R. Kern RAK
Bob S. X
Barbara
FILE
SNL HSWA
OU 1334
ER Site 68

Sandia National Laboratories

Albuquerque, New Mexico 87185-1148

RECEIVED
HAZARDOUS WASTE
PROGRAM
NOV 1995

date: November 9, 1995

to: Mark Jackson, MS-0184 (DOE/AL:KAO)

Warren

from: Warren Cox, MS-1147 (7581) and Carole Lojek, MS-1148 (7585)

subject: Letter Report on Reapplication Pickup of Steel Test Stands at ER Site 68

On Friday, October 20, 1995, the Reapplication Services Department (Org. 7617) picked up 39 scrap metal items from ER Site 68 (the Old Burn Site), ranging in size from a few pounds up to 500 pounds. The scrap metal items were present in three piles around the burn pan near the center of the site (Figure 1). Preliminary activities that occurred before the pickup included: (1) analysis of pipe insulation to determine if asbestos was present; (2) a detailed inventory of each item; and (3) a radiation survey of all items to ensure that there was no radioactive material or removable radioactive contamination on the items.

Sampling of the pipe insulation for asbestos was done on February 2, 1995. The analytical results indicate that there is no asbestos in the pipe insulation (Attachment 1). The insulation is believed to be composed of fiberglass.

The scrap metal items were inventoried on September 14, 1995, and several additional items were found during the radiation survey on October 9, 1995. Attachment 2 is an inventory of items that were removed from the site.

Site 68 is a Radioactive Materials Management Area (RMMA), so all of the materials had to be surveyed for radioactivity before removal from the site. The radiation survey was performed on October 9, 1995, and the results of the survey are presented in Attachment 3. No radioactive materials or removable radioactive contamination were found on the items.

The scrap metal was removed using a fork lift and a flat bed truck. The Reapplication Services Department took the items to the Reapplication Yard, and will determine if there is a use for them at Sandia. However, it is most likely that the items will be sent to a scrap metal recycler.

Photographs of the removal activities are presented in Attachment 4. Further information on the final disposition of the materials may be available through the Reapplication Services Department (7617). Larry Chavez (844-7785) is the contact there.

SNL1057

We would recommend you forward this information, with an explanatory cover letter, to EPA Region VI and NMED. A disk has been provided (as attached) that contains this memo, which may be revised to that end.

c:\cta\vcm\er68vcm.doc

Attachments

Copies to: (w/atchs)
L. Aker, NMED-AIP
J. Gould, DOE/KAO
R. Kern, NMED, Santa Fe, NM
N. Morlock, USEPA, Region VI
MS 1147 W. Cox (7581)
MS 1148 C. Lojek (7585) CaL
MS 1147 EO Records Center (7512) ER/1334 68/COR

