

Table 3. Water chemistry, tritium concentrations and stable isotope values for waters collected from features within and around Lassen Volcanic National Park, California, between July 1975 and October 1982

Site code	Feature type	Sample #	Date	Temp. (°C)	pH (p)	pH (Lm)	As	B	Ba	Br	Ca	Cl	Cs	F	Fe	HCO ₃ -K	Li	Mg	Mn	Na	NH ₄	Rb	SiO ₂	SO ₄	Sr	δD-water (‰)	δ ¹⁸ O-water (‰)	Tritium (TU)		
BUMPASS HELL																														
BH-A	TS	075-04	07/16/75	93	2.0	2.36	-0.04	0.7			7.09	-0.5		0.3		0	3.9	<0.01	2.5	0.12	8	1.6		96.36	458		-75	-7.1		
BH-42	TS	075-05	07/16/75	90	1.7	1.95		<0.1			1.1	<0.5		<0.1		0	4.1	<0.01	1.8	0.2	4	1.4		195			-62	-2.0		
BOILING SPRINGS LAKE - DRAKESBAD - TERMINAL GEYSER																														
BSL	TS	079-02	07/31/79	94	1.9	2.31		1.7			21.6	13		0.55	63	0	1.25	0	15.2		6.5			242	710		-68	-3.8		
DB-02	TS	076-03	09/01/76	65.5	6.8	8.13		0.6	0.5		38.6	0.9	0.06	0.15	<0.04	130	10.3	0.03	9.6	0.06	41	0.10	144	132	0.6	91		-11.4		
DB-02	TS	LM76-232	Aug. 1976	65	6.5	7.11		1.4	0.4		38	3.0	0.07	0.15		129	10.9	0.03	9.1		45	0.12	142	140	0.4	90.5		-11.42		
ITG	FM	076-06	09/01/76	92		4.50		1.57			8.2	1.6		0		33	3	0	1.9		8			465	48		-87	-10.5		
TG WW	W	LJ82-23	10/23/82	86		7.45		2.7			43.1	1100		2.06		84	77.8	2.83	2.4		681			107	129		-97	-12.1		
TG WW	W	LJ82-24	10/23/82	86		2.45		2.64			367.7	6650		4.94		0	319	19.4	5.3		3230			33	180		-92	-9.5		
TG WW	W	LJ82-25	10/23/82	86		7.60	10.4	55.0		6.25	77.9	1760	0.8	4.17		84	102	5.33	1.78		1030	0.73	145	99		-96	-10.8			
TG WW	W	LJ82-26	10/23/82	86		7.44	9.9	62.0		7.60	60.8	2180	1.29	3.85		95	162	7.01	2.98		1220	1.34	133	81		-93	-9.7			
TG WW	W	LJ82-27	10/23/82	86		7.76	8.9	51.0		6.25	76.4	1770	0.81	3.94		111	99	5.28	0.83		1010	0.72	141	105		-97	-10.5			
DEVILS KITCHEN																														
DK-12	TS	075-07	07/17/75	94	7.0			0.73			610	0.3		0.33		23.7	4.4	0	141		23.5			114	43.1		-86	-10.4		
DK-14	TS	079-05	07/31/79	92		6.12		1.5			9.26	11		0.31	0.1	46	3.96	0.05	0.9	0.07	35.3	2.6		166	64		-77	-7.1		
DK-15	TS	079-04	07/31/79	94	6.8			0			14.7	3		0.22		62	1.07	0	3.41		12.0			60	78		-94	-12.6		
DK-34	TS	075-08	07/17/75	95	4.5			0.59			9.1	1.7		0.32		0	1.22	0	0		0			41.5	57.9		-87	-11.0		
DK-75	TS	075-08	07/17/75	95.5	1.9	7.81		1.4			45	<0.5		0.31		32.4	13.2	<0.01	4.0		243	1		213	237		-82	-9.8		
DK-91	TS	076-01	09/01/76	68	2.5	3.26		0.3			10.5	0.5		0.17	6.1	0	7.2	0.015	6.5	0.08	2			171	226		-83	-10.3		
DK-98	TS	076-02	09/01/76	73	5.6	7.88		1.4			12.2	1.4	0.07	0.32	<0.04	234	17.4	0.04	13.2	0.08	34	0.15	183	18		-90	-12.5			
LITTLE HOT SPRINGS VALLEY																														
LHSV-01	TS	076-10	09/02/76	95	4.8	8.32		0.3	1.2		114	1.4	0.08	0.3	<0.02	182	15.8	0.025	8.7	0.65	93	0.08	133	429	1.4	-88		-11.6		
LHSV-01	TS	077-07	08/27/77	nr				0.13			59.2	4.3		0.22		87	14	0	6.53		90.7			172	373					
LHSV-06	TS	LM76-162 (J76-08)	09/02/76	93	4.5			5.13			23	3		0.75		41	14.2	0.01	3.35		96			115	294		-77	-7.9		
