

**APPENDIX E**  
**OBSIDIAN HYDRATION DATA**

Lab #	Side of sample	Img. No.	Art. Cat. No.	Sub Cat. No.	Site	Unit		Level (cm)	Art Class	Lab Tech Init.	Date	Project	Comments	Hyd rind Meas.	Averaged Meas.	Calibration Multiplier	Calibrated Meas.
OL 1	2	1	4428	1 of 2	CA-SDI-2506	20s	8w	20-30	Deb.	Geo/GR	9/26/07	LV		2.67			
	2	2	4428	1 of 2	CA-SDI-2506	20s	8w	20-30	Deb.	Geo/GR	9/26/07	LV		2.84	2.76	1.03652	2.86
OL 2	2	1	3921	1 of 1	CA-SDI-2507	24s	2w	50-60	Deb.	Geo/GR	9/26/07	LV		1.83	1.83	1.03652	1.90
														n/a		1.03652	
OL 3	1	1	2-1-39	1 of 8	CA-SDI-2508	2s	8w	40-50	Deb	SR/Geo/GR	9/27/07	LV		3.31	3.31	1.03652	3.43
														n/a		1.03652	
OL 4	2	1	2-1-39	2 of 8	CA-SDI-2508	2s	8w	40-50	Deb	SR/Geo/GR	9/27/07	LV		3.30	3.30	1.03652	3.42
														n/a		1.03652	
OL 5	Cr	1	2-1-39	3 of 8	CA-SDI-2508	2s	8w	40-50	Deb	SR/Geo/GR	9/27/07	LV		3.30	3.18	1.03652	3.30
	1a	1	2-1-39	3 of 8	CA-SDI-2508	2s	8w	40-50	Deb	SR/Geo/GR	9/27/07	LV		2.90		1.03652	
	2	1	2-1-39	3 of 8	CA-SDI-2508	2s	8w	40-50	Deb	SR/Geo/GR	9/27/07	LV		3.51		1.03652	
	2b	1	2-1-39	3 of 8	CA-SDI-2508	2s	8w	40-50	Deb	SR/Geo/GR	9/27/07	LV		3.00		1.03652	
	2c	1	2-1-39	3 of 8	CA-SDI-2508	2s	8w	40-50	Deb	SR/Geo/GR	9/27/07	LV		n/a		1.03652	
OL 6	1	1	4643	1 of 1	CA-SDI-2504	12s	0e	0-10	Deb	Geo/GR	9/28/07	LV		2.46	2.46	1.03652	2.55
														n/a		1.03652	
OL 7	2	1	4-1-48	1 of 14	CA-SDI-2508	6s	8w	40-50	Deb	Geo	9/29/07	LV	with coretex on side 2 (obscure)	4.24		1.03652	
	1	1	4-1-48	1 of 14	CA-SDI-2508	6s	8w	40-50	Deb	Geo	9/29/07	LV	with coretex on side 2	2.10		1.03652	
	2	2								Geo/GR	11/3/07	LV		3.47	3.47	1.03652	3.60
OL 8	2	1	4428	2 of 2	CA-SDI-2506	20s	8w	20-30	Deb	Geo/GR	11/3/07	LV		2.00	2.00	1.03652	2.07
	2	2	4428	2 of 2	CA-SDI-2506	20s	8w	20-30	Deb	Geo/GR	11/3/07	LV		2.70	2.65	1.03652	2.75
	1	2								Geo/GR	11/3/07	LV		2.60		1.03652	
OL 9			4459	1 of 1	CA-SDI-2506	20s	8w	60-70	Deb	Geo	9/29/07	LV	Bad Slide	n/a		1.03652	
OL 10	1	1	1350	1 of 1	VS-766C	14s	2w	90-100	Deb	Geo	9/29/07	LV		5.82		1.03652	
	A	1	1350	1 of 1	VS-766C	14s	2w	90-100	Deb	Geo/GR	11/3/07	LV	Small flat edge at tip of angle	4.90	4.90	1.03652	5.08
OL 11	1	1	5163	1 of 1	CA-SDI-2506	20s	4w	70-80	Deb	Geo/GR	11/3/07	LV		5.30	5.30	1.03652	5.49

Lab #	sample	Img. No.	Art. Cat. No.	Sub Cat. No.	Site	Unit		Level (cm)	Art Class	Lab Tech Init.	Date	Project	Comments	Hyd rind Meas.	Averaged Meas.	Calibration Multiplier	Calibrated Meas.