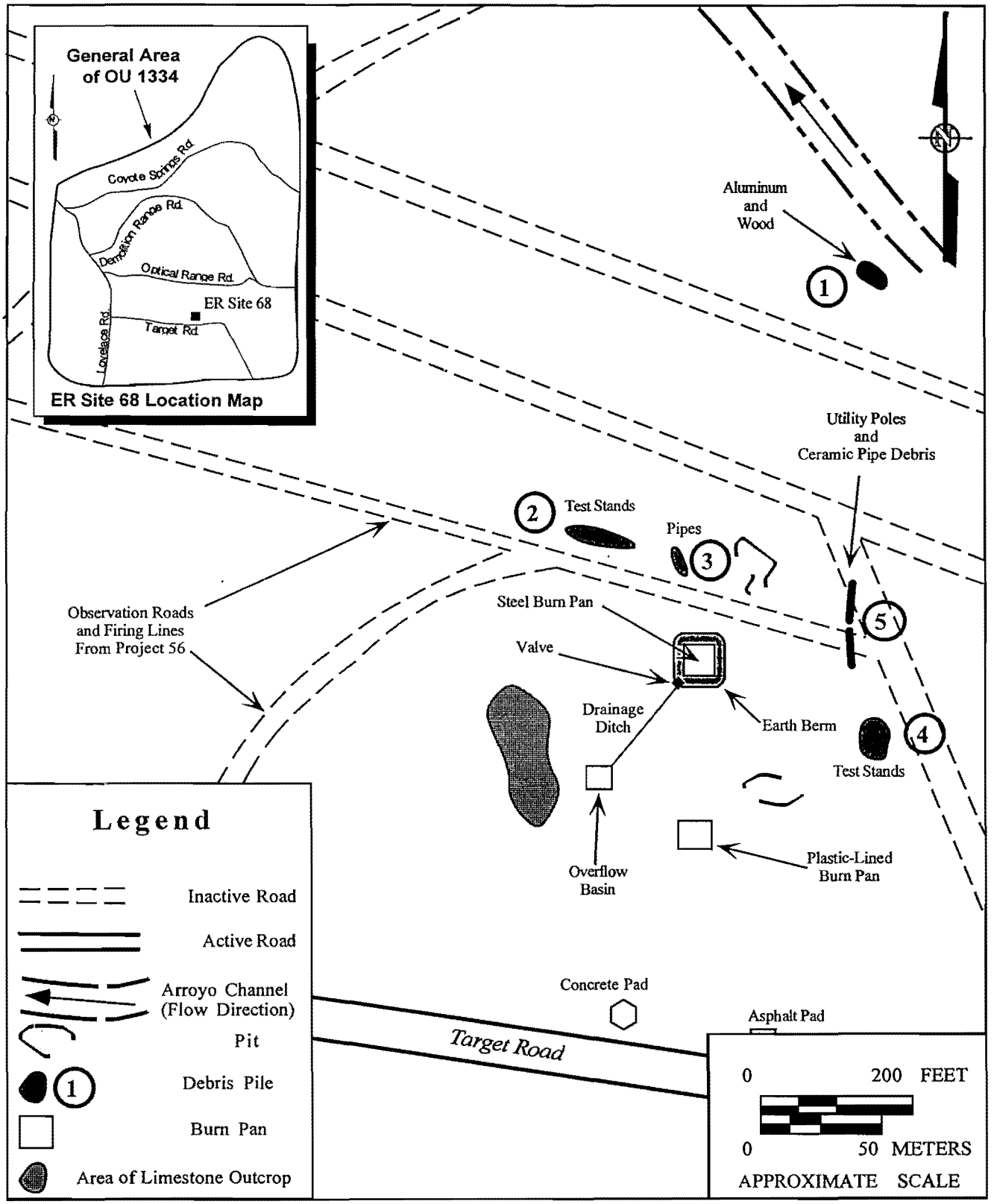

Figure 1
Site Plan of ER Site 68, Showing the Location of Test Stand and Pipe Debris Piles

Attachment 1. Asbestos Sampling Results

Photograph 1. Radiation survey of test stands at Site 68.
Collection of swipe sample for determination of removable radioactive contamination.

Photograph 2. Radiation survey of pipes at Site 68.
Sodium iodide gamma scintillometer survey of pipes.

Log Book # 42

Property of SANDIA NATIONAL LABS
ORG. 7724

Address P.O. BOX 5800
ALBUQUERQUE, N.M. 87122

Telephone ATT: 7724 RECORDS
CENTER 844-8519

Daniel J. Sandhaus
Senior Hydrogeologist

505-262-1871
FAX: 505-268-4954

ON SITE: 505-848-0455
Sandia National Laboratories

Excel Technical and Environmental Services, Inc.
1700 Louisiana Boulevard NE, Suite 210 Albuquerque, New Mexico 87110

INDEX

Dan Sandhaus, ~~7224~~ 7585
ER Dept.
phone: 848-~~0455~~ 0330
Start date: 2/24/93

EMERGENCY PHONE NUMBERS

Effective 10/1/94 use "911" or 844-0911. Following #s still work too

Confined Space Rescue	Dial 144, Cellular #844-0081
Fire	Dial 117, Cellular #844-6333
Security	Dial 144, Cellular #846-0081
Incident Commander	Dial 144, Cellular #844-4189

CONFINED SPACE RULES

* People working in confined spaces must be CS trained.
* Make sure personnel in the area know you're working in the CS.
* Always isolate a CS from hazardous energy with LOTO/disconnect.
* Always provide a safe atmosphere while working in a CS.
* Never attempt rescue by entering a CS.
* Always follow and complete your permit to the letter.

E 26364

1133 Kim Smith (RPO) arrived and frisked out PPE and samples, travel,
1136 exited site rad zone.

1150 left site Dan, Carole & Sharissa
Sharissa took samples ~~[illegible]~~ to XRF lab.
Kim Smith took wipes from sample jars to RPO for Tennelec counting. Will release samples to XRF lab about 1pm today.
Sharissa will keep samples in a bag until they are cleared by RPO

2/2/95 Sampling Potential Asbestos
Dan Sandhaus, Gary Wright (IH). Gary is trained for asbestos sampled.
1310 donned boot covers & entered site

1516 Collected sample 71ASB01
pipe insulation from debris pile NW of burn pan.

2/2/95 -

1525 Collected sample 71ASB02
possible transite material in pile of aluminum slag on south side of arroyo, North of LRAD grid point 1400N, 1200E.

1530 Collected sample 71ASB03
porous ceramic like material, shaped to go around pipes, may be burned/cooked, brittle gray located 20' east of northernmost utility pole lying on ground NE of burn pit

1540 Collected sample 71ASB04
possible transite on east edge of unlined burn pit at Rad anomaly 71E36.

1545 frisked out of site area
waited for RPO to frisk out samples and equipment.
Completed Chain of Custody from 02350

1615 Kim Smith (RPO) arrived to frisk out samples & equipment
Kim did G-M probe frisk of asbestos sample envelopes & tool kit - no rad above background.
We will give samples to him (RPO) for Tennelec counting of swipes from outside of envelopes & sampling tools.

Gary Wright will check w/ asbestos lab. to see if they need further screening of material from our RMMA before they can accept it. (Asagi Lab)
I can pick up survey samples results tomorrow.
Gary will keep samples in a plastic bag while awaiting Kim's results & lab acceptance criteria inquiry.

