Department of Energy
Yucca Mountain Site Characterization
Project Office
P. O. Box 98608
Las Vegas, NV 89193-8608

WBS 1.2.5.3
QA: N/A

DEC 2 0 1993

Robert R. Loux
Executive Director
Agency for Nuclear Projects
State of Nevada
Evergreen Center, Suite 252
1802 North Carson Street
Carson City, NV 89710

SECOND INSTALLMENT OF DATA REPORTED IN U.S. GEOLOGICAL SURVEY (USGS) MONTHLY REPORTS (SCP: N/A)

References: (1) Ltr, Loux to Gertz, dtd 8/31/93
(2) Ltr, Gertz to Loux, dtd 10/1/93

Enclosed is the second installment of information requested by the State of Nevada for data, data sets, and preliminary interpretations mentioned in the USGS monthly reports of ongoing work (Reference 1). The data noted by Y^5 in the table entitled "Data Request" are enclosed. The data tracking numbers associated with data enclosed with this letter are GS931008315215215.030, GS931008315215215.034, and GS931008315215215.035.

The data denoted by N^6 are scheduled to be sent to the USGS Local Records Center on January 31, 1994. Within 15 days of this date, data will be furnished to the U.S. Department of Energy (DOE) and within another 15 days, DOE will release the data to the state.

If you have any questions, please contact either Ardyth M. Simmons at (702) 794-7998 or Thomas W. Bjerstedt at (702) 794-7950.

Robert M. Nelson, Jr.
Acting Project Manager

RSED:AMS-1160

Enclosure:
Partial Transmittal of
Requested Data

cc w/encl:
A. B. Benson, HQ (RW-5.2) FORS
S. J. Brocoum, HQ (RW-22) FORS
L. J. Desell, HQ (RW-331) FORS
C. E. Einberg, HQ (RW-331) FORS
A. A. Boulton, SAIC, Denver, CO
B. E. Reilly, SAIC, Las Vegas, NV
P. W. McKinley, USGS, Denver, CO

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NUCLEAR WASTE PROJECT OFFICE

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YMP-5

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DATA REQUEST

(Summary)
Agency for Nuclear Projects, Nuclear Waste Project Office

Request Dated: August 31, 1993
Request Received: September 9, 1993

Item Number	Requested Data	Source	Data Included (Y/N)
	Strontium		
1	Location and analysis of carbonate-rich samples	[a] 01/93, p. 64	N [6]
2	Locations and alpha-spectrometry results from Nevares Spring tufa mound	[a] 10-11/93, p. 64	N [6]
3	Sr isotope data for VH-2 and elsewhere in Tertiary aquifer	[a] 08/92, p 94	Y
4	XRF mass spec. analyses and SR/SR ratios of VH-1	[a] 08/92, p. 94	Y
5	Sr/Sr ratios from Franklin Lake Playa	[a] 08/92, p. 94	Y
6	Sr concentrations for Nevares Spring tufa	[a] 08/92, p. 95	Y
7	Sr content and isotopic comp. of high-Si rhyolite samples from UE25A#1	[a] 09-92, p. 13	Y
8	Sr composition from Nevares Spring	[a] 09/92, p. 8	Y
9	Sr composition from Pyramid Lake	[a] 09/92, p. 89	N [1]
10	Sr isotopes for precip. sample from Yucca Crest	[a] 01/93, P. 63	Y
11	Sr/Sr and Rb/Sr rations of rhyolite in G-4	[a] 10-11/ 93(?), p. 16	Y
12	Sr/Sr ratios of precip. samples for 08/11/92, 03/92, and 02/92	[a] 10-11/ 93(?), p. 90	Y

ENCLOSURE

Item Number	Requested Data	Source	Data Included (Y/N)
13	Sr isotopic anal. of outcrop samples, Southern Yucca Mtn.	[b] 04/15/92	Y
14	Sr content and isotopic comp. from high-Si rhyolite from UE25a#1	[b] 10/16/92	Y
	Fluid Inclusion		
15	Results from fluid inclusion studies for USW - G-1 and G-2	[a] 01/93, p. 87	Y[5]
16	Results of fluid inclusion studies of calcite from USW G-2, GU-3, G-4, UE25UZ-16, A-4, A-5, A-7	[a] 01/93, p. 70	Y[5]
	Carbon and Oxygen		
17	^{13}C and $^{18}0$ values of calcite from site 106	[a] 07/92, p. 105	Y[5]
18	^{13}C and ^{18}O values from Site 199	[a] 07/92, p. 106	Y[5]
19	^{13}C and ^{18}O values from trenches CFS-E, CF-1, 2, and 8	[a] 07/92, p. 106	Y[5]
20	^{13}C and ^{18}O values from Tonopah RR in Ash Meadows	[a] 07/92, p. 106	Y[5]
21	^{13}C and ^{18}O values from Trench 14 calcites and calcrete	[a] 07/92, p. 106	Y[5]
22	^{13}C and ^{18}O values from Nevares Spring	[a] 07/92, p. 107	Y[5]
23	^{18}O results from Trench-14	[a] 08/92, p. 100	Y[5]
24	^{18}O values of opal/chalcedony from drill core	[a] 08/92, p. 100	Y[5]
25	^{14}C ages of calcites from USW G-1 and other drill holes.	[a] 01/93, p. 71	Y[5]
26	^{13}C and ^{18}O values from Site 106 and Wahmonie	[a] 10-11/93 (?), p. 92	Y[5]

Item Number	Requested Data	Source	Data Included (Y/N)
27	^{13}C and ^{18}O values from Travertine, Nevares, and Grapevine springs	[a] 10-11/ 93(?), p. 92	Y[5]
28	^{13}C and ^{18}O values from Busted Butte, Eleanna Trench, Trenches 1 and 16, Yucca Crest	[a] 10-11/ 93(?), p. 92	Y[5]
29	^{13}C and ^{18}O values from Site 106 and Wahmonie	[a] 12/93, p. 68	Y[5]
30	^{13}C and ^{18}O values from Nevares and Grapevine springs	[a] 12/93, p. 68	Y[5]
31	^{13}C and ^{18}O values from UE25-RF-9	a 12/93, p. 68	Y[5]
32	^{13}C and ^{18}O values from Yucca Crest	a 12/93, p 68	Y[5]
33	^{13}C and ^{18}O values from Sites 106 and 199, Trenches CFS-E, CF-1, 2, and 8, Tonopah RR, Trench 14, and Nevares Spring	[b] 08/11/92	Y[5]
34	^{13}C and ^{18}O values from USW G-1 and 2, UE-25 A-5, RF-3, and USW GU-3	[b] 03/10/93	Y[5]
	Other Data		
35	Nd/Nd values of calcite fracture-fillings from USW G-2, 3, and 4	[a] 01/92, p. 83	N[2]
36	Results of XRF trace-element analyses	[a] 10-11/93, p. 15	N[3]
37	Location and results of isotope analysis on samples from Raven Canyon and results from JF-3	[a] 10-11/93, p. 15	Y
38	Results from tufa mound samples at Nevares Spring	[a] 0-11/93, p. 89	N[6]
39	Chemistry results from VH-2	[a] 10-11/93, p. 94	Y
40	Vapor-phase inclusion results from USW G-1	[a] 10-11/93, p. 93	Y[5]
41	Analyses of faunal samples from Modern Springs	[b] 03/11/92, p. 6	N[4]

Item Number	Requested Data	Source	Data Included (Y/N)
42	Isotopic composition of carbonate from Site 106, Wahmonie, Nevares, and Grapevine springs, UE25 RF-9, UEA-6, Yucca Crest, and USW G-4	[b] 01/13/93	Y [12]

[a] USGS, YMP, Monthly Highlights and Status Report
[b] Letters to Carl Gertz from U.S. Department of Interior

[1] Unable to respond to this request. This study by Larry Benson (USGS-WRD, Boulder, CO) was funded from a Geologic Division account.
[2] No data available. Samples were originally obtained from LANL and had been irradiated for neutron activation analysis. The neodymium isotopic compositions had been affected by the irradiation, and the analyses were determined to be invalid.
[3] Request cannot be met - unable to specifically identify the data wanted from the wording in the request.
[4] Octracodes were observed in the samples as described on page 11 of the data request, however no identification of species was made.
[5] Available December 7, 1993
[6] Available February 15, 1994

HD #	Drill Hole	SPC #	Depth (ft)	Tcrush (C)	Thomog (C)
HD-318	G1	00016017	425.5	95,90,-90	
HD-319	G1	00016018	491.8	-60,60	
HD-322	G1	00016021	669.2	-100,99.5,76,92	81
HD-325	G1	00016024	959.8	94,-82	
HD-326	G1	00016025	1029.0	82,82,82,-82	
HD-338	G1	00016037	3588.5		99,103.114
HD-343	G1	00016042	3867.3		74,86
HD-348	G1	00016047	5348.6		87,96,92,91
HD-359	G2	00016060	858.2		57,59
HD-368	G2	00016068	1137.6		81>72
HD-369	G2	00016069	1169.8		104,103
HD-274	G2	00004688	1562.2	94,92	
HD-579	G2	00016083	4162.8		78,-80,82,80,79
HD-582	G2	00016086	4912.8		org(?)-240-260
HD-583	G2	00016087	5107.3		215,216,242-245

Request numbers 15 and 16 for fluid inclusion are a part of TDIF.

