

Sample Number	Station ID	Date	EL Name	Sample Code	Pima File	TSA Mineral 1	TSA Weight 1	Tsa Mineral 2	TSA Weight 2	TSA Error	Kaolinite Crystallinity	AlOH Crystallinity	Representation
DA98B10004	DA980004	1/08/98	EL 5062	B	DA98B1A0004	Paragonite	1	NULL	NULL	220.15	0.991	0	R
DA98B10005	DA980005	1/08/98	EL 5062	B	DA98B1A0005	Paragonite	0.534	Illite	0.466	81.06	0.99	0	R
DA98B10006	DA980006	1/08/98	EL 5062	B	DA98B1A0006	Paragonite	0.58	Illite	0.42	39.13	0.972	0	R
DA98B10007	DA980007	1/08/98	EL 5062	B	DA98B1A0007	Paragonite	0.58	Illite	0.42	39.13	0.972	0	R
DA98B10008	DA980008	1/08/98	EL 5062	B	DA98B1A0008	Paragonite	1	NULL	NULL	53.41	0.947	0	R
DA98B10009	DA980009	1/08/98	EL 5062	B	DA98B1A0009	Paragonite	0.914	Gypsum	0.0865	102.15	0.981	0	R
DA98B10010	DA980010	1/08/98	EL 5062	B	DA98B1A0010	Illite	0.62	Kaolinite	0.38	85.88	1.02	0	R
DA98B10011	DA980011	1/08/98	EL 5062	B	DA98B1A0011	Paragonite	1	NULL	NULL	206.98	0.986	0	R
DA98B10012	DA980012	1/08/98	EL 5062	B	DA98B1A0012	Muscovite	0.633	Halloysite	0.367	89.89	1.02	0	R
DA98B10013	DA980013	1/08/98	EL 5062	B	DA98B1A0013	Halloysite	1	NULL	NULL	164.62	1.03	0	R
DA98B10014	DA980014	1/08/98	EL 5062	B	DA98B1A0014	Illite	1	NULL	NULL	50.99	1	0	R
DA98C10015	DA980015	8/08/98	EL 5061	C	DA98C1A0015	Illite	1	NULL	NULL	107.382	1.004	0.982	R
DA98C10016	DA980016	9/08/98	EL 5061	C	DA98C1A0016	Illite	1	NULL	NULL	54.273	1.002	1.005	R
DA98C10017	DA980017	17/08/98	EL 5061	C	DA98C1A0017	NULL	NULL	NULL	NULL	NULL	0.997	1.003	R
DA98C30018	DA980018	17/08/98	EL 5061	C	DA98C3A0018	Gypsum	1	NULL	NULL	96.777	0.999	0.944	D
DA98C10018	DA980018	17/08/98	EL 5061	C	DA98C1A0018	NULL	NULL	NULL	NULL	NULL	1.001	0.911	R
DA98C10020	DA980020	22/08/98	EL 5062	C	DA98C1A0020	Paragonite	0.514	Illite	0.486	29.877	0.972	1.114	R
DA98C10021	DA980021	22/08/98	EL 5062	C	DA98C1A0021	NULL	NULL	NULL	NULL	NULL	1.005	0.938	R
DA98C10022	DA980022	13/09/98	EL 5062	C	DA98C1A0022	Kaolinite	1	NULL	NULL	81.837	1.025	1.033	R
DA98C10023	DA980023	13/09/98	EL 5062	C	DA98C1A0023	Muscovite	0.577	Kaolinite	0.423	186.811	1.019	0.985	R
DA98B10024	DA980024	23/09/98	EL 5061	B	DA98B1A0024	Illite	1	NULL	NULL	68.649	1.008	1	R
DA98B10025	DA980025	23/09/98	EL 5061	B	DA98B1A0025	Illite	0.747	Kaolinite	0.253	24.059	1.017	1.084	R
DA98B10026	DA980026	23/09/98	EL 5061	B	DA98B1A0026	Illite	1	NULL	NULL	126.067	1.004	0.979	R
DA98B10027	DA980027	23/09/98	EL 5061	B	DA98B1A0027	Illite	0.524	Kaolinite	0.476	61.887	0.988	1.054	R
DA98B10028	DA980028	23/09/98	EL 5061	B	DA98B1A0028	Illite	0.787	Kaolinite	0.213	60.07	1.005	1.061	R
DA98B10029	DA980029	23/09/98	EL 5061	B	DA98B1A0029	Muscovite	1	NULL	NULL	217.207	1.002	0.98	R
DA98B10030	DA980030	23/09/98	EL 5061	C	DA98B1A0030	Muscovite	0.542	Kaolinite	0.458	93.632	1.01	1.023	R
DA98B10031	DA980031	23/09/98	EL 5061	B	DA98B1A0031	Illite	0.575	Kaolinite	0.425	54.823	1.007	1.135	R
DA98B10032	DA980032	23/09/98	EL 5061	B	DA98B1A0032	Illite	1	NULL	NULL	153.545	1	1.004	R
DA98B10033	DA980033	23/09/98	EL 5061	B	DA98B1A0033	Illite	1	NULL	NULL	91.458	0.997	1.061	R
DA98B10034	DA980034	23/09/98	EL 5061	B	DA98B1A0034	Illite	1	NULL	NULL	84.354	0.999	1.009	R
DA98B10035	DA980035	23/09/98	EL 5061	B	DA98B1A0035	Illite	1	NULL	NULL	156.252	0.996	0.985	R
DA98B10036	DA980036	23/09/98	EL 5061	B	DA98B1A0036	Illite	1	NULL	NULL	141.876	0.993	0.968	R
DA98B10037	DA980037	23/09/98	EL 5061	B	DA98B1A0037	Kaolinite	0.571	Muscovite	0.429	58.635	1.043	1.128	R
DA98B10038	DA980038	23/09/98	EL 5061	B	DA98B1A0038	Illite	0.839	Gypsum	0.161	119.943	1	0.957	R
DA98B10039	DA980039	23/09/98	EL 5061	B	DA98B1A0039	Illite	0.841	Kaolinite	0.159	23.912	0.979	1.112	R
DA98B10040	DA980040	23/09/98	EL 5061	B	DA98B1A0040	Illite	0.671	Kaolinite	0.329	38.729	1.003	1.085	R
DA98B10041	DA980041	23/09/98	EL 5061	B	DA98B1A0041	Illite	1	NULL	NULL	40.164	1.004	1.004	R
DA98B10042	DA980042	23/09/98	EL 5061	B	DA98B1A0042	Illite	1	NULL	NULL	28.156	0.999	1.078	R
DA98B10043	DA980043	23/09/98	EL 5061	B	DA98B1A0043	Paragonite	0.671	Illite	0.329	50.364	0.96	1.055	R
DA98B10044	DA980044	23/09/98	EL 5061	B	DA98B1A0044	Illite	1	NULL	NULL	156.192	0.99	0.991	R
DA98B10045	DA980045	23/09/98	EL 5061	B	DA98B1A0045	Illite	0.579	Kaolinite	0.421	104.067	1	1.026	R
DA98B10046	DA980046	23/09/98	EL 5061	B	DA98B1A0046	Illite	1	NULL	NULL	111.376	0.992	0.977	R
DA98B10047	DA980047	23/09/98	EL 5061	B	DA98B1A0047	Illite	1	NULL	NULL	67.8	1.003	1.039	R
DA98B10048	DA980048	23/09/98	EL 5061	B	DA98B1A0048	Illite	0.68	Kaolinite	0.32	67.111	0.999	1.024	R
DA98B10049	DA980049	23/09/98	EL 5061	B	DA98B1A0049	Illite	0.629	Halloysite	0.371	41.825	1.009	1.096	R

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DA98B10051	DA980051	23/09/98	EL 5061	B	DA98B1A0051	Illite	0.596	Gypsum	0.404	398.258	1.001	0.906	R
DA98B10052	DA980052	23/09/98	EL 5061	B	DA98B1A0052	Illite	0.706	Paragonite	0.294	31.176	0.977	1.088	R
DA98B10053	DA980053	23/09/98	EL 5061	B	DA98B1A0053	Illite	1	NULL	NULL	96.571	1.013	0.946	R
DA98B10200	DA980200	30/07/98	EL 5062	B	DA98B1A0200	Kaolinite	0.665	Muscovite	0.335	64.4	1.05	0	R
DA98B10201	DA980201	30/07/98	EL 5062	B	DA98B1A0201	Muscovite	1	NULL	NULL	92.62	1.01	0	R
DA98B10203	DA980203	30/07/98	EL 5062	B	DA98B1A0203	Muscovite	1	NULL	NULL	40.73	1.01	0	R
DA98B10204	DA980204	30/07/98	EL 5062	B	DA98B1A0204	Halloysite	0.777	Rubellite	0.223	328.81	0.96	0	R
DA98B10205	DA980205	30/07/98	EL 5062	B	DA98B1A0205	Halloysite	0.555	Muscovite	0.445	93.28	1.04	0	R
DA98B10206	DA980206	30/07/98	EL 5062	B	DA98B1A0206	Illite	0.69	Ankerite	0.31	265.38	1.03	0	R
DA98B10207	DA980207	30/07/98	EL 5062	B	DA98B1A0207	Illite	1	NULL	NULL	106.49	0.995	0	R
DA98B10208	DA980208	30/07/98	EL 5062	B	DA98B1A0208	Illite	0.673	Paragonite	0.327	60.95	0.999	0	R
DA98B10209	DA980209	30/07/98	EL 5062	B	DA98B1A0209	Illite	0.871	Gypsum	0.129	144.48	0.999	0	R
DA98B10210	DA980210	30/07/98	EL 5062	B	DA98B1A0210	Kaolinite	0.519	Illite	0.481	53.22	1.01	0	R
DA98B10211	DA980211	30/07/98	EL 5062	B	DA98B1A0211	Muscovite	0.642	Halloysite	0.358	77.55	1.01	0	R
DA98B10212	DA980212	30/07/98	EL 5062	B	DA98B1A0212	Kaolinite	1	NULL	NULL	97.35	1.03	0	R
DA98B10213	DA980213	30/07/98	EL 5062	B	DA98B1A0213	Illite	1	NULL	NULL	80.82	1	0	R
DA98B10214	DA980214	30/07/98	EL 5062	B	DA98B1A0214	Halloysite	1	NULL	NULL	114.38	1.03	0	R
DA98B10215	DA980215	30/07/98	EL 5062	B	DA98B1A0215	Paragonite	0.572	Muscovite	0.428	74.39	0.989	0	R
DA98B10216	DA980216	30/07/98	EL 5062	B	DA98B1A0216	Dickite	0.54	Paragonite	0.46	50.39	0.848	0	R
DA98B10217	DA980217	30/07/98	EL 5062	B	DA98B1A0217	Paragonite	0.521	Illite	0.479	30.81	0.968	0	R
DA98B10218	DA980218	30/07/98	EL 5062	B	DA98B1A0218	Dickite	0.689	Illite	0.311	46.64	0.836	0	R
DA98B10219	DA980219	30/07/98	EL 5062	B	DA98B1A0219	Illite	0.876	Gypsum	0.124	144.52	0.997	0	R
DA98B10220	DA980220	30/07/98	EL 5062	B	DA98B1A0220	Kaolinite	0.733	Paragonite	0.267	84.84	1.01	0	R
DA98B10221	DA980221	30/07/98	EL 5062	B	DA98B1A0221	Illite	1	NULL	NULL	16.5	0.988	0	R
DA98B10222	DA980222	30/07/98	EL 5062	B	DA98B1A0222	Illite	1	NULL	NULL	123.47	1	0	R
DA98B10223	DA980223	30/07/98	EL 5062	B	DA98B1A0223	Illite	1	NULL	NULL	66.11	1	0	R
DA98B10224	DA980224	30/07/98	EL 5062	B	DA98B1A0224	Illite	0.52	Kaolinite	0.48	176.23	1	0	R
DA98B10225	DA980225	31/07/98	EL 5062	B	DA98B1A0225	Paragonite	0.57	Illite	0.43	71.27	0.986	0	R
DA98B10226	DA980226	31/07/98	EL 5062	B	DA98B1A0226	Illite	0.918	Gypsum	0.0816	101.64	0.998	0	R
DA98B10227	DA980227	31/07/98	EL 5062	B	DA98B1A0227	Illite	0.883	Gypsum	0.117	85.54	1	0	R
DA98B10228	DA980228	31/07/98	EL 5062	B	DA98B1A0228	Kaolinite	1	NULL	NULL	185.52	1.01	0	R
DA98B10229	DA980229	31/07/98	EL 5062	B	DA98B1A0229	Illite	0.942	Gypsum	0.0584	39.87	1	0	R
DA98B10230	DA980230	31/07/98	EL 5062	B	DA98B1A0230	Illite	1	NULL	NULL	97.98	0.996	0	R
DA98B10231	DA980231	31/07/98	EL 5062	B	DA98B1A0231	Halloysite	0.731	Gypsum	0.269	220.49	0.996	0	R
DA98B10232	DA980232	31/07/98	EL 5062	B	DA98B1A0232	Paragonite	0.638	Muscovite	0.362	47.23	0.977	0	R
DA98B10233	DA980233	31/07/98	EL 5062	B	DA98B1A0233	Paragonite	0.532	Illite	0.468	58.1	0.986	0	R
DA98B10234	DA980234	31/07/98	EL 5062	B	DA98B1A0234	Paragonite	1	NULL	NULL	177.36	0.988	0	R
DA98B10235	DA980235	31/07/98	EL 5062	B	DA98B1A0235	NULL	NULL	NULL	NULL	NULL	1	0	R
DA98B10236	DA980236	31/07/98	EL 5062	B	DA98B1A0236	Halloysite	1	NULL	NULL	132.61	1.04	0	R
DA98B10237	DA980237	1/08/98	EL 5062	B	DA98B1A0237	Paragonite	0.845	Gypsum	0.155	153.01	0.999	0	R
DA98B10238	DA980238	1/08/98	EL 5062	B	DA98B1A0238	Kaolinite	1	NULL	NULL	153.26	1.05	0	R
DA98B10239	DA980239	1/08/98	EL 5062	B	DA98B1A0239	Paragonite	1	NULL	NULL	96	0.997	0	R
DA98B10240	DA980240	1/08/98	EL 5062	B	DA98B1A0240	Paragonite	0.547	Illite	0.453	61.49	0.986	0	R
DA98B10241	DA980241	1/08/98	EL 5062	B	DA98B1A0241	Dickite	0.602	Paragonite	0.398	103.12	0.922	0	R
DA98B10242	DA980242	1/08/98	EL 5062	B	DA98B1A0242	Paragonite	1	NULL	NULL	115.94	0.994	0	R
DA98B10243	DA980243	1/08/98	EL 5062	B	DA98B1A0243	Paragonite	0.875	Gypsum	0.125	146.59	0.987	0	R

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DA98B10244	DA980244	1/08/98	EL 5062	B	DA98B1A0244	Illite	0.872	Gypsum	0.128	124.76	0.993	0	R
DA98B10245	DA980245	1/08/98	EL 5062	B	DA98B1A0245	Illite	0.546	Paragonite	0.454	44.74	0.988	0	R
DA98B10246	DA980246	1/08/98	EL 5062	B	DA98B1A0246	Halloysite	0.866	Gypsum	0.134	277	1.02	0	R
DA98B10247	DA980247	1/08/98	EL 5061	B	DA98B1A0247	Illite	1	NULL	NULL	18.23	0.99	0	R
DA98C10248	DA980248	4/08/98	EL 5061	C	DA98C1A0248	Illite	1	NULL	NULL	47.31	0.993	0	R
DA98C10249	DA980249	4/08/98	EL 5061	C	DA98C1A0249	Illite	0.724	Paragonite	0.276	20.09	0.966	0	R
DA98C10250	DA980250	4/08/98	EL 5061	C	DA98C1A0250	Illite	0.941	Gypsum	0.0586	54.16	0.99	0	R
DA98C10251	DA980251	4/08/98	EL 5061	C	DA98C1A0251	Muscovite	0.535	Paragonite	0.465	71.12	0.999	0	R
DA98C20252	DA980252	4/08/98	EL 5061	C	DA98C2A0252	NULL	NULL	NULL	NULL	NULL	1	0	R
DA98C10252	DA980252	4/08/98	EL 5061	C	DA98C1A0252	Illite	0.811	Gypsum	0.189	304.87	0.999	0	R
DA98C10253	DA980253	4/08/98	EL 5061	C	DA98C1A0253	Illite	0.714	Paragonite	0.286	34.06	0.983	0	R
DA98C10254	DA980254	4/08/98	EL 5061	C	DA98C1A0254	Illite	0.635	Nacrite	0.365	67.95	0.981	0	R
DA98C10255	DA980255	4/08/98	EL 5061	C	DA98C1A0255	Dickite	0.741	Muscovite	0.259	62.53	0.886	0	R
DA98C10256	DA980256	4/08/98	EL 5061	C	DA98C1A0256	Illite	1	NULL	NULL	63.94	1	0	R
DA98C10257	DA980257	4/08/98	EL 5061	C	DA98C1A0257	Illite	1	NULL	NULL	33.19	1	0	R
DA98C10258	DA980258	4/08/98	EL 5061	C	DA98C1A0258	Illite	1	NULL	NULL	51.66	1	0	R
DA98C10259	DA980259	4/08/98	EL 5061	C	DA98C1A0259	Illite	0.616	Paragonite	0.384	60.33	0.984	0	R
DA98C10260	DA980260	4/08/98	EL 5061	C	DA98C1A0260	Illite	1	NULL	NULL	60.18	0.998	0	R
DA98C10261	DA980261	4/08/98	EL 5061	C	DA98C1A0261	Muscovite	0.545	Paragonite	0.455	78.45	0.99	0	R
DA98C10262	DA980262	4/08/98	EL 5061	C	DA98C1A0262	Paragonite	0.54	Muscovite	0.46	57.29	0.981	0	R
DA98C10263	DA980263	5/08/98	EL 5061	C	DA98C1A0263	Illite	1	NULL	NULL	90.06	1	0	R
DA98C10264	DA980264	5/08/98	EL 5061	C	DA98C1A0264	Illite	0.886	Gypsum	0.114	135.45	1	0	R
DA98C10265	DA980265	5/08/98	EL 5061	C	DA98C1A0265	Illite	1	NULL	NULL	61.51	0.997	0	R
DA98C10266	DA980266	5/08/98	EL 5061	C	DA98C1A0266	Illite	1	NULL	NULL	28.16	0.988	0	R
DA98C10267	DA980267	5/08/98	EL 5061	C	DA98C1A0267	Illite	0.588	Paragonite	0.412	52.8	0.986	0	R
DA98C10268	DA980268	5/08/98	EL 5061	C	DA98C1A0268	Illite	1	NULL	NULL	57.77	0.994	0	R
DA98C10269	DA980269	6/08/98	EL 5061	C	DA98C1A0269	Kaolinite	0.54	Muscovite	0.46	103.95	1.02	0	R
DA98C10270	DA980270	6/08/98	EL 5061	C	DA98C1A0270	Kaolinite	0.627	Muscovite	0.373	96.71	1.01	0	R
DA98C10271	DA980271	6/08/98	EL 5061	C	DA98C1A0271	Muscovite	0.679	Halloysite	0.321	57.61	1	0	R
DA98C10272	DA980272	6/08/98	EL 5061	C	DA98C1A0272	Illite	0.829	Gypsum	0.171	98.94	1	0	R
DA98C10273	DA980273	6/08/98	EL 5061	C	DA98C1A0273	Illite	0.786	Kaolinite	0.214	68.8	1	0	R
DA98C10274	DA980274	6/08/98	EL 5061	C	DA98C1A0274	Muscovite	0.684	Halloysite	0.316	97.55	1.01	0	R
DA98C10275	DA980275	6/08/98	EL 5061	C	DA98C1A0275	Illite	0.852	Gypsum	0.148	106.83	1	0	R
DA98C10276	DA980276	6/08/98	EL 5061	C	DA98C1A0276	Illite	0.56	Kaolinite	0.44	55.02	1.01	0	R
DA98C10277	DA980277	6/08/98	EL 5061	C	DA98C1A0277	Illite	1	NULL	NULL	102.4	0.996	0	R
DA98C10278	DA980278	6/08/98	EL 5061	C	DA98C1A0278	Illite	0.535	Kaolinite	0.465	94.31	1.01	0	R
DA98C10279	DA980279	6/08/98	EL 5061	C	DA98C1A0279	Illite	1	NULL	NULL	91.78	1	0	R
DA98C10280	DA980280	6/08/98	EL 5061	C	DA98C1A0280	Illite	1	NULL	NULL	59.37	0.998	0	R
DA98C10281	DA980281	6/08/98	EL 5061	C	DA98C1A0281	Illite	0.656	Halloysite	0.344	72.24	0.996	0	R
DA98C10282	DA980282	6/08/98	EL 5061	C	DA98C1A0282	Illite	1	NULL	NULL	64.11	0.988	0	R
DA98C10283	DA980283	6/08/98	EL 5061	C	DA98C1A0283	Illite	1	NULL	NULL	99.53	0.984	0	R
DA98C10284	DA980284	6/08/98	EL 5061	C	DA98C1A0284	Kaolinite	0.655	Illite	0.345	78.57	1.01	0	R
DA98C10285	DA980285	6/08/98	EL 5061	C	DA98C1A0285	Illite	0.746	Halloysite	0.254	46.82	1	0	R
DA98C10286	DA980286	6/08/98	EL 5061	C	DA98C1A0286	Illite	1	NULL	NULL	36.3	1	0	R
DA98C10287	DA980287	6/08/98	EL 5061	C	DA98C1A0287	Nacrite	0.515	Muscovite	0.485	28.38	0.986	0	R
DA98C10288	DA980288	6/08/98	EL 5061	C	DA98C1A0288	Nacrite	1	NULL	NULL	78.79	0.948	0	R

