

Table S1. Chemical composition of water samples from selected springs and geysers monitored by INGEMMET in years 2013-2018.

No.*	Location. discharge type	Date	T <sub>w</sub> **	EC**	pH**	Ca <sup>2+</sup>	Mg <sup>2+</sup>	Na <sup>+</sup>	K <sup>+</sup>	Li <sup>+</sup>	HCO <sub>3</sub> <sup>-</sup>	F <sup>-</sup>	Cl <sup>-</sup>	SO <sub>4</sub> <sup>2-</sup>	SiO <sub>2</sub>	TDS
26	Puye, spring	25.09.2014	70.4	5600	7.371	94.4	7.0	991	77.2	5.2	881	1.5	1111	350	88.0	2950
		21.10.2014	65.0	5630	6.77	77.3	6.9	1072	75.0	5.3	889	1.9	1166	352	91.3	2970
		10.11.2014	75.0	5750	6.97	73.7	7.1	997	76.0	6.0	822	1.4	1113	362	99.8	3030
		29.05.2015	67.6	5450***	7.24	79.0	7.3	1029	79.6	5.4	863	7.0	1232	337	82.8	n.d.
		23.06.2015	n.d.	5330	7.63	78.7	6.8	1003	75.6	6.4	883	3.8	1189	348	91.4	2800
		19.07.2018	81.4	5607***	8.00***	77.7	7.5	988	78.9	5.2	595	2.7	1238	305	113	n.d.
10/13	Paclla, geysers	26.07.2013	93.1	3900	7.71	62.0	4.0	617	77	3.6	60	3.5	853	297	177	2000
		12.12.2013	94.3	3770	7.56	66.4	4.2	512	77.5	3.4	107	1.1	869	302	195	1950
		23.09.2014	92.2	3840	6.966	66.8	2.0	649	84.8	4.1	146	3.4	819	311	187	1970
		30.05.2015	88.8	3460	7.53	43.7	2.6	593	87.2	4.3	82	5.8	894	317	177	1784
29/30	La Calera, spring	01.03.2013	67.3	6650	6.294	108	10.8	1081	67.6	3.3	779	1.2	1609	252	58.1	3520
		08.03.2013	68.4	6760	6.325	109	11.0	1099	68.7	3.3	781	1.1	1600	263	58.9	3560
		18.03.2013	66.7	6720	6.277	110	10.9	1407	67.8	3.3	780	1.4	2031	339	58.3	3540
		02.04.2013	68.0	6670	6.68	106	10.9	1100	69.9	3.4	543	<0.5	1638	270	56.9	3530
		13.05.2013	68.4	6960	6.24	170	11.9	793	70.2	17.5	620	<0.5	1374	227	38.2	3730
		05.06.2013	67.7	6850	6.12	118	11.4	1109	73.0	3.7	665	<0.5	1549	253	58.2	3610
		25.07.2013	67.8	6980	6.26	108	11.0	1152	69.0	3.0	778	<0.5	1553	260	55	3700
		26.07.2013	67.7	6964	6.21	108	11.0	1140	69.0	3.0	729	<0.5	1565	261	56	3642
		11.09.2013	67.3	6700	6.21	110	12.0	1123	79.0	4.4	792	1.3	1639	273	59	3550
		21.09.2013	67.2	6840	6.77	111	12.0	1138	80.0	4.5	784	<0.5	1635	269	60	580
		24.10.2013	68.1	6720	7.02	105	11.5	1269	69.7	3.3	782	<0.5	1631	266	56.8	3545
		13.12.2013	67.0	6670	6.81	114	12.1	1025	71.0	3.2	634	<0.5	1521	246	60.0	3530
		29.01.2014	68.4	6810	6.37	140	11.4	1105	64.8	2.5	808	1.5	1589	276	68.1	3390
		15.05.2014	68.4	6920	6.306	116	11.0	984	66.0	3.0	773	0.8	1483	223	59	3640
		01.07.2014	68.1	6760	6.347	107	10.8	1162	67.7	2.6	885	1.6	1659	262	51	3580
		19.07.2014	68.1	6830	6.327	108	10.8	1370	67.8	3.5	870	1.4	1776	319	55	3620
		13.08.2014	66.3	6760	6.381	112	11.1	1205	69.4	3.8	914	2.0	1509	295	52	3580
		19.09.2014	68.4	6620	6.4	98.8	9.6	1203	62.8	3.4	866	0.9	1459	294	49.8	3500
		26.09.2014	68.2	6770	6.4	130	11.0	1165	72.8	3.3	870	1.3	1494	304	57.5	3590
		24.10.2014	66.3	6760	6.48	109	11.0	1165	72.0	3.3	878	0.8	1584	324	61.5	3630
		11.11.2014	n.d.	6890	6.43	110	11.4	1196	74.7	3.7	836	1.0	1539	310	66.4	3260
		01.02.2015	68.3	6770	6.77	103	10.5	1279	70.3	2.2	883	1.3	1480	270	60.6	3560
		09.03.2015	68.0	6760	6.37	102	9.8	1386	65.9	3.1	841	1.4	1695	285	50.8	3580
		29.05.2015	67.5	6930	6.42	109	11.0	1276	75.4	2.8	851	6.0	1665	282	54.7	3700
		26.06.2015	68.9	6710	6.42	109	10.6	1356	70.5	4.1	862	5.9	1608	307	61.2	3580
		11.08.2015	67.5	6890	7.13	116	12.7	1174	72.3	3.2	771	2.0	1582	252	55.4	3366
		19.09.2015	66.8	6850	7.08***	97.9	10.3	1359	63.6	3.3	802	1.8	1667	286	57.0	3630
		20.09.2015	66.7	6830	6.95***	99.5	10.0	1319	65.2	3.3	792	1.5	1734	284	57.6	3610
		07.11.2015	66.2	6690	8.12***	112	11.9	1256	70.0	3.3	666	2.3	1681	288	52.8	3580
		25.11.2015	67.1	7040	8.24***	110	11.0	1131	76.0	3.9	689	2.1	1694	301	62	3750
		23.05.2016	n.d.	6860	7.40***	111	10.8	1242	90.9	3.2	664	1.6	1630	298	53.1	3450
		20.09.2016	n.d.	9710	7.00***	110	10.8	1030	77.8	5.1	453	1.5	1624	272	57.3	5880
17.11.2017	n.d.	6480	7.77***	131	11.0	1114	68.0	4.2	612	1.7	1670	342	66.4	3430		
24.05.2018	n.d.	6660	7.05***	105	10.7	1303	62.9	4.7	692	1.8	1705	251	60.1	3520		
08.06.2018	n.d.	6180	6.78***	132	11.5	1173	67.5	4.3	444	2.0	1829	270	59.2	3260		
17.07.2018	n.d.	6586.0	7.8***	128	12.5	1221	76.9	4.0	653	2.1	1546	243	81.1	n.d.		
17.07.2018	n.d.	6590.0	7.8***	123	12.3	1206	76.6	3.9	757	2.2	1671	267	80.5	n.d.		
23.08.2018	n.d.	6658	8.0***	91.3	10.8	1077	59.9	2.7	432	2.1	1564	315	69.6	n.d.		
19.09.2018	66.0	6667	8.1***	90.7	11.0	1063	61.5	2.8	590	2.4	1507	325	70.0	n.d.		

T<sub>w</sub> – water temperature in °C, EC – electrical conductivity in µS/cm, values of ion contents, SiO<sub>2</sub> and TDS are in mg/L, n.d. – not determined

\*No. of sampling site as in Table 2, \*\* measured in the field, \*\*\* measured in the laboratory