THERMAL EFFECTS ON FLOW

SAMPLE CUSTODY LOG

SAMPLE CUSTODY ENTRY FORM

SAMPLE IDENTIFICATION (Mandatory)
Topapah Spring Tuff (TSw2)

SAMPLE DESIGNATOR

DESCRIPTION OF SAMPLE (Mandatory)
Topapah Spring Tuff lower lithophysal zone
Procured Sroom SMF

REFERENCE TOP or SCIENTIFIC NOTEBOOK ENTRY
382/2

AMOUNT of SAMPLE 6 55 gallon drums **SIZE**

DATE of SAMPLE RECEIPT (Mandatory) 12/21/99

DATE of LOG ENTRY (Mandatory) 12/21/99 **by** James D. Pyl

SAMPLE STORAGE LOCATION (Mandatory)
Bldg 51

Collection Site:

Supplier:

Other:

CNWRA FORM TOP-004

SAMPLE CUSTODY ENTRY FORM

SAMPLE IDENTIFICATION (Mandatory)
TSW2-101 thru TSW2-107

SAMPLE DESIGNATOR

DESCRIPTION OF SAMPLE (Mandatory)
Hand sized specimens of Topopah Spring tuff

REFERENCE TOP or SCIENTIFIC NOTEBOOK ENTRY
382/4

AMOUNT of SAMPLE _____ **SIZE** _____

DATE of SAMPLE RECEIPT (Mandatory) 12/21/99

DATE of LOG ENTRY (Mandatory) 01/17/00 **by** James D. Pigl

SAMPLE STORAGE LOCATION (Mandatory)
Bldg 57

Collection Site:

Supplier:

Other:

CNWRA FORM TOP-004

SAMPLE CUSTODY ENTRY FORM

SAMPLE IDENTIFICATION (Mandatory)
TSW2-101P thru TSW2-107P

SAMPLE DESIGNATOR

DESCRIPTION OF SAMPLE (Mandatory)
Powdered samples of Topapah Spring Tuff

REFERENCE TOP or SCIENTIFIC NOTEBOOK ENTRY
382/4

AMOUNT of SAMPLE _____ **SIZE** _____

DATE of SAMPLE RECEIPT (Mandatory) 12/21/99

DATE of LOG ENTRY 01/17/00 **by** James D. Pyl
(Mandatory)

SAMPLE STORAGE LOCATION (Mandatory)
Bldg 57

Collection Site:

Supplier:

Other:

CNWRA FORM TOP-004

CNWRA Form TOP-2

SAMPLE CUSTODY ENTRY FORM

SAMPLE IDENTIFICATION (Mandatory)
TSW2-101TS thru TSW2-107TS

SAMPLE DESIGNATOR

DESCRIPTION OF SAMPLE (Mandatory)
Thin sections of 10 papch Spring Tuff
prepared by Mineral Optics Lab

REFERENCE TOP or SCIENTIFIC NOTEBOOK ENTRY
382/6

AMOUNT of SAMPLE _____ **SIZE** _____

DATE of SAMPLE RECEIPT (Mandatory) 12/21/99

DATE of LOG ENTRY (Mandatory) 01/17/00 **by** James D. Pye

SAMPLE STORAGE LOCATION (Mandatory)
Bldg 57

Collection Site:

Supplier: _____

Other: _____

CNWRA FORM TOP-004

SAMPLE CUSTODY ENTRY FORM

SAMPLE IDENTIFICATION (Mandatory)
TS-101 thru TS-107

SAMPLE DESIGNATOR

DESCRIPTION OF SAMPLE (Mandatory)
Portions of powders TSW2-101P thru TSW2-107P
sent to Texas Tech for chemical analysis

REFERENCE TOP or SCIENTIFIC NOTEBOOK ENTRY
382/8

AMOUNT of SAMPLE _____ **SIZE** _____

DATE of SAMPLE RECEIPT (Mandatory) 12/21/99

DATE of LOG ENTRY (Mandatory) 01/27/00 **by** James O. Pyl

SAMPLE STORAGE LOCATION (Mandatory)
Bldg 57

Collection Site:

Supplier:

Other:

CNWRA FORM TOP-004

SAMPLE CUSTODY ENTRY FORM

SAMPLE IDENTIFICATION (Mandatory)
01014633

SAMPLE DESIGNATOR

DESCRIPTION OF SAMPLE (Mandatory)
Grout

REFERENCE TOP or SCIENTIFIC NOTEBOOK ENTRY
337/68-69

AMOUNT of SAMPLE SIZE

DATE of SAMPLE RECEIPT (Mandatory) 11/20/01

DATE of LOG ENTRY 11/28/01 by James D. Pigl

SAMPLE STORAGE LOCATION (Mandatory)
Bldg 51

Collection site:

Supplier: Sample Management Facility / YM Site Characterization Project.