Daniel J Sandhaus 2/2/95

3/15/95 GPS Survey of NFA Confirmatory Sampling Locations at ER Sites 22 and 70.
Dan Sandhaus and Sinjin Eberle

0900 left office.
Sample locations had been flagged and surveyed w/ compass and tape measure at time of sampling (see pgs 46 and 57 in this notebook). Today we will survey the same points using Global Positioning System (GPS).
- Site 22 has 3 background locations and 3 onsite locations
- Site 70 has 3 BG and 6 onsite locations.

0930 arrived at Site 22.

~~22-001~~ DJ ~~Lat.~~ ~~Long.~~ DJ

Readings will be stored in computer - no Readout in the field
22-001, 22-002, 22-003, 22-004, 22-005, 22-006, completed at 0958
DJ

737

INDUSTRIAL HYGIENE CHEMISTRY LAB SERVICES

Laboratory Services/Chain of Custody Form

SF 2040-NA(6-91)

Page ____ of ____

Submitted By	Org.		Date Submitted
WRIGHT	7712	YOUNG	02/03/95

Lab Log No. Range	Report Date	Analyst
TO	02/07/95	ASSAIGAI

Contaminant	Analytical Method	Instrument Used
ASBESTOS	PLM	Polar. Light

Sample Type: ☐ Air ☐ Water ☐ Soil ☐ Veg. ☐ Oil ☐ Urine ☒ Bulk ☐ Swipe ☐ Misc.

Reference: Employee DAN SANDHAUS Org. 7585 Sample Location: ER SITE 68 (Building/Room or Site)

Analysis Requested: ☐ Qual ☒ Quant ASBESTOS - BULK Priority: ☐ Rush ☒ Usual Due Date: ____

Lab Log No.	Sample Description	Results	Units
A-0295-01	A020295GAW; PIPE INSULATION Ref. 71-ASB-01	None detected	
A-0295-02	B020295GAW; TRANSITE Ref. 71-ASB-02	None detected	
A-0295-03	C020295GAW; (BAKED) PIPE INSULATION; Ref. 71-ASB-03	None detected	
A-0295-04	D020295GAW; TRANSITE Ref. 71-ASB-04	Chrysotile 10-30	%

(Continue entries on additional sheets; attach together.)

Relinquished By: [signature] Date/Time 2/3/95/1045 Received By: K. Greulich Date/Time 2/3/95 10:45 am

Relinquished By: ____ Date/Time ____ Received By: ____ Date/Time ____

Relinquished By: ____ Date/Time ____ Received By: ____ Date/Time ____

Disposal Instructions: ____ Disposal By: ____ Date/Time ____

Approved By: See Assaigai Report Form (Chem. Lab) Date [signature] (Supervisor) 2/7/95

ANALYSIS REQUEST AND CHAIN OF CUSTODY

PAGE 1 OF 1

SF 2001-COC (9-94)

AR/COC- 02350

Dept. No./Mail Stop: 7585 /MS1348
Project/Task Manager: Carole Lojek
Project Name: Asbesto Sampling, ER Site 68
Record Center Code:
Logbook Ref No: #42 pages 60-61
SMO Reference No.:

Date Samples Shipped:
Carrier/Waybill No.:
Lab Contact:
Lab Destination:
SMO Contact/Phone:
Send Report to SMO

Contract No.:
Case No.:
SMO Authorization: [signature]
Bill to: Sandia National Laboratories
Supplier Services Department
P.O. Box 5800 MS 0154
Albuquerque, NM 87185-0154

Location Tech Area Coyote Test Field

Building NA Room NA

Reference LOV (available at SMO)

IH Sample No. - Fraction	ER Sample ID or Sample Location Detail	Beginning Depth in Ft.	ER Site No.	Date/Time Collected	Sample Matrix	Container Type	Container Volume	Preservative	Sample Collection Method	Sample Type	RPO a/P/K Screen	Gamma Spec. Screen	Asbestos - Polarized Light Mic.	Lab Sample ID
020295GAW	71ABS01	0	68	2/2/95 1516	insulation	paper bag	chip	NA	Grab	~~AS~~	✓	✓	✓	
020295GAW	71ABS02	0	68	2/2/95 1525	transite	paper bag	chip	NA	Grab		✓	✓	✓	
020295GAW	71ABS03	0	68	2/2/95 1530	Ceramic	paper bag	chip	NA	Grab		✓	✓	✓	
020295GAW	71ABS04	0	68	2/2/95 1540	transite	paper bag	chip	NA	Grab		✓	✓	✓	
-														LAB
-														
-														
-														
-														
-														

RMMA ☑ Yes ☐ No Ref. No.

Sample Disposal ☑ Return to Client ☐ Disposal by lab

Turnaround Time ☑ Normal ☐ Rush Required Report Date

Sample Tracking SMO USE
Date Entered (mm/dd/yy)
Entered by:
QC Initials

Special Instructions/QC Requirements
Red screen for shipment to offsite lab.

