

Water Delta 18-O analysis: CO2 - H2O equilibration method

Date	15.08.2011						
Analyst	ADM						
Equilibration vessel set	A1A						
Sample volume/mL	2.4						
P(CO2)/mb	880	d18-O CO2 (VSMOW)	9.510				
beta	0.005	Equilibration T/ deg C	21				
Internal Standards							
Standard	d 18-O H2O	Run #	Port	d 18-O CO2	alpha standards are averages from each bank		
NTW	-7.250	63060	A2	34.086	1.041767		
NTW	-7.250	63065	A3	34.009	1.041689		
NTW	-7.250	63069	A4	34.069	1.041750	1.041735	0.000041
NTW	-7.250	63070	A2	34.152	1.041834		
NTW	-7.250	63077	A3	34.129	1.041810		
NTW	-7.250	63080	A4	34.097	1.041778	1.041807	0.000028
NTW	-7.250	63085	A2	33.899	1.041577		
NTW	-7.250	63087	A3	33.960	1.041639		
NTW	-7.250	63091	A4	33.906	1.041585	1.041600	0.000034
NTW	-7.250	63094	A2	34.143	1.041825		
NTW	-7.250	63099	A3	34.082	1.041763		
NTW	-7.250	63103	A4	34.078	1.041759	1.041782	0.000037
SAMPLES							
Sample	Port	Equilib. #	MS #	d 18-O (CO2)		d 18-O (H2O)	
				VPDB	VSMOW	VSMOW	VSMOW-SLAP
NTW	A1	63058	63058	3.048	34.002	-7.301	-7.288
NTW	A2	63059	63059	3.157	34.114	-7.192	-7.180
NTW	A3	63060	63060	3.129	34.086	-7.220	-7.208
NTW	A4	63061	63061	3.065	34.020	-7.284	-7.271
NTW	A5	63062	63062	3.118	34.074	-7.231	-7.219
NTW	A6	63063	63063	3.098	34.054	-7.251	-7.238
NTW	A7	63064	63064	3.248	34.208	-7.102	-7.090
NTW	A8	63065	63065	3.055	34.009	-7.294	-7.281
NTW	A9	63066	63066	3.159	34.116	-7.190	-7.178
NTW	A10	63067	63067	3.138	34.095	-7.211	-7.199
NTW	A11	63068	63068	3.270	34.231	-7.080	-7.068
NTW	A12	63069	63069	3.113	34.069	-7.236	-7.224
NTW	B1	63070	63070	3.193	34.152	-7.225	-7.213
NTW	B2	63071	63071	n/r			
NTW	B3	63072	63072	n/r			
NTW	B4	63073	63073	n/r			
NTW	B5	63074	63074	n/r			
NTW	B6	63075	63075	n/r			
NTW	B7	63076	63076	2.980	33.932	-7.437	-7.424
NTW	B8	63077	63077	3.171	34.129	-7.247	-7.235
NTW	B9	63078	63078	3.153	34.110	-7.265	-7.253
NTW	B10	63079	63079	3.077	34.032	-7.341	-7.328
NTW	B11	63080	63080	3.140	34.097	-7.278	-7.265
NTW	B12	63081	63081	3.043	33.997	-7.375	-7.362
NTW	C1	63082	63082	3.167	34.125	-7.054	-7.042
NTW	C2	63083	63083	3.157	34.114	-7.064	-7.052
NTW	C3	63084	63084	2.976	33.928	-7.244	-7.232
NTW	C4	63085	63085	2.948	33.899	-7.272	-7.259
NTW	C5	63086	63086	3.246	34.206	-6.975	-6.964
NTW	C6	63087	63087	3.007	33.960	-7.213	-7.201
NTW	C7	63088	63088	3.088	34.043	-7.133	-7.120
NTW	C8	63089	63089	3.065	34.020	-7.156	-7.143
NTW	C9	63090	63090	2.632	33.573	-7.586	-7.573
NTW	C10	63091	63091	2.955	33.906	-7.265	-7.252
NTW	C11	63092	63092	2.926	33.876	-7.294	-7.281
NTW	C12	63093	63093	3.000	33.953	-7.220	-7.208
NTW	D1	63094	63094	3.185	34.143	-7.209	-7.197
NTW	D2	63095	63095	3.064	34.019	-7.330	-7.317
NTW	D3	63096	63096	3.070	34.025	-7.324	-7.311
NTW	D4	63097	63097	3.163	34.121	-7.231	-7.219
NTW	D5	63098	63098	3.157	34.114	-7.237	-7.225
NTW	D6	63099	63099	3.126	34.082	-7.268	-7.255
NTW	D7	63100	63100	3.207	34.166	-7.187	-7.175
NTW	D8	63101	63101	3.043	33.997	-7.350	-7.338
NTW	D9	63102	63102	3.096	34.052	-7.298	-7.285
NTW	D10	63103	63103	3.122	34.078	-7.272	-7.259
NTW	D11	63104	63104	3.116	34.072	-7.278	-7.265
NTW	D12	63105	63105	3.147	34.104	-7.247	-7.234