

Solitario Canyon

Assign to: not required

# CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES

## SAMPLE CUSTODY LOG ENTRY FORM

|                                                             |                                                                                                          |      |              |
|-------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|------|--------------|
| SAMPLE IDENTIFICATION (Mandatory)                           | SC5-9B-1, A, A1 ....                                                                                     |      |              |
| SAMPLE DESIGNATION                                          |                                                                                                          |      |              |
| DESCRIPTION OF SAMPLE (Mandatory)                           | Moderate to densely welded tuff; pinkish-grey in color                                                   |      |              |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY                  | SNB 217                                                                                                  |      |              |
| AMOUNT OF SAMPLE                                            | Hand sample                                                                                              | SIZE | ~5 kg.       |
| DATE OF SAMPLE RECEIPT (Mandatory)                          | 5-7-98                                                                                                   |      |              |
| DATE OF INITIAL LOG ENTRY (Mandatory)                       | 5-7-98                                                                                                   | BY   | Jim Winterle |
| SAMPLE STORAGE LOCATION (Mandatory)                         | Rock mechanics Lab, Bldg 57                                                                              |      |              |
| COLLECTION SITE (Reference Maps or Field Notes As Required) | Solitario Canyon, west of yucca crest on side slope.                                                     |      |              |
| PERSON(S) WHO COLLECTED SAMPLE(S)                           | Jim Winterle                                                                                             |      |              |
| SUPPLIER                                                    |                                                                                                          |      |              |
| OTHER                                                       | Sample Disposed of on 5/19/2006. No longer required; never used in any regulatory analysis. J.W. 5/19/06 |      |              |

# CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES

## SAMPLE CUSTODY LOG ENTRY FORM

SAMPLE IDENTIFICATION (Mandatory)

SC5-98-2

SAMPLE DESIGNATION

DESCRIPTION OF SAMPLE (Mandatory)

Low to moderate welded tuff  
(ashfall?) with clastic inclusions; yellowish Brown color

REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY

SNB 217

AMOUNT OF SAMPLE

SIZE

~5 kg

DATE OF SAMPLE RECEIPT (Mandatory)

5-7-98

DATE OF INITIAL LOG ENTRY (Mandatory)

5-7-98

BY

Jim Winterlo

SAMPLE STORAGE LOCATION (Mandatory)

Rock mechanics lab ; Bldg 57

COLLECTION SITE (Reference Maps or Field Notes As Required)

Solitario Canyon outcrop on west  
slope of yucca mountain.

PERSON(S) WHO COLLECTED SAMPLE(S)

Jim Winterlo

SUPPLIER

OTHER

Sample disposed of on 5/19/06. No longer  
required and never used in any regulatory  
analysis J. Winterlo 5/19/06

# CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES

## SAMPLE CUSTODY LOG ENTRY FORM

SAMPLE IDENTIFICATION (Mandatory)

~~SCS-98-3~~ <sup>1003110</sup> SCS-98-3

SAMPLE DESIGNATION

DESCRIPTION OF SAMPLE (Mandatory)

Moderately welded tuff with open lithophysae; Brownish-grey color.

REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY

SNB 217

AMOUNT OF SAMPLE

SIZE

~ 5 kg

DATE OF SAMPLE RECEIPT (Mandatory)

5-7-98

DATE OF INITIAL LOG ENTRY (Mandatory)

5-7-98

BY

Jim Winterle

SAMPLE STORAGE LOCATION (Mandatory)

Rock mechanics Laboratory; Bldg 57

COLLECTION SITE (Reference Maps or Field Notes As Required)

Solitario Canyon; west of Yucca Crest

PERSON(S) WHO COLLECTED SAMPLE(S)

Jim Winterle

SUPPLIER

OTHER

Sample disposed of on 5/19/06. No longer required and never used in any regulatory analysis. JRW 5/19/06



# CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES

## SAMPLE CUSTODY LOG ENTRY FORM

|                                                             |                                                                                                                |        |              |
|-------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|--------|--------------|
| SAMPLE IDENTIFICATION (Mandatory)                           | SC-5-98-4                                                                                                      |        |              |
| SAMPLE DESIGNATION                                          |                                                                                                                |        |              |
| DESCRIPTION OF SAMPLE (Mandatory)                           | moderately welded tuff; some lithophysy; Dark grey color                                                       |        |              |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY                  | SNB 217                                                                                                        |        |              |
| AMOUNT OF SAMPLE                                            | SIZE                                                                                                           | ~ 5 kg |              |
| DATE OF SAMPLE RECEIPT (Mandatory)                          | 5-7-98                                                                                                         |        |              |
| DATE OF INITIAL LOG ENTRY (Mandatory)                       | 5-7-98                                                                                                         | BY     | Jim Wintelle |
| SAMPLE STORAGE LOCATION (Mandatory)                         | Rock Mechanics Lab; Bldg 57                                                                                    |        |              |
| COLLECTION SITE (Reference Maps or Field Notes As Required) | Solitario canyon; west side of yucca crest.                                                                    |        |              |
| PERSON(S) WHO COLLECTED SAMPLE(S)                           | Jim Wintelle                                                                                                   |        |              |
| SUPPLIER                                                    |                                                                                                                |        |              |
| OTHER                                                       | Sample disposed of on 5/18/06. No longer required and never used in any regulatory analysis. JWintelle 5/18/06 |        |              |

# CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES

## SAMPLE CUSTODY LOG ENTRY FORM

PAW  
5-7-98

SAMPLE IDENTIFICATION (Mandatory)

SC-5-98(8)-5

SAMPLE DESIGNATION

DESCRIPTION OF SAMPLE (Mandatory)

Moderately-to-densely welded tuff,  
greyish color

REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY

SNB 217

AMOUNT OF SAMPLE

SIZE

~ 5 kg.

DATE OF SAMPLE RECEIPT (Mandatory)

5-7-98

DATE OF INITIAL LOG ENTRY (Mandatory)

5-7-98

BY

Jim Winterle

SAMPLE STORAGE LOCATION (Mandatory)

Rock Mechanics lab; Bldg 57

COLLECTION SITE (Reference Maps or Field Notes As Required)

Solitario Canyon; west of Yucca crest.

PERSON(S) WHO COLLECTED SAMPLE(S)

Jim Winterle

SUPPLIER

OTHER

Sample disposed of on 5/19/06. No  
longer Required and never used in any  
Regulatory Analysis. J. Winterle 5/19/06

# CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES

## SAMPLE CUSTODY LOG ENTRY FORM

|                                                             |                                                                                                                 |             |  |
|-------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|-------------|--|
| SAMPLE IDENTIFICATION (Mandatory)                           | SC 5-98-6                                                                                                       |             |  |
| SAMPLE DESIGNATION                                          |                                                                                                                 |             |  |
| DESCRIPTION OF SAMPLE (Mandatory)                           | low-welding tuff; reddish brown color                                                                           |             |  |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY                  | SNB 217                                                                                                         |             |  |
| AMOUNT OF SAMPLE                                            | SIZE                                                                                                            | ~ 5 kg      |  |
| DATE OF SAMPLE RECEIPT (Mandatory)                          | 5-7-98                                                                                                          |             |  |
| DATE OF INITIAL LOG ENTRY (Mandatory)                       | BY                                                                                                              | Jim Wintels |  |
| SAMPLE STORAGE LOCATION (Mandatory)                         | Rock Mechanics Lab                                                                                              |             |  |
| COLLECTION SITE (Reference Maps or Field Notes As Required) | Solitario Canyon, west of Yucca Crest.                                                                          |             |  |
| PERSON(S) WHO COLLECTED SAMPLE(S)                           | Jim Wintels                                                                                                     |             |  |
| SUPPLIER                                                    |                                                                                                                 |             |  |
| OTHER                                                       | Sample disposed of on 5/19/06. No longer required and never used in any regulatory analysis. J. Wintels 5/19/06 |             |  |

# CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES

## SAMPLE CUSTODY LOG ENTRY FORM

SAMPLE IDENTIFICATION (Mandatory)

SCS-98-7

SAMPLE DESIGNATION

DESCRIPTION OF SAMPLE (Mandatory)

Black, densely welded rock.

REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY

SNB 217 pg 40

AMOUNT OF SAMPLE

SIZE

~ 5 kg

DATE OF SAMPLE RECEIPT (Mandatory)

5-7-98

DATE OF INITIAL LOG ENTRY (Mandatory)

5-7-98

BY

Jim Wintule

SAMPLE STORAGE LOCATION (Mandatory)

Rock mechanics Sample; Bldg 57

COLLECTION SITE (Reference Maps or Field Notes As Required)

Saliterno Canyon; west of Yucca Crest

PERSON(S) WHO COLLECTED SAMPLE(S)

Jim Wintule

SUPPLIER

OTHER

Sample disposed of on 5/19/06. No longer required and never used in any regulatory analysis. JKW 5/19/06

Yucca Mountain

Assign to: S. Stothoff

# CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES

## SAMPLE CUSTODY LOG ENTRY FORM

**SAMPLE IDENTIFICATION (Mandatory)**

RTW2 (0-20 cm)

**SAMPLE DESIGNATION**

**DESCRIPTION OF SAMPLE (Mandatory)**

Sample is from upper 2 horizons (0-20 cm depth) of colluvium; contains about 30% rock fragment; field identified as fine sandy loam (0-9 cm) and sandy loam (9-20 cm)

**REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY**

Scientific Notebook 255, p. 73

**AMOUNT OF SAMPLE**

1/2 plastic bag

**SIZE**

1 gallon ziplock

**DATE OF SAMPLE RECEIPT (Mandatory)**

05/17/98

**DATE OF INITIAL LOG ENTRY (Mandatory)**

06/26/98

**BY**

Randall Fedors

**SAMPLE STORAGE LOCATION (Mandatory)**

Store initial split in building 51

**COLLECTION SITE (Reference Maps or Field Notes As Required)**

Sample collected from wall of soil pit dug near the crest of Yucca Mountain. Initial estimate of location in Nevada state coordinates is N764760 and E559110 ft. See Scientific notebook 255, p. 73

**PERSON(S) WHO COLLECTED SAMPLE(S)**

Randall Fedors & Oliver Chadwick

**SUPPLIER**

**OTHER**

# CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES

## SAMPLE CUSTODY LOG ENTRY FORM

**SAMPLE IDENTIFICATION (Mandatory)**

RTW2 (20-50 cm)

**SAMPLE DESIGNATION**

**DESCRIPTION OF SAMPLE (Mandatory)**

Sample is from lower horizon (20-50 cm depth) of colluvium; contains about 30% rock fragment and is carbonate-bearing; field identified as a clay loam

**REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY**

Scientific Notebook 255, page 73

**AMOUNT OF SAMPLE**

1/2 bag

**SIZE**

1 gallon ziplock

**DATE OF SAMPLE RECEIPT (Mandatory)**

05/17/98

**DATE OF INITIAL LOG ENTRY (Mandatory)**

06/26/98

**BY**

Randall Fedors

**SAMPLE STORAGE LOCATION (Mandatory)**

Store initial split in building 51

**COLLECTION SITE (Reference Maps or Field Notes As Required)**

Sample collected from wall of soil pit dug near crest of Yucca Mountain. Initial estimate of location in Nevada state coordinates is N 764760 and E 559110 ft. See Scientific Notebook 255, page 73

**PERSON(S) WHO COLLECTED SAMPLE(S)**

Randall Fedors & Oliver Chadwick

**SUPPLIER**

**OTHER**

# CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES

## SAMPLE CUSTODY LOG ENTRY FORM

SAMPLE IDENTIFICATION (Mandatory)

NFW4 (6-38 cm)

SAMPLE DESIGNATION

DESCRIPTION OF SAMPLE (Mandatory)

Sample is from uniform soil profile (except for top organic-bearing horizon, not sampled) of colluvium; field identified as a fine sandy loam; eolian origin mixed in with boulders.

REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY

Scientific Notebook 255, page 80

AMOUNT OF SAMPLE

1/2 bag

SIZE

1 gallon ziplock

DATE OF SAMPLE RECEIPT (Mandatory)

05/17/98

DATE OF INITIAL LOG ENTRY (Mandatory)

06/20/98

BY

Randy Feders

SAMPLE STORAGE LOCATION (Mandatory)

Store initial split in building 51

COLLECTION SITE (Reference Maps or Field Notes As Required)

Sample collected from wall of soil pit dug on north-facing slope in upper watershed (north sub-basin) of Split Wash at Yucca Mountain. Initial estimate of Nevada State coordinates is N765150 and E560840 ft.

PERSON(S) WHO COLLECTED SAMPLE(S)

Randall Feders and Oliver Chadwick

SUPPLIER

OTHER



# CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES

## SAMPLE CUSTODY LOG ENTRY FORM

|                                                             |                                                                     |      |                               |
|-------------------------------------------------------------|---------------------------------------------------------------------|------|-------------------------------|
| SAMPLE IDENTIFICATION (Mandatory)                           | RTW 2a                                                              |      |                               |
| SAMPLE DESIGNATION                                          | RTW2a                                                               |      |                               |
| DESCRIPTION OF SAMPLE (Mandatory)                           | clay loam, aggregated;<br>soil from depths of 20-25 cm from surface |      |                               |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY                  | Field Notebook; # 255, page 100                                     |      |                               |
| AMOUNT OF SAMPLE                                            | ~1600 cm <sup>3</sup> (field volume)                                | SIZE | put into 1 gallon plastic bag |
| DATE OF SAMPLE RECEIPT (Mandatory)                          | 11/4/98                                                             |      |                               |
| DATE OF INITIAL LOG ENTRY (Mandatory)                       | 12/18/98                                                            | BY   | R. Fedors                     |
| SAMPLE STORAGE LOCATION (Mandatory)                         | Bldg 51                                                             |      |                               |
| COLLECTION SITE (Reference Maps or Field Notes As Required) |                                                                     |      |                               |
| See page 100, then page 73 for location                     |                                                                     |      |                               |
| Approx description is: From a pit in the colluvium on       |                                                                     |      |                               |
| the crest of Yucca Mtn, Nevada; near upper                  |                                                                     |      |                               |
| part of northern branch of Split Wash                       |                                                                     |      |                               |
|                                                             |                                                                     |      |                               |
|                                                             |                                                                     |      |                               |
|                                                             |                                                                     |      |                               |
| PERSON(S) WHO COLLECTED SAMPLE(S)                           | Randy Fedors                                                        |      |                               |
| SUPPLIER                                                    |                                                                     |      |                               |
| OTHER                                                       |                                                                     |      |                               |
|                                                             |                                                                     |      |                               |
|                                                             |                                                                     |      |                               |

Crushed Tuff

Assign to: Ron Green

# CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES

## SAMPLE CUSTODY LOG ENTRY FORM

**SAMPLE IDENTIFICATION (Mandatory)** *Topopah Spring (lower lithophysal) Tpt p11*

**SAMPLE DESIGNATION** *Tpt p11 / Topopah Spring / lower lithophysal*

**DESCRIPTION OF SAMPLE (Mandatory)** *first-size samples of rhyolitic  
tuff*

**REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY** *notebook # 382 / p 2*

**AMOUNT OF SAMPLE** *~ 4,300 lbs / 6 barrels*      **SIZE** *first-size*

**DATE OF SAMPLE RECEIPT (Mandatory)** *12/16/99*

**DATE OF INITIAL LOG ENTRY (Mandatory)** *12/21/99*      **BY** *Melissa Hill*

**SAMPLE STORAGE LOCATION (Mandatory)** *Bldg 51*

**COLLECTION SITE (Reference Maps or Field Notes As Required)**

*Niche # 5 FCRB Yucca Mountain, Nevada  
U.S.A.*

**PERSON(S) WHO COLLECTED SAMPLE(S)** *Dick Kovach*

**SUPPLIER**

**OTHER**

Fortymile Wash/Amargosa Desert Soils

Assign to: Marius Necsoiu

**CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES  
SAMPLE CUSTODY LOG ENTRY FORM**

**Sample Identification (Mandatory):** 9/17/00 550068 4058397

**Sample Designation:** Lab#1

**Description of Sample (Mandatory):** Coarse loamy sand to sand channel deposit  
from 1-11 cm depth

**Reference TOP or Scientific Notebook Entry:** Scientific Notebook #338, page 13 (2)

|                                                                          |              |
|--------------------------------------------------------------------------|--------------|
| <b>Amount of Sample:</b> 264.2 cm <sup>3</sup> (likely over-represented) | <b>Size:</b> |
|--------------------------------------------------------------------------|--------------|

**Date of Sample Receipt (Mandatory):** 9/17/00

|                                                        |                      |
|--------------------------------------------------------|----------------------|
| <b>Date of Initial Log Entry (Mandatory):</b> 09/29/00 | <b>By:</b> R. Fedors |
|--------------------------------------------------------|----------------------|

**Sample Storage Location (Mandatory):** Building 51

**Collection Site (Reference Maps or Field Notes as Required):**

Fortymile Wash north of Highway 95 in area of active channel & fluvial sheet wash deposits.

Collected near USGS stream gage; more representative of channel deposits than Lab#4.

UTM NAD27 coordinates E 550068 N 4058397 meters.

Mid-transect of Spectral Site 091700-2.

Two composited samples taken one on top of the other using the metal cylinder press.

Collected with minimal exposure time to arid atmosphere; stored in 1 gal ziplock freezer bag.

Difficulty collecting sample because of buried boulders, volume is likely an overestimate.

**Person(s) Who Collected Samples:** David Farrell

**Supplier:**

**Other:**

**CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES  
SAMPLE CUSTODY LOG ENTRY FORM**

**Sample Identification (Mandatory):** 09/17/00 550018 4058398

**Sample Designation:** Lab#2

**Description of Sample (Mandatory):** Sandy loam soil to loamy sand; sheetwash; 1-11 cm

**Reference TOP or Scientific Notebook Entry:** Scientific Notebook #338, page 13 (3)

**Amount of Sample:** 264.2 cm<sup>3</sup>

**Size:**

**Date of Sample Receipt (Mandatory):** 9/17/00

**Date of Initial Log Entry (Mandatory):** 09/29/00

**By:** R. Fedors

**Sample Storage Location (Mandatory):** Building 51

**Collection Site (Reference Maps or Field Notes as Required):**

Fortymile Wash north of Highway 95 in area of sheet wash deposits between active channels.

UTM NAD27 coordinates E 550018 N 4058398 meters.

On transect of Spectral Site 091700-2.

Two composited samples taken one on top of the other (stacked) using metal cylinder press.

Cylinder is 5.8 cm diameter and 5 cm height.

Collected with minimal exposure time to arid atmosphere; stored in 1 gal ziplock freezer bag.

**Person(s) Who Collected Samples:** David Farrell

**Supplier:**

**Other:**

**CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES  
SAMPLE CUSTODY LOG ENTRY FORM**

**Sample Identification (Mandatory):** 09/17/00-1 550618 4058277

**Sample Designation:** Lab#3

**Description of Sample (Mandatory):** Sandy loam to loamy sand soil; depth 1-6 cm

**Reference TOP or Scientific Notebook Entry:** Scientific Notebook #338, page 10

**Amount of Sample:** 264.2 cm<sup>3</sup>

**Size:**

**Date of Sample Receipt (Mandatory):** 9/17/00

**Date of Initial Log Entry (Mandatory):** 09/29/00

**By:** R. Fedors

**Sample Storage Location (Mandatory):** Building 51

**Collection Site (Reference Maps or Field Notes as Required):**

Fortymile Wash north of Highway 95 in of old fluvial sheet wash deposits.

Brushed away top scree (~1 cm depth).

UTM NAD27 coordinates E 550618 N 4058277 meters.

Spectral Site 091700-1.

Two composited samples from ~1 m apart using the metal cylinder press.

Cylinder is 5.8 cm diameter and 5 cm height.

Collected with minimal exposure time to arid atmosphere; stored in 1 gal ziplock freezer bag.

**Person(s) Who Collected Samples:** Randy Fedors

**Supplier:**

**Other:**

**CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES  
SAMPLE CUSTODY LOG ENTRY FORM**

**Sample Identification (Mandatory):** 09/17/00 550057 4058244

**Sample Designation:** Lab#4

**Description of Sample (Mandatory):** Sandy loam channel deposit at 1-11 cm depth  
( clodding of soil prevalent)

**Reference TOP or Scientific Notebook Entry:** Scientific Notebook #338, page 13 (1)

**Amount of Sample:** 264.2 cm<sup>3</sup>

**Size:**

**Date of Sample Receipt (Mandatory):** 9/17/00

**Date of Initial Log Entry (Mandatory):** 09/29/00

**By:** R. Fedors

**Sample Storage Location (Mandatory):** Building 51

**Collection Site (Reference Maps or Field Notes as Required):**

Fortymile Wash north of Highway 95 in active sub-channel of the wash.

Upstream side of dirt road embankment where water ponds, top <1 cm of silt scraped off.

UTM NAD27 coordinates E 550057 N 4058244 meters.

South of Spectral site 091700-2.

Two composited samples taken one on top of the other using the metal cylinder press.

Cylinder is 5.8 cm diameter and 5 cm height.

Collected with minimal exposure time to arid atmosphere; stored in 1 gal ziplock freezer bag.

**Person(s) Who Collected Samples:** David Farrell

**Supplier:**

**Other:**



**CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES  
SAMPLE CUSTODY LOG ENTRY FORM**

**Sample Identification (Mandatory):** 0919-1 535336 4073644

**Sample Designation:** Lab#5

**Description of Sample (Mandatory):** Fine sandy loam soil, pavement; 1-6 cm depth

**Reference TOP or Scientific Notebook Entry:** Scientific Notebook #338, page 26

**Amount of Sample:** 264.2 cm<sup>3</sup>

**Size:**

**Date of Sample Receipt (Mandatory):** 9/19/00

**Date of Initial Log Entry (Mandatory):** 09/29/00

**By:** R. Fedors

**Sample Storage Location (Mandatory):** Building 51

**Collection Site (Reference Maps or Field Notes as Required):**

Crater Flat, south of intersection of main dirt roads west of Red Cone

(one north-south and one heading east to Red Cone and eventually Solitario Canyon).

UTM NAD27 coordinates E 535336 N 4073644 meters.

Spectral site 0919-1.

Two composited samples taken 1 m apart using the metal cylinder press.

Cylinder is 5.8 cm diameter and 5 cm height.

Collected with minimal exposure time to arid atmosphere; stored in 1 gal ziplock freezer bag.

Thin (<1cm) scree cover brushed away before sampling.

**Person(s) Who Collected Samples:** Randy Fedors

**Supplier:**

**Other:**

**CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES  
SAMPLE CUSTODY LOG ENTRY FORM**

**Sample Identification (Mandatory):** Jet-1 545774 4078224

**Sample Designation:** Lab#6

**Description of Sample (Mandatory):** Fine sandy loam soil; 1-6 cm depth

**Reference TOP or Scientific Notebook Entry:** Scientific Notebook #338, page 18

**Amount of Sample:** 264.2 cm<sup>3</sup>

**Size:**

**Date of Sample Receipt (Mandatory):** 9/18/00

**Date of Initial Log Entry (Mandatory):** 09/29/00

**By:** R. Fedors

**Sample Storage Location (Mandatory):** Building 51

**Collection Site (Reference Maps or Field Notes as Required):**

Jet Ridge mid-hillslope below caprock ledges on east-trending washes.

UTM NAD27 coordinates E 545774 N 4078224 meters.

Near Spectral Sites cap1xx.\* and cap2xx.\*

Two composited samples taken 1 m apart using the metal cylinder press.

Cylinder is 5.8 cm diameter and 5 cm height.

Collected with minimal exposure time to arid atmosphere; stored in 1 gal ziplock freezer bag.

**Person(s) Who Collected Samples:** David Farrell / Randy Fedors

**Supplier:**

**Other:**

**CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES  
SAMPLE CUSTODY LOG ENTRY FORM**

**Sample Identification (Mandatory):** 0919-2a 544038 4052978

**Sample Designation:** Lab#7

**Description of Sample (Mandatory):** Sandy loam to loamy sand soil;

cobbly pavement at 0.5-5.5 cm depth

**Reference TOP or Scientific Notebook Entry:** Scientific Notebook #338, page 29

**Amount of Sample:** 264.2 cm<sup>3</sup>

**Size:**

**Date of Sample Receipt (Mandatory):** 9/19/00

**Date of Initial Log Entry (Mandatory):** 09/29/00

**By:** R. Fedors

**Sample Storage Location (Mandatory):** Building 51

**Collection Site (Reference Maps or Field Notes as Required):**

Middle of Amargosa Desert, between Amargosa Farms and Big Dune.

Distributed channel/sheetwash area

UTM NAD27 coordinates E 544038 N 4052978 meters.

Spectral site 0919-2.

Two composited samples taken 1 m apart using the metal cylinder press.

Cylinder is 5.8 cm diameter and 5 cm height.

Collected with minimal exposure time to arid atmosphere; stored in 1 gal ziplock freezer bag.