Abnormal Conditions on Receipt
LAB USE

Sample Team Members	Name	Signature	Init	Company/Organization
	Gary Wright	[signature]	GAW	SNL-7712 (TRI)
	Daniel J Sandhaus	[signature]	DJS	SNL 7585 (Excel)

	Org.	Date	Time		Org.	Date	Time
1. Relinquished by				4. Relinquished by			
1. Received by				4. Received by			
2. Relinquished by				5. Relinquished by			
2. Received by				5. Received by			
3. Relinquished by				6. Relinquished by			
3. Received by				6. Received by			

WHITE - To Accompany Samples, Laboratory Copy BLUE- To Accompany Samples, Return to SMO YELLOW- SMO Suspense Copy PINK- Field Copy

10-5620-1

SANDIA NATIONAL LABORATORIES, ALBUQUERQUE

INDUSTRIAL HYGIENE CHEMISTRY LABORATORY

CHAIN-OF-CUSTODY FORM

FOR SAMPLES SHIPPED TO OUTSIDE LABORATORIES

A-0295-01

DATE: 2/3/95

FROM: K.A. Greulich, Sandia Nat'l. Labs
MS 0651/Org. 7711
P.O. Box 5800
Albuquerque, NM 87185-0651

TO: Assaigai Analytical Labs
7300 Jefferson, NE
Albuquerque, NM 87109

PO# AH-2854

QUANTITY	UNIT	ITEM
4	ea	Bulk samples for asbestos identification

These samples were sealed when they left my presence:
Name: Karen A. Greulich
Date/Time: 2/3/95 @ 11:00 am

These samples were sealed and intact when they arrived at this laboratory:
Name: Jeff Mlebush
Laboratory: Assaigai Labs
Date/Time: 2/3/95 @ 11:50 am

PLEASE RETURN THIS FORM TO THE SENDER WITH THE ANALYTICAL RESULTS.

ASSAIGAI ANALYTICAL LABS, INC.
Albuquerque, New Mexico

ASBESTOS ANALYTICAL REQUEST FORM AND CHAIN OF CUSTODY RECORD

A-0295-01

DATE 2/3/95

WORK ORDER NO. BB13167

PURCHASE ORDER NO. AH-2854

CLIENT NAME K.A. Greulich

ADDRESS Sandia National Labs, MS 0651/Org. 7711
P.O. Box 5800, Albuquerque, NM 87185-0651

CONTACT PERSON Karen Greulich TELEPHONE 505-844-3176
844-1551

BILLING ADDRESS

SAMPLE COLLECTION SITE

DATE OF COLLECTION TIME BY WHOM

DATE OF SHIPMENT TO ASSAIGAI 2/3/95

SAMPLE NUMBER	TYPE	SAMPLE VOLUME (LITERS)	CONDITION	ANALYSES REQUESTED
A020295GAW	Bulk			Asbestos identification
B020295GAW	"			"
C020295GAW	"			"
D020295GAW	"			"
		LAST ITEM		

REMARKS: Analysis according to contract

Standard Turnaround

REQUESTED BY Karen Greulich DATE 2/3/95

RECEIVED & LOGGED IN BY Jeff Melbourne DATE 2/3/95

TIME 1:50

ANALYSES COMPLETED BY SW Hazlett DATE 2/6/95

ASSAIGAI ANALYTICAL LABORATORIES

WORK ORDER
BB 13167
A-0295-01

BULK SAMPLES

DATE RECEIVED 2/3/95		ESTIMATED COST
CUSTOMER P.O. NUMBER	TIME RECEIVED 11:50	DUE DATE 2/10/95

ACCOUNT INFORMATION

CUSTOMER'S NAME SNL	CONTACT Karen Grenlich
ADDRESS	PHONE NUMBER
	FAX NUMBER
CITY / STATE / ZIP	MOBILE / PAGER NUMBER

PARTY RESPONSIBLE FOR PAYMENT IF OTHER THAN ABOVE

NAME	CONTACT	PAYMENT REC'D.
ADDRESS	PHONE NUMBER	OPEN ACCOUNT ✓
CITY / STATE / ZIP	FAX NUMBER	CASH
SPECIAL BILLING INSTRUCTIONS		CHECK NUMBER

ACCOUNT STATUS

SAMPLE INFORMATION

TYPE OF SAMPLE	NO. OF CASSETTES (samples)	*TURN AROUND TIME	SAMPLE IDENTIFICATION AND / OR SAMPLE SITE
☑ BULK (PLM) ☐ SOIL (PLM) ☐ CONCRETE ☐ OTHER	4	☐ PRIORITY 1 (2 HRS) ☐ PRIORITY 2 (24 HRS) ☐ PRIORITY 3 (3 WKG DAYS) ☑ PRIORITY 4 (5-10 WKG DAYS) *(SUBJECT TO WORK LOAD)	Coyote Test Field

SAMPLE DELIVERED BY [signature] SIGNATURE DATE 02/03/95

ANALYSIS REQUEST

WORK DESCRIPTION

BILLING: ☐ PICKUP ☐ MAIL

LOGGED IN BY [signature]

9012 Washington NE • Albuquerque, New Mexico 87113 • (505) 822-8061 • FAX (505) 822-8063

CUSTOMER

ASSAIGAI
ANALYTICAL LABORATORIES, INC. • 7300 Jefferson, N.E. • Albuquerque, New Mexico 87109
3332 Wedgewood, Suite E-5 • El Paso, Texas 79925