	2	1	5163	1 of 1	CA-SDI-2506	20s	4w	70-80	Deb					4.30	4.30	1.03652	4.46
OL 12	1	1	5306	1 of 1	CA-SDI-2506	22s	6w	40-50	Deb	Geo	9/29/07	LV	3 trys to get a cut sample	2.10		1.03652	
	1	2	5306	1 of 1	CA-SDI-2506	22s	6w	40-50	Deb	Geo/GR	11/3/07	LV		2.50	2.50	1.03652	2.59
OL 13	2	1	4478	1 of 6	CA-SDI-2506	18s	8w	10-20	Deb	Geo	10/1/07	LV		2.80		1.03652	
	2	2	4478	1 of 6	CA-SDI-2506	18s	8w	10-20	Deb	Geo/GR	11/3/07	LV		2.00	2.00	1.03652	2.07
OL 14	2	1	4526	1 of 1	CA-SDI-2506	18s	8w	40-50	Deb	Geo/GR	11/3/07	LV		3.68	3.69	1.03652	3.82
	1	1	4526	1 of 1	CA-SDI-2506	18s	8w	40-50	Deb	Geo/GR	11/3/07	LV		3.70		1.03652	
OL 15	2	1	1-1-45	1 of 20	CA-SDI-2508	0n	10w	30-40	Deb	Geo/GR	11/3/07	LV		2.84	2.84	1.03652	2.94
	1	1	1-1-45	1 of 20	CA-SDI-2508	0n	10w	30-40	Deb	Geo/GR	11/3/07	LV		2.84		1.03652	
OL 16	1	1	0256	1 of 17	CA-SDI-2508	6s	8w	30-40	Deb	Geo/GR	11/3/07	LV	3 sides Non-hyd side opp. Of curved side	3.00	3.03	1.03652	3.14
	2	1	0256	1 of 17	CA-SDI-2508	6s	8w	30-40	Deb	Geo/GR	11/3/07	LV		3.06		1.03652	
OL 17	1	1	4767	1 of 2	VS-766-C	14s	6w	80-90	Deb	Geo/GR	11/3/07	LV		1.83	1.83	1.03652	1.90
														n/a		1.03652	
OL 18	2	1	4724	1 of 1	VS-766-C	8s	12w	60-70	Deb	Geo	10/1/07	LV		2.48		1.03652	
	1	1	4724	1 of 1	VS-766-C	8s	12w	60-70	Deb	Geo/GR	11/3/07			2.06	2.26	1.03652	2.34
	2	2	4724	1 of 1	VS-766-C	8s	12w	60-70	Deb	Geo/GR	11/3/07			2.45		1.03652	
OL 19	2	1	4291	1 of 1	CA-SDI-2506	20s	0e	30-40	tool	Geo/GR	11/3/07	LV	Bifacial flake-tool (Dark/opaque)	2.61	2.61	1.03652	2.71
OL 20	2	1	0220	1 of 7	CA-SDI-2508	0s	8w	0-10	Deb	Geo/GR	11/3/07	LV		2.83	2.83	1.03652	2.93
	1	1	0220	1 of 7	CA-SDI-2508	0s	8w	0-10	Deb	Geo/GR	11/3/07			3.30	3.30	1.03652	3.42
OL 21	1	1	4443	1 of 5	CA-SDI-1506	20s	8w	10-20	Deb	Geo/GR	11/3/07	LV		3.50	3.48	1.03652	3.61
	2	1	4443	1 of 5	CA-SDI-1506	20s	8w	10-20	Deb	Geo/GR	11/3/07			3.45		1.03652	
OL 22			4082	1 of 1	CA-SDI-2506	20s	6w	10-20	util flk	Geo	10/1/07	LV	(bad slide)	n/a		1.03652	
OL 23	2	1	4082	1 of 1	CA-SDI-2506	20s	6w	10-20	util flk	Geo	10/1/07	LV	Edge Mod Flake 1 Bifacial edge	3.46		1.03652	
	3	1	4082	1 of 1	CA-SDI-2506	20s	6w	10-20	util flk	Geo	10/1/07	LV	Edge Mod Flake 1 Bifacial edge	3.57		1.03652	
	3	2	4082	1 of 1	CA-SDI-2506	20s	6w	10-20	util flk	Geo/GR	11/7/07	LV		3.00	3.03	1.03652	3.14

Lab #	sample	Img. No.	Art. Cat. No.	Sub Cat. No.	Site	Unit		Level (cm)	Art Class	Lab Tech Init.	Date	Project	Comments	Hyd rind Meas.	Averaged Meas.	Calibration Multiplier	Calibrated Meas.