**Person(s) Who Collected Samples:** Randy Fedors

**Supplier:**

**Other:**

**CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES  
SAMPLE CUSTODY LOG ENTRY FORM**

**Sample Identification (Mandatory):** 0919-2b 544038 4052978

**Sample Designation:** Lab#8

**Description of Sample (Mandatory):** Sandy loam to loamy sand soil; 14-19 cm depth

**Reference TOP or Scientific Notebook Entry:** Scientific Notebook #338, page 29

**Amount of Sample:** 264.2 cm<sup>3</sup>

**Size:**

**Date of Sample Receipt (Mandatory):** 9/19/00

**Date of Initial Log Entry (Mandatory):** 09/29/00

**By:** R. Fedors

**Sample Storage Location (Mandatory):** Building 51

**Collection Site (Reference Maps or Field Notes as Required):**

Middle of Amargosa Desert, between Amargosa Farms and Big Dune.

Distributed channel/sheetwash area

UTM NAD27 coordinates E 544038 N 4052978 meters.

Spectral site 0919-2.

Two composited samples taken 1 m apart using the metal cylinder press.

Cylinder is 5.8 cm diameter and 5 cm height.

Collected with minimal exposure time to arid atmosphere; stored in 1 gal ziplock freezer bag.

**Person(s) Who Collected Samples:** Randy Fedors

**Supplier:**

**Other:**

Busted Butte

Assign to: Jude McMurry

# CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES

## SAMPLE CUSTODY LOG ENTRY FORM

SAMPLE IDENTIFICATION (Mandatory) BB1

SAMPLE DESIGNATION

DESCRIPTION OF SAMPLE (Mandatory) Busted Butte Phase II mineback; friable, nonwelded vitric tuff  
from the top of the mineback wall; possibly Ttpv2 according to USGS geologist

REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY Sci Ntbk 428, p. 33-37

AMOUNT OF SAMPLE *large block* SIZE *8" x 8" x 10"*

DATE OF SAMPLE RECEIPT (Mandatory) May 22, 2001

DATE OF INITIAL LOG ENTRY (Mandatory) 6/8/01 BY R. Fedors

SAMPLE STORAGE LOCATION (Mandatory) Bldg 51, SwRI; plastic wrap & duct tape, labeled on tape

COLLECTION SITE (Reference Maps or Field Notes As Required)

Busted Butte Underground Facility; see page 34 of Sci Ntbk #428.

PERSON(S) WHO COLLECTED SAMPLE(S) R. Fedors

SUPPLIER

OTHER

# CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES

## SAMPLE CUSTODY LOG ENTRY FORM

|                                                                                                                                                                                                                  |                          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| <b>SAMPLE IDENTIFICATION (Mandatory)</b> BB2                                                                                                                                                                     |                          |
| <b>SAMPLE DESIGNATION</b>                                                                                                                                                                                        |                          |
| <b>DESCRIPTION OF SAMPLE (Mandatory)</b> Busted Butte Phase II mineback; friable, nonwelded vitric tuff from the upper portion of the Tptpv1 layer                                                               |                          |
| <b>REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY</b> Sci Ntbk 428, p. 33-37                                                                                                                                         |                          |
| <b>AMOUNT OF SAMPLE</b> large block                                                                                                                                                                              | <b>SIZE</b> 8" x 8" x 9" |
| <b>DATE OF SAMPLE RECEIPT (Mandatory)</b> May 22, 2001                                                                                                                                                           |                          |
| <b>DATE OF INITIAL LOG ENTRY (Mandatory)</b> 6/8/01                                                                                                                                                              | <b>BY</b> R. Fedors      |
| <b>SAMPLE STORAGE LOCATION (Mandatory)</b> Bldg 51, SwRI; plastic wrap & duct tape, labeled on tape                                                                                                              |                          |
| <b>COLLECTION SITE (Reference Maps or Field Notes As Required)</b>                                                                                                                                               |                          |
| Busted Butte Underground Facility; see page 34 of Sci Ntbk #428.                                                                                                                                                 |                          |
|                                                                                                                                                                                                                  |                          |
|                                                                                                                                                                                                                  |                          |
|                                                                                                                                                                                                                  |                          |
|                                                                                                                                                                                                                  |                          |
|                                                                                                                                                                                                                  |                          |
|                                                                                                                                                                                                                  |                          |
| <b>PERSON(S) WHO COLLECTED SAMPLE(S)</b> R. Fedors                                                                                                                                                               |                          |
|                                                                                                                                                                                                                  |                          |
| <b>SUPPLIER</b>                                                                                                                                                                                                  |                          |
| <b>OTHER</b> Sample BB2 used for testing of drilling techniques for air permeability (in-situ). Sample should no longer be used for any other analyses. It is now stored on rock shelves in Bldg 51. RUF 5/21/03 |                          |

# CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES

## SAMPLE CUSTODY LOG ENTRY FORM

SAMPLE IDENTIFICATION (Mandatory) BB3

SAMPLE DESIGNATION

DESCRIPTION OF SAMPLE (Mandatory) Busted Butte Phase II mineback; friable, nonwelded vitric tuff  
from the middle portion of the Tptpv1 layer

REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY Sci Ntbk 428, p. 33-37

AMOUNT OF SAMPLE large block SIZE 8" x 8" x 9"

DATE OF SAMPLE RECEIPT (Mandatory) May 22, 2001

DATE OF INITIAL LOG ENTRY (Mandatory) 6/8/01 BY R. Fedors

SAMPLE STORAGE LOCATION (Mandatory) Bldg 51, SwRI; plastic wrap & duct tape, labeled on tape

COLLECTION SITE (Reference Maps or Field Notes As Required)

Busted Butte Underground Facility; see page 34 of Sci Ntbk #428.

PERSON(S) WHO COLLECTED SAMPLE(S) R. Fedors

SUPPLIER

OTHER



# CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES

## SAMPLE CUSTODY LOG ENTRY FORM

SAMPLE IDENTIFICATION (Mandatory) BB4

SAMPLE DESIGNATION

DESCRIPTION OF SAMPLE (Mandatory) Busted Butte Phase II mineback; friable, nonwelded vitric tuff  
from the lower portion of the Tptpv1 layer

REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY Sci Ntbk 428, p. 33-37

AMOUNT OF SAMPLE large prism shaped block SIZE 7" x 7" x 8"

DATE OF SAMPLE RECEIPT (Mandatory) May 22, 2001

DATE OF INITIAL LOG ENTRY (Mandatory) 6/8/01 BY R. Fedors

SAMPLE STORAGE LOCATION (Mandatory) Bldg 51, SwRI; plastic wrap & duct tape, labeled on tape

COLLECTION SITE (Reference Maps or Field Notes As Required)

Busted Butte Underground Facility; see page 34 of Sci Ntbk #428.

PERSON(S) WHO COLLECTED SAMPLE(S) R. Fedors

SUPPLIER

OTHER

# CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES

## SAMPLE CUSTODY LOG ENTRY FORM

|                                                                                                                                   |             |                       |
|-----------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| SAMPLE IDENTIFICATION (Mandatory)                                                                                                 |             | BB5                   |
| SAMPLE DESIGNATION                                                                                                                |             |                       |
| DESCRIPTION OF SAMPLE (Mandatory)                                                                                                 |             |                       |
| Busted Butte Phase II mineback; friable, nonwelded vitric tuff<br>from above the ash layer in the upper portion of the CHnv layer |             |                       |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY                                                                                        |             |                       |
| Sci Ntbk 428, p. 33-37                                                                                                            |             |                       |
| AMOUNT OF SAMPLE                                                                                                                  | large block | SIZE 8" x 9" x 9 1/2" |
| DATE OF SAMPLE RECEIPT (Mandatory)                                                                                                |             | May 22, 2001          |
| DATE OF INITIAL LOG ENTRY (Mandatory)                                                                                             |             | 6/8/01                |
| BY                                                                                                                                |             | R. Fedors             |
| SAMPLE STORAGE LOCATION (Mandatory)                                                                                               |             |                       |
| Bldg 51, SwRI; plastic wrap & duct tape, labeled on tape                                                                          |             |                       |
| COLLECTION SITE (Reference Maps or Field Notes As Required)                                                                       |             |                       |
| Busted Butte Underground Facility; see page 34 of Sci Ntbk #428.                                                                  |             |                       |
| PERSON(S) WHO COLLECTED SAMPLE(S)                                                                                                 |             |                       |
| R. Fedors                                                                                                                         |             |                       |
| SUPPLIER                                                                                                                          |             |                       |
| OTHER                                                                                                                             |             |                       |

# CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES

## SAMPLE CUSTODY LOG ENTRY FORM

SAMPLE IDENTIFICATION (Mandatory) BB6

SAMPLE DESIGNATION

DESCRIPTION OF SAMPLE (Mandatory) Busted Butte Phase II mineback; friable, nonwelded vitric tuff  
from above the ash layer in the upper portion of the CHnv layer

REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY Sci Ntbk 428, p. 33-37

AMOUNT OF SAMPLE

large block

SIZE

8" x 9" x 9"

DATE OF SAMPLE RECEIPT (Mandatory) May 22, 2001

DATE OF INITIAL LOG ENTRY (Mandatory) 6/8/01

BY R. Fedors

SAMPLE STORAGE LOCATION (Mandatory) Bldg 51, SwRI; plastic wrap & duct tape, labeled on tape

COLLECTION SITE (Reference Maps or Field Notes As Required)

Busted Butte Underground Facility; see page 34 of Sci Ntbk #428.

PERSON(S) WHO COLLECTED SAMPLE(S) R. Fedors

SUPPLIER

OTHER

# CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES

## SAMPLE CUSTODY LOG ENTRY FORM

SAMPLE IDENTIFICATION (Mandatory) BB7

SAMPLE DESIGNATION

DESCRIPTION OF SAMPLE (Mandatory) Busted Butte Phase II mineback; friable, nonwelded vitric tuff  
from below the ash layer in middle portion of the CHnv layer

REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY Sci Ntbk 428, p. 33-37

AMOUNT OF SAMPLE irregular-shaped block SIZE 7" x 8" x 1 1/2"

DATE OF SAMPLE RECEIPT (Mandatory) May 22, 2001

DATE OF INITIAL LOG ENTRY (Mandatory) 6/8/01 BY R. Fedors

SAMPLE STORAGE LOCATION (Mandatory) Bldg 51, SwRI; plastic wrap & duct tape, labeled on tape

COLLECTION SITE (Reference Maps or Field Notes As Required)

Busted Butte Underground Facility; see page 34 of Sci Ntbk #428.

PERSON(S) WHO COLLECTED SAMPLE(S) R. Fedors

SUPPLIER

OTHER

# CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES

## SAMPLE CUSTODY LOG ENTRY FORM

|                                                                                                            |             |                   |
|------------------------------------------------------------------------------------------------------------|-------------|-------------------|
| SAMPLE IDENTIFICATION (Mandatory)                                                                          |             | BB8               |
| SAMPLE DESIGNATION                                                                                         |             |                   |
| DESCRIPTION OF SAMPLE (Mandatory)                                                                          |             |                   |
| Busted Butte Phase II mineback; friable, nonwelded vitric tuff                                             |             |                   |
| from below the ash layer in the middle to lower portion of the CHnv layer (near the floor of the mineback) |             |                   |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY                                                                 |             |                   |
| Sci Ntbk 428, p. 33-37                                                                                     |             |                   |
| AMOUNT OF SAMPLE                                                                                           | large block | SIZE 9" x 9" x 9" |
| DATE OF SAMPLE RECEIPT (Mandatory)                                                                         |             | May 22, 2001      |
| DATE OF INITIAL LOG ENTRY (Mandatory)                                                                      |             | 6/8/01            |
|                                                                                                            |             | BY R. Fedors      |
| SAMPLE STORAGE LOCATION (Mandatory)                                                                        |             |                   |
| Bldg 51, SwRI; plastic wrap & duct tape, labeled on tape                                                   |             |                   |
| COLLECTION SITE (Reference Maps or Field Notes As Required)                                                |             |                   |
| Busted Butte Underground Facility; see page 34 of Sci Ntbk #428.                                           |             |                   |
|                                                                                                            |             |                   |
|                                                                                                            |             |                   |
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|                                                                                                            |             |                   |
|                                                                                                            |             |                   |
|                                                                                                            |             |                   |
|                                                                                                            |             |                   |
|                                                                                                            |             |                   |
| PERSON(S) WHO COLLECTED SAMPLE(S)                                                                          |             |                   |
| R. Fedors                                                                                                  |             |                   |
|                                                                                                            |             |                   |
| SUPPLIER                                                                                                   |             |                   |
|                                                                                                            |             |                   |
| OTHER                                                                                                      |             |                   |
|                                                                                                            |             |                   |
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|                                                                                                            |             |                   |

# CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES

## SAMPLE CUSTODY LOG ENTRY FORM

|                                                                                |  |                 |
|--------------------------------------------------------------------------------|--|-----------------|
| SAMPLE IDENTIFICATION (Mandatory)                                              |  | BB9-01          |
| SAMPLE DESIGNATION                                                             |  |                 |
| DESCRIPTION OF SAMPLE (Mandatory)                                              |  |                 |
| Busted Butte Phase II mineback; friable, nonwelded vitric tuff                 |  |                 |
| with set of conjugate normal faults crossing the ash layer in the CHnv horizon |  |                 |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY                                     |  |                 |
| Sci Ntbk 428, p. 33-37                                                         |  |                 |
| AMOUNT OF SAMPLE                                                               |  | large block     |
| SIZE                                                                           |  | 10" x 12" x 12" |
| DATE OF SAMPLE RECEIPT (Mandatory)                                             |  | May 22, 2001    |
| DATE OF INITIAL LOG ENTRY (Mandatory)                                          |  | 6/8/01          |
| BY                                                                             |  | R. Fedors       |
| SAMPLE STORAGE LOCATION (Mandatory)                                            |  |                 |
| Utah State University in Dr. James Evans' laboratory;                          |  |                 |
| plastic wrap & duct tape, labeled on tape                                      |  |                 |
| COLLECTION SITE (Reference Maps or Field Notes As Required)                    |  |                 |
| Busted Butte Underground Facility; see page 36 of Sci Ntbk #428.               |  |                 |
| PERSON(S) WHO COLLECTED SAMPLE(S)                                              |  |                 |
| R. Fedors and James Evans                                                      |  |                 |
| SUPPLIER                                                                       |  |                 |
| OTHER                                                                          |  |                 |
|                                                                                |  |                 |
|                                                                                |  |                 |
|                                                                                |  |                 |

# CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES

## SAMPLE CUSTODY LOG ENTRY FORM

|                                                                                           |             |              |
|-------------------------------------------------------------------------------------------|-------------|--------------|
| SAMPLE IDENTIFICATION (Mandatory)                                                         |             | BB10-01      |
| SAMPLE DESIGNATION                                                                        |             |              |
| DESCRIPTION OF SAMPLE (Mandatory)                                                         |             |              |
| Busted Butte Phase II mineback; friable, nonwelded vitric tuff                            |             |              |
| with set of conjugate normal faults in the massive portion of the CHnv below the as layer |             |              |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY                                                |             |              |
| Sci Ntbk 428, p. 33-37                                                                    |             |              |
| AMOUNT OF SAMPLE                                                                          | large block | SIZE         |
|                                                                                           |             | 9" x 9" x 9" |
| DATE OF SAMPLE RECEIPT (Mandatory)                                                        |             | May 22, 2001 |
| DATE OF INITIAL LOG ENTRY (Mandatory)                                                     |             | 6/8/01       |
| BY                                                                                        |             | R. Fedors    |
| SAMPLE STORAGE LOCATION (Mandatory)                                                       |             |              |
| Utah State University in Dr. James Evans' laboratory;                                     |             |              |
| plastic wrap & duct tape, labeled on tape                                                 |             |              |
| COLLECTION SITE (Reference Maps or Field Notes As Required)                               |             |              |
| Busted Butte Underground Facility; see page 36 of Sci Ntbk #428.                          |             |              |
| PERSON(S) WHO COLLECTED SAMPLE(S)                                                         |             |              |
| R. Fedors and James Evans                                                                 |             |              |
| SUPPLIER                                                                                  |             |              |
| OTHER                                                                                     |             |              |
|                                                                                           |             |              |
|                                                                                           |             |              |
|                                                                                           |             |              |

Bishop Tuff

Assign to: C. Dinwiddie



# CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES

## SAMPLE CUSTODY LOG ENTRY FORM

**SAMPLE IDENTIFICATION (Mandatory)** 061401-1

**SAMPLE DESIGNATION**

**DESCRIPTION OF SAMPLE (Mandatory)** Bishop Tuff, nonwelded basal bedded tuff,  
pumice clast supported; disturbed sample, known volume taken for bulk density

**REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY** Sci Ntbk 428, p. 47-55

**AMOUNT OF SAMPLE** nearly full 1 gallon ziplock bag **SIZE**

**DATE OF SAMPLE RECEIPT (Mandatory)** June 14, 2001

**DATE OF INITIAL LOG ENTRY (Mandatory)** 8/13/01 **BY** R. Fedors

**SAMPLE STORAGE LOCATION (Mandatory)** Bldg 51; labeled 1 gallon ziplock bag

**COLLECTION SITE (Reference Maps or Field Notes As Required)**

Southernmost sample at Horton Creek site near Bishop, CA; see Sci Ntbk #428, pages 47-55

**PERSON(S) WHO COLLECTED SAMPLE(S)** R. Fedors

**SUPPLIER**

**OTHER**

# CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES

## SAMPLE CUSTODY LOG ENTRY FORM

**SAMPLE IDENTIFICATION (Mandatory)** 061401-2

**SAMPLE DESIGNATION**

**DESCRIPTION OF SAMPLE (Mandatory)** Bishop Tuff, nonwelded basal bedded tuff,  
pumice clast supported; disturbed sample, known volume taken for bulk density

**REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY** Sci Ntbk 428, p. 47-55

**AMOUNT OF SAMPLE** nearly full 1 gallon ziplock bag **SIZE**

**DATE OF SAMPLE RECEIPT (Mandatory)** June 14, 2001

**DATE OF INITIAL LOG ENTRY (Mandatory)** 8/13/01 **BY** R. Fedors

**SAMPLE STORAGE LOCATION (Mandatory)** Bldg 51; labeled 1 gallon ziplock bag

**COLLECTION SITE (Reference Maps or Field Notes As Required)**

Northernmost sample at Horton Creek site near Bishop, CA; see Sci Ntbk #428, pages 47-55

**PERSON(S) WHO COLLECTED SAMPLE(S)** R. Fedors

**SUPPLIER**

**OTHER**

# CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES

## SAMPLE CUSTODY LOG ENTRY FORM

SAMPLE IDENTIFICATION (Mandatory) 061401-3

SAMPLE DESIGNATION

DESCRIPTION OF SAMPLE (Mandatory) Bishop Tuff, nonwelded ignimbrite tuff,  
unoriented, "undisturbed," sample block taken for bulk density estimate

REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY Sci Ntbk 428, p. 47-55

AMOUNT OF SAMPLE *irregular-shaped chunk* SIZE *3" x 4" x 6"*

DATE OF SAMPLE RECEIPT (Mandatory) June 14, 2001

DATE OF INITIAL LOG ENTRY (Mandatory) 8/13/01 BY R. Fedors

SAMPLE STORAGE LOCATION (Mandatory) Bldg 51; plastic wrap & duct tape, labeled on tape

COLLECTION SITE (Reference Maps or Field Notes As Required)

Alcove area of Borrow Pit near mouth of Fish Slough north of Bishop, CA; see Sci Ntbk #428, pages 47-55

PERSON(S) WHO COLLECTED SAMPLE(S) R. Fedors

SUPPLIER

OTHER

# CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES

## SAMPLE CUSTODY LOG ENTRY FORM

SAMPLE IDENTIFICATION (Mandatory) 061401-4

SAMPLE DESIGNATION

DESCRIPTION OF SAMPLE (Mandatory) Bishop Tuff, nonwelded ignimbrite tuff,  
unoriented, "undisturbed," sample block taken for bulk density estimate

REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY Sci Ntbk 428, p. 47-55

AMOUNT OF SAMPLE *irregular-shaped chunk* SIZE *3" x 3 1/2" x 7"*

DATE OF SAMPLE RECEIPT (Mandatory) June 14, 2001

DATE OF INITIAL LOG ENTRY (Mandatory) 8/13/01 BY R. Fedors

SAMPLE STORAGE LOCATION (Mandatory) Bldg 51; plastic wrap & duct tape, labeled on tape

COLLECTION SITE (Reference Maps or Field Notes As Required)

Alcove area of Borrow Pit near mouth of Fish Slough north of Bishop, CA; see Sci Ntbk #428, pages 47-55

PERSON(S) WHO COLLECTED SAMPLE(S) R. Fedors

SUPPLIER

OTHER

## SAMPLE CUSTODY ENTRY FORM

SAMPLE IDENTIFICATION (Mandatory) CCHW1.GP1/2

SAMPLE  
DESIGNATOR \_\_\_\_\_

DESCRIPTION OF SAMPLE (Mandatory): Nonwelded tuff collected from basal portion Bishop Tuff near Bishop, California for estimating field bulk density.

REFERENCE SCIENTIFIC NOTEBOOK ENTRY: Collected by Bradbury, sci ntbk #515, page 34  
(pages 60-61 of yellow field notebook taped onto page 34 of sci ntbk #515)

AMOUNT OF SAMPLE SIZE 6.0cm x 4.5cm x 3.5 cm

DATE OF SAMPLE RECEIPT (Mandatory): June 26, 2002

DATE OF LOG ENTRY: August 12, 2002 BY: R. Fedors  
(Mandatory)

SAMPLE STORAGE LOCATION (Mandatory): Building 51 laboratory

### COLLECTION SITE:

Chalk Cove area, lower fault transect, which is called CCHW1 (0-3m)

155 cm north of 142.5 cm location along CCHW1 transect line

Supplier:

Other:

## SAMPLE CUSTODY ENTRY FORM

SAMPLE IDENTIFICATION (Mandatory) CCHW1-GP4

SAMPLE  
DESIGNATOR \_\_\_\_\_

DESCRIPTION OF SAMPLE (Mandatory): Nonwelded tuff collected from basal portion Bishop Tuff near Bishop, California. Volume-sample was sealed and wrapped intact (hopefully) to measure volume in lab to get field bulk density.

REFERENCE SCIENTIFIC NOTEBOOK ENTRY: Collected by Bradbury sci ntbk #515, page 34  
(pages 60-61 of yellow field notebook taped onto page 34 of sci ntbk #515)

AMOUNT OF SAMPLE SIZE 128 cm<sup>3</sup> (estimated in lab by submersion)

DATE OF SAMPLE RECEIPT (Mandatory): June 26, 2002

DATE OF LOG ENTRY: August 12, 2002 BY: R. Fedors  
(Mandatory)

SAMPLE STORAGE LOCATION (Mandatory): Building 51 laboratory

### COLLECTION SITE:

Chalk Cove area, lower fault transect, which is called CCHW1 (3-6m)

2 cm north of CCHW1 transect line distance of 547.5 cm

Supplier:

Other:

## SAMPLE CUSTODY ENTRY FORM

SAMPLE IDENTIFICATION (Mandatory) CCHW1.GP5

SAMPLE  
DESIGNATOR \_\_\_\_\_

DESCRIPTION OF SAMPLE (Mandatory): Nonwelded tuff collected from basal portion Bishop Tuff near Bishop, California for estimating field bulk density.

REFERENCE SCIENTIFIC NOTEBOOK ENTRY: Collected by Bradbury sci ntbk #515, page 34  
(pages 60-61 of yellow field notebook taped onto page 34 of sci ntbk #515)

AMOUNT OF SAMPLE SIZE 13.0cm x 9.0cm x 3.5 cm

DATE OF SAMPLE RECEIPT (Mandatory): June 26, 2002

DATE OF LOG ENTRY: August 12, 2002 BY: R. Fedors  
(Mandatory)

SAMPLE STORAGE LOCATION (Mandatory): Building 51 laboratory

### COLLECTION SITE:

Chalk Cove area, lower fault transect, which is called CCHW1 (0-3m)

location: 20 cm south of CCHW1 transect line distance of 215 cm

Supplier:

Other:

## SAMPLE CUSTODY ENTRY FORM

SAMPLE IDENTIFICATION (Mandatory) CC2.GP1

SAMPLE  
DESIGNATOR \_\_\_\_\_

DESCRIPTION OF SAMPLE (Mandatory): Nonwelded tuff collected from basal portion Bishop Tuff near  
Bishop, California for estimating field bulk density.

REFERENCE SCIENTIFIC NOTEBOOK ENTRY: Collected by Bradbury sci ntbk #515, page 35  
(pages 62 of yellow field notebook taped onto page 35 of sci ntbk #515)

AMOUNT OF SAMPLE SIZE 4.5cm x 3.5cm x 9.0 cm

DATE OF SAMPLE RECEIPT (Mandatory): June 26, 2002

DATE OF LOG ENTRY: August 12, 2002 BY: R. Fedors  
(Mandatory)

SAMPLE STORAGE LOCATION (Mandatory): Building 51 laboratory

### COLLECTION SITE:

Chalk Cove area, upper fault transect, which is called CC2  
near 100-cm location along CC2 transect

Supplier:

Other:



## SAMPLE CUSTODY ENTRY FORM

SAMPLE IDENTIFICATION (Mandatory) CC2.GP2

SAMPLE  
DESIGNATOR \_\_\_\_\_

DESCRIPTION OF SAMPLE (Mandatory): Nonwelded tuff collected from basal portion Bishop Tuff near Bishop, California for estimating field bulk density.

