

Sample ^a	EXP1 387 Ash	EXP1 1902 Clay	EXP1 1958 Halite	EXP2 730 Ash	EXP2 766 Clay	EXP2 1924 Clay	EXP2 1938 Ash	EXP3 204 Clay
Amphibole	6.1	-	-	-	-	-	-	-
Analcime	-	20	-	-	-	-	-	-
Ankerite	-	3.5	-	-	-	-	3.7	-
Anorthite	-	-	-	-	11.8	12.4	-	-
Calcite	7	4.3	1.1	1.1	36.6	32.9	2.3	29.2
Chamosite	-	-	-	-	-	-	-	-
Chlorite	-	-	-	-	-	-	-	-
Dolomite	-	-	-	-	-	-	-	-
Enstatite	-	5.6	-	-	-	-	-	-
Goethite	1.5	1.7	-	-	-	-	-	-
Halite	2.3	4.1	91.6	1.1	6.6	12.2	8.1	11.5
Heulandite	-	-	-	-	-	-	-	-
Illite	-	3.9	-	2.7	8.8	4.3	2.8	8.6
Ilmenite	-	-	-	-	-	-	-	1
Jarosite	3.8	-	-	-	-	-	-	-
Kaolinite	2.9	-	-	-	5.6	3.9	-	-
Lepidolite	-	4.2	-	-	-	-	-	-
Magnetite	-	0.7	-	-	-	-	-	-
Mica	14.8	6.4	-	-	-	-	-	-
Muscovite	-	-	-	-	-	-	5.2	12.1
Plagioclase	18.7	5.8	1.5	37.8	-	-	28.1	15.1
Potassium Feldspar	18	24.2	4.3	13.4	11.2	14.9	11.3	12.8
Quartz	24.8	15	1.4	43.8	19.5	19.4	34.9	9.8
Rutile	-	0.5	-	-	-	-	-	-
Sylvite	-	-	0.2	-	-	-	-	-
Tremolite	-	-	-	-	-	-	3.7	-

^a "-" = mineral not detected in sample

EXP3 1206 Clay	EXP4 2153 Halite	EXP5 912 Clay
-	-	-
-	2.3	-
-	-	-
-	-	-
27.5	-	15.6
-	-	4.1
-	0.8	-
-	6.3	-
-	-	-
-	-	-
2.1	88.5	1.3
0.4	-	3.6
6.4	-	10.9
-	-	-
1.3	-	-
3.6	-	-
-	-	-
-	-	-
-	-	-
17.2	-	19.6
17.3	-	12.2
12.7	0.4	16.7
11.5	1.2	16.1
-	-	-
-	0.4	-
-	-	-

	Clay	Volcanic Ash	Halite
g/cm3	1.746		1.2 2.16
g/km3	1.75E+15	1.20E+15	2.16E+15

Sample	$^{40}\text{Ar}/^{39}\text{Ar}$ Age
EXP1 387	767.5 ± 3.5 ka
EXP2 894	959 ka ± 12.2 Ma
EXP2 206	(2.087 ± 0.024) Ma
EXP3 325	768.6 ± 2.7 ka
EXP5 229	770 ka ± 27 Ma
EXP5 884	1.96 ± 0.05 Ma

Sample	Temperature Interval			Average	R2 and slope	Exponential Fit ([Li] =
	20 – 35	35 – 65	65 – 95			
EXP1 387 Ash	-0.0433	0.171	-0.0836	0.0431	0.395; sigr	19.559*exp(0.002006
EXP1 1902 Clay	0.994	1.2	0.168	0.784	0.911; sigr	104.82*exp(0.005560
EXP2 730 Ash	-0.243	0.0298	0.147	0.0318	0.180; not	9.9202*exp(0.002554
EXP2 766 Clay	0.269	0.166	1.25	0.586	0.829; sigr	63.958*exp(0.006061
EXP2 1924 Clay	0.365	0.433	0.516	0.454	0.996; sigr	70.055*exp(0.004864
EXP2 1938 Ash	0.123	0.152	0.268	0.191	0.972; sigr	22.682*exp(0.005864
EXP3 204 Clay	1.253	-0.113	-0.6	-0.086	0.071; not	178.8*exp((-0.00050C
EXP3 1206 Clay	1.69	0.767	-0.499	0.436	0.513; sigr	43.88*exp(0.0073585
EXP5 912 Clay	0.101	0.414	0.0505	0.231	0.899; sigr	33.417*exp(0.005181
Bishop Tuff	0.00334	-0.00667	0.0316	0.0091	0.513; sigr	0.47569*exp(0.00866

a Calculated as the slope from best fit lines in graphs on Figure 4

b R2 and slope significance (p<0.05) of best fit lines in Figure 4

c where x is temperature in °C

)c

i8*x)

i4*x)

.7*x)

.2*x)

.7*x)

.1*x)

i46)*x)

i*x)

.9*x)

i46*x)

Analysis	Upper Clastic Unit	Main Ash Unit ^b	Lower Clastic Unit ^b
Mean	528 140/70		556/530
Median	440 75/70		520/495
Mode	1000 N/A ^a		100/100
Standard Deviation	327 140/10		388/352
Range	950 290/20		1620/1220
Minimum	50 60/60		80/80
Maximum	1000 350/80		1700/1300
Count	19 4/3		47/46
First Quartile	260 67.5/65		235/228
Middle Quartile	440 75/70		520/495
Third Quartile	790 148/75		755/748