CALCITE/SILICA - CARBONATE STABLE ISOTOPES

Accept?	HD #	Locality	Depth : m	Extn Log #	d13C pdb	d18O smow	SPC #
☒ Yes	HD-150-1	Site 106		359-C-7	-3.6	22.7	00002931
☒ Yes	HD-150-1A	Site 106		2C1	-3.8	22.5	00002931
☒ Yes	HD-151-2	Site 106		359-C-8	-3.9	22.7	00002932
☒ Yes	HD-151-2A	Site 106		2C2	-4.1	22.5	00002932
☒ Yes	HD-151-3A	Site 106		2C3	-4.1	22.1	00002932
☒ Yes	HD-153-1	Site 106		359-C-9	-4.7	21.4	00002934
☒ Yes	HD-153-1A	Site 106		2C5	-5.1	20.4	00002934
☒ Yes	HD-153-1JFW	Site 106		394-C-9	-4.9	20.8	00002934
☒ Yes	HD-153-1RJM	Site 106		395-C-1	-5.2	20.4	00002934
☒ Yes	HD-153-1RJM	Site 106		13C-10	-5.1	20.2	00002934
☒ Yes	HD-153-1RJM	Site 106		17C-9	-5.0	20.8	00002934
☒ Yes	HD-155-1	Site 106		359-C-10	-4.2	22.5	00002936
☒ Yes	HD-155-1A	Site 106		2C6	-4.3	22.1	00002936
☒ Yes	HD-156-1A	Site 106		2C7	-4.5	21.7	00002937
☒ Yes	HD-156-2A	Site 106		2C8	-4.6	21.8	00002937
☒ Yes	HD-159-1	Site 106		360-C-1	-3.7	23.9	00002940
☒ Yes	HD-159A	Site 106		2C10	-3.8	23.5	00002940
☒ Yes	HD-160-1	Site 106		360-C-2	-4.1	23.5	00002941
☒ Yes	HD-160A	Site 106		3C1	-4.3	23.2	00002941
☒ Yes	HD-161A	Site 106		3C2	-5.6	30.7	00002942
☒ Yes	HD-162-1	Site 106		360-C-4	-4.4	24.3	00002943
☒ Yes	HD-162-1JFW	Site 106		394-C-7	-4.6	23.8	00002943
☒ Yes	HD-162-1RJM	Site 106		394-C-8	-4.6	24.1	00002943
☒ Yes	HD-163-1	Site 106		360-C-5	-3.8	22.1	00002944
☒ Yes	HD-163A	Site 106		3C5	-4.0	22.2	00002944

Request numbers 17, 26, 33 and 42.

C-13 and O-18 values of calcite from site 106.

CALCITE/SILICA - CARBONATE STABLE ISOTOPES

Accept?	HD #	Locality	Depth : m	Extn Log #	d13C pdb	d18O smow	SPC #
☒ Yes	HD-164-2	Site 199		360-C-6	-2.8	18.9	00002945
☒ Yes	HD-164-2A	Site 199		3C6	-2.8	18.8	00002945
☒ Yes	HD-166-1	Site 199		360-C-7	-1.3	20.5	00002947
☒ Yes	HD-166-3A	Site 199		3C7	-1.0	20.4	00002947
☒ Yes	HD-167A	Site 199		3C8	-2.1	20.1	00002947
☒ Yes	HD-168-1A	Site 199		3C9	-1.5	21.5	00002949
☒ Yes	HD-169-1	Site 199		360-C-8	-1.1	21.3	00002950
☒ Yes	HD-169-1A	Site 199		3C10	-1.0	21.4	00002950

Request number 18 and 33.

C-13 and O-18 data from site 199.

CALCITE/SILICA - CARBONATE STABLE ISOTOPES

Accept?	HD #	Locality	Depth : m	Extn Log #	d13C pdb	d18O smow	SPC #
☒ Yes	HD-171A	Trench CFS-E		4C9	-3.7	19.6	00002952

Request number 19 and 33.

CALCITE/SILICA - CARBONATE STABLE ISOTOPES

Accept?	HD #	Locality	Depth : m	Extn Log #	d13C pdb	d18O smow	SPC #
☒ Yes	HD-195-1	Trench CF1		6C10	-5.5	20.1	00002981
☒ Yes	HD-196-1	Trench CF1		7C1	-3.9	20.8	00002982
☒ Yes	HD-197-2	Trench CF1		7C2	-5.0	19.9	00002983
☒ Yes	HD-198-1	Trench CF1		7C3	-4.7	20.6	00002984
☒ Yes	HD-199-1	Trench CF1		7C4	-4.4	21.6	00002985
☒ Yes	HD-201A	Trench CF1		7C5	-4.1	21.3	00002987
☒ Yes	HD-202A	Trench CF1		7C7	-3.6	21.5	00002988

Request number 19 and 33.

CALCITE/SILICA - CARBONATE STABLE ISOTOPES

Accept?	HD #	Locality	Depth : m	Extn Log #	d13C pdb	d18O smow	SPC #
☒ Yes	HD-209-1A	Trench CF2		7C9	-5.3	23.0	00002995

Request number 19 and 33.

CALCITE/SILICA - CARBONATE STABLE ISOTOPES

Accept?	HD #	Locality	Depth : m	Extn Log #	d13C pdb	d18O smow	SPC #
☒ Yes	HD-181-1A1	Trench 8		5C7	-5.5	19.3	00002967
☒ Yes	HD-181-2A1	Trench 8		5C8	-5.7	19.2	00002967
☒ Yes	HD-181-3A1	Trench 8		5C9	-5.3	19.4	00002967
☒ Yes	HD-181-4A1	Trench 8		5C10	-5.6	19.2	00002967
☒ Yes	HD-181-6A1	Trench 8		6C2	-6.0	21.8	00002967
☒ Yes	HD-184-1	Trench 8		6C3	-5.8	21.0	00002[illegible]
☒ Yes	HD-186-1	Trench 8		6C5	-5.5	21.8	00002972
☒ Yes	HD-189A	Trench 8		6C7	-5.9	19.4	00002975
☒ Yes	HD-190A	Trench 8		6C8	-6.2	19.3	00002976
☒ Yes	HD-191A	Trench 8		6C9	-6.3	19.8	00002977

Request number 19 and 33.

CALCITE/SILICA - CARBONATE STABLE ISOTOPES

Accept?	HD #	Locality	Depth : m	Extn Log #	d13C pdb	d18O smow	SPC #
☒ Yes	HD-175-2	Tonopah Railroad		5C1	-0.9	16.7	00002961
☒ Yes	HD-176-2A	Tonopah Railroad		5C2	0.3	22.2	00002962
☒ Yes	HD-177A	Tonopah Railroad		5C3	-0.9	16.3	00002963
☒ Yes	HD-178A	Tonopah Railroad		5C4	-1.1	17.5	00002964
☒ Yes	HD-179A	Tonopah Railroad		5C5	-0.7	15.7	00002965

Request number 20 and 33.

CALCITE/SILICA - CARBONATE STABLE ISOTOPES

Accept?	HD #	Locality	Depth : m	Extn Log #	d13C pdb	d18O smow	SPC #
☒ Yes	HD-1	Trench 14		283-C-8	-6.7	20.8	00003618
☒ Yes	HD-1	Trench 14		320-C-1	-6.2	21.1	00003618
☒ Yes	HD-1	Trench 14		321-C-1	-6.1	21.2	00003618
☒ Yes	HD-10	Trench 14		284-C-2	-5.6	19.7	00003626
☒ Yes	HD-10	Trench 14		321-C-5	-5.6	19.6	00003626
☒ Yes	HD-11	Trench 14		321-C-6	-5.9	20.4	00003627
☒ Yes	HD-12	Trench 14		321-C-7	-6.0	20.2	00003628
☒ Yes	HD-15-3-2	Trench 14		1C3	-5.3	19.5	00003695
☒ Yes	HD-15-3-3	Trench 14		1C4	-4.5	20.3	00003695
☒ Yes	HD-15-3-4	Trench 14		1C5	-6.4	19.5	00003695
☒ Yes	HD-2	Trench 14		283-C-9	-6.9	20.5	00003617
☒ Yes	HD-2	Trench 14		286-C-4	-6.9	20.3	00003617
☒ Yes	HD-2	Trench 14		320-C-2	-6.9	20.3	00003017
☒ Yes	HD-20-1	Trench 14		285-C-3	-7.6	20.0	00003698
☒ Yes	HD-20-1	Trench 14		322-C-4	-7.5	20.2	00003698
☒ Yes	HD-20-2	Trench 14		285-C-2	-6.4	21.2	00003698
☒ Yes	HD-22-1	Trench 14		285-C-1	-6.9	19.8	00003634
☒ Yes	HD-22-3	Trench 14		284-C-9	-6.1	19.9	00003634
☒ Yes	HD-22-4	Trench 14		284-C-10	-7.1	19.5	00003634
☒ Yes	HD-22-4	Trench 14		322-C-5	-7.1	19.6	00003634
☒ Yes	HD-23-1A	Trench 14		1C6	-5.3	20.3	00003635
☒ Yes	HD-24-1A	Trench 14		1C7	-5.5	20.3	00003636
☒ Yes	HD-25-1A	Trench 14		1C8	-5.6	20.9	00003637
☒ Yes	HD-26-1A	Trench 14		1C9	-5.6	20.4	00003638
☒ Yes	HD-27-1A	Trench 14		1C10	-5.9	19.6	00003639
☒ Yes	HD-28-2	Trench 14		285-C-6	-6.0	19.5	00003640
☒ Yes	HD-3	Trench 14		320-C-3	-6.1	20.6	00003619
☒ Yes	HD-31-1	Trench 14		285-C-7	-6.5	19.9	00003643
☒ Yes	HD-31-2	Trench 14		286-C-6	-6.1	20.4	00003643
☒ Yes	HD-39-2	Trench 14		285-C-8	-6.6	20.4	00003649
☒ Yes	HD-4	Trench 14		322-C-1	-6.1	19.9	00003620
☒ Yes	HD-41-1-A	Trench 14		287-C-1	-7.4	19.7	00003650
☒ Yes	HD-41-1-B	Trench 14		287-C-3	-7.2	20.0	00003650
☒ Yes	HD-42-10	Trench 14		282-C-3	-6.1	20.3	00003651
☒ Yes	HD-42-10	Trench 14		284-C-3	-6.1	20.6	00003651
☒ Yes	HD-42-10	Trench 14		286-C-5	-6.1	20.5	00003651
☒ Yes	HD-42-11	Trench 14		284-C-4	-6.7	20.3	00003651
☒ Yes	HD-42-12	Trench 14		284-C-5	-7.1	20.0	00003651
☒ Yes	HD-42-13	Trench 14		283-C-1	-7.0	19.7	00003651
☒ Yes	HD-42-13	Trench 14		284-C-6	-7.0	19.9	00003651
☒ Yes	HD-42-14	Trench 14		282-C-9	-6.1	20.5	00003651
☒ Yes	HD-42-15	Trench 14		283-C-6	-6.5	20.5	00003651
☒ Yes	HD-42-16	Trench 14		284-C-7	-6.5	20.7	00003651