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DA98C10289	DA980289	7/08/98	EL 5061	C	DA98C1A0289	Nacrite	0.617	Illite	0.383	54.92	0.974	0	R
DA98C10290	DA980290	7/08/98	EL 5061	C	DA98C1A0290	Nacrite	1	NULL	NULL	166.04	0.907	0	R
DA98C10291	DA980291	7/08/98	EL 5061	C	DA98C1A0291	Nacrite	0.59	Dickite	0.41	94.87	0.914	0	R
DA98C10292	DA980292	7/08/98	EL 5061	C	DA98C1A0292	Nacrite	0.621	Dickite	0.379	97.22	0.906	0	R
DA98C10293	DA980293	7/08/98	EL 5061	C	DA98C1A0293	Nacrite	0.704	Halloysite	0.296	106.8	0.934	0	R
DA98C10294	DA980294	7/08/98	EL 5061	C	DA98C1A0294	Nacrite	1	NULL	NULL	146.5	0.924	0	R
DA98C10295	DA980295	7/08/98	EL 5061	C	DA98C1A0295	Illite	1	NULL	NULL	49.79	0.994	0	R
DA98C10296	DA980296	7/08/98	EL 5061	C	DA98C1A0296	Illite	1	NULL	NULL	82.39	1	0	R
DA98C10297	DA980297	7/08/98	EL 5061	C	DA98C1A0297	Muscovite	0.854	Halloysite	0.146	56.87	1.01	0	R
DA98C10298	DA980298	7/08/98	EL 5061	C	DA98C1A0298	Illite	1	NULL	NULL	47.35	1	0	R
DA98C10299	DA980299	7/08/98	EL 5061	C	DA98C1A0299	Illite	0.722	Halloysite	0.278	73.03	1.01	0	R
DA98C10300	DA980300	7/08/98	EL 5061	C	DA98C1A0300	Illite	1	NULL	NULL	46.62	0.971	0	R
DA98C10301	DA980301	7/08/98	EL 5061	C	DA98C1A0301	Nacrite	0.596	Dickite	0.404	151.03	0.916	0	R
DA98B10302	DA980302	25/08/98	EL 5061	B	DA98B1A0302	Muscovite	1	NULL	NULL	197.55	1	0	R
DA98B10303	DA980303	25/08/98	EL 5061	B	DA98B1A0303	Kaolinite	1	NULL	NULL	188.3	1	0	R
DA98B10304	DA980304	25/08/98	EL 5061	B	DA98B1A0304	Paragonite	1	NULL	NULL	79.8	0.966	0	R
DA98B10305	DA980305	25/08/98	EL 5062	B	DA98B1A0305	Kaolinite	0.755	Nacrite	0.245	47.43	1.01	0	R
DA98B10306	DA980306	25/08/98	EL 5062	B	DA98B1A0306	NULL	NULL	NULL	NULL	NULL	0.999	0	R
DA98B10307	DA980307	25/08/98	EL 5062	B	DA98B1A0307	Illite	0.923	Gypsum	0.0769	73.04	1	0	R
DA98B10308	DA980308	25/08/98	EL 5062	B	DA98B1A0308	Illite	0.553	Paragonite	0.447	59.19	0.992	0	R
DA98B10309	DA980309	25/08/98	EL 5062	B	DA98B1A0309	Illite	0.807	Gypsum	0.193	293.77	0.999	0	R
DA98B10310	DA980310	25/08/98	EL 5062	B	DA98B1A0310	Paragonite	0.627	Muscovite	0.373	94.94	0.996	0	R
DA98B10311	DA980311	25/08/98	EL 5062	B	DA98B1A0311	Paragonite	0.529	Muscovite	0.471	62.03	0.995	0	R
DA98B10312	DA980312	25/08/98	EL 5062	B	DA98B1A0312	Paragonite	0.556	Muscovite	0.444	101.56	0.992	0	R
DA98B10313	DA980313	25/08/98	EL 5062	B	DA98B1A0313	Illite	0.875	Gypsum	0.125	184.72	0.995	0	R
DA98B10314	DA980314	26/08/98	EL 5062	B	DA98B1A0314	Muscovite	0.555	Paragonite	0.445	29.66	0.982	0	R
DA98B10315	DA980315	26/08/98	EL 5062	B	DA98B1A0315	Paragonite	0.502	Muscovite	0.498	72.83	0.994	0	R
DA98B10316	DA980316	26/08/98	EL 5062	B	DA98B1A0316	Illite	0.908	Gypsum	0.092	83.36	1	0	R
DA98B10317	DA980317	26/08/98	EL 5062	B	DA98B1A0317	Paragonite	0.623	Muscovite	0.377	35.28	0.955	0	R
DA98B10318	DA980318	26/08/98	EL 5062	B	DA98B1A0318	Illite	0.843	Halloysite	0.157	38.12	0.999	0	R
DA98B10319	DA980319	26/08/98	EL 5062	B	DA98B1A0319	Paragonite	0.534	Illite	0.466	28.93	0.947	0	R
DA98B10320	DA980320	26/08/98	EL 5061	B	DA98B1A0320	Paragonite	0.511	Illite	0.489	47.27	0.987	0	R
DA98B10321	DA980321	26/08/98	EL 5061	B	DA98B1A0321	Illite	0.793	Halloysite	0.207	40.01	0.989	0	R
DA98B10322	DA980322	26/08/98	EL 5061	B	DA98B1A0322	Kaolinite	0.696	Muscovite	0.304	117.83	1.01	0	R
DA98B10323	DA980323	26/08/98	EL 5061	B	DA98B1A0323	Kaolinite	1	NULL	NULL	89.72	1.05	0	R
DA98B10324	DA980324	26/08/98	EL 5061	B	DA98B1A0324	Illite	1	NULL	NULL	85.13	1	0	R
DA98B10325	DA980325	26/08/98	EL 5061	B	DA98B1A0325	Illite	0.557	Paragonite	0.443	50.97	0.992	0	R
DA98B10326	DA980326	26/08/98	EL 5061	B	DA98B1A0326	Paragonite	0.552	Muscovite	0.448	83.31	0.995	0	R
DA98B10327	DA980327	26/08/98	EL 5061	B	DA98B1A0327	Kaolinite	0.578	Illite	0.422	57.85	1.02	0	R
DA98B10328	DA980328	26/08/98	EL 5061	B	DA98B1A0328	Illite	0.83	Gypsum	0.17	238.11	0.995	0	R
DA98B10329	DA980329	26/08/98	EL 5062	B	DA98B1A0329	Muscovite	0.626	Gypsum	0.374	328.11	1	0	R
DA98B10330	DA980330	26/08/98	EL 5062	B	DA98B1A0330	Kaolinite	0.659	Illite	0.341	59.58	1.04	0	R
DA98B10331	DA980331	26/08/98	EL 5062	B	DA98B1A0331	Illite	1	NULL	NULL	117.47	0.997	0	R
DA98B10332	DA980332	26/08/98	EL 5062	B	DA98B1A0332	Illite	0.816	Gypsum	0.184	326.18	1	0	R
DA98B10333	DA980333	27/08/98	EL 5062	B	DA98B1A0333	Illite	1	NULL	NULL	139.5	1.01	0	R
DA98B10334	DA980334	27/08/98	EL 5062	B	DA98B1A0334	Illite	0.702	Kaolinite	0.298	41.04	1.01	0	R

Sample Number	Station ID	Date	EL Name	Sample Code	Pima File	TSA Mineral 1	TSA Weight 1	Tsa Mineral 2	TSA Weight 2	TSA Error	Kaolinite Crystallinity	AlOH Crystallinity	Representation
DA98B10335	DA980335	27/08/98	EL 5062	B	DA98B1A0335	Paragonite	0.648	Muscovite	0.352	72.66	0.977	0	R
DA98B10336	DA980336	27/08/98	EL 5062	B	DA98B1A0336	Muscovite	0.535	Paragonite	0.465	80.13	0.994	0	R
DA98B10337	DA980337	27/08/98	EL 5062	B	DA98B1A0337	Illite	1	NULL	NULL	65.63	0.999	0	R
DA98B10338	DA980338	27/08/98	EL 5062	B	DA98B1A0338	Illite	0.65	Paragonite	0.35	63.82	0.99	0	R
DA98B10339	DA980339	27/08/98	EL 5062	B	DA98B1A0339	Illite	0.778	Gypsum	0.222	346.82	0.999	0	R
DA98B10340	DA980340	27/08/98	EL 5062	B	DA98B1A0340	Paragonite	0.585	Muscovite	0.415	76.43	0.991	0	R
DA98B10341	DA980341	27/08/98	EL 5062	B	DA98B1A0341	Illite	1	NULL	NULL	63.4	1	0	R
DA98B10342	DA980342	27/08/98	EL 5062	B	DA98B1A0342	Paragonite	0.772	Halloysite	0.228	51.37	0.969	0	R
DA98B10343	DA980343	27/08/98	EL 5062	B	DA98B1A0343	Paragonite	0.618	Muscovite	0.382	72.36	0.983	0	R
DA98B10344	DA980344	27/08/98	EL 5062	B	DA98B1A0344	Illite	0.55	Kaolinite	0.45	52.48	1.03	0	R
DA98B10345	DA980345	27/08/98	EL 5062	B	DA98B1A0345	Illite	0.56	Paragonite	0.44	17.95	0.942	0	R
DA98B10346	DA980346	27/08/98	EL 5062	B	DA98B1A0346	Illite	0.795	Kaolinite	0.205	63.99	0.992	0	R
DA98B10347	DA980347	27/08/98	EL 5062	B	DA98B1A0347	Illite	0.672	Paragonite	0.328	34.53	0.975	0	R
DA98B10348	DA980348	27/08/98	EL 5062	B	DA98B1A0348	Illite	0.81	Kaolinite	0.19	44.21	0.995	1.26	R
DA98B10349	DA980349	27/08/98	EL 5062	B	DA98B1A0349	Illite	1	NULL	NULL	85.23	1	1.06	R
DA98B10350	DA980350	27/08/98	EL 5061	B	DA98B1A0350	Paragonite	0.557	Muscovite	0.443	109.61	0.997	1.12	R
DA98B10351	DA980351	27/08/98	EL 5061	B	DA98B1A0351	Illite	0.563	Paragonite	0.437	22.47	0.978	1.38	R
DA98B10352	DA980352	27/08/98	EL 5061	B	DA98B1A0352	Illite	0.589	Paragonite	0.411	51.56	0.972	1.36	R
DA98B10353	DA980353	27/08/98	EL 5061	B	DA98B1A0353	Illite	0.895	Gypsum	0.105	119.76	0.997	1.09	R
DA98B10354	DA980354	27/08/98	EL 5061	B	DA98B1A0354	Illite	0.711	Paragonite	0.289	38.44	0.985	1.18	R
DA98B10355	DA980355	27/08/98	EL 5061	B	DA98B1A0355	Kaolinite	1	NULL	NULL	59.14	1.07	1.32	R
DA98B10356	DA980356	28/08/98	EL 5062	B	DA98B1A0356	Illite	0.938	Gypsum	0.062	50	0.992	1.11	R
DA98B10357	DA980357	28/08/98	EL 5061	B	DA98B1A0357	Illite	0.653	Paragonite	0.347	55.72	0.974	1.27	R
DA98B10358	DA980358	28/08/98	EL 5061	B	DA98B1A0358	Paragonite	0.546	Illite	0.454	62.51	0.982	1.23	R
DA98B10359	DA980359	28/08/98	EL 5062	B	DA98B1A0359	Paragonite	0.507	Muscovite	0.493	67.65	0.994	1.14	R
DA98B10360	DA980360	28/08/98	EL 5062	B	DA98B1A0360	Illite	1	NULL	NULL	104.56	0.998	1.09	R
DA98B10361	DA980361	28/08/98	EL 5062	B	DA98B1A0361	Paragonite	0.568	Muscovite	0.432	110.62	0.989	1.13	R
DA98B10362	DA980362	28/08/98	EL 5062	B	DA98B1A0362	Illite	0.904	Gypsum	0.0964	89.03	0.989	1.09	R
DA98B10363	DA980363	28/08/98	EL 5062	B	DA98B1A0363	Muscovite	1	NULL	NULL	65.5	1.01	1.1	R
DA98B10364	DA980364	28/08/98	EL 5062	B	DA98B1A0364	Illite	0.64	Paragonite	0.36	21.08	0.945	1.58	R
DA98B10365	DA980365	28/08/98	EL 5062	B	DA98B1A0365	Illite	0.726	Paragonite	0.274	26.24	0.99	1.31	R
DA98B10366	DA980366	28/08/98	EL 5062	B	DA98B1A0366	Illite	0.863	Kaolinite	0.137	33.33	0.987	1.28	R
DA98B10367	DA980367	28/08/98	EL 5062	B	DA98B1A0367	Illite	1	NULL	NULL	48.39	0.991	1.21	R
DA98B10368	DA980368	28/08/98	EL 5062	B	DA98B1A0368	Illite	1	NULL	NULL	102.07	0.995	1.05	R
DA98B10369	DA980369	28/08/98	EL 5062	B	DA98B1A0369	Illite	0.894	Gypsum	0.106	47.99	0.993	1.09	R
DA98B10370	DA980370	28/08/98	EL 5061	B	DA98B1A0370	Muscovite	0.513	Paragonite	0.487	60.11	0.998	1.16	R
DA98B10371	DA980371	28/08/98	EL 5061	B	DA98B1A0371	Illite	1	NULL	NULL	124.16	0.999	1.03	R
DA98B10372	DA980372	28/08/98	EL 5061	B	DA98B1A0372	NULL	NULL	NULL	NULL	NULL	0.995	1.02	R
DA98B10373	DA980373	28/08/98	EL 5061	B	DA98B1A0373	Illite	0.69	Paragonite	0.31	51.17	0.978	1.23	R
DA98B10374	DA980374	28/08/98	EL 5061	B	DA98B1A0374	Illite	0.554	Paragonite	0.446	55.06	0.987	1.11	R
DA98B10375	DA980375	28/08/98	EL 5061	B	DA98B1A0375	Illite	1	NULL	NULL	222.92	1	1.06	R
DA98B10376	DA980376	29/08/98	EL 5062	B	DA98B1A0376	Dickite	0.574	Illite	0.426	74.56	0.932	1.17	R
DA98B10377	DA980377	29/08/98	EL 5062	B	DA98B1A0377	Illite	0.695	Dickite	0.305	58.92	0.949	1.15	R
DA98B10378	DA980378	29/08/98	EL 5062	B	DA98B1A0378	Illite	0.654	Paragonite	0.346	35.32	0.982	1.18	R
DA98B10379	DA980379	29/08/98	EL 5062	B	DA98B1A0379	Illite	0.699	Paragonite	0.301	47.97	0.994	1.21	R
DA98B10380	DA980380	29/08/98	EL 5062	B	DA98B1A0380	Illite	0.663	Paragonite	0.337	27.8	0.982	1.26	R