a N/A = data not available

b Values including and excluding outlier points

Clastic and Ash Unit

800

865

1300

397

1350

50

1400

52

570

865

1100

Sample	Temperature □	Alkalinity mg/L as C	Cl mg/L	SO4 mg/L	Al mg/L	Ca mg/L	K mg/L	
EXP1 387 Ash	20	111		370	100	0.003	74.5	35.7
EXP1 387 Ash	35	107		350	100	0.005	74.7	37.3
EXP1 387 Ash	65	62		370	100	0.016	58	42.2
EXP1 387 Ash	95	41		440	130	0.095	88	49.9
EXP1 1902 Clay	20	123		770	120	0.023	40.4	20.7
EXP1 1902 Clay	35	133		780	130	0.023	42.6	22.4
EXP1 1902 Clay	65	99		780	130	0.009	32.2	25.6
EXP1 1902 Clay	95	88		870	150	0.104	31	26
EXP1 1958 Halite	20	115	13000		110	0.003	87.9	11.5
EXP2 730 Ash	20	111		330	110	0.007	112	23.2
EXP2 730 Ash	35	112		300	100	0.008	108	21.1
EXP2 730 Ash	65	83		310	98	0.098	97	23.2
EXP2 730 Ash	95	57		510	190	0.06	136	32.6
EXP2 766 Clay	20	131		690	250	0.006	149	102
EXP2 766 Clay	35	133		700	230	0.002	97.5	108
EXP2 766 Clay	65	79		640	180	0.01	50.5	117
EXP2 766 Clay	95	57		910	270	0.03	100	129
EXP2 1924 Clay	20	117		830	180	0.002	90.8	58.8
EXP2 1924 Clay	35	122		900	220	0.004	134	69.8
EXP2 1924 Clay	65	70		850	210	0.01	78	83.2
EXP2 1924 Clay	95	62		990	270	0.02	118	85
EXP2 1938 Ash	20	109		550	110	0.002	103	27.3
EXP2 1938 Ash	35	113		560	120	0.007	107	30.6
EXP2 1938 Ash	65	78		550	120	0.034	95.3	35.1
EXP2 1938 Ash	95	56		860	240	0.02	161	42.7
EXP3 204 Clay	20	121		1200	260	0.004	145	126
EXP3 204 Clay	35	128		1200	260	0.003	166	141
EXP3 204 Clay	65	81		1200	250	0.009	107	140
EXP3 204 Clay	95	58		1300	230	0.068	158	181
EXP3 1206 Clay	20	114		560	190	0.003	73.2	47
EXP3 1206 Clay	35	118		560	210	0.004	78.1	53.3
EXP3 1206 Clay	65	78		580	220	0.01	61.3	67.6
EXP3 1206 Clay	95	58		660	210	0.04	61.7	73.5
EXP4 2153 Halite	20	111	13000		110	0.003	90.4	11.6
EXP5 912 Clay	20	107		410	110	0.003	26.9	42.2
EXP5 912 Clay	35	118		400	110	0.005	26.9	42.6
EXP5 912 Clay	65	92		440	110	0.013	18	59.9
EXP5 912 Clay	95	70		490	130	0.094	17.3	69.6
Bishop Tuff	20	581		240	99	0.021	114	14.1
Bishop Tuff	35	106		240	97	0.006	118	15
Bishop Tuff	65	64		250	88	0.042	92.3	15.3
Bishop Tuff	95	36		360	150	0.08	115	19.6

Li mg/L	Mg mg/L	Na mg/L	Si mg/L	Sr mg/L
0.5	17	193	23.2	0.598
0.487	17.1	189	25.6	0.574
0.589	13.4	199	28.1	0.498
0.539	4.16	191	44.4	0.862
2.35	9.04	492	14.8	0.61
2.65	8.75	509	15.4	1.29
3.37	4.21	504	14.7	1.39
3.47	2.29	456	16.1	1.58
0.342	18.8	6715	21	1.38
0.347	21.9	197	24.6	1.48
0.274	21	169	24.2	1.44
0.292	20.7	176	22.7	1.39
0.38	22.8	236	45.5	1.86
1.6	15.1	448	20.6	31.9
1.68	14.7	435	23.6	16.1
1.78	7.71	479	31.4	7.17
2.53	4.67	534	51	12.9
1.64	14.4	527	23	16.9
1.75	14.3	556	34.4	28.1
2.01	8.27	531	34.2	17.6
2.32	4.76	592	56.4	21.3
0.609	21.2	354	22.9	1.26
0.646	21.8	368	24.2	1.26
0.737	19.8	373	25.5	1.15
0.898	22.6	415	49.9	2.01
3.42	18.3	635	14.9	36.2
3.8	19.5	685	16.7	35.8
3.73	13.4	655	13.4	35.2
3.37	3.58	692	19.7	23.8
1.32	9.88	371	16.9	20.4
1.42	9.81	384	17.6	23.3
1.88	5.61	395	18.4	19.6
1.58	0.823	362	30.7	11.8
0.196	20.1	6967	21.5	1.49
0.831	8.23	291	15.2	0.422
0.861	8.23	290	15.4	0.424
1.11	4.06	311	18.4	0.34
1.14	0.646	284	25.6	0.348
0.104	20.4	121	24.4	1.21
0.105	21.5	128	25.3	1.27
0.101	20.3	131	24.7	1.16
0.12	18.8	159	41.6	1.44

Sample	Temperature □	Alkalinity mg/L as C	Cl mg/L	SO4 mg/L	Al mg/L	Ca mg/L	K mg/L	
FWW	20	102		240	94	0	89.4	10.6
EXP1 387 Ash	20	9		130	6	0.003	-14.9	25.1
EXP1 387 Ash	35	5		110	6	0.005	-14.7	26.7
EXP1 387 Ash	65	-40		130	6	0.016	-31	31.6
EXP1 387 Ash	95	-61		200	36	0.095	-1.4	39.3
EXP1 1902 Clay	20	21		530	26	0.023	-49	10.1
EXP1 1902 Clay	35	31		540	36	0.023	-46.8	11.8
EXP1 1902 Clay	65	-3		540	36	0.009	-57.2	15
EXP1 1902 Clay	95	-14		630	56	0.104	-58.4	15.4
EXP1 1958 Halite	20	13	12700		16	0.003	-1.5	0.9
EXP2 730 Ash	20	9		90	16	0.007	22.6	12.6
EXP2 730 Ash	35	10		60	6	0.008	18.6	10.5
EXP2 730 Ash	65	-19		70	4	0.098	7.6	12.6
EXP2 730 Ash	95	-45		270	96	0.06	46.6	22
EXP2 766 Clay	20	29		450	156	0.006	59.6	91.4
EXP2 766 Clay	35	31		460	136	0.002	8.1	97.4
EXP2 766 Clay	65	-23		400	86	0.01	-38.9	106
EXP2 766 Clay	95	-45		670	176	0.03	10.6	118
EXP2 1924 Clay	20	15		590	86	0.002	1.4	48.2
EXP2 1924 Clay	35	20		660	126	0.004	44.6	59.2
EXP2 1924 Clay	65	-32		610	116	0.01	-11.4	72.6
EXP2 1924 Clay	95	-40		750	176	0.02	28.6	74.4
EXP2 1938 Ash	20	7		310	16	0.002	13.6	16.7
EXP2 1938 Ash	35	11		320	26	0.007	17.6	20
EXP2 1938 Ash	65	-24		310	26	0.034	5.9	24.5
EXP2 1938 Ash	95	-46		620	146	0.02	71.6	32.1
EXP3 204 Clay	20	19		960	166	0.004	55.6	115
EXP3 204 Clay	35	26		960	166	0.003	76.6	130
EXP3 204 Clay	65	-21		960	156	0.009	17.6	129
EXP3 204 Clay	95	-44	1060		136	0.068	68.6	170
EXP3 1206 Clay	20	12		320	96	0.003	-16.2	36.4
EXP3 1206 Clay	35	16		320	116	0.004	-11.3	42.7
EXP3 1206 Clay	65	-24		340	126	0.01	-28.1	57
EXP3 1206 Clay	95	-44		420	116	0.04	-27.7	62.9
EXP4 2153 Halite	20	9	12,700		16	0.003	1	1
EXP5 912 Clay	20	5		170	16	0.003	-62.5	31.6
EXP5 912 Clay	35	16		160	16	0.005	-62.5	32
EXP5 912 Clay	65	-10		200	16	0.013	-71.4	49.3
EXP5 912 Clay	95	-32		250	36	0.094	-72.1	59
Bishop Tuff	20	479		0	5	0.021	24.6	3.5
Bishop Tuff	35	4		0	3	0.006	28.6	4.4
Bishop Tuff	65	-38		10	-6	0.042	2.9	4.7
Bishop Tuff	95	-66		120	56	0.08	25.6	9