REFERENCE SCIENTIFIC NOTEBOOK ENTRY: Collected by Bradbury sci ntbk #515, page 35  
(pages 62 of yellow field notebook taped onto page 35 of sci ntbk #515)

AMOUNT OF SAMPLE SIZE 9.0cm x 6.0cm x 7.0 cm

DATE OF SAMPLE RECEIPT (Mandatory): June 26, 2002

DATE OF LOG ENTRY: August 12, 2002 BY: R. Fedors  
(Mandatory)

SAMPLE STORAGE LOCATION (Mandatory): Building 51 laboratory

### COLLECTION SITE:

Chalk Cove area, upper fault transect, which is called CC2

1.26 m north of transect, corresponding to the 200-cm location along CC2 transect

Supplier:

Other:

## SAMPLE CUSTODY ENTRY FORM

SAMPLE IDENTIFICATION (Mandatory) CC2.GP3

SAMPLE  
DESIGNATOR \_\_\_\_\_

DESCRIPTION OF SAMPLE (Mandatory): Nonwelded tuff collected from basal portion Bishop Tuff near  
Bishop, California for estimating field bulk density.

REFERENCE SCIENTIFIC NOTEBOOK ENTRY: Collected by Bradbury sci ntbk #515, page 35

(pages 62 of yellow field notebook taped onto page 35 of sci ntbk #515)

AMOUNT OF SAMPLE SIZE 6.0cm x 9.0cm x 6.5 cm

DATE OF SAMPLE RECEIPT (Mandatory): June 26, 2002

DATE OF LOG ENTRY: August 12, 2002 BY: R. Fedors  
(Mandatory)

SAMPLE STORAGE LOCATION (Mandatory): Building 51 laboratory

### COLLECTION SITE:

Chalk Cove area, upper fault transect, which is called CC2

near 350-cm location along CC2 transect

Supplier:

Other:

|                                                                                                                                                                     |                                                                                                |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| <b>ENTER FOR NUCLEAR WASTE<br/>REGULATORY ANALYSES</b><br><br><b>TECHNICAL OPERATING PROCEDURE</b>                                                                  | Proc. <u>TOP-012</u><br><br>Revision <u>2</u> Change <u>0</u><br><br>Page <u>6</u> of <u>6</u> |
| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br><br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM                                                                           |                                                                                                |
| SAMPLE IDENTIFICATION (Mandatory) <u>YM-01-01</u>                                                                                                                   |                                                                                                |
| DESCRIPTION OF SAMPLE (Mandatory) <u>Tpy - yucca mtn. tuff</u><br><u>brown flow unit, some crystals; good</u><br><u>weathering, elongate black lithic fragments</u> |                                                                                                |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p12 Scientific</u><br><u>Notebook #476</u>                                                                            |                                                                                                |
| AMOUNT OF SAMPLE                                                                                                                                                    | SIZE                                                                                           |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>5/23/01</u>                                                                                                                   |                                                                                                |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>5/23/01</u> BY <u>J.P. Evans</u>                                                                                           |                                                                                                |
| <u>10/07/02 Kelsey K Bradley</u>                                                                                                                                    |                                                                                                |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                                                                                      |                                                                                                |
| COLLECTION SITE (Reference Maps or Field Notes As Required)                                                                                                         |                                                                                                |
| <u>sidehill traverse down to Ptn units - near</u>                                                                                                                   |                                                                                                |
| <u>Yucca Mtn. ridge, NV</u>                                                                                                                                         |                                                                                                |
| <u>elev of 1382 UTM 0547427</u>                                                                                                                                     |                                                                                                |
| <u>4078383</u>                                                                                                                                                      |                                                                                                |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>James P. Evans</u>                                                                                                             |                                                                                                |
| SUPPLIER                                                                                                                                                            |                                                                                                |
| OTHER <u>Subsample = YM-01-TS1</u>                                                                                                                                  |                                                                                                |
| <u>thin-section subsample id</u>                                                                                                                                    |                                                                                                |
| CNWRA FORM TOP-004                                                                                                                                                  |                                                                                                |

KCB 10/07/02

Attachment A

|                                                                                                                                           |                                                                                        |
|-------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| <b>ENTER FOR NUCLEAR WASTE<br/>REGULATORY ANALYSES</b><br><br><b>TECHNICAL OPERATING PROCEDURE</b>                                        | Proc. <u>TOP-012</u><br>Revision <u>2</u> Change <u>0</u><br>Page <u>6</u> of <u>6</u> |
| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM                                                     |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>YM-02-01</u>                                                                                         |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>taken from within what</u><br><u>appears to be sequence of Pre-Pah Canyon bedded</u><br><u>units</u> |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p.13 # 476</u>                                                                              |                                                                                        |
| AMOUNT OF SAMPLE                                                                                                                          | SIZE                                                                                   |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>5/23/01</u>                                                                                         |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>5/23/01</u> BY <u>J P Evans</u>                                                                  |                                                                                        |
| <u>10/07/02 Kelly K Bradbury</u>                                                                                                          |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                                                            |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)                                                                               |                                                                                        |
| <u>refer to notes p 13 #476</u>                                                                                                           |                                                                                        |
| <u>Yucca Mtn Ridge Area</u>                                                                                                               |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>James P. Evans</u>                                                                                   |                                                                                        |
| SUPPLIER                                                                                                                                  |                                                                                        |
| OTHER <u>Subsample YM-02-TS2</u>                                                                                                          |                                                                                        |
| <u>-thin section subsample id</u>                                                                                                         |                                                                                        |
| CNWRA FORM TOP-004                                                                                                                        |                                                                                        |

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| <b>ENTER FOR NUCLEAR WASTE<br/>REGULATORY ANALYSES</b><br><br><b>TECHNICAL OPERATING PROCEDURE</b>                                                                                              | Proc. <u>TOP-012</u><br><br>Revision <u>2</u> Change <u>0</u><br><br>Page <u>6</u> of <u>6</u> |
| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br><br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM                                                                                                       |                                                                                                |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-01-01</u>                                                                                                                                               |                                                                                                |
| DESCRIPTION OF SAMPLE (Mandatory) <u>fault surface sample</u><br><u>coating with pumice fragments; w/ thick FeOx</u><br><u>coating; Fault strikes 610°E / 70°NE</u>                             |                                                                                                |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>pd 5 # 476</u><br><u>p 36</u>                                                                                                                     |                                                                                                |
| AMOUNT OF SAMPLE                                                                                                                                                                                | SIZE <u>4 cm sample of fault zone</u>                                                          |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>6/13/01</u>                                                                                                                                               |                                                                                                |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>6/13/01</u> BY <u>J.P. Evans</u><br><u>10/07/02 Kelly K. Bradbury</u>                                                                                  |                                                                                                |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                                                                                                                  |                                                                                                |
| COLLECTION SITE (Reference Maps or Field Notes As Required)<br><u>Horton Creek ; Fish Slough Quadrangle T6S, R32E, sec 29</u><br><u>CALIFORNIA</u><br><u>Loc on page 36 (relative to fault)</u> |                                                                                                |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>James P. Evans</u>                                                                                                                                         |                                                                                                |
| SUPPLIER                                                                                                                                                                                        |                                                                                                |
| OTHER <u>Subsample* : BT-01-TS1 - thin section</u><br><u>BT-01-XRD1 - xrd</u>                                                                                                                   |                                                                                                |
| <u>* Subsamples taken by Kelly K. Bradbury</u>                                                                                                                                                  |                                                                                                |
| CNWRA FORM TOP-004                                                                                                                                                                              |                                                                                                |

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| <b>ENTER FOR NUCLEAR WASTE<br/>REGULATORY ANALYSES</b><br><br><b>TECHNICAL OPERATING PROCEDURE</b>                             | Proc. <u>TOP-012</u><br>Revision <u>2</u> Change <u>0</u><br>Page <u>6</u> of <u>6</u> |
| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM                                          |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-02-01</u>                                                                              |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>Slip surface at Chalk</u><br><u>Cave fault</u>                                            |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p26 # 476</u>                                                                    |                                                                                        |
| AMOUNT OF SAMPLE <u>1</u>                                                                                                      | SIZE <u>3cm x 1cm</u>                                                                  |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>6/13/01</u>                                                                              |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>6/13/01</u>                                                                           | BY <u>J.P. Evans</u>                                                                   |
| <u>10/07/02</u> <u>Kelley Bradbury</u>                                                                                         |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                                                 |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)<br><u>Chalk cave site; Fish South Quad; CALI-</u><br><u>Bishop</u> |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>J.P. Evans</u>                                                                            |                                                                                        |
| SUPPLIER                                                                                                                       |                                                                                        |
| OTHER                                                                                                                          |                                                                                        |
|                                                                                                                                |                                                                                        |
| CNWRA FORM TOP-004                                                                                                             |                                                                                        |

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| <b>ENTER FOR NUCLEAR WASTE<br/>REGULATORY ANALYSES</b><br><br><b>TECHNICAL OPERATING PROCEDURE</b>                                          | Proc. <u>TOP-012</u><br>Revision <u>2</u> Change <u>0</u><br>Page <u>6</u> of <u>6</u> |
| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM                                                       |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-03-01</u>                                                                                           |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>Hanging-wall Tuff</u><br><u>Sample</u>                                                                 |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p26 # 476</u>                                                                                 |                                                                                        |
| AMOUNT OF SAMPLE                                                                                                                            | SIZE <u>5 cm max long TL</u>                                                           |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>06/13/01</u>                                                                                          |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>10/07/02</u> BY <u>Kecely K Bradbury</u>                                                           |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory)                                                                                                         |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)<br><u>Chalk cave site; Bishop, CA - Fish Ranch Road</u>                         |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>James P. Evans</u>                                                                                     |                                                                                        |
| SUPPLIER                                                                                                                                    |                                                                                        |
| OTHER <u>Subsample*: BT-03-TS1 = Thin section</u><br><u>BT-03-XRD1 = X-ray diffraction</u><br><u>*Subsamples taken by Kelly K. Bradbury</u> |                                                                                        |
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| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM              |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-04-01</u>                                                  |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>Fault slip surface sample</u>                                 |                                                                                        |
|                                                                                                    |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY                                                         |                                                                                        |
|                                                                                                    |                                                                                        |
| AMOUNT OF SAMPLE                                                                                   | SIZE <u>4cm x 1cm</u>                                                                  |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>12/14/01</u>                                                 |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>10/07/02</u>                                              | BY <u>Kelly K. Bradbury</u>                                                            |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                     |                                                                                        |
|                                                                                                    |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)                                        |                                                                                        |
| <u>Bishop Borrow Pit</u>                                                                           |                                                                                        |
|                                                                                                    |                                                                                        |
|                                                                                                    |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>James P. Evans</u>                                            |                                                                                        |
|                                                                                                    |                                                                                        |
| SUPPLIER                                                                                           |                                                                                        |
| OTHER <u>Subsample - BT-04-TS1</u>                                                                 |                                                                                        |
| <u>BT-04-Xrd1</u>                                                                                  |                                                                                        |
| <u>Subsamples taken by Kelly K. Bradbury</u>                                                       |                                                                                        |
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| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM              |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-05-01</u>                                                  |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>Foot slip surface sample</u>                                  |                                                                                        |
|                                                                                                    |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY                                                         |                                                                                        |
|                                                                                                    |                                                                                        |
| AMOUNT OF SAMPLE                                                                                   | SIZE <u>4 cm x 1 cm</u>                                                                |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>6/14/01</u>                                                  |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>10/07/02</u> BY <u>KK Bradley</u>                         |                                                                                        |
|                                                                                                    |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                     |                                                                                        |
|                                                                                                    |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)                                        |                                                                                        |
| <u>Bishop Borrow Pit</u>                                                                           |                                                                                        |
|                                                                                                    |                                                                                        |
|                                                                                                    |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>James P. Evans</u>                                            |                                                                                        |
|                                                                                                    |                                                                                        |
| SUPPLIER                                                                                           |                                                                                        |
|                                                                                                    |                                                                                        |
| OTHER                                                                                              | <u>BT-05-TS1</u> → <u>Subsamples</u>                                                   |
|                                                                                                    | <u>BT-05-XRD1</u> → <u>taken by Kelly K Bradley</u>                                    |
|                                                                                                    |                                                                                        |
| CNWRA FORM TOP-004                                                                                 |                                                                                        |

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| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM              |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-06-01</u>                                                  |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>From upper fault surface</u><br><u>@ Harten Creek outcrop</u> |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p 36 #476</u>                                        |                                                                                        |
| AMOUNT OF SAMPLE                                                                                   | SIZE <u>5 cm x 3 cm x 1 cm</u>                                                         |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>6/14/01</u>                                                  |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>10/07/02</u> BY <u>Kelly K. Bradbury</u>                  |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>6521</u>                                                    |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)                                        |                                                                                        |
| <u>Harten Creek Site p 36 #476</u>                                                                 |                                                                                        |
| <u>Bishop, CA</u>                                                                                  |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>James P. Evans</u>                                            |                                                                                        |
| SUPPLIER                                                                                           |                                                                                        |
| OTHER <u>BT-06-TS1</u> <u>7 Subsamples</u>                                                         |                                                                                        |
| <u>BT-06-XRD1</u> <u>Taken by Kelly K. Bradbury</u>                                                |                                                                                        |
| CNWRA FORM TOP-004                                                                                 |                                                                                        |

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| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM                                                 |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-07-01</u>                                                                                     |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>Fault contact between</u><br><u>Lacustrine &amp; ignimbrite sequence</u><br><u>Fault 602/10N</u> |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p. 6 # 486</u>                                                                          |                                                                                        |
| AMOUNT OF SAMPLE                                                                                                                      | SIZE                                                                                   |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>07/07/01</u>                                                                                    |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>10/07/02</u> BY <u>Kelly K. Bradbury</u>                                                     |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                                                        |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)<br><u>Horton Creek, Bishop, CA Fish Slough Quail</u>                      |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Jim P. Evans &amp; Kelly K. Bradbury</u>                                                         |                                                                                        |
| SUPPLIER                                                                                                                              |                                                                                        |
| OTHER <u>BT-07-TS1 - thin section</u> <u>3</u> subsamples                                                                             |                                                                                        |
| <u>BT-07-XRD1 - Xray (7a)</u> taken by                                                                                                |                                                                                        |
| <u>XRD2 (7b)</u> <u>- KKB</u>                                                                                                         |                                                                                        |
| CNWRA FORM TOP-004 <u>BT-07- SEMI - Scanning electron micro</u> <u>by JPE</u>                                                         |                                                                                        |

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| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM                                               |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-08-01</u>                                                                                   |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>Slightly cemented wall in</u><br><u>immediate hanging wall of</u><br><u>Horton Creek fault</u> |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p 6 #486</u>                                                                          |                                                                                        |
| AMOUNT OF SAMPLE                                                                                                                    | SIZE                                                                                   |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>07/07/01</u>                                                                                  |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>10/07/02</u> BY <u>Kelly K. Bradley</u>                                                    |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                                                      |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)<br><u>Horton Creek, Bishop, CA</u>                                      |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>K. K. Bradley</u><br><u>James P. Evans</u>                                                     |                                                                                        |
| SUPPLIER                                                                                                                            |                                                                                        |
| OTHER <u>BT-08-TS1</u> <u>BT-08-XRD1 (8a)</u> <u>XRD2 (8b)</u> } <u>Subsamples</u><br><u>by Kelly K. Bradley</u>                    |                                                                                        |
| CNWRA FORM TOP-004                                                                                                                  |                                                                                        |

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| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM                       |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-09-01</u>                                                           |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>Face opposite sample orient.</u><br><u>Line - N/S / 70; Fault Line</u> |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>plb #486</u>                                                  |                                                                                        |
| AMOUNT OF SAMPLE                                                                                            | SIZE <u>10cm x 3cm x 3cm</u>                                                           |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>07/07/01</u>                                                          |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>10/07/02</u> BY <u>Kelly K. Brachung</u>                           |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                              |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)<br><u>Horton Creek, Bishop, CA</u>              |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Kelly K. Brachung</u>                                                  |                                                                                        |
| SUPPLIER                                                                                                    |                                                                                        |
| OTHER <u>BT-09-TS1 - thin section subsample</u>                                                             |                                                                                        |
|                                                                                                             |                                                                                        |
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| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM                                         |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-10-01</u>                                                                             |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>perpendicular to fault plane</u><br><u>(S dip arrow) marker on</u><br><u>red surface</u> |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>pl #486</u>                                                                     |                                                                                        |
| AMOUNT OF SAMPLE                                                                                                              | SIZE <u>8cm x 4cm x 3cm</u>                                                            |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>7/7/01</u>                                                                              |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>10/07/02</u> BY <u>Kelly K. Bradbury</u>                                             |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                                                |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)<br><u>Horton Creek, Bishop, CA;</u><br><u>Site</u>                |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Kelly K. Bradbury</u>                                                                    |                                                                                        |
| SUPPLIER                                                                                                                      |                                                                                        |
| OTHER <u>BT-10-TS1 - trisection sub-sample</u>                                                                                |                                                                                        |
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| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM                                                            |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-11-01</u>                                                                                                |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>calcite filled fracture from</u><br><u>pavement map @ Borrow Pit site</u>                                   |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p. 7 # 486</u>                                                                                     |                                                                                        |
| AMOUNT OF SAMPLE                                                                                                                                 | SIZE <u>15cm x 10cm x 5cm</u>                                                          |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>7/7/01</u>                                                                                                 |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>10/07/02</u> BY <u>Kelley K. Bradbury</u>                                                               |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                                                                   |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)<br><u>Borrow Pit Site, Borrow Pit Quarry,</u><br><u>Fish Slough Road, Bishop, CA</u> |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Jim Evans &amp; Kelley Bradbury</u><br><u>and Craig Forster</u>                                             |                                                                                        |
| SUPPLIER                                                                                                                                         |                                                                                        |
| OTHER <u>BT-11-XRD1</u> <u>↳ subsamples</u><br><u>BT-11-XRD2</u> <u>↳</u>                                                                        |                                                                                        |
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| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM                                             |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-12-01</u>                                                                                 |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>poorly tension welded toff</u><br><u>within pavement map</u><br><u>East sample of trench</u> |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p. 9 #486</u>                                                                       |                                                                                        |
| AMOUNT OF SAMPLE                                                                                                                  | SIZE <u>30cm x 30cm x 30cm</u>                                                         |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>7/08/01</u>                                                                                 |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>10/07/02</u> BY <u>Kelly K Bradbury</u>                                                  |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                                                    |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)<br><u>Barrow Pit Site ; Bishop, CA</u>                                |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Kelly K. Bradbury</u><br><u>Craig Forsteg</u>                                                |                                                                                        |
| SUPPLIER                                                                                                                          |                                                                                        |
| OTHER                                                                                                                             |                                                                                        |
|                                                                                                                                   |                                                                                        |
| CNWRA FORM TOP-004                                                                                                                |                                                                                        |

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| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM              |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-13-01</u>                                                  |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>tuff w/in pavement map</u><br><u>West sample of trench</u>    |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p. 9 #486</u>                                        |                                                                                        |
| AMOUNT OF SAMPLE                                                                                   | SIZE <u>15cm x 20cm x 20cm</u>                                                         |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>7/08/01</u>                                                  |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>10/07/02</u> BY <u>Kelly K. Bradbury</u>                  |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                     |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)<br><u>Barn Pit Site, Bishop, CA</u>    |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Kelly K. Bradbury</u><br><u>Craig Forster</u>                 |                                                                                        |
| SUPPLIER                                                                                           |                                                                                        |
| OTHER                                                                                              |                                                                                        |
|                                                                                                    |                                                                                        |
| CNWRA FORM TOP-004                                                                                 |                                                                                        |

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| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM                                         |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-14-01</u>                                                                             |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>Pit 3 sample includes</u><br><u>West side of fault surface</u><br><u>non-welded tuff</u> |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p 9 #486</u>                                                                    |                                                                                        |
| AMOUNT OF SAMPLE                                                                                                              | SIZE <u>25cm x 15cm x 10cm</u>                                                         |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>7/08/01</u>                                                                             |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>10/07/02</u> BY <u>Kelly Bradbury</u>                                                |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                                                |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)<br><u>Pit 3 site @ Bannock Pit, Bishop, CA</u>                    |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Jim Evans; Craig Foster,</u><br><u>Kelly Bradbury</u>                                    |                                                                                        |
| SUPPLIER                                                                                                                      |                                                                                        |
| OTHER                                                                                                                         |                                                                                        |
|                                                                                                                               |                                                                                        |
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| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM                                 |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-15-01</u>                                                                     |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>Pit 3 sample includes</u><br><u>East half of Block</u><br><u>Sample BT-14-01</u> |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p 9 #486</u>                                                            |                                                                                        |
| AMOUNT OF SAMPLE                                                                                                      | SIZE <u>5cm x 20cm x 15cm</u>                                                          |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>7/08/01</u>                                                                     |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>10/07/02</u> BY <u>KK Braden</u>                                             |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                                        |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)<br><u>pit 3 @ Benno Pit; Bishop, CA</u>                   |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Jim Evans; Craig Forster;</u><br><u>Kelley C Braden</u>                          |                                                                                        |
| SUPPLIER                                                                                                              |                                                                                        |
| OTHER                                                                                                                 |                                                                                        |
|                                                                                                                       |                                                                                        |
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| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM                                                                     |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-16-01</u>                                                                                                         |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>Fault surface epoxied</u><br><u>in situ - sample taken after dried</u><br><u>Pit 3 fault</u>                         |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p10 #486</u>                                                                                                |                                                                                        |
| AMOUNT OF SAMPLE                                                                                                                                          | SIZE                                                                                   |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>7/08/01</u>                                                                                                         |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>10/07/02</u> BY <u>KK Bradburg</u>                                                                               |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                                                                            |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)<br><u>Upper Fault @ Pit 3 ; Borrow Pit site, Bishop, CA</u><br><u>NW corner of Borrow Pit</u> |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Jim Evans</u>                                                                                                        |                                                                                        |
| SUPPLIER                                                                                                                                                  |                                                                                        |
| OTHER Subsamples: <u>BT-16-TS1</u>                                                                                                                        |                                                                                        |
| <u>BT-16-TS2</u>                                                                                                                                          |                                                                                        |
| <u>BT-16-TS3</u>                                                                                                                                          |                                                                                        |
| <u>BT-16-XRD1</u>                                                                                                                                         |                                                                                        |
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| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM                                        |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>P1-17-01</u>                                                                            |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>Top of sample is</u><br><u>8cm below base of Pit 3</u><br><u>contains fault surface</u> |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p10 #486</u>                                                                   |                                                                                        |
| AMOUNT OF SAMPLE                                                                                                             | SIZE <u>30cm x 30cm x 30cm</u>                                                         |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>7/8/01</u>                                                                             |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>10/07/02</u> BY <u>KK Bradbury</u>                                                  |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                                               |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)<br><u>Pit 3, Barnard Pit site, Bishop, CA</u>                    |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Jim Evans &amp; Kelly Bradbury</u>                                                      |                                                                                        |
| SUPPLIER                                                                                                                     |                                                                                        |
| OTHER                                                                                                                        |                                                                                        |
|                                                                                                                              |                                                                                        |
| CNWRA FORM TOP-004                                                                                                           |                                                                                        |

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| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM                                                         |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-18-01</u>                                                                                             |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>Grain Size Analysis Sample</u><br><u>of non-welded pumice sequence</u><br><u>@ Horton Creek (0-10cm)</u> |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p11 #486</u>                                                                                    |                                                                                        |
| AMOUNT OF SAMPLE <u>loose sample in 1 gallon bag</u>                                                                                          | SIZE                                                                                   |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>7/08/01</u>                                                                                             |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>10/07/02</u> BY <u>KK Bradbury</u>                                                                   |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                                                                |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)<br><u>Horton Creek, Bishop, CA</u>                                                |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Craig Forster</u><br><u>Kelley Bradbury</u>                                                              |                                                                                        |
| SUPPLIER                                                                                                                                      |                                                                                        |
| OTHER <u>From TOP of Fallant Deposit</u>                                                                                                      | <u>Feox</u>                                                                            |
| <u>BT-18 thru BT-29 Samples collected from Sequence</u>                                                                                       | <u>BT-18-01</u>                                                                        |
| <u>TOP to Bottom</u>                                                                                                                          |                                                                                        |
| CNWRA FORM TOP-004 <u>Subsample: BT-18-6S1</u>                                                                                                | <u>BT-29-01</u>                                                                        |

6S = Grain Size

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| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br><br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM          |                                                                                                |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-19-01</u>                                                  |                                                                                                |
| DESCRIPTION OF SAMPLE (Mandatory) <u>See BT-18-01</u><br><u>(10-20cm)</u>                          |                                                                                                |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p11 #486</u>                                         |                                                                                                |
| AMOUNT OF SAMPLE <u>loose sample, partially-filled 1gal <sup>bag</sup> SIZE</u>                    |                                                                                                |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>7/08/01</u>                                                  |                                                                                                |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>10/07/02</u> BY <u>KKBradbury</u>                         |                                                                                                |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                     |                                                                                                |
| COLLECTION SITE (Reference Maps or Field Notes As Required)<br><u>Horton Creek, Bishop, CA</u>     |                                                                                                |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Craig Forster &amp; Kelly Bradbury</u>                        |                                                                                                |
| SUPPLIER                                                                                           |                                                                                                |
| OTHER <u>BT-19-651</u> <u>subsample for grain size analysis</u>                                    |                                                                                                |
| CNWRA FORM TOP-004                                                                                 |                                                                                                |