Other:

CNWRA FORM TOP-004

SAMPLE CUSTODY ENTRY FORM

SAMPLE IDENTIFICATION (Mandatory)
01014634

SAMPLE DESIGNATOR

DESCRIPTION OF SAMPLE (Mandatory)
Steel Set Section

REFERENCE TOP or SCIENTIFIC NOTEBOOK ENTRY
337/68-69

AMOUNT of SAMPLE SIZE

DATE of SAMPLE RECEIPT (Mandatory) 11/20/01

DATE of LOG ENTRY 11/28/01 by James O. Pyle

SAMPLE STORAGE LOCATION (Mandatory)
Bldg 51

Collection site:

Supplier: Sample Management Facility / YM Site Characterization Project

Other:

CNWRA FORM TOP-004

SAMPLE CUSTODY ENTRY FORM

SAMPLE IDENTIFICATION (Mandatory)
634A

SAMPLE DESIGNATOR

DESCRIPTION OF SAMPLE (Mandatory)
Portion of 01014634

REFERENCE TOP or SCIENTIFIC NOTEBOOK ENTRY
337/75

AMOUNT of SAMPLE SIZE 1"x1" square

DATE of SAMPLE RECEIPT (Mandatory) 11/20/01

DATE of LOG ENTRY 1/3/02 by James D. Fry

SAMPLE STORAGE LOCATION (Mandatory)
Bldg 51

Collection site:

Supplier:

Other:

CNWRA FORM TOP-004

SAMPLE CUSTODY ENTRY FORM

SAMPLE IDENTIFICATION (Mandatory)
634 B

SAMPLE DESIGNATOR

DESCRIPTION OF SAMPLE (Mandatory)
Portion of 01014634

REFERENCE TOP or SCIENTIFIC NOTEBOOK ENTRY
337/75

AMOUNT of SAMPLE SIZE 1"x1" square

DATE of SAMPLE RECEIPT (Mandatory) 11/20/01

DATE of LOG ENTRY 1/3/02 by James D. Pyl

SAMPLE STORAGE LOCATION (Mandatory)
Bldg. 51

Collection site:

Supplier:

Other:

CNWRA FORM TOP-004

CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES TECHNICAL OPERATING PROCEDURE	Proc. TOP-012 Revision 1 Page 9 of 9

SAMPLE CUSTODY ENTRY FORM

SAMPLE IDENTIFICATION (Mandatory)
635A

SAMPLE DESIGNATOR

DESCRIPTION OF SAMPLE (Mandatory)
Portion of 61014635

REFERENCE TOP or SCIENTIFIC NOTEBOOK ENTRY
337/75

AMOUNT of SAMPLE SIZE 1"x1" rounded piece

DATE of SAMPLE RECEIPT (Mandatory) 11/20/01

DATE of LOG ENTRY 1/3/02 by James R. Fyl

SAMPLE STORAGE LOCATION (Mandatory)
Bldg 51

Collection site:

Supplier:

Other:

CNWRA FORM TOP-004

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SAMPLE CUSTODY ENTRY FORM

SAMPLE IDENTIFICATION (Mandatory)
635B

SAMPLE DESIGNATOR

DESCRIPTION OF SAMPLE (Mandatory)
Portion of 01014635

REFERENCE TOP or SCIENTIFIC NOTEBOOK ENTRY
337/75

AMOUNT of SAMPLE SIZE 1"x1.25" rounded piece

DATE of SAMPLE RECEIPT (Mandatory) 11/20/01

DATE of LOG ENTRY 1/3/02 by James D. Pigl

SAMPLE STORAGE LOCATION (Mandatory)
Bldg 51

Collection site:

Supplier:

Other:

CNWRA FORM TOP-004

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SAMPLE CUSTODY ENTRY FORM

SAMPLE IDENTIFICATION (Mandatory)
01014635

SAMPLE DESIGNATOR

DESCRIPTION OF SAMPLE (Mandatory)
10' Swellex Rock Bolt

REFERENCE TOP or SCIENTIFIC NOTEBOOK ENTRY
337 / 68-69

AMOUNT of SAMPLE SIZE

DATE of SAMPLE RECEIPT (Mandatory) 11/20/01

DATE of LOG ENTRY 11/28/01 by [signature]

