

**Table 4: Strontium isotopic concentrations in the Amiran foreland basin (NE Zagros, Iran)**

Sample	Lat. (Decimal)	Long. (Decimal)	Section	Formation	Level	$^{87}\text{Sr}/^{86}\text{Sr}$	Error(* $10^{-6}$ )
SH-10-050508	33.59589	48.29660	Dar Howz	Tarbur	1301	0.707525	9
SH-04-140508-2	33.60201	48.29856	Dar Howz	Shahbazan	1303	0.707810	7
SH-01-050508	33.60339	48.29915	Dar Howz	Shahbazan	1305	0.708487	8
SH-03-140508	33.60194	48.29852	Dar Howz	Shahbazan	1305	0.707819	6
SH-10-140508	33.60259	48.29884	Dar Howz	Shahbazan	1307	0.708424	6
SH-070508-14	33.60226	48.29867	Dar Howz	Shahbazan	1307	0.708199	6
SH-06-140508-2	33.60218	48.29863	Dar Howz	Shahbazan	1308	0.708358	7
SH-01-140508-2	33.60181	48.29849	Dar Howz	Shahbazan	1311	0.707766	6
SH-04-050508-02	33.60249	48.29877	Dar Howz	Shahbazan	1317	0.708071	6
SH-04-050508-01	33.60249	48.29877	Dar Howz	Asmari	1317	0.708438	6
SH-16-070508	33.43032	48.57305	Cehel Taghi	Asmari	2070	0.708413	6
SH-18-070508	33.43078	48.57313	Cehel Taghi	Asmari	2102	0.708482	11
SH-07-170508	33.45002	47.98610	NE Pusht-e Jangal	Shahbazan	1359	0.707552	6
SH-09-170508	33.45044	47.99086	NE Pusht-e Jangal	Shahbazan	1490	0.707974	6
SH-12-170508	33.45281	47.99200	NE Pusht-e Jangal	Asmari	1498	0.708366	6
SH-11-170508	33.45254	47.99171	NE Pusht-e Jangal	Asmari	1500	0.708413	5
SH-10-170508	33.45161	47.99096	NE Pusht-e Jangal	Shahbazan	1521	0.707954	5
SH-11-180508	33.42602	47.93044	SW Pusht-e Jangal	Amiran	389	0.707627	6
SH-08-190508	33.41470	47.92020	SW Pusht-e Jangal	Shahbazan	1078	0.707736	6
SH-09-190508	33.41421	47.92017	SW Pusht-e Jangal	Shahbazan	1078	0.708024	6
SH-20-200508	33.14115	48.04448	NE Sultan	TalehZang	1535	0.707692	3
SH-27-200508	33.14749	48.05013	NE Sultan	Shahbazan	1688	0.707798	7
SH-28-200508	33.14835	48.04863	NE Sultan	Shahbazan	1711	0.707741	6
SH-29-200508	33.14933	48.04983	NE Sultan	Shahbazan	1753	0.707776	7
SH-6-130607-2	33.16988	47.93748	SW Sultan	Gurpi	32	0.707728	4
SH-9-130607-3	33.16945	47.93690	SW Sultan	Gurpi	56	0.707720	5
SH-15-130607-2	33.16888	47.93515	SW Sultan	Gurpi	93	0.707727	6
SH-15-160607-2	33.16876	47.91130	SW Sultan	Taleh Zang	891	0.707710	6

SH-17-160607-2	33.16866	47.91130	SW Sultan	Taleh Zang	905	0.707703	6
SH-3-170607-2	33.16866	47.91124	SW Sultan	Taleh Zang	941	0.707741	5
SH-7-170607-2	33.16854	47.91062	SW Sultan	Taleh Zang	981	0.707727	6
SH-12-170607-2	33.16837	47.91009	SW Sultan	Taleh Zang	1027	0.707697	6
SH-14-170607-1	33.16696	47.91023	SW Sultan	Taleh Zang	1045	0.707763	6
SH-16-170607-2	33.16602	47.91059	SW Sultan	Taleh Zang	1075	0.707710	6
SH-17-170607-2	33.16525	47.91063	SW Sultan	Taleh Zang	1097	0.707676	5
SH-13-210607-1	33.16707	47.90654	SW Sultan	Kashkan	1257	0.707782	6
SH-30-170607-2	33.16692	47.90628	SW Sultan	Shahbazan	1307	0.707772	5
SH-32-170607-2	33.16652	47.90575	SW Sultan	Shahbazan	1335	0.707762	4
SH20-210607-2	33.16624	47.90526	SW Sultan	Shahbazan	1378	0.707795	6
SH25-210607-2	33.16585	47.90434	SW Sultan	Shahbazan	1466	0.708102	5
SH-13-180607-2	33.06980	48.23990	NE Rit	Taleh Zang	648	0.707691	5
SH-12-180607-2	33.07060	48.24013	NE Rit	Taleh Zang	701	0.707667	5
SH-11-180607-2	33.07266	48.24037	NE Rit	Taleh Zang	845	0.707693	5
SH-6-180607-1	33.07609	48.24117	NE Rit	Shahbazan	1131	0.707867	5
SH-5-180607-1	33.07621	48.24116	NE Rit	Shahbazan	1171	0.707824	5
SH-10-220607-2	33.00860	48.18523	SW Rit	Amiran	420	0.707704	4
WP-12-220607-2	33.00829	48.18527	SW Rit	Taleh Zang	558	0.707713	5
SH-14-220607-2	33.00809	48.18598	SW Rit	Taleh Zang	598	0.707715	6
SH-15-220607-2	33.00610	48.18890	SW Rit	Taleh Zang	619	0.707678	5
SH-5-230607-2	32.94552	48.12228	Kush Ab	Taleh Zang	10	0.707693	5
SH-6-230607-3	32.94465	48.12244	Kush Ab	Taleh Zang	29	0.707592	5
SH-7-230607-2	32.94379	48.12239	Kush Ab	Taleh Zang	51	0.707677	5
SH-13-230607-2	32.92415	48.10731	Kush Ab	Taleh Zang	320	0.707801	4
SH-14-230607-2	32.92401	48.10643	Kush Ab	Taleh Zang	334	0.707714	5
SH-10-190607-2	32.92490	48.07246	NE Chenareh	Amiran	157	0.707743	5
SH-14-190607-1	32.92443	48.08002	NE Chenareh	Amiran	182	0.707730	5
SH-2-200607-1	32.92615	48.08264	NE Chenareh	Amiran	311	0.707584	5
SH-4-200607-1	32.92681	48.08507	NE Chenareh	Amiran	500	0.707709	5
SH-17-200607-1	32.92725	48.08403	NE Chenareh	TZ-Ks	649	0.707801	5
SH-19-200607-2	32.92726	48.08390	NE Chenareh	TZ-Ks	671	0.707862	5
SH-20-200607-1	32.92383	48.07624	NE Chenareh	TZ-Ks	686	0.707885	6
SH-21-200607-1	32.92752	48.08415	NE Chenareh	Shahbazan	799	0.707848	5

n= 62 samples