LHSV-07	TS	076-09	09/02/76	94	3.8			0.48			44.3	0.6		0.7		0	11	0.085	14.9		98			162	511		-76	-8.3		
LHSV-08	TS	079-09	08/01/79	93	5.5			4.2			25.7	6		0.84		19	11.93	0	4.09		86.9	4.2		123	301		-76	-7.7		
LHSV-08	TS	LM76-169	09/02/76	91	5.0	6.83		1.0			39	2		<0.1		24	20.9	0.01	3.6		74			117	330		-81	-9.4		
LHSV-09	TS	079-10	08/01/79	88	5.6	6.19		0.2			39.7	3.3		0.35	<0.04	12	15.35	<0.05	4.0	0.16	55.3	1.2		152	220		-83	-9.7		
ULHSV-01	TS	076-04	09/02/76	66.5	6.7	7.74		0.1	2.4		208	0.9	0.06	0.54		351	15.5	0.025	14.5	0.4	70	0.09	100	487	3.1	-92		-12.9		
ULHSV-02	TS	076-05	09/02/76	69				0			255	1.2		0.57		275	14.8	0.025	15.8		65			91	517		-93	-13.0		
ULHSV-04	TS	079-11	08/01/79	55.5	6.7	7.02		<0.1			102	6.2		0.5	1.4	425	9.14	<0.05	5.6		67.6	5.3		133	101		-91	-12.5		
SULPHUR WORKS																														
SW-01	TS	LM76-116	09/02/76	83	6.5	7.72		1.2	1.6		159	2		0.52	<0.02	267	14.4	0.02	38.0	0.4	70			154	494	3	-86		-11.7	
SW-10	TS	LM76-76 (J76-12)	09/03/76	88	7.2	8.25		<0.1	1.3		115	0.5		0.77	0.1	230	2.7	<0.01	28.2	0.8	3			39	246	0.32	-92.4		-12.51	
MORGAN-GROWLER																														
GHS	TS	075-01	07/16/75	95	8.3			105			80	2390		2.3		648	203	11.2	0.05		1450			231	75		-93			
GHS	TS	079-14	08/02/79	95		7.45		83.5			81.2	2400		2.3		55	173	0.63	0.067		1340			272	110		-95	-2.3		
GHS	TS	LJ82-01	09/03/82	95.5	8.0	7.79	12.7	71	0.62	8.00	59.8	2430	2.09	2.03	0.16	66	185	7.70	0.01	0.01	1380	3.0	1.61	274	90	0.98	-94		-9.3	0.2
MHS-01	TS	076-15	09/03/76	96.5	7.1			81.7			85.5	2590		2.5		66	173	7.4	1.4		1470			189	99		-95	-9.7		
MHS-01	TS	079-16	08/24/79	95		7.25		72			100	3240		2.6		68	162	0.6	0.866		1260			285	123		-95	-9.6		
MHS-01	TS	079-15	08/24/79	96				74			94.4	2330		2.6		50	155	7.09	0.31		1240			122	101		-95			
MHS-02	TS	076-14	09/03/76	94	7.1			95			85.5	2335		2.7		61	182	7.94	0.47		1460			172	98		-95	-9.8		
MHS-02	TS	079-18	08/02/79	93	6.9			24.8			91.9	2300		2.9		63	166	0.64	0.4		1280			200	72		-95	-9.4		
MHS-02	TS	079-14	08/24/79	94				74			88.1	2300		2.5		70	159	7.08	0.32		1260			126	113		-95			
MHS-02	TS	LJ82-02	09/03/82	89	7.0	7.17	10.7	69	0.41	7.75	68.4	2380	2.1	2.08	0.06	69	157	7.50	0.34	0.02	1340	1.5	1.47	201	96	1.17	-95		-9.6	
MHS-03	TS	076-02	07/16/75	85	7.2			90			92	2300		3		43.6	165	8.2	0.45		1380			101	122.7		-95			
MHS-03	TS	LJ82-03	09/03/82	77	6.5	6.88	19.2	65	0.64	7.60	68.8	2200	2.06	2.25	0.13	45	142	6.96	0.45	0.13	1290	11.2	1.34	215	111	1.04	-96		-9.8	
MHS-04	TS	076-16	09/03/76	89	7.4			85.5			86	2350		2.5		66	179	7.5	0.11		1520			170	99		-93		-9.3	
MHS-05	TS	079-17	08/24/79	85				72			111	2240		2.6		108	149	6.71	0.69		1180			162	107		-94		-9.5	
MHS-06	TS	079-18	08/24/79	82				81			128	2160		2.5		134	140	6.45	3.71		1140			150	113		-95		-9.6	
MHS-08	TS	0716/75	88.5	7.2				72			90	2270		2.8		62.3	165	8	0.8		1370			177	98		-94		-9.5	
MHS-08	TS	079-19	08/24/79	88				72			99.8	2290		2.6		46	141	6.69	0.57		1190			146	104		-94		-9.5	
MHS-09	TS	079-16	08/2																											