

\*CORRES. CONTROL

OUTGOING LTR. NO.

DOE ORDER # 4700.1

**02-RF-01898**



KAISER HILL  
COMPANY

DIST.	LTR	ENC
BRILSFORD, M.D.		
FERRERA, D.W.		
FERRI, M.S.		
MARTINEZ, L. A.		
PARKER, A.		
POWERS, K.		
SCOTT, G.K.		
SHELTON, D.C.		
SPEARS, M.S.		
TRICE, K.D.		
TUOR, N. R.		

AGUILAR, P.		
ALBIN, C.		
AUBLE, M.		
BEAN, C.		
BUTLER, J. L.		
CERCLA AR (T130G)	X	X
CLARK, D.		

DIETERLE, S.		
DORR, K.		
FRANCIS, M.		
FREIBOTH, C.		
GIBBS, F.	X	X

GUTHRIE, V.		
HUMSTON, T.		
KEHLER, K.		
KNAPP, S.		
KONWINSKI, G.		
MARSCHALL, J.R.		
MARTIN, D.		

MYERS, K.	X	X
NESTA, S.	X	X
NORTH, K.		
OLIVER, R.		
OMAN, K.		

PRIMROSE, A.		
ROSENMAN, A.		
SNYDER, D.P.		
RICHARDSELLA, R.	X	X

CORRES.CONTROL	X	X
ADMIN RECRD/080		
TRAFFIC		
PATS/130		

CLASSIFICATION:		
UCNI		
UNCLASSIFIED	X	X
CONFIDENTIAL		
SECRET		

AUTHORIZED CLASSIFIER SIGNATURE:

Date:  
IN REPLY TO RFP CC NO.:

ACTION ITEM STATUS:  
 PARTIAL/OPEN  
 CLOSED

LTR APPROVALS:

ORIG. & TYPIST INITIALS:  
SMN:pvt

AUG 23 2002

02-RF-01898

Steve Tower  
D&D Program Lead  
DOE, RFFO

TRANSMITTAL OF CLOSE-OUT REPORTS - FEG-018-02

Attached is the Closeout Report for the Type 1 facility 560. Please note that a copy of this report has been submitted to the CERCLA AR by the Kaiser-Hill RISS project.

Please contact Steve Nesta x6386 with questions or concerns.

*Frank E. Gibbs*  
Frank E. Gibbs  
Deputy Project Manager  
Remediation, Industrial D&D, and Site Services

Attachment:  
As Stated

KLM:pvt

Org. and 1 cc - Steve Tower

cc:  
Joe Legare



Kaiser Hill Company, L.L.C.

Rocky Flats Environmental Technology Site, 10808 Hwy. 93 Unit B, Golden CO 80403-8200 • 303-966-7000

ADMIN RECORD

IA-A-001058

1/16

# Type 1 Facility Closeout Report

<b>Section A. Facility Data</b>	
Facility No.	Building 560
Facility Descriptor:	Cooling Tower
Project:	RISS: B559 Area 7
Date of Demolition:	10/01
Additional Information:	Type 1 Facility, No environmental releases occurred, Concrete basin & buried piping left in place and will be removed along with B563 demolition
<i>(Must include information on environmental releases and conditions of site at turnover to Environmental Restoration)</i>	

<b>Section B. Final Characterization Data</b>	
Reconnaissance Level Characterization Report <i>(concurrence received)</i>	RLCR approval letter dated 11/14/01
In-process Characterization	Release Evaluation Form #s 011108-00559-001, -002, -003
Pre-Demolition Survey Report <i>(approval received)</i>	N/A Type 1 facility
Post-Demolition Survey Report <i>(as necessary)</i>	N/A Type 1 facility