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| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM              |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-20-01</u>                                                  |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>(20-norm) See BT-18-01</u>                                    |                                                                                        |
|                                                                                                    |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p11 #486</u>                                         |                                                                                        |
|                                                                                                    |                                                                                        |
| AMOUNT OF SAMPLE <u>loose sample in 1 gallon bag</u> SIZE                                          |                                                                                        |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>7/8/01</u>                                                   |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>10/07/02 BY K. Bradbury</u>                               |                                                                                        |
|                                                                                                    |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                     |                                                                                        |
|                                                                                                    |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)                                        |                                                                                        |
| <u>Horton Creek, Bishop, CA</u>                                                                    |                                                                                        |
|                                                                                                    |                                                                                        |
|                                                                                                    |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Craig Forster &amp; Kelly Bradbury</u>                        |                                                                                        |
|                                                                                                    |                                                                                        |
| SUPPLIER                                                                                           |                                                                                        |
| OTHER <u>BT-20-GSI</u>                                                                             |                                                                                        |
|                                                                                                    |                                                                                        |
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| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM              |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-21-01</u>                                                  |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>(30-40cm) see BT-1B-01</u>                                    |                                                                                        |
|                                                                                                    |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p11#486</u>                                          |                                                                                        |
|                                                                                                    |                                                                                        |
| AMOUNT OF SAMPLE <u>loose sample in 1 gal bag</u>                                                  | SIZE                                                                                   |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>7/8/01</u>                                                   |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>10/7/02</u> BY <u>KKBradbury</u>                          |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USM</u>                                                     |                                                                                        |
|                                                                                                    |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)                                        |                                                                                        |
| <u>Horton Creek, Bishop, CA</u>                                                                    |                                                                                        |
|                                                                                                    |                                                                                        |
|                                                                                                    |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Craig Forster &amp; Kelly Bradbury</u>                        |                                                                                        |
|                                                                                                    |                                                                                        |
| SUPPLIER                                                                                           |                                                                                        |
| OTHER <u>BT-21-6S1</u>                                                                             |                                                                                        |
|                                                                                                    |                                                                                        |
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| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM              |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-22-01</u>                                                  |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>(40-50cm) see BT-18-01</u>                                    |                                                                                        |
|                                                                                                    |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p11 #456</u>                                         |                                                                                        |
|                                                                                                    |                                                                                        |
| AMOUNT OF SAMPLE <u>loose sample in 1 gal bag</u> SIZE                                             |                                                                                        |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>7/28/01</u>                                                  |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>10/07/02</u> BY <u>KK Bradley</u>                         |                                                                                        |
|                                                                                                    |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                     |                                                                                        |
|                                                                                                    |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)                                        |                                                                                        |
| <u>Horton Creek, Bishop, CA</u>                                                                    |                                                                                        |
|                                                                                                    |                                                                                        |
|                                                                                                    |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Craig Forster &amp; Kelley Bradley</u>                        |                                                                                        |
|                                                                                                    |                                                                                        |
| SUPPLIER                                                                                           |                                                                                        |
| OTHER <u>BT-22-651</u>                                                                             |                                                                                        |
|                                                                                                    |                                                                                        |
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| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM              |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-23-01</u>                                                  |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>(50-60cm) See BT-19-01</u>                                    |                                                                                        |
|                                                                                                    |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p11 #486</u>                                         |                                                                                        |
|                                                                                                    |                                                                                        |
| AMOUNT OF SAMPLE <u>loose sample in 1 gal bag</u>                                                  | SIZE                                                                                   |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>7/8/01</u>                                                   |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>10/07/02</u> BY <u>KK Bradley</u>                         |                                                                                        |
|                                                                                                    |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                     |                                                                                        |
|                                                                                                    |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)                                        |                                                                                        |
| <u>Morton Creek, Bishop, CA</u>                                                                    |                                                                                        |
|                                                                                                    |                                                                                        |
|                                                                                                    |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Craig Forster &amp; Kelly Bradley</u>                         |                                                                                        |
|                                                                                                    |                                                                                        |
| SUPPLIER                                                                                           |                                                                                        |
| OTHER <u>BT-23-651</u>                                                                             |                                                                                        |
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| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM              |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-24-01</u>                                                  |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>(100-70cm) See BT-18-01</u>                                   |                                                                                        |
|                                                                                                    |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p11 #486</u>                                         |                                                                                        |
|                                                                                                    |                                                                                        |
| AMOUNT OF SAMPLE <u>loose sample in 1 gal bag</u>                                                  | SIZE                                                                                   |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>7/8/01</u>                                                   |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>10/07/02</u> BY <u>KKBradley</u>                          |                                                                                        |
|                                                                                                    |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USIA</u>                                                    |                                                                                        |
|                                                                                                    |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)                                        |                                                                                        |
| <u>Horton Creek, Bishop, CA</u>                                                                    |                                                                                        |
|                                                                                                    |                                                                                        |
|                                                                                                    |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Craig Forster &amp; Kelly Badley</u>                          |                                                                                        |
|                                                                                                    |                                                                                        |
| SUPPLIER                                                                                           |                                                                                        |
| OTHER <u>BT-24-651</u>                                                                             |                                                                                        |
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| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM              |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-25-01</u>                                                  |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>(70-80cm) see BT-18-01</u>                                    |                                                                                        |
|                                                                                                    |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p11 #486</u>                                         |                                                                                        |
|                                                                                                    |                                                                                        |
| AMOUNT OF SAMPLE <u>Loose sample in 1 gal bag</u>                                                  | SIZE                                                                                   |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>7/8/01</u>                                                   |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>10/7/02</u> BY <u>KK Bradbury</u>                         |                                                                                        |
|                                                                                                    |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                     |                                                                                        |
|                                                                                                    |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)                                        |                                                                                        |
| <u>Horton Creek, Bohgs, CA</u>                                                                     |                                                                                        |
|                                                                                                    |                                                                                        |
|                                                                                                    |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Craig Foster</u><br><u>Kelly Bradbury</u>                     |                                                                                        |
| SUPPLIER                                                                                           |                                                                                        |
| OTHER <u>Subsample BT-25-6S1</u>                                                                   |                                                                                        |
|                                                                                                    |                                                                                        |
|                                                                                                    |                                                                                        |
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| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM              |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-26-01</u>                                                  |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>(80-90cm) sec BT-18-01</u>                                    |                                                                                        |
|                                                                                                    |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p11 #486</u>                                         |                                                                                        |
|                                                                                                    |                                                                                        |
| AMOUNT OF SAMPLE <u>large sample in 1 gal bag</u>                                                  | SIZE                                                                                   |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>7/8/01</u>                                                   |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>10/07/02</u> BY <u>KC Bradley</u>                         |                                                                                        |
|                                                                                                    |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                     |                                                                                        |
|                                                                                                    |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)                                        |                                                                                        |
| <u>Horton Creek, Bishop, CA</u>                                                                    |                                                                                        |
|                                                                                                    |                                                                                        |
|                                                                                                    |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Craig Forster</u>                                             |                                                                                        |
| <u>Kelly Bradley</u>                                                                               |                                                                                        |
| SUPPLIER                                                                                           |                                                                                        |
| OTHER <u>Subsample BT-26-GS1</u>                                                                   |                                                                                        |
|                                                                                                    |                                                                                        |
|                                                                                                    |                                                                                        |
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| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM              |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-27-01</u>                                                  |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>(90-100cm) see BT-18-01</u>                                   |                                                                                        |
|                                                                                                    |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p11 #486</u>                                         |                                                                                        |
|                                                                                                    |                                                                                        |
| AMOUNT OF SAMPLE <u>loose sample in 1 gal bag</u>                                                  | SIZE                                                                                   |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>7/8/01</u>                                                   |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>10/7/02</u> BY <u>KKBradbury</u>                          |                                                                                        |
|                                                                                                    |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                     |                                                                                        |
|                                                                                                    |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)                                        |                                                                                        |
| <u>Hortonville K- , Bishop, CA</u>                                                                 |                                                                                        |
|                                                                                                    |                                                                                        |
|                                                                                                    |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Craig Forster</u>                                             |                                                                                        |
| <u>Kelly Bradbury</u>                                                                              |                                                                                        |
| SUPPLIER                                                                                           |                                                                                        |
| OTHER <u>Subsample BT-27-6S1</u>                                                                   |                                                                                        |
| <u>KKB</u><br><u>10/7/02</u>                                                                       |                                                                                        |
|                                                                                                    |                                                                                        |
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| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM              |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-28-01</u>                                                  |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>100-110cm (see BT-18-01)</u>                                  |                                                                                        |
|                                                                                                    |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p11 #486</u>                                         |                                                                                        |
|                                                                                                    |                                                                                        |
| AMOUNT OF SAMPLE <u>loose sample in 1 gal bag</u>                                                  | SIZE                                                                                   |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>7/8/01</u>                                                   |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>10/07/01</u>                                              | BY <u>KK Bradbury</u>                                                                  |
|                                                                                                    |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                     |                                                                                        |
|                                                                                                    |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)                                        |                                                                                        |
| <u>Horton Creek, Bishop, CA</u>                                                                    |                                                                                        |
|                                                                                                    |                                                                                        |
|                                                                                                    |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Craig Forster</u>                                             |                                                                                        |
| <u>Kelly Bradbury</u>                                                                              |                                                                                        |
| SUPPLIER                                                                                           |                                                                                        |
| OTHER <u>Subsample BT 28-651</u>                                                                   |                                                                                        |
|                                                                                                    |                                                                                        |
|                                                                                                    |                                                                                        |
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| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM              |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-29-01</u>                                                  |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>110-120 (see BT-18-01)</u>                                    |                                                                                        |
|                                                                                                    |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY                                                         |                                                                                        |
|                                                                                                    |                                                                                        |
| AMOUNT OF SAMPLE <u>loose sample in 1 gal bag</u>                                                  | SIZE                                                                                   |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>7/8/01</u>                                                   |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>10/7/01</u> BY <u>KK Bradbury</u>                         |                                                                                        |
|                                                                                                    |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                     |                                                                                        |
|                                                                                                    |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)                                        |                                                                                        |
| <u>Hortonville-K, Bishop, IA</u>                                                                   |                                                                                        |
|                                                                                                    |                                                                                        |
|                                                                                                    |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Craig Forster</u><br><u>Kelly Bradbury</u>                    |                                                                                        |
| SUPPLIER                                                                                           |                                                                                        |
| OTHER <u>Subsample - BT-29-651</u>                                                                 |                                                                                        |
|                                                                                                    |                                                                                        |
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| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM                                               |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-70-01</u>                                                                                   |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>portion of fracture,</u><br><u>adjacent to Horton Creek fault</u><br><u>w/ in hanging wall</u> |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p12 #486</u>                                                                          |                                                                                        |
| AMOUNT OF SAMPLE <u>loose sample in 1 gal bag</u>                                                                                   | SIZE                                                                                   |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>7/8/01</u>                                                                                    |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>10/07/01</u> BY <u>KK Bradbury</u>                                                         |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                                                      |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)<br><u>Horton Creek Fault, Bishop, CA</u>                                |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Jim Evans &amp; Kelly Bradbury</u>                                                             |                                                                                        |
| SUPPLIER                                                                                                                            |                                                                                        |
| OTHER                                                                                                                               |                                                                                        |
|                                                                                                                                     |                                                                                        |
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| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM                                                                                                                      |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-31-01</u>                                                                                                                                                          |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>Site - Stratigraphic section area</u><br><u>Sample collected w/ circular drill bit of</u><br><u>moderately welded Bishop Tuff</u>                                     |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p12 # 486</u>                                                                                                                                                |                                                                                        |
| AMOUNT OF SAMPLE                                                                                                                                                                                           | SIZE <u>8 cm dia x 6 cm</u>                                                            |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>7/8/01</u>                                                                                                                                                           |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>10/7/01</u> BY <u>KK Bradbury</u>                                                                                                                                 |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                                                                                                                             |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)<br><u>Stratigraphic section site - Site 6?</u><br><u>located west of crucifix site</u><br><u>along Chalk Bluffs Road,</u><br><u>Bishop, CA</u> |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Craig Forster</u><br><u>Kelly Bradbury</u>                                                                                                                            |                                                                                        |
| SUPPLIER                                                                                                                                                                                                   |                                                                                        |
| OTHER <u>BT-31-T31 thin-sectioned subsample</u>                                                                                                                                                            |                                                                                        |
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| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM                              |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-32-01</u>                                                                  |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>poorly to non-welded tuff deposit</u><br><u>Left of pit 1 @ BannwPit site</u> |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p. 14 #486</u>                                                       |                                                                                        |
| AMOUNT OF SAMPLE <u>1 gal bag sample</u>                                                                           | SIZE                                                                                   |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>7/9/01</u>                                                                   |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>10/08/02</u>                                                              | BY <u>KKBradbury</u>                                                                   |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                                     |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)<br><u>BannwPit ; Bishop, CA , pit 2</u>                |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Jim Evans</u>                                                                 |                                                                                        |
| SUPPLIER                                                                                                           |                                                                                        |
| OTHER <u>BT-32-TS1 thin section subsample</u>                                                                      |                                                                                        |
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| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM                                              |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-33-01</u>                                                                                  |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>porphy welded tuff</u><br><u>collected @ Pit 2 dye tracer test site</u><br><u>@ Banno pit</u> |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p 14 #486</u>                                                                        |                                                                                        |
| AMOUNT OF SAMPLE <u>1 gal bag sample</u>                                                                                           | SIZE                                                                                   |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>7/9/01</u>                                                                                   |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>10/08/02</u> BY <u>KE Baden</u>                                                           |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                                                     |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)<br><u>Banno Pit; Bishop, CA, pit 2</u>                                 |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>J. M. Evans</u>                                                                               |                                                                                        |
| SUPPLIER                                                                                                                           |                                                                                        |
| OTHER                                                                                                                              |                                                                                        |
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| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM                                                                 |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-34-01</u>                                                                                                     |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>basal unit of mapped</u><br><u>bedded tuff sequence - 19cm thick</u><br><u>bed - 40cm E of fault in Football</u> |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p15 #486</u>                                                                                            |                                                                                        |
| AMOUNT OF SAMPLE <u>small bag sample for XRD</u> SIZE                                                                                                 |                                                                                        |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>7/9/01</u>                                                                                                      |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>10/8/02</u> BY <u>K. Bradbury</u>                                                                            |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                                                                        |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)<br><u>Crucifix, Crossing faults site along</u><br><u>Chalk Bluffs Rd, Bishop, CA</u>      |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Kelly K. Bradbury</u><br><u>Jason Heath</u>                                                                      |                                                                                        |
| SUPPLIER                                                                                                                                              |                                                                                        |
| OTHER <u>BT-34-XRD1</u> <u>Subsample</u>                                                                                                              |                                                                                        |
|                                                                                                                                                       |                                                                                        |
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| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM                                                    |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-35-01</u>                                                                                        |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>gray wedge of bedded tuff</u><br><u>banded by main fault &amp; smaller</u><br><u>footwall fault</u> |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>P 15 #486</u>                                                                              |                                                                                        |
| AMOUNT OF SAMPLE <u>small bag sample for XRD</u> SIZE                                                                                    |                                                                                        |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>7/9/01</u>                                                                                         |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>10/08/02</u> BY <u>KKBradley</u>                                                                |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                                                           |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)<br><u>Crucifix site, Bishop, CA</u>                                          |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Kelly K. Bradley</u><br><u>Jason Heaton</u>                                                         |                                                                                        |
| SUPPLIER                                                                                                                                 |                                                                                        |
| OTHER <u>BT-35-XRD1 - Subsample</u>                                                                                                      |                                                                                        |
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| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM                                       |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-31c-01</u>                                                                          |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>26cm east of fault in</u><br><u>foothill - Ash deposit</u><br><u>bed is 15cm thick</u> |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY                                                                                  |                                                                                        |
| AMOUNT OF SAMPLE <u>small bag sample for xrd</u> SIZE                                                                       |                                                                                        |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>7/9/01</u>                                                                            |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>10/08/02</u> BY <u>K/C Bradley</u>                                                 |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USA</u>                                                                              |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)<br><u>Crucifix Site, Bishop, CA</u>                             |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Kelly C Bradley</u><br><u>Jason Heater</u>                                             |                                                                                        |
| SUPPLIER                                                                                                                    |                                                                                        |
| OTHER <u>Subsample BT-31c-xrd 1</u>                                                                                         |                                                                                        |
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| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM                                                       |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-37-01</u>                                                                                           |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>intensely fractured lignite</u><br><u>sequence. 15m thick w/in</u><br><u>bedded tuffs - light gray</u> |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p15 #486</u>                                                                                  |                                                                                        |
| AMOUNT OF SAMPLE <u>small bag sample for XRD</u>                                                                                            | SIZE                                                                                   |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>7/9/01</u>                                                                                            |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>10/8/02</u> BY <u>KK Bradley</u>                                                                   |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USA</u>                                                                                              |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)<br><u>Cnicifix Site, Bishop, CA</u>                                             |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Kelly K Bradley</u><br><u>Tasan Heath</u>                                                              |                                                                                        |
| SUPPLIER                                                                                                                                    |                                                                                        |
| OTHER <u>Subsample BT-37-Xrd1</u>                                                                                                           |                                                                                        |
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**CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES**

**SAMPLE CUSTODY/CONTROL LOG ENTRY FORM**

SAMPLE IDENTIFICATION (Mandatory) BT-38-01

DESCRIPTION OF SAMPLE (Mandatory) BT-38A-01 → Fault core gauge  
20cm drag from same bed

BT-38B-01 → Fault + surface - white

REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY p 15 #4820

AMOUNT OF SAMPLE small bag sample for XRD SIZE

DATE OF SAMPLE RECEIPT (Mandatory) 7/9/01

DATE OF INITIAL LOG ENTRY (Mandatory) 10/8/02 BY KK Bradbury

SAMPLE STORAGE LOCATION (Mandatory) USU

COLLECTION SITE (Reference Maps or Field Notes As Required)

Crucifix site; Bishop, CA

PERSON(S) WHO COLLECTED SAMPLE(S) Kellyk Bradbury

SUPPLIER

OTHER BT-38-XRD1 (38A) subsamples  
BT-38-XRD2 (38B)

CNWRA FORM TOP-004

Attachment A

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| <b>ENTER FOR NUCLEAR WASTE<br/>REGULATORY ANALYSES</b><br><br><b>TECHNICAL OPERATING PROCEDURE</b>                                        | Proc. <u>TOP-012</u><br>Revision <u>2</u> Change <u>0</u><br>Page <u>6</u> of <u>6</u> |
| <b>CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES</b><br><b>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM</b>                                       |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-39-01</u>                                                                                         |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>medium - coarser grain</u><br><u>bedded tuff bed; abundant</u><br><u>lithic clasts, sandy matrix</u> |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p15 #486</u>                                                                                |                                                                                        |
| AMOUNT OF SAMPLE <u>small bag, sample for XRD</u>                                                                                         | SIZE <u>---</u>                                                                        |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>7/9/01</u>                                                                                          |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>10/08/02</u> BY <u>K. Bradbury</u>                                                               |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                                                            |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)<br><u>Cnicifix, Chalk Bluffs Road, Bishop, CA</u>                             |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Kelly K Bradbury</u><br><u>Jason Heath</u>                                                           |                                                                                        |
| SUPPLIER                                                                                                                                  |                                                                                        |
| OTHER <u>Subsample BT-39-XRD1</u>                                                                                                         |                                                                                        |
| CNWRA FORM TOP-004                                                                                                                        |                                                                                        |

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| <b>CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES</b><br><b>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM</b>                                                        |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-41-01</u>                                                                                                          |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>Faultzone gouge comprised of</u><br><u>entrained white bed - dragged ↓</u><br><u>61cm; white bed is leucosthictic</u> |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY                                                                                                                 |                                                                                        |
| AMOUNT OF SAMPLE <u>small bag sample for XRD</u> SIZE                                                                                                      |                                                                                        |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>7/9/01</u>                                                                                                           |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>10/8/01</u> BY <u>KK Bradbury</u>                                                                                 |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>DSU</u>                                                                                                             |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)                                                                                                |                                                                                        |
| <u>Crucifix Site, Chalk Bluff Rd., Bishop, CA</u>                                                                                                          |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Kelly Bradbury</u><br><u>Jason Heath</u>                                                                              |                                                                                        |
| SUPPLIER                                                                                                                                                   |                                                                                        |
| OTHER <u>BT-41-XRD1</u>                                                                                                                                    |                                                                                        |
| CNWRA FORM TOP-004                                                                                                                                         |                                                                                        |

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| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM              |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-42-01</u>                                                  |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>White Ash host rock</u><br><u>45cm thick bedd</u>             |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p. 15 #486</u>                                       |                                                                                        |
| AMOUNT OF SAMPLE <u>Small bag sample for XRD</u>                                                   | SIZE                                                                                   |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>7/9/01</u>                                                   |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>10/8/02</u> BY <u>KE Bradbury</u>                         |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                     |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)<br><u>Cucifix Site, Bishop CA</u>      |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Kelly K Bradbury &amp; Ryan Heath</u>                         |                                                                                        |
| SUPPLIER                                                                                           |                                                                                        |
| OTHER <u>Subsample BT-42-XRD1</u>                                                                  |                                                                                        |
| CNWRA FORM TOP-004                                                                                 |                                                                                        |

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| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM              |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-42-01</u>                                                  |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>White Ash host rock</u><br><u>45cm thick bedd</u>             |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p. 15 #486</u>                                       |                                                                                        |
| AMOUNT OF SAMPLE <u>Small bag sample for XRD</u>                                                   | SIZE                                                                                   |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>7/9/01</u>                                                   |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>10/8/02</u> BY <u>KK Bradbury</u>                         |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                     |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)<br><u>Cucifix Site, Bishop CA</u>      |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Kelly K. Bradbury &amp; Tagn Heath</u>                        |                                                                                        |
| SUPPLIER                                                                                           |                                                                                        |
| OTHER <u>Subsample BT-42-XRD1</u>                                                                  |                                                                                        |
| CNWRA FORM TOP-004                                                                                 |                                                                                        |

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| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br><br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM          |                                                                                                |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-43-01</u>                                                  |                                                                                                |
| DESCRIPTION OF SAMPLE (Mandatory) <u>light gray, medium to coarse grained</u>                      |                                                                                                |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p15 #486</u>                                         |                                                                                                |
| AMOUNT OF SAMPLE <u>small bag sample for XRD</u>                                                   | SIZE                                                                                           |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>7/9/01</u>                                                   |                                                                                                |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>10/08/02 BY K. K. Badbury</u>                             |                                                                                                |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                     |                                                                                                |
| COLLECTION SITE (Reference Maps or Field Notes As Required)                                        |                                                                                                |
| <u>Crucifix Site, Chalks Bluffs Rd,</u><br><u>Bishop, CA</u>                                       |                                                                                                |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Kelly K. Badbury, Tasantleath</u>                             |                                                                                                |
| SUPPLIER                                                                                           |                                                                                                |
| OTHER <u>BT-43 - XRD1</u>                                                                          |                                                                                                |
| CNWRA FORM TOP-004                                                                                 |                                                                                                |

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| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br><br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM          |                                                                                                |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-44-01</u>                                                  |                                                                                                |
| DESCRIPTION OF SAMPLE (Mandatory) <u>White Ash Host rock</u>                                       |                                                                                                |
| <u>10/8/02 XKB 8" bed thickness</u>                                                                |                                                                                                |
| <u>(dragged into Faultzone (BT-43-01))</u>                                                         |                                                                                                |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>pile #486</u>                                        |                                                                                                |
| AMOUNT OF SAMPLE <u>small bag sample for XRD</u>                                                   | SIZE                                                                                           |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>7/9/01</u>                                                   |                                                                                                |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>10/8/02</u> BY <u>XKB</u>                                 |                                                                                                |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                     |                                                                                                |
| COLLECTION SITE (Reference Maps or Field Notes As Required)                                        |                                                                                                |
| <u>Cruzifix, Bishop, CA</u>                                                                        |                                                                                                |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Kelly Bradbury</u>                                            |                                                                                                |
| <u>Jason Heath</u>                                                                                 |                                                                                                |
| SUPPLIER                                                                                           |                                                                                                |
| OTHER <u>BT-44-XRD1</u>                                                                            |                                                                                                |
| CNWRA FORM TOP-004                                                                                 |                                                                                                |