	2	2	4082	1 of 1	CA-SDI-2506	20s	6w	10-20	util flk	Geo/GR	11/7/07	LV		3.06		1.03652	
OL 24	1	1	1-1-5	1 of 16	CA-SDI-2508	0n	10w	0-10	Deb	Geo	10/4/07	LV		3.95		1.03652	
	1	2	1-1-5	1 of 16	CA-SDI-2508	0n	10w	0-10	Deb	Geo/GR	11/7/07	LV		3.06	3.06	1.03652	3.17
OL 25	2	1	4250	1 of 1	CA-SDI-2506	20s	0e	20-30	Deb	Geo	10/4/07	LV	Sample broke in two			1.03652	
	1	1	4250	1 of 1	CA-SDI-2506	20s	0e	20-30	Deb	Geo	10/4/07	LV	Sample broke in two			1.03652	
	2	2	4250	1 of 1	CA-SDI-2506	20s	0e	20-30	Deb	Geo/GR	11/7/07			3.06	3.06	1.03652	3.17
	1	2	4250	1 of 1	CA-SDI-2506	20s	0e	20-30	Deb	Geo/GR	11/7/07			3.07		1.03652	
OL 26	1	1	5475	1 of 1	CA-SDI-2506	14s	6e	20-30	Deb	Geo/GR	11/7/07	LV		2.22	2.22	1.03652	2.30
	2		5475	1 of 1	CA-SDI-2506	14s	6e	20-30	Deb				appeared similar to edge 1	2.22		1.03652	
OL 27	2	1	5482	1 of 1	CA-SDI-2506	14s	6e	30-40	util flk	Geo	10/4/07	LV	1 edge bifacially worked (sample edge)			1.03652	
	1	1	5482	1 of 1	CA-SDI-2506	14s	6e	30-40	util flk	Geo	10/4/07	LV	1 edge bifacially worked (sample edge)			1.03652	
	2	2	5482	1 of 1	CA-SDI-2506	14s	6e	30-40	util flk	Geo/GR	11/7/07			2.50	2.47	1.03652	2.56
	1	2	5482	1 of 1	CA-SDI-2506	14s	6e	30-40	util flk	Geo/GR	11/7/07			2.44		1.03652	
OL 28	2	1	5379	1 of 2	CA_SDI-2506	24s	4w	10-20	Deb	Geo	10/4/07	LV		4.10		1.03652	
	3	1	5379	1 of 2	CA_SDI-2506	24s	4w	10-20	Deb	Geo/GR	11/7/07		side 1 has cracks with rinds	4.90	4.90	1.03652	5.08
	1	1	5379	1 of 2	CA_SDI-2506	24s	4w	10-20	Deb	Geo/GR	11/7/07			1.22	1.22	1.03652	1.26
	1	2	5379	1 of 2	CA_SDI-2506	24s	4w	10-20	Deb	Geo/GR	11/7/07			4.10	4.20	1.03652	4.35
	2	2	5379	1 of 2	CA_SDI-2506	24s	4w	10-20	Deb	Geo/GR	11/7/07			4.30		1.03652	
OL 29	1	1	0484	1 of 2	CA-SDI-2508	4n	12w	surface	Deb	Geo	10/4/07					1.03652	
	2	1	0484	1 of 2	CA-SDI-2508	4n	12w	surface	Deb	Geo	10/4/07					1.03652	
	1	2	0484	1 of 2	CA-SDI-2508	4n	12w	surface	Deb	Geo/GR	11/7/07	LV		6.12	6.12	1.03652	6.34
	2	2	0484	1 of 2	CA-SDI-2508	4n	12w	surface	Deb	Geo/GR	11/7/07	LV		4.90	4.90	1.03652	5.08
OL 30	2	1	5427	1 of 7	CA-SDI-2506	24s	4w	70-90	Deb	Geo	10/4/07	LV	cracks w/rinds	3.51		1.03652	
