

Data Repository item 2003089

TABLE DR1

Chem sample No.	Dating sample No.	Age (Ma)	Latitude (Old Hawaiian datum)	Longitude (Old Hawaiian datum)	Altitude (m)	Geologic unit	Petrography	Lab	SiO ₂	TiO ₂	Al ₂ O ₃	FeO	Fe ₂ O ₃	MnO	MgO	CaO	Na ₂ O	K ₂ O	P ₂ O ₅	LOI	Total	Ni	Cr	Sc	V	Ba	Rb	Sr	Zr	Y	Nb	Ga	Cu	Zn	Pb	La	Ce	Th	
S98-HC419	NHK01	0.022 ± 0.005	20°43.026'	156°15.439'	2938	Hana	Basanite (aphyric)	WSU	43.22	3.629	15.86	14.28		0.212	5.50	10.11	4.11	1.43	0.555		98.90	8	22	19	380	564	34	824	221	29	55.0	23	3	127	0	42	73	5	
S00-HC1176	NHK43	0.038 ± 0.003	20°45.641'	156°15.129'	2146	Hana	Benmoreite	WSU	53.02	1.495	18.50	8.84		0.256	1.90	5.40	6.38	2.71	0.784		99.29	1	0	7	29	1047	73	984	387	34	91.8	24	6	137	6	63	119	9	
S00-HC1181	NHK48	0.062 ± 0.003	20°54.358'	156°12.805'	3	Hana	Basanite (aphyric)	WSU	47.35	3.047	17.63	11.41		0.214	4.20	8.14	4.66	1.79	0.760		99.20	0	3	10	166	796	38	1131	256	32	64.3	22	9	115	5	48	83	2	
S98-HC647	NKH02A	0.075 ± 0.004	20°37.724'	156°12.758'	12	Hana	Basanite (sl. porphyritic)	WSU	44.69	4.037	16.08	13.84		0.223	5.14	8.62	4.59	1.49	0.553		99.26	0	13	15	275	535	34	901	236	34	55.4	23	2	110	5	21	65	5	
S98-HC647	NKH02A	0.075 ± 0.004	20°37.724'	156°12.758'	12	Hana	Basanite (sl. porphyritic)	USGS	44.5	4.03	16.1		14.9	0.22	5.23	8.57	4.14	1.45	0.60	-0.17	99.57																		
S00-HC1188	NHK55	0.100 ± 0.007	20°42.889'	156°17.171'	2402	Hana	Basanite (sl. porphyritic)	WSU	43.33	3.534	14.66	14.55		0.205	7.20	11.39	3.29	1.06	0.431		99.65	68	113	29	398	445	27	633	181	26	40.5	22	58	115	1	21	65	2	
S00-HC1187	NHK54	0.100 ± 0.009	20°43.248'	156°16.828'	2402	Hana	Basanite (sl. porphyritic)	WSU	43.29	3.571	14.78	14.51		0.207	7.35	11.04	3.45	1.09	0.450		99.74	67	100	20	404	492	26	637	184	28	41.5	26	56	116	4	21	62	2	
S99-HC1117	--	0.121 ± 0.004	20°40.870'	156°04.458'	543	Hana	Basanite (aphyric)	WSU	47.42	2.926	17.30	11.53		0.231	4.13	8.03	5.26	2.03	0.869		99.73	4	9	7	155	860	49	1117	296	33	72.2	24	14	124	0	57	96	6	
S00-HC1136	NHK03	0.120 ± 0.003	20°38.157'	156°09.440'	104	Hana	Hawaiite (sl. porphyritic)	WSU	45.27	3.592	16.57	12.21		0.229	5.03	8.81	4.78	1.84	0.763		99.10	0	6	6	235	840	46	1025	267	33	66.3	25	20	129	2	57	82	3	
S00-HC1175	NHK42	0.113 ± 0.006	20°46.530'	156°14.688'	2048	Hana	Basanite (sl. porphyritic)	WSU	44.99	3.587	16.32	12.77		0.207	5.80	9.48	4.22	1.43	0.606		99.41	29	48	12	309	617	32	853	213	30	48.5	26	32	123	4	35	85	2	
S00-HC1137	NHK05	0.158 ± 0.006	20°55.994'	156°14.483'	3	Kula?	Basanite (aphyric)	WSU	44.25	3.761	16.23	12.85		0.212	5.28	10.02	4.51	1.44	0.601		99.15	3	16	10	323	603	33	861	228	28	48.6	25	11	126	3	40	70	1	
S00-HC1137	NHK05	0.158 ± 0.006	20°55.994'	156°14.483'	3	Kula?	Basanite (aphyric)	USGS	43.7	3.7	16.2		14.4	0.2	5.28	9.87	4.33	1.43	0.63	-0.25	99.49																		
S00-HC1189	NHK56	0.162 ± 0.005	20°42.470'	156°17.699'	2286	Kula?	Basanite (sl. porphyritic)	WSU	43.45	3.192	13.26	14.03		0.195	9.48	11.41	3.12	1.07	0.434		99.64	158	372	26	359	438	28	600	172	25	39.2	21	90	110	1	33	51	1	
S00-HC1183	NHK50	0.146 ± 0.007	20°48.727'	156°03.677'	2	Kula?	Basanite (ankaramite)	WSU	42.94	3.233	12.35	14.10		0.193	11.30	12.03	2.22	0.84	0.392		99.60	222	449	32	380	502	16	566	164	25	34.8	25	75	112	0	13	66	2	