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DA98B10381	DA980381	29/08/98	EL 5062	B	DA98B1A0381	Illite	0.525	Paragonite	0.475	45.23	0.987	1.16	R
DA98B10382	DA980382	29/08/98	EL 5061	B	DA98B1A0382	Illite	0.78	Kaolinite	0.22	69.72	0.988	1.16	R
DA98B10383	DA980383	29/08/98	EL 5061	B	DA98B1A0383	Illite	0.726	Paragonite	0.274	42.28	0.993	1.18	R
DA98B10384	DA980384	29/08/98	EL 5061	B	DA98B1A0384	Paragonite	0.618	Muscovite	0.382	39.59	0.959	1.4	R
DA98B10385	DA980385	29/08/98	EL 5061	B	DA98B1A0385	Illite	1	NULL	NULL	170.29	0.996	1.13	R
DA98B10386	DA980386	29/08/98	EL 5061	B	DA98B1A0386	Kaolinite	0.576	Halloysite	0.424	47.53	1.02	1.31	R
DA98B10387	DA980387	29/08/98	EL 5062	B	DA98B1A0387	Illite	0.682	Kaolinite	0.318	57.57	1.01	1.16	R
DA98B10388	DA980388	29/08/98	EL 5062	B	DA98B1A0388	Illite	1	NULL	NULL	59.96	0.996	1.07	R
DA98B10389	DA980389	29/08/98	EL 5062	B	DA98B1A0389	Illite	1	NULL	NULL	58.19	0.988	1.2	R
DA98B10390	DA980390	29/08/98	EL 5062	B	DA98B1A0390	Illite	0.949	Gypsum	0.0507	30.45	0.995	1.22	R
DA98B10391	DA980391	29/08/98	EL 5062	B	DA98B1A0391	Illite	0.707	Paragonite	0.293	24.47	0.975	1.32	R
DA98B10392	DA980392	29/08/98	EL 5062	B	DA98B1A0392	Illite	1	NULL	NULL	64.54	0.998	1.09	R
DA98B10393	DA980393	29/08/98	EL 5062	B	DA98B1A0393	Illite	0.791	Kaolinite	0.209	77.06	1	1.1	R
DA98B10394	DA980394	29/08/98	EL 5062	B	DA98B1A0394	Kaolinite	0.532	Illite	0.468	66.61	1.02	1.12	R
DA98B10395	DA980395	29/08/98	EL 5062	B	DA98B1A0395	Illite	0.67	Gypsum	0.33	120.84	0.999	1.02	R
DA98B10396	DA980396	29/08/98	EL 5062	B	DA98B1A0396	Illite	0.596	Paragonite	0.404	63.04	0.989	1.13	R
DA98B10397	DA980397	29/08/98	EL 5061	B	DA98B1A0397	Illite	1	NULL	NULL	92.69	0.99	1.15	R
DA98C10398	DA980398	30/08/98	EL 5061	C	DA98C1A0398	Kaolinite	1	NULL	NULL	75.76	1.07	1.53	R
DA98C10399	DA980399	30/08/98	EL 5061	C	DA98C1A0399	Kaolinite	1	NULL	NULL	167.26	1.02	1.13	R
DA98B10400	DA980400	30/07/98	EL 5062	B	DA98B1A0400	Paragonite	0.588	Halloysite	0.412	95.21	1	0	R
DA98B10401	DA980401	30/07/98	EL 5062	B	DA98B1A0401	Illite	1	NULL	NULL	109.81	1	0	R
DA98B10402	DA980402	30/07/98	EL 5062	B	DA98B1A0402	Illite	0.825	Gypsum	0.175	336.41	0.999	0	R
DA98B10403	DA980403	30/07/98	EL 5062	B	DA98B1A0403	Illite	1	NULL	NULL	39.18	0.999	0	R
DA98B10404	DA980404	30/07/98	EL 5062	B	DA98B1A0404	Illite	1	NULL	NULL	73.54	0.992	0	R
DA98B10405	DA980405	30/07/98	EL 5062	B	DA98B1A0405	Halloysite	0.544	Muscovite	0.456	107.14	1.02	0	R
DA98B10406	DA980406	31/07/98	EL 5062	B	DA98B1A0406	Paragonite	1	NULL	NULL	54.52	0.968	0	R
DA98B10407	DA980407	31/07/98	EL 5062	B	DA98B1A0407	Paragonite	1	NULL	NULL	49.5	0.94	0	R
DA98B10408	DA980408	31/07/98	EL 5062	B	DA98B1A0408	Paragonite	1	NULL	NULL	124.71	0.995	0	R
DA98B10409	DA980409	31/07/98	EL 5062	B	DA98B1A0409	Illite	1	NULL	NULL	67.96	0.994	0	R
DA98B10410	DA980410	31/07/98	EL 5062	B	DA98B1A0410	NULL	NULL	NULL	NULL	NULL	1	0	R
DA98B10411	DA980411	31/07/98	EL 5062	B	DA98B1A0411	Cerussite	0.639	Paragonite	0.361	243.55	1	0	R
DA98B10412	DA980412	31/07/98	EL 5062	B	DA98B1A0412	Muscovite	1	NULL	NULL	32.19	1	0	R
DA98B10413	DA980413	31/07/98	EL 5062	B	DA98B1A0413	Nacrite	0.593	Illite	0.407	119.77	0.916	0	R
DA98B10414	DA980414	31/07/98	EL 5062	B	DA98B1A0414	Paragonite	0.742	Halloysite	0.258	71.89	0.986	0	R
DA98B10415	DA980415	31/07/98	EL 5062	B	DA98B1A0415	Illite	0.925	Gypsum	0.0753	55.23	1	0	R
DA98B10416	DA980416	31/07/98	EL 5062	B	DA98B1A0416	NULL	NULL	NULL	NULL	NULL	1.01	0	R
DA98B10417	DA980417	31/07/98	EL 5062	B	DA98B1A0417	Paragonite	1	NULL	NULL	101.54	0.989	0	R
DA98B10418	DA980418	25/08/98	EL 5061	B	DA98B1A0418	Halloysite	1	NULL	NULL	193.32	1.02	1.22	R
DA98B10419	DA980419	25/08/98	EL 5061	B	DA98B1A0419	Illite	1	NULL	NULL	235.87	1	1.07	R
DA98B10420	DA980420	25/08/98	EL 5061	B	DA98B1A0420	Illite	0.87	Gypsum	0.13	138.24	0.998	1.1	R
DA98B10421	DA980421	25/08/98	EL 5062	B	DA98B1A0421	NULL	NULL	NULL	NULL	NULL	1.01	1.02	R
DA98B10422	DA980422	25/08/98	EL 5062	B	DA98B1A0422	Halloysite	0.806	Gypsum	0.194	324.49	1.01	1.08	R
DA98B10423	DA980423	25/08/98	EL 5062	B	DA98B1A0423	Illite	0.89	Gypsum	0.11	66.76	1	1.09	R
DA98B10424	DA980424	25/08/98	EL 5062	B	DA98B1A0424	Illite	0.917	Gypsum	0.0827	91.1	0.992	1.11	R
DA98B10425	DA980425	25/08/98	EL 5062	B	DA98B1A0425	Gypsum	0.801	Topaz	0.199	578.6	1.01	1.12	R
DA98B10426	DA980426	25/08/98	EL 5062	B	DA98B1A0426	Illite	0.787	Kaolinite	0.213	70.82	0.995	1.13	R

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DA98B10427	DA980427	25/08/98	EL 5062	B	DA98B1A0427	Paragonite	0.632	Illite	0.368	49.72	0.971	1.25	R
DA98B10428	DA980428	25/08/98	EL 5062	B	DA98B1A0428	Paragonite	0.643	Illite	0.357	39.09	0.972	1.26	R
DA98B10429	DA980429	25/08/98	EL 5062	B	DA98B1A0429	NULL	NULL	NULL	NULL	NULL	1.01	1.04	R
DA98B10430	DA980430	25/08/98	EL 5062	B	DA98B1A0430	Illite	0.568	Paragonite	0.432	65.56	0.992	1.19	R
DA98B10431	DA980431	26/08/98	EL 5062	B	DA98B1A0431	Illite	0.903	Gypsum	0.0974	132.46	0.997	1.07	R
DA98B10432	DA980432	26/08/98	EL 5062	B	DA98B1A0432	Illite	1	NULL	NULL	34.11	1	1.04	R
DA98B10433	DA980433	26/08/98	EL 5062	B	DA98B1A0433	Illite	0.54	Paragonite	0.46	46.69	0.981	1.17	R
DA98B10434	DA980434	26/08/98	EL 5062	B	DA98B1A0434	Paragonite	0.544	Illite	0.456	41.72	0.962	1.33	R
DA98B10435	DA980435	26/08/98	EL 5062	B	DA98B1A0435	Paragonite	0.503	Phengite	0.497	138.33	1	1.25	R
DA98B10436	DA980436	26/08/98	EL 5062	B	DA98B1A0436	Paragonite	0.861	Gypsum	0.139	223.71	0.996	1.04	R
DA98B10437	DA980437	26/08/98	EL 5062	B	DA98B1A0437	NULL	NULL	NULL	NULL	NULL	1.01	1.02	R
DA98B10438	DA980438	26/08/98	EL 5061	B	DA98B1A0438	Halloysite	0.572	Paragonite	0.428	111.08	1.01	1.13	R
DA98B10439	DA980439	26/08/98	EL 5061	B	DA98B1A0439	Illite	0.916	Gypsum	0.0843	67.3	1.01	1.08	R
DA98B10440	DA980440	26/08/98	EL 5061	B	DA98B1A0440	Halloysite	0.53	Muscovite	0.47	94.98	1.04	1.18	R
DA98B10441	DA980441	26/08/98	EL 5061	B	DA98B1A0441	Illite	1	NULL	NULL	64.53	0.991	1.11	R
DA98B10442	DA980442	26/08/98	EL 5061	B	DA98B1A0442	Paragonite	0.613	Muscovite	0.387	86.23	0.988	1.14	R
DA98B10443	DA980443	26/08/98	EL 5061	B	DA98B1A0443	Paragonite	1	NULL	NULL	139.08	0.988	1.1	R
DA98B10444	DA980444	26/08/98	EL 5061	B	DA98B1A0444	Paragonite	1	NULL	NULL	136.85	0.991	1.1	R
DA98B10445	DA980445	26/08/98	EL 5061	B	DA98B1A0445	Paragonite	1	NULL	NULL	151.65	0.992	1.08	R
DA98B10446	DA980446	26/08/98	EL 5061	B	DA98B1A0446	Illite	0.656	Paragonite	0.344	34.14	0.982	1.22	R
DA98B10447	DA980447	26/08/98	EL 5062	B	DA98B1A0447	Kaolinite	0.593	Illite	0.407	76.95	1.03	1.25	R
DA98B10448	DA980448	26/08/98	EL 5062	B	DA98B1A0448	Illite	1	NULL	NULL	153.86	1	1.12	R
DA98B10449	DA980449	26/08/98	EL 5062	B	DA98B1A0449	Kaolinite	0.583	Illite	0.417	98.06	1.02	1.19	R
DA98B10450	DA980450	26/08/98	EL 5062	B	DA98B1A0450	Illite	0.509	Paragonite	0.491	57.41	0.985	1.12	R
DA98B10451	DA980451	27/08/98	EL 5062	B	DA98B1A0451	Kaolinite	0.592	Paragonite	0.408	198.87	0.996	1.11	R
DA98B10452	DA980452	27/08/98	EL 5062	B	DA98B1A0452	Paragonite	0.61	Illite	0.39	23.85	0.934	1.39	R
DA98B10453	DA980453	27/08/98	EL 5062	B	DA98B1A0453	Illite	1	NULL	NULL	41.95	0.997	1.17	R
DA98B10454	DA980454	27/08/98	EL 5062	B	DA98B1A0454	Paragonite	0.616	Halloysite	0.384	104.08	0.998	1.13	R
DA98B10455	DA980455	27/08/98	EL 5062	B	DA98B1A0455	Illite	0.657	Paragonite	0.343	20.55	0.969	1.25	R
DA98B10456	DA980456	27/08/98	EL 5062	B	DA98B1A0456	Paragonite	0.567	Muscovite	0.433	33.61	0.954	1.36	R
DA98B10457	DA980457	27/08/98	EL 5062	B	DA98B1A0457	Illite	0.521	Paragonite	0.479	27.66	0.966	1.29	R
DA98B10458	DA980458	27/08/98	EL 5062	B	DA98B1A0458	Paragonite	1	NULL	NULL	83.75	0.999	1.06	R
DA98B10459	DA980459	27/08/98	EL 5062	B	DA98B1A0459	Paragonite	0.528	Illite	0.472	34.55	0.957	1.4	R
DA98B10460	DA980460	27/08/98	EL 5062	B	DA98B1A0460	Paragonite	0.566	Muscovite	0.434	92.51	0.996	1.11	R
DA98B10461	DA980461	27/08/98	EL 5062	B	DA98B1A0461	Paragonite	0.768	Halloysite	0.232	42.57	0.974	1.36	R
DA98B10462	DA980462	27/08/98	EL 5062	B	DA98B1A0462	Paragonite	0.521	Muscovite	0.479	65.36	0.989	1.12	R
DA98B10463	DA980463	27/08/98	EL 5062	B	DA98B1A0463	Illite	0.698	Kaolinite	0.302	78.11	1.01	1.17	R
DA98B10464	DA980464	27/08/98	EL 5062	B	DA98B1A0464	Paragonite	0.548	Muscovite	0.452	42.17	0.983	1.17	R
DA98B10465	DA980465	27/08/98	EL 5062	B	DA98B1A0465	Illite	0.616	Paragonite	0.384	44.04	0.973	1.18	R
DA98B10466	DA980466	27/08/98	EL 5062	B	DA98B1A0466	Illite	0.513	Paragonite	0.487	88.19	0.987	1.11	R
DA98B10467	DA980467	27/08/98	EL 5062	B	DA98B1A0467	Illite	0.55	Paragonite	0.45	29.8	0.953	1.37	R
DA98B10468	DA980468	27/08/98	EL 5062	B	DA98B1A0468	Illite	0.578	Paragonite	0.422	77.79	0.994	1.07	R
DA98B10469	DA980469	27/08/98	EL 5061	B	DA98B1A0469	Paragonite	0.627	Muscovite	0.373	97.6	0.991	1.1	R
DA98B10470	DA980470	27/08/98	EL 5061	B	DA98B1A0470	Illite	0.572	Paragonite	0.428	53.5	0.99	1.17	R
DA98B10471	DA980471	27/08/98	EL 5061	B	DA98B1A0471	Paragonite	0.539	Illite	0.461	73.8	0.99	1.12	R
DA98B10472	DA980472	27/08/98	EL 5061	B	DA98B1A0472	Paragonite	0.71	Halloysite	0.29	50.19	0.941	1.33	R

Sample Number	Station ID	Date	EL Name	Sample Code	Pima File	TSA Mineral 1	TSA Weight 1	Tsa Mineral 2	TSA Weight 2	TSA Error	Kaolinite Crystallinity	AlOH Crystallinity	Representation
DA98B10473	DA980473	27/08/98	EL 5061	B	DA98B1A0473	Paragonite	0.519	Illite	0.481	61.35	0.97	1.14	R
DA98B10474	DA980474	27/08/98	EL 5061	B	DA98B1A0474	Illite	0.508	Paragonite	0.492	100.28	0.995	1.1	R
DA98B10475	DA980475	27/08/98	EL 5061	B	DA98B1A0475	Halloysite	0.633	Nacrite	0.367	93	1.02	1.27	R
DA98B10476	DA980476	28/08/98	EL 5062	B	DA98B1A0476	Paragonite	0.689	Halloysite	0.311	51.26	0.985	1.21	R
DA98B10477	DA980477	28/08/98	EL 5061	B	DA98B1A0477	Paragonite	0.606	Illite	0.394	45.88	0.968	1.24	R
DA98B10478	DA980478	28/08/98	EL 5061	B	DA98B1A0478	Paragonite	0.853	Halloysite	0.147	38.86	0.959	1.3	R
DA98B10479	DA980479	28/08/98	EL 5061	B	DA98B1A0479	NULL	NULL	NULL	NULL	NULL	0.999	1.01	R
DA98B10480	DA980480	28/08/98	EL 5062	B	DA98B1A0480	Paragonite	0.583	Illite	0.417	37.68	0.963	1.27	R
DA98B10481	DA980481	28/08/98	EL 5062	B	DA98B1A0481	Paragonite	0.591	Illite	0.409	25.73	0.956	1.24	R
DA98B10482	DA980482	28/08/98	EL 5062	B	DA98B1A0482	Illite	1	NULL	NULL	91.32	1	1.11	R
DA98B10483	DA980483	28/08/98	EL 5062	B	DA98B1A0483	Illite	1	NULL	NULL	39.97	0.992	1.14	R
DA98B10484	DA980484	28/08/98	EL 5062	B	DA98B1A0484	Paragonite	0.638	Muscovite	0.362	80.5	0.991	1.11	R
DA98B10485	DA980485	28/08/98	EL 5062	B	DA98B1A0485	Illite	0.56	Paragonite	0.44	54.64	0.988	1.15	R
DA98B10486	DA980486	28/08/98	EL 5062	B	DA98B1A0486	Paragonite	0.62	Illite	0.38	51.38	0.974	1.26	R
DA98B10487	DA980487	28/08/98	EL 5062	B	DA98B1A0487	Illite	0.511	Paragonite	0.489	34.78	0.946	1.51	R
DA98B10488	DA980488	28/08/98	EL 5062	B	DA98B1A0488	Paragonite	0.549	Illite	0.451	93.48	0.985	1.11	R
DA98B10489	DA980489	28/08/98	EL 5062	B	DA98B1A0489	Paragonite	0.558	Illite	0.442	35.25	0.963	1.23	R
DA98B10490	DA980490	28/08/98	EL 5062	B	DA98B1A0490	Paragonite	0.528	Illite	0.472	34.67	0.974	1.18	R
DA98B10491	DA980491	28/08/98	EL 5061	B	DA98B1A0491	Paragonite	0.596	Muscovite	0.404	51.07	0.983	1.19	R
DA98B10492	DA980492	28/08/98	EL 5061	B	DA98B1A0492	Paragonite	0.625	Halloysite	0.375	39.47	0.973	1.22	R
DA98B10493	DA980493	28/08/98	EL 5061	B	DA98B1A0493	Paragonite	0.861	Gypsum	0.139	177.4	0.999	1.06	R
DA98B10494	DA980494	28/08/98	EL 5061	B	DA98B1A0494	Paragonite	0.643	Halloysite	0.357	58.89	0.989	1.2	R
DA98B10495	DA980495	28/08/98	EL 5061	B	DA98B1A0495	Illite	0.516	Paragonite	0.484	46.92	0.952	1.22	R
DA98B10496	DA980496	28/08/98	EL 5061	B	DA98B1A0496	Paragonite	1	NULL	NULL	139.12	0.983	1.11	R
DA98B10497	DA980497	28/08/98	EL 5061	B	DA98B1A0497	Illite	0.859	Gypsum	0.141	172.88	0.997	1.05	R
DA98B10498	DA980498	29/08/98	EL 5062	B	DA98B1A0498	Muscovite	0.515	Paragonite	0.485	80.24	0.993	1.15	R
DA98B10499	DA980499	29/08/98	EL 5062	B	DA98B1A0499	Illite	0.58	Paragonite	0.42	20.66	0.971	1.28	R
DA98B10500	DA980500	29/08/98	EL 5062	B	DA98B1A0500	Illite	0.533	Paragonite	0.467	39.52	0.963	1.24	R
DA98B10501	DA980501	29/08/98	EL 5062	B	DA98B1A0501	Paragonite	0.567	Illite	0.433	68.31	0.978	1.14	R
DA98B10502	DA980502	29/08/98	EL 5062	B	DA98B1A0502	Illite	0.62	Paragonite	0.38	18.87	0.969	1.28	R
DA98B10503	DA980503	29/08/98	EL 5062	B	DA98B1A0503	Illite	0.658	Paragonite	0.342	49.96	0.999	1.15	R
DA98B10504	DA980504	29/08/98	EL 5062	B	DA98B1A0504	Illite	0.502	Paragonite	0.498	19.2	0.958	1.31	R
DA98B10505	DA980505	29/08/98	EL 5061	B	DA98B1A0505	Paragonite	0.589	Illite	0.411	48.35	0.967	1.22	R
DA98B10506	DA980506	29/08/98	EL 5061	B	DA98B1A0506	Illite	0.638	Paragonite	0.362	55.11	0.997	1.14	R
DA98B10507	DA980507	29/08/98	EL 5061	B	DA98B1A0507	Paragonite	0.599	Illite	0.401	56.74	0.98	1.16	R
DA98B10508	DA980508	29/08/98	EL 5061	B	DA98B1A0508	Illite	0.778	Phengite	0.222	22.67	0.992	1.19	R
DA98B10509	DA980509	29/08/98	EL 5062	B	DA98B1A0509	Paragonite	0.649	Halloysite	0.351	90.2	0.995	1.16	R
DA98B10510	DA980510	29/08/98	EL 5062	B	DA98B1A0510	Paragonite	0.53	Illite	0.47	39.99	0.975	1.17	R
DA98B10511	DA980511	29/08/98	EL 5062	B	DA98B1A0511	Paragonite	0.514	Illite	0.486	25.09	0.956	1.31	R
DA98B10512	DA980512	29/08/98	EL 5062	B	DA98B1A0512	Paragonite	0.636	Illite	0.364	46.08	0.948	1.32	R
DA98B10513	DA980513	29/08/98	EL 5062	B	DA98B1A0513	Illite	0.553	Dickite	0.447	77.51	0.917	1.31	R
DA98B10514	DA980514	29/08/98	EL 5062	B	DA98B1A0514	Illite	0.838	Gypsum	0.162	88.6	0.996	1.06	R
DA98B10515	DA980515	29/08/98	EL 5062	B	DA98B1A0515	Illite	0.553	Paragonite	0.447	83.85	0.988	1.12	R
DA98B10516	DA980516	29/08/98	EL 5062	B	DA98B1A0516	Illite	0.699	Paragonite	0.301	44.31	0.996	1.13	R
DA98B10517	DA980517	29/08/98	EL 5062	B	DA98B1A0517	Paragonite	0.621	Muscovite	0.379	74.31	0.992	1.11	R
DA98B10518	DA980518	29/08/98	EL 5061	B	DA98B1A0518	Illite	0.524	Paragonite	0.476	28.27	0.961	1.32	R