	3	1	5427	1 of 7	CA-SDI-2506	24s	4w	70-90	Deb	Geo/GR	11/7/07			3.22	3.22	1.03652	3.34
	2	2	5427	1 of 7	CA-SDI-2506	24s	4w	70-90	Deb	Geo/GR	11/7/07			3.70	3.70	1.03652	3.84
	1	1	5427	1 of 7	CA-SDI-2506	24s	4w	70-90	Deb	Geo/GR	11/7/07			1.22	1.22	1.03652	1.26
OL 31	2	1	5427	2 of 7	CA-SDI-2506	24s	4w	70-90	Deb	Geo	10/4/07	LV				1.03652	

Lab #	sample	Img. No.	Art. Cat. No.	Sub Cat. No.	Site	Unit		Level (cm)	Art Class	Lab Tech Init.	Date	Project	Comments	Hyd rind Meas.	Averaged Meas.	Calibration Multiplier	Calibrated Meas.
	2	2	5427	2 of 7	CA-SDI-2506	24s	4w	70-90	Deb	Geo	10/4/07	LV				1.03652	
	2	3	5427	2 of 7	CA-SDI-2506	24s	4w	70-90	Deb	Geo/GR	11/12/07	LV		1.67	1.67	1.03652	1.73
OL 32			4572	1 of 3	CA-SDI-2506	18s	8w	60-BR	Deb	SR	10/4/07	LV	No visable rind			1.03652	
OL 33	1	1	4550	1 of 4	CA-SDI-2506	18s	8w	30-40	Deb	SR	10/4/07	LV		2.70		1.03652	
	1	2	4550	1 of 4	CA-SDI-2506	18s	8w	30-40	Deb	Geo/GR	11/12/07		crack	2.87	2.75	1.03652	2.85
	2	1	4550	1 of 4	CA-SDI-2506	18s	8w	30-40	Deb	Geo/GR	11/12/07			2.62		1.03652	
OL 34	1	1	5089	1 of 2	CA-SDI-2506	22s	2w	30-40	Deb	Geo	10/4/07	LV	Has a Hydrated crack (obscure)	2.40		1.03652	
OL 35			5199	1 of 3	CA-SDI-2506	26s	6w	10-20	Deb	Geo	11/12/07	LV	not seen			1.03652	
OL 36	2	1	5199	2 of 3	CA-SDI-2506	26s	6w	10-20	Deb	Geo/GR	11/12/07	LV		2.90	2.90	1.03652	3.01
	1	1	5199	2 of 3	CA-SDI-2506	26s	6w	10-20	Deb	Geo/GR	11/12/07			2.90		1.03652	
OL 37	2	1	3-1-7	1 of 1	CA-SDI-2508	4s	10w	40-50	Deb	Geo/GR	11/12/07	LV	(not clear + not used) see OI - 66-69	17.54		1.03652	
	1	1	3-1-7	1 of 1	CA-SDI-2508	4s	10w	40-50	Deb	Geo/GR	11/12/07		(not clear + not used)	13.83		1.03652	
OL 38	1	1	4539	1 of 1	CA-SDI-2506	18s	8w	50-60	Deb	Geo/GR	11/12/07	LV		1.83	1.72	1.03652	1.78
	2	1	4539	1 of 1	CA-SDI-2506	18s	8w	50-60	Deb	Geo/GR	11/12/07			1.61		1.03652	
OL 39	1	1	0111	1 of 3	CA-SDI-2506	20s	6w	60-70	util flk	Geo/GR	11/12/07	LV	util flk tool	4.90	4.90	1.03652	5.08
	2	1	0111	1 of 3	CA-SDI-2506	20s	6w	60-70	util flk	Geo/GR	11/12/07			4.90		1.03652	