Li mg/L	Mg mg/L	Na mg/L	Si mg/L	Sr mg/L
0.091	21.4	104	21.4	0.984
0.409	-4.4	89	1.8	-0.386
0.396	-4.3	85	4.2	-0.41
0.498	-8	95	6.7	-0.486
0.448	-17.2	87	23	-0.122
2.26	-12.4	388	-6.6	-0.374
2.56	-12.6	405	-6	0.306
3.28	-17.2	400	-6.7	0.406
3.38	-19.1	352	-5.3	0.596
0.251	-2.6	6610	-0.4	0.396
0.256	0.5	93	3.2	0.496
0.183	-0.4	65	2.8	0.456
0.201	-0.7	72	1.3	0.406
0.289	1.4	132	24.1	0.876
1.51	-6.3	344	-0.8	30.9
1.59	-6.7	331	2.2	15.1
1.69	-13.7	375	10	6.186
2.44	-16.7	430	29.6	11.9
1.55	-7	423	1.6	15.9
1.66	-7.1	452	13	27.1
1.92	-13.1	427	12.8	16.6
2.23	-16.6	488	35	20.3
0.518	-0.2	250	1.5	0.276
0.555	0.4	264	2.8	0.276
0.646	-1.6	269	4.1	0.166
0.807	1.2	311	28.5	1.03
3.33	-3.1	531	-6.5	35.2
3.71	-1.9	581	-4.7	34.8
3.64	-8	551	-8	34.2
3.28	-17.8	588	-1.7	22.8
1.23	-11.5	267	-4.5	19.4
1.33	-11.6	280	-3.8	22.3
1.79	-15.8	291	-3	18.6
1.49	-20.6	258	9.3	10.8
0.105	-1.3	6860	0.1	0.506
0.74	-13.2	187	-6.2	-0.562
0.77	-13.2	186	-6	-0.56
1.02	-17.3	207	-3	-0.644
1.05	-20.7	180	4.2	-0.636
0.013	-1	17	3	0.226
0.014	0.1	24	3.9	0.286
0.01	-1.1	27	3.3	0.176
0.029	-2.6	55	20.2	0.456

Sample	Temp. □	Alkalinity mg/kg (as	Cl mg/kg	SO4 mg/kg	Al mg/kg	Ca mg/kg	K mg/kg
EXP1 387 Ash	20	449	6490	300	0.15	-744	1250
EXP1 387 Ash	35	250	5490	300	0.25	-734	1330
EXP1 387 Ash	65	-2000	6500	300	0.8	-1570	1580
EXP1 387 Ash	95	-3050	9990	1800	4.75	-69.9	1960
EXP1 1902 Clay	20	1050	26500	1300	1.15	-2450	505
EXP1 1902 Clay	35	1550	27000	1800	1.15	-2340	589
EXP1 1902 Clay	65	-150	27000	1800	0.449	-2860	749
EXP1 1902 Clay	95	-700	31500	2800	5.2	-2920	769
EXP2 730 Ash	20	449	4490	799	0.35	1130	629
EXP2 730 Ash	35	500	3000	300	0.399	930	525
EXP2 730 Ash	65	-949	3500	200	4.89	380	629
EXP2 730 Ash	95	-2250	13500	4790	2.99	2330	1100
EXP2 766 Clay	20	1450	22500	7790	0.299	2980	4560
EXP2 766 Clay	35	1550	23000	6800	0.0999	405	4870
EXP2 766 Clay	65	-1150	20000	4300	0.499	-1940	5320
EXP2 766 Clay	95	-2250	33500	8790	1.5	530	5910
EXP2 1924 Clay	20	750	29500	4300	0.0999	69.9	2410
EXP2 1924 Clay	35	999	33000	6290	0.199	2230	2960
EXP2 1924 Clay	65	-1600	30500	5800	0.499	-570	3630
EXP2 1924 Clay	95	-2000	37500	8790	0.999	1430	3720
EXP2 1938 Ash	20	350	15500	799	0.0999	679	834
EXP2 1938 Ash	35	550	16000	1300	0.35	879	999
EXP2 1938 Ash	65	-1200	15500	1300	1.7	295	1224
EXP2 1938 Ash	95	-2300	31000	7290	0.999	3580	1600
EXP3 204 Clay	20	949	48000	8290	0.2	2780	5770
EXP3 204 Clay	35	1300	47900	8290	0.15	3820	6510
EXP3 204 Clay	65	-1050	48000	7790	0.45	879	6460
EXP3 204 Clay	95	-2200	53000	6790	3.4	3430	8510
EXP3 1206 Clay	20	400	10700	3200	0.0999	-539	1210
EXP3 1206 Clay	35	799	16000	5790	0.2	-564	2130
EXP3 1206 Clay	65	-1200	17000	6290	0.499	-1400	2850
EXP3 1206 Clay	95	-2200	21000	5790	2	-1380	3140
EXP5 912 Clay	20	250	8490	799	0.15	-3120	1580
EXP5 912 Clay	35	799	7990	799	0.25	-3120	1600
EXP5 912 Clay	65	-499	9990	799	0.65	-3560	2460
EXP5 912 Clay	95	-1600	12500	1800	4.7	-3600	2950
Bishop Tuff	20	23900	0	250	1.05	1230	175
Bishop Tuff	35	200	0	150	0.3	1430	220
Bishop Tuff	65	-1900	499	-300	2.1	145	235
Bishop Tuff	95	-3300	5990	2800	3.99	1280	449

