UTAH GEOLOGICAL SURVEY
a division of
Utah Department of Natural Resources

Explanation

—?— — — — ————	Contact; dashed where indistinct; queried where inferred; blue color indicates distinct marker bed
– – – – – – – – – –	Intra-unit bedding
— · —— · –	Base of A horizon, dashed where indistinct
– – ――	Eroded fault-scarp free face; dashed where indistinct
F2 – – ――	Fault; arrows indicate direction of relative movement; dashed where indistinct; fault label (e.g., F2) corresponds with text
● SL-R11 5.7 ± 0.8 ka	Charcoal extracted from bulk A-horizon sediment and submitted for radiocarbon (^{14}C) analysis; age is mean and 2σ range in thousands of calendar years before 1950.
● SL-R2 7.6 ± 0.1 ka	Charcoal sample for ^{14}C dating; age is mean and 2σ range in thousands of calendar years before 1950.
● SL-L6 7.1 ± 0.1 ka	Sample for luminescence dating; age is mean and 2σ range in thousands of years before 2012.
k	Infilled burrow (krotovina)
▲	Unit description location

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8
9
S3jA
S3iA
S3i
S3h1
S3g5
Bench
S3g4
S3f
S3d
S3c
S3b
S3bA
S3e
SL-R7
SL-R1
7.5 ± 0.2 ka
SL-R4
7.0 ± 0.2 ka
SL-L1
5.2 ± 0.3 ka
SLN-R3
7.2 ± 0.2
SL-R11
7.1 ± 0.1 ka
SL-R06
SL-R05
SL-L6
5.7 ± 0.8 ka
S3j
S3h2
S3g3
S3g2
S3g1
SLN-R8
S3a
S3aA
?
SL-L2
8.0 ± 1.5 ka
SL-R2
7.6 ± 0.1 ka
S1c?
SL-L3
7.8 ± 1.0 ka
SL-R20
4.4 ± 0.1 ka
SL-L7
>0.3 ka
SL-R19
3.5 ± 0.1 ka
SL-R18
4.1 ± 0.1 ka
SL-R15
0.7 ± 0.04 ka
SL-R16
2.4 ± 0.1 ka
SL-R17
2.3 ± 0.1 ka
SLN-R13
SL-R12
SL-R14
C1
C2
C3
C4
C5
C6
S3g
SS
F1
S2a
S2b
k
CA
CF2
SL-R28
S1d2
S1d1
S1b2
S1b1
S1c
S1a
F2
S2bA
FF
S2cA1
S2c
S2cA2
S1d
S1b
SL-R24
6.1 ± 0.1 ka
SL-R25
3.6 ± 0.1 ka
CF3
SL-R26
13.7 ± 0.2 ka
F3

South Wall of the Spring Lake Trench (Mirror Image)
horizontal and vertical distances in meters

A	Soil A horizon (e.g., N3aA, C1A)
SS	Sheared sediment

Scarp-Derived Colluvium

C1	Scarp colluvium (earthquake SL1)
C2	Scarp colluvium (earthquake SL2)
C3	Scarp colluvium (earthquake SL3)
C4	Scarp colluvium (earthquake SL4)
C5	Scarp colluvium (earthquake SL5)
C6	Scarp colluvium (earthquake SL6)
CF2	Footwall colluvial wedge (fault F1)
CF3	Footwall colluvial wedge (fault F3)

Post-Bonneville Alluvial-Fan Deposits

S3a-j	Stream and debris-flow deposits (hanging wall of fault F1)
S2a-c	Stream and debris-flow deposits (footwall of fault F1)

Lake Bonneville Sediments

S1d	Post-Bonneville debris flow
S1c	Post-Bonneville massive sand
S1c?	Post-Bonneville massive sand
S1b	Lake Bonneville silt and sand
S1a	Lake Bonneville sand and gravel

STRATIGRAPHIC AND STRUCTURAL RELATIONS IN THE SOUTH WALL OF THE SPRING LAKE TRENCH