OL 40	1	1	0112	2 of 3	CA-SDI-2506	20s	6w	60-70	util flk	Geo/GR	11/12/07	LV		3.84	4.00	1.03652	4.15
	2	1	0112	2 of 3	CA-SDI-2506	20s	6w	60-70	util flk	Geo/GR	11/12/07			4.14		1.03652	
OL 41	1	1	1-1-28	1 of 6	CA-SDI-1508	0n	10w	20-30	use wear	Geo/GR	11/12/07	LV		4.50	4.50	1.03652	4.66
OL 42	1	1	5093	1 of 1	CA-SDI-2506	22s	2w	70-90	ang deb	Geo/GR	11/12/07	LV	crumbly	4.06	4.00	1.03652	4.15
	2	1	5093	1 of 1	CA-SDI-2506	22s	2w	70-90	ang deb	Geo/GR	11/12/07			3.90		1.03652	
OL 43	1	1	4-1-30	1 of 5	CA-SDI-2508	6s	8w	10-20	Deb	Geo/GR	11/12/07	LV		3.45	3.45	1.03652	3.58
OL 44	1	1	4663	1 of 1	CA-SDI-2504	10s	2w	10-20	Deb	Geo/GR	11/12/07	LV		2.00	2.11	1.03652	2.19
	2	1	4663	1 of 1	CA-SDI-2504	10s	2w	10-20	Deb	Geo/GR	11/12/07			2.22		1.03652	
OL 45			4-1-35	1 of 4	CA-SDI-2508	6s	8w	20-30	Deb	Geo/GR	11/12/07	LV	slide too thick			1.03652	

Lab #	sample	Img. No.	Art. Cat. No.	Sub Cat. No.	Site	Unit		Level (cm)	Art Class	Lab Tech Init.	Date	Project	Comments	Hyd rind Meas.	Averaged Meas.	Calibration Multiplier	Calibrated Meas.
OL 46	1	1	4960	1 of 1	CA-SDI-2506	24s	8w	60-70	Deb	Geo/GR	11/12/07	LV		5.34	5.34	1.03652	5.54
OL 47	1	1	4173	1 of 1	CA-SDI-2506	14s	2e	20-30	deb	Geo/GR	11/12/07	LV		3.45	3.34	1.03652	3.46
	2	1	4173	1 of 1	CA-SDI-2506	14s	2e	20-30	deb	Geo/GR	11/12/07			3.23		1.03652	
OL 48	2	1	2-1-27	1 of 4	CA-SDI-2508	2s	8w	20-30	deb	Geo/GR	11/12/07			3.30	3.30	1.03652	3.42
	1	1	2-1-27	1 of 4	CA-SDI-2508	2s	8w	20-30	deb					4.10	4.10	1.03652	4.25
OL 49	1	1	5227	1 of 1	CA-SDI-2506	26s	6w	40-50	deb	Geo/GR	11/12/07			4.92	4.92	1.03652	5.10
OL 50	1	1	4860	1 of 1	CA-SDI-2506	26s	2w	20-30	deb	Geo/GR	11/12/07			3.90	3.90	1.03652	4.04
			4860	1 of 1	CA-SDI-2506	26s	2w	20-30	deb	Geo/GR	11/12/07			3.30	3.30	1.03652	3.42
OL 51	2	1	5219	1 of 2	CA-SDI-2506	26s	6w	30-40	deb	Geo/GR	11/15/07			2.01	2.01	1.03652	2.08
OL 52	1	1	5079	1 of 1	CA-SDI-2506	22s	2w	50-70	deb	Geo/GR	11/15/07			3.10	3.10	1.03652	3.21
	1	1	5079	1 of 1	CA-SDI-2506	22s	2w	50-70	deb	Geo/GR	11/15/07			3.10		1.03652	
OL 53	1	1	4408	1 of 2	CA_SDI-2506	20s	6w	80-100	Fluted Pt	Geo/GR	11/15/07		Basal Fragment A no usable rind	10.40		1.03652	