a "-" = not analyzed

Li mg/kg	Mg mg/kg	Na mg/kg	Si mg/kg	Sr mg/kg	pHa	Mass loss g
20.4	-220	4440	89.9	-19.3	7.91	0.0266
19.8	-215	4240	210	-20.5	7.68	0.025
24.9	-400	4750	335	-24.3	7.7	0.0606
22.4	-861	4350	1150	-6.1	7.52	0.0628
113	-618	19400	-330	-18.7	8.39	0.0989
128	-632	20200	-300	15.3	8.13	0.1021
164	-859	20000	-335	20.3	8.09	0.0871
169	-955	17600	-265	29.8	7.96	0.1027
12.8	25	4640	160	24.8	8.13	0.0838
9.15	-20	3250	140	22.8	8.16	0.0693
10	-35	3600	64.9	20.3 -		0.0734
14.4	69.9	6590	1200	43.8	7.85	0.0907
75.4	-315	17200	-39.9	1540	8.17	0.1523
79.4	-335	16500	110	755	8.44	0.1335
84.4	-684	18700	500	309 -		0.1139
122	-836	21500	1480	595	7.8	0.1686
77.4	-350	21100	79.9	795	7.81	0.2064
82.9	-355	22600	650	1350	7.97	0.2216
95.9	-656	21300	639	830	8.11	0.1879
111	-831	24400	1750	1010	7.9	0.2132
25.9	-9.99	12500	74.9	13.8	8.19	0.1008
27.7	20	13200	140	13.8	8.24	0.0827
32.3	-80	13400	205	8.3	8.06	0.0899
40.3	59.9	15500	1420	51.3	7.8	0.107
166	-155	26500	-325	1760	8.03	0.2803
185	-94.8	29000	-235	1740	7.85	0.2459
182	-400	27500	-400	1710	7.85	0.2701
164	-890	29400	-84.9	1140	7.74	0.2836
40.9	-384	8890	-150	647	8.11	0.1408
66.3	-579	14000	-190	1110	7.92	0.0819
89.3	-789	14500	-150	930	7.89	0.1017
74.4	-1030	13000	465	540	7.86	0.1036
36.9	-658	9340	-310	-28.1	8.18	0.0155
38.5	-658	9290	-300	-28	8.02	0.0114
50.9	-866	10300	-150	-32.2	8.08	0.0161
52.4	-1040	8990	210	-31.8	8.04	0.0167
0.649	-49.9	849	150	11.3	8.16	0.0392
0.699	5	1200	195	14.3	8.17	0.0477
0.499	-54.9	1350	165	8.79	8.04	0.057
1.45	-130	2750	1010	22.8	7.41	0.0462

Sample	Solution T	Alkalinity mg/L as C	Cl mg/L	SO4 mg/L	Al mg/L	Ca mg/L	K mg/L
EXP2 766 Clay	H2O	25	340	81	2.6	7.97	37.9
EXP2 766 Clay	NH4Ac	31,900	71 < 2		0.004	185	65.6
EXP2 766 Clay	HOAc	< 2	7 < 2		6.22	1067	4.3
EXP2 766 Clay	HCl	< 2	2800 < 2		21.5	50.4	5.78
EXP2 1924 Clay	H2O	50	660	76	0.016	16.4	22.6
EXP2 1924 Clay	NH4Ac	30,000	69 < 2		0.004	232	52.6
EXP2 1924 Clay	HOAc	< 2	6	4	4.33	672	2.56
EXP2 1924 Clay	HCl	< 2	3000 < 2		15	41	4.35

Li mg/L	Mg mg/L	Na mg/L	Si mg/L	Sr mg/L	mass loss g
1.49	12.3	202	23	2.26	
0.292	4.67	41.9	3.35	16.3	
0.935	18	5.97	8.53	9.86	
1.49	22.4	0.87	25.6	0.651	0.7997
1.02	0.369	318	3.95	5.98	
0.224	3.92	52.2	3.67	28.7	
0.629	10.2	8.82	4.65	7.7	
1.31	17.9	0.96	23.7	0.565	0.7507

Sample	Sample Type	Date	Li (mg/L)	Na (mg/L)	K (mg/L)	Ca (mg/L)	Mg (mg/L)
CV9W	cs	2/24/2010	0.06	27.26	1.09	83.67	6.31
CV9W	cs	5/21/2010	0.06	24.09	0.98	59.71	4.08
CV9W	cs	5/20/2011	0.08	28.55	1.02	63.98	4.08
Big Springs	cs	2/24/2010	0.02	33.47	6.63	19.77	2.2
Big Springs	cs	5/21/2010	0.02	30.52	6.32	18.17	2.35
Big Springs	cs	5/20/2011	0.02	27.26	5.81	16.72	2.08
CV25W	gw	5/25/2011	1.72	219.76	42.58	5.38	0.8
CV25W	gw	5/18/2012	1.4	213.82	40.24	4.08	0.7
FWW	gw	5/26/2011	0.13	100.75	10.57	91.55	18.51
FWW	gw	2/23/2010	0.11	107.71	11.43	89.42	19.31
FWW	gw	5/19/2010	0.11	85.69	10.08	81.14	17.18
FWW	gw	5/16/2012	0.12	104.5	10.73	93.6	19.14
CV27W	gw	5/26/2011	1.92	398.22	40.53	158.8	25.57
CV27W	gw	5/18/2012	2.07	410.81	43.43	167.86	24.56
CV30W	gw	5/26/2011	0.11	87.73	5.6	47.77	26.16
CV30W	gw	5/15/2012	0.09	121.31	15.31	20.04	26.63
CV2W	hs	5/22/2011	1.98	311.48	22.5	48.51	2.78
CV2W	hs	2/22/2010	1.7	315.61	18.73	46.98	2.7
CV2W	hs	5/16/2010	1.63	40.16	19.47	42.57	2.79
CV2W	hs	5/14/2012	1.75	310.5	22.28	50.25	2.8
NHW	hs	5/22/2011	41.12	10118.45	836.67	625.3	61.3
NHW	hs	5/19/2010	40.83	9052.64	838.03	569.55	62.96
NHW	hs	5/16/2012	38.97	10346.92	837.43	579.94	65.2
NHW	hs	5/24/2014	37.74	8865.2	796.3	496.52	63.4
CV29W	hs	5/26/2011	36.46	8897.1	715.14	115.2	101.3
CV29W	hs	5/15/2012	29.49	8557.97	690.53	114.87	102.6
CV29W	hs	5/23/2014	35.2	8116.72	695.39	103.68	104.2
CV1W	snow	2/21/2010	0	0.4	0.14	0.48	0
	Brine	10/4/2018	249	44590	5924	358	278
	Brine	10/4/2018	123	24320	2822	456	278
	Brine	10/4/2018	175	33420	3667	582	340
	Brine	10/4/2018	462	73350	9813	455	440
	Brine	10/4/2018	80	17110	1828	446	219
	Brine	10/4/2018	88	17980	2345	323	179
	Brine	10/4/2018	241	51700	5966	543	337
	Brine	10/4/2018	134	30380	3578	387	220
	Brine	10/4/2018	177	32740	4280	394	279
	Brine	10/4/2018	63	13290	1306	865	339
	Brine	10/4/2018	98	19090	2464	260	170
	Brine	10/4/2018	80	16050	1706	491	250
	Brine	10/4/2018	69	20300	1923	370	137
	Brine	10/4/2018	102	91070	2918	589	172
	Brine	10/4/2018	87	21750	1730	363	231
	Brine	10/10/2018	97	24280	2786	215	96
	Brine	10/10/2018	97	20990	2453	185	117
	Brine	10/10/2018	109	27500	2824	133	82
	Brine	10/10/2018	63	18640	1638	235	90
	Brine	10/10/2018	96	34040	2559	379	136
	Brine	10/10/2018	108	35820	3063	265	128