S00-HC1182	NHK49	0.149 ± 0.006	20°48.715'	156°03.666'	3	Kula?	Basanite (aphyric)	WSU	44.91	3.948	16.84	11.88		0.221	5.02	9.64	4.38	1.53	0.665		99.04	0	11	15	280	690	32	1039	235	32	55.3	25	9	121	4	39	99	4	
S00-HC1160	--	Molokini	20°48.715'	156°03.666'	3	Kula?	Basanite (aphyric)	WSU	43.87	3.125	15.99	11.88		0.196	6.66	9.08	4.39	1.44	0.612	4.32	101.56	18	42	14	217	670	31	1076	222	29	54.0	21	28	107	3	30	74	3	
S00-HC1160	--	Molokini	20°48.715'	156°03.666'	3	Kula?	Basanite (aphyric)	USGS	42.3	3.01	15.6		12.5	0.18	6.46	8.74	4.02	1.34	0.62	4.16	98.93																		
S00-HC1161	NHK28	0.148 ± 0.017	20°38.025'	156°30.038'	3	Kula?	Basanite (aphyric)	WSU	41.98	3.028	15.40	11.39		0.189	7.17	10.05	4.20	1.41	0.593	6.42	101.83	17	41	16	207	621	30	1251	216	28	52.3	22	30	106	3	36	87	4	
S00-HC1161	NHK28	0.148 ± 0.017	20°38.025'	156°30.038'	3	Kula?	Basanite (aphyric)	USGS	40.0	2.86	14.8		11.9	0.18	6.8	9.52	3.75	1.27	0.57	7.22	98.87																		
S00-HC1186	NHK53	0.128 ± 0.006	20°43.250'	156°16.810'	2402	Hana	Basanite (ankaramite)	WSU	43.15	2.810	11.70	13.95		0.188	12.33	11.91	2.48	0.81	0.351		99.68	261	543	29	385	373	18	517	150	23	31.0	18	70	104	1	8	47	1	
S00-HC1190	NHK57	0.199 ± 0.008	20°42.654'	156°15.132'	3024	upper Kula	Phonotephrite (aphyric)	WSU	49.41	2.404	17.66	10.35		0.228	2.91	7.32	5.91	2.20	1.126		99.52	0	0	6	96	933	58	1258	339	34	76.2	23	13	123	2	45	135	6	
S00-HC1169	NHK36	0.286 ± 0.006	20°44.190'	156°11.095'	2621	upper Kula	Mugearite (aphyric)	WSU	51.82	2.030	17.61	9.61		0.243	2.40	6.39	5.95	2.23	1.116		99.40	0	0	5	52	897	52	1062	370	39	77.9	21	7	126	2	72	137	6	
S00-HC1166	NHK33	0.557 ± 0.007	20°44.292'	156°11.420'	2402	upper Kula	Mugearite (aphyric)	WSU	50.58	2.858	17.04	9.20		0.243	3.52	7.08	5.64	2.17	1.161		99.49	0	0	8	121	768	47	904	369	48	76.2	24	2	124	3	47	134	7	
S00-HC1165	NHK32	0.587 ± 0.008	20°44.294'	156°11.472'	2316	upper Kula	Mugearite (sl. porphyritic)	WSU	49.80	2.800	17.31	10.32		0.233	3.65	7.63	5.08	1.91	0.847		99.58	1	0	11	156	661	42	865	360	41	65.2	23	12	118	1	63	101	4	
S00-HC1164	NHK31	0.623 ± 0.012	20°44.280'	156°11.528'	2225	upper Kula	Hawaiite	WSU	49.20	3.711	16.02	11.15		0.255	4.19	8.52	4.71	1.45	0.679		99.88	0	1	11	168	529	31	770	288	38	52.4	24	4	143	0	36	92	5	
S00-HC1185	NHK52	0.703 ± 0.013	20°37.448'	156°13.559'	49	upper Kula	Hawaiite (aphyric)	WSU	48.67	3.449	16.85	11.54		0.226	4.44	7.66	4.21	1.49	0.680		99.21	1	5	7	168	525	31	911	308	40	54.7	23	5	121	3	45	111	6	
S00-HC1171	NHK38	0.581 ± 0.011	20°42.506'	156°10.317'	2207	upper Kula	Hawaiite (aphyric)	WSU	48.69	3.372	17.34	10.42		0.220	4.46	8.24	4.89	1.62	0.708		99.96	0	4	13	185	574	35	874	295	35	56.1	21	9	113	2	25	103	2	
S00-HC1174	NHK41	0.628 ± 0.013	20°42.896'	156°08.733'	1951	upper Kula	Hawaiite (aphyric)	WSU	48.30	3.777	16.34	11.46		0.249	4.49	8.57	4.30	1.41	0.630		99.52	1	5	9	200	510	28	862	278	37	51.1	22	6	127	2	38	85	3	
S00-HC1158	NHK26	0.475 ± 0.010	20°42.418'	156°11.583'	2420	upper Kula	Hawaiite (aphyric)	WSU	48.50	3.313	17.71	10.61		0.221	4.30	7.94	5.09	1.60	0.711		99.99	0	0	9	158	629	35	1040	274	31	56.3	22	13	112	4	54	81	5	