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| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM              |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-45-01</u>                                                  |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>tan gray fault surface</u><br><u>Flt - SE/78SW</u>            |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>plc #486</u>                                         |                                                                                        |
| AMOUNT OF SAMPLE <u>small bag sample for XRD</u>                                                   | SIZE                                                                                   |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>7/9/01</u>                                                   |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>10/8/02</u> BY <u>KKBradley</u>                           |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                     |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)<br><u>Crocker Fault, Bishop, CA</u>    |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Kelly K Bradley</u><br><u>Jason Heath</u>                     |                                                                                        |
| SUPPLIER                                                                                           |                                                                                        |
| OTHER <u>BT-45-XRD1 Subsample</u>                                                                  |                                                                                        |
| CNWRA FORM TOP-004                                                                                 |                                                                                        |

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| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM                             |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-46-01</u>                                                                 |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>White Ash Bed hostrock - FW</u><br><u>8 1/2 inch bed</u>                     |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p 16 #486</u>                                                       |                                                                                        |
| AMOUNT OF SAMPLE <u>small bag sample for XRD</u>                                                                  | SIZE                                                                                   |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>7/9/01</u>                                                                  |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>10/8/02</u> BY <u>KK Bradley</u>                                         |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory)                                                                               |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)<br><u>Crossifix Site, Chalk Bluffs Rd, Bishop, CA</u> |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Kelly Bradley &amp; Tarn Heath</u>                                           |                                                                                        |
| SUPPLIER                                                                                                          |                                                                                        |
| OTHER <u>BT-46-XRD1 subsample</u>                                                                                 |                                                                                        |
| CNWRA FORM TOP-004                                                                                                |                                                                                        |

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| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br><br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM          |                                                                                                |
| SAMPLE IDENTIFICATION (Mandatory) <b>BT-47-01</b>                                                  |                                                                                                |
| DESCRIPTION OF SAMPLE (Mandatory) <b>green ash 1</b>                                               |                                                                                                |
| <b>maple bed</b>                                                                                   |                                                                                                |
| <b>100cm thick</b>                                                                                 |                                                                                                |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY                                                         |                                                                                                |
|                                                                                                    |                                                                                                |
| AMOUNT OF SAMPLE <b>small bag sample for xrd</b>                                                   | SIZE                                                                                           |
| DATE OF SAMPLE RECEIPT (Mandatory) <b>7/9/01</b>                                                   |                                                                                                |
| DATE OF INITIAL LOG ENTRY (Mandatory) <b>10/8/02</b> BY <b>KCB</b>                                 |                                                                                                |
| SAMPLE STORAGE LOCATION (Mandatory)                                                                |                                                                                                |
|                                                                                                    |                                                                                                |
| COLLECTION SITE (Reference Maps or Field Notes As Required)                                        |                                                                                                |
| <b>Cruet's, Chalk Bluffs Rd</b>                                                                    |                                                                                                |
| <b>Bishop, CA</b>                                                                                  |                                                                                                |
|                                                                                                    |                                                                                                |
| PERSON(S) WHO COLLECTED SAMPLE(S) <b>Kelly Broadbent</b>                                           |                                                                                                |
| <b>Jason Heath</b>                                                                                 |                                                                                                |
| SUPPLIER                                                                                           |                                                                                                |
| OTHER <b>Subsample for xrd: BT47-XRD1</b>                                                          |                                                                                                |
|                                                                                                    |                                                                                                |
|                                                                                                    |                                                                                                |
| CNWRA FORM TOP-004                                                                                 |                                                                                                |

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**CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES**

**SAMPLE CUSTODY/CONTROL LOG ENTRY FORM**

SAMPLE IDENTIFICATION (Mandatory) BT-48-01

DESCRIPTION OF SAMPLE (Mandatory) Intensely fractured  
mod. welded ignimbrite  
thin sequence 85cm thick

REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY P 16 #486

AMOUNT OF SAMPLE small bag sample for xrd SIZE

DATE OF SAMPLE RECEIPT (Mandatory) 7/9/01

DATE OF INITIAL LOG ENTRY (Mandatory) 10/8/02 BY KK Badby

SAMPLE STORAGE LOCATION (Mandatory) USM

COLLECTION SITE (Reference Maps or Field Notes As Required)

Cincifix Site, Chalk Bluffs Road  
Bishop, CA

PERSON(S) WHO COLLECTED SAMPLE(S) Kelly Bradbury  
Jason Heath

SUPPLIER

OTHER BT 48 - XRD 1

CNWRA FORM TOP-004

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| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM                                 |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-49-01</u>                                                                     |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>Fault surface - HW side</u><br><u>of fault NIE 189's</u>                         |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>pile #486</u>                                                           |                                                                                        |
| AMOUNT OF SAMPLE <u>small bag sample for XRD</u>                                                                      | SIZE                                                                                   |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>7/9/01</u>                                                                      |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>10/8/02</u> BY <u>KK Bradbury</u>                                            |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USL1</u>                                                                       |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)<br><u>Crucifix, Chalk Bluffs Rd,</u><br><u>Bishop, CA</u> |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Kelly Bradbury</u><br><u>Tasan + Leah</u>                                        |                                                                                        |
| SUPPLIER                                                                                                              |                                                                                        |
| OTHER <u>BT-49-XRD1 Sub sample</u>                                                                                    |                                                                                        |
| CNWRA FORM TOP-004                                                                                                    |                                                                                        |

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| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM                                           |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-5D-01</u>                                                                               |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>Faulted pumice unit</u><br><u>with calcite vein from</u><br><u>small fault in foothill</u> |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p17 #486</u>                                                                      |                                                                                        |
| AMOUNT OF SAMPLE <u>3 chunks</u> <u>3cm x 3cm x 1cm</u> and <u>3cm x 3cm x 1cm</u><br><u>6cm x 4cm x 1cm</u> SIZE               |                                                                                        |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>7/9/01</u>                                                                                |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>10/8/02</u> BY <u>KCB</u>                                                              |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USA</u>                                                                                  |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)<br><u>Crucifix Site; Chalk Bluffs Rd, Bishop, CA</u>                |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Ken Tim Evans</u><br><u>KCB 10/8/02</u>                                                    |                                                                                        |
| SUPPLIER                                                                                                                        |                                                                                        |
| OTHER <u>BT-5D - XRD1 Subsample by KCB</u>                                                                                      |                                                                                        |
| CNWRA FORM TOP-004                                                                                                              |                                                                                        |

Attachment A

## SAMPLE CUSTODY ENTRY FORM

SAMPLE IDENTIFICATION (Mandatory) CCHW1.GP6

SAMPLE  
DESIGNATOR \_\_\_\_\_

DESCRIPTION OF SAMPLE (Mandatory): Nonwelded tuff collected from basal portion Bishop Tuff near  
Bishop, California for estimating field bulk density or water content.

REFERENCE SCIENTIFIC NOTEBOOK ENTRY: Collected by Bradbury, sci ntbk #515, page 81

AMOUNT OF SAMPLE \_\_\_\_\_ SIZE Small chunks wrapped in duct tape

DATE OF SAMPLE RECEIPT (Mandatory): September 18, 2002

DATE OF LOG ENTRY: October 10, 2002 BY: R. Fedors  
(Mandatory)

SAMPLE STORAGE LOCATION (Mandatory): Building 51 laboratory

### COLLECTION SITE:

Chalk Cove area, lower fault transect, which is called CCHW1 (0-3m)

Approximately 20 cm north of air permeameter site 240 (240-cm location along CCHW1 transect line)

Supplier:

Other:

## SAMPLE CUSTODY ENTRY FORM

SAMPLE IDENTIFICATION (Mandatory) CCHW1.GP7

SAMPLE  
DESIGNATOR \_\_\_\_\_

DESCRIPTION OF SAMPLE (Mandatory): Nonwelded tuff collected from basal portion Bishop Tuff near  
Bishop, California for estimating field bulk density or water content.

REFERENCE SCIENTIFIC NOTEBOOK ENTRY: Collected by Bradbury, sci ntbk #515, page 81

AMOUNT OF SAMPLE \_\_\_\_\_ SIZE Small chunks wrapped in duct tape

DATE OF SAMPLE RECEIPT (Mandatory): September 18, 2002

DATE OF LOG ENTRY: October 10, 2002 BY: R. Fedors  
(Mandatory)

SAMPLE STORAGE LOCATION (Mandatory): Building 51 laboratory

### COLLECTION SITE:

Chalk Cove area, lower fault transect, which is called CCHW1 (0-3m)

Approx 20 cm south of transect line at ~185-cm location (between air permeameter sites 180 and 190)

Supplier:

Other:



## SAMPLE CUSTODY ENTRY FORM

SAMPLE IDENTIFICATION (Mandatory) CCHW1.GP8

SAMPLE  
DESIGNATOR \_\_\_\_\_

DESCRIPTION OF SAMPLE (Mandatory): Nonwelded tuff collected from basal portion Bishop Tuff near  
Bishop, California for estimating field bulk density or water content.

REFERENCE SCIENTIFIC NOTEBOOK ENTRY: Collected by Bradbury, sci ntbk #515, page 81

AMOUNT OF SAMPLE \_\_\_\_\_ SIZE Small chunks wrapped in duct tape

DATE OF SAMPLE RECEIPT (Mandatory): September 18, 2002

DATE OF LOG ENTRY: October 10, 2002 BY: R. Fedors  
(Mandatory)

SAMPLE STORAGE LOCATION (Mandatory): Building 51 laboratory

### COLLECTION SITE:

Chalk Cove area, lower fault transect, which is called CCHW1 (0-3m)

Approximately 30 cm north of air permeameter site 320 (320-cm location along CCHW1 transect line)

Supplier:

Other:

## SAMPLE CUSTODY ENTRY FORM

SAMPLE IDENTIFICATION (Mandatory) CC3.GP1

SAMPLE  
DESIGNATOR \_\_\_\_\_

DESCRIPTION OF SAMPLE (Mandatory): Nonwelded tuff collected from basal portion Bishop Tuff near  
Bishop, California for estimating field bulk density or water content.

REFERENCE SCIENTIFIC NOTEBOOK ENTRY: Collected by Bradbury, sci ntbk #515, page 81

AMOUNT OF SAMPLE \_\_\_\_\_ SIZE Small chunks wrapped in duct tape

DATE OF SAMPLE RECEIPT (Mandatory): September 18, 2002

DATE OF LOG ENTRY: October 10, 2002 BY: R. Fedors  
(Mandatory)

SAMPLE STORAGE LOCATION (Mandatory): Building 51 laboratory

### COLLECTION SITE:

Chalk Cove area, upper fault transect, which is called CC3

Approximately 80 cm north of air permeameter site 280 on CC3 transect

(280-cm location along CC3 transect line)

or 220 cm north of transect baseline

Supplier:

Other:

## SAMPLE CUSTODY ENTRY FORM

SAMPLE IDENTIFICATION (Mandatory) CC3.GP2

SAMPLE  
DESIGNATOR \_\_\_\_\_

DESCRIPTION OF SAMPLE (Mandatory): Nonwelded tuff collected from basal portion Bishop Tuff near  
Bishop, California for estimating field bulk density or water content.

REFERENCE SCIENTIFIC NOTEBOOK ENTRY: Collected by Bradbury, sci ntbk #515, page 81

AMOUNT OF SAMPLE \_\_\_\_\_ SIZE Small chunks wrapped in duct tape

DATE OF SAMPLE RECEIPT (Mandatory): September 18, 2002

DATE OF LOG ENTRY: October 10, 2002 BY: R. Fedors  
(Mandatory)

SAMPLE STORAGE LOCATION (Mandatory): Building 51 laboratory

### COLLECTION SITE:

Chalk Cove area, upper fault transect, which is called CC3

Approximately 215 cm north of the 190-cm location on the CC3 transect

Supplier:

Other:

## SAMPLE CUSTODY ENTRY FORM

SAMPLE IDENTIFICATION (Mandatory) CC3.GP3

SAMPLE  
DESIGNATOR \_\_\_\_\_

DESCRIPTION OF SAMPLE (Mandatory): Nonwelded tuff collected from basal portion Bishop Tuff near  
Bishop, California for estimating field bulk density or water content.

REFERENCE SCIENTIFIC NOTEBOOK ENTRY: Collected by Bradbury, sci ntbk #515, page 81

AMOUNT OF SAMPLE \_\_\_\_\_ SIZE Small chunks wrapped in duct tape

DATE OF SAMPLE RECEIPT (Mandatory): September 18, 2002

DATE OF LOG ENTRY: October 10, 2002 BY: R. Fedors  
(Mandatory)

SAMPLE STORAGE LOCATION (Mandatory): Building 51 laboratory

### COLLECTION SITE:

Chalk Cove area, upper fault transect, which is called CC3

Approximately 50 cm north of 165-cm location on CC3 transect

(between the 160-cm and 170-cm locations along CC3 transect line)

Supplier:

Other:

## SAMPLE CUSTODY ENTRY FORM

SAMPLE IDENTIFICATION (Mandatory) CC3.GP4

SAMPLE  
DESIGNATOR \_\_\_\_\_

DESCRIPTION OF SAMPLE (Mandatory): Nonwelded tuff collected from basal portion Bishop Tuff near Bishop, California for estimating field bulk density or water content.

REFERENCE SCIENTIFIC NOTEBOOK ENTRY: Collected by Bradbury, sci ntbk #515, page 80

AMOUNT OF SAMPLE \_\_\_\_\_ SIZE Small chunks wrapped in duct tape

DATE OF SAMPLE RECEIPT (Mandatory): September 18, 2002

DATE OF LOG ENTRY: October 10, 2002 BY: R. Fedors  
(Mandatory)

SAMPLE STORAGE LOCATION (Mandatory): Building 51 laboratory

### COLLECTION SITE:

Chalk Cove area, upper fault transect, which is called CC3

Approximately 125 cm north of 115-cm location of CC3 transect

(between 110-cm and 120-cm locations along CC3 transect line)

Supplier:

Other:

## SAMPLE CUSTODY ENTRY FORM

SAMPLE IDENTIFICATION (Mandatory) CC3.GP5

SAMPLE  
DESIGNATOR \_\_\_\_\_

DESCRIPTION OF SAMPLE (Mandatory): Nonwelded tuff collected from basal portion Bishop Tuff near  
Bishop, California for estimating field bulk density or water content.

REFERENCE SCIENTIFIC NOTEBOOK ENTRY: Collected by Bradbury, sci ntbk #515, page 80

AMOUNT OF SAMPLE \_\_\_\_\_ SIZE Small chunks wrapped in duct tape

DATE OF SAMPLE RECEIPT (Mandatory): September 18, 2002

DATE OF LOG ENTRY: October 10, 2002 BY: R. Fedors  
(Mandatory)

SAMPLE STORAGE LOCATION (Mandatory): Building 51 laboratory

### COLLECTION SITE:

Chalk Cove area, upper fault transect, which is called CC3

Approximately 225 cm north of 50-cm location of CC3 transect

Supplier:

Other:

## SAMPLE CUSTODY ENTRY FORM

SAMPLE IDENTIFICATION (Mandatory) CC3.GP6

SAMPLE  
DESIGNATOR \_\_\_\_\_

DESCRIPTION OF SAMPLE (Mandatory): Nonwelded tuff collected from basal portion Bishop Tuff near  
Bishop, California for estimating field bulk density or water content.

REFERENCE SCIENTIFIC NOTEBOOK ENTRY: Collected by Bradbury, sci ntbk #515, page 80

AMOUNT OF SAMPLE \_\_\_\_\_ SIZE Small chunks wrapped in duct tape

DATE OF SAMPLE RECEIPT (Mandatory): September 18, 2002

DATE OF LOG ENTRY: October 10, 2002 BY: R. Fedors  
(Mandatory)

SAMPLE STORAGE LOCATION (Mandatory): Building 51 laboratory

### COLLECTION SITE:

Chalk Cove area, upper fault transect, which is called CC3

Approximately 235 cm north of 20-cm location of CC3 transect

Supplier:

Other:

|                                                                                                                               |                                                                                        |
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| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM                                         |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-51-01</u>                                                                             |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>fractured green ash &amp; bed</u><br><u>of crucifix geologic Schematic</u><br><u>map</u> |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p17 #486</u>                                                                    |                                                                                        |
| AMOUNT OF SAMPLE <u>9.75 lbs</u>                                                                                              | SIZE <u>22x19x17cm</u>                                                                 |
| DATE OF SAMPLE RECEIPT (Mandatory) <del>10/12/02</del> <sup>KLB 10/24/02</sup> <u>7/9/01</u>                                  |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>10/12/02</u> BY <u>KLB</u>                                                           |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                                                |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)<br><u>Crucifix, Chalk bluff rd, Bishop, CA</u>                    |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Kelly K Bradbury, Tim Evans</u><br><u>Jason Heath</u>                                    |                                                                                        |
| SUPPLIER                                                                                                                      |                                                                                        |
| OTHER <u>BT-51-TS1</u>                                                                                                        | <u>BT-51-XRD2</u>                                                                      |
| <u>BT-51-SEM1</u>                                                                                                             | <u>BT-51-XRD3</u>                                                                      |
| <u>BT-51-VRD1</u>                                                                                                             | <u>BT-51-XRD4</u>                                                                      |
| CNWRA FORM TOP-004                                                                                                            |                                                                                        |

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| <b>CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES</b><br><b>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM</b>                        |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-52-01</u>                                                                          |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>exposed fracture near</u><br><u>Horton Creek fault - iron-oxide</u><br><u>banding</u> |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p17#486</u>                                                                  |                                                                                        |
| AMOUNT OF SAMPLE                                                                                                           | SIZE <u>15cm x 15cm x 5cm</u>                                                          |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>7/9/01</u>                                                                           |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>10/22/02</u> BY <u>CKMudbury</u>                                                  |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                                             |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)<br><u>Horton Creek, Bishop, CA</u>                             |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Jim Evans, Craig Forster, Kelly</u><br><u>Bradbury, Susan Heath</u>                   |                                                                                        |
| SUPPLIER                                                                                                                   |                                                                                        |
| OTHER <u>BT-52-T31</u> <u>Subsample</u>                                                                                    |                                                                                        |
| CNWRA FORM TOP-004                                                                                                         |                                                                                        |

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| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM                                              |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-53-01</u>                                                                                  |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>graded pumice fallout</u><br><u>deposit - near/above</u><br><u>dye trace test @ this site</u> |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p17#486</u>                                                                          |                                                                                        |
| AMOUNT OF SAMPLE <u>field epoxied</u>                                                                                              | SIZE <u>15cm x 15cm x 7cm</u>                                                          |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>7/9/01</u>                                                                                   |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>10/22/02</u> BY <u>Kick Bradley</u>                                                       |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USLL</u>                                                                                    |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)<br><u>Horton Creek Site, Bishop, CA</u>                                |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Kelly Bradley, Jim Evans,</u><br><u>JD Smith, Heath, Craig Foster</u>                         |                                                                                        |
| SUPPLIER                                                                                                                           |                                                                                        |
| OTHER <u>BT-53-T31</u>                                                                                                             |                                                                                        |
|                                                                                                                                    |                                                                                        |
|                                                                                                                                    |                                                                                        |
| CNWRA FORM TOP-004                                                                                                                 |                                                                                        |

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| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM              |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-54-01</u>                                                  |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>inwest fdye test</u>                                          |                                                                                        |
| <u>bedded fault deposit</u>                                                                        |                                                                                        |
| <u>lost rock sample</u>                                                                            |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>P17#486</u>                                          |                                                                                        |
|                                                                                                    |                                                                                        |
| AMOUNT OF SAMPLE <u>field exposed</u>                                                              | SIZE <u>20cm dia x 15cm</u>                                                            |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>7/9/01</u>                                                   |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>10/22/02</u> BY <u>KK Bradley</u>                         |                                                                                        |
|                                                                                                    |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>LISL</u>                                                    |                                                                                        |
|                                                                                                    |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)                                        |                                                                                        |
| <u>Horton Creek, Bishop, CA</u>                                                                    |                                                                                        |
|                                                                                                    |                                                                                        |
|                                                                                                    |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S)                                                                  |                                                                                        |
|                                                                                                    |                                                                                        |
| SUPPLIER                                                                                           |                                                                                        |
| OTHER <u>BT-54-TS1</u> <u>Subsamples</u>                                                           |                                                                                        |
| <u>BT-54-XRD1</u>                                                                                  |                                                                                        |
|                                                                                                    |                                                                                        |
| CNWRA FORM TOP-004                                                                                 |                                                                                        |

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| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM                                                                 |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-55-01</u>                                                                                                     |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>2mm Fault surface</u><br><u>and hanging wall slab</u><br><u>from Chalk cave pit = 195/74W</u>                    |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p18 + 480</u> <sup>6.5, 90° takes</sup>                                                                 |                                                                                        |
| AMOUNT OF SAMPLE <u>933.8g</u>                                                                                                                        | SIZE <u>12x13x6 cm</u>                                                                 |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>7/10/01</u>                                                                                                     |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>10/22/02</u> BY <u>KKBradbury</u>                                                                            |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                                                                        |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)<br><u>Chalk cave, Chalk Bluff rd, Bidup, HI</u>                                           |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Kelly K. Bradbury</u><br><u>James P. Evans</u>                                                                   |                                                                                        |
| SUPPLIER                                                                                                                                              |                                                                                        |
| OTHER <u>BT-55-T31</u> <b>2/14/03 - This section</b><br><b>scheduled to arrive</b><br><b>to USU 2/18/03 -</b><br><b>processed by Burnham Peta, ID</b> |                                                                                        |
| CNWRA FORM TOP-004                                                                                                                                    |                                                                                        |

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| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM              |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-56-02</u>                                                  |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>pit 2 sample - 2m</u>                                         |                                                                                        |
| <u>east of pit 2 caliche</u>                                                                       |                                                                                        |
| <u>small fracture w/dye</u>                                                                        |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p129 #486</u>                                        |                                                                                        |
| <u>also p70 #476</u>                                                                               |                                                                                        |
| AMOUNT OF SAMPLE                                                                                   | SIZE                                                                                   |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>2/4/02</u>                                                   |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>10/9/02</u> BY <u>KK Badbury</u>                          |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                     |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)                                        |                                                                                        |
| <u>Borrow Pit 2, Barnwell Quarry</u>                                                               |                                                                                        |
| <u>Bishop, CA</u>                                                                                  |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Tim P. Evans</u>                                              |                                                                                        |
| SUPPLIER                                                                                           |                                                                                        |
| OTHER <u>Subsample BT-56-TS1</u>                                                                   |                                                                                        |
|                                                                                                    |                                                                                        |
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| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM              |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-57-02</u>                                                  |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>See BT-56-02</u>                                              |                                                                                        |
| <u>Small Caliche - calcite</u>                                                                     |                                                                                        |
| <u>fracture by Pit 2 - E of Pit 2</u>                                                              |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p 70 #476</u>                                        |                                                                                        |
| AMOUNT OF SAMPLE                                                                                   | SIZE                                                                                   |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>2/5/02</u>                                                   |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>10/9/02</u> BY <u>KKB</u>                                 |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                     |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)                                        |                                                                                        |
| <u>Banner Pit, Bishop, CA</u>                                                                      |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Jim Evans</u>                                                 |                                                                                        |
| SUPPLIER                                                                                           |                                                                                        |
| OTHER <u><del>BT-57-XRD</del> KKB 10/9/02</u>                                                      |                                                                                        |
| <u>BT-57-TS1</u>                                                                                   |                                                                                        |
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| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM              |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-58-02</u>                                                  |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>Large sample of</u>                                           |                                                                                        |
| <u>partly welded diff from</u>                                                                     |                                                                                        |
| <u>fractures with dye near Pit 2</u>                                                               |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p 70 #476</u>                                        |                                                                                        |
| AMOUNT OF SAMPLE                                                                                   | SIZE                                                                                   |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>2/5/02</u>                                                   |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>10/9/02</u> BY <u>KK Badgley</u>                          |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                     |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)                                        |                                                                                        |
| <u>Barnow Pit Site, Bishop, CA</u>                                                                 |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>JM Evans</u>                                                  |                                                                                        |
| SUPPLIER                                                                                           |                                                                                        |
| OTHER <u>BT-58-TS1</u> <u>Subsample</u>                                                            |                                                                                        |
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| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM                                          |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-59-02</u>                                                                              |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>West of Bannw Pit</u><br><u>from welded unit with</u><br><u>coated faults / fractures</u> |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p70-71 #476</u>                                                                  |                                                                                        |
| AMOUNT OF SAMPLE                                                                                                               | SIZE                                                                                   |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>2/5/02</u>                                                                               |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>10/9/02</u> BY <u>KK Badbury</u>                                                      |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                                                 |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)<br><u>Bannw Pit area, Bishop CA</u>                                |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>JIM EVANS</u>                                                                             |                                                                                        |
| SUPPLIER                                                                                                                       |                                                                                        |
| OTHER <u>BT-59-TS1</u>                                                                                                         |                                                                                        |
|                                                                                                                                |                                                                                        |
|                                                                                                                                |                                                                                        |
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| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM              |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-600-02</u>                                                 |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>faults and mineralization</u>                                 |                                                                                        |
| <u>in near-welded units</u>                                                                        |                                                                                        |
| <u>faults 05/84</u>                                                                                |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p72 #476</u>                                         |                                                                                        |
| AMOUNT OF SAMPLE                                                                                   | SIZE                                                                                   |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>2/5/02</u>                                                   |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>10/9/02</u> BY <u>KE Bradley</u>                          |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                     |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)                                        |                                                                                        |
| <u>West of Barrow Pit, Bishop, CA</u>                                                              |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Jim Evans</u>                                                 |                                                                                        |
| SUPPLIER                                                                                           |                                                                                        |
| OTHER <u>BT-600TS1 sub sample</u>                                                                  |                                                                                        |
|                                                                                                    |                                                                                        |
|                                                                                                    |                                                                                        |
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| <b>ENTER FOR NUCLEAR WASTE<br/>REGULATORY ANALYSES</b><br><br><b>TECHNICAL OPERATING PROCEDURE</b> | Proc. <u>TOP-012</u><br>Revision <u>2</u> Change <u>0</u><br>Page <u>6</u> of <u>6</u> |
| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM              |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-61-02</u>                                                  |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>faults and mineralization</u>                                 |                                                                                        |
| <u>fault = 005°/76°</u>                                                                            |                                                                                        |
| <u>West of Barn Pit</u>                                                                            |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p 72 #476</u>                                        |                                                                                        |
| AMOUNT OF SAMPLE                                                                                   | SIZE                                                                                   |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>2/5/02</u>                                                   |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>10/9/02</u> BY <u>KK Bedbury</u>                          |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                     |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)                                        |                                                                                        |
| <u>West of Barn Pit, Bishop, CA</u>                                                                |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Jim Evans</u>                                                 |                                                                                        |
| SUPPLIER                                                                                           |                                                                                        |
| OTHER <u>BT-61-TS1</u>                                                                             |                                                                                        |
|                                                                                                    |                                                                                        |
|                                                                                                    |                                                                                        |
| CNWRA FORM TOP-004                                                                                 |                                                                                        |