Brine	10/10/2018	69	15340	1419	564	192
Brine	10/10/2018	47	9895	962	527	191
Brine	10/10/2018	59	16390	1535	317	86
Brine	10/10/2018	56	19010	1639	356	74
Brine	10/10/2018	53	18120	1450	356	81
Brine	10/10/2018	85	33250	2416	262	113
Brine	10/10/2018	49	13410	1017	446	200
Brine	10/18/2018	162	47100	4280	275	174
Brine	10/18/2018	68	20670	1700	117	68
Brine	10/18/2018	77	16730	1899	322	161
Brine	10/18/2018	89	20540	1826	652	305
Brine	10/18/2018	133	31320	3493	239	145
Brine	10/18/2018	280	53640	6507	288	272
Brine	10/18/2018	293	55890	6602	397	358
Brine	10/18/2018	199	52140	4970	262	162
Brine	10/18/2018	100	22600	2129	344	247
Brine	10/18/2018	124	93720	3182	665	206
Brine	10/18/2018	80	18740	1679	284	191

a cs – coldspring; hs – hotspring; gw – groundwater. Note that brine locations are confidential.

SO4 (mg/L) Cl (mg/L) Alkalinity (mg/L)

150.38	18.98	122
109.82	13.52	115.9
113.29	11.77	109.8
24.33	22.18	73.2
22.37	20.44	79.3
0.54	21.5	91.5
4.55	214.31	183
3.75	205.6	170.8
2.6	65.8	73.2
91.08	251.97	73.2
3.34	64.63	79.3
2.9	66.7	85.4
40.2	547.73	79.3
29.65	934.73	85.4
4.71	2.4	82.96
167.58	64.09	158.6
511.2	51.6	292.8
506.21	52.73	109.8
0	53.79	305
79.2	9.91	305
715.87	15714.04	97.6
435.08	16937.52	122
1331.62	17256.57	274.5
1015.3	16583.6	146.4
679.71	15846.3	146.4
725.6	15192.51	122
754.3	15532.6	109.8
0.23	0.31	12.2
16719	79200	404
5631	44700	562
8289	62000	306
32070	134800	223
3228	39800	626
6183	32500	590
14778	96000	318
8664	52100	435
7668	59700	536
2034	27800	116
6813	35100	664
3702	29500	141
4278	35700	435
7269	172600	25
5172	37400	436
6378	42400	392
6903	37900	376
7515	46900	292
4083	32600	536
5772	64900	351
7230	63800	325

3495	28600	109
2712	18200	120
2832	30000	434
2754	34300	426
2862	32400	436
6159	60400	283
2295	60300	313
10326	76300	200
4566	29200	348
5175	26700	518
2721	35100	261
10380	48600	350
18330	88400	209
18198	93700	187
13191	85100	215
6201	36900	425
7725	159800	21
3729	29500	518

Sample	Li	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O
Weight Percent (%)								
EXP1 109.	0.044	54.8	14.2	4.51	4.19	5.46	1.59	4.45
EXP1 209.	0.029	52.9	14.1	4.63	3.29	6.89	1.49	4.85
EXP1 304.	0.024	56.9	14.3	4.14	3.02	4.69	2.2	4.62
EXP1 327.	0.015	70.1	11.4	1.94	0.5	1.2	3.22	5.91
EXP1 386.	0.035	67.4	11.7	1.45	1.4	2.65	3.28	5.19
EXP1 402.	0.075	46.9	11.5	3.79	3.62	8.28	4.05	5.66
EXP1 502.	0.03	53.5	15.2	4.92	2.77	3.74	2.96	4.37
EXP1 609.	0.088	49.5	12.1	3.77	3.69	7.33	2.78	6.18
EXP1 621.	0.01	72.1	11.9	0.91	0.11	0.55	4.15	5.84
EXP1 706.	0.035	53.8	14.6	4.53	2.49	3.98	3.4	4.97
EXP1 806.	0.074	48.9	13.4	4.93	3.35	6.11	3.19	4.68
EXP1 904.	0.04	51.4	13.9	4.82	2.89	5.47	3.18	4.21
EXP1 1008.		54.2	14.3	5.12	3.08	2.98	3.15	4.65
EXP1 1106.	0.028	51.5	13.7	4.51	2.57	5.53	3.1	4.43
EXP1 1129.	0.014	69.1	12	1.27	0.41	1.35	4.64	4.55
EXP1 1208.	0.037	41.2	11	3.58	2.66	14.4	3.08	3.27
EXP1 1298.	0.026	64.2	11.2	1.29	0.8	3.38	4.93	4.11
EXP1 1308.	0.052	50.5	14.2	4.53	2.7	5.01	3.84	4.97
EXP1 1404.	0.13	47.1	9.56	3.08	4.45	9.48	4.24	3.02
EXP1 1502.	0.071	50.7	13.8	4.57	2.81	4.71	3.44	5.91
EXP1 1608.	0.069	51.2	14	4.72	2.57	4.17	4.09	5.7
EXP1 1704.	0.094	49.2	12.4	4.25	3.72	5.99	3.28	5.91
EXP1 1807.	0.11	45.2	11.7	4.09	3.93	9.38	3.54	4.9
EXP1 1902.	0.13	50.4	13.8	4.77	2.91	4.22	4.83	5.35
EXP1 1957.	0.029	4.53	0.87	0.3	0.56	0.69	48.4	0.42
EXP1 2004.	0.1	41.9	11.1	3.78	4.51	8.97	4.26	5.26
EXP1 2102.	0.097	47.3	13.9	4.75	3.07	5.46	3.86	6.81
EXP1 2208.	0.1	43.5	12.8	4.47	4.98	6.27	2.89	6.67
EXP1 2308.	0.11	44.9	13.2	4.62	5.77	6.44	1.92	7.48
EXP1 2370.	0.091	52.2	15.1	4.4	3.84	4.78	1.66	7.95
EXP2 100.	0.005	48	10.5	1.62	0.93	16.3	3.28	3.65
EXP2 160.	0.028	50.5	17.4	6.12	2.85	4.39	1.91	4.83
EXP2 224.	0.037	49.8	13	4.25	2.7	7.25	3.64	4.34
EXP2 354.	0.081	41.6	12.2	4.27	3.78	8.34	4.78	5.17
EXP2 468.	0.064	46.2	12.6	4.32	3.48	6.65	4.18	5.21
EXP2 507.	0.068	41.7	10.7	3.64	3.53	11	4.07	4.5
EXP2 606.	0.018	68.1	10.9	1.57	0.14	0.61	5.84	5.28
EXP2 616.	0.096	33.3	6.78	2.43	5.85	16.4	4.64	2.74
EXP2 730.	0.008	71.6	12	1.14	0.24	1.29	3.39	5.12
EXP2 766.	0.17	42	8.98	3.09	6.01	12.1	3.39	3.91
EXP2 854.	0.1	45.2	10.7	3.86	4.02	9.75	3.73	3.67
EXP2 894.	0.021	69.7	11.8	1.08	0.54	1.39	4.36	5.06
EXP2 907.	0.044	52.4	14	4.1	2.55	4.89	3.85	4.83
EXP2 914.	0.019	57.6	10.2	1.23	0.82	9.82	3.66	4.18
EXP2 1002.	0.055	50	13.6	4.22	3.47	6.67	3.36	4.76
EXP2 1084.	0.008	72.9	11.8	0.91	0.01	0.42	2.53	5.6
EXP2 1118.	0.062	43.4	11	3.54	3.24	12	2.95	4.21
EXP2 1166.	0.022	69.8	12.1	1.57	0.5	1.64	3.64	5.08