To: Sandia National Laboratories
Attn: Karen Greulich
MS 0651/Org. 7711
P.O. Box 5800
Albuquerque, NM 87185-0651

Date: 06 February 1995
Work Order No. BB13167
Bulk Asbestos Analysis
No. of Analyses: 04
No. of Samples: 04

Methods: EPA Interim Method of the Determination of Asbestos in Bulk Insulation Samples (EPA-600/M4-82-020) and as cited in 40 CFR Part 763, Subp. F, Appendix A, Section 1, comparing the quantity of non-asbestos material to asbestos fibers. The EPA Preferred Method is the Determination of Asbestos in Bulk Building Materials (EPA-600/R-93/116 July 1993). Detection Limit: 1% of the portion of the sample examined.

Sample Site: Coyote Test Field

SAMPLE ID.	DESCRIPTION	ASBESTOS TYPE	% ASBESTOS	OTHER FIBERS	% CONTENT	MATRIX
A020295GAW	Gray Insulation	NAD	-----	Glass	> 75	Clay
B020295GAW	Black Hardboard	NAD	-----	Brucite	1 - 5	Clay, Opaques
C020295GAW	Gray Insulation	NAD	-----	Glass	50 - 75	Clay
D020295GAW	Gray Transite	Chrysotile	10 - 30	None	-----	Clay

NAD = NO ASBESTOS DETECTED

Analyst - George W. Hazlett J. Mlekush for

These results relate only to the above samples as submitted unless otherwise noted. We appreciate the opportunity to perform analytical work for you. If you have any questions, please call.

Respectfully submitted,

Marian C. Wrage
Marian C. Wrage
Asbestos Laboratory Manager

A-0255-01

Member: American Council of Independent Laboratories, Inc.

THIS REPORT MUST NOT BE USED IN ANY MANNER BY THE CLIENT OR ANY OTHER THIRD PARTY TO CLAIM PRODUCT ENDORSEMENT BY THE NATIONAL LABORATORY VOLUNTARY ACCREDITATION PROGRAM OR ANY OTHER AGENCY OF THE UNITED STATES GOVERNMENT.

NVLAP

Attachment 2. Inventory of Scrap Metal Items that were removed from Site 68

Photograph 3. Radiation survey of test stands at Site 68.
Geiger-Müller beta/gamma survey of test stands.

Photograph 4. Test stands with green tags indicating that they have been surveyed for radiation and are released for removal from the RMMA as non-radioactive materials.

No.	*Inventory I.D.*	*Description*	*Approx. Weight (lbs)*
1	68-TS-01	Metal tripod	100
2	68-TS02	Metal tripod	100
3	68-TS03	Small rectangular steel test stand	100
4	68-TS04	Scrap metal piece	30
5	68-TS05	Scrap metal piece	20
6	68-TS06	Small scrap metal piece	20
7	68-P01	Metal pipe	10
8	68-TS07	Flat metal plate	10
9	68-TS08	Flat metal plate	10
10	68-TS09	Large rectangular metal test stand	500
11	68-TS10	Flat base with 2-foot pole	30
12	68-TS11	Small metal wire basket with scrap wire	5
13	68-TS12	Rectangular steel test stand	400
14	68-TS13	Rectangular steel test stand	400
15	68-TS14	Rectangular steel test stand	200
16	68-TS15	Rectangular steel test stand	200
17	68-TS16	Rectangular steel test stand	200
18	68-TS17	Rectangular steel test stand	200
19	68-TS18	Rectangular steel test stand	200
20	68-TS19	Rectangular steel test stand	200
21	68-TS20	Rectangular steel test stand	200
22	68-TS21	Rectangular steel test stand	200
23	68-TS22	Rectangular steel test stand	200
24	68-TS23	Rectangular steel test stand	200
25	68-TS24	Rectangular steel test stand	200
26	68-P02	Steel pipe, 2-inch diameter, 20-feet long	30
27	68-P03	Steel pipe, 2-inch diameter, 20-feet long	30
28	68-P04	Steel pipe, 3-inch diameter, 5-feet long	10
29	68-P05	Steel pipe, 1.5-inch diameter, 20-feet long	25
30	68-P06	Steel pipe, 1.5-inch diameter, 20-feet long	25
31	68-P07	Steel pipe, 1.5-inch diameter, 20-feet long, with cross bar	30
32	68-P08	Steel pipe, 1.5-inch diameter, 20-feet long	25

No.	*Inventory I.D.*	*Description*	*Approx. Weight (lbs)*
33	68-P09	Steel pipe, 1.5-inch diameter, 20-feet long, with cross bar	30
34	68-P10	Steel pipe, 1.5-inch diameter, 20-feet long	25
35	69-P11	Steel pipe, 1.5-inch diameter, 20-feet long, with cross bar	30
36	68-M01	Scrap metal wire mesh, approximately 5 pieces	20
37	68-P12	Steel pipe, 2.5-inch diameter, 5-feet long	30
38	68-MO2	Scrap metal sheet, 2-feet long by 2-inches wide	20
39	68-P13	Steel pipe, 0.25-inch diameter, 5-feet long	10

Attachment 3. Radiation Survey Results

Photograph 5. Picking up test stand scrap metal at Site 68.