CALCITE/SILICA - CARBONATE STABLE ISOTOPES

Accept?	HD #	Locality	Depth : m	Extn Log #	d13C pdb	d18O smow	SPC #
☒ Yes	HD-5	Trench 14		283-C-3	-5.5	20.7	00003621
☒ Yes	HD-54-1	Trench 14a		286-C-7	-6.9	21.4	00003659
☒ Yes	HD-54-1	Trench 14a		322-C-6	-6.9	21.5	00003659
☒ Yes	HD-54-3	Trench 14a		286-C-1	-7.1	20.3	00003659
☒ Yes	HD-54-5	Trench 14a		283-C-4	-6.4	21.1	00003659
☒ Yes	HD-6	Trench 14		283-C-10	-5.[illegible]	19.8	00003622
☒ Yes	HD-7	Trench 14		321-C-2	-5.8	19.8	00003623
☒ Yes	HD-8	Trench 14		321-C-3	-5.6	19.8	00003624
☒ Yes	HD-9	Trench 14		282-C-1	-5.9	20.1	00003625
☒ Yes	HD-9	Trench 14		284-C-1	-5.9	20.4	00003625
☒ Yes	HD-9	Trench 14		321-C-4	-5.9	20.3	00003625
☒ Yes	HD-963-03A	Trench 14c		119C-7	-6.4	20.3	00005405
☒ Yes	HD-963-03B	Trench 14c		119C-8	-5.4	20.1	00005405
☒ Yes	HD-963-04A	Trench 14c		119C-10	-6.2	20.4	00005406
☒ Yes	HD-963-04C	Trench 14c		120C-1	-5.9	19.2	00005406
☒ Yes	HD-963-05A	Trench 14c		120C-3	-5.7	20.1	00005407
☒ Yes	HD-963-06A	Trench 14c		120C-5	-6.6	20.3	00005408
☒ Yes	HD-963-07A	Trench 14c		120C-6	-6.5	19.6	00005409
☒ Yes	HD-963-08A	Trench 14c		120C-7	-6.9	19.9	00005410
☒ Yes	HD-963-08B	Trench 14c		121C-1	-6.3	19.4	00005410
☒ Yes	HD-963-09A	Trench 14c		121C-2	-6.3	20.8	00005411
☒ Yes	HD-963-09B	Trench 14c		121C-3	-6.4	20.7	00005411
☒ Yes	HD-963-10A	Trench 14c		121C-5	-6.7	20.3	00005412
☒ Yes	HD-963-11A	Trench 14c		121C-6	-6.9	19.7	00005413
☒ Yes	HD-963-15A	Trench 14c		122C-1	-5.4	20.5	00005417
☒ Yes	HD-963-16A	Trench 14c		122C-2	-6.3	20.2	00005418
☒ Yes	HD-963-17A	Trench 14c		122C-3	-5.8	19.6	00005419
☒ Yes	HD-963-18A	Trench 14c		122C-4	-5.8	19.6	00005551
☒ Yes	HD-963-19A	Trench 14c		122C-5	-6.1	20.5	00005552
☒ Yes	HD-963-20A	Trench 14c		123C-3	-5.7	20.5	00005553

Request numbers 21 and 33.

CALCITE/SILICA - CARBONATE STABLE ISOTOPES

Accept?	HD #	Locality	Depth : m	Extra Log #	d13C pdb	d18O smow	SPC #
☒ Yes	HD-494-A	Nevares Spring		17C-5	-1.0	25.1	00003730
☒ Yes	HD-495A	Nevares Spring		7C10	-2.5	15.4	00003731
☒ Yes	HD-496-A	Nevares Spring		18C-4	-2.5	15.6	00003732
☒ Yes	HD-496-A	Nevares Spring		18C-8	-2.1	15.6	00003732
☒ Yes	HD-499-A	Nevares Spring		18C-9	-1.5	17.6	00003735
☒ Yes	HD-500-A	Nevares Spring		19C-1	-1.3	18.9	00003736
☒ Yes	HD-501-A	Nevares Spring		19C-2	-1.6	17.0	00003737
☒ Yes	HD-502-A	Nevares Spring		19C-3	-1.9	15.8	00003738
☒ Yes	HD-502A	Nevares Spring		21C-10	-1.9	15.9	00003738
☒ Yes	HD-503-A	Nevares Spring		19C-4	-1.4	15.3	00003739
☒ Yes	HD-503-A	Nevares Spring		19C-5	-1.4	15.3	00003739

Request number 22, 27, 33 and 42.

Sample #	Locality	SPC #	Depth (ft)	Yield (umole/mg)	d18O smow
HD-306C	UE-25 a#1	00016005	253	18.51	18.60
HD-351B	USW G-2	00016051	92.2	16.80	26.60
HD-355A	USW G-2	00016055	236.7	16.46	20.70
HD-355A	USW G-2	00016055	236.7	16.92	20.50
HD-356A	USW G-2	00016056	240.7	17.22	21.70
HD-358A	USW G-2	00016058	257.8	17.15	24.10
HD-362A	USW G-2	00016062	280.2	17.10	21.20
HD-929A	UE-25 A-5	00019109	92.2	17.16	23.30
HD-926A	UE-25 A-5	00019106	85.2	16.65	21.90
HD-941A	Beatty	00005451		16.45	24.60
HD-700A	USW G-4	00005542	74.2	17.10	24.10

Request number 24.

14C YMP ages

HD #	Drill Hole	SPC #	Depth (ft)	LLNL #	GRPT #	14C Age	Age error	Fm	Fm error	mg of Carbor
HD-325c	G1	00016024	579.4	CAMS-4056	219	39,970	1,940	0.0069	0.0017	0.51
HD-674d	G4	00004866	352.4	CAMS-4677	292	41,950	950	0.0054	0.0006	0.77
HD-388a	GU3	00016108	204.9	CAMS-4678	293	33,360	360	0.0157	0.0007	0.46
HD-359a	G2	00016060	858.2	CAMS-4679	295	45,260	1850	0.0036	0.0008	0.88
HD-322c	G1	00016021	669.2	CAMS-4925	327	20,910	90	0.0740	0.0007	0.50
HD-676a	G4	00004864	554	CAMS-4926	328	>54,000		0.0002	0.0005	0.79
HD-385a	GU3	00016105	149.6	CAMS-4927	329	37,390	470	0.0095	0.0006	0.55
HD-320c	G1	00016019	579.4	CAMS-4928	330	>51,000		0.0008	0.0005	0.88
HD-351a	G2	00016051	302.5	CAMS-4929	333	43,500	970	0.0044	0.0005	0.85
HD-272a	G2	00004686	1448	CAMS-4930	334	39,510	610	0.0073	0.0005	0.92
HD-702a	G4	00005540	259.4	CAMS-4931	336	38,950	580	0.0078	0.0006	0.90
HD-328b	G1	00016027	1134.1	CAMS-4932	337	40,300	660	0.0066	0.0005	0.76
HD-383a	GU3	00016103	47.7	CAMS-4933	338	40,260	680	0.0067	0.0006	0.67
HD-352a	G2	00016052	314.5	CAMS-4934	340	>51,000		0.0008	0.0005	0.75
Harding				CAMS-4689	273	49,290	380	0.0022	0.0001	1.03
Harding				CAMS-4913	331	55,870	1550	0.0010	0.0002	0.91
Harding				CAMS-4690	274	48,330	460	0.0024	0.0001	0.86
Harding				CAMS-5341	401	54,600	880	0.0011	0.0001	0.85
Harding				CAMS-4914	332	50,090	590	0.0020	0.0001	0.78
Harding				CAMS-4057	222	46,520	3280	0.0031	0.0012	0.63
Harding				CAMS-4686	294	48,190	470	0.0025	0.0001	0.61
Harding				CAMS-4688	291	45,750	390	0.0034	0.0002	0.60
Harding				CAMS-4687	290	48,780	500	0.0023	0.0001	0.59
Harding				CAMS-5340	400	49,450	1120	0.0021	0.0003	0.47
Harding				CAMS-5343	406	44,500	2700	0.0039	0.0013	0.26
Harding				CAMS-5342	402	30,280	580	0.0231	0.0017	0.08

Request number 25

CALCITE/SILICA - CARBONATE STABLE ISOTOPES

Accept?	HD #	Locality	Depth : m	Extn Log #	d13C pdb	d18O smow	SPC #
☒ Yes	HD-443-4-A	Wahmonie		13C-2	-5.0	18.1	00001981
☒ Yes	HD-443-5-A	Wahmonie		13C-3	-4.8	23.6	00001981

Request number 26.

Site 106 data can be found under request number 17.