<b>Section C. Waste Data <i>(complete categories as appropriate)</i></b>	
<u>Sanitary Disposal</u>	
Demolition debris (wood, metal, fiberglass and concrete)	
Disposal Site:	Front Range Landfill, Erie, CO
Waste Volume (m <sup>3</sup> ):	Approximately 60 yd <sup>3</sup>
Waste Weight (tons):	Not Available
Additional Information:	
<u>Hazardous Disposal</u>	
Disposal Site:	N/A
Waste Volume (m <sup>3</sup> ):	
Additional Information:	
<u>TSCA Waste Disposal</u>	
Disposal Site:	N/A
Waste Volume (m <sup>3</sup> ):	
Additional Information:	
<u>Asbestos Waste Disposal</u>	
Disposal Site:	Demolition debris consisting of friable asbestos TRS: Building 706 – Roll-off #C1014
Waste Volume (m <sup>3</sup> ):	Approximately 1 yd <sup>3</sup> – Also, 20 yd <sup>3</sup> non-friable to Front Range Landfill Erie, CO
Additional Information:	
<u>Low-Level Waste Disposal</u>	
Disposal Site:	N/A
Waste Volume (m <sup>3</sup> ):	
Additional Information:	
<u>Low-Level Mixed Waste Disposal</u>	
Disposal Site:	N/A
Waste Volume (m <sup>3</sup> ):	
Additional Information:	
<u>Recycled Material</u>	
Recycle Facility:	N/A
Waste Volume (m <sup>3</sup> ):	
Additional Information:	
<u>Property Disposition</u>	
Receiver Locations <i>(major items only)</i> :	N/A
Volume (m <sup>3</sup> ):	
Weight (tons):	
Additional Information:	

2

# Type 1 Facility Closeout Report

## Section D. Approvals

Kaiser-Hill Project Manager

*M.H. Aebler* *[Signature]*

8/21/02

Name/Signature

Date

# RELEASE EVALUATION FORM

# COPY

Page 1 of 2

Release Evaluation No.: 011108-00559-001 EXTENDED: No EXPIRES: N/A Charge No.: EFD42CTD

## PART I SENDER/CUSTODIAN ACKNOWLEDGEMENT

Description of Property/Waste/Sample To Be Released/Transferred: Approximately 60 yd<sup>3</sup> of demolition debris that consists of wood, metal, fiberglass, and concrete.

Current Location: Building 560

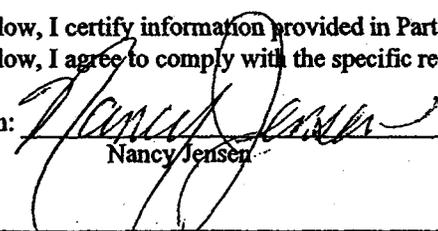
Destination: Front Range Landfill; Erie, Colorado

New Recipient/Custodian: Initially, Linda Golden at extension 5554. Ultimately, Republic Services of Colorado; Front Range Landfill Erie, Colorado.

History/Process Knowledge: The demolition debris consists of wood, metal, fiberglass, and concrete. The subject demolition debris is from the demolition of the B560 cooling tower. B560 is the non-functional cooling tower associated with the B559 cluster. Furthermore, B560 has never been included in the B559 RBA/CA.

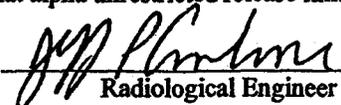
Has the specified material ever been in an RBA/CA or contacted DOE controlled radioactive materials? No

- 1) By signing below, I certify information provided in Part I of this release evaluation to be true and accurate.
- 2) By signing below, I agree to comply with the specific requirements noted in Part II of this release evaluation.

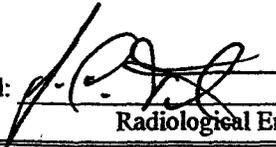
Sender/Custodian:  Emp. No. [REDACTED] Date: 11/8/01 Ext: 4161  
Nancy Jensen

## PART II RADIOLOGICAL ENGINEERING

**SPECIFIC REQUIREMENTS AND/OR COMMENTS:** Based on the cooling tower's (B560) process history, the likelihood of DOE enhanced radioactive material being present within the subject demolition debris is extremely remote. In addition, B560 was never a part of the B559 CA/RBA. Past and present B560 surveys indicate no history of surface contamination. However, additional alpha surveys are required as part of the demolition and disposal process. A minimum of fifteen total surface activity (TSA) and fifteen removable surface activity measurements for alpha contamination will be performed. In addition, fifteen 1 m<sup>2</sup> alpha scans will be performed around each of the above mentioned survey locations. These fifteen survey locations will be on the interior portions of B560. Therefore, the subject demolition debris can be released to the Front Range Landfill in Erie, Colorado provided that alpha unrestricted release limits, as described in the RFETS RCM, Appendix 2-2, are not exceeded.