EXP2 120	0.06	47	13.4	4.74	3.25	6.75	3.74	4.81
EXP2 130	0.058	45.7	13.6	4.83	3.59	6.58	4.22	4.69
EXP2 135	0.002	---	---	---	---	---	---	---
EXP2 141	0.067	43	12.8	4.68	4.11	8.3	4.27	4.47
EXP2 150	0.075	47.1	12	3.81	3.34	6.99	4.19	4.69
EXP2 160	0.041	46.5	12.7	4.29	3.25	7.18	4.64	3.98
EXP2 170	0.11	46.9	11.7	3.84	3.74	6.65	4.86	3.82
EXP2 175	0.004	1.77	0.43	0.11	0.34	< 0.01	49	0.15
EXP2 180	0.078	44.9	11	3.58	3.34	8.63	4.66	3.54
EXP2 192	0.12	43.3	10.1	3.02	4.05	9.68	4.58	3.46
EXP2 193	0.024	66	11.3	1.27	1.03	2.24	5.79	4.17
EXP2 196	0.01	69.3	11.5	1.14	0.19	1.15	6.12	4.42
EXP2 200	0.11	45.3	12.9	4.31	3.51	6.23	4.08	6.14
EXP2 205	0.026	68.2	11.1	1.68	0.12	0.59	5.93	4.5
EXP2 210	0.098	45.6	13.4	4.31	3.11	6.41	3.85	6.99
EXP2 220	0.11	47.3	12.2	4.34	3.47	6.38	3.54	7.34
EXP2 230	0.084	44.6	12.1	3.87	3.93	8.84	3.17	7.06
EXP2 240	0.13	43.8	12	4.08	4.81	7.51	3.18	6.77
EXP2 250	0.1	44.9	12.9	4.34	4.46	8.07	3.06	6.32
EXP2 260	0.12	47.8	14.3	4.95	3.33	5.76	3.31	7.46
EXP2 270	0.1	36.7	8.6	2.9	11.9	10.7	2.2	3.94
EXP2 325	0.029	61.7	15.4	3.58	1.2	1.83	3.27	8.04
EXP2 327	0.017	60.4	12.6	1.57	0.38	3.73	3.89	6.7
EXP3 104	0.077	33.3	8.89	2.93	3.71	12.9	5.03	3.64
EXP3 204	0.1	31.9	7.76	2.56	4.71	15.8	4.63	3.54
EXP3 272	0.023	66.7	11.4	2.11	0.52	0.83	5.22	5.22
EXP3 304	0.1	43.6	10.9	3.37	5.45	7.61	4.56	4.65
EXP3 324	0.007	74.5	11.6	1.01	0.32	0.76	3.27	5.39
EXP3 402	0.047	51	14	4.54	3.25	3.3	4.29	5.36
EXP3 504	0.12	45.2	11.5	4.02	4.3	6.96	3.97	5.09
EXP3 606	0.081	46.7	12.3	4.4	3.33	7.74	3.61	5.33
EXP3 704	0.087	47.5	13.2	4.83	3.47	6.48	3.82	4.04
EXP3 806	0.044	51.5	14.4	5.22	3	3.42	3.55	4.5
EXP3 902	0.069	45.2	10.7	3.72	2.91	11.2	3.23	3.42
EXP3 100	0.076	49.9	13.9	4.51	3.37	4.8	3.32	4.5
EXP3 110	0.1	48.7	12.7	3.65	3.16	5.91	3.87	4.92
EXP3 116	0.013	68.6	11.1	1.71	0.14	0.67	5.1	4.64
EXP3 120	0.13	43.8	10.2	3.7	4.67	10.7	2.66	3.84
EXP3 124	0.009	73.4	12	0.72	0.1	0.42	4.39	4.77
EXP3 130	0.065	51.1	14.2	4.58	2.81	5.26	2.51	7.23
EXP3 140	0.093	50.3	13.7	4.43	3.37	5.12	2.44	7.78
EXP3 150	0.13	46.8	12	4.17	4.44	7.71	2.15	6.82
EXP3 160	0.13	48.3	12.3	4.25	4.04	8.16	2.28	6.18
EXP3 170	0.11	49.5	13.8	4.92	4.29	5.47	2.07	7.39
EXP4 667	0.008	69.9	11.9	1.05	0.28	1.26	3.68	5.23
EXP4 115	0.046	51.9	14.9	4.83	2.77	2.85	4.19	4.8
EXP4 170	0.061	50.7	13.7	4.61	2.48	5.17	4.39	4.32
EXP4 181	0.072	48.5	13.8	4.75	3.13	5.98	3.54	6.03
EXP4 190	0.066	48.6	14.1	4.66	2.72	3.83	5.15	6.19
EXP4 200	0.073	48.1	14.1	4.84	2.64	3.93	5.54	4.75