CALCITE/SILICA - CARBONATE STABLE ISOTOPES

Accept?	HD #	Locality	Depth : m	Extn Log #	d13C pdb	d18O smow	SPC #
☒ Yes	HD-505-1	Grapevine Spring		19C-7	0.4	15.5	00003741
☒ Yes	HD-505-2	Grapevine Spring		19C-8	0.5	14.7	00003741
☒ Yes	HD-505-3	Grapevine Spring		19C-9	0.3	13.9	00003741
☒ Yes	HD-505-3	Grapevine Spring		19C-10	0.3	13.7	00003741
☒ Yes	HD-505-3	Grapevine Spring		22C-1	0.2	13.6	00003741
☒ Yes	HD-505-4	Grapevine Spring		20C-1	0.0	14.1	00003741
☒ Yes	HD-505-5	Grapevine Spring		20C-2	0.0	14.0	00003741
☒ Yes	HD-505-5	Grapevine Spring		43C-3	0.1	14.1	00003741
☒ Yes	HD-506-1	Grapevine Spring		20C-3	-0.2	15.9	00003742
☒ Yes	HD-506-1	Grapevine Spring		43C-4	-0.2	16.1	00003742
☒ Yes	HD-506-2	Grapevine Spring		20C-4	-0.7	16.0	00003742
☒ Yes	HD-507-1-A	Grapevine Spring		20C-5	-0.1	17.1	00003743
☒ Yes	HD-507-1-A	Grapevine Spring		22C-3	-0.1	17.2	00003743
☒ Yes	HD-507-1-A	Grapevine Spring		43C-5	-0.1	17.2	00003743
☒ Yes	HD-507-1-B	Grapevine Spring		22C-4	-0.5	17.1	00003743
☒ Yes	HD-507-2-C	Grapevine Spring		20C-8	0.1	16.6	00003743
☒ Yes	HD-507-2-C	Grapevine Spring		20C-9	0.1	16.5	00003743
☒ Yes	HD-507-3-D	Grapevine Spring		21C-1	0.7	16.9	00003743
☒ Yes	HD-507-3-D	Grapevine Spring		22C-5	0.7	16.9	00003743
☒ Yes	HD-507-3-D	Grapevine Spring		43C-6	0.7	16.8	00003743
☒ Yes	HD-507-3-E	Grapevine Spring		21C-2	0.2	14.6	00003743
☒ Yes	HD-507-4-F	Grapevine Spring		21C-3	-0.6	15.5	00003743
☒ Yes	HD-507-4-G	Grapevine Spring		21C-4	-0.1	14.2	00003743
☒ Yes	HD-508-1	Grapevine Spring		21C-5	0.1	13.8	00003744
☒ Yes	HD-508-1	Grapevine Spring		22C-6	0.1	14.3	00003744
☒ Yes	HD-508-2	Grapevine Spring		21C-6	-0.1	15.8	00003744
☒ Yes	HD-508-2	Grapevine Spring		20C-7	-0.1	15.7	00003744
☒ Yes	HD-508-2	Grapevine Spring		43C-9	0.0	16.0	00003744
☒ Yes	HD-510-1	Grapevine Spring		22C-7	-0.7	17.6	00003746
☒ Yes	HD-510-2	Grapevine Spring		22C-8	-4.5	18.9	00003746
☒ Yes	HD-510-3	Grapevine Spring		22C-9	-3.6	18.4	00003746
☒ Yes	HD-510-4	Grapevine Spring		22C-10	-3.4	18.6	00003746
☒ Yes	HD-510-5	Grapevine Spring		23C-1	-4.4	17.8	00003746
☒ Yes	HD-510-5	Grapevine Spring		45C-7	4.4	17.9	00003746
☒ Yes	HD-511	Grapevine Spring		43C-10	-0.5	18.8	00003747
☒ Yes	HD-511-A	Grapevine Spring		23C-2	-0.6	18.7	00003747

Request number 27.

Nevares Spring data is listed with request number 22.

CALCITE/SILICA - CARBONATE STABLE ISOTOPES

Accept?	HD #	Locality	Depth : m	Extra Log #	d13C pdb	d18O smow	SPC #
☒ Yes	HD-483-1-A	Travertine Point		17C-1	0.2	15.0	00003719
☒ Yes	HD-483-A	Travertine Point		16C-10	0.2	15.7	00003719
☒ Yes	HD-484-A	Travertine Point		17C-2	0.5	16.6	00003720
☒ Yes	HD-485-A	Travertine Point		17C-3	1.3	15.4	00003721

Request number 27.

Nevares Spring data is listed with request number 22.

CALCITE/SILICA - CARBONATE STABLE ISOTOPES

Accept?	HD #	Locality	Depth : m	Extn Log #	d13C pdb	d18O smow	SPC #
☒ Yes	HD-444-A	Eleanna Trench		13C-4	-6.1	18.7	00001982
☒ Yes	HD-445-A	Eleanna Trench		13C-5	-4.8	19.5	00001983

Request number 28 data are listed on next 6 pages.

CALCITE/SILICA - CARBONATE STABLE ISOTOPES

Accept?	HD #	Locality	Depth : m	Extn Log #	d13C pdb	d18O smow	SPC #
☒ Yes	HD-1178A	Busted Butte		114C-7	-3.8	24.1	00005184
☒ Yes	HD-1179A	Busted Butte		114C-8	-3.7	20.4	00005183
☒ Yes	HD-1450A	Busted Butte		117C-2	-5.4	19.1	00500387
☒ Yes	HD-1450B	Busted Butte		117C-3	-5.8	18.5	00500387
☒ Yes	HD-1450C	Busted Butte		117C-4	-5.8	18.4	00500387
☒ Yes	HD-1454-LA	Busted Butte		117C-9	-5.3	20.0	00500391
☒ Yes	HD-1454-LB	Busted Butte		117C-10	-5.7	21.5	00500391
☒ Yes	HD-1454-UA	Busted Butte		117C-6	-6.6	21.8	00500391
☒ Yes	HD-1454-UB	Busted Butte		117C-7	-5.5	20.8	00500391
☒ Yes	HD-1454-UC	Busted Butte		117C-8	-6.3	21.9	00500391
☒ Yes	HD-1456-LA	Busted Butte		118C-7	-5.4	20.0	00500393
☒ Yes	HD-1456-LA	Busted Butte		12C-7	-5.5	19.9	00500393
☒ Yes	HD-1456-LB	Busted Butte		118C-8	-4.9	20.1	00500393
☒ Yes	HD-1456-LB	Busted Butte		122C-8	-5.0	20.0	00500393
☒ Yes	HD-1456-LC	Busted Butte		118C-9	-4.2	19.5	00500393
☒ Yes	HD-1456-LC	Busted Butte		122C-9	-4.1	19.7	00500393
☒ Yes	HD-1456-UA	Busted Butte		118C-10	-4.7	20.2	00500393
☒ Yes	HD-1456-UA	Busted Butte		123C-1	-4.7	20.2	00500393
☒ Yes	HD-1456-UB	Busted Butte		119C-1	-5.2	19.4	00500393
☒ Yes	HD-240-01-A	Busted Butte		395-C-5	-5.0	19.8	00003025
☒ Yes	HD-240-01-B	Busted Butte		395-C-6	-4.9	20.2	00003025
☒ Yes	HD-240-02-A	Busted Butte		395-C-7	-4.2	20.4	00003025
☒ Yes	HD-240-02-A	Busted Butte		13C-9	-4.3	20.5	00003025
☒ Yes	HD-240-03-A	Busted Butte		395-C-9	-2.2	21.4	00003025
☒ Yes	HD-240-03-A	Busted Butte		13C-8	-2.2	21.4	00003025
☒ Yes	HD-240-04-A	Busted Butte		395-C-10	-5.4	19.6	00003025
☒ Yes	HD-241-01-A	Busted Butte		396-C-1	-3.3	21.0	00003026
☒ Yes	HD-241-01-A	Busted Butte		15C-4	-3.3	21.3	00003026
☒ Yes	HD-241-01-A	Busted Butte		18C-1	-3.1	21.3	00003026
☒ Yes	HD-241-02-A	Busted Butte		12C-2	-3.9	20.9	00003026
☒ Yes	HD-241-02-A	Busted Butte		12C-3	-3.8	20.8	00003026
☒ Yes	HD-241-03-A	Busted Butte		12C-4	-3.6	19.6	00003026
☒ Yes	HD-241-03-B	Busted Butte		12C-6	-4.9	20.5	00003026
☒ Yes	HD-243-02-A	Busted Butte		12C-8	-4.6	20.4	00003028
☒ Yes	HD-243-03-A	Busted Butte		12C-9	-3.9	20.1	00003028
☒ Yes	HD-446-1-A	Busted Butte		15C-5	-3.7	21.6	00001984
☒ Yes	HD-446-3A	Busted Butte		9C1	-4.0	21.2	00001984
☒ Yes	HD-446-4A	Busted Butte		9C2	-5.2	20.3	00001984
☒ Yes	HD-446-A	Busted Butte		13C-6	-4.9	20.7	00001984
☒ Yes	HD-447A	Busted Butte		9C3	14.4	21.0	00001985
☒ Yes	HD-448A	Busted Butte		9C4	-3.6	21.5	00001986
☒ Yes	HD-451A	Busted Butte		9C7	-4.8	21.5	00001989
☒ Yes	HD-56-5	Busted Butte		285-C-4	-5.1	19.6	00003661

CALCITE/SILICA - CARBONATE STABLE ISOTOPES

Accept?	HD #	Locality	Depth : m	Extn Log #	d13C pdb	d18O smow	SPC #
☒ Yes	HD-56-6	Busted Butte		321-C-8	-5.7	20.2	00003661
☒ Yes	HD-56-7	Busted Butte		286-C-2	-5.1	19.9	00003661
☒ Yes	HD-56-7	Busted Butte		321-C-9	-5.0	19.9	00003661
☒ Yes	HD-56-8	Busted Butte		282-C-6	-6.1	19.3	00003661
☒ Yes	HD-56-8	Busted Butte		283-C-7	-6.2	19.3	00003661
☒ Yes	HD-56-9	Busted Butte		285-C-5	-5.8	19.7	00003661
☒ Yes	HD-57	Busted Butte		323-C-3	-5.2	20.4	00003662
☒ Yes	HD-58	Busted Butte		323-C-4	-4.8	22.1	00003663
☒ Yes	HD-63-3	Busted Butte		282-C-10	-3.1	21.4	00003667
☒ Yes	HD-63-4	Busted Butte		285-C-9	-3.7	21.1	00003667
☒ Yes	HD-74-1-A	Busted Butte		287-C-2	-7.0	19.6	0000367
☒ Yes	HD-75	Busted Butte		323-C-5	-4.8	20.2	00003678
☒ Yes	HD-76	Busted Butte		323-C-6	-4.6	22.1	00003679
☒ Yes	HD-954B	Busted Butte		114C-9	-5.1	20.5	00005594
☒ Yes	HD-955AB	Busted Butte		115C-1	-5.7	19.5	00005595
☒ Yes	HD-955B-B	Busted Butte		123C-2	-5.6	19.8	00005595
☒ Yes	HD-955BB	Busted Butte		115C-2	-5.5	20.1	00005595
☒ Yes	HD-956A	Busted Butte		115C-6	-4.8	20.6	00005596
☒ Yes	HD-956B	Busted Butte		115C-7	-4.8	21.4	00005596
☒ Yes	HD-957A	Busted Butte		115C-8	-4.7	20.8	00005597
☒ Yes	HD-957B	Busted Butte		115C-9	-4.5	20.7	00005597
☒ Yes	HD-957C	Busted Butte		115C-10	-4.0	19.9	00005597
☒ Yes	HD-958A	Busted Butte		115C-3	-8.8	22.1	00005598
☒ Yes	HD-959B	Busted Butte		115C-4	-5.3	20.3	00005599
☒ Yes	HD-960A	Busted Butte		116C-1	-4.3	21.1	00005600
☒ Yes	HD-960B	Busted Butte		116C-5	-4.8	20.0	00005600
☒ Yes	HD-961-B	Busted Butte		119C-2	-5.2	19.9	00005401
☒ Yes	HD-961A	Busted Butte		116C-6	-4.9	19.7	00005401
☒ Yes	HD-961B	Busted Butte		116C-7	-5.3	19.3	00005401
☒ Yes	HD-961C	Busted Butte		116C-8	-5.4	18.8	00005401
☒ Yes	HD-961D	Busted Butte		116C-9	-4.8	19.7	00005401
☒ Yes	HD-962-B	Busted Butte		119C-3	-5.7	20.4	00005402
☒ Yes	HD-962A	Busted Butte		116C-10	-6.3	20.0	00005402
☒ Yes	HD-962B	Busted Butte		117C-1	-5.2	20.4	00005402