Evaluated:  Emp. No. [REDACTED] Date: 11-8-01 Ext: 3370  
Radiological Engineer

### APPROVAL FOR TRANSFER/SHIPMENT

Approved:  Emp. No. [REDACTED] Date: 11-20-01 Ext: 5025  
Radiological Engineer

# PROPERTY/WASTE RELEASE EVALUATION SIGNATURE REQUIREMENTS

Release Evaluation #: 011108-00559-001 Page 2 of 2

COPY

## Release Evaluation for Waste:

A Release Evaluation for Waste requires an evaluation and unrestricted release approval signature. The evaluation signature is by the Radiological Engineer (RE) providing the methods or criteria for unrestricted release (i.e., survey requirements, analytical requirements, no survey required, etc.). The unrestricted release approval signature for a Release Evaluation for Waste shall be a RE authorized to provide unrestricted release approval. In addition, the evaluation and unrestricted release approval signatures shall not be the same RE. The intent of this provision is to provide peer review of the evaluation and method of unrestricted release. It is important the RE take the peer review process seriously and not become a "rubber stamp" for their fellow engineer.

## Release Evaluation for Property:

A Release Evaluation for Property requires an evaluation and unrestricted release approval signature. For a Release Evaluation for Property, the evaluation and unrestricted release signature may be the same RE. In the past, only one signature was required for property for which a RE could provide an unrestricted release on the basis of process knowledge/history.

## Release Evaluation for Samples:

Samples are any waste or material that is being shipped to an off-site facility for analysis. Samples that may be provided with an unrestricted release using process knowledge/history or standard contamination survey techniques may be authorized for shipment to an off-site facility using the signatory requirements specified for property. Samples which cannot be provided with an unrestricted release using process knowledge/history or standard contamination survey techniques shall be authorized for shipment from the Site using the methodology specified for waste, i.e., second signature being provided by a RE authorized to perform peer review and approval for shipment.

The approval for transfer/shipment section of a Sample Release Evaluation (SRE) shall be revised as noted below for samples which cannot be provide with an unrestricted release.

*"The samples specified in Part 1 of this release evaluation are being provided with authorization for transport as non-radioactive materials in accordance with Department of Transportation (49 CFR) regulation. This authorization for shipment does not constitute an unrestricted release."*

## Additional Documentation:

Number of lines per section may be modified or additional pages attached to ensure adequate documentation of information necessary to perform release evaluation.

Additional pages or attachments to a release evaluation shall have the evaluation number, Page \_\_\_ of \_\_\_, initials of Radiological Engineer signing approval for transfer/shipment and date.

**ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE**

**INSTRUMENT DATA**

Survey Type: **ALPHA / BETA**

Building: **559**

Location: **ROOM 102 SOP**

Purpose: **PROPERTY RELEASE SURVEY**

RWP # **01-559-5012**

Date: **11-28-01** Time: **1300**

RCT: **P. Waring** / **P. Waring**  
 Print Name Signature

RCT: **C. Meaney** / **C. Meaney**  
 Print Name Signature

MFG. <b>EBERLINE</b>	MFG. <b>EBERLINE</b>	MFG. <b>EBERLINE</b>
MODEL <b>SAC-4</b>	MODEL <b>SAC-4</b>	MODEL <b>SAC-4</b>
SERIAL # <b>896</b>	SERIAL # <b>962</b>	SERIAL # <b>1130</b>
CAL DUE <b>12-1-02</b>	CAL DUE <b>12-1-01</b>	CAL DUE <b>1-9-02</b>
BKG. <b>0.3</b> cpm	BKG. <b>0.5</b> cpm	BKG. <b>0.6</b> cpm
EFFICIENCY <b>33%</b>	EFFICIENCY <b>33%</b>	EFFICIENCY <b>33%</b>
MDA <b>20</b> dpm	MDA <b>20</b> dpm	MDA <b>20</b> dpm
MFG. <b>EBERLINE</b>	MFG. <b>NE TECH</b>	MFG. <b>NE TECH</b>
MODEL <b>BC-4</b>	MODEL <b>ELECTRA</b>	MODEL <b>ELECTRA</b>
SERIAL # <b>N/A</b>	SERIAL # <b>N/A</b>	SERIAL # <b>2143</b>
CAL DUE <b>N/A</b>	CAL DUE <b>N/A</b>	CAL DUE <b>2-10-02</b>
BKG. <b>N/A</b> cpm	BKG. <b>N/A</b> cpm	BKG. <b>3.0</b> cpm
EFFICIENCY <b>25%</b>	EFFICIENCY <b>33%</b>	EFFICIENCY <b>17%</b>
MDA <b>200</b> dpm	MDA <b>455</b> dpm	MDA <b>94</b> dpm

PRN(REN) #: **011108-00559-001**

Comments: **Scan of all pieces < 94 dpm alpha**

**SURVEY RESULTS (dpm/100cm2)**

SWIPE #	LOCATION / DESCRIPTION	REMOVEABLE		TOTAL	
		ALPHA	BETA / GAMMA	ALPHA FRISK/90 SECOND COUNT	BETA / GAMMA
1	Fiberglass tank	<20	N/A	<94	N/A
2	" "	<20		<94	
3	" "	<20		<94	
4	" "	<20		<94	
5	" "	<20		<94	
6	Wood supports	<20		<94	
7	Wood " "	<20		<94	
8	Wood " "	<20		<94	
9	Wood " "	<20		<94	
10	Wood " "	<20		<94	
11	Wood floor	<20		<94	
12	Wood supports	<20		<94	
13	Wood " "	<20		<94	
14	Wood " "	<20		<94	
15	Wood floor	<20		<94	
N/A	N/A	N/A		N/A	
N/A	N/A	N/A		N/A	
N/A	N/A	N/A		N/A	
N/A	N/A	N/A		N/A	

**COPY**

PRE 011108-00559-001; ATTACHMENT 1; Page 158 of 204 11/28/01

Date Reviewed: **11/28/01** RS Supervision: **PJ Tschida**  
 Print Name

**[Signature]**  
 Signature





Property



Waste



Sample

## RELEASE EVALUATION FORM

COPY

Page 1 of 2

Release Evaluation No.: 011108-00559-002 EXTENDED: No EXPIRES: N/A Charge No.: EFD42CTD

## PART I SENDER/CUSTODIAN ACKNOWLEDGEMENT

Description of Property/Waste/Sample To Be Released/Transferred: Approximately 20 yd<sup>3</sup> of Transite panels and other associated non-friable asbestos containing demolition debris.

Current Location: Building 560

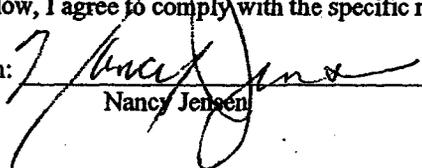
Destination: Front Range Landfill; Erie, Colorado

New Recipient/Custodian: Initially, Linda Golden at extension 5554. Ultimately, Republic Services of Colorado; Front Range Landfill Erie, Colorado.

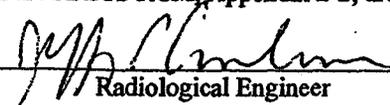
History/Process Knowledge: The demolition debris consists of Transite panels and other miscellaneous non-friable asbestos containing debris. The subject demolition debris is from the demolition of the B560 cooling tower. B560 is the non-functional cooling tower associated with the B559 cluster. Furthermore, B560 has never been included in the B559 RBA/CA. Sections of asbestos containing pipe from the B709 Cooling Tower were also added to the subject B560 waste. Refer to PRE 011030-00707-01 for further details affiliated with the subject pipe sections.