Photograph 6. Picking up test stand scrap metal at Site 68.

Copy

RADIOLOGICAL SURVEY FORM

Survey Number: 3951040

Location	Requester/Dept.	Date	Time	Duration
ER Site 68	D. Sandhaus / 7585	10-9-95	1530	N/A

Purpose	Request #	RWP #
Release scrap metal	N/A	N/A

Instrument and Probe Type and Serial Number		Surveyor(s) Printed Name	Surveyor(s) Signature
ASP-1 w/ HP260 # 2635	Bicron µR # B975D	A. Bohacheff	[signature]
	N		
	A		

#	Item Description/Location	BETA-GAMMA CONTAMINATION Counting Data Attached (Yes) No % Eff. 20% /Isotope Default cpm	Bkg. cpm	dpm/100 cm² (1)	(2) T/R	ALPHA CONTAMINATION Counting Data Attached (Yes) No % Eff. N/A /Isotope N/A cpm	Bkg. cpm	dpm/100 cm² (1)	(2) T/R	RADIATION SURVEY Bkg. <0.02 mrem/hr (3)	Distance
1	Test stand 68TS-01	80	80	ND	T					<0.02	contact
2	68TS-02										
3	68TS-03										
4	68TS-04										
5	68TS-05										
6	68TS-06						N				
7	68TS-07							A			
8	68TS-08										
9	68TS-09										
10	68TS-10										
11	68TS-11										
12	Test stand 68TS-12	80	80	ND	T					<0.02	contact

Note (1): If area other than 100 cm², record as dpm/probe, or dpm/LAW. Note (2): Total/Removable. Note (3): Indicate type, if other than gamma (i.e. n or β).

Remarks:

Reviewed by:

RPOP-008.a
ver 940809

Copy

RADIOLOGICAL SURVEY FORM CONTINUATION

Survey Number: 2951040

Location: ER Site 68 | Purpose: Release scrap metal | Date: 10-9-95

#	Item Description	BETA-GAMMA CONTAMINATION Counting Data Attached (Yes) No; % Eff. 20 /Isotope Default: cpm	Bkg. cpm	dpm/100 cm² (1)	(2) T/R	ALPHA CONTAMINATION Counting Data Attached (Yes) No; % Eff. N/A /Isotope N/A: cpm	Bkg. cpm	dpm/100 cm² (1)	(2) T/R	RADIATION SURVEY Bkg. <0.02: mrem/hr (3)	Distance
13	Test stand 68TS-13	80	80	ND	T					<0.02	contact
14	68TS-14										
15	68TS-15										
16	68TS-16										
17	68TS-17										
18	68TS-18										
19	68TS-19										
20	68TS-20										
21	68TS-21										
22	68TS-22										
23	68TS-23						ND				
24	Test stand 68TS-24							A			
25	Pipe 68P01										
26	68P-02										
27	68P-03										
28	68P-04										
29	68P-05										
30	68P-06										
31	68P-07										
32	68P-08										
33	68P-09										
34	pipe 68P-10	80	80	ND	T					<0.02	contact

RPOP-009.a
ver 940809

Copy

RADIOLOGICAL SURVEY FORM CONTINUATION

Survey Number: 395 1040

Location: EA Site 68 | Purpose: Release scrap metal | Date: 10-4-95

#	Item Description	BETA-GAMMA CONTAMINATION Counting Data Attached (Yes) No % Eff. 20 /Isotope Default				ALPHA CONTAMINATION Counting Data Attached (Yes) No % Eff. N/A /Isotope N/A				RADIATION SURVEY Bkg. <0.02	
		cpm	Bkg. cpm	dpm / 100 cm² (1)	(2) T/R	cpm	Bkg. cpm	dpm / 100 cm² (1)	(2) T/R	mrem/hr (3)	Distance
35	pipe 68 P11	80	80	ND	T					<0.02	contact
36	pipe 68 P12	↓	↓	↓	↓		N			↓	↓
37	mesh 68 M01	↓	↓	↓	↓			A		↓	↓
38	metal strip 68 M02	80	80	ND	T					<0.02	contact
					N						
					A						

RPOP-009.a
ver 940809

Survey No. 3857040

Radiation Protection Sample Diagnostics (7715) Area III Bldg. 6600
Smear Analysis

Date: 10/10/95
Counting Unit id: 1 (SNL# S674564)
Data file name: C:\LBXL\UNIT1\53080903.XLD
Batch Ended: 10/9/95 17:04
Crosstalk Correction: Applied
ANALYZED BY
REVIEWED BY _____

Alpha activity action level (DPM): 20.00
Beta activity action level (DPM): 1000.00
Certainty level for MDA and flags: 95.00%
High Voltage Setting: 1372.5
Application Revision: 3
Application Version: Standard