CALCITE/SILICA - CARBONATE STABLE ISOTOPES

Accept?	HD #	Locality	Depth : m	Extn Log #	d13C pdb	d18O smow	SPC #
☒ Yes	HD-453A	Yucca Crest		9C8	-5.8	18.8	00001990
☒ Yes	HD-454A	Yucca Crest		9C9	-6.6	20.0	00001991
☒ Yes	HD-455A	Yucca Crest		9C10	-5.8	19.9	00001992
☒ Yes	HD-456A	Yucca Crest		15C-6	-5.8	20.4	00001993
☒ Yes	HD-462-2-A	Yucca Crest		16C-4	-6.5	20.1	00001999
☒ Yes	HD-463-B	Yucca Crest		16C-5	-6.0	21.4	00002000
☒ Yes	HD-464-A	Yucca Crest		16C-7	-5.3	21.3	00004656

CALCITE/SILICA - CARBONATE STABLE ISOTOPES

Accept?	HD #	Locality	Depth : m	Extn Log #	d13C pdb	d18O smow	SPC #
☒ Yes	HD-457-A	Trench One		15C-7	2.2	19.8	00001994
☒ Yes	HD-458-A	Trench One		15C-10	-6.4	17.0	00001995
☒ Yes	HD-460-A	Trench One		16C-1	-5.6	19.8	00001997
☒ Yes	HD-461-A	Trench One		16C-2	-6.3	19.0	00001998

CALCITE/SILICA - CARBONATE STABLE ISOTOPES

Accept*	HD #	Locality	Depth : m	Extn Log #	d13C pdb	d18O smow	SPC #
☒ Yes	HD-254-2	Trench 16		395-C-3	-5.3	21.4	00003035
☒ Yes	HD-254-1	Trench 16		395-C-2	-5.6	19.6	00003035

See request number 27 for data form request numbers 29 and 30.

See request number 28 for data from request number 32.

Data for request number 33 are found with the following:

request number 17 for site 106
18 for site 199
19 for Trench CFS-E
19 for Trench CF-1
19 for Trench CF-2
19 for Trench 8
20 for Tonopah RR
21 for Trench 14
22 for Nevares Spring

CALCITE/SILICA - CARBONATE STABLE ISOTOPES

Accept?	HD #	Locality	Depth : m	Extn Log #	d13C pdb	d18O smow	SPC #
☒ Yes	HD-863-A	UE-25 RF-9	16.4	24C-4	-4.3	19.4	00019196
☒ Yes	HD-864-A	UE-25 RF-9	18.3	24C-5	-5.4	19.1	00019197
☒ Yes	HD-865-A	UE-25 RF-9	20.1	24C-7	-5.0	21.2	00019198
☒ Yes	HD-865-A	UE-25 RF-9	20.1	44C-1	-5.0	21.2	00019198
☒ Yes	HD-866-A	UE-25 RF-9	22.0	44C-2	-6.3	16.6	00019199

Request number 31.

CALCITE/SILICA - CARBONATE STABLE ISOTOPES

Accept?	HD #	Locality	Depth : m	Extn Log #	d13C pdb	d18O smow	SPC #
☒ Yes	HD-280A	USW G-1	885.4	347-C-6	-9.5	14.2	00004694
☒ Yes	HD-280A	USW G-1	885.5	34C-9	-9.4	14.4	00004694
☒ Yes	HD-280A	USW G-1	885.4	46C-8	-9.5	14.0	00004694
☒ Yes	HD-317A	USW G-1	97.7	34C-10	-5.5	17.4	00016016
☒ Yes	HD-317A	USW G-1	97.7	46C-9	-5.7	16.9	00016016
☒ Yes	HD-317B	USW G-1	97.7	35C-1	-6.1	17.1	00016016
☒ Yes	HD-317B	USW G-1	97.7	46C-10	-6.1	17.1	00016016
☒ Yes	HD-318A	USW G-1	129.7	35C-2	-4.8	14.6	00016017
☒ Yes	HD-318A	USW G-1	129.7	47C-1	-4.9	14.5	00016017
☒ Yes	HD-318A	USW G-1	129.7	47C-1	-4.9	14.4	00016017
☒ Yes	HD-318B	USW G-1	129.7	38C-2	-6.8	16.2	00016017
☒ Yes	HD-318B	USW G-1	129.7	47C-2	-6.8	16.0	00016017
☒ Yes	HD-319A	USW G-1	149.9	38C-3	-5.4	14.6	00016018
☒ Yes	HD-319A	USW G-1	149.9	38C-3	-5.4	14.7	00016018
☒ Yes	HD-319A	USW G-1	149.9	38C-3	-5.4	14.7	00016018
☒ Yes	HD-319A	USW G-1	149.9	47C-4	-5.4	14.3	00016018
☒ Yes	HD-319B	USW G-1	149.9	38C-4	-2.4	14.2	00016018
☒ Yes	HD-319B	USW G-1	149.9	80C-3	-2.4	14.3	00016018
☒ Yes	HD-319C	USW G-1	149.9	38C-6	3.7	13.9	00016018
☒ Yes	HD-319C	USW G-1	149.9	38C-6	3.5	13.6	00016018
☒ Yes	HD-319C	USW G-1	149.9	47C-6	3.4	13.3	00016018
☒ Yes	HD-319D	US[illegible]	149.9	39C-4	2.0	13.7	00016018
☒ Yes	HD-319D	US[illegible]	149.9	39C-4	2.1	13.7	00016018
☒ Yes	HD-319D	USW G-1	149.9	47C-7	2.1	13.6	00016018
☒ Yes	HD-319E	USW G-1	149.9	38C-8	-1.4	15.3	00016018
☒ Yes	HD-319E	USW G-1	149.9	47C-8	-1.5	15.2	00016018
☒ Yes	HD-320A	USW G-1	176.6	38C-10	-6.8	15.2	00016019
☒ Yes	HD-320A	USW G-1	176.6	38C-10	-6.9	15.1	00016019
☒ Yes	HD-320A	USW G-1	176.6	38C-10	-6.7	15.5	00016019
☒ Yes	HD-320A	USW G-1	176.6	47C-10	-6.8	15.3	00016019
☒ Yes	HD-320B	USW G-1	176.6	39C-1	-6.9	16.4	00016019
☒ Yes	HD-320B	USW G-1	176.6	39C-1	-6.9	16.2	00016019
☒ Yes	HD-320B	USW G-1	176.6	39C-1	-6.8	16.6	00016019
☒ Yes	HD-320B	USW G-1	176.6	45C-8	-6.8	16.5	00016019
☒ Yes	HD-320B	USW G-1	176.6	48C-1	-6.8	16.4	00016019
☒ Yes	HD-320C	USW G-1	176.6	45C-9	-7.7	17.0	00016019
☒ Yes	HD-320C	USW G-1	176.6	48C-2	-8.0	17.0	00016019
☒ Yes	HD-322A	USW G-1	204.0	39C-2	-0.6	14.5	00016021
☒ Yes	HD-322A	USW G-1	204.0	39C-2	-0.7	14.5	00016021
☒ Yes	HD-322A	USW G-1	204.0	39C-2	-0.5	14.7	00016021
☒ Yes	HD-322A	USW G-1	204.0	48C-3	-0.7	14.5	00016021
☒ Yes	HD-322B	USW G-1	204.0	39C-5	-4.9	14.6	00016021
☒ Yes	HD-322B	USW G-1	204.0	48C-4	-5.1	14.5	00016021