Sample Number	Station ID	Date	EL Name	Sample Code	Pima File	TSA Mineral 1	TSA Weight 1	Tsa Mineral 2	TSA Weight 2	TSA Error	Kaolinite Crystallinity	AlOH Crystallinity	Representation
DA98C30610	DA980610	9/09/98	EL 5061	C	DA98C3A0610	NULL	NULL	NULL	NULL	NULL	1.02	0.667	D
DA98B10613	DA980613	10/09/98	EL 5061	B	DA98B1A0613	Illite	0.7	Kaolinite	0.3	53.28	1.01	1.24	R
DA98B10614	DA980614	10/09/98	EL 5061	B	DA98B1A0614	Illite	0.87	Gypsum	0.13	50.78	1.01	1.1	R
DA98B10615	DA980615	10/09/98	EL 5061	B	DA98B1A0615	Muscovite	0.536	Paragonite	0.464	60.77	0.998	1.13	R
DA98B10616	DA980616	10/09/98	EL 5061	B	DA98B1A0616	Illite	0.543	Paragonite	0.457	61.05	0.988	1.14	R
DA98B10617	DA980617	10/09/98	EL 5061	B	DA98B1A0617	Kaolinite	0.669	Illite	0.331	65.62	1.02	1.21	R
DA98B10618	DA980618	10/09/98	EL 5061	B	DA98B1A0618	Illite	1	NULL	NULL	195.54	0.994	1.1	R
DA98B10619	DA980619	10/09/98	EL 5061	B	DA98B1A0619	Muscovite	0.659	Kaolinite	0.341	164.46	1.01	1.08	R
DA98B10620	DA980620	10/09/98	EL 5061	B	DA98B1A0620	Illite	0.593	Halloysite	0.407	56.29	0.997	1.17	R
DA98B10621	DA980621	10/09/98	EL 5061	B	DA98B1A0621	Kaolinite	0.556	Muscovite	0.444	86.62	1.01	1.2	R
DA98B10622	DA980622	10/09/98	EL 5062	B	DA98B1A0622	Illite	0.934	Gypsum	0.0661	48.08	0.993	1.12	R
DA98B10623	DA980623	10/09/98	EL 5061	B	DA98B1A0623	Illite	0.868	Dickite	0.132	32.71	0.939	1.34	R
DA98B10624	DA980624	10/09/98	EL 5061	B	DA98B1A0624	Illite	0.625	Paragonite	0.375	47.86	0.986	1.18	R
DA98B10625	DA980625	10/09/98	EL 5061	B	DA98B1A0625	Paragonite	1	NULL	NULL	180.49	1	1.05	R
DA98B10626	DA980626	10/09/98	EL 5061	B	DA98B1A0626	Muscovite	0.563	Paragonite	0.437	52.28	0.993	1.19	R
DA98B10627	DA980627	10/09/98	EL 5061	B	DA98B1A0627	Paragonite	0.522	Muscovite	0.478	103.36	0.988	1.1	R
DA98B10628	DA980628	10/09/98	EL 5061	B	DA98B1A0628	Paragonite	0.51	Muscovite	0.49	50.88	0.992	1.15	R
DA98B10629	DA980629	10/09/98	EL 5061	B	DA98B1A0629	Illite	0.64	Paragonite	0.36	32.8	0.984	1.27	R
DA98B10630	DA980630	10/09/98	EL 5061	B	DA98B1A0630	Paragonite	0.578	Muscovite	0.422	122.77	0.992	1.11	R
DA98B10631	DA980631	10/09/98	EL 5061	B	DA98B1A0631	Kaolinite	0.659	Illite	0.341	59.99	1.02	1.28	R
DA98B10632	DA980632	10/09/98	EL 5061	B	DA98B1A0632	Illite	1	NULL	NULL	52.29	1	1.09	R
DA98B10633	DA980633	11/09/98	EL 5062	B	DA98B1A0633	NULL	NULL	NULL	NULL	NULL	1	1.03	R
DA98B10634	DA980634	11/09/98	EL 5062	B	DA98B1A0634	Dickite	0.506	Illite	0.494	68.12	0.865	1.32	R
DA98B10635	DA980635	11/09/98	EL 5062	B	DA98B1A0635	Illite	0.645	Paragonite	0.355	38.61	0.972	1.21	R
DA98B10636	DA980636	11/09/98	EL 5062	B	DA98B1A0636	Illite	0.914	Gypsum	0.0864	83.27	1	1.11	R
DA98B10637	DA980637	11/09/98	EL 5062	B	DA98B1A0637	Dickite	0.617	Illite	0.383	31.41	0.773	1.47	R
DA98B10638	DA980638	11/09/98	EL 5062	B	DA98B1A0638	Illite	1	NULL	NULL	65.37	0.997	1.18	R
DA98B10639	DA980639	11/09/98	EL 5062	B	DA98B1A0639	Muscovite	0.5	Paragonite	0.5	94.31	0.986	1.23	R
DA98B10640	DA980640	11/09/98	EL 5062	B	DA98B1A0640	Illite	1	NULL	NULL	106.56	1	1.12	R
DA98B10641	DA980641	11/09/98	EL 5062	B	DA98B1A0641	Muscovite	0.569	Paragonite	0.431	151.79	0.997	1.13	R
DA98B10642	DA980642	11/09/98	EL 5062	B	DA98B1A0642	Dickite	1	NULL	NULL	98.24	0.915	1.14	R
DA98B10643	DA980643	11/09/98	EL 5062	B	DA98B1A0643	Illite	0.508	Paragonite	0.492	34.92	0.951	1.38	R
DA98B10644	DA980644	11/09/98	EL 5062	B	DA98B1A0644	Illite	1	NULL	NULL	57.92	0.998	1.17	R
DA98B10645	DA980645	11/09/98	EL 5062	B	DA98B1A0645	Illite	0.769	Kaolinite	0.231	52.68	0.988	1.24	R
DA98B10646	DA980646	11/09/98	EL 5062	B	DA98B1A0646	Illite	0.571	Kaolinite	0.429	77.92	1.04	1.24	R
DA98B10647	DA980647	11/09/98	EL 5062	B	DA98B1A0647	Muscovite	0.504	Paragonite	0.496	61.64	0.99	1.19	R
DA98B10648	DA980648	12/09/98	EL 5062	B	DA98B1A0648	Gypsum	1	NULL	NULL	194.85	0.997	1.04	R
DA98B10649	DA980649	12/09/98	EL 5062	B	DA98B1A0649	NULL	NULL	NULL	NULL	NULL	0.998	1.01	R
DA98B10650	DA980650	12/09/98	EL 5061	B	DA98B1A0650	Illite	0.874	Gypsum	0.126	185.52	0.994	1.08	R
DA98B10651	DA980651	12/09/98	EL 5061	B	DA98B1A0651	Illite	0.885	Gypsum	0.115	134.24	0.999	1.09	R
DA98B10652	DA980652	12/09/98	EL 5061	B	DA98B1A0652	Paragonite	0.522	Illite	0.478	63.95	0.979	1.21	R
DA98B10653	DA980653	12/09/98	EL 5061	B	DA98B1A0653	Kaolinite	1	NULL	NULL	53.34	1.08	1.46	R
DA98B10654	DA980654	12/09/98	EL 5062	B	DA98B1A0654	Muscovite	0.507	Paragonite	0.493	85.95	0.987	1.24	R
DA98B10655	DA980655	12/09/98	EL 5062	B	DA98B1A0655	Illite	0.594	Dickite	0.406	66.28	0.829	1.44	R
DA98B10656	DA980656	12/09/98	EL 5062	B	DA98B1A0656	Dickite	1	NULL	NULL	166.93	0.91	1.15	R
DA98B10657	DA980657	12/09/98	EL 5062	B	DA98B1A0657	Paragonite	0.514	Illite	0.486	83.7	0.988	1.16	R

Sample Number	Station ID	Date	EL Name	Sample Code	Pima File	TSA Mineral 1	TSA Weight 1	Tsa Mineral 2	TSA Weight 2	TSA Error	Kaolinite Crystallinity	AlOH Crystallinity	Representation
DA98B10658	DA980658	12/09/98	EL 5062	B	DA98B1A0658	Illite	0.573	Paragonite	0.427	48.77	0.982	1.2	R
DA98B10659	DA980659	12/09/98	EL 5062	B	DA98B1A0659	Illite	0.904	Gypsum	0.0956	118.64	0.991	1.13	R
DA98B10660	DA980660	12/09/98	EL 5062	B	DA98B1A0660	Muscovite	0.52	Paragonite	0.48	70.75	0.987	1.21	R
DA98B10661	DA980661	12/09/98	EL 5062	B	DA98B1A0661	Dickite	0.692	Illite	0.308	70.48	0.858	1.32	R
DA98B10662	DA980662	12/09/98	EL 5062	B	DA98B1A0662	Illite	0.658	Paragonite	0.342	50.47	0.99	1.15	R
DA98B10663	DA980663	12/09/98	EL 5062	B	DA98B1A0663	Illite	0.625	Gypsum	0.375	189.89	0.998	1.02	R
DA98B10664	DA980664	12/09/98	EL 5062	B	DA98B1A0664	Illite	0.873	Gypsum	0.127	204.95	1	1.07	R
DA98B10665	DA980665	12/09/98	EL 5062	B	DA98B1A0665	Illite	0.526	Paragonite	0.474	87.8	1	1.12	R
DA98B10666	DA980666	12/09/98	EL 5061	B	DA98B1A0666	Illite	0.515	Paragonite	0.485	59.93	0.988	1.17	R
DA98B10667	DA980667	12/09/98	EL 5061	B	DA98B1A0667	Illite	0.89	Gypsum	0.11	113.85	0.999	1.08	R
DA98B10668	DA980668	12/09/98	EL 5061	B	DA98B1A0668	Muscovite	0.506	Paragonite	0.494	46.09	0.991	1.22	R
DA98B10669	DA980669	12/09/98	EL 5061	B	DA98B1A0669	Illite	1	NULL	NULL	139.8	0.993	1.1	R
DA98B10670	DA980670	12/09/98	EL 5061	B	DA98B1A0670	Illite	1	NULL	NULL	116.65	0.995	1.12	R
DA98B10671	DA980671	12/09/98	EL 5061	B	DA98B1A0671	Paragonite	0.571	Muscovite	0.429	130.54	0.993	1.09	R
DA98C20674	DA980674	13/09/98	EL 5061	C	DA98C2A0674	Kaolinite	0.543	Montmorillonite	0.457	120.19	1.031	0.811	D
DA98B10675	DA980675	20/09/98	EL 5062	B	DA98B1A0675	Paragonite	0.506	Muscovite	0.494	37.061	0.982	1.097	R
DA98B10676	DA980676	20/09/98	EL 5062	B	DA98B1A0676	Illite	0.553	Dickite	0.447	30.245	0.854	1.225	R
DA98B10677	DA980677	20/09/98	EL 5062	B	DA98B1A0677	Illite	0.823	Dickite	0.177	49.014	0.911	1.185	R
DA98B10678	DA980678	20/09/98	EL 5062	B	DA98B1A0678	Illite	1	NULL	NULL	156.939	0.998	0.982	R
DA98B10679	DA980679	20/09/98	EL 5062	B	DA98B1A0679	NULL	NULL	NULL	NULL	NULL	0.994	0.961	R
DA98B10680	DA980680	20/09/98	EL 5061	B	DA98B1A0680	Illite	0.628	Paragonite	0.372	56.002	0.994	1.04	R
DA98B10681	DA980681	20/09/98	EL 5061	B	DA98B1A0681	Illite	0.7	Kaolinite	0.3	71.057	0.998	0.995	R
DA98B10682	DA980682	20/09/98	EL 5061	B	DA98B1A0682	Illite	0.842	Kaolinite	0.158	44.544	0.996	1.202	R
DA98B10683	DA980683	20/09/98	EL 5061	B	DA98B1A0683	Illite	0.649	Kaolinite	0.351	68.141	0.997	1.026	R
DA98B10684	DA980684	20/09/98	EL 5061	B	DA98B1A0684	Illite	1	NULL	NULL	93.025	0.999	0.992	R
DA98B10685	DA980685	20/09/98	EL 5061	B	DA98B1A0685	Illite	0.66	Kaolinite	0.34	109.52	1.005	0.994	R
DA98B10686	DA980686	20/09/98	EL 5061	B	DA98B1A0686	Illite	0.729	Paragonite	0.271	37.225	0.991	1.055	R
DA98B10687	DA980687	20/09/98	EL 5061	B	DA98B1A0687	Illite	1	NULL	NULL	114.058	0.997	0.971	R
DA98B10688	DA980688	20/09/98	EL 5061	B	DA98B1A0688	Muscovite	0.543	Paragonite	0.457	91.791	0.995	1.002	R
DA98B10689	DA980689	20/09/98	EL 5061	B	DA98B1A0689	Illite	1	NULL	NULL	40.416	0.985	1.088	R
DA98B10690	DA980690	20/09/98	EL 5062	B	DA98B1A0690	Illite	0.606	Paragonite	0.394	40.232	0.95	1.246	R
DA98B10691	DA980691	20/09/98	EL 5062	B	DA98B1A0691	Nacrite	0.623	Dickite	0.377	97.848	0.863	1.176	R
DA98B10692	DA980692	20/09/98	EL 5062	B	DA98B1A0692	Nacrite	0.575	Dickite	0.425	92.499	0.899	1.138	R
DA98B10693	DA980693	20/09/98	EL 5062	B	DA98B1A0693	Illite	0.719	Paragonite	0.281	31.154	0.977	1.137	R
DA98B10694	DA980694	20/09/98	EL 5062	B	DA98B1A0694	Illite	0.697	Paragonite	0.303	50.625	0.992	1.036	R
DA98B10695	DA980695	20/09/98	EL 5062	B	DA98B1A0695	Illite	1	NULL	NULL	36.143	0.981	1.113	R
DA98B10696	DA980696	20/09/98	EL 5062	B	DA98B1A0696	Illite	0.603	Paragonite	0.397	72.04	0.983	1.007	R
DA98B10697	DA980697	20/09/98	EL 5062	B	DA98B1A0697	Illite	0.832	Gypsum	0.168	143.323	1.001	0.972	R
DA98B10698	DA980698	20/09/98	EL 5062	B	DA98B1A0698	Illite	1	NULL	NULL	69.51	0.995	0.975	R
DA98B10699	DA980699	20/09/98	EL 5062	B	DA98B1A0699	Illite	0.554	Kaolinite	0.446	59.765	1.006	1.104	R
DA98B10700	DA980700	20/09/98	EL 5061	B	DA98B1A0700	Illite	0.683	Paragonite	0.317	48.259	0.989	1.091	R
DA98B10701	DA980701	20/09/98	EL 5061	B	DA98B1A0701	Illite	0.719	Kaolinite	0.281	48.409	0.998	1.066	R
DA98B10702	DA980702	20/09/98	EL 5061	B	DA98B1A0702	Illite	0.69	Paragonite	0.31	45.94	0.986	1.012	R
DA98B10703	DA980703	20/09/98	EL 5061	B	DA98B1A0703	Illite	0.776	Paragonite	0.224	15.133	0.984	1.079	R
DA98B10704	DA980704	20/09/98	EL 5061	B	DA98B1A0704	Muscovite	1	NULL	NULL	48.172	1.012	1.024	R
DA98B10705	DA980705	20/09/98	EL 5061	B	DA98B1A0705	Illite	1	NULL	NULL	112.173	0.998	1.003	R