Alpha efficiency log file: pu238ab
Alpha Efficiency: 42.92%
Alpha to Beta Crosstalk: 10.68%
Alpha Background (CPM): 0.35
Alpha Correction Factor: 1.000
Beta efficiency log file: cl36ab
Beta Efficiency: 54.77%
Beta into Alpha Crosstalk: 1.14%
Beta Background (CPM): 3.1
Beta Correction Factor: 1.000

Batch ID: BOHACHEFF - ER SITE 68 SCRAP METAL

	Alpha Activity				Beta Activity				count	Alpha	Beta	Time
ID	DPM	σ	flags	MDA	DPM	σ	flags	MDA	Time	CPM	CPM	Complt
1	4.22	3.78	<AL	12.19	5.00	4.59	<MDA	16.24	1.00	1.65	2.90	16:21
2	-0.97	2.71	<MDA	12.07	3.59	4.20	<MDA	15.85	1.00	-0.35	1.90	16:22
3	-0.97	2.71	<MDA	12.07	3.59	4.20	<MDA	15.85	1.00	-0.35	1.90	16:23
4	1.79	2.65	<MDA	11.25	-5.88	1.99	<MDA	16.06	1.00	0.65	-3.10	16:25
5	-0.94	2.70	<MDA	11.92	1.74	3.77	<MDA	15.85	1.00	-0.35	0.90	16:26
6	-0.88	2.67	<MDA	11.61	-1.96	2.72	<MDA	15.85	1.00	-0.35	-1.10	16:27
7	1.67	2.70	<MDA	11.90	1.52	3.77	<MDA	16.05	1.00	0.65	0.90	16:28
8	-0.97	2.71	<MDA	12.07	3.59	4.20	<MDA	15.85	1.00	-0.35	1.90	16:29
9	6.80	4.60	<AL	12.31	6.63	4.95	<AL	16.44	1.00	2.65	3.90	16:30
10	1.70	2.68	<MDA	11.75	-0.33	3.29	<MDA	16.05	1.00	0.65	-0.10	16:32
11	-0.91	2.68	<MDA	11.77	-0.11	3.29	<MDA	15.85	1.00	-0.35	-0.10	16:33
12	-0.88	2.67	<MDA	11.61	-1.96	2.72	<MDA	15.85	1.00	-0.35	-1.10	16:34
13	-0.88	2.67	<MDA	11.61	-1.96	2.72	<MDA	15.85	1.00	-0.35	-1.10	16:35
14	4.37	3.72	<AL	11.40	-4.25	1.99	<MDA	16.25	1.00	1.65	-2.10	16:36
15	-1.03	2.74	<MDA	12.36	7.29	4.95	<AL	15.84	1.00	-0.35	3.90	16:37
16	1.61	2.73	<MDA	12.20	5.22	4.59	<MDA	16.05	1.00	0.65	2.90	16:39
17	-0.91	2.68	<MDA	11.77	-0.11	3.29	<MDA	15.85	1.00	-0.35	-0.10	16:40
18	1.64	2.71	<MDA	12.06	3.37	4.20	<MDA	16.05	1.00	0.65	1.90	16:41
19	-0.88	2.67	<MDA	11.61	-1.96	2.72	<MDA	15.85	1.00	-0.35	-1.10	16:42
20	-1.03	2.74	<MDA	12.36	7.29	4.95	<AL	15.84	1.00	-0.35	3.90	16:43
21	-0.82	2.65	<MDA	11.27	-5.66	1.99	<MDA	15.86	1.00	-0.35	-3.10	16:44
22	-1.00	2.73	<MDA	12.22	5.44	4.59	<MDA	15.84	1.00	-0.35	2.90	16:45
23	-1.00	2.73	<MDA	12.22	5.44	4.59	<MDA	15.84	1.00	-0.35	2.90	16:47
24	-1.03	2.74	<MDA	12.36	7.29	4.95	<AL	15.84	1.00	-0.35	3.90	16:48
25	-0.94	2.70	<MDA	11.92	1.74	3.77	<MDA	15.85	1.00	-0.35	0.90	16:49
26	-0.85	2.65	<MDA	11.44	-3.81	1.99	<MDA	15.86	1.00	-0.35	-2.10	16:50
27	1.76	2.65	<MDA	11.42	-4.03	1.99	<MDA	16.06	1.00	0.65	-2.10	16:51
28	-0.94	2.70	<MDA	11.92	1.74	3.77	<MDA	15.85	1.00	-0.35	0.90	16:53
29	-0.88	2.67	<MDA	11.61	-1.96	2.72	<MDA	15.85	1.00	-0.35	-1.10	16:54
30	-0.88	2.67	<MDA	11.61	-1.96	2.72	<MDA	15.85	1.00	-0.35	-1.10	16:55
31	1.73	2.67	<MDA	11.59	-2.18	2.72	<MDA	16.05	1.00	0.65	-1.10	16:56
32	-0.85	2.65	<MDA	11.44	-3.81	1.99	<MDA	15.86	1.00	-0.35	-2.10	16:57
33	1.70	2.68	<MDA	11.75	-0.33	3.29	<MDA	16.05	1.00	0.65	-0.10	16:58
34	1.73	2.67	<MDA	11.59	-2.18	2.72	<MDA	16.05	1.00	0.65	-1.10	16:59
35	1.61	2.73	<MDA	12.20	5.22	4.59	<MDA	16.05	1.00	0.65	2.90	17:01