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| <b>ENTER FOR NUCLEAR WASTE<br/>REGULATORY ANALYSES</b><br><br><b>TECHNICAL OPERATING PROCEDURE</b>                                                      | Proc. <u>TOP-012</u><br>Revision <u>2</u> Change <u>0</u><br>Page <u>6</u> of <u>6</u> |
| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM                                                                   |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-62-02</u>                                                                                                       |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>poorly welded to non-welded</u><br><u>1-2mm punice fragments w/</u><br><u>fractures 1-3cm apart; 9m east of FH</u> |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>P73 #1476</u>                                                                                             |                                                                                        |
| AMOUNT OF SAMPLE                                                                                                                                        | SIZE                                                                                   |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>2/5/02</u>                                                                                                        |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>10/9/02</u> BY <u>KKBradbury</u>                                                                               |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>US11</u>                                                                                                         |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)<br><u>Cmcifix Site, Chalk Bluffs Road</u>                                                   |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Jim Evans</u>                                                                                                      |                                                                                        |
| SUPPLIER                                                                                                                                                |                                                                                        |
| OTHER <u>BT-62-TB1 Subsample</u>                                                                                                                        |                                                                                        |
|                                                                                                                                                         |                                                                                        |
| CNWRA FORM TOP-004                                                                                                                                      |                                                                                        |

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| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM                                                                                                         |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-67-01</u>                                                                                                                                             |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>Collected 1.5 m east of</u><br><u>main crucifix fault - strat level same as BT-62</u><br><u>fractured <sup>brecciated</sup> stuff w/ abundant p. mic</u> |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>P 77 #476</u>                                                                                                                                   |                                                                                        |
| AMOUNT OF SAMPLE <u>367.4 g +</u>                                                                                                                                                             | SIZE <u>10.2 x 9 x 7.9 cm</u><br><u>11 x 10 x 3.5 cm</u><br><u>22 x 14 x 7.5 cm</u>    |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>2/5/02</u>                                                                                                                                              |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>10/22/02</u> BY <u>KK [signature]</u>                                                                                                                |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                                                                                                                |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)<br><u>Crucifix Site, Chalk Bluffs,</u><br><u>Biology, CA</u>                                                                      |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Jim Evans</u>                                                                                                                                            |                                                                                        |
| SUPPLIER                                                                                                                                                                                      |                                                                                        |
| OTHER <u>BT-63-XRDI</u><br><u>BT-63-TS1 - expired, not cut yet</u><br><u>2/14/03</u>                                                                                                          |                                                                                        |
| CNWRA FORM TOP-004                                                                                                                                                                            |                                                                                        |

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| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM                                                   |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-04-02</u>                                                                                       |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>gray-green ashylarge</u><br><u>2.5m East into hanging wall</u><br><u>from Crucifix fault trace</u> |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p73 #476</u>                                                                              |                                                                                        |
| AMOUNT OF SAMPLE <u>7.5 lbs</u>                                                                                                         | SIZE <u>22x15x11cm</u>                                                                 |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>2/15/02</u>                                                                                       |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>10/22/02</u> BY <u>IC/K. [signature]</u>                                                       |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                                                          |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)<br><u>Crucifix, Bishop, CA</u>                                              |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Jim Evans</u>                                                                                      |                                                                                        |
| SUPPLIER                                                                                                                                |                                                                                        |
| OTHER <u>BT-04-TS1</u> <b>exposed; needs/ready</b><br><b>to send for thin section</b><br><b>2/14/03</b>                                 |                                                                                        |
| CNWRA FORM TOP-004                                                                                                                      |                                                                                        |

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| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM              |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-05-02</u>                                                  |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>50cm below dyc Test</u>                                       |                                                                                        |
| <u>Pit 1, barrel pit</u>                                                                           |                                                                                        |
| <u>truff - slight to rounded</u>                                                                   |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p 74 #476</u>                                        |                                                                                        |
| AMOUNT OF SAMPLE                                                                                   | SIZE                                                                                   |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>2/5/02</u>                                                   |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>10/22/02</u> BY <u>K. K. Brady</u>                        |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                     |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)                                        |                                                                                        |
| <u>Barrel Pit, Bishop, CA</u>                                                                      |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>JIMMERANS</u>                                                 |                                                                                        |
| SUPPLIER                                                                                           |                                                                                        |
| OTHER <u>BT-05-TS1</u>                                                                             |                                                                                        |
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| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM                                                     |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-66-02</u>                                                                                         |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>50cm below Test Pit 1</u><br><u>dye tracer test, borrow pit</u><br><u>buff, slightly - Nonwelded</u> |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p74#476</u>                                                                                 |                                                                                        |
| AMOUNT OF SAMPLE                                                                                                                          | SIZE                                                                                   |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>2/5/02</u>                                                                                          |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>10/22/02</u> BY <u>K. K. K.</u>                                                                  |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                                                            |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)<br><u>Borrow Pit, Bishop, CA</u>                                              |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>JIM EVANS</u>                                                                                        |                                                                                        |
| SUPPLIER                                                                                                                                  |                                                                                        |
| OTHER <u>BT-66-TS1</u>                                                                                                                    |                                                                                        |
|                                                                                                                                           |                                                                                        |
|                                                                                                                                           |                                                                                        |
| CNWRA FORM TOP-004                                                                                                                        |                                                                                        |

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| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM                                    |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>MT-67-02</u>                                                                        |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>oriented sample of</u><br><u>fault surface 15/67E</u><br><u>east crucifix fault</u> |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p 74 #476</u>                                                              |                                                                                        |
| AMOUNT OF SAMPLE                                                                                                         | SIZE                                                                                   |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>2/5/02</u>                                                                         |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>10/22/02</u> BY <u>KKM</u>                                                      |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>US4</u>                                                                           |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)                                                              |                                                                                        |
| <u>Crucifix Site <del>Barro Colorado</del>, Bishop, CA</u><br><u>10/22/02 KKB</u>                                        |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>JIMMERANS</u>                                                                       |                                                                                        |
| SUPPLIER                                                                                                                 |                                                                                        |
| OTHER <u>MT-67-TS1</u> <u>subsample</u>                                                                                  |                                                                                        |
| CNWRA FORM TOP-004                                                                                                       |                                                                                        |

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| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM                                                     |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-68-02</u>                                                                                         |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>from east edge of fault</u><br><u>5 cm gauge line and slip surface</u><br><u>and 5 cm wide gauge</u> |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p 9 #499</u>                                                                                |                                                                                        |
| AMOUNT OF SAMPLE                                                                                                                          | SIZE                                                                                   |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>2/6/02</u>                                                                                          |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>10/22/02</u> BY <u>KK Bradley</u>                                                                |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                                                            |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)                                                                               |                                                                                        |
| <u>Craig's Site, Chalk Bluff rd</u>                                                                                                       |                                                                                        |
| <u>Bl. Map, CA</u>                                                                                                                        |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Tim Evans</u>                                                                                        |                                                                                        |
| SUPPLIER                                                                                                                                  |                                                                                        |
| OTHER <u>BT-68-TS1</u> <u>Subsamples</u>                                                                                                  |                                                                                        |
| <u>BT-68-TS2</u>                                                                                                                          |                                                                                        |
| <u>BT-68-TS3 - 5 cm wide gauge</u>                                                                                                        |                                                                                        |
| CNWRA FORM TOP-004 <u>BT-68-TS4</u>                                                                                                       |                                                                                        |

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| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM                |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-69-02</u>                                                    |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>Small fractured sample</u><br><u>from top of white tuff out</u> |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p9#499</u>                                             |                                                                                        |
| AMOUNT OF SAMPLE                                                                                     | SIZE                                                                                   |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>2/6/02</u>                                                     |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>10/22/02</u> BY <u>KCB</u>                                  |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                       |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)<br><u>Cumfix Site, Bishop, CA</u>        |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>JIM EVANS</u>                                                   |                                                                                        |
| SUPPLIER                                                                                             |                                                                                        |
| OTHER <u>BT-69-T21</u>                                                                               |                                                                                        |
|                                                                                                      |                                                                                        |
| CNWRA FORM TOP-004                                                                                   |                                                                                        |

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| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM                                    |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-70-02</u>                                                                        |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>large fractured sample</u><br><u>from sandy gray-white</u><br><u>tuffaceous bed</u> |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p 9 #499</u>                                                               |                                                                                        |
| AMOUNT OF SAMPLE <u>2200g</u>                                                                                            | SIZE <u>19x16x11cm</u><br><u>15.5x12x6cm</u>                                           |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>2/06/02</u>                                                                        |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>10/22/02</u> BY <u>KKBradley</u>                                                |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                                           |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)<br><u>Cumfix site, Bishop, CA</u>                            |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>JIM EVANS</u>                                                                       |                                                                                        |
| SUPPLIER                                                                                                                 |                                                                                        |
| OTHER <u>BT-70-T31 (epoxy almost complete &amp;</u><br><u>ready to send 2/12/03</u>                                      |                                                                                        |
| CNWRA FORM TOP-004                                                                                                       |                                                                                        |

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| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM                                              |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-71-02</u>                                                                                  |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>Fault surface coating</u><br><u>white material - chalk</u><br><u>cave fault; ~1-2mm thick</u> |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p 20-21; #509</u>                                                                    |                                                                                        |
| AMOUNT OF SAMPLE <u>9.8g</u>                                                                                                       | SIZE <u>5.5 x 4cm</u>                                                                  |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>5/19/02</u>                                                                                  |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>10/22/02</u> BY <u>KK Bradbury</u>                                                        |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                                                     |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)<br><u>Chalk cave site, Bishop, CA</u>                                  |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Kelly K. Bradbury</u>                                                                         |                                                                                        |
| SUPPLIER <u>-</u>                                                                                                                  |                                                                                        |
| OTHER <u>BT-71-XED1</u> <u>Subsamples</u><br><u>BT-71-GSI</u>                                                                      |                                                                                        |
| CNWRA FORM TOP-004                                                                                                                 |                                                                                        |

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| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM                                                  |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-72-02</u>                                                                                      |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>Fault zone core / contact</u><br><u>upper exposure of fault</u><br><u>near 72m - CC trace map</u> |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p21 #509</u>                                                                             |                                                                                        |
| AMOUNT OF SAMPLE <u>10.9g</u>                                                                                                          | SIZE <u>7.3 x 1.8 cm</u>                                                               |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>5/19/02</u>                                                                                      |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>10/22/02</u> BY <u>KIC Bradley</u>                                                            |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                                                         |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)<br><u>Chalk Cove Site; Chalk Bluff Rd</u><br><u>Bishop, CA</u>             |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Kelly K. Bradley</u>                                                                              |                                                                                        |
| SUPPLIER                                                                                                                               |                                                                                        |
| OTHER <u>BT-72-XRD1</u><br><u>BT-72-XRD2</u>                                                                                           |                                                                                        |
| CNWRA FORM TOP-004                                                                                                                     |                                                                                        |

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| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM                                        |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-73-02</u>                                                                            |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>fault zone gouge</u><br><u>hanging wall side of</u><br><u>chalk cave fault</u>          |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p24 #509</u>                                                                   |                                                                                        |
| AMOUNT OF SAMPLE                                                                                                             | SIZE                                                                                   |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>5/20/02</u>                                                                            |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>10/9/02</u> BY <u>KKBradbury</u>                                                    |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                                               |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)<br><u>Chalk cave site, Chalk</u><br><u>Bluffs Rd, Bishop, CA</u> |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Kelly K Bradbury</u>                                                                    |                                                                                        |
| SUPPLIER                                                                                                                     |                                                                                        |
| OTHER <u>BT-73-GSI</u> <u>Subsamples</u><br><u>BT-73-XRDI</u>                                                                |                                                                                        |
| CNWRA FORM TOP-004                                                                                                           |                                                                                        |

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| <b>ENTER FOR NUCLEAR WASTE<br/>REGULATORY ANALYSES</b><br><br><b>TECHNICAL OPERATING PROCEDURE</b>                                                      | Proc. <u>TOP-012</u><br>Revision <u>2</u> Change <u>0</u><br>Page <u>6</u> of <u>6</u> |
| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM                                                                   |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-74-02</u>                                                                                                       |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>White, non-welded pebbly</u><br><u>Fault' 182172W pumice beds - Foothill</u><br><u>fault core chalk core fault</u> |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p24 #509</u>                                                                                              |                                                                                        |
|                                                                                                                                                         |                                                                                        |
| AMOUNT OF SAMPLE <u>136 g</u>                                                                                                                           | SIZE <u>10x8.5x4.5cm</u>                                                               |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>5/20/02</u>                                                                                                       |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>10/22/02</u> BY <u>KKBradbury</u>                                                                              |                                                                                        |
|                                                                                                                                                         |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                                                                          |                                                                                        |
|                                                                                                                                                         |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)                                                                                             |                                                                                        |
| <u>Chalk Cove Site; Chalk Bluffs Rd</u><br><u>Bishop, CA</u>                                                                                            |                                                                                        |
|                                                                                                                                                         |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Kelly K. Bradbury</u>                                                                                              |                                                                                        |
|                                                                                                                                                         |                                                                                        |
| SUPPLIER                                                                                                                                                |                                                                                        |
| OTHER <u>BT-74-XRD1</u>                                                                                                                                 |                                                                                        |
| <u>BT-74-GS1</u>                                                                                                                                        |                                                                                        |
|                                                                                                                                                         |                                                                                        |
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| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM                                      |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-75a-02</u>                                                                         |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>Hanging wall gage - loose</u><br><u>of crucifix fault</u><br><u>grain size sample</u> |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p 30 # 509</u>                                                               |                                                                                        |
| AMOUNT OF SAMPLE                                                                                                           | SIZE                                                                                   |
| DATE OF SAMPLE RECEIPT (Mandatory) <sup>KKB</sup> <u>10/5/2/102</u>                                                        |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>10/16/02</u> BY <u>KKB</u>                                                        |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                                             |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)                                                                |                                                                                        |
| <u>Crucifix Site - Chalk Bluffs Rd</u><br><u>Bishop, CA</u>                                                                |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Kelley K Bradbury</u>                                                                 |                                                                                        |
| SUPPLIER                                                                                                                   |                                                                                        |
| OTHER <u>BT-75a - XRD1</u><br><u>BT-75a - GSI</u>                                                                          |                                                                                        |
| CNWRA FORM TOP-004                                                                                                         |                                                                                        |

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| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM                                      |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-75b-02</u>                                                                         |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>Crucifix fault central</u><br><u>fault gauge</u>                                      |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p30 # 509</u>                                                                |                                                                                        |
| AMOUNT OF SAMPLE                                                                                                           | SIZE                                                                                   |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>5/21/02</u>                                                                          |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>10/16/02</u> BY <u>KKBradbury</u>                                                 |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                                             |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)<br><u>Crucifix Site, Chalk Bluffs Rd,</u><br><u>Bishop, CA</u> |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Kelly K. Bradbury</u>                                                                 |                                                                                        |
| SUPPLIER                                                                                                                   |                                                                                        |
| OTHER <u>BT-75b-051</u>                                                                                                    |                                                                                        |
| <u>BT-75b-X12D1</u>                                                                                                        |                                                                                        |
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| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM              |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-75C-02</u>                                                 |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>Footwall surface of</u><br><u>Cmcifix fault</u>               |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p 30 #509</u>                                        |                                                                                        |
| AMOUNT OF SAMPLE                                                                                   | SIZE                                                                                   |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>5/21/02</u>                                                  |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>10/16/02</u> BY <u>KK Bradbury</u>                        |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                     |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)                                        |                                                                                        |
| <u>Cmcifix Site; Chalk Bluffs Road</u><br><u>Bishop, CA</u>                                        |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Kelly K. Bradbury</u>                                         |                                                                                        |
| SUPPLIER                                                                                           |                                                                                        |
| OTHER <u>BT-75C-GSI</u> <u>subsamples</u><br><u>BT-75C-XRD1</u>                                    |                                                                                        |
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| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM                                         |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-76a-02</u>                                                                            |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>Hanging wall side of</u><br><u>East wedge fault Cucifix</u><br><u>Site - fault gouge</u> |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p 31 #509</u>                                                                   |                                                                                        |
| AMOUNT OF SAMPLE                                                                                                              | SIZE                                                                                   |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>5/21/02</u>                                                                             |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>10/16/02</u> BY <u>KBradbury</u>                                                     |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                                                |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)                                                                   |                                                                                        |
| <u>Cucifix Site, Chalk Bluffs Rd</u><br><u>Bishop CA</u>                                                                      |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Kelly K Bradbury</u>                                                                     |                                                                                        |
| SUPPLIER                                                                                                                      |                                                                                        |
| OTHER <u>BT-76a-GSI</u><br><u>BT-76a-XRD1</u>                                                                                 |                                                                                        |
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| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM                     |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-766b-02</u>                                                       |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>Central fault gorge</u><br><u>of East wedge fault</u><br><u>core</u> |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p31 # 509</u>                                               |                                                                                        |
| AMOUNT OF SAMPLE                                                                                          | SIZE                                                                                   |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>5/21/02</u>                                                         |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>10/16/02</u> BY <u>KK Bradbury</u>                               |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                            |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)                                               |                                                                                        |
| <u>Crucifix Site, crossing faults.</u>                                                                    |                                                                                        |
| <u>Chalks bluff road</u>                                                                                  |                                                                                        |
| <u>Bishop, CA</u>                                                                                         |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Kelly K. Bradbury</u>                                                |                                                                                        |
| SUPPLIER                                                                                                  |                                                                                        |
| OTHER <u>Subsamples - BT-766b-051</u><br><u>BT-766b-XRD1</u>                                              |                                                                                        |
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| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM              |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-76c-02</u>                                                 |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>Footwall surface of</u><br><u>east wedge fault</u>            |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p34#509</u>                                          |                                                                                        |
| AMOUNT OF SAMPLE                                                                                   | SIZE                                                                                   |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>5/21/02</u>                                                  |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>10/16/02</u> BY <u>K. K. Bradbury</u>                     |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                     |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)                                        |                                                                                        |
| <u>Crossing faults, CMCifix Site</u>                                                               |                                                                                        |
| <u>Chalk Bluffs Road</u>                                                                           |                                                                                        |
| <u>Bishop, CA</u>                                                                                  |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Kelly K. Bradbury</u>                                         |                                                                                        |
| SUPPLIER                                                                                           |                                                                                        |
| OTHER Subsamples: <u>BT-76c-051</u>                                                                |                                                                                        |
| <u>BT-76c-XRD1</u>                                                                                 |                                                                                        |
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| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM                             |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-77-02</u>                                                                 |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>West Wedge fault surface</u><br><u>planar, one main gauge</u><br><u>zone</u> |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p31 #509</u>                                                        |                                                                                        |
| AMOUNT OF SAMPLE                                                                                                  | SIZE                                                                                   |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>5/21/02</u>                                                                 |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>10/16/02</u> BY <u>KKBradbury</u>                                        |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                                    |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)                                                       |                                                                                        |
| <u>Crossing faults, Crucifix Site</u><br><u>Chalk Bluffs Road</u><br><u>Bishop, CA</u>                            |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Kelly K. Bradbury</u>                                                        |                                                                                        |
| SUPPLIER                                                                                                          |                                                                                        |
| OTHER <u>Subsamples: BT-77-GS1</u><br><u>BT-77-XRD1</u>                                                           |                                                                                        |
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| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM              |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-78a-02</u>                                                 |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>Hanging wall fault</u>                                        |                                                                                        |
| <u>core gage of central</u>                                                                        |                                                                                        |
| <u>(major) Chalk cave fault</u>                                                                    |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p 31 #509</u>                                        |                                                                                        |
| AMOUNT OF SAMPLE                                                                                   | SIZE                                                                                   |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>5/21/02</u>                                                  |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>10/16/02</u> BY <u>KK Bradburn</u>                        |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USL1</u>                                                    |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)                                        |                                                                                        |
| <u>Chalk cave, Chalk Bluffs Road</u>                                                               |                                                                                        |
| <u>Bishop, CA</u>                                                                                  |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Kelly K. Bradburn</u>                                         |                                                                                        |
| SUPPLIER                                                                                           |                                                                                        |
| OTHER <u>Subsamples - BT-78a-051</u>                                                               |                                                                                        |
| <u>BT-78a-XRD1</u>                                                                                 |                                                                                        |
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**SAMPLE CUSTODY/CONTROL LOG ENTRY FORM**

SAMPLE IDENTIFICATION (Mandatory) BT-78b-02

DESCRIPTION OF SAMPLE (Mandatory) Central fault core  
grist - loose sample  
for grain size analysis

REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY p31 #509

AMOUNT OF SAMPLE

SIZE

DATE OF SAMPLE RECEIPT (Mandatory) 5/21/02

DATE OF INITIAL LOG ENTRY (Mandatory) 10/16/02 BY KK Bradbury

SAMPLE STORAGE LOCATION (Mandatory) USU

COLLECTION SITE (Reference Maps or Field Notes As Required)

Chalk Cove Fault, Chalk  
Bluffs Road, Bishop, CA

PERSON(S) WHO COLLECTED SAMPLE(S) Kelly K. Bradbury

SUPPLIER

OTHER Subsamples - BT-78b-XRD1  
BT-78b-GS1

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| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM                                  |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-78c-02</u>                                                                     |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>Footwall Surface of</u><br><u>fault strand -</u>                                  |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p31#509</u>                                                              |                                                                                        |
| AMOUNT OF SAMPLE                                                                                                       | SIZE                                                                                   |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>5/21/02</u>                                                                      |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>10/16/02</u> BY <u>KK Bradbury</u>                                            |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                                         |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)<br><u>Chalk Cove, Chalk Bluffs Rd</u><br><u>Bishop, CA</u> |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Kelly K. Bradbury</u>                                                             |                                                                                        |
| SUPPLIER                                                                                                               |                                                                                        |
| OTHER <u>Subsamples</u> <u>BT-78c-651</u><br><u>BT-78c-<del>651</del> XRD1</u><br><u>KICB</u><br><u>10/16/02</u>       |                                                                                        |
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| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM                                             |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-79-02</u>                                                                                 |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>Hanging wall host rock</u><br><u>of Chalk Cove fault</u><br><u>slightly welded Buff Tuff</u> |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p31 #509</u>                                                                        |                                                                                        |
| AMOUNT OF SAMPLE                                                                                                                  | SIZE                                                                                   |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>5/21/02</u>                                                                                 |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>10/16/02</u> BY <u>KK Bradbury</u>                                                       |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                                                    |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)                                                                       |                                                                                        |
| <u>Chalk Cove, Chalk Bluffs Rd</u><br><u>Pittsburg, CA</u>                                                                        |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Kelly K Bradbury</u>                                                                         |                                                                                        |
| SUPPLIER                                                                                                                          |                                                                                        |
| OTHER <u>Subsamples - BT-79-651</u><br><u>BT-79-X12 D1</u>                                                                        |                                                                                        |
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| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br><br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM          |                                                                                                |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-80-02</u>                                                  |                                                                                                |
| DESCRIPTION OF SAMPLE (Mandatory) <u>Footwall host rock</u>                                        |                                                                                                |
| <u>Lithology of Chalk cave fault</u>                                                               |                                                                                                |
| <u>white non-bedded bedded pmic</u>                                                                |                                                                                                |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p31 #509</u>                                         |                                                                                                |
| AMOUNT OF SAMPLE                                                                                   | SIZE                                                                                           |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>5/21/02</u>                                                  |                                                                                                |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>10/16/02</u> BY <u>KKBradley</u>                          |                                                                                                |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                     |                                                                                                |
| COLLECTION SITE (Reference Maps or Field Notes As Required)                                        |                                                                                                |
| <u>Chalk cave fault, chalk bluffs road</u>                                                         |                                                                                                |
| <u>Bishop, CA</u>                                                                                  |                                                                                                |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Kelly K Bradley</u>                                           |                                                                                                |
| SUPPLIER                                                                                           |                                                                                                |
| OTHER <u>Subsamples - BT-80-651</u>                                                                |                                                                                                |
| <u>BT-80-XRDI</u>                                                                                  |                                                                                                |
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| <b>ENTER FOR NUCLEAR WASTE<br/>REGULATORY ANALYSES</b><br><br><b>TECHNICAL OPERATING PROCEDURE</b>                                               | Proc. <u>TOP-012</u><br><br>Revision <u>2</u> Change <u>0</u><br><br>Page <u>6</u> of <u>6</u> |
| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br><br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM                                                        |                                                                                                |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-81-02</u>                                                                                                |                                                                                                |
| DESCRIPTION OF SAMPLE (Mandatory) <u>Footwall host rock -</u><br><u>slightly altered footwall gneiss banding</u><br><u>2m thick - Chalk Cove</u> |                                                                                                |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p52 #509</u>                                                                                       |                                                                                                |
| AMOUNT OF SAMPLE                                                                                                                                 | SIZE                                                                                           |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>6/21/02</u>                                                                                                |                                                                                                |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>10/16/02</u> BY <u>KK Bradbury</u>                                                                      |                                                                                                |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                                                                   |                                                                                                |
| COLLECTION SITE (Reference Maps or Field Notes As Required)                                                                                      |                                                                                                |
| <u>Chalk Cove; Chalk Cove Bluffs Rd.</u><br><u>Bishop, CA</u> <span style="float: right;"><u>10/16/02</u></span>                                 |                                                                                                |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Kelly K. Bradbury</u>                                                                                       |                                                                                                |
| SUPPLIER                                                                                                                                         |                                                                                                |
| OTHER <u><del>BT-81-05</del> 10/16/02 KKB</u><br><u>BT-81-XRD1</u>                                                                               |                                                                                                |
| CNWRA FORM TOP-004                                                                                                                               |                                                                                                |