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DA98B10706	DA980706	20/09/98	EL 5061	B	DA98B1A0706	Illite	0.67	Paragonite	0.33	38.487	0.985	1.101	R
DA98B10707	DA980707	20/09/98	EL 5061	B	DA98B1A0707	Kaolinite	0.65	Muscovite	0.35	99.339	1.02	1.026	R
DA98B10708	DA980708	20/09/98	EL 5061	B	DA98B1A0708	Kaolinite	0.552	Muscovite	0.448	144.495	1.038	0.997	R
DA98B10709	DA980709	20/09/98	EL 5061	B	DA98B1A0709	Kaolinite	1	NULL	NULL	142.85	1.034	1.078	R
DA98B10710	DA980710	20/09/98	EL 5061	B	DA98B1A0710	Kaolinite	0.778	Gypsum	0.222	372.101	1.004	0.949	R
DA98B10711	DA980711	21/09/98	EL 5061	B	DA98B1A0711	Illite	1	NULL	NULL	60.23	0.997	1.018	R
DA98B10712	DA980712	21/09/98	EL 5061	B	DA98B1A0712	Illite	1	NULL	NULL	154.366	0.994	0.985	R
DA98B10713	DA980713	21/09/98	EL 5061	B	DA98B1A0713	Kaolinite	0.534	Illite	0.466	34.995	1.022	1.12	R
DA98B10714	DA980714	21/09/98	EL 5061	B	DA98B1A0714	Illite	1	NULL	NULL	248.643	1.001	0.984	R
DA98B10715	DA980715	21/09/98	EL 5061	B	DA98B1A0715	Illite	0.66	Paragonite	0.34	45.474	0.987	1.034	R
DA98B10716	DA980716	21/09/98	EL 5061	B	DA98B1A0716	Dickite	0.638	Illite	0.362	99.799	0.929	1.092	R
DA98B10717	DA980717	21/09/98	EL 5061	B	DA98B1A0717	Illite	1	NULL	NULL	15.479	1.003	0.996	R
DA98B10718	DA980718	21/09/98	EL 5061	B	DA98B1A0718	Illite	1	NULL	NULL	32.4	0.983	1.043	R
DA98B10719	DA980719	21/09/98	EL 5061	B	DA98B1A0719	Illite	1	NULL	NULL	43.18	1.003	0.988	R
DA98B10720	DA980720	21/09/98	EL 5061	B	DA98B1A0720	Illite	1	NULL	NULL	26.769	0.977	1.092	R
DA98B10721	DA980721	21/09/98	EL 5061	B	DA98B1A0721	Illite	0.784	Kaolinite	0.216	28.94	0.996	1.082	R
DA98B10722	DA980722	21/09/98	EL 5061	B	DA98B1A0722	Illite	0.598	Kaolinite	0.402	74.691	1.01	1.062	R
DA98B10723	DA980723	21/09/98	EL 5061	B	DA98B1A0723	Illite	0.82	Gypsum	0.18	139.531	0.998	0.968	R
DA98B10724	DA980724	21/09/98	EL 5061	B	DA98B1A0724	Illite	1	NULL	NULL	114.229	0.998	0.999	R
DA98B10725	DA980725	21/09/98	EL 5061	B	DA98B1A0725	Illite	0.723	Kaolinite	0.277	78.916	0.996	1.032	R
DA98B10726	DA980726	21/09/98	EL 5061	B	DA98B1A0726	Paragonite	1	NULL	NULL	142.086	0.996	1	R
DA98B10727	DA980727	21/09/98	EL 5061	B	DA98B1A0727	Kaolinite	1	NULL	NULL	62.873	1.1	1.299	R
DA98B10728	DA980728	21/09/98	EL 5061	B	DA98B1A0728	NULL	NULL	NULL	NULL	NULL	1.007	0.965	R
DA98B10729	DA980729	21/09/98	EL 5062	B	DA98B1A0729	MgChlorite	0.836	Halloysite	0.164	172.484	1.009	0.957	R
DA98B10730	DA980730	21/09/98	EL 5062	B	DA98B1A0730	NULL	NULL	NULL	NULL	NULL	1.003	0.817	R
DA98B10731	DA980731	22/09/98	EL 5062	B	DA98B1A0731	NULL	NULL	NULL	NULL	NULL	0.999	0.955	R
DA98B10732	DA980732	22/09/98	EL 5062	B	DA98B1A0732	Muscovite	1	NULL	NULL	62.472	1.002	0.986	R
DA98B10733	DA980733	22/09/98	EL 5062	B	DA98B1A0733	Muscovite	1	NULL	NULL	32.122	1.01	0.973	R
DA98B10734	DA980734	22/09/98	EL 5062	B	DA98B1A0734	Illite	1	NULL	NULL	96.902	1.007	1.01	R
DA98B10736	DA980736	24/09/98	EL 5061	B	DA98B1A0736	Illite	0.731	Paragonite	0.269	33.299	0.982	1.093	R
DA98B10737	DA980737	24/09/98	EL 5061	B	DA98B1A0737	Illite	0.526	Kaolinite	0.474	58.875	1.018	1.082	R
DA98B10738	DA980738	24/09/98	EL 5061	B	DA98B1A0738	Illite	1	NULL	NULL	173.292	0.998	0.935	R
DA98B10739	DA980739	24/09/98	EL 5061	B	DA98B1A0739	Illite	0.52	Kaolinite	0.48	47.407	1.007	1.068	R
DA98B10740	DA980740	24/09/98	EL 5061	B	DA98B1A0740	Muscovite	0.518	Kaolinite	0.482	82.159	1.013	1.044	R
DA98B10741	DA980741	24/09/98	EL 5061	B	DA98B1A0741	Muscovite	0.531	Kaolinite	0.469	68.183	1.005	1.02	R
DA98B10742	DA980742	24/09/98	EL 5061	B	DA98B1A0742	Illite	0.68	Phengite	0.32	49.892	1.017	1.033	R
DA98C11210	DA981210	31/08/98	EL 5062	C	DA98C1A1210	Illite	1	NULL	NULL	184.89	0.996	1.08	
DA98C41211	DA981211	31/08/98	EL 5062	C	DA98C4A1211	Kaolinite	1	NULL	NULL	80.95	1.059	1.258	D
DA98C31211	DA981211	31/08/98	EL 5062	C	DA98C3A1211	Muscovite	0.557	Kaolinite	0.443	426.51	0.992	1.06	R
DA98C11211	DA981211	31/08/98	EL 5062	C	DA98C1A1211	Kaolinite	1	NULL	NULL	164.01	1.02	1.14	R
DA98C21211	DA981211	31/08/98	EL 5062	C	DA98C2A1211	Kaolinite	1	NULL	NULL	151.45	1.02	1.12	R
DA98C11212	DA981212	2/09/98	EL 5061	C	DA98C1A1212	Illite	1	NULL	NULL	65.94	0.995	1.07	R
DA98C11213	DA981213	2/09/98	EL 5061	C	DA98C1A1213	Illite	0.623	Kaolinite	0.377	73.58	1.01	1.13	R
DA98C11214	DA981214	2/09/98	EL 5061	C	DA98C1A1214	Illite	0.674	Halloysite	0.326	64.04	1	1.16	R
DA98C11215	DA981215	2/09/98	EL 5061	C	DA98C1A1215	Illite	0.746	Kaolinite	0.254	40.83	0.998	1.17	R
DA98C11216	DA981216	2/09/98	EL 5061	C	DA98C1A1216	Illite	0.737	Kaolinite	0.263	24.42	1	1.23	R

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DA98C11217	DA981217	2/09/98	EL 5061	C	DA98C1A1217	Kaolinite	0.597	Illite	0.403	31.71	1.03	1.37	R
DA98C11218	DA981218	2/09/98	EL 5061	C	DA98C1A1218	Kaolinite	0.636	Paragonite	0.364	66.02	0.973	1.21	R
DA98C11219	DA981219	2/09/98	EL 5061	C	DA98C1A1219	Illite	0.829	Dickite	0.171	95.4	0.984	1.09	R
DA98C11220	DA981220	2/09/98	EL 5061	C	DA98C1A1220	Illite	0.925	Gypsum	0.0754	80.07	0.997	1.1	R
DA98C11221	DA981221	2/09/98	EL 5061	C	DA98C1A1221	Illite	0.705	Paragonite	0.295	28.65	0.989	1.18	R
DA98C11222	DA981222	2/09/98	EL 5061	C	DA98C1A1222	Illite	1	NULL	NULL	84.51	0.992	1.12	R
DA98C11223	DA981223	2/09/98	EL 5061	C	DA98C1A1223	Muscovite	0.928	Gypsum	0.0723	78.9	1	1.11	R
DA98C11224	DA981224	2/09/98	EL 5061	C	DA98C1A1224	Illite	0.729	Paragonite	0.271	35.61	0.985	1.22	R
DA98C11225	DA981225	2/09/98	EL 5061	C	DA98C1A1225	Illite	0.884	Gypsum	0.116	166.91	0.988	1.1	R
DA98C11226	DA981226	2/09/98	EL 5061	C	DA98C1A1226	Illite	0.546	Kaolinite	0.454	32.74	1.01	1.32	R
DA98C11227	DA981227	2/09/98	EL 5061	C	DA98C1A1227	Illite	0.663	Kaolinite	0.337	39.61	1	1.23	R
DA98C11228	DA981228	2/09/98	EL 5061	C	DA98C1A1228	Illite	0.515	Kaolinite	0.485	62.7	1.01	1.23	R
DA98C11229	DA981229	2/09/98	EL 5061	C	DA98C1A1229	Illite	0.672	Kaolinite	0.328	85.17	1.01	1.13	R
DA98C11230	DA981230	2/09/98	EL 5061	C	DA98C1A1230	Illite	0.557	Kaolinite	0.443	152.48	0.998	1.11	R
DA98C11231	DA981231	2/09/98	EL 5061	C	DA98C1A1231	Illite	0.868	Gypsum	0.132	120.49	1	1.07	R
DA98C11232	DA981232	2/09/98	EL 5061	C	DA98C1A1232	Muscovite	0.723	Nacrite	0.277	71.46	1	1.1	R
DA98C11233	DA981233	2/09/98	EL 5061	C	DA98C1A1233	Illite	1	NULL	NULL	17.57	0.999	1.05	R
DA98C11234	DA981234	2/09/98	EL 5061	C	DA98C1A1234	Illite	1	NULL	NULL	60.84	0.993	1.11	R
DA98C11235	DA981235	2/09/98	EL 5061	C	DA98C1A1235	Illite	0.591	Kaolinite	0.409	113.43	0.999	1.18	R
DA98C11236	DA981236	2/09/98	EL 5061	C	DA98C1A1236	Illite	0.506	Kaolinite	0.494	46.82	1.01	1.27	R
DA98C11238	DA981238	3/09/98	EL 5062	C	DA98C1A1238	Kaolinite	0.528	Illite	0.472	139.13	1.02	1.14	R
DA98C21238	DA981238	3/09/98	EL 5062	C	DA98C2A1238	Kaolinite	0.528	Muscovite	0.472	168.6	1.017	0.961	D
DA98C11239	DA981239	3/09/98	EL 5062	C	DA98C1A1239	Halloysite	0.582	Illite	0.418	143.24	1.01	1.13	R
DA98C11242	DA981242	4/09/98	EL 5061	C	DA98C1A1242	Illite	0.825	Kaolinite	0.175	20.86	0.995	1.28	R
DA98C11243	DA981243	4/09/98	EL 5061	C	DA98C1A1243	Illite	0.658	Muscovite	0.342	20.45	0.99	1.24	R
DA98C11244	DA981244	4/09/98	EL 5061	C	DA98C1A1244	Illite	0.616	Kaolinite	0.384	37.9	1	1.25	R
DA98C11245	DA981245	4/09/98	EL 5061	C	DA98C1A1245	Illite	0.883	Kaolinite	0.117	20.79	0.986	1.23	R
DA98C11246	DA981246	4/09/98	EL 5061	C	DA98C1A1246	Illite	0.728	Paragonite	0.272	37.16	0.992	1.15	R
DA98C11247	DA981247	4/09/98	EL 5061	C	DA98C1A1247	Illite	0.765	Kaolinite	0.235	43.42	0.996	1.18	R
DA98C11248	DA981248	4/09/98	EL 5061	C	DA98C1A1248	Illite	1	NULL	NULL	38.22	0.999	1.05	R
DA98C11249	DA981249	4/09/98	EL 5061	C	DA98C1A1249	Illite	1	NULL	NULL	35.12	0.999	1.18	R
DA98C11250	DA981250	4/09/98	EL 5061	C	DA98C1A1250	Illite	0.838	Halloysite	0.162	20.61	0.989	1.27	R
DA98C11251	DA981251	4/09/98	EL 5061	C	DA98C1A1251	Illite	1	NULL	NULL	24.26	0.986	1.17	R
DA98C11252	DA981252	4/09/98	EL 5061	C	DA98C1A1252	Illite	1	NULL	NULL	55.19	1	1.15	R
DA98C11253	DA981253	4/09/98	EL 5061	C	DA98C1A1253	Illite	1	NULL	NULL	48.73	1	1.09	R
DA98C11254	DA981254	4/09/98	EL 5061	C	DA98C1A1254	Illite	1	NULL	NULL	50.8	0.988	1.11	R
DA98C11255	DA981255	4/09/98	EL 5061	C	DA98C1A1255	Illite	0.831	Gypsum	0.169	15.01	0.999	1.03	R
DA98C11256	DA981256	4/09/98	EL 5061	C	DA98C1A1256	Illite	0.51	Kaolinite	0.49	64.39	1.01	1.28	R
DA98C11257	DA981257	4/09/98	EL 5061	C	DA98C1A1257	Illite	1	NULL	NULL	32.58	0.998	1.09	R
DA98C11258	DA981258	4/09/98	EL 5061	C	DA98C1A1258	Illite	0.926	Gypsum	0.0738	53.71	0.995	1.12	R
DA98C11259	DA981259	4/09/98	EL 5061	C	DA98C1A1259	Illite	1	NULL	NULL	27.25	0.983	1.23	R
DA98C11260	DA981260	4/09/98	EL 5061	C	DA98C1A1260	Illite	1	NULL	NULL	27.25	0.983	1.23	R
DA98C11261	DA981261	4/09/98	EL 5061	C	DA98C1A1261	Kaolinite	0.534	Illite	0.466	68.24	1	1.05	R
DA98C11262	DA981262	4/09/98	EL 5061	C	DA98C1A1262	Illite	0.724	Halloysite	0.276	71.35	0.987	1.14	R
DA98C11263	DA981263	4/09/98	EL 5061	C	DA98C1A1263	Illite	0.7	Halloysite	0.3	44.26	1	1.24	R
DA98C11264	DA981264	4/09/98	EL 5061	C	DA98C1A1264	Illite	1	NULL	NULL	95.68	0.996	1.06	R

Sample Number	Station ID	Date	EL Name	Sample Code	Pima File	TSA Mineral 1	TSA Weight 1	Tsa Mineral 2	TSA Weight 2	TSA Error	Kaolinite Crystallinity	AlOH Crystallinity	Representation
DA98C11265	DA981265	4/09/98	EL 5061	C	DA98C1A1265	Illite	0.873	Gypsum	0.127	141.82	0.993	1.08	R
DA98C11266	DA981266	4/09/98	EL 5061	C	DA98C1A1266	Illite	1	NULL	NULL	23.21	0.997	1.05	R
DA98C11267	DA981267	4/09/98	EL 5061	C	DA98C1A1267	Illite	0.552	Halloysite	0.448	101.32	1	1.17	R
DA98C11268	DA981268	4/09/98	EL 5061	C	DA98C1A1268	Illite	1	NULL	NULL	40.06	0.999	1.08	R
DA98C11269	DA981269	4/09/98	EL 5061	C	DA98C1A1269	Illite	0.809	Halloysite	0.191	51.47	0.998	1.14	R
DA98C11270	DA981270	4/09/98	EL 5061	C	DA98C1A1270	Illite	1	NULL	NULL	38.78	0.998	1.15	R
DA98C11271	DA981271	4/09/98	EL 5061	C	DA98C1A1271	Illite	1	NULL	NULL	58.43	1	1.06	R
DA98C11272	DA981272	4/09/98	EL 5061	C	DA98C1A1272	Illite	0.945	Gypsum	0.055	27.38	0.99	1.15	R
DA98C11273	DA981273	4/09/98	EL 5061	C	DA98C1A1273	Illite	1	NULL	NULL	33.25	0.995	1.14	R
DA98C11274	DA981274	4/09/98	EL 5061	C	DA98C1A1274	Illite	1	NULL	NULL	35.51	0.982	1.18	R
DA98C11275	DA981275	4/09/98	EL 5061	C	DA98C1A1275	Halloysite	0.587	Illite	0.413	146.79	1.01	1.14	R
DA98C11276	DA981276	4/09/98	EL 5061	C	DA98C1A1276	Illite	0.613	Nacrite	0.387	95.94	0.986	1.16	R
DA98C11277	DA981277	4/09/98	EL 5061	C	DA98C1A1277	Muscovite	0.527	Nacrite	0.473	55.92	0.984	1.06	R
DA98C11278	DA981278	4/09/98	EL 5061	C	DA98C1A1278	Illite	0.713	Halloysite	0.287	71.38	0.996	1.14	R
DA98C11279	DA981279	4/09/98	EL 5061	C	DA98C1A1279	Illite	1	NULL	NULL	37.97	0.989	1.13	R
DA98C11280	DA981280	4/09/98	EL 5061	C	DA98C1A1280	Illite	0.773	Halloysite	0.227	37.46	1.01	1.08	R
DA98C11281	DA981281	4/09/98	EL 5061	C	DA98C1A1281	Illite	0.833	Halloysite	0.167	51.4	0.991	1.16	R
DA98C11282	DA981282	4/09/98	EL 5061	C	DA98C1A1282	Illite	0.58	Kaolinite	0.42	57.04	1.01	1.37	R
DA98C11283	DA981283	4/09/98	EL 5061	C	DA98C1A1283	Illite	1	NULL	NULL	71.45	1.01	1.06	R
DA98C11284	DA981284	4/09/98	EL 5061	C	DA98C1A1284	Illite	0.821	Halloysite	0.179	30.37	0.998	1.2	R
DA98C11285	DA981285	4/09/98	EL 5061	C	DA98C1A1285	Illite	1	NULL	NULL	88.12	0.989	1.16	R
DA98C11286	DA981286	4/09/98	EL 5061	C	DA98C1A1286	Illite	1	NULL	NULL	40.5	0.988	1.23	R
DA98C11287	DA981287	4/09/98	EL 5061	C	DA98C1A1287	Illite	0.618	Nacrite	0.382	121.71	0.998	1.08	R
DA98C11288	DA981288	4/09/98	EL 5061	C	DA98C1A1288	Illite	1	NULL	NULL	73.11	0.999	1.14	R
DA98C11289	DA981289	4/09/98	EL 5061	C	DA98C1A1289	Illite	0.68	Halloysite	0.32	29.17	1	1.23	R
DA98C11290	DA981290	4/09/98	EL 5061	C	DA98C1A1290	Illite	0.732	Nacrite	0.268	90.67	1	1.1	R
DA98C11291	DA981291	4/09/98	EL 5061	C	DA98C1A1291	Paragonite	0.545	Kaolinite	0.455	184.99	0.97	1.11	R
DA98C11292	DA981292	4/09/98	EL 5061	C	DA98C1A1292	Kaolinite	0.653	Illite	0.347	58.21	1.03	1.43	R
DA98C11293	DA981293	4/09/98	EL 5061	C	DA98C1A1293	Illite	1	NULL	NULL	34.33	0.994	1.13	R
DA98C11294	DA981294	4/09/98	EL 5061	C	DA98C1A1294	Illite	1	NULL	NULL	7.25	0.999	1.02	R
DA98C11295	DA981295	4/09/98	EL 5061	C	DA98C1A1295	Nacrite	1	NULL	NULL	248.01	0.983	1.03	R
DA98C11296	DA981296	4/09/98	EL 5061	C	DA98C1A1296	Nacrite	0.53	Dickite	0.47	86.81	0.939	1.12	R
DA98C11297	DA981297	4/09/98	EL 5061	C	DA98C1A1297	Nacrite	1	NULL	NULL	107.48	0.947	1.12	R
DA98C11298	DA981298	4/09/98	EL 5061	C	DA98C1A1298	Muscovite	0.561	Nacrite	0.439	72.34	0.98	1.13	R
DA98C11299	DA981299	4/09/98	EL 5061	C	DA98C1A1299	Illite	1	NULL	NULL	34.22	0.994	1.19	R
DA98C11300	DA981300	4/09/98	EL 5061	C	DA98C1A1300	Illite	0.668	Kaolinite	0.332	58.5	0.969	1.25	R
DA98C11301	DA981301	4/09/98	EL 5061	C	DA98C1A1301	Illite	0.67	Dickite	0.33	70.15	0.952	1.13	R
DA98C11302	DA981302	4/09/98	EL 5061	C	DA98C1A1302	Illite	1	NULL	NULL	53.52	0.987	1.16	R
DA98C11303	DA981303	4/09/98	EL 5061	C	DA98C1A1303	Illite	1	NULL	NULL	46.51	0.996	1.13	R
DA98C11304	DA981304	4/09/98	EL 5061	C	DA98C1A1304	Illite	0.603	Phengite	0.397	42.88	1.01	1.17	R
DA98C11305	DA981305	4/09/98	EL 5061	C	DA98C1A1305	Nacrite	0.537	Dickite	0.463	92.37	0.883	1.22	R
DA98C21306	DA981306	5/09/98	EL 5061	C	DA98C2A1306	Kaolinite	1	NULL	NULL	40.55	1.15	2.01	R
DA98C11306	DA981306	5/09/98	EL 5061	c	DA98C1A1306	Kaolinite	1	NULL	NULL	46.85	1.13	2.36	R
DA98C11307	DA981307	5/09/98	EL 5062	C	DA98C1A1307	Halloysite	0.821	Gypsum	0.179	252.1	1.01	1.07	R
DA98C11308	DA981308	5/09/98	EL 5062	C	DA98C1A1308	Halloysite	1	NULL	NULL	159.48	1.03	1.15	R
DA98C11309	DA981309	5/09/98	EL 5062	C	DA98C1A1309	Muscovite	1	NULL	NULL	145.88	1.06	1.46	R