Copy

Survey No. 355 1040

Radiation Protection Sample Diagnostics (7715) Area III Bldg. 6600
Smear Analysis

Date: 10/10/95
Counting Unit id: 1 (SNL# S674564)
Data file name: C:\LBXL\UNIT1\53080903.XLD
Batch Ended: 10/9/95 17:04
Crosstalk Correction: Applied
ANALYZED BY
REVIEWED BY
Batch ID: BOHACHEFF - ER SITE 68 SCRAP METAL

Alpha activity action level (DPM): 20.00
Beta activity action level (DPM): 1000.00
Certainty level for MDA and flags: 95.00%
High Voltage Setting: 1372.5
Application Revision: 3
Application Version: Standard

Alpha efficiency log file: pu238ab
Alpha Efficiency: 42.92%
Alpha to Beta Crosstalk: 10.68%
Alpha Background (CPM): 0.35
Alpha Correction Factor: 1.000
Beta efficiency log file: cl36ab
Beta Efficiency: 54.77%
Beta into Alpha Crosstalk: 1.14%
Beta Background (CPM): 3.1
Beta Correction Factor: 1.000

	Alpha Activity				Beta Activity				count	Alpha	Beta	Time
ID	DPM	σ	flags	MDA	DPM	σ	flags	MDA	Time	CPM	CPM	Complt
36	-1.03	2.74	<MDA	12.36	7.29	4.95	<AL	15.84	1.00	-0.35	3.90	17:02
37	1.70	2.68	<MDA	11.75	-0.33	3.29	<MDA	16.05	1.00	0.65	-0.10	17:03
38	1.67	2.70	<MDA	11.90	1.52	3.77	<MDA	16.05	1.00	0.65	0.90	17:04

Copy

Steel burn pan - at least a week's work
Loader, dump truck, torch would
be needed.

Pipes 2" & 2 1/2" & 1 1/4" diameter
20' sections
Cut up for scrap.
Cutting can be done on site -
have a water truck or fire truck
in case a brush fire starts.

More Test Stands.
Stands are welded and cannot
be broken down without cutting.

Reapplication - contact Larry Chavez
844 - 7785

Post-it™ Fax Note 7671	Date 10/5/95	# of pages ▶ 3
To Hans	From Dan Sandhaus	
Co./Dept. RPO	Co. ER	
Phone # 845-3271	Phone # 284-2479	
Fax # 845-3375	Fax # 284-2617	

Inventory of Items to Remove
from Site 68

~~Site 68~~ 9/14/95

Arrive 1400

Lee Brouillard - notes

Dan Sandhaus - label materials
Debris Mound

Item No.	Description
68-TS01	Metal tripod (100 lbs)
68-TS02	Metal tripod (100 lbs)
68-TS03	Small rectangular Steel test stand (~100 lbs)
68-TS04	Scrap metal piece (30 lbs)
68-TS05	Scrap metal piece (~20 lbs)
68-TS06	Small scrap metal piece (~20 lbs)
68-P01	Metal pipe (10 lbs)
68-TS07	Metal test stand flat plate
68-TS08	Metal test stand flat plate
68-TS09	Large rectangular Steel test stand (~500 lbs)

Site 68 9/14/95

Item No.	Description
68 - TS10	Flat base with ~2 ft pipe attached.
68 - TS11	Small metal basket-like sump
68 - TS12	rectangular steel test stand (~400 lbs)
68 - TS13	rectangular steel test stand (~400 lbs)
	Debris Mound
68 - TS14	rectangular steel (200 lbs) test stand
68 - TS15	rectangular steel (200 lbs) test stand

Site 68. 9/14/95

Item No.	Description
68 - TS16	Small rectangular steel test stand (300 lbs)
68 - TS17	Same as above
68 - TS18	Same above
68 - TS19	Same as above
68 - TS20	Same as above
68 - TS21	Same as above
68 - TS22	Same as above
68 - TS23	Same as above
68 - TS24	Small rectangular steel test stand pipe frame (~200 lbs)
	Debris Mound
68 - P02	Steel pipe 2" dia with fiberglass insulation ~20 ft long
68 P03	Same as above
68 - P04	5 ft length 3" dia steel pipe
68 - P04	1.5" dia, 20 ft length with fiberglass insulation

102

Site 68 8/14/95

Item No.	Description
68-P05	Same as above
68-P06	Same as above with cross-bar
68-P07	Same as above
68-P08	Same as above with cross bar
68-P09	Same as above
68-P10	Same as above with cross bar
68-M01	Scrap wire mesh

#33 Frosted cart using sugar-muffin pancake plate. Lane Site

68 P11 pipe
68 P12 pipe
68-M02 metal strip

Attachment 4. Photographs of the Removal Activities

Photograph 7. Loading test stand scrap metal on flat bed truck.

Photograph 8 Test stand scrap metal secured to flat bed truck.