EXP4 2100	0.014	3.91	0.83	0.31	1.02	1.42	44.6	0.29
EXP4 2150	0.005	1.54	0.3	0.1	0.12	0.15	49.8	0.13
EXP4 2170	0.062	48.2	13.3	4.61	3.06	4.36	5.67	5.03
EXP4 2200	0.14	45.7	11.4	3.83	4.71	5.95	4.3	5.28
EXP4 2300	0.078	47.3	13.3	4.66	2.92	4.37	4.29	7.1
EXP4 2400	0.078	45.3	12.9	4.5	3.59	5.06	4.45	6.98
EXP4 2500	0.088	48.9	14	4.6	2.37	3.02	4.9	7.94
EXP4 2600	0.085	48.1	13.3	4.26	3.25	4.93	6.15	4.91
EXP4 2700	0.14	42.1	12	3.97	7.36	6.4	3.67	4.96
EXP4 2800	0.14	49.2	14.2	4.65	3.8	4.36	5.15	5.23
EXP4 2900	0.098	41.4	14.3	4.67	6.92	5.98	3.81	4.29
EXP4 3000	0.006	73.1	12.3	1.05	0.14	1.28	3.02	5.6
EXP5 1160	0.1	35.5	8.54	3.09	6.18	14.1	4.99	3.53
EXP5 2160	0.066	46.9	13.4	4.72	4.66	5.85	3.52	3.52
EXP5 2280	0.028	64.7	10.6	1.79	1.12	3.72	4.18	4.99
EXP5 2750	0.006	75.2	11.4	0.93	0.12	0.64	3.29	5.28
EXP5 3160	0.081	46.2	12.6	4.51	4.11	7.75	3.26	4.01
EXP5 4180	0.063	49	13.6	4.51	4.08	5.2	4.38	4.84
EXP5 4630	0.025	68.2	12.1	1.34	0.68	1.94	4.34	5.25
EXP5 5160	0.063	47.4	13.3	4.5	3.27	7.53	4.02	5.06
EXP5 6160	0.073	48.3	13.6	4.85	3.61	6.82	3.43	5.21
EXP5 7160	0.052	52.3	14.3	4.98	4.05	5.16	2.62	4.91
EXP5 7380	0.01	71.9	11.9	1.04	0.25	0.88	3.75	5.43
EXP5 8130	0.13	47.1	11.5	3.91	5.5	10.2	2.41	3.81
EXP5 8830	0.01	69.8	11.3	1.83	0.12	0.65	4.03	5.18
EXP5 9120	0.13	48.3	11.4	4.29	5.36	9.27	2.41	4.22
EXP5 9380	0.017	65.7	11.6	1.35	1.91	2.62	3.58	4.6
EXP5 10100	0.044	48.7	14.4	5.17	3.71	7.64	1.84	6.21
EXP5 11200	0.036	51.6	14.5	5.25	3.07	6.5	2.21	5.58
EXP5 11500	0.007	61.3	14.5	1.49	0.5	1.14	4.88	5.99
EXP5 12100	0.04	51.3	12.7	4.87	3.42	8.64	1.89	4.69
EXP5 12800	0.013	70.4	12.1	1.06	0.51	0.88	3.74	4.92
EXP5 13100	0.045	56.4	12.6	3.05	2.74	7.16	2.98	3.99
EXP5 17500	0.012	71.1	12.3	1.19	0.41	0.61	3.71	5.15
EXP5 18000	0.023	64.3	11.7	1.2	0.61	4.59	3.79	4.44

a Samples used in experimental leaches

TiO2	P2O5	MnO	Cr2O3	V2O5	LOI	Sum	Li ppm
0.56	0.17	0.09 < 0.01		0.02		9.89	99.9 440
0.59	0.18	0.13	0.01	0.01		10.6	99.7 290
0.55	0.16	0.07 < 0.01		0.02		9.3	99.9 240
0.14	0.02	0.04 < 0.01		< 0.01		5.72	100.2 150
0.18	0.03	0.04 < 0.01		< 0.01		6.48	99.9 350
0.48	0.13	0.11 < 0.01		0.01		16.5	101.1 750
0.57	0.17	0.09 < 0.01		0.02		11	99.2 300
0.46	0.1	0.08 < 0.01		0.02		14	100 880
0.06 < 0.01		0.06 < 0.01		< 0.01		5.33	101 100
0.56	0.13	0.08 < 0.01		0.02		11.6	100.2 350
0.54	0.13	0.1 < 0.01		0.02		14.3	99.8 740
0.6	0.14	0.1 < 0.01		0.02		12.8	99.5 400
0.65	0.19	0.07 < 0.01		0.02		10.8	99.3 -
0.58	0.19	0.16 < 0.01		0.01		13.1	99.4 280
0.15	0.03	0.04 < 0.01		< 0.01		6.7	100.2 140
0.44	0.17	0.26 < 0.01		0.01		20.7	100.8 370
0.15	0.03	0.09 < 0.01		< 0.01		8.99	99.2 260
0.53	0.13	0.08 < 0.01		0.02		13.4	99.9 520
0.35	0.08	0.09 < 0.01		0.01		19.2	100.7 1300
0.49	0.11	0.08 < 0.01		0.02		12.9	99.5 710
0.51	0.15	0.11 < 0.01		0.02		12.8	100 690
0.49	0.11	0.08 < 0.01		0.02		14	99.4 940
0.49	0.11	0.08 < 0.01		0.02		16	99.4 1100
0.55	0.12	0.1 < 0.01		0.01		12.7	99.7 1300
0.035 < 0.02		0.008 < 0.004		< 0.008	---	---	290
0.44	0.11	0.08 < 0.01		0.02		19.4	99.8 1000
0.56	0.18	0.1	0.01	0.01		14.7	100.6 970
0.51	0.37	0.08 < 0.01		0.01		17.2	99.7 1000
0.52	0.09	0.1 < 0.01		0.01		13.9	98.9 1100
0.62	0.08	0.09 < 0.01		0.01		8.37	99.1 910
0.33	0.08	0.12	0.01 < 0.01			15.7	100.5 50
0.7	0.12	0.07	0.01	0.01		10.6	99.6 280
0.57	0.11	0.08	0.01 < 0.01			14.6	100.4 370
0.47	0.15	0.09 < 0.01		0.01		19.7	100.6 810
0.5	0.14	0.11 < 0.01		0.02		16.9	100.2 640
0.43	0.14	0.16	0.01	0.01		19.4	99.3 680
0.11 < 0.01		0.02 < 0.01		< 0.01		7.41	100 180
0.25	0.09	0.08 < 0.01		0.01		27.3	99.9 960
0.1	0.02	0.02	0.03 < 0.01			4.03	99 80
0.32	0.08	0.1 < 0.01		0.01		19.8	99.8 1700
0.4	0.09	0.09	0.01	0.01		18.4	99.9 1000
0.12	0.02	0.02 < 0.01		< 0.01		6.72	100.8 210
0.53	0.1	0.05	0.01 < 0.01			13	100.4 440
0.13	0.04	0.05	0.02 < 0.01			13.2	101 190
0.52	0.14	0.05	0.01	0.01		13.9	100.7 550
0.06 < 0.01		0.03	0.01 < 0.01			5.49	99.7 80
0.37	0.16	0.09	0.01	0.01		17.7	98.7 620
0.15	0.04	0.06	0.02 < 0.01			4.94	99.6 220