Has the specified material ever been in an RBA/CA or contacted DOE controlled radioactive materials? No

- 1) By signing below, I certify information provided in Part I of this release evaluation to be true and accurate.
- 2) By signing below, I agree to comply with the specific requirements noted in Part II of this release evaluation.

Sender/Custodian:  Emp. No. [REDACTED] Date: 11/16/01 Ext: 4161  
Nancy Jensen

## PART II RADIOLOGICAL ENGINEERING

SPECIFIC REQUIREMENTS AND/OR COMMENTS: Based on the cooling tower's (B560) process history, the likelihood of DOE enhanced radioactive material being present within the subject demolition debris is extremely remote. In addition, B560 was never a part of the B559 CA/RBA. Past and present B560 surveys indicate no history of surface contamination. However, additional alpha surveys are required as part of the demolition and disposal process. A minimum of fifteen total surface activity (TSA) and fifteen removable surface activity measurements for alpha contamination will be performed. In addition, fifteen 1 m<sup>2</sup> alpha scans will be performed around each of the above mentioned survey locations. These fifteen survey locations will be on the interior portions of B560. Therefore, the subject Transite panels, pipe sections, and miscellaneous non-friable asbestos containing demolition debris can be released to the Front Range Landfill in Erie, Colorado provided that alpha unrestricted release limits, as described in the RFETS RCM, Appendix 2-2, are not exceeded.Evaluated:  Emp. No. [REDACTED] Date: 11-16-01 Ext: 3370  
Radiological Engineer

## APPROVAL FOR TRANSFER/SHIPMENT

Approved:  Emp. No. [REDACTED] Date: 11/19/01 Ext: 5028  
Radiological Engineer

# PROPERTY/WASTE RELEASE EVALUATION SIGNATURE REQUIREMENTS

Release Evaluation #: 011108-00559-002 Page 2 of 2

COPY

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COPY

Property  Waste  Sample

RELEASE EVALUATION FORM

Page 1 of 2

Release Evaluation No.: 011108-00559-003 EXTENDED: No EXPIRES: N/A Charge No.: EFD42CTD

PART I SENDER/CUSTODIAN ACKNOWLEDGEMENT

Description of Property/Waste/Sample To Be Released/Transferred: Approximately one yd<sup>3</sup> of demolition debris that consists of friable asbestos.

Current Location: Building 560

Destination: TRS; Building 706; Roll-Off Container # C1014

New Recipient/Custodian: Jeff Tucker at extension 5554

History/Process Knowledge: The demolition debris consists of friable asbestos. The subject friable asbestos containing demolition debris is from the demolition of the B560 cooling tower. B560 is the non-functional cooling tower associated with the B559 cluster. Furthermore, B560 has never been included in the B559 RBA/CA.

Has the specified material ever been in an RBA/CA or contacted DOE controlled radioactive materials? No

- 1) By signing below, I certify information provided in Part I of this release evaluation to be true and accurate.
- 2) By signing below, I agree to comply with the specific requirements noted in Part II of this release evaluation.

Sender/Custodian: Nancy Jensen Emp. No. [REDACTED] Date: 11/8/01 Ext: 4161

PART II RADIOLOGICAL ENGINEERING

SPECIFIC REQUIREMENTS AND/OR COMMENTS:

No surveys required. Based on the cooling tower's (B560) process history, the likelihood of DOE enhanced radioactive material being present within the subject friable asbestos is extremely remote. In addition, B560 was never a part of the B559 CA/RBA. Past and present B560 surveys indicate no history of surface contamination. Therefore, the subject friable asbestos containing demolition debris can be released to the TRS Roll-Off Container # C1014 at B706 pending final disposition.

Evaluated: Jeff P. Ambrose Emp. No. [REDACTED] Date: 11-8-01 Ext: 3370  
Radiological Engineer

APPROVAL FOR TRANSFER/SHIPMENT

Approved: Jeff M. Butler Emp. No. [REDACTED] Date: 11/2/01 Ext: 9250  
Radiological Engineer

# PROPERTY/WASTE RELEASE EVALUATION SIGNATURE REQUIREMENTS

Release Evaluation #: 011108-00559-003 Page 2 of 2

COPY

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