Sample Number	Station ID	Date	EL Name	Sample Code	Pima File	TSA Mineral 1	TSA Weight 1	Tsa Mineral 2	TSA Weight 2	TSA Error	Kaolinite Crystallinity	AlOH Crystallinity	Representation
DA98B11324	DA981324	10/09/98	EL 5061	B	DA98B1A1324	Illite	1	NULL	NULL	59.83	0.991	1.24	R
DA98B11325	DA981325	10/09/98	EL 5061	B	DA98B1A1325	Paragonite	0.545	Muscovite	0.455	89.29	0.992	1.12	R
DA98B11326	DA981326	10/09/98	EL 5061	B	DA98B1A1326	Illite	0.583	Paragonite	0.417	43.12	0.981	1.21	R
DA98B11327	DA981327	10/09/98	EL 5061	B	DA98B1A1327	Illite	1	NULL	NULL	69.91	0.991	1.15	R
DA98B11328	DA981328	10/09/98	EL 5061	B	DA98B1A1328	Paragonite	0.576	Muscovite	0.424	120.06	0.997	1.08	R
DA98B11329	DA981329	10/09/98	EL 5061	B	DA98B1A1329	Kaolinite	0.831	Gypsum	0.169	199.82	1.01	1.07	R
DA98B11330	DA981330	10/09/98	EL 5061	B	DA98B1A1330	Kaolinite	0.771	Illite	0.229	58.3	1.04	1.38	R
DA98B11331	DA981331	10/09/98	EL 5061	B	DA98B1A1331	Illite	0.679	Phengite	0.321	27.83	1	1.18	R
DA98B11332	DA981332	10/09/98	EL 5062	B	DA98B1A1332	Illite	0.69	Kaolinite	0.31	109.54	1	1.1	R
DA98B11333	DA981333	10/09/98	EL 5062	B	DA98B1A1333	Paragonite	0.507	Muscovite	0.493	75.47	0.997	1.12	R
DA98B11334	DA981334	10/09/98	EL 5061	B	DA98B1A1334	Paragonite	1	NULL	NULL	186.34	0.992	1.11	R
DA98B11335	DA981335	10/09/98	EL 5061	B	DA98B1A1335	Illite	1	NULL	NULL	107.91	0.999	1.08	R
DA98B11336	DA981336	10/09/98	EL 5061	B	DA98B1A1336	Paragonite	0.521	Muscovite	0.479	65.5	0.983	1.3	R
DA98B11337	DA981337	10/09/98	EL 5061	B	DA98B1A1337	Illite	0.822	Gypsum	0.178	101.92	0.995	1.05	R
DA98B11338	DA981338	10/09/98	EL 5061	B	DA98B1A1338	Paragonite	1	NULL	NULL	235.96	0.997	1.07	R
DA98B11339	DA981339	10/09/98	EL 5061	B	DA98B1A1339	Illite	0.542	Paragonite	0.458	41.46	0.941	1.34	R
DA98B11340	DA981340	10/09/98	EL 5061	B	DA98B1A1340	Muscovite	0.502	Paragonite	0.498	99.05	1	1.15	R
DA98B11341	DA981341	10/09/98	EL 5061	B	DA98B1A1341	Kaolinite	0.539	Muscovite	0.461	110.44	1.01	1.13	R
DA98B11342	DA981342	10/09/98	EL 5061	B	DA98B1A1342	Muscovite	1	NULL	NULL	135.18	1	1.05	R
DA98B11343	DA981343	10/09/98	EL 5061	B	DA98B1A1343	Illite	0.642	Kaolinite	0.358	106.99	0.972	1.15	R
DA98B11344	DA981344	11/09/98	EL 5062	B	DA98B1A1344	Dickite	1	NULL	NULL	106.28	0.755	1.4	R
DA98B11345	DA981345	11/09/98	EL 5062	B	DA98B1A1345	Illite	0.943	Gypsum	0.0568	37.14	1	1.15	R
DA98B11346	DA981346	11/09/98	EL 5062	B	DA98B1A1346	Illite	0.898	Gypsum	0.102	105.64	1	1.12	R
DA98B11347	DA981347	11/09/98	EL 5062	B	DA98B1A1347	Kaolinite	0.526	Illite	0.474	99.66	0.997	1.22	R
DA98B11348	DA981348	11/09/98	EL 5062	B	DA98B1A1348	Illite	0.924	Gypsum	0.0755	74.47	0.988	1.13	R
DA98B11349	DA981349	11/09/98	EL 5062	B	DA98B1A1349	Illite	0.501	Paragonite	0.499	42.08	0.963	1.34	R
DA98B11350	DA981350	11/09/98	EL 5062	B	DA98B1A1350	Illite	0.567	Paragonite	0.433	85.51	0.99	1.15	R
DA98B11351	DA981351	11/09/98	EL 5062	B	DA98B1A1351	Illite	0.727	Alunite	0.273	104.015	0.997	0.973	R
DA98B11352	DA981352	11/09/98	EL 5062	B	DA98B1A1352	Illite	0.818	Gypsum	0.182	225.48	1	1.06	R
DA98B11353	DA981353	11/09/98	EL 5062	B	DA98B1A1353	Paragonite	0.525	Illite	0.475	26.97	0.95	1.31	R
DA98B11354	DA981354	11/09/98	EL 5062	B	DA98B1A1354	Illite	0.607	Dickite	0.393	66.65	0.913	1.24	R
DA98B11355	DA981355	11/09/98	EL 5062	B	DA98B1A1355	Illite	1	NULL	NULL	38.91	0.999	1.21	R
DA98B11356	DA981356	11/09/98	EL 5062	B	DA98B1A1356	Muscovite	0.539	Paragonite	0.461	56.36	0.996	1.14	R
DA98B11357	DA981357	11/09/98	EL 5062	B	DA98B1A1357	Dickite	1	NULL	NULL	116.47	0.774	1.42	R
DA98B11358	DA981358	11/09/98	EL 5062	B	DA98B1A1358	Illite	0.61	Paragonite	0.39	25.21	0.961	1.29	R
DA98B11359	DA981359	12/09/98	EL 5062	B	DA98B1A1359	Illite	0.92	Gypsum	0.0804	85.74	0.993	1.14	R
DA98B11360	DA981360	12/09/98	EL 5061	B	DA98B1A1360	Illite	0.902	Gypsum	0.0983	122.98	0.997	1.09	R
DA98B11361	DA981361	12/09/98	EL 5061	B	DA98B1A1361	Illite	0.673	Paragonite	0.327	49.79	0.991	1.15	R
DA98B11362	DA981362	12/09/98	EL 5061	B	DA98B1A1362	Illite	0.546	Paragonite	0.454	48.5	0.984	1.16	R
DA98B11363	DA981363	12/09/98	EL 5061	B	DA98B1A1363	Illite	0.579	Paragonite	0.421	49.39	0.971	1.2	R
DA98B11364	DA981364	12/09/98	EL 5062	B	DA98B1A1364	Illite	0.574	Paragonite	0.426	63	0.983	1.25	R
DA98B11365	DA981365	12/09/98	EL 5062	B	DA98B1A1365	Illite	1	NULL	NULL	51.98	0.984	1.2	R
DA98B11366	DA981366	12/09/98	EL 5062	B	DA98B1A1366	Dickite	1	NULL	NULL	86.11	0.715	1.62	R
DA98B11367	DA981367	12/09/98	EL 5062	B	DA98B1A1367	Illite	0.542	Paragonite	0.458	80.5	0.988	1.2	R
DA98B11368	DA981368	12/09/98	EL 5062	B	DA98B1A1368	Illite	0.945	Gypsum	0.0553	41.53	0.987	1.19	R
DA98B11369	DA981369	12/09/98	EL 5062	B	DA98B1A1369	Paragonite	1	NULL	NULL	171.11	0.999	1.09	R

Sample Number	Station ID	Date	EL Name	Sample Code	Pima File	TSA Mineral 1	TSA Weight 1	Tsa Mineral 2	TSA Weight 2	TSA Error	Kaolinite Crystallinity	AlOH Crystallinity	Representation
DA98B11370	DA981370	12/09/98	EL 5062	B	DA98B1A1370	Dickite	1	NULL	NULL	141.96	0.905	1.16	R
DA98B11371	DA981371	12/09/98	EL 5062	B	DA98B1A1371	Illite	0.768	Gypsum	0.232	172.07	1	1.05	R
DA98B11372	DA981372	12/09/98	EL 5062	B	DA98B1A1372	Illite	1	NULL	NULL	58.19	1	1.14	R
DA98B11373	DA981373	12/09/98	EL 5062	B	DA98B1A1373	Illite	0.527	Paragonite	0.473	79.2	0.995	1.12	R
DA98B11374	DA981374	12/09/98	EL 5062	B	DA98B1A1374	Paragonite	0.522	Illite	0.478	71.48	0.984	1.18	R
DA98B11375	DA981375	12/09/98	EL 5061	B	DA98B1A1375	Illite	0.568	Kaolinite	0.432	72.15	1.02	1.22	R
DA98B11376	DA981376	12/09/98	EL 5061	B	DA98B1A1376	Paragonite	0.544	Muscovite	0.456	98.15	0.994	1.13	R
DA98B11377	DA981377	12/09/98	EL 5061	B	DA98B1A1377	Paragonite	0.509	Halloysite	0.491	72.08	1	1.2	R
DA98B11378	DA981378	12/09/98	EL 5061	B	DA98B1A1378	Paragonite	0.6	Muscovite	0.4	79.23	0.993	1.12	R
DA98B11379	DA981379	12/09/98	EL 5061	B	DA98B1A1379	Paragonite	0.573	Halloysite	0.427	66.75	1	1.23	R
DA98B11380	DA981380	12/09/98	EL 5061	B	DA98B1A1380	Illite	0.583	Paragonite	0.417	49.51	0.984	1.12	R
DA98B11381	DA981381	12/09/98	EL 5061	B	DA98B1A1381	Illite	0.83	Gypsum	0.17	154.82	0.998	1.06	R
DA98C11382	DA981382	13/09/98	EL 5062	C	DA98C1A1382	Kaolinite	1	NULL	NULL	40.185	1.011	1	R
DA98C11383	DA981383	13/09/98	EL 5062	C	DA98C1A1383	Muscovite	1	NULL	NULL	96.898	1.016	0.974	R
DA98C11384	DA981384	13/09/98	EL 5062	C	DA98C1A1384	Halloysite	0.611	Illite	0.389	105.322	1.016	0.957	R
DA98C11400	DA981400	22/09/98	EL 5062	C	DA98C1A1400	Kaolinite	1	NULL	NULL	88.698	1.054	1.152	R
DA98C11401	DA981401	22/09/98	EL 5062	C	DA98C1A1401	Kaolinite	1	NULL	NULL	92.422	1.051	1.114	R
DA98C11402	DA981402	22/09/98	EL 5062	C	DA98C1A1402	Kaolinite	1	NULL	NULL	129.386	1.033	1.045	R
DA98C11403	DA981403	22/09/98	EL 5062	C	DA98C1A1403	Kaolinite	0.623	Muscovite	0.377	275.974	1.006	0.982	R
DA98C11405	DA981405	22/09/98	EL 5062	C	DA98C1A1405	Muscovite	1	NULL	NULL	187.579	1.012	0.972	R
DA98C11406	DA981406	22/09/98	EL 5062	C	DA98C1A1406	Halloysite	0.549	Dickite	0.451	98.245	0.976	0.924	R
DA98C11408	DA981408	22/09/98	EL 5062	C	DA98C1A1408	Kaolinite	0.629	Halloysite	0.371	71.718	1.044	1.124	R
DA98C11411	DA981411	22/09/98	EL 5062	C	DA98C1A1411	Halloysite	1	NULL	NULL	93.211	1.024	1.104	R
DA98C11414	DA981414	22/09/98	EL 5062	C	DA98C1A1414	Kaolinite	0.731	Illite	0.269	97.353	1.029	1.039	R
DA98C11415	DA981415	22/09/98	EL 5062	C	DA98C1A1415	Kaolinite	0.558	Halloysite	0.442	82.058	1.011	1.072	R
DA98C11420	DA981420	22/09/98	EL 5062	C	DA98C1A1420	Muscovite	0.721	Halloysite	0.279	147.296	1.016	0.981	R
DA98C11421	DA981421	22/09/98	EL 5062	C	DA98C1A1421	Muscovite	0.888	Gypsum	0.112	398.099	0.995	0.929	R
DA98C11422	DA981422	22/09/98	EL 5062	C	DA98C1A1422	Illite	0.673	Halloysite	0.327	155.894	1.007	0.977	R
DA98C11423	DA981423	22/09/98	EL 5062	C	DA98C1A1423	Muscovite	0.611	Halloysite	0.389	118.272	1.003	0.985	R
DA98C11424	DA981424	22/09/98	EL 5062	C	DA98C1A1424	Illite	0.5	Halloysite	0.5	109.45	1	1.019	R
DA98C11425	DA981425	22/09/98	EL 5062	C	DA98C1A1425	Illite	0.581	Halloysite	0.419	123.415	1.006	0.973	R
DA98C11426	DA981426	22/09/98	EL 5062	C	DA98C1A1426	Muscovite	0.587	Halloysite	0.413	130.322	1.011	0.986	R
DA98C11437	DA981437	22/09/98	EL 5062	C	DA98C1A1437	Halloysite	0.587	Muscovite	0.413	96.804	1.021	1.052	R
DA98C11439	DA981439	22/09/98	EL 5062	C	DA98C1A1439	Halloysite	1	NULL	NULL	102.16	1.038	1.167	R
DA98C11440	DA981440	22/09/98	EL 5062	C	DA98C1A1440	Kaolinite	1	NULL	NULL	108.486	1.016	1.093	R
DA98C11441	DA981441	22/09/98	EL 5062	C	DA98C1A1441	Muscovite	0.568	Halloysite	0.432	147.673	1.003	0.998	R
DA98C11442	DA981442	22/09/98	EL 5062	C	DA98C1A1442	Kaolinite	1	NULL	NULL	154.057	1.04	1.042	R
DA98C11443	DA981443	22/09/98	EL 5062	C	DA98C1A1443	Kaolinite	1	NULL	NULL	182.403	1.028	1.025	R
DA98C11444	DA981444	22/09/98	EL 5062	C	DA98C1A1444	Kaolinite	1	NULL	NULL	167.636	1.022	1.008	R
DA98C11445	DA981445	22/09/98	EL 5062	C	DA98C1A1445	Kaolinite	1	NULL	NULL	148.628	1.042	1.054	R
DA98C11446	DA981446	22/09/98	EL 5062	C	DA98C1A1446	Kaolinite	1	NULL	NULL	91.92	1.068	1.135	R
DA98C11456	DA981456	22/09/98	EL 5062	C	DA98C1A1456	Kaolinite	1	NULL	NULL	72.005	1.053	1.141	R
DA98C11457	DA981457	22/09/98	EL 5062	C	DA98C1A1457	Kaolinite	1	NULL	NULL	83.614	1.046	1.105	R
DA98C11458	DA981458	22/09/98	EL 5062	C	DA98C1A1458	Kaolinite	1	NULL	NULL	139.379	1.023	1.053	R
DA98C11459	DA981459	22/09/98	EL 5062	C	DA98C1A1459	Kaolinite	1	NULL	NULL	123.147	1.025	1.035	R
DA98C11460	DA981460	22/09/98	EL 5062	C	DA98C1A1460	Kaolinite	1	NULL	NULL	97.294	1.041	1.081	R