SAMPLE STORAGE LOCATION (Mandatory)
Bldg 51

Collection site:

Supplier: Sample Management Facility / YM Site Characterization Project

Other:

CNWRA FORM TOP-004

CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES TECHNICAL OPERATING PROCEDURE	Proc. TOP-012 Revision 1 Page 9 of 9

SAMPLE CUSTODY ENTRY FORM

SAMPLE IDENTIFICATION (Mandatory)
636A

SAMPLE DESIGNATOR

DESCRIPTION OF SAMPLE (Mandatory)
Portion of 01Q4636

REFERENCE TOP or SCIENTIFIC NOTEBOOK ENTRY
337/75

AMOUNT of SAMPLE SIZE 1"x1.25" rounded piece

DATE of SAMPLE RECEIPT (Mandatory) 11/20/01

DATE of LOG ENTRY 1/3/02 by James D. Fyl

SAMPLE STORAGE LOCATION (Mandatory)
Bldg 51

Collection site:

Supplier:

Other:

CNWRA FORM TOP-004

SAMPLE CUSTODY ENTRY FORM

SAMPLE IDENTIFICATION (Mandatory)
636B

SAMPLE DESIGNATOR

DESCRIPTION OF SAMPLE (Mandatory)
Portion of 01014636

REFERENCE TOP or SCIENTIFIC NOTEBOOK ENTRY
337/75

AMOUNT of SAMPLE SIZE 1" x 1.25" rounded piece

DATE of SAMPLE RECEIPT (Mandatory) 11/20/01

DATE of LOG ENTRY 1/3/02 by [signature]

SAMPLE STORAGE LOCATION (Mandatory)
Bldg 51

Collection site:

Supplier:

Other:

CNWRA FORM TOP-004

SAMPLE CUSTODY ENTRY FORM

SAMPLE IDENTIFICATION (Mandatory)
01014636

SAMPLE DESIGNATOR

DESCRIPTION OF SAMPLE (Mandatory)
2' Swellex Rock Bolt

REFERENCE TOP or SCIENTIFIC NOTEBOOK ENTRY
337/68-69

AMOUNT of SAMPLE SIZE

DATE of SAMPLE RECEIPT (Mandatory) 11/20/01

DATE of LOG ENTRY 11/28/01 by James D. Pigg

SAMPLE STORAGE LOCATION (Mandatory)
Bldg 51

Collection site:

Supplier: Sample Management Facility / YM Site Characterization Project

Other:

CNWRA FORM TOP-004

SAMPLE CUSTODY ENTRY FORM

SAMPLE IDENTIFICATION (Mandatory)
01014637

SAMPLE DESIGNATOR

DESCRIPTION OF SAMPLE (Mandatory)
10' Split Set Rock Bolt

REFERENCE TOP or SCIENTIFIC NOTEBOOK ENTRY
337 / 68-69

AMOUNT of SAMPLE _____ SIZE _____

DATE of SAMPLE RECEIPT (Mandatory) 11/20/01

DATE of LOG ENTRY 11/28/01 by [illegible]

SAMPLE STORAGE LOCATION (Mandatory)
Bldg 51

Collection site:

Supplier: Sample Management Facility / YM Site Characterization Project

Other:

CNWRA FORM TOP-004

SAMPLE CUSTODY ENTRY FORM

SAMPLE IDENTIFICATION (Mandatory)
637A

SAMPLE DESIGNATOR

DESCRIPTION OF SAMPLE (Mandatory)
Portion of 01014637

REFERENCE TOP or SCIENTIFIC NOTEBOOK ENTRY
337/75

AMOUNT of SAMPLE SIZE 1"x1.25" rounded piece

DATE of SAMPLE RECEIPT (Mandatory) 11/20/01

DATE of LOG ENTRY 1/3/02 by James D. Pye

SAMPLE STORAGE LOCATION (Mandatory)
Bldg 51

Collection site:

Supplier:

Other:

CNWRA FORM TOP-004

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SAMPLE CUSTODY ENTRY FORM

SAMPLE IDENTIFICATION (Mandatory)
637B

SAMPLE DESIGNATOR

DESCRIPTION OF SAMPLE (Mandatory)
Portion of 01014637

REFERENCE TOP or SCIENTIFIC NOTEBOOK ENTRY
337/75

AMOUNT of SAMPLE SIZE 1"X1.25" rounded piece

DATE of SAMPLE RECEIPT (Mandatory) 11/20/01

DATE of LOG ENTRY 1/3/02 by [signature]

SAMPLE STORAGE LOCATION (Mandatory)
Bldg 51

Collection site:

Supplier:

Other:

CNWRA FORM TOP-004

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SAMPLE CUSTODY ENTRY FORM

SAMPLE IDENTIFICATION (Mandatory)
01014638

SAMPLE DESIGNATOR

DESCRIPTION OF SAMPLE (Mandatory)
3"x 2.5" Wire Mesh

REFERENCE TOP or SCIENTIFIC NOTEBOOK ENTRY
337/68-69

AMOUNT of SAMPLE _____ SIZE _____

DATE of SAMPLE RECEIPT (Mandatory) 11/20/01

DATE of LOG ENTRY 11/28/01 by [illegible]

SAMPLE STORAGE LOCATION (Mandatory)
Bldg 51

Collection site:

Supplier: Sample Management Facility / YM Site Characterization Project

Other:

CNWRA FORM TOP-004

SAMPLE CUSTODY ENTRY FORM

SAMPLE IDENTIFICATION (Mandatory)
6038A

SAMPLE DESIGNATOR

DESCRIPTION OF SAMPLE (Mandatory)
Portion of 01014638

REFERENCE TOP or SCIENTIFIC NOTEBOOK ENTRY
337/75

AMOUNT of SAMPLE 26.1 g SIZE

DATE of SAMPLE RECEIPT (Mandatory) 11/20/01

DATE of LOG ENTRY 1/3/02 by James D. Pyl

SAMPLE STORAGE LOCATION (Mandatory)
Bldg 51

Collection site:

Supplier:

Other:

CNWRA FORM TOP-004

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SAMPLE CUSTODY ENTRY FORM

SAMPLE IDENTIFICATION (Mandatory)
01014639

SAMPLE DESIGNATOR

DESCRIPTION OF SAMPLE (Mandatory)
3" x 2.5" Wire Mesh

REFERENCE TOP or SCIENTIFIC NOTEBOOK ENTRY
337/68-69

AMOUNT of SAMPLE _____ SIZE _____

DATE of SAMPLE RECEIPT (Mandatory) 11/20/01

DATE of LOG ENTRY 11/28/01 by James D. P

SAMPLE STORAGE LOCATION (Mandatory)
Bldg 51.

Collection site:

Supplier: Sample Management Facility / YM Site Characterization Project

Other:

CNWRA FORM TOP-004

SAMPLE CUSTODY ENTRY FORM

SAMPLE IDENTIFICATION (Mandatory)
639A

SAMPLE DESIGNATOR

DESCRIPTION OF SAMPLE (Mandatory)
Portion of 01014639

REFERENCE TOP or SCIENTIFIC NOTEBOOK ENTRY
337/75

AMOUNT of SAMPLE 27.1g SIZE

DATE of SAMPLE RECEIPT (Mandatory) 11/20/01

DATE of LOG ENTRY 1/3/02 by [illegible]

SAMPLE STORAGE LOCATION (Mandatory)
Bldg 51

Collection site:

Supplier:

Other:

CNWRA FORM TOP-004

SAMPLE CUSTODY ENTRY FORM

SAMPLE IDENTIFICATION (Mandatory)
634-F

SAMPLE DESIGNATOR

DESCRIPTION OF SAMPLE (Mandatory)
Filings produced from 01014634 (steel set section)

REFERENCE TOP or SCIENTIFIC NOTEBOOK ENTRY
582|3

AMOUNT of SAMPLE 584.24 g SIZE

DATE of SAMPLE RECEIPT (Mandatory) 3|13|03

DATE of LOG ENTRY 3|13|03 by James D. Pigl

SAMPLE STORAGE LOCATION (Mandatory)
Bldg 57

Collection site:

Supplier:

Other:

CNWRA FORM TOP-004

SAMPLE CUSTODY ENTRY FORM

SAMPLE IDENTIFICATION (Mandatory)
634-W

SAMPLE DESIGNATOR

DESCRIPTION OF SAMPLE (Mandatory)
Wafers (~1 cm x ~1 cm x ~0.2 cm) produced from
01014634 (steel set section)

REFERENCE TOP or SCIENTIFIC NOTEBOOK ENTRY
582|3

AMOUNT of SAMPLE _____ SIZE squares 1cm x 1cm x 0.2cm

DATE of SAMPLE RECEIPT (Mandatory) 3|13|03

DATE of LOG ENTRY 3|13|03 by James D. Pyle

SAMPLE STORAGE LOCATION (Mandatory)
Bldg 57

Collection site:

Supplier:

Other:

CNWRA FORM TOP-004

SAMPLE CUSTODY ENTRY FORM

SAMPLE IDENTIFICATION (Mandatory)
637-F

SAMPLE DESIGNATOR

DESCRIPTION OF SAMPLE (Mandatory)
Filings produced from 01014637 (rock bolt).