0.52	0.17	0.08	0.01	0.01	15.8	100.3	600
0.55	0.15	0.09 < 0.01		0.02	16.8	100.8	580
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0.5	0.19	0.1 < 0.01		0.02	18.7	101.2	670
0.47	0.14	0.07	0.01	0.01	17.7	100.6	750
0.5	0.14	0.07 < 0.01		0.01	17.9	101.2	410
0.46	0.1	0.07	0.01	0.02	18.6	100.8	1100
0.02 < 0.01	< 0.01	< 0.01	< 0.01		49.1	100.8	40
0.39	0.12	0.07	0.01 < 0.01		19.4	99.7	780
0.37	0.1	0.07 < 0.01		0.01	21.6	100.3	1200
0.12	0.03	0.04	0.01 < 0.01		8.42	100.4	240
0.07	0.01	0.05	0.02 < 0.01		7.18	101.1	100
0.46	0.1	0.08 < 0.01		0.01	16.1	99.2	1100
0.12	0.01	0.04 < 0.01	< 0.01		7.07	99.4	260
0.5	0.1	0.08 < 0.01		0.02	15.9	100.2	980
0.51	0.11	0.09 < 0.01	< 0.01		15.4	100.7	1100
0.49	0.09	0.08 < 0.01		0.01	16.7	100.9	840
0.45	0.1	0.08	0.02	0.01	17.3	100.1	1300
0.53	0.1	0.07	0.01	0.02	16.3	101.1	1000
0.56	0.09	0.09	0.01	0.01	13	100.7	1200
0.39	0.06	0.06 < 0.01	< 0.01		23.4	100.9	1000
0.52	0.15	0.03	0.01	0.01	4.39	100.1	290
0.28	0.04	0.12 < 0.01	< 0.01		10.7	100.5	170
0.32	0.13	0.11 < 0.01		0.01	22.3	93.3	770
0.27	0.13	0.1 < 0.01	< 0.01		26.7	98.1	1000
0.19	0.03	0.04 < 0.01	< 0.01		8.01	100.2	230
0.38	0.15	0.11 < 0.01		0.01	19	99.8	1000
0.09	0.01	0.02	0.02 < 0.01		3.67	100.8	70
0.5	0.16	0.08 < 0.01		0.02	13.4	100	470
0.39	0.11	0.1 < 0.01		0.02	18.2	99.9	1200
0.5	0.16	0.1 < 0.01		0.02	15.7	99.9	810
0.53	0.14	0.12 < 0.01		0.02	15.7	99.8	870
0.6	0.17	0.09 < 0.01		0.02	13.1	99.6	440
0.4	0.11	0.18 < 0.01		0.02	19	100.2	690
0.5	0.17	0.1 < 0.01		0.02	14.1	99.2	760
0.45	0.12	0.1 < 0.01		0.02	16.4	100	1000
0.11	0.01	0.05 < 0.01	< 0.01		6.94	99	130
0.39	0.15	0.09 < 0.01		0.02	18.9	99.1	1300
0.08 < 0.01		0.07	0.01 < 0.01		4.81	100.8	90
0.51	0.13	0.1 < 0.01		0.01	11.3	99.8	650
0.5	0.12	0.11 < 0.01		0.02	11.3	99.2	930
0.45	0.1	0.12 < 0.01		0.02	12.9	97.7	1300
0.47	0.1	0.08 < 0.01		0.02	12.7	98.9	1300
0.54	0.11	0.12 < 0.01		0.03	11.2	99.4	1100
0.12	0.01	0.04 < 0.01	< 0.01		5.64	99.1	80
0.57	0.14	0.1 < 0.01		0.02	12.1	99.2	460
0.55	0.17	0.08 < 0.01		0.02	13.6	99.7	610
0.54	0.12	0.09 < 0.01		0.02	14	100.6	720
0.52	0.11	0.11 < 0.01		0.01	14.9	101	660
0.53	0.12	0.1 < 0.01		0.01	16.3	100.9	730

0.033 < 0.02		0.013 < 0.004	< 0.008	---	---	140	
0.011 < 0.02		0.003 < 0.004	< 0.008	---	---	50	
0.56	0.13	0.09 < 0.01	0.02	15.7	100.8	620	
0.44	0.12	0.1 < 0.01	0.02	17.5	99.3	1400	
0.55	0.26	0.1 < 0.01	0.01	16.2	101.1	780	
0.51	0.11	0.1 < 0.01	0.02	16.3	99.8	780	
0.55	0.25	0.09 < 0.01	0.02	13	99.7	880	
0.49	0.25	0.11 < 0.01	0.02	14.4	100.1	850	
0.46	0.06	0.1 < 0.01	0.02	18.8	100	1400	
0.57	0.14	0.08	0.03	0.01	12.8	100.2	1400
0.52	0.14	0.1	0.01	0.01	18.1	100.2	980
0.08	0.01	0.06	0.02 < 0.01	3.75	100.4	60	
0.34	0.13	0.08 < 0.01	0.02	22.9	99.3	1000	
0.54	0.2	0.05 < 0.01	0.01	15.9	99.4	660	
0.15	0.04	0.05 < 0.01	< 0.01	9.04	100.4	280	
0.09 < 0.01		0.01	0.03 < 0.01	3.11	100.2	60	
0.47	0.15	0.09 < 0.01	< 0.01	16.1	99.3	810	
0.48	0.16	0.08 < 0.01	< 0.01	14.8	101.2	630	
0.13	0.03	0.04	0.01 < 0.01	6.93	101	250	
0.51	0.15	0.07 < 0.01	0.02	15.1	100.9	630	
0.54	0.17	0.08 < 0.01	0.01	13.9	100.5	730	
0.61	0.15	0.06 < 0.01	< 0.01	10.9	100	520	
0.1	0.02	0.01 < 0.01	< 0.01	5.35	100.7	100	
0.39	0.09	0.09 < 0.01	0.01	15.4	100.4	1300	
0.12	0.01	0.03 < 0.01	< 0.01	5.92	99	100	
0.43	0.11	0.11 < 0.01	0.02	13.9	99.8	1300	
0.17	0.03	0.08 < 0.01	< 0.01	8.02	99.6	170	
0.59	0.13	0.1 < 0.01	0.01	12.2	100.7	440	
0.63	0.11	0.06	0.01	0.02	10.7	100.3	360
0.15	0.02	0.02	0.02 < 0.01	10.1	100.1	70	
0.66	0.14	0.11	0.01	0.02	11.8	100.3	400
0.13	0.02	0.06	0.01 < 0.01	5.35	99.2	130	
0.42	0.1	0.07 < 0.01	0.02	11	100.5	450	
0.14	0.02	0.07 < 0.01	< 0.01	5.22	99.9	120	
0.19	0.03	0.13	0.01 < 0.01	9.68	100.6	230	