CALCITE/SILICA - CARBONATE STABLE ISOTOPES

Accept?	HD #	Locality	Depth : m	Extn Log #	d13C pdb	d18O smow	SPC #
☒ Yes	HD-322C	USW G-1	204.0	46C-2	-4.6	14.8	00016021
☒ Yes	HD-322C	USW G-1	204.0	48C-5	-5.2	15.0	00016021
☒ Yes	HD-325A	USW G-1	292.5	46C-3	-7.3	15.8	00016024
☒ Yes	HD-325A	USW G-1	292.5	48C-6	-7.3	15.8	00016024
☒ Yes	HD-326A	USW G-1	313.6	39C-6	-6.8	15.6	00016025
☒ Yes	HD-326A	USW G-1	313.6	48C-8	-6.8	15.6	00016025
☒ Yes	HD-327A	USW G-1	310.1	46C-5	-8.2	16.6	00016026
☒ Yes	HD-327A	USW G-1	310.1	48C-10	-7.9	16.6	00016026
☒ Yes	HD-327B	USW G-1	310.1	39C-10	-4.2	15.0	00016026
☒ Yes	HD-327B	USW G-1	310.1	49C-1	-4.5	14.8	00016026
☒ Yes	HD-327C	USW G-1	310.1	49C-2	-7.8	16.2	00016026
☒ Yes	HD-328A	USW G-1	345.7	49C-3	-7.5	16.3	00016027
☒ Yes	HD-328A	USW G-1	345.7	80C-4	-7.6	16.3	00016027
☒ Yes	HD-328B	USW G-1	345.7	49C-4	-7.1	15.5	00016027
☒ Yes	HD-329A	USW G-1	353.7	40C-2	-1.7	14.6	00016028
☒ Yes	HD-329A	USW G-1	353.7	49C-6	-1.6	14.2	00016028
☒ Yes	HD-330A	USW G-1	365.4	40C-3	-7.6	16.5	00016029
☒ Yes	HD-330A	USW G-1	365.4	49C-7	-7.5	16.5	00016029
☒ Yes	HD-330B	USW G-1	365.4	49C-8	-6.5	16.4	00016029
☒ Yes	HD-330B	USW G-1	365.4	52C-8	-6.4	16.8	00016029
☒ Yes	HD-331A	USW G-1	385.7	49C-9	-5.4	12.7	00016030
☒ Yes	HD-331A	US[illegible]	385.7	80C-6	-5.5	13.1	00016030
☒ Yes	HD-334A	US[illegible]	895.3	50C-1	4.4	11.8	00016033
☒ Yes	HD-334A	USW G-1	895.3	80C-7	4.2	11.9	00016033
☒ Yes	HD-336A	USW G-1	1090.3	50C-2	1.9	10.3	00016035
☒ Yes	HD-337A	USW G-1	1090.7	50C-3	1.7	10.0	00016036
☒ Yes	HD-337B	USW G-1	1090.7	50C-4	1.9	10.3	00016036
☒ Yes	HD-338A	USW G-1	1093.8	50C-5	2.1	10.0	00016037
☒ Yes	HD-339A	USW G-1	1109.8	50C-6	3.3	11.9	00016038
☒ Yes	HD-339A	USW G-1	1109.8	52C-9	3.3	11.9	00016038
☒ Yes	HD-340A	USW G-1	1112.7	50C-7	2.1	10.2	00016039
☒ Yes	HD-341A	USW G-1	1120.7	50C-9	2.3	10.1	00016040
☒ Yes	HD-341A	USW G-1	1120.7	53C-5	2.3	10.0	00016040
☒ Yes	HD-342D	USW G-1	1164.9	50C-8	3.3	11.3	00016041
☒ Yes	HD-343B	USW G-1	1178.8	50C-10	2.3	10.7	00016042
☒ Yes	HD-343C	USW G-1	1178.9	51C-6	1.9	11.0	00016042
☒ Yes	HD-343D	USW G-1	1178.8	51C-7	2.5	10.2	00016042
☒ Yes	HD-344B	USW G-1	1187.4	51C-8	1.4	9.6	00016043
☒ Yes	HD-345B	USW G-1	1427.0	51C-9	0.5	3.9	00016044
☒ Yes	HD-345B	USW G-1	1427.0	80C-8	0.4	4.0	00016044
☒ Yes	HD-346A	USW G-1	1550.0	51C-10	-0.2	3.4	00016045
☒ Yes	HD-346A	USW G-1	1550.0	80C-9	-0.3	3.4	00016045
☒ Yes	HD-347A	USW G-1	1618.8	52C-2	0.1	9.5	00016046

CALCITE/SILICA - CARBONATE STABLE ISOTOPES

Accept?	HD #	Locality	Depth : m	Extn Log #	d13C pdb	d18O smow	SPC #
☒ Yes	HD-347A	USW G-1	1618.8	80C-10	0.0	9.6	00016046
☒ Yes	HD-348A	USW G-1	1630.3	52C-3	0.1	2.4	00016047
☒ Yes	HD-348B	USW G-1	1630.3	52C-4	0.4	4.2	00016047
☒ Yes	HD-349A	USW G-1	1636.3	52C-5	0.4	1.3	00016048
☒ Yes	HD-350A	USW G-1	1654.6	52C-6	-0.4	6.9	00016050
☒ Yes	HD-350A	USW G-1	1654.6	52C-6	-0.4	6.9	00016050
☒ Yes	HD-350B	USW G-1	1654.6	53C-6	0.2	8.2	00016050

CALCITE/SILICA - CARBONATE STABLE ISOTOPES

Accept?	HD #	Locality	Depth : m	Extn Log #	d13C pdb	d18O smow	SPC #
☒ Yes	HD-261A	USW G-2	1279.9	54C-4	0.0	4.1	00004675
☒ Yes	HD-261A	USW G-2	1279.9	71C-4	-0.1	3.9	00004675
☒ Yes	HD-261B	USW G-2	1279.9	350-C-4	-0.6	7.8	00004675
☒ Yes	HD-262A	USW G-2	1459.4	350-C-7	-1.5	7.8	00004676
☒ Yes	HD-262B	USW G-2	1459.4	350-C-8	-1.0	8.1	00004676
☒ Yes	HD-263A	USW G-2	1636.8	350-C-9	1.1	9.4	00004677
☒ Yes	HD-264A	USW G-2	1639.5	347-C-8	1.9	12.9	00004678
☒ Yes	HD-264B	USW G-2	1639.5	347-C-9	0.7	6.2	00004678
☒ Yes	HD-264C	USW G-2	1639.5	349-C-7	-0.4	8.9	00004678
☒ Yes	HD-265A	USW G-2	1756.3	351-C-1	-0.8	7.1	00004679
☒ Yes	HD-265B	USW G-2	1756.3	351-C-2	-0.4	8.6	00004679
☒ Yes	HD-265C	USW G-2	1756.3	351-C-3	-0.5	9.7	00004679
☒ Yes	HD-266A	USW G-2	1794.1	349-C-9	1.4	10.8	00004680
☒ Yes	HD-272A	USW G-2	441.4	348-C-5	-5.7	14.7	00004686
☒ Yes	HD-272B	USW G-2	441.4	348-C-6	-8.2	15.6	00004686
☒ Yes	HD-272B	USW G-2	441.4	349-C-6	-8.3	15.6	00004686
☒ Yes	HD-272B	USW G-2	441.4	71C-6	-8.4	15.4	00004686
☒ Yes	HD-272D	USW G-2	441.4	348-C-7	-3.6	14.5	00004686
☒ Yes	HD-273A	USW G-2	463.9	348-C-1	-7.9	17.1	00004687
☒ Yes	HD-273B	USW G-2	463.9	348-C-2	-6.0	15.1	00004687
☒ Yes	HD-273C	USW G-2	463.9	348-C-3	-7.9	17.3	00004687
☒ Yes	HD-273D	USW G-2	463.9	348-C-4	-4.1	14.7	00004687
☒ Yes	HD-273E	USW G-2	463.9	350-C-5	-6.8	15.5	00004687
☒ Yes	HD-273E	USW G-2	463.9	71C-10	-7.0	15.4	00004687
☒ Yes	HD-273F	USW G-2	463.9	350-C-6	-7.3	15.7	00004687
☒ Yes	HD-274A	USW G-2	476.1	348-C-8	-1.5	14.4	00004688
☒ Yes	HD-274B	USW G-2	476.1	348-C-9	-0.9	13.8	00004688
☒ Yes	HD-274C	USW G-2	476.1	348-C-10	-4.7	15.9	00004688
☒ Yes	HD-274D	USW G-2	476.1	349-C-1	-7.5	18.3	00004688
☒ Yes	HD-274E	USW G-2	476.1	349-C-2	-8.2	18.3	00004688
☒ Yes	HD-275B	USW G-2	477.3	350-C-1	-2.0	14.8	00004689
☒ Yes	HD-275C	USW G-2	477.3	350-C-2	-0.2	14.0	00004689
☒ Yes	HD-275D	USW G-2	477.3	53C-8	-1.7	14.1	00004689
☒ Yes	HD-351A	USW G-2	92.2	53C-9	-7.6	20.7	00016051
☒ Yes	HD-351C	USW G-2	92.2	53C-10	-6.8	20.5	00016051
☒ Yes	HD-352A	USW G-2	95.9	54C-1	-5.9	19.8	00016052
☒ Yes	HD-352A	USW G-2	95.9	54C-5	-5.9	19.7	00016052
☒ Yes	HD-352A	USW G-2	95.9	56C-3	-5.9	19.8	00016052
☒ Yes	HD-353A	USW G-2	196.9	54C-2	-8.2	19.5	00016053
☒ Yes	HD-353A	USW G-2	196.9	54C-6	-8.2	19.5	00016053
☒ Yes	HD-353B	USW G-2	196.9	54C-7	-8.4	18.9	00016053
☒ Yes	HD-354A	USW G-2	204.3	54C-8	-7.5	17.2	00016054
☒ Yes	HD-355B	USW G-2	236.7	54C-9	-7.7	17.9	00016055