REFERENCE TOP or SCIENTIFIC NOTEBOOK ENTRY
582/3

AMOUNT of SAMPLE 123.89g SIZE

DATE of SAMPLE RECEIPT (Mandatory) 3/13/03

DATE of LOG ENTRY 3/13/03 by James D. Ryl

SAMPLE STORAGE LOCATION (Mandatory)
Bldg 57

Collection site:

Supplier:

Other:

CNWRA FORM TOP-004

CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES TECHNICAL OPERATING PROCEDURE	Proc. TOP-012 Revision 1 Page 9 of 9

SAMPLE CUSTODY ENTRY FORM

SAMPLE IDENTIFICATION (Mandatory)
637-W

SAMPLE DESIGNATOR

DESCRIPTION OF SAMPLE (Mandatory)
Wafers produced from 01014637 (rock bolt)

REFERENCE TOP or SCIENTIFIC NOTEBOOK ENTRY
582/3

AMOUNT of SAMPLE SIZE square to rectangle ~1cm x ~1cm x ~0.2cm

DATE of SAMPLE RECEIPT (Mandatory) 3/13/03

DATE of LOG ENTRY 3/13/03 by James R. Fyl

SAMPLE STORAGE LOCATION (Mandatory)
Bldg 57

Collection site:

Supplier:

Other:

CNWRA FORM TOP-004

SAMPLE CUSTODY ENTRY FORM

SAMPLE IDENTIFICATION (Mandatory)
634-Fa

SAMPLE DESIGNATOR

DESCRIPTION OF SAMPLE (Mandatory)
Metal Filings produced from 01014634 (steel set section)

REFERENCE TOP or SCIENTIFIC NOTEBOOK ENTRY
582/50

AMOUNT of SAMPLE 100 g SIZE

DATE of SAMPLE RECEIPT (Mandatory) 10/10/03

DATE of LOG ENTRY 10/14/03 by [signature]

SAMPLE STORAGE LOCATION (Mandatory)
Bldg 57

Collection site:

Supplier:

Other:

CNWRA FORM TOP-004

SAMPLE CUSTODY ENTRY FORM

SAMPLE IDENTIFICATION (Mandatory)
634-Wa

SAMPLE DESIGNATOR

DESCRIPTION OF SAMPLE (Mandatory)
Wafer (~1 cm x ~1 cm x ~0.2 cm) produced from
61014634 (steel set section)

REFERENCE TOP or SCIENTIFIC NOTEBOOK ENTRY
582/50

AMOUNT of SAMPLE SIZE Square

DATE of SAMPLE RECEIPT (Mandatory) 10/10/03

DATE of LOG ENTRY 10/14/03 by [signature]

SAMPLE STORAGE LOCATION (Mandatory)
Bldg 57

Collection site:

Supplier:

Other:

CNWRA FORM TOP-004

SAMPLE CUSTODY ENTRY FORM

SAMPLE IDENTIFICATION (Mandatory)
637-Fa

SAMPLE DESIGNATOR

DESCRIPTION OF SAMPLE (Mandatory)
Metal Filings produced from 01014637 (rock bolt)

REFERENCE TOP or SCIENTIFIC NOTEBOOK ENTRY
582/50

AMOUNT of SAMPLE 100 g SIZE

DATE of SAMPLE RECEIPT (Mandatory) 10/10/03

DATE of LOG ENTRY 10/14/03 by [signature]

SAMPLE STORAGE LOCATION (Mandatory)
Bldg 57

Collection site:

Supplier:

Other:

CNWRA FORM TOP-004

SAMPLE CUSTODY ENTRY FORM

SAMPLE IDENTIFICATION (Mandatory)
637-Wa

SAMPLE DESIGNATOR

DESCRIPTION OF SAMPLE (Mandatory)
Wafer produced from 01014637 (rock bolt)

REFERENCE TOP or SCIENTIFIC NOTEBOOK ENTRY
582/50

AMOUNT of SAMPLE SIZE square ~1cm x ~1cm x ~0.2cm

DATE of SAMPLE RECEIPT (Mandatory) 10/10/03

DATE of LOG ENTRY 10/14/03 by [signature]

SAMPLE STORAGE LOCATION (Mandatory)
Bldg 57

Collection site:

Supplier:

Other:

CNWRA FORM TOP-004