Sample Number	Station ID	Date	EL Name	Sample Code	Pima File	TSA Mineral 1	TSA Weight 1	Tsa Mineral 2	TSA Weight 2	TSA Error	Kaolinite Crystallinity	AlOH Crystallinity	Representation
DA98C11461	DA981461	22/09/98	EL 5062	C	DA98C1A1461	Kaolinite	1	NULL	NULL	157.013	1.018	1.028	R
DA98C11462	DA981462	24/09/98	EL 5061	C	DA98C1A1462	Illite	1	NULL	NULL	41.758	0.997	1.051	R
DA98C11463	DA981463	24/09/98	EL 5061	C	DA98C1A1463	Kaolinite	0.603	Illite	0.397	127.212	1.005	1.063	R
DA98C11464	DA981464	24/09/98	EL 5061	C	DA98C1A1464	Halloysite	1	NULL	NULL	136.368	1.002	1.011	R
DA98C11465	DA981465	24/09/98	EL 5061	C	DA98C1A1465	Muscovite	0.777	Alunite	0.223	268.691	1.002	0.92	R
DA98C11466	DA981466	24/09/98	EL 5061	C	DA98C1A1466	Illite	1	NULL	NULL	148.394	1.003	0.993	R
DA98C11467	DA981467	24/09/98	EL 5061	C	DA98C1A1467	Kaolinite	0.692	Paragonite	0.308	57.629	0.998	1.138	R
DA98C11468	DA981468	24/09/98	EL 5061	C	DA98C1A1468	Illite	1	NULL	NULL	163.693	1	0.993	R
DA98C11469	DA981469	24/09/98	EL 5061	C	DA98C1A1469	Muscovite	0.689	Kaolinite	0.311	65.725	0.996	1.052	R
DA98C11470	DA981470	24/09/98	EL 5061	C	DA98C1A1470	Illite	0.524	Muscovite	0.476	30.813	1.006	1.069	R
DA98C11471	DA981471	24/09/98	EL 5061	C	DA98C1A1471	Illite	1	NULL	NULL	19.368	1.001	1.101	R
DA98C11472	DA981472	24/09/98	EL 5061	C	DA98C1A1472	Illite	1	NULL	NULL	103.244	1.002	1.006	R
DA98C11473	DA981473	24/09/98	EL 5061	C	DA98C1A1473	Paragonite	0.551	Kaolinite	0.449	182.696	0.98	0.973	R
DA98C11474	DA981474	24/09/98	EL 5061	C	DA98C1A1474	Kaolinite	0.581	Illite	0.419	103.33	0.991	1.073	R
DA98C11475	DA981475	24/09/98	EL 5061	C	DA98C1A1475	Illite	0.651	Halloysite	0.349	49.264	1.004	1.107	R
DA98C11476	DA981476	24/09/98	EL 5061	C	DA98C1A1476	Illite	0.584	Kaolinite	0.416	73.592	1	1.08	R
DA98C11477	DA981477	24/09/98	EL 5061	C	DA98C1A1477	Dickite	1	NULL	NULL	59.408	0.873	1.182	R
DA98C11478	DA981478	24/09/98	EL 5061	C	DA98C1A1478	Illite	1	NULL	NULL	33.743	1.006	1.007	R
DA98C11479	DA981479	24/09/98	EL 5061	C	DA98C1A1479	Illite	0.615	Nacrite	0.385	46.935	0.952	1.144	R
DA98C11480	DA981480	24/09/98	EL 5061	C	DA98C1A1480	Illite	0.673	Kaolinite	0.327	75.253	0.99	1.047	R
DA98C11481	DA981481	24/09/98	EL 5061	C	DA98C1A1481	Illite	1	NULL	NULL	38.03	1.009	1.031	R
DA98C11482	DA981482	24/09/98	EL 5061	C	DA98C1A1482	Illite	0.763	Kaolinite	0.237	75.515	0.994	1.072	R
DA98C11483	DA981483	24/09/98	EL 5061	C	DA98C1A1483	Illite	1	NULL	NULL	87.792	0.998	1.142	R
DA98C11484	DA981484	24/09/98	EL 5061	C	DA98C1A1484	Muscovite	1	NULL	NULL	17.984	1	0.985	R
DA98C11485	DA981485	24/09/98	EL 5061	C	DA98C1A1485	Kaolinite	0.635	Muscovite	0.365	83.448	1.014	1.114	R
DA98C11486	DA981486	24/09/98	EL 5061	C	DA98C1A1486	Muscovite	1	NULL	NULL	18.76	1.005	1.006	R
DA98C11487	DA981487	24/09/98	EL 5061	C	DA98C1A1487	Muscovite	1	NULL	NULL	11.29	1.001	0.981	R
DA98C11488	DA981488	24/09/98	EL 5061	C	DA98C1A1488	Muscovite	1	NULL	NULL	9.316	1.009	0.989	R
DA98C11489	DA981489	24/09/98	EL 5061	C	DA98C1A1489	Illite	1	NULL	NULL	28.961	0.987	1.048	R
DA98C11490	DA981490	24/09/98	EL 5061	C	DA98C1A1490	Kaolinite	0.574	Muscovite	0.426	81.29	1.011	1.039	R
DA98C11491	DA981491	24/09/98	EL 5061	C	DA98C1A1491	Illite	0.596	Kaolinite	0.404	186.735	1.002	1.021	R
DA98C11600	DA981600	22/09/98	EL 5062	C	DA98C1A1600	Phengite	0.529	Halloysite	0.471	139.326	1.022	0.98	R
DA98C11602	DA981602	22/09/98	EL 5062	C	DA98C1A1602	Muscovite	0.664	Halloysite	0.336	134.796	1.012	0.96	R
DA98C11603	DA981603	22/09/98	EL 5062	C	DA98C1A1603	Kaolinite	0.505	Muscovite	0.495	191.822	1.004	0.985	R
DA98C11604	DA981604	22/09/98	EL 5062	C	DA98C1A1604	Kaolinite	1	NULL	NULL	112.544	1.038	1.105	R
DA98C11605	DA981605	22/09/98	EL 5062	C	DA98C1A1605	Muscovite	0.605	Halloysite	0.395	135.464	1.01	0.954	R
DA98C11606	DA981606	22/09/98	EL 5062	C	DA98C1A1606	Illite	0.543	Halloysite	0.457	155.732	1.011	0.918	R
DA98C11607	DA981607	22/09/98	EL 5062	C	DA98C1A1607	Halloysite	0.523	Muscovite	0.477	107.941	1.004	1.02	R
DA98C11614	DA981614	22/09/98	EL 5062	C	DA98C1A1614	Kaolinite	1	NULL	NULL	132	1.027	1.066	R
DA98C11615	DA981615	22/09/98	EL 5062	C	DA98C1A1615	Kaolinite	1	NULL	NULL	128.712	1.013	1.024	R
DA98C11616	DA981616	22/09/98	EL 5062	C	DA98C1A1616	Kaolinite	0.709	Illite	0.291	92.48	1.011	1.071	R
DA98C11618	DA981618	22/09/98	EL 5062	C	DA98C1A1618	Kaolinite	0.537	Muscovite	0.463	160.385	1.008	0.996	R
DA98C11619	DA981619	22/09/98	EL 5062	C	DA98C1A1619	Halloysite	0.566	Muscovite	0.434	235.806	1.01	0.985	R
DA98C11620	DA981620	22/09/98	EL 5062	C	DA98C1A1620	Halloysite	1	NULL	NULL	173.71	1.017	0.926	R
DA98C11621	DA981621	22/09/98	EL 5062	C	DA98C1A1621	Halloysite	1	NULL	NULL	174.834	1.004	1.005	R
DA98C11622	DA981622	22/09/98	EL 5062	C	DA98C1A1622	Halloysite	1	NULL	NULL	189.499	1.004	0.963	R

Sample Number	Station ID	Date	EL Name	Sample Code	Pima File	TSA Mineral 1	TSA Weight 1	Tsa Mineral 2	TSA Weight 2	TSA Error	Kaolinite Crystallinity	AlOH Crystallinity	Representation
DA98C11623	DA981623	22/09/98	EL 5062	C	DA98C1A1623	Halloysite	0.62	Illite	0.38	124.32	1	0.979	R
DA98C11624	DA981624	22/09/98	EL 5062	C	DA98C1A1624	Halloysite	1	NULL	NULL	127.08	1.027	1.054	R
DA98C11625	DA981625	22/09/98	EL 5062	C	DA98C1A1625	Kaolinite	0.576	Muscovite	0.424	118.4	1.017	1.044	R
DA98C11634	DA981634	22/09/98	EL 5062	C	DA98C1A1634	Kaolinite	1	NULL	NULL	61.017	1.04	1.126	R
DA98C11639	DA981639	22/09/98	EL 5062	C	DA98C1A1639	Illite	0.593	Halloysite	0.407	184.356	1.008	0.938	R
DA98C11640	DA981640	22/09/98	EL 5062	C	DA98C1A1640	Kaolinite	0.572	Muscovite	0.428	102.233	1.013	1.03	R
DA98C11641	DA981641	22/09/98	EL 5062	C	DA98C1A1641	Kaolinite	0.533	Illite	0.467	202.82	0.995	0.973	R
DA98C11642	DA981642	22/09/98	EL 5062	C	DA98C1A1642	Kaolinite	1	NULL	NULL	169.715	1.024	1.02	R
DA98C11643	DA981643	22/09/98	EL 5062	C	DA98C1A1643	Kaolinite	0.725	Muscovite	0.275	79.315	1.054	1.093	R
DA98C11644	DA981644	22/09/98	EL 5062	C	DA98C1A1644	Kaolinite	0.707	Muscovite	0.293	115.321	1.039	1.04	R
DA98C11646	DA981646	22/09/98	EL 5062	C	DA98C1A1646	Illite	0.54	Halloysite	0.46	94.922	1.011	1.04	R
DA98C11900	DA981900	22/09/98	EL 5062	C	DA98C1A1900	NULL	NULL	NULL	NULL	NULL	1.006	0.838	R
DA98C11901	DA981901	22/09/98	EL 5062	C	DA98C1A1901	Halloysite	0.555	Muscovite	0.445	133.615	1.01	0.985	R
DA98C11902	DA981902	22/09/98	EL 5062	C	DA98C1A1902	Kaolinite	1	NULL	NULL	86.753	1.047	1.093	R
DA98C21903	DA981903	22/09/98	EL 5062	C	DA98C2A1903	Illite	0.591	Halloysite	0.409	153.565	1.018	0.972	R
DA98C11903	DA981903	22/09/98	EL 5062	C	DA98C1A1903	Halloysite	0.579	Illite	0.421	74.835	1.034	1.045	R
DA98C12008	DA982008	23/08/98	EL 5062	C	DA98C1A2008	Kaolinite	1	NULL	NULL	198.427	1.019	0.979	R
DA98C12009	DA982009	23/08/98	EL 5062	C	DA98C1A2009	Illite	0.54	Paragonite	0.46	66.276	0.995	1.098	R
DA98C12011	DA982011	23/08/98	EL 5062	C	DA98C1A2011	Kaolinite	0.81	Muscovite	0.19	33.373	1.097	1.238	R
DA98C12013	DA982013	23/08/98	EL 5062	C	DA98C1A2013	Kaolinite	0.541	Halloysite	0.459	410.436	1.028	0.895	R
DA98C12014	DA982014	23/08/98	EL 5062	C	DA98C1A2014	Halloysite	0.711	Ankerite	0.289	292.721	1.043	0.918	R
DA98C12015	DA982015	23/08/98	EL 5062	C	DA98C1A2015	Illite	0.729	Prehnite	0.271	62.6	0.845	1.209	R
DA98C22015	DA982015	23/08/98	EL 5062	C	DA98C2A2015	MgChlorite	0.554	Kaolinite	0.446	485.008	1.01	0.896	D
DA98C13001	DA983001	23/08/98	EL 5062	C	DA98C1A3001	Illite	1	NULL	NULL	198.834	1.011	0.968	R
DA98C13002	DA983002	23/08/98	EL 5062	C	DA98C1A3002	Muscovite	0.705	Opal	0.295	75.47	1.034	1.042	R
DA98C13004	DA983004	23/08/98	EL 5062	C	DA98C1A3004	Muscovite	0.748	Halloysite	0.252	71.795	1.002	1.017	R
DA98C13005	DA983005	23/08/98	EL 5062	C	DA98C1A3005	Muscovite	1	NULL	NULL	166.698	1.021	0.986	R
DA98C13006	DA983006	23/08/98	EL 5062	C	DA98C1A3006	Kaolinite	0.761	Tourmaline	0.239	583.071	1.025	0.969	R
DA98C13007	DA983007	23/08/98	EL 5061	C	DA98C1A3007	Illite	0.749	Gypsum	0.251	368.435	1	0.921	R
DA98C13008	DA983008	23/08/98	EL 5061	C	DA98C1A3008	Cerussite	0.704	Kaolinite	0.296	581.322	1.021	1	R
DA98C13200	DA983200	13/09/98	EL 5061	C	DA98C1A3200	Muscovite	0.753	Halloysite	0.247	31.408	1.01	1.029	R
DA98C13201	DA983201	13/09/98	EL 5061	C	DA98C1A3201	Illite	1	NULL	NULL	64.253	0.989	1.022	R
DA98C13202	DA983202	13/09/98	EL 5061	C	DA98C1A3202	Kaolinite	1	NULL	NULL	136.755	1.016	1.041	R
DA98C13203	DA983203	13/09/98	EL 5061	C	DA98C1A3203	Illite	1	NULL	NULL	33.958	0.995	1.056	R
DA98C13204	DA983204	13/09/98	EL 5061	C	DA98C1A3204	Illite	0.735	Kaolinite	0.265	58.292	1.013	1.072	R
DA98C13205	DA983205	13/09/98	EL 5061	C	DA98C1A3205	Illite	0.677	Halloysite	0.323	44.517	1.007	1.117	R
DA98C13206	DA983206	13/09/98	EL 5061	C	DA98C1A3206	Kaolinite	0.623	Illite	0.377	72.368	1.027	1.079	R
DA98C13207	DA983207	13/09/98	EL 5061	C	DA98C1A3207	Illite	0.824	Halloysite	0.176	35.043	1.012	1.116	R
DA98C13208	DA983208	13/09/98	EL 5061	C	DA98C1A3208	Illite	0.795	Halloysite	0.205	25.925	0.999	1.144	R
DA98C13209	DA983209	13/09/98	EL 5061	C	DA98C1A3209	Illite	0.718	Gibbsite	0.282	208.552	1.002	1.009	R
DA98C13210	DA983210	13/09/98	EL 5061	C	DA98C1A3210	Illite	1	NULL	NULL	89.431	0.999	1.069	R
DA98C13211	DA983211	13/09/98	EL 5061	C	DA98C1A3211	Illite	0.575	Kaolinite	0.425	79.402	0.998	1.118	R
DA98C13212	DA983212	13/09/98	EL 5061	C	DA98C1A3212	Kaolinite	0.53	Illite	0.47	79.105	0.994	1.072	R
DA98C13213	DA983213	13/09/98	EL 5061	C	DA98C1A3213	Kaolinite	0.504	Illite	0.496	60.886	0.999	1.117	R
DA98C13214	DA983214	13/09/98	EL 5061	C	DA98C1A3214	Illite	0.684	Nacrite	0.316	25.843	0.991	1.034	R
DA98C13215	DA983215	13/09/98	EL 5061	C	DA98C1A3215	Illite	1	NULL	NULL	44.64	0.974	1.114	R

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DA98C13216	DA983216	13/09/98	EL 5061	C	DA98C1A3216	Illite	1	NULL	NULL	54.222	1	1.117	R
DA98C13217	DA983217	13/09/98	EL 5061	C	DA98C1A3217	Illite	1	NULL	NULL	76.952	0.98	1.062	R
DA98C13218	DA983218	13/09/98	EL 5061	C	DA98C1A3218	Illite	1	NULL	NULL	20.887	1.004	1.002	R
DA98C13219	DA983219	13/09/98	EL 5061	C	DA98C1A3219	Dickite	0.661	Muscovite	0.339	90.109	0.938	1.128	R
DA98C13220	DA983220	13/09/98	EL 5061	C	DA98C1A3220	Muscovite	0.644	Kaolinite	0.356	64.721	1.018	1.091	R
DA98C13221	DA983221	13/09/98	EL 5061	C	DA98C1A3221	Nacrite	0.534	Illite	0.466	85.924	0.972	1.079	R
DA98C13222	DA983222	13/09/98	EL 5061	C	DA98C1A3222	Illite	0.718	Nacrite	0.282	79.227	1	1.054	R
DA98C13223	DA983223	13/09/98	EL 5061	C	DA98C1A3223	Muscovite	1	NULL	NULL	31.693	1.007	1.012	R
DA98C13224	DA983224	13/09/98	EL 5061	C	DA98C1A3224	Kaolinite	0.667	Illite	0.333	82.66	1.003	1.074	R
DA98C13225	DA983225	13/09/98	EL 5061	C	DA98C1A3225	Kaolinite	0.625	Illite	0.375	95.219	1.009	1.067	R
DA98C13226	DA983226	13/09/98	EL 5061	C	DA98C1A3226	Muscovite	1	NULL	NULL	68.786	1.006	1.015	R
DA98C13227	DA983227	13/09/98	EL 5061	C	DA98C1A3227	Illite	1	NULL	NULL	26.965	0.98	1.111	R
DA98C13228	DA983228	13/09/98	EL 5061	C	DA98C1A3228	Illite	1	NULL	NULL	22.969	0.993	1.09	R
DA98C13229	DA983229	13/09/98	EL 5061	C	DA98C1A3229	Illite	0.793	Kaolinite	0.207	47.4	1.005	1.044	R
DA98C13230	DA983230	13/09/98	EL 5061	C	DA98C1A3230	Illite	1	NULL	NULL	42.887	0.985	1.031	R
DA98C13231	DA983231	13/09/98	EL 5061	C	DA98C1A3231	Illite	0.836	Gypsum	0.164	94.114	0.996	0.976	R
DA98C13232	DA983232	13/09/98	EL 5061	C	DA98C1A3232	Illite	1	NULL	NULL	153.393	0.998	0.994	R
DA98C13233	DA983233	13/09/98	EL 5061	C	DA98C1A3233	Illite	0.78	Halloysite	0.22	25.528	0.99	1.087	R
DA98C13234	DA983234	13/09/98	EL 5061	C	DA98C1A3234	Kaolinite	0.518	Illite	0.482	56.133	1.009	1.167	R
DA98C13235	DA983235	13/09/98	EL 5061	C	DA98C1A3235	Illite	0.848	Halloysite	0.152	21.696	0.983	1.114	R
DA98C13236	DA983236	13/09/98	EL 5061	C	DA98C1A3236	Kaolinite	0.598	Illite	0.402	69.569	1.019	1.161	R
DA98C13237	DA983237	13/09/98	EL 5061	C	DA98C1A3237	Illite	0.79	Halloysite	0.21	74.501	0.995	1.037	R
DA98C13238	DA983238	13/09/98	EL 5061	C	DA98C1A3238	Illite	1	NULL	NULL	63.627	0.999	1.05	R
DA98C13239	DA983239	13/09/98	EL 5061	C	DA98C1A3239	Muscovite	0.64	Halloysite	0.36	75.2	1.009	1.06	R
DA98C13240	DA983240	13/09/98	EL 5061	C	DA98C1A3240	Illite	0.666	Kaolinite	0.334	71.93	1.004	1.065	R
DA98C13241	DA983241	13/09/98	EL 5061	C	DA98C1A3241	Illite	0.635	Kaolinite	0.365	82.405	0.998	1.06	R
DA98C13242	DA983242	13/09/98	EL 5061	C	DA98C1A3242	Illite	0.581	Nacrite	0.419	60.618	0.977	1.05	R
DA98C13243	DA983243	13/09/98	EL 5061	C	DA98C1A3243	Kaolinite	0.567	Illite	0.433	60.332	1.003	1.197	R
DA98C13244	DA983244	13/09/98	EL 5061	C	DA98C1A3244	Illite	1	NULL	NULL	65.186	0.99	1.078	R
DA98C13245	DA983245	13/09/98	EL 5061	C	DA98C1A3245	NULL	NULL	NULL	NULL	NULL	0.999	0.945	R
DA98C13246	DA983246	13/09/98	EL 5061	C	DA98C1A3246	Illite	0.631	Nacrite	0.369	85.543	0.982	1.032	R
DA98C13247	DA983247	13/09/98	EL 5061	C	DA98C1A3247	Nacrite	0.548	Illite	0.452	82.499	0.968	1.064	R
DA98C13248	DA983248	13/09/98	EL 5061	C	DA98C1A3248	Illite	0.538	Kaolinite	0.462	66.745	1	1.174	R
DA98C13249	DA983249	13/09/98	EL 5061	C	DA98C1A3249	Illite	0.64	Nacrite	0.36	64.117	1	1.035	R
DA98C13250	DA983250	13/09/98	EL 5061	C	DA98C1A3250	Illite	1	NULL	NULL	41.424	1.002	1.004	R
DA98C13251	DA983251	13/09/98	EL 5061	C	DA98C1A3251	Kaolinite	0.638	Illite	0.362	73.174	1.025	1.152	R
DA98C13252	DA983252	13/09/98	EL 5061	C	DA98C1A3252	Illite	0.629	Halloysite	0.371	50.478	1	1.09	R
DA98C13253	DA983253	13/09/98	EL 5061	C	DA98C1A3253	Illite	1	NULL	NULL	41.081	0.992	1.077	R
DA98C13254	DA983254	13/09/98	EL 5061	C	DA98C1A3254	Muscovite	1	NULL	NULL	34.335	1.011	1.011	R
DA98C13255	DA983255	13/09/98	EL 5061	C	DA98C1A3255	Muscovite	1	NULL	NULL	69.501	0.996	1.033	R
DA98C13256	DA983256	13/09/98	EL 5061	C	DA98C1A3256	Muscovite	1	NULL	NULL	16.57	1.002	0.977	R
DA98C13257	DA983257	13/09/98	EL 5061	C	DA98C1A3257	Muscovite	1	NULL	NULL	7.095	1.001	0.975	R
DA98C13258	DA983258	13/09/98	EL 5061	C	DA98C1A3258	NULL	NULL	NULL	NULL	NULL	1.009	0.952	R
DA98C13259	DA983259	13/09/98	EL 5061	C	DA98C1A3259	Illite	0.562	Kaolinite	0.438	100.116	0.997	1.079	R
DA98C13260	DA983260	13/09/98	EL 5061	C	DA98C1A3260	Illite	0.782	Halloysite	0.218	90.479	1	1.036	R
DA98C13261	DA983261	13/09/98	EL 5061	C	DA98C1A3261	Illite	1	NULL	NULL	90.734	0.996	1.038	R