CALCITE/SILICA - CARBONATE STABLE ISOTOPES

Accept?	HD #	Locality	Depth : m	Extn Log #	d13C pdb	d18O smow	SPC #
☒ Yes	HD-355B	USW G-2	236.7	55C-4	-7.7	17.9	00016055
☒ Yes	HD-356B	USW G-2	240.7	54C-10	-7.9	19.0	00016056
☒ Yes	HD-357A	USW G-2	248.0	55C-2	-8.7	19.0	00016057
☒ Yes	HD-358B	USW G-2	257.8	55C-3	-7.5	17.4	00016058
☒ Yes	HD-359A	USW G-2	178.4	55C-5	-7.7	18.3	00016060
☒ Yes	HD-360A	USW G-2	258.2	55C-6	-8.0	19.3	00016059
☒ Yes	HD-361A	USW G-2	280.2	55C-7	-8.4	19.1	00016061
☒ Yes	HD-362B	USW G-2	280.2	55C-8	-8.3	18.7	00016062
☒ Yes	HD-366A	USW G-2	304.2	56C-1	-7.8	18.1	00016066
☒ Yes	HD-366B	USW G-2	304.2	56C-2	-8.0	18.8	00016066
☒ Yes	HD-366C	USW G-2	304.2	56C-5	-8.0	19.0	00016066
☒ Yes	HD-367A	USW G-2	324.5	56C-7	-6.9	16.7	00016067
☒ Yes	HD-367C	USW G-2	324.5	56C-6	-7.2	17.2	00016067
☒ Yes	HD-368A	USW G-2	346.7	57C-9	-8.1	18.3	00016068
☒ Yes	HD-368B	USW G-2	346.7	57C-10	-7.4	16.8	00016068
☒ Yes	HD-370A	USW G-2	360.8	57C-2	-7.9	19.1	00016070
☒ Yes	HD-370B	USW G-2	360.8	57C-3	-7.9	19.0	00016070
☒ Yes	HD-577A	USW G-2	1254.7	57C-4	-7.6	15.8	00016081
☒ Yes	HD-578A	USW G-2	1256.2	57C-5	0.4	4.0	00016082
☒ Yes	HD-579A	USW G-2	1268.8	57C-7	-0.2	4.7	00016083
☒ Yes	HD-579B	USW G-2	1268.8	57C-6	-0.1	6.3	00016083
☒ Yes	HD-580A	US[illegible]	1272.3	57C-8	-0.2	8.8	00016084
☒ Yes	HD-581B	US[illegible]	1493.6	57C-10	-0.7	6.6	00016085
☒ Yes	HD-582A	USW G-2	1497.4	58C-1	-2.1	6.5	00016086
☒ Yes	HD-582B	USW G-2	1497.4	58C-2	-0.6	6.9	00016086
☒ Yes	HD-583A	USW G-2	1556.7	58C-5	1.1	2.0	00016087
☒ Yes	HD-583A	USW G-2	1556.7	72C-3	1.1	2.0	00016087
☒ Yes	HD-584A	USW G-2	1559.6	58C-6	1.8	4.9	00016088
☒ Yes	HD-585A	USW G-2	1618.0	58C-7	1.2	8.5	00016089
☒ Yes	HD-586A	USW G-2	1624.7	58C-8	0.9	9.9	00016090
☒ Yes	HD-587B	USW G-2	1651.7	58C-10	1.3	8.9	00016091
☒ Yes	HD-588A	USW G-2	1655.4	59C-1	1.2	8.2	00016092
☒ Yes	HD-588A	USW G-2	1655.4	61C-6	1.2	8.4	00016092
☒ Yes	HD-589A	USW G-2	1668.7	59C-2	0.6	9.2	00016093
☒ Yes	HD-590A	USW G-2	1717.8	59C-3	-1.4	5.8	00016094
☒ Yes	HD-590A	USW G-2	1717.8	59C-4	-1.5	5.8	00016094
☒ Yes	HD-591A	USW G-2	1732.2	59C-5	-1.9	8.8	00016095
☒ Yes	HD-591B	USW G-2	1732.2	59C-6	-1.4	9.0	00016095
☒ Yes	HD-593A	USW G-2	1757.1	61C-8	0.0	8.1	00016097
☒ Yes	HD-594A	USW G-2	1760.7	60C-4	-0.2	6.8	00016098
☒ Yes	HD-595A	USW G-2	1763.4	60C-7	-0.8	7.5	00016099
☒ Yes	HD-595A	USW G-2	1763.4	61C-5	-0.8	7.7	00016099
☒ Yes	HD-595C	USW G-2	1763.4	60C-9	-0.3	8.4	00016099

CALCITE/SILICA - CARBONATE STABLE ISOTOPES

Accept?	HD #	Locality	Depth : m	Extn Log #	d13C pdb	d18O smow	SPC #
☒ Yes	HD-596A	USW G-2	1786.9	60C-10	0.4	9.9	00016100
☒ Yes	HD-597A	USW G-2	1792.2	61C-2	-0.1	7.3	00016101
☒ Yes	HD-597B	USW G-2	1792.2	61C-3	1.1	10.8	00016101

CALCITE/SILICA - CARBONATE STABLE ISOTOPES

Accept?	HD #	Locality	Depth : m	Extn Log #	d13C pdb	d18O smow	SPC #
☒ Yes	HD-926B	UE-25 A-5	85.2	63C-9	-6.3	17.8	00019106
☒ Yes	HD-926C	UE-25 A-5	85.2	63C-10	-6.4	17.7	00019106
☒ Yes	HD-927A	UE-25 A-5	85.9	64C-1	-2.8	14.7	00019107
☒ Yes	HD-927B	UE-25 A-5	85.9	64C-2	-6.7	17.8	00019107
☒ Yes	HD-927C	UE-25 A-5	85.9	64C-4	-6.4	17.7	00019107
☒ Yes	HD-928A	UE-25 A-5	86.9	64C-5	-7.5	18.6	00019108
☒ Yes	HD-928B	UE-25 A-5	86.9	64C-6	-6.5	18.3	00019108
☒ Yes	HD-929B	UE-25 A-5	92.2	64C-7	-5.8	17.9	00019109
☒ Yes	HD-931A	UE-25 A-5	104.8	64C-8	-6.8	17.8	00019111
☒ Yes	HD-932A	UE-25 A-5	108.5	64C-10	-5.2	15.9	00019112
☒ Yes	HD-933A	UE-25 A-5	110.9	65C-1	-6.2	17.6	00019113
☒ Yes	HD-935A	UE-25 A-5	140.2	65C-3	-5.9	17.3	00019115
☒ Yes	HD-936A	UE-25 A-5	143.2	66C-5	-6.2	17.5	00019116
☒ Yes	HD-937A	UE-25 A-5	145.8	66C-6	-6.0	15.2	00019117
☒ Yes	HD-937B	UE-25 A-5	145.8	65C-7	-6.0	16.2	00019117
☒ Yes	HD-938B	UE-25 A-5	147.7	65C-9	-6.1	16.8	00019118

CALCITE/SILICA - CARBONATE STABLE ISOTOPES

Accept?	HD #	Locality	Depth : m	Extn Log #	d13C pdb	d18O smow	SPC #
☒ Yes	HD-904A	UE-25 RF-3	3.4	62C-2	-6.5	19.6	00019210
☒ Yes	HD-905A	UE-25 RF-3	4.3	62C-3	-6.3	19.3	00019211
☒ Yes	HD-906A	UE-25 RF-3	4.7	62C-4	-5.8	19.0	00019212
☒ Yes	HD-907A	UE-25 RF-3	5.7	62C-5	-6.0	18.6	00019213
☒ Yes	HD-908A	UE-25 RF-3	9.3	62C-6	-5.3	19.3	00019214
☒ Yes	HD-909A	UE-25 RF-3	11.6	62C-7	-5.5	19.6	00019215
☒ Yes	HD-910A	UE-25 RF-3	15.9	62C-8	-4.7	19.5	00019216
☒ Yes	HD-911A	UE-25 RF-3	19.9	62C-9	-6.0	18.9	00019217
☒ Yes	HD-912A	UE-25 RF-3	25.9	63C-8	-6.1	19.0	00019218
☒ Yes	HD-913A	UE-25 RF-3	30.8	63C-1	-5.6	21.4	00019219

CALCITE/SILICA - CARBONATE STABLE ISOTOPES

Accept?	HD #	Locality	Depth : m	Extn Log #	d13C pdb	d18O smow	SPC #
☒ Yes	HD-267A	USW G-3/GU-3)	313.0	351-C-10	-4.3	18.9	00004681
☒ Yes	HD-267B	USW G-3/GU-3)	313.0	352-C-1	-4.8	19.2	00004681
☒ Yes	HD-268A	USW G-3/GU-3)	1309.7	352-C-4	2.2	10.9	00004682
☒ Yes	HD-268B	USW G-3/GU-3)	1309.7	352-C-5	2.2	10.6	00004682
☒ Yes	HD-268C	USW G-3/GU-3)	1309.7	352-C-6	2.4	11.4	00004682
☒ Yes	HD-268D	USW G-3/GU-3)	1309.7	352-C-7	2.3	9.5	00004682
☒ Yes	HD-269A	USW G-3/GU-3)	1346.0	352-C-8	2.0	11.7	00004683
☒ Yes	HD-269B	USW G-3/GU-3)	1346.0	352-C-9	0.6	10.2	00004683
☒ Yes	HD-270A	USW G-3/GU-3)	1464.0	351-C-6	1.7	7.5	00004684
☒ Yes	HD-276A	USW G-3/GU-3)	294.7	351-C-8	-3.9	18.7	00004690
☒ Yes	HD-276B	USW G-3/GU-3)	294.7	351-C-9	-5.2	19.2	00004690
☒ Yes	HD-277A	USW G-3/GU-3)	296.3	351-C-7	-5.4	19.4	00004691
☒ Yes	HD-277A	USW G-3/GU-3)	296.3	67C-10	-5.4	19.2	00004691
☒ Yes	HD-278A	USW G-3/GU-3)	346.9	357-C-9	-6.4	19.1	00004692
☒ Yes	HD-278B	USW G-3/GU-3)	346.9	357-C-10	-5.7	18.9	00004692
☒ Yes	HD-278C	USW G-3/GU-3)	346.9	358-C-1	-6.2	19.0	00004692
☒ Yes	HD-279A	USW G-3/GU-3)	357.8	352-C-2	-5.9	18.9	00004693
☒ Yes	HD-279B	USW G-3/GU-3)	357.8	352-C-3	-5.7	19.4	00004693
☒ Yes	HD-382A	USW G-3/GU-3)	11.5	65C-10	-5.8	19.6	00016102
☒ Yes	HD-383B	USW G-3/GU-3)	14.6	66C-1	-5.6	20.9	00016103
☒ Yes	HD-383C	USW G-3/GU-3)	14.5	66C-2	-6.4	21.0	00016103
☒ Yes	HD-384A	USW G-3/GU-3)	31.5	66C-3	-6.4	20.7	00016104
☒ Yes	HD-385B	USW G-3/GU-3)	45.6	66C-6	-6.5	21.1	00016105
☒ Yes	HD-386A	USW G-3/GU-3)	50.3	66C-8	-6.4	20.7	00016106
☒ Yes	HD-387A	USW G-3/GU-3)	60.7	66C-9	-5.3	20.7	00016107
☒ Yes	HD-388B	USW G-3/GU-3)	62.5	66C-10	-6.4	20.1	00016108
☒ Yes	HD-388C	USW G-3/GU-3)	62.5	67C-2	-5.5	20.7	00016108
☒ Yes	HD-390A	USW G-3/GU-3)	73.5	67C-4	-6.6	20.3	00016110
☒ Yes	HD-390B	USW G-3/GU-3)	73.5	67C-5	-6.4	20.9	00016110
☒ Yes	HD-390C	USW G-3/GU-3)	73.5	67C-6	-6.8	20.5	00016110
☒ Yes	HD-390D	USW G-3/GU-3)	73.5	67C-7	-4.8	20.0	00016110
☒ Yes	HD-390E	USW G-3/GU-3)	73.5	67C-8	-6.7	20.4	00016110
☒ Yes	HD-391A	USW G-3/GU-3)	75.8	67C-9	-6.1	20.3	00016111
☒ Yes	HD-392A	USW G-3/GU-3)	82.8	68C-2	-6.5	20.2	00016112
☒ Yes	HD-392B	USW G-3/GU-3)	82.8	68C-3	-5.4	20.4	00016112
☒ Yes	HD-392B	USW G-3/GU-3)	82.8	69C-6	-5.5	20.4	00016112
☒ Yes	HD-395A	USW G-3/GU-3)	100.6	68C-6	-6.0	20.3	00016115
☒ Yes	HD-395B	USW G-3/GU-3)	100.6	68C-7	-5.6	19.9	00016115
☒ Yes	HD-397A	USW G-3/GU-3)	112.1	68C-10	-5.4	20.7	00016117
☒ Yes	HD-397B	USW G-3/GU-3)	112.1	69C-1	-6.6	19.6	00016117
☒ Yes	HD-398A	USW G-3/GU-3)	131.4	69C-2	-5.3	19.9	00016118
☒ Yes	HD-400B	USW G-3/GU-3)	146.2	69C-5	-5.4	20.0	00016120
☒ Yes	HD-401A	USW G-3/GU-3)	151.9	69C-7	-4.2	20.0	00016121