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| <b>ENTER FOR NUCLEAR WASTE<br/>REGULATORY ANALYSES</b><br><br><b>TECHNICAL OPERATING PROCEDURE</b>                                                      | Proc. <u>TOP-012</u><br>Revision <u>2</u> Change <u>0</u><br>Page <u>6</u> of <u>6</u> |
| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM                                                                   |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-82-02</u>                                                                                                       |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>Central fault gorge</u><br><u>from chalk cave fault</u><br><u>at 7m</u>                                            |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p 52 #509</u>                                                                                             |                                                                                        |
| AMOUNT OF SAMPLE <u>111.3g</u>                                                                                                                          | SIZE <u>9.5 x 5.5 x 2.3 cm</u>                                                         |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>12/21/02</u>                                                                                                      |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>10/16/02</u> BY <u>Kelly K Bradbury</u>                                                                        |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                                                                          |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)<br><u>Chalk cave trace map, Chalk cave</u><br><u>Chalk bluffs road</u><br><u>Bisbee, CA</u> |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Kelly K Bradbury</u>                                                                                               |                                                                                        |
| SUPPLIER                                                                                                                                                |                                                                                        |
| OTHER <u>BT-82-XRD1</u><br><u>BT-82-TS1 (epoxied, waiting for thin section slide)</u><br><u>2/12/02</u>                                                 |                                                                                        |
| CNWRA FORM TOP-004                                                                                                                                      |                                                                                        |

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| <b>ENTER FOR NUCLEAR WASTE<br/>REGULATORY ANALYSES</b><br><br><b>TECHNICAL OPERATING PROCEDURE</b>                                                                                      | Proc. <u>TOP-012</u><br>Revision <u>2</u> Change <u>0</u><br>Page <u>6</u> of <u>6</u> |
| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM                                                                                                   |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>PT-83-02</u>                                                                                                                                       |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <sup>10/16/02</sup> <u>Footwall mixed zone Hanging-wall</u><br><u>@ 10.4m along chalk cave fault</u><br><u>trace map - possibly a Footwall block?</u> |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p 57 # 509</u>                                                                                                                            |                                                                                        |
| AMOUNT OF SAMPLE                                                                                                                                                                        | SIZE                                                                                   |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>6/23/02</u>                                                                                                                                       |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>10/16/02</u> BY <u>KK Bradbury</u>                                                                                                             |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                                                                                                          |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)                                                                                                                             |                                                                                        |
| <u>Chalk cave, Chalk Bluff Rd</u>                                                                                                                                                       |                                                                                        |
| <u>Brookings, IA</u>                                                                                                                                                                    |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Kelly K. Bradbury</u>                                                                                                                              |                                                                                        |
| SUPPLIER                                                                                                                                                                                |                                                                                        |
| OTHER <u>PT-83-XRDI</u>                                                                                                                                                                 |                                                                                        |
|                                                                                                                                                                                         |                                                                                        |
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| CNWRA FORM TOP-004                                                                                                                                                                      |                                                                                        |

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| <b>ENTER FOR NUCLEAR WASTE<br/>REGULATORY ANALYSES</b><br><br><b>TECHNICAL OPERATING PROCEDURE</b>                                     | Proc. <u>TOP-012</u><br>Revision <u>2</u> Change <u>0</u><br>Page <u>6</u> of <u>6</u> |
| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM                                                  |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>PT-94-02</u>                                                                                      |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>iron-oxide stained fauet</u><br><u>geuge within Hangingwall</u><br><u>mixed zone @ 10.4m CCFt</u> |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p57#509</u>                                                                              |                                                                                        |
| AMOUNT OF SAMPLE                                                                                                                       | SIZE                                                                                   |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>6/23/02</u>                                                                                      |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>10/16/02</u> BY <u>KKBradbury</u>                                                             |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                                                         |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)                                                                            |                                                                                        |
| <u>Chalk cave site, chalk Bluff Road</u><br><u>Bishop, CA</u>                                                                          |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Kelly K Bradbury</u>                                                                              |                                                                                        |
| SUPPLIER                                                                                                                               |                                                                                        |
| OTHER <u>PT-94-X12D1</u>                                                                                                               |                                                                                        |
|                                                                                                                                        |                                                                                        |
| CNWRA FORM TOP-004                                                                                                                     |                                                                                        |

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| <b>ENTER FOR NUCLEAR WASTE<br/>REGULATORY ANALYSES</b><br><br><b>TECHNICAL OPERATING PROCEDURE</b>                                             | Proc. <u>TOP-012</u><br>Revision <u>2</u> Change <u>0</u><br>Page <u>6</u> of <u>6</u> |
| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM                                                          |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-85-02</u>                                                                                              |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>Iron oxide stained</u><br><u>Block between HW fracture</u><br><u>1 &amp; 2 @ 11-11.15m chalk cave fit</u> |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p57 #509</u>                                                                                     |                                                                                        |
| AMOUNT OF SAMPLE <u>237.1g</u>                                                                                                                 | SIZE <u>10 x 6 x 5 cm</u>                                                              |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>10/23/02</u>                                                                                             |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>10/16/02</u> BY <u>Kelly C. Bradley</u>                                                               |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                                                                 |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)<br><u>Chalk cave, Chalk bluff road</u><br><u>Bishop, CA</u>                        |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Kelly C. Bradley</u>                                                                                      |                                                                                        |
| SUPPLIER                                                                                                                                       |                                                                                        |
| OTHER <u>BT-85-XRD1</u><br><u>BT-85-TS1 (expired but not complete as of</u><br><u>2/13/03)</u>                                                 |                                                                                        |
| CNWRA FORM TOP-004                                                                                                                             |                                                                                        |

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| <b>ENTER FOR NUCLEAR WASTE<br/>REGULATORY ANALYSES</b>                                                               |  | Proc. <u>TOP-012</u>              |
| <b>TECHNICAL OPERATING PROCEDURE</b>                                                                                 |  | Revision <u>2</u> Change <u>0</u> |
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| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES                                                                         |  |                                   |
| SAMPLE CUSTODY/CONTROL LOG ENTRY FORM                                                                                |  |                                   |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-86-02</u>                                                                    |  |                                   |
| DESCRIPTION OF SAMPLE (Mandatory) <u>Fault core gauge</u><br><u>2m-thick from</u><br><u>13.7m long chalk core ft</u> |  |                                   |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p 5B#509</u>                                                           |  |                                   |
| AMOUNT OF SAMPLE                                                                                                     |  | SIZE                              |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>6/27/02</u>                                                                    |  |                                   |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>10/16/02</u> BY <u>KKBradbury</u>                                           |  |                                   |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                                       |  |                                   |
| COLLECTION SITE (Reference Maps or Field Notes As Required)                                                          |  |                                   |
| <u>Chalk cave fault, Chalk Bluff road</u><br><u>Bishop, CA</u>                                                       |  |                                   |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Kelly K. Bradbury</u>                                                           |  |                                   |
| SUPPLIER                                                                                                             |  |                                   |
| OTHER <u>BT-86-XRD1</u>                                                                                              |  |                                   |
| CNWRA FORM TOP-004                                                                                                   |  |                                   |

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| <b>ENTER FOR NUCLEAR WASTE<br/>REGULATORY ANALYSES</b><br><br><b>TECHNICAL OPERATING PROCEDURE</b>                                                    | Proc. <u>TOP-012</u><br>Revision <u>2</u> Change <u>0</u><br>Page <u>6</u> of <u>6</u> |
| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM                                                                 |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-87-02</u>                                                                                                     |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>At 14m chalk cave fault</u><br><u>trace map - sample in fractured</u><br><u>block on west side of fault core</u> |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p58#509</u><br><u>p53#509</u>                                                                           |                                                                                        |
| AMOUNT OF SAMPLE <u>241.3g</u>                                                                                                                        | SIZE <u>6x6.5x6.5cm</u>                                                                |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>10/23/02</u>                                                                                                    |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>10/16/02</u> BY <u>K.K. Bradley</u>                                                                          |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                                                                        |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)<br><u>chalk cave fault, chalk bluffs rd.</u><br><u>Bishop, CA</u>                         |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Kelly K. Bradley</u>                                                                                             |                                                                                        |
| SUPPLIER                                                                                                                                              |                                                                                        |
| OTHER <u>BT-87-XRD 1</u><br><u>BT-87-TS1 (epoxied but no complete)</u><br><u>2/13/03</u>                                                              |                                                                                        |
| CNWRA FORM TOP-004                                                                                                                                    |                                                                                        |

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**CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES**

**SAMPLE CUSTODY/CONTROL LOG ENTRY FORM**

SAMPLE IDENTIFICATION (Mandatory) BT-88-02

DESCRIPTION OF SAMPLE (Mandatory) Sample from rock  
between fault and hanging-  
wall fracture 4

REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY pk2 #509

AMOUNT OF SAMPLE

SIZE

DATE OF SAMPLE RECEIPT (Mandatory) 6/24/02

DATE OF INITIAL LOG ENTRY (Mandatory) 10/16/02 BY KC Brady

SAMPLE STORAGE LOCATION (Mandatory) USU

COLLECTION SITE (Reference Maps or Field Notes As Required)

Chalk cave fault trace map

Chalk cave

Chalk Bluffs road

Brinon, CA

PERSON(S) WHO COLLECTED SAMPLE(S) Kelly K. Brady

SUPPLIER

OTHER

BT-88-XLD1

CNWRA FORM TOP-004

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| <b>ENTER FOR NUCLEAR WASTE<br/>REGULATORY ANALYSES</b><br><br><b>TECHNICAL OPERATING PROCEDURE</b> | Proc. <u>TOP-012</u><br>Revision <u>2</u> Change <u>0</u><br>Page <u>6</u> of <u>6</u> |
| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM              |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-89-02</u>                                                  |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>Clay gouge from central fault</u>                             |                                                                                        |
| <u>5cm thick -</u>                                                                                 |                                                                                        |
| <u>~2m low CC2 survey</u>                                                                          |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>plet #509</u>                                        |                                                                                        |
| AMOUNT OF SAMPLE                                                                                   | SIZE                                                                                   |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>11/24/02</u>                                                 |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>10/16/02</u> BY <u>K. Bradbury</u>                        |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory)                                                                |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)                                        |                                                                                        |
| <u>refer to CC2 map, Chalk Cove</u>                                                                |                                                                                        |
| <u>Chalk Bluff rd</u>                                                                              |                                                                                        |
| <u>Bishop, CA</u>                                                                                  |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Kelly Bradbury</u>                                            |                                                                                        |
| SUPPLIER                                                                                           |                                                                                        |
| OTHER <u>BT-89-XRD1</u>                                                                            |                                                                                        |
|                                                                                                    |                                                                                        |
|                                                                                                    |                                                                                        |
| CNWRA FORM TOP-004                                                                                 |                                                                                        |

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| <b>ENTER FOR NUCLEAR WASTE<br/>REGULATORY ANALYSES</b><br><br><b>TECHNICAL OPERATING PROCEDURE</b>                             | Proc. <u>TOP-012</u><br>Revision <u>2</u> Change <u>0</u><br>Page <u>6</u> of <u>6</u> |
| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM                                          |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-90</u>                                                                                 |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>fault gauge at</u><br><u>scanline location 9.6m</u><br><u>crucifix site - small fault</u> |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p 164 #509</u>                                                                   |                                                                                        |
| AMOUNT OF SAMPLE <u>141.9g</u>                                                                                                 | SIZE <u>4x4 x 1cm</u>                                                                  |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>6/26/02</u>                                                                              |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>10/22/02</u>                                                                          | BY <u>KK Bradbury</u>                                                                  |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                                                 |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)<br><u>Crucifix, Chalk Bluff Rd</u>                                 |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Kelly K Bradbury</u>                                                                      |                                                                                        |
| SUPPLIER                                                                                                                       |                                                                                        |
| OTHER <u>BT-XRD1</u>                                                                                                           |                                                                                        |
| <u>BT-T31 (prepped and ready to send for</u><br><u>thin section for slide) 2/13/03</u>                                         |                                                                                        |
| CNWRA FORM TOP-004                                                                                                             |                                                                                        |

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| <b>ENTER FOR NUCLEAR WASTE<br/>REGULATORY ANALYSES</b><br><br><b>TECHNICAL OPERATING PROCEDURE</b>                            | Proc. <u>TOP-012</u><br>Revision <u>2</u> Change <u>0</u><br>Page <u>6</u> of <u>6</u> |
| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM                                         |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-91-02</u>                                                                             |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>Fault gouge at 9.6m</u><br><u>along scan line at</u><br><u>Cmufix site - small fault</u> |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p 64 #509</u>                                                                   |                                                                                        |
| AMOUNT OF SAMPLE <u>147.5g</u>                                                                                                | SIZE <u>14 x 4.5 x 2cm</u>                                                             |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>6/26/02</u>                                                                             |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>10/22/02</u> BY <u>KKBradbury</u>                                                    |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                                                |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)<br><u>Cmufix Site, Chalk Bluff Rd.</u><br><u>Bishop, CA</u>       |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Kelly K. Bradbury</u>                                                                    |                                                                                        |
| SUPPLIER                                                                                                                      |                                                                                        |
| OTHER <u>Subsamples - BT-91-XRD1</u><br><u>BT-91-TS1 (ready to send for</u><br><u>Thermochronology 2/13/08)</u>               |                                                                                        |
| CNWRA FORM TOP-004                                                                                                            |                                                                                        |

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| <b>ENTER FOR NUCLEAR WASTE<br/>REGULATORY ANALYSES</b><br><br><b>TECHNICAL OPERATING PROCEDURE</b>                          | Proc. <u>TOP-012</u><br>Revision <u>2</u> Change <u>0</u><br>Page <u>6</u> of <u>6</u> |
| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM                                       |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-92-02</u>                                                                           |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>lower greenish gray bed</u><br><u>10cm east of main crucifix</u><br><u>fault trace</u> |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>pl4#1509</u>                                                                  |                                                                                        |
| AMOUNT OF SAMPLE <u>237.9g</u>                                                                                              | SIZE <u>9x7x2.3cm</u>                                                                  |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>6/26/02</u>                                                                           |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>10/22/02</u> BY <u>IC Bradbury</u>                                                 |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                                              |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)<br><u>Crucifix Site, Bishop, CA</u>                             |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Kelly &amp; IC Bradbury</u>                                                            |                                                                                        |
| SUPPLIER                                                                                                                    |                                                                                        |
| OTHER <u>BT-92-XRD1</u> <u>Subsamples</u>                                                                                   |                                                                                        |
| <u>BT-92-TS1</u> <u>(ready for thin sectioning 2/13/03)</u><br><u>Slide not made to date</u>                                |                                                                                        |
| CNWRA FORM TOP-004                                                                                                          |                                                                                        |

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| <b>ENTER FOR NUCLEAR WASTE<br/>REGULATORY ANALYSES</b><br><br><b>TECHNICAL OPERATING PROCEDURE</b>                         | Proc. <u>TOP-012</u><br>Revision <u>2</u> Change <u>0</u><br>Page <u>6</u> of <u>6</u> |
| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM                                      |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-93-02</u>                                                                          |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>White Ash tail bed</u><br><u>at 5.1m along crucifix</u><br><u>scanline map</u>        |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>pl 4#509</u>                                                                 |                                                                                        |
| AMOUNT OF SAMPLE <u>132.2g</u>                                                                                             | SIZE <u>10 x 8 x 5 cm</u>                                                              |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>10/26/02</u>                                                                         |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>10/22/02</u> BY <u>KK Bradley</u>                                                 |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>UJN</u>                                                                             |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)<br><u>Crucifix Site, Chalk Bluff road</u><br><u>Bishop, CA</u> |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Kelly K Bradley</u>                                                                   |                                                                                        |
| SUPPLIER                                                                                                                   |                                                                                        |
| OTHER <u>BT-93-XRDI</u><br><u>BT-93-TS1 (prepared for this section - slides not</u><br><u>complete as of 2/13/03)</u>      |                                                                                        |
| CNWRA FORM TOP-004                                                                                                         |                                                                                        |

Attachment A



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| <b>ENTER FOR NUCLEAR WASTE<br/>REGULATORY ANALYSES</b><br><br><b>TECHNICAL OPERATING PROCEDURE</b>                                     | Proc. <u>TOP-012</u><br>Revision <u>2</u> Change <u>0</u><br>Page <u>6</u> of <u>6</u> |
| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM                                                  |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-94-02</u>                                                                                      |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>Unit A Lithologic Sample</u><br><u>from stratigraphic column of</u><br><u>Bishop tuff</u>         |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p65 #509</u>                                                                             |                                                                                        |
| AMOUNT OF SAMPLE <u>559.1 g</u>                                                                                                        | SIZE <u>13x10x5 cm</u>                                                                 |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>6/26/02</u>                                                                                      |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>11/5/02</u> BY <u>KKBradbury</u>                                                              |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                                                         |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)<br><u>Stratigraphic column site, Chalk Bluffs Rd,</u><br><u>Bishop, CA</u> |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Kelly K. Bradbury</u>                                                                             |                                                                                        |
| SUPPLIER                                                                                                                               |                                                                                        |
| OTHER <u>BT-94-XRD1</u>                                                                                                                |                                                                                        |
|                                                                                                                                        |                                                                                        |
|                                                                                                                                        |                                                                                        |
| CNWRA FORM TOP-004                                                                                                                     |                                                                                        |

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| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM                                      |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-95-02</u>                                                                          |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>Unit B lithologic sample</u><br><u>stratigraphic column</u>                           |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p65#509</u>                                                                  |                                                                                        |
| AMOUNT OF SAMPLE <u>311.5g</u>                                                                                             | SIZE                                                                                   |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>6/26/02</u>                                                                          |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>11/5/02</u> BY <u>KKBradley</u>                                                   |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                                             |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)<br><u>Strat. column, Chalk Bluffs Rd,</u><br><u>Bishop, CA</u> |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Kelly K. Bradley</u>                                                                  |                                                                                        |
| SUPPLIER                                                                                                                   |                                                                                        |
| OTHER <u>BT-95-XRD1</u> <u>Subsamples</u>                                                                                  |                                                                                        |
|                                                                                                                            |                                                                                        |
| CNWRA FORM TOP-004                                                                                                         |                                                                                        |

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| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM              |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-96-02</u>                                                  |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>Unit B/C - transitional</u>                                   |                                                                                        |
| <u>possible coding } unit, intensely fractured</u>                                                 |                                                                                        |
| <u>banding } darker and less welded? than A, B</u>                                                 |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>pls # 509</u>                                        |                                                                                        |
|                                                                                                    |                                                                                        |
| AMOUNT OF SAMPLE <u>653.1 g</u>                                                                    | SIZE <u>14x12x8 cm</u>                                                                 |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>6/26/02</u>                                                  |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>11/5/02</u>                                               | BY <u>KK Brabury</u>                                                                   |
|                                                                                                    |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                     |                                                                                        |
|                                                                                                    |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)                                        |                                                                                        |
| <u>Strat. column site, chalk bluffs rd,</u>                                                        |                                                                                        |
| <u>Bishop, CA</u>                                                                                  |                                                                                        |
|                                                                                                    |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Kelly K Brabury</u>                                           |                                                                                        |
|                                                                                                    |                                                                                        |
| SUPPLIER                                                                                           |                                                                                        |
| OTHER <u>BT-96-X121D1</u>                                                                          |                                                                                        |
|                                                                                                    |                                                                                        |
|                                                                                                    |                                                                                        |
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| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM                                                    |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-97-02</u>                                                                                        |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>Unit C lithology</u><br><u>transitional zone / less welded tuff,</u><br><u>Stratigraphic column</u> |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p 65 #509</u>                                                                              |                                                                                        |
|                                                                                                                                          |                                                                                        |
| AMOUNT OF SAMPLE <u>576.5 g</u>                                                                                                          | SIZE <u>12x10x10cm</u>                                                                 |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>6/26/02</u>                                                                                        |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>11/5/02</u>                                                                                     | BY <u>KK Bradbury</u>                                                                  |
|                                                                                                                                          |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                                                           |                                                                                        |
|                                                                                                                                          |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)                                                                              |                                                                                        |
| <u>Strat column, chalk bluffs rd,</u>                                                                                                    |                                                                                        |
| <u>Bishop, CA</u>                                                                                                                        |                                                                                        |
|                                                                                                                                          |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Kelly K. Bradbury</u>                                                                               |                                                                                        |
|                                                                                                                                          |                                                                                        |
| SUPPLIER                                                                                                                                 |                                                                                        |
| OTHER <u>BT-97-XRD1</u>                                                                                                                  |                                                                                        |
|                                                                                                                                          |                                                                                        |
|                                                                                                                                          |                                                                                        |
| CNWRA FORM TOP-004                                                                                                                       |                                                                                        |

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| <b>ENTER FOR NUCLEAR WASTE<br/>REGULATORY ANALYSES</b><br><br><b>TECHNICAL OPERATING PROCEDURE</b>                            | Proc. <u>TOP-012</u><br>Revision <u>2</u> Change <u>0</u><br>Page <u>6</u> of <u>6</u> |
| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM                                         |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-98-02</u>                                                                             |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>Densely welded tuff</u><br><u>of Bishop tuff - strat</u><br><u>column site</u>           |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>pl 5 #509</u>                                                                   |                                                                                        |
| AMOUNT OF SAMPLE <u>403.9g</u>                                                                                                | SIZE <u>13x6x4cm</u>                                                                   |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>6/26/02</u>                                                                             |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>11/5/02</u> BY <u>KK Bradley</u>                                                     |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                                                |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)<br><u>Strat column site, Chalk Bluffs Rd</u><br><u>Bishop, CA</u> |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Kelly K. Bradley</u>                                                                     |                                                                                        |
| SUPPLIER                                                                                                                      |                                                                                        |
| OTHER <u>BT-98-xrd1</u>                                                                                                       |                                                                                        |
|                                                                                                                               |                                                                                        |
| CNWRA FORM TOP-004                                                                                                            |                                                                                        |

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| <b>CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES</b><br><b>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM</b>                                                                    |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-99-02</u>                                                                                                                      |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>Sample between HWfr 2 and</u><br><u>HWfr 3, 2.5 m N of CCHW1 transect line</u><br><u>75-85 cm perpendicularly away from fault</u> |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p142 #1709</u>                                                                                                           |                                                                                        |
| AMOUNT OF SAMPLE <u>647.4g</u>                                                                                                                                         | SIZE <u>18x12x8cm</u>                                                                  |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>9/17/02</u>                                                                                                                      |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>11/5/02</u> BY <u>KKBradley</u>                                                                                               |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                                                                                         |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)<br><u>Chalk Cove, Bishop CA</u>                                                                            |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Kelly K Bradley</u>                                                                                                               |                                                                                        |
| SUPPLIER                                                                                                                                                               |                                                                                        |
| OTHER <u>BT-99-XRD1</u><br><u>BT-99-TS1</u> <u>Leptosed, ready for thin sectioning 2/13/07</u>                                                                         |                                                                                        |
| CNWRA FORM TOP-004                                                                                                                                                     |                                                                                        |

