DOCUMENT

1. Total Pages 466

<p>2. Title</p> <p>Data Package for Geophysical Investigation of the 118-B-1 Burial Grounds.</p>	<p>3. Number</p> <p>DP 14 WHC-SD-EN-SD-066</p>	<p>4. Rev No.</p> <p>0</p>
<p>5. Key Words</p> <p style="text-align: center;"><b>APPROVED FOR PUBLIC RELEASE</b> <i>V. Burkland</i> <i>1/3/94</i></p>	<p>6. Author</p> <p>Name: T. H. Mitchell</p> <p><i>Tom H. Mitchell</i> Signature</p> <p>Organization/Charge Code 81234/PA2AA</p>	

<p>7. Abstract</p> <p>K. A. Bergstrom, 1993, Geophysical Investigation of the 118-B-1 Burial Grounds, 100 B/C Area, Hanford Site, Westinghouse Hanford Company, Richland, Washington".</p>	
<p>8. PURPOSE AND USE OF DOCUMENT - This document was prepared for use within the U.S. Department of Energy and its contractors. It is to be used only to perform, direct, or integrate work under U.S. Department of Energy contracts. This document is not approved for public release until reviewed.</p> <p>PATENT STATUS - This document copy, since it is transmitted in advance of patent clearance, is made available in confidence solely for use in performance of work under contracts with the U.S. Department of Energy. This document is not to be published nor its contents otherwise disseminated or used for purposes other than specified above before patent approval for such release or use has been secured, upon request, from the Patent Counsel, U.S. Department of Energy Field Office, Richland, WA.</p> <p>DISCLAIMER - This report was prepared as an account of work sponsored by an agency of the United States Government. Neither the United States Government nor any agency thereof, nor any of their employees, nor any of their contractors, subcontractors or their employees, makes any warranty, express or implied, or assumes any legal liability or responsibility for the accuracy, completeness, or any third party's use or the results of such use of any information, apparatus, product, or process disclosed, or represents that its use would not infringe privately owned rights. Reference herein to any specific commercial product, process, or service by trade name, trademark, manufacturer, or otherwise, does not necessarily constitute or imply its endorsement, recommendation, or favoring by the United States Government or any agency thereof or its contractors or subcontractors. The views and opinions of authors expressed herein do not necessarily state or reflect those of the United States Government or any agency thereof.</p>	<p>10. RELEASE STAMP</p> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <p>OFFICIAL RELEASE <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">11</span></p> <p>WHC</p> <p>FEB 13 1994</p> <p><i>Station # 12</i></p> </div>
<p>9. Impact Level 4</p>	

CONTENTS

INTRODUCTION . . . . . 1

APPENDICES:

A Ground-Penetrating Radar Records - Grid Section A . . . . . A-1
B Ground-Penetrating Radar Records - Grid Section B . . . . . B-1
C Ground-Penetrating Radar Records - Grid Section C . . . . . C-1
D Ground-Penetrating Radar Records - Grid Section D . . . . . D-1
E Ground-Penetrating Radar Records - Grid Section E . . . . . E-1
F Electromagnetic Induction Data . . . . . F-1

FIGURES:

1 General Location of the Hanford Site . . . . . 2
2 Location of the 118-B-1 Burial Grounds . . . . . 3
3 Documented Layout of the 118-B-1 Burial Ground
(105-B Solid Waste Burial Ground) . . . . . 4
4 General Grid for Geophysical Data . . . . . 5
5 Grid Section A . . . . . 6
6 Grid Section B . . . . . 7
7 Grid Section C . . . . . 8
8 Grid Section D . . . . . 9
9 Grid Section E . . . . . 10



## INTRODUCTION

The Electromagnetic Induction (EMI) and ground-penetrating radar (GPR) data contained in this report were collected for the geophysical investigation conducted in support of the 118-B-1 radioactive solid waste burial ground. Results of these data are presented in Bergstrom (1993), *Geophysical Investigation of 118-B-1 Burial Grounds, 100 B/C Area, Hanford Site, Washington*. WHC-SD-EN-TI-137 REV. 0.

**Due to the large volume,  
a copy of the data  
supporting the Data  
Validation Report and  
the Sample Data Summary,**

**Pages 2 thru F-150,**

**is available only from  
Central Files.**