			4408	1 of 2	CA_SDI-2506	20s	6w	80-100	Fluted Pt	Geo/GR	11/15/07					1.03652	
OL 54	1	1	4408	2 of 2	CA-SDI-2506	20s	6w	80-100	Fluted Pt	Geo/GR	11/15/07		Basal Fragment B no uable rind	30.00		1.03652	
	1	2	4408	2 of 2	CA-SDI-2506	20s	6w	80-100	Fluted Pt	Geo/GR	11/15/07					1.03652	
OL 55	1	1	26-1-7	1 of 1	CA-SDI-2506	0n	4e	10-20	Ang Deb	Geo/GR	11/16/07			2.84	2.84	1.03652	2.94
OL 56	2	1	207	1 of 1	CA-SDI-2506	0n	4e	40-50	Biface tip	Geo/GR	11/16/07		Biface tip	2.45	2.26	1.03652	2.34
	1	1	207	1 of 1	CA-SDI-2506	0n	4e	40-50	Biface tip					2.06		1.03652	
OL 57	1	1	4402	1 of 1	CA-SDI-2506	18s	6w	70-80	deb	Geo/GR	11/16/07			3.50	3.60	1.03652	3.73
	2	1	4402	1 of 1	CA-SDI-2506	18s	6w	70-80	deb	Geo/GR	11/16/07			3.70		1.03652	
OL 58	2	1	4159	1 of 2	CA-SDi-2506	14s	2e	10-20	deb	Geo/GR	11/16/07			3.30	3.38	1.03652	3.50
	1	1	4159	1 of 2	CA-SDi-2506	14s	2e	10-20	deb	Geo/GR	11/16/07			3.45		1.03652	
OL 59			5178	1 if 1	CA-SDI-2506	20s	4w	100-BR	deb				redo			1.03652	
OL 60			5178	1 if 1	CA-SDI-2506	20s	4w	100-BR	deb	Geo/GR	11/29/07		no rind observed			1.03652	

Lab #	sample	Img. No.	Art. Cat. No.	Sub Cat. No.	Site	Unit		Level (cm)	Art Class	Lab Tech Init.	Date	Project	Comments	Hyd rind Meas.	Averaged Meas.	Calibration Multiplier	Calibrated Meas.
OL 61	1	1	5089	1 of 2	CA-SDI-2506	22s	2w	30-40	deb	Geo/GR	11/29/07			3.90	3.90	1.03652	4.04
OL 62	2	1	4459	1 of 1	CA-SDI-2506	20s	8w	60-70	deb	Geo/GR	11/29/07			2.04	2.04	1.03652	2.11
OL 63	2	1	0067	2 of 20	CA-SDI-2508	0n	10w	30-40	deb	Geo/GR	11/29/07			3.67	3.67	1.03652	3.80
OL 64	2	1	0256	2 of 17	CA-SDI-2508	6s	8w	30-40	deb	Geo/GR	11/29/07			3.12	3.11	1.03652	3.22
	1	1	0256	2 of 17	CA-SDI-2508	6s	8w	30-40	deb	Geo/GR	11/29/07			3.09		1.03652	
OL 65	2	1	0256	3 of 17	CA-SDI-2508	6s	8w	30-40	deb	Geo/GR	11/29/07			2.90	2.90	1.03652	3.01
OL 66	1	1	0193	1 of 1	CA-SDI-2508	4s	10w	40-50	deb	Geo/GR	11/29/07		crack	6.96	6.96	1.03652	7.21
	1	2	0193	1 of 1	CA-SDI-2508	4s	10w	40-50	deb	Geo/GR	11/29/07		crack	7.86	7.86	1.03652	8.15