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| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM                                 |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-100-02</u>                                                                    |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>20cm S of 270cm station</u><br><u>on transect CCHW1 - in FeOx</u><br><u>zone</u> |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p142 #509</u>                                                           |                                                                                        |
| AMOUNT OF SAMPLE <u>516g</u>                                                                                          | SIZE <u>15x7.5x7cm</u>                                                                 |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>9/17/02</u>                                                                     |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>11/5/02</u>                                                                  | BY                                                                                     |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                                        |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)<br><u>Chalk Cove, Bishop, CA</u>                          |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Kelly K. Bradbury</u>                                                            |                                                                                        |
| SUPPLIER                                                                                                              |                                                                                        |
| OTHER <u>BT-100-XRD1</u><br><u>BT-100-TS1</u> → as of 2/13/03 sample is<br>epoxied and ready to send<br>for TS        |                                                                                        |
| CNWRA FORM TOP-004                                                                                                    |                                                                                        |

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| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM                                                |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-101-02</u>                                                                                   |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>Sample from near 580cm</u><br><u>13cm from mid pt of 580cm</u><br><u>and 15cm West of 580cm</u> |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p 143 #509</u>                                                                         |                                                                                        |
| AMOUNT OF SAMPLE <u>459.8g</u>                                                                                                       | SIZE <u>13x10x1cm</u>                                                                  |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>9/17/02</u>                                                                                    |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>11/5/02</u> BY <u>KCB</u>                                                                   |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USA</u>                                                                                       |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)<br><u>Chalk Cove, Bishop, CA</u>                                         |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Kelly K. Bradburg</u>                                                                           |                                                                                        |
| SUPPLIER                                                                                                                             |                                                                                        |
| OTHER <u>BT-101-XR101</u><br><u>BT-101-TS1 → epoxied and ready for thin</u><br><u>sectioning 2/13/03</u>                             |                                                                                        |
| CNWRA FORM TOP-004                                                                                                                   |                                                                                        |

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| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM              |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-102-02</u>                                                 |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>Footwall sample - 0.5m</u>                                    |                                                                                        |
| <u>N from station 65cm on</u>                                                                      |                                                                                        |
| <u>transect C2 - white bedded tuff</u>                                                             |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p143 #509</u>                                        |                                                                                        |
| AMOUNT OF SAMPLE <u>243.5g</u>                                                                     | SIZE <u>9.5 x 7 x 4.5cm</u>                                                            |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>9/17/02</u>                                                  |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>11/5/02</u> BY <u>KK Bradley</u>                          |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                     |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)                                        |                                                                                        |
| <u>Chalk Cove, Bishop, CA</u>                                                                      |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Kelly &amp; K Bradley</u>                                     |                                                                                        |
| SUPPLIER                                                                                           |                                                                                        |
| OTHER <u>BT-102 - X12D1</u> <u>Subsamples</u>                                                      |                                                                                        |
| <u>BT-102 - T31</u> <u>1 exposed / prepped - ready to send for thin sectioning</u>                 |                                                                                        |
| <u>2/14/03</u>                                                                                     |                                                                                        |
| CNWRA FORM TOP-004                                                                                 |                                                                                        |

11/5/02  
KKB

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| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM              |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-103-02</u>                                                 |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>Sample of fault core zone</u><br><u>of chalk cave fault</u>   |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p143 #509</u>                                        |                                                                                        |
| AMOUNT OF SAMPLE <u>1147.2g</u>                                                                    | SIZE <u>17x10x9cm</u>                                                                  |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>9/17/02</u>                                                  |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>11/5/02</u> BY <u>KKB</u>                                 |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                     |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)<br><u>Chalk cave, Bishop, CA</u>       |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Kelly K. Brackburn</u>                                        |                                                                                        |
| SUPPLIER <u>Subsamples:</u>                                                                        |                                                                                        |
| OTHER                                                                                              | <u>BT-103-XRD1</u> <u>BT-103-XRD2</u>                                                  |
|                                                                                                    | <u>BT-103-TS1 - <sup>exposed</sup> cut, ready for Thin Section final</u>               |
|                                                                                                    | <u>11 to strike</u> <u>2/14/03</u>                                                     |
| CNWRA FORM TOP-004                                                                                 | <u>BT-103-TS2 - 1 to strike</u>                                                        |

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CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES

SAMPLE CUSTODY/CONTROL LOG ENTRY FORM

SAMPLE IDENTIFICATION (Mandatory) BT-104a-02

DESCRIPTION OF SAMPLE (Mandatory) crucifix fault core  
gauge rns parallel to fault  
surface

REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY p147 #509

AMOUNT OF SAMPLE 179.4g SIZE 13x10x2.5cm

DATE OF SAMPLE RECEIPT (Mandatory) 9/17/02

DATE OF INITIAL LOG ENTRY (Mandatory) 11/5/02 BY KKB

SAMPLE STORAGE LOCATION (Mandatory) USU

COLLECTION SITE (Reference Maps or Field Notes As Required)

Crucifix Site, Chalk Bluff Rd  
Bishop, CA

PERSON(S) WHO COLLECTED SAMPLE(S) Kelly K Bradbury

SUPPLIER

OTHER BT-140a - XRD1

BT-104a-TS1 - 11 to strike epoxied, ready

BT-104a-TS2 - 1 to strike for thin section

CNWRA FORM TOP-004

2/14/03

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| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM              |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-105-02</u>                                                 |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>Fault core from crucifix fault</u>                            |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p147 #509</u>                                        |                                                                                        |
| AMOUNT OF SAMPLE <u>1050.9 g</u>                                                                   | SIZE <u>22 x 14 x 6</u>                                                                |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>9/17/02</u>                                                  |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>11/5/02</u> BY <u>KKB</u>                                 |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                     |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)<br><u>Crucifix site, Bishop, CA</u>    |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Kelly &amp; Bradburn</u>                                      |                                                                                        |
| SUPPLIER                                                                                           |                                                                                        |
| OTHER <u>BT-105-XRD1</u>                                                                           |                                                                                        |
| <u>BT-105-XRD2</u>                                                                                 |                                                                                        |
| CNWRA FORM TOP-004                                                                                 |                                                                                        |

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| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM              |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-106-02</u>                                                 |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>From CF2 transect</u>                                         |                                                                                        |
| <u>located @ 465-470cm station</u>                                                                 |                                                                                        |
| <u>25cm above tape - East wedge / xft surface</u>                                                  |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p149 #509</u>                                        |                                                                                        |
| AMOUNT OF SAMPLE <u>459.7g</u>                                                                     | SIZE <u>10x8x5cm</u>                                                                   |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>9/18/02</u>                                                  |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>11/5/02</u> BY <u>KK Bradbury</u>                         |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                     |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)                                        |                                                                                        |
| <u>Cnicifix Site, Bishop, CA</u>                                                                   |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Kelly K Bradbury</u>                                          |                                                                                        |
| SUPPLIER <u>Subsamples:</u>                                                                        |                                                                                        |
| OTHER <u>BT-106-XRD1 BT-106-XRD2</u>                                                               |                                                                                        |
| <u>BT-106-TS1 - epoxied, ready to send</u>                                                         |                                                                                        |
| <u>for thin section 2/14/03</u>                                                                    |                                                                                        |
| CNWRA FORM TOP-004                                                                                 |                                                                                        |

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| <b>ENTER FOR NUCLEAR WASTE<br/>REGULATORY ANALYSES</b><br><br><b>TECHNICAL OPERATING PROCEDURE</b>                                                                                                        | Proc. <u>TOP-012</u><br>Revision <u>2</u> Change <u>0</u><br>Page <u>6</u> of <u>6</u> |
| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM                                                                                                                     |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-107a-02</u>                                                                                                                                                       |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>fault core - crucifix</u><br><u>east most, hanging-wall side</u><br><u>near Cf3 permeability test sites</u> → 221cm                                                  |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p150 #509</u>                                                                                                                                               |                                                                                        |
| AMOUNT OF SAMPLE <u>82.2g</u>                                                                                                                                                                             | SIZE <u>8x4.5x3.5</u>                                                                  |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>9/18/02</u>                                                                                                                                                         |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>11/5/02</u> BY <u>VKB</u>                                                                                                                                        |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                                                                                                                            |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)<br><u>Crucifix Site, Bishop, CA</u>                                                                                                           |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Kelly K Bradbury</u>                                                                                                                                                 |                                                                                        |
| SUPPLIER                                                                                                                                                                                                  |                                                                                        |
| OTHER <u>BT-XRD1-107a</u>                                                                                                                                                                                 |                                                                                        |
| <u>BT-107a-XRD2</u>                                                                                                                                                                                       |                                                                                        |
| <u>BT-107a-TS1</u>                                                                                                                                                                                        |                                                                                        |
| CNWRA FORM TOP-004 <u>BT-107a-TS2</u> <div style="display: inline-block; vertical-align: middle; margin-left: 10px;">           epoxied, cut-ready<br/>           for Thin Section 2/14/03         </div> |                                                                                        |

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| <b>ENTER FOR NUCLEAR WASTE<br/>REGULATORY ANALYSES</b><br><br><b>TECHNICAL OPERATING PROCEDURE</b>                                       | Proc. <u>TOP-012</u><br>Revision <u>2</u> Change <u>0</u><br>Page <u>6</u> of <u>6</u> |
| <b>CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES</b><br><b>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM</b>                                      |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-107b-02</u>                                                                                      |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>fault core samples near</u><br><u>cf 3 perm. test site</u><br><u>Central core - near hole 205cm</u> |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p150#509</u>                                                                               |                                                                                        |
| AMOUNT OF SAMPLE <u>209.7 g</u>                                                                                                          | SIZE <u>4 x 2.5 in</u>                                                                 |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>9/18/02</u>                                                                                        | <u>(9.5 x 6.5 x 5cm)</u>                                                               |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>11/5/02</u>                                                                                     | BY <u>KKB</u>                                                                          |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                                                           |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)<br><u>Cruafix Site, Bishop, CA</u>                                           |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Kelly K Bradbury</u>                                                                                |                                                                                        |
| SUPPLIER                                                                                                                                 |                                                                                        |
| OTHER <u>BT-107b-XRD1</u>                                                                                                                |                                                                                        |
| <u>BT-107b-XRD2</u>                                                                                                                      |                                                                                        |
| <u>BT-107b-TS1 - 2/14/03 ready to</u>                                                                                                    |                                                                                        |
| <u>BT-107b-TS2 - send for TS</u>                                                                                                         |                                                                                        |
| CNWRA FORM TOP-004                                                                                                                       |                                                                                        |

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| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM                                                          |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-107C-02</u>                                                                                            |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>fault core samples</u><br><u>from cf 3 permeability</u><br><u>transect near 257cm - westmost, FW side</u> |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p 150 #509</u>                                                                                   |                                                                                        |
| AMOUNT OF SAMPLE <u>1139.1g</u>                                                                                                                | SIZE <u>16 x 11 x 9cm</u>                                                              |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>9/18/02</u>                                                                                              |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>11/5/02</u> BY <u>ICKB</u>                                                                            |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USM</u>                                                                                                 |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)<br><u>Cmcitix, Bishop, CA</u>                                                      |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Kelly K Bradbury</u>                                                                                      |                                                                                        |
| SUPPLIER                                                                                                                                       |                                                                                        |
| OTHER <u>BT-107C-XRD1</u>                                                                                                                      |                                                                                        |
| CNWRA FORM TOP-004                                                                                                                             |                                                                                        |

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| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM                                        |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-A1-02</u>                                                                            |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>Unit A stratigraphic column</u><br><u>unit w/ fracture surface</u><br><u>S2SW, 70NW</u> |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p128 #509</u>                                                                  |                                                                                        |
| AMOUNT OF SAMPLE <u>4.5 lbs</u> SIZE <u>21x15x11cm</u>                                                                       |                                                                                        |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>9/14/02</u>                                                                            |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>11/5/02</u> BY <u>KKB</u>                                                           |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                                               |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)<br><u>Strat column, chalk bluff rd,</u><br><u>Bishop, CA</u>     |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Kelly K Brackburg</u>                                                                   |                                                                                        |
| SUPPLIER                                                                                                                     |                                                                                        |
| OTHER <u>BT-A1-XRD1</u>                                                                                                      |                                                                                        |
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| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM                                                                                   |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-A2-02</u>                                                                                                                       |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>~46m from tape &amp; compass</u><br><u>map of stratigraphy - 1 to layering</u><br><u>near transition to B - less welded than A</u> |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p134 #509</u>                                                                                                             |                                                                                        |
| AMOUNT OF SAMPLE <u>474g</u>                                                                                                                                            | SIZE <u>10x12x5cm</u>                                                                  |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>9/14/02</u>                                                                                                                       |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>11/7/02</u>                                                                                                                    | BY <u>KKB</u>                                                                          |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                                                                                          |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)<br><u>Stratigraphic Site, Chalk Bluff rd,</u><br><u>Fish Slough Ward, Bishop, CA</u>                        |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Kelly Bradbury</u>                                                                                                                 |                                                                                        |
| SUPPLIER                                                                                                                                                                |                                                                                        |
| OTHER <u>BT-A2-XRDI</u>                                                                                                                                                 |                                                                                        |
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| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM                    |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-B-02</u>                                                         |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>Strat column unit B</u><br><u>~53m along tape &amp; compass map</u> |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p 175 #509</u>                                             |                                                                                        |
| AMOUNT OF SAMPLE <u>306.1g</u>                                                                           | SIZE <u>17x9x5cm</u>                                                                   |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>9/15/02</u>                                                        |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>11/7/02</u> BY <u>KICB</u>                                      |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                           |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)<br><u>Strat column site, Bishop, CA</u>      |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Dick Heermance</u>                                                  |                                                                                        |
| SUPPLIER                                                                                                 |                                                                                        |
| OTHER <u>BT-B-XRDI</u>                                                                                   |                                                                                        |
|                                                                                                          |                                                                                        |
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| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM              |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-BC-02</u>                                                  |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>transition zone between</u><br><u>units B &amp; C ~63m</u>    |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p 136 #509</u>                                       |                                                                                        |
| AMOUNT OF SAMPLE <u>1323.4g</u>                                                                    | SIZE <u>12 x 12 x 14cm</u>                                                             |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>9/15/02</u>                                                  |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>1/07/02</u> BY <u>KKB</u>                                 |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                     |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)<br><u>Strat column, Bishop, CA</u>     |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Kelly K. Bradbury</u>                                         |                                                                                        |
| SUPPLIER                                                                                           |                                                                                        |
| OTHER <u>BT-BC-XRD1</u>                                                                            |                                                                                        |
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| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM              |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-C-02</u>                                                   |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>@75m - welded tvff</u><br><u>Surface capping table lands</u>  |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p136</u>                                             |                                                                                        |
| AMOUNT OF SAMPLE <u>585.5g</u>                                                                     | SIZE <u>12 x 14 x 4cm</u>                                                              |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>9/15/02</u>                                                  |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>11/7/02</u> BY <u>KICB</u>                                |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USV</u>                                                     |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)<br><u>Strat column, Bishop, CA</u>     |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Dick Hearnance</u>                                            |                                                                                        |
| SUPPLIER                                                                                           |                                                                                        |
| OTHER <u>BT-C-XR ID 1</u>                                                                          |                                                                                        |
|                                                                                                    |                                                                                        |
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| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM              |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-C1a-02</u>                                                 |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>19.4g KKB 11/7/02</u>                                         |                                                                                        |
| <u>Hanging wall fault gouge</u><br><u>from small fault in strat column</u>                         |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p137 #509</u>                                        |                                                                                        |
| AMOUNT OF SAMPLE <u>19.4g</u>                                                                      | SIZE <u>7x3cm</u>                                                                      |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>9/15/02</u>                                                  |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>11/7/02</u> BY <u>KKB</u>                                 |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USJ</u>                                                     |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)                                        |                                                                                        |
| <u>Strat column site</u><br><u>Bishop, CA</u>                                                      |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Kelly K Bradley</u>                                           |                                                                                        |
| SUPPLIER                                                                                           |                                                                                        |
| OTHER <u>BT-C1a-XRD1</u>                                                                           |                                                                                        |
|                                                                                                    |                                                                                        |
|                                                                                                    |                                                                                        |
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| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM              |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-C1aa-02</u>                                                |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>hanging wall rock</u><br><u>w/ gneiss surface</u>             |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p137#509</u>                                         |                                                                                        |
| AMOUNT OF SAMPLE <u>247.8g</u>                                                                     | SIZE <u>10x10x6cm</u>                                                                  |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>9/15/02</u>                                                  |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>11/7/02</u> BY <u>KICB</u>                                |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                     |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)<br><u>Strat column, Bishop, CA</u>     |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Kelly K Brader</u>                                            |                                                                                        |
| SUPPLIER                                                                                           |                                                                                        |
| OTHER <u>BT-C1aa-XRD1</u>                                                                          |                                                                                        |
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| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM                            |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-C16-02</u>                                                               |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>fault gauge core</u><br><u>central - small fault</u><br><u>Strat column</u> |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p137 #509</u>                                                      |                                                                                        |
| AMOUNT OF SAMPLE <u>72.6g</u>                                                                                    | SIZE                                                                                   |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>9/15/02</u>                                                                |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>11/7/02</u>                                                             | BY <u>KICB</u>                                                                         |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                                   |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)<br><u>Strat column, Bishop, CA</u>                   |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Kelly K Bradbury</u>                                                        |                                                                                        |
| SUPPLIER                                                                                                         |                                                                                        |
| OTHER <u>BT-C16 - XRD 1</u>                                                                                      |                                                                                        |
|                                                                                                                  |                                                                                        |
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| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM                                |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-CIC-02</u>                                                                   |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>footwall fault surface</u><br><u>from small fault near</u><br><u>Strat site</u> |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p137 #509</u>                                                          |                                                                                        |
| AMOUNT OF SAMPLE <u>30.2g</u>                                                                                        | SIZE <u>6x4cm</u>                                                                      |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>9/15/02</u>                                                                    |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>11/7/02</u> BY <u>KKB</u>                                                   |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                                       |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)<br><u>Strat column, Bishop, CA</u>                       |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Kelly K Bradbury</u>                                                            |                                                                                        |
| SUPPLIER                                                                                                             |                                                                                        |
| OTHER <u>BT-CIC-XRD1</u>                                                                                             |                                                                                        |
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| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM              |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-CCCC-02</u>                                                |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>footwall rock + gneiss</u>                                    |                                                                                        |
| <u>Surface - small fault</u>                                                                       |                                                                                        |
| <u>near strat site</u>                                                                             |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>D137#509</u>                                         |                                                                                        |
| AMOUNT OF SAMPLE <u>182.2g</u>                                                                     | SIZE                                                                                   |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>9/15/02</u>                                                  |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>11/7/02</u> BY <u>KKB</u>                                 |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USV</u>                                                     |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)                                        |                                                                                        |
| <u>strat column, Bishop, CA</u>                                                                    |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S)                                                                  |                                                                                        |
| SUPPLIER                                                                                           |                                                                                        |
| OTHER <u>BT-CCCC-XRDI</u>                                                                          |                                                                                        |
|                                                                                                    |                                                                                        |
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| <b>ENTER FOR NUCLEAR WASTE<br/>REGULATORY ANALYSES</b><br><br><b>TECHNICAL OPERATING PROCEDURE</b>          | Proc. <u>TOP-012</u><br>Revision <u>2</u> Change <u>0</u><br>Page <u>6</u> of <u>6</u> |
| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM                       |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-C1d-02</u>                                                          |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>Footwall host rock -</u><br><u>unit C - from small</u><br><u>fault</u> |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p 137 # 509</u>                                               |                                                                                        |
| AMOUNT OF SAMPLE <u>176.4g</u>                                                                              | SIZE <u>7x5x6cm</u>                                                                    |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>9/15/02</u>                                                           |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>11/7/02</u> BY <u>ICCB</u>                                         |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                              |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)<br><u>Strat column site, Bishop, CA</u>         |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Kelly K Bradley</u>                                                    |                                                                                        |
| SUPPLIER                                                                                                    |                                                                                        |
| OTHER <u>BT-C1d-XRD1</u>                                                                                    |                                                                                        |
| CNWRA FORM TOP-004                                                                                          |                                                                                        |

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| <b>ENTER FOR NUCLEAR WASTE<br/>REGULATORY ANALYSES</b><br><br><b>TECHNICAL OPERATING PROCEDURE</b>                                         | Proc. <u>TOP-012</u><br>Revision <u>2</u> Change <u>0</u><br>Page <u>6</u> of <u>6</u> |
| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM                                                      |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-C1e-02</u>                                                                                         |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>hanging wall host rock</u><br><u>possibly unit B1C - small fault</u><br><u>near strat column site</u> |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p137 #509</u>                                                                                |                                                                                        |
| AMOUNT OF SAMPLE <u>315.1g</u> SIZE <u>13x9.5x4.5cm</u>                                                                                    |                                                                                        |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>9/15/02</u>                                                                                          |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>11/7/02</u> BY <u>KICB</u>                                                                        |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                                                             |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)<br><u>Stratigraphic column site</u><br><u>Bishop, CA</u>                       |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Kelly K Bradbury</u>                                                                                  |                                                                                        |
| SUPPLIER                                                                                                                                   |                                                                                        |
| OTHER <u>BT-C1e-XRD1</u>                                                                                                                   |                                                                                        |
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| <b>CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES</b><br><b>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM</b>                                              |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-CCHW1-65 [CCHW1-0cm → CCHW1580cm]</u>                                                                    |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>Loose grain size samples</u><br><u>from outer perimeter of CCHW1</u><br><u>permeability tract test hole</u> |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY                                                                                                       |                                                                                        |
| AMOUNT OF SAMPLE                                                                                                                                 | SIZE                                                                                   |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>9/16/02</u>                                                                                                |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>2/13/03</u> BY <u>KKBradbury</u>                                                                        |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                                                                   |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)                                                                                      |                                                                                        |
| <u>CCHW1 map, Chalk cave, Chalk Bluffs road</u><br><u>Bishop, CA</u>                                                                             |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Kelby Bradbury</u><br><u>Dick Heerman</u>                                                                   |                                                                                        |
| SUPPLIER                                                                                                                                         |                                                                                        |
| OTHER                                                                                                                                            |                                                                                        |
|                                                                                                                                                  |                                                                                        |
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| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM                                                                            |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>CC3-0cm through CC3-180cm</u>                                                                                               |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>Loose sampled gathered for</u><br><u>[Gr CC3-65-] grain size analysis along CC3</u><br><u>02 transect - 19 bags to take</u> |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p148 #509</u>                                                                                                      |                                                                                        |
| AMOUNT OF SAMPLE                                                                                                                                                 | SIZE                                                                                   |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>9/18/02</u>                                                                                                                |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>2/13/03</u> BY <u>KK Bradbury</u>                                                                                       |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                                                                                   |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)<br><u>Chalkcove, Chalk bluff road</u><br><u>Bishop, CA</u>                                           |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Kelly K. Bradbury</u><br><u>Dick Heermance</u>                                                                              |                                                                                        |
| SUPPLIER                                                                                                                                                         |                                                                                        |
| OTHER                                                                                                                                                            |                                                                                        |
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| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM                                                   |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-Cf2-65<sup>07</sup>(Cf2-0m → Cf1 1025cm)</u>                                                    |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>loose samples from permeability</u><br><u>test holes of Cf2 transect</u><br><u>Cf2 = lower bed</u> |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p146 #509</u>                                                                             |                                                                                        |
| AMOUNT OF SAMPLE <u>22 bags</u>                                                                                                         | SIZE                                                                                   |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>9/17/02</u>                                                                                       |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>2/13/03</u> BY <u>KKBradley</u>                                                                |                                                                                        |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                                                          |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)<br><u>Cmci'ix, Chalk bluffs, Bshgs, CA</u>                                  |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Kelly K. Bradley</u><br><u>Dick Heermance</u>                                                      |                                                                                        |
| SUPPLIER                                                                                                                                |                                                                                        |
| OTHER                                                                                                                                   |                                                                                        |
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| CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES<br>SAMPLE CUSTODY/CONTROL LOG ENTRY FORM                                               |                                                                                        |
| SAMPLE IDENTIFICATION (Mandatory) <u>BT-CFU-65-02 (cfu-25um - cfu1000um)</u>                                                        |                                                                                        |
| DESCRIPTION OF SAMPLE (Mandatory) <u>loose bag samples from test</u><br><u>site holes along permeability</u><br><u>transect CFI</u> |                                                                                        |
| REFERENCE TOP OR SCIENTIFIC NOTEBOOK ENTRY <u>p145 #509</u>                                                                         |                                                                                        |
| AMOUNT OF SAMPLE <u>22 sample bags</u>                                                                                              | SIZE                                                                                   |
| DATE OF SAMPLE RECEIPT (Mandatory) <u>9/17/02</u>                                                                                   |                                                                                        |
| DATE OF INITIAL LOG ENTRY (Mandatory) <u>2/13/03</u>                                                                                | BY <u>KKBradbury</u>                                                                   |
| SAMPLE STORAGE LOCATION (Mandatory) <u>USU</u>                                                                                      |                                                                                        |
| COLLECTION SITE (Reference Maps or Field Notes As Required)<br><u>Cucifix, Challico Bluff road, Bishop, CA</u>                      |                                                                                        |
| PERSON(S) WHO COLLECTED SAMPLE(S) <u>Kelly K Bradbury</u><br><u>Dick Heermance</u>                                                  |                                                                                        |
| SUPPLIER                                                                                                                            |                                                                                        |
| OTHER                                                                                                                               |                                                                                        |
|                                                                                                                                     |                                                                                        |
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