CALCITE/SILICA - CARBONATE STABLE ISOTOPES

Accept?	HD #	Locality	Depth : m	Extn Log #	d13C pdb	d18O smow	SPC #
☒ Yes	HD-403A	USW G-3/GU-3)	168.6	69C-8	-4.1	19.3	00016123
☒ Yes	HD-406A	USW G-3/GU-3)	192.0	69C-9	-5.8	20.0	00016126
☒ Yes	HD-421A	USW G-3/GU-3)	341.7	70C-1	-5.3	18.4	00016141
☒ Yes	HD-422A	USW G-3/GU-3)	349.8	71C-2	-6.0	18.1	00016142
☒ Yes	HD-422A	USW G-3/GU-3)	349.6	70C-2	-6.0	18.2	00016142
☒ Yes	HD-424A	USW G-3/GU-3)	521.4	70C-3	-5.7	15.8	00016144
☒ Yes	HD-598A	USW G-3/GU-3)	893.6	71C-5	2.1	9.6	00016157
☒ Yes	HD-599A	USW G-3/GU-3)	897.9	72C-1	2.4	9.1	00016158
☒ Yes	HD-599B	USW G-3/GU-3)	897.9	72C-4	3.2	8.9	00016158
☒ Yes	HD-600A	USW G-3/GU-3)	900.3	72C-6	3.3	9.0	00016159
☒ Yes	HD-601A	USW G-3/GU-3)	903.6	72C-7	2.2	9.2	00016160
☒ Yes	HD-602B	USW G-3/GU-3)	908.5	72C-9	2.7	9.2	00016161
☒ Yes	HD-606A	USW G-3/GU-3)	938.5	73C-1	3.7	9.4	00016165
☒ Yes	HD-606B	USW G-3/GU-3)	938.5	73C-2	2.0	9.5	00016165
☒ Yes	HD-608A	USW G-3/GU-3)	946.9	73C-4	3.2	9.0	00016167
☒ Yes	HD-610A	USW G-3/GU-3)	1315.6	73C-5	2.3	7.1	00016169
☒ Yes	HD-610B	USW G-3/GU-3)	1315.6	73C-6	2.3	11.0	00016169
☒ Yes	HD-610C	USW G-3/GU-3)	1315.6	73C-7	2.6	7.7	00016169
☒ Yes	HD-611A	USW G-3/GU-3)	1324.8	73C-8	1.6	10.0	00016170
☒ Yes	HD-612A	USW G-3/GU-3)	1330.5	73C-9	1.0	8.3	00016171
☒ Yes	HD-613A	USW G-3/GU-3)	1343.0	73C-10	1.4	11.0	00016172
☒ Yes	HD-614A	USW G-3/GU-3)	1349.5	74C-2	2.1	11.0	00016173
☒ Yes	HD-614B	USW G-3/GU-3)	1349.5	74C-3	1.9	11.2	00016173
☒ Yes	HD-615A	USW G-3/GU-3)	1407.9	74C-4	1.6	7.8	00016174
☒ Yes	HD-617A	USW G-3/GU-3)	1456.2	74C-6	0.9	12.0	00016176
☒ Yes	HD-619A	USW G-3/GU-3)	1521.0	74C-8	2.3	10.6	00016178
☒ Yes	HD-620A	USW G-3/GU-3)	1530.0	74C-10	0.9	8.9	00016179
☒ Yes	HD-722A	USW G-3/GU-3)	13.3	70C-4	-6.6	20.6	00005520
☒ Yes	HD-723A	USW G-3/GU-3)	14.4	70C-7	-6.6	20.7	00005519
☒ Yes	HD-723B	USW G-3/GU-3)	14.4	70C-8	-6.1	20.9	00005519
☒ Yes	HD-724A	USW G-3/GU-3)	17.3	70C-9	-6.6	20.9	00005518
☒ Yes	HD-725A	USW G-3/GU-3)	22.1	70C-10	-6.4	20.2	00005517
☒ Yes	HD-726A	USW G-3/GU-3)	27.4	71C-1	-6.3	20.4	00005516

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CALCITE/SILICA - CARBONATE STABLE ISOTOPES

Accept?	HD #	Locality	Depth : m	Extn Log #	d13C pdb	d18O smow	SPC #
☒ Yes	HD-674A	USW G-4	107.4	365-C-4	4.9	16.0	00004866
☒ Yes	HD-674B	USW G-4	107.4	365-C-5	0.6	16.6	00004866
☒ Yes	HD-674C	USW G-4	107.4	26C-7	-4.4	17.1	00004866
☒ Yes	HD-674D	USW G-4	107.4	75C-1	-7.6	17.7	00004866
☒ Yes	HD-676A	USW G-4	168.9	75C-2	-3.5	16.0	00004864
☒ Yes	HD-677	USW G-4	180.9	286-C-8	-6.7	17.4	00004863
☒ Yes	HD-677A	USW G-4	180.9	26C-8	-5.7	16.7	00004863
☒ Yes	HD-677B	USW G-4	180.9	75C-3	-6.7	17.2	00004863
☒ Yes	HD-678	USW G-4	204.2	286-C-9	-7.9	17.6	00004862
☒ Yes	HD-678A	USW G-4	204.2	75C-4	-8.0	17.6	00004862
☒ Yes	HD-679A	USW G-4	265.5	365-C-1	-7.0	16.8	00004861
☒ Yes	HD-679A	USW G-4	265.5	36C-10	-7.0	16.9	00004861
☒ Yes	HD-679A	USW G-4	265.5	36C-10	-7.0	16.9	00004861
☒ Yes	HD-679C	USW G-4	265.5	27C-7	4.7	19.9	00004861
☒ Yes	HD-679C	USW G-4	265.5	75C-5	-8.0	15.8	00004861
☒ Yes	HD-681	USW G-4	401.1	365-C-6	-9.0	16.1	00004859
☒ Yes	HD-689A	USW G-4	841.6	28C-3	-5.6	13.8	00004851
☒ Yes	HD-701AA	USW G-4	75.6	75C-10	-6.7	17.6	00005541
☒ Yes	HD-703A	USW G-4	114.4	28C-6	-6.8	17.3	00005539
☒ Yes	HD-704A	USW G-4	124.5	28C-7	-6.6	17.4	00005538
☒ Yes	HD-704B	USW G-4	124.5	28C-8	-7.0	17.5	00005538
☒ Yes	HD-706BB	US[illegible]	166.9	76C-1	-6.5	17.3	00005536
☒ Yes	HD-707B	U[illegible]	168.9	36C-8	-6.5	17.5	00005535
☒ Yes	HD-707B	USW G-4	168.9	36C-8	-6.5	17.5	00005535
☒ Yes	HD-709A	USW G-4	179.9	32C-7	-0.5	15.7	00005533
☒ Yes	HD-709A	USW G-4	179.9	32C-9	-0.5	15.6	00005533
☒ Yes	HD-709B	USW G-4	179.9	32C-10	2.4	15.2	00005533
☒ Yes	HD-709C	USW G-4	179.9	33C-1	-6.3	16.4	00005533
☒ Yes	HD-711A	USW G-4	204.2	33C-2	-7.4	17.1	00005531
☒ Yes	HD-712A	USW G-4	376.5	33C-3	-7.6	16.6	00005530
☒ Yes	HD-713A	USW G-4	400.9	36C-9	-8.7	16.6	00005529
☒ Yes	HD-713A	USW G-4	400.9	36C-9	-8.7	16.6	00005529

Request number 42.

See the following request for the remaining data.
#17 for site 106, #26 for Wahmonie,
#22 for Nevares Spring, #27 for Grapevine Spring,
#31 for UE 25 RF-9, #28 for Yucca Crest.

CALCITE/SILICA - CARBONATE STABLE ISOTOPES

Accept?	HD #	Locality	Depth : m	Extra Log #	d13C pdb	d18O smow	SPC #
☒ Yes	HD-871-A	UE-25 A-6	35.8	25C-2	-7.6	18.8	00019121
☒ Yes	HD-872-A	UE-25 A-6	40.6	25C-3	-6.8	18.4	00019122
☒ Yes	HD-872A	UE-25 A-6	40.6	45C-10	-6.8	18.7	00019122
☒ Yes	HD-875-A	UE-25 A-6	114.4	25C-5	-5.5	16.7	00019125
☒ Yes	HD-876-A	UE-25 A-6	119.2	25C-6	-6.2	16.2	00019126
☒ Yes	HD-877-A	UE-25 A-6	121.6	25C-7	-7.0	17.9	00019127
☒ Yes	HD-877A	UE-25 A-6	121.6	46C-4	-7.0	17.9	00019127
☒ Yes	HD-878-A	UE-25 A-6	125.5	26C-2	-7.2	17.9	00019128
☒ Yes	HD-879-A	UE-25 A-6	132.6	26C-3	-6.6	17.8	00019129

Request number 42.

See the following request for the remaining data.
#17 for site 106, #26 for Wahmonie,
#22 for Nevares Spring, #27 for Grapevine Spring,
#31 for UE 25 RF-9, #28 for Yucca Crest.