Sample Number	Station ID	Date	EL Name	Sample Code	Pima File	TSA Mineral 1	TSA Weight 1	Tsa Mineral 2	TSA Weight 2	TSA Error	Kaolinite Crystallinity	AlOH Crystallinity	Representation
DA98C13262	DA983262	13/09/98	EL 5061	C	DA98C1A3262	Illite	0.779	Halloysite	0.221	50.87	0.996	1.073	R
DA98C13263	DA983263	13/09/98	EL 5061	C	DA98C1A3263	Illite	1	NULL	NULL	7.328	0.997	0.977	R
DA98C13264	DA983264	13/09/98	EL 5061	C	DA98C1A3264	Illite	1	NULL	NULL	51.567	1.003	1.038	R
DA98C13265	DA983265	13/09/98	EL 5061	C	DA98C1A3265	Illite	1	NULL	NULL	196.573	0.997	1.002	R
DA98C13266	DA983266	13/09/98	EL 5061	C	DA98C1A3266	Muscovite	1	NULL	NULL	51.333	0.996	0.989	R
DA98C13267	DA983267	13/09/98	EL 5061	C	DA98C1A3267	Illite	0.707	Halloysite	0.293	27.204	1.011	1.128	R
DA98C13268	DA983268	13/09/98	EL 5061	C	DA98C1A3268	Illite	0.74	Halloysite	0.26	90.325	1.008	1.032	R
DA98C13269	DA983269	14/09/98	EL 5061	C	DA98C1A3269	Illite	0.821	Halloysite	0.179	47.387	0.997	1.054	R
DA98C13270	DA983270	14/09/98	EL 5061	C	DA98C1A3270	Illite	0.653	Nacrite	0.347	76.574	0.991	1.149	R
DA98C13271	DA983271	14/09/98	EL 5061	C	DA98C1A3271	Illite	1	NULL	NULL	34.968	1	1.018	R
DA98C13272	DA983272	14/09/98	EL 5061	C	DA98C1A3272	Illite	1	NULL	NULL	67.241	1.001	1.083	R
DA98C13273	DA983273	14/09/98	EL 5061	C	DA98C1A3273	Illite	0.508	Kaolinite	0.492	93.781	1.013	1.105	R
DA98C13274	DA983274	14/09/98	EL 5061	C	DA98C1A3274	Illite	0.586	Nacrite	0.414	90.031	0.976	1.038	R
DA98C13275	DA983275	14/09/98	EL 5061	C	DA98C1A3275	Dickite	0.59	Illite	0.41	91.181	0.946	1.129	R
DA98C13276	DA983276	14/09/98	EL 5061	C	DA98C1A3276	Illite	1	NULL	NULL	42.573	0.997	1.06	R
DA98C13277	DA983277	14/09/98	EL 5061	C	DA98C1A3277	Illite	1	NULL	NULL	74.687	0.999	1.022	R
DA98C13278	DA983278	14/09/98	EL 5061	C	DA98C1A3278	Kaolinite	0.556	Illite	0.444	89.467	1	1.123	R
DA98C13279	DA983279	14/09/98	EL 5061	C	DA98C1A3279	Illite	0.799	Nacrite	0.201	35.801	0.968	1.132	R
DA98C13280	DA983280	14/09/98	EL 5061	C	DA98C1A3280	Illite	0.803	Nacrite	0.197	45.144	0.988	1.075	R
DA98C13281	DA983281	14/09/98	EL 5061	C	DA98C1A3281	Illite	0.658	Halloysite	0.342	66.928	1.004	1.11	R
DA98C13282	DA983282	14/09/98	EL 5061	C	DA98C1A3282	Illite	1	NULL	NULL	20.345	0.977	1.1	R
DA98C13283	DA983283	14/09/98	EL 5061	C	DA98C1A3283	Illite	1	NULL	NULL	86.196	0.998	1.026	R
DA98C13284	DA983284	14/09/98	EL 5061	C	DA98C1A3284	Kaolinite	0.584	Illite	0.416	102.235	0.995	1.061	R
DA98C13285	DA983285	14/09/98	EL 5061	C	DA98C1A3285	Illite	0.659	Muscovite	0.341	19.444	0.986	1.087	R
DA98C13286	DA983286	14/09/98	EL 5061	C	DA98C1A3286	Illite	1	NULL	NULL	36.403	0.995	1.081	R
DA98C13287	DA983287	14/09/98	EL 5061	C	DA98C1A3287	Illite	0.517	Kaolinite	0.483	90.877	1.006	1.073	R
DA98C13288	DA983288	14/09/98	EL 5061	C	DA98C1A3288	Illite	1	NULL	NULL	98.294	0.995	1.013	R
DA98C13289	DA983289	14/09/98	EL 5061	C	DA98C1A3289	Illite	0.589	Nacrite	0.411	48.641	0.986	1.053	R
DA98C13290	DA983290	14/09/98	EL 5061	C	DA98C1A3290	Illite	1	NULL	NULL	129.927	1.003	1.003	R
DA98C13291	DA983291	14/09/98	EL 5061	C	DA98C1A3291	Kaolinite	0.542	Illite	0.458	80.013	1.014	1.089	R
DA98C13292	DA983292	14/09/98	EL 5061	C	DA98C1A3292	Illite	1	NULL	NULL	65.654	0.996	1.014	R
DA98C13293	DA983293	14/09/98	EL 5061	C	DA98C1A3293	Illite	1	NULL	NULL	23.298	0.99	1.09	R
DA98C13294	DA983294	14/09/98	EL 5061	C	DA98C1A3294	Kaolinite	0.559	Illite	0.441	122.389	1.004	1.023	R
DA98C13295	DA983295	14/09/98	EL 5061	C	DA98C1A3295	Muscovite	1	NULL	NULL	12.274	1.003	0.981	R
DA98C13296	DA983296	14/09/98	EL 5061	C	DA98C1A3296	Illite	1	NULL	NULL	34.477	0.994	1.034	R
DA98C13297	DA983297	14/09/98	EL 5061	C	DA98C1A3297	Kaolinite	0.726	Illite	0.274	75.25	1.029	1.199	R
DA98C13298	DA983298	14/09/98	EL 5061	C	DA98C1A3298	Illite	1	NULL	NULL	77.596	0.997	1.025	R
DA98C13299	DA983299	14/09/98	EL 5061	C	DA98C1A3299	Illite	1	NULL	NULL	60.863	0.998	1.029	R
DA98C13300	DA983300	14/09/98	EL 5061	C	DA98C1A3300	Illite	1	NULL	NULL	37.758	0.99	1.036	R
DA98C13301	DA983301	14/09/98	EL 5061	C	DA98C1A3301	Illite	0.543	Nacrite	0.457	69.429	0.969	1.152	R
DA98C13302	DA983302	14/09/98	EL 5061	C	DA98C1A3302	Nacrite	0.647	Dickite	0.353	108.899	0.917	1.116	R
DA98C13303	DA983303	14/09/98	EL 5061	C	DA98C1A3303	Illite	0.773	Halloysite	0.227	50.707	1.002	1.118	R
DA98C13304	DA983304	14/09/98	EL 5061	C	DA98C1A3304	Nacrite	0.604	Kaolinite	0.396	78.498	0.898	1.261	R
DA98C13305	DA983305	16/09/98	EL 5062	C	DA98C1A3305	Kaolinite	0.754	Muscovite	0.246	55.789	1.032	1.152	R
DA98C13306	DA983306	16/09/98	EL 5062	C	DA98C1A3306	Illite	1	NULL	NULL	173.744	1.009	0.985	R
DA98C13308	DA983308	16/09/98	EL 5062	C	DA98C1A3308	Illite	0.758	Witherite	0.242	292.886	1.004	0.98	R

Sample Number	Station ID	Date	EL Name	Sample Code	Pima File	TSA Mineral 1	TSA Weight 1	Tsa Mineral 2	TSA Weight 2	TSA Error	Kaolinite Crystallinity	AlOH Crystallinity	Representation
DA98C13313	DA983313	16/09/98	EL 5062	C	DA98C1A3313	Illite	0.76	Witherite	0.24	288.379	1	0.98	R
DA98C13318	DA983318	16/09/98	EL 5062	C	DA98C1A3318	Kaolinite	0.569	Muscovite	0.431	105.143	1.001	1.004	R
DA98C13322	DA983322	16/09/98	EL 5062	C	DA98C1A3322	Kaolinite	1	NULL	NULL	227.093	1.014	1.047	R
DA98C13323	DA983323	16/09/98	EL 5062	C	DA98C1A3323	Kaolinite	0.861	Gypsum	0.139	257.651	1.014	0.96	R
DA98C13328	DA983328	16/09/98	EL 5062	C	DA98C1A3328	Illite	0.664	Kaolinite	0.336	120.007	1.001	1.004	R
DA98C13329	DA983329	16/09/98	EL 5062	C	DA98C1A3329	Muscovite	1	NULL	NULL	72.505	1.025	1.016	R
DA98C13330	DA983330	16/09/98	EL 5062	C	DA98C1A3330	Muscovite	1	NULL	NULL	118.375	1.002	0.966	R
DA98C13331	DA983331	16/09/98	EL 5062	C	DA98C1A3331	Illite	0.731	Gypsum	0.269	233.189	1.012	0.886	R
DA98C13332	DA983332	16/09/98	EL 5062	C	DA98C1A3332	Muscovite	0.561	Kaolinite	0.439	131.378	1.005	1.008	R
DA98C13333	DA983333	16/09/98	EL 5062	C	DA98C1A3333	Muscovite	0.599	Kaolinite	0.401	181.467	1.006	0.992	R
DA98C13335	DA983335	16/09/98	EL 5062	C	DA98C1A3335	Muscovite	0.871	Gypsum	0.129	239.737	1.012	0.95	R
DA98C13339	DA983339	16/09/98	EL 5062	C	DA98C1A3339	Muscovite	0.589	Halloysite	0.411	84.651	1.009	1.063	R
DA98C13341	DA983341	16/09/98	EL 5062	C	DA98C1A3341	Muscovite	1	NULL	NULL	122.73	1.015	0.96	R
DA98C13342	DA983342	16/09/98	EL 5062	C	DA98C1A3342	Muscovite	1	NULL	NULL	122.73	1.015	0.96	R
DA98C13355	DA983355	16/09/98	EL 5062	C	DA98C1A3355	Muscovite	0.603	Kaolinite	0.397	88.533	1.018	1.004	R
DA98C13358	DA983358	16/09/98	EL 5062	C	DA98C1A3358	Muscovite	0.61	Kaolinite	0.39	136.531	1.011	0.995	R
DA98C13367	DA983367	16/09/98	EL 5062	C	DA98C1A3367	Kaolinite	1	NULL	NULL	72.847	1.068	1.26	R
DA98C13368	DA983368	16/09/98	EL 5062	C	DA98C1A3368	Kaolinite	1	NULL	NULL	61.951	1.05	1.224	R
DA98C13369	DA983369	16/09/98	EL 5062	C	DA98C1A3369	Muscovite	0.651	Halloysite	0.349	93.636	1.013	1.061	R
DA98C13370	DA983370	16/09/98	EL 5062	C	DA98C1A3370	Kaolinite	0.635	Muscovite	0.365	237.88	1.004	1.014	R
DA98C13372	DA983372	16/09/98	EL 5062	C	DA98C1A3372	Illite	1	NULL	NULL	24.672	0.993	1.042	R
DA98C13373	DA983373	16/09/98	EL 5062	C	DA98C1A3373	Cerussite	0.542	Muscovite	0.458	295.074	1.003	0.985	R
DA98C13374	DA983374	16/09/98	EL 5062	C	DA98C1A3374	Illite	0.802	Gypsum	0.198	212.342	1	0.939	R
DA98C13376	DA983376	16/09/98	EL 5062	C	DA98C1A3376	Muscovite	0.609	Halloysite	0.391	82.97	1.012	1.05	R
DA98C13377	DA983377	16/09/98	EL 5062	C	DA98C1A3377	Muscovite	0.729	Halloysite	0.271	119.219	1.012	1.013	R
DA98C13380	DA983380	17/09/98	EL 5062	C	DA98C1A3380	Kaolinite	1	NULL	NULL	72.946	1.001	1.019	R
DA98C13381	DA983381	17/09/98	EL 5062	C	DA98C1A3381	Muscovite	1	NULL	NULL	164.483	0.999	0.988	R
DA98C13382	DA983382	17/09/98	EL 5062	C	DA98C1A3382	Kaolinite	1	NULL	NULL	84.171	1.039	1.138	R
DA98C13383	DA983383	17/09/98	EL 5062	C	DA98C1A3383	Illite	0.56	Kaolinite	0.44	75.319	1.003	1.066	R
DA98C13385	DA983385	17/09/98	EL 5062	C	DA98C1A3385	Kaolinite	1	NULL	NULL	55.847	1.068	1.22	R
DA98C13388	DA983388	17/09/98	EL 5062	C	DA98C1A3388	Illite	1	NULL	NULL	91.294	1.002	1.039	R
DA98C13389	DA983389	17/09/98	EL 5062	C	DA98C1A3389	Muscovite	1	NULL	NULL	132.989	1.005	0.969	R
DA98C13390	DA983390	17/09/98	EL 5062	C	DA98C1A3390	Muscovite	0.661	Ankerite	0.339	292.398	1.009	0.965	R
DA98C13396	DA983396	17/09/98	EL 5062	C	DA98C1A3396	Kaolinite	0.557	Illite	0.443	118.608	1.008	0.963	R
DA98C13402	DA983402	16/09/98	EL 5062	C	DA98C1A3402	Illite	1	NULL	NULL	174.937	1.006	0.981	R
DA98C13408	DA983408	16/09/98	EL 5062	C	DA98C1A3408	Cerussite	1	NULL	NULL	146.686	1.009	0.974	R
DA98C13413	DA983413	16/09/98	EL 5062	C	DA98C1A3413	Kaolinite	1	NULL	NULL	78.723	1.045	1.129	R
DA98C13416	DA983416	16/09/98	EL 5062	C	DA98C1A3416	Illite	0.861	Gypsum	0.139	173.637	1.001	0.945	R
DA98C13417	DA983417	16/09/98	EL 5062	C	DA98C1A3417	Kaolinite	0.539	Muscovite	0.461	109.717	1.029	1.084	R
DA98C13418	DA983418	16/09/98	EL 5062	C	DA98C1A3418	Illite	1	NULL	NULL	246.742	1.009	0.983	R
DA98C13419	DA983419	16/09/98	EL 5062	C	DA98C1A3419	Muscovite	0.573	Halloysite	0.427	324.506	1.006	0.996	R
DA98C13420	DA983420	16/09/98	EL 5062	C	DA98C1A3420	Muscovite	0.577	Halloysite	0.423	104.447	1.018	1.066	R
DA98C13421	DA983421	16/09/98	EL 5062	C	DA98C1A3421	Muscovite	0.577	Halloysite	0.423	104.447	1.018	1.066	R
DA98C13427	DA983427	16/09/98	EL 5062	C	DA98C1A3427	Kaolinite	1	NULL	NULL	49.512	1.01	1.028	R
DA98C13428	DA983428	16/09/98	EL 5062	C	DA98C1A3428	Kaolinite	0.88	Gypsum	0.12	203.73	1.043	0.971	R
DA98C13432	DA983432	16/09/98	EL 5062	C	DA98C1A3432	Kaolinite	1	NULL	NULL	249.313	1.009	1.024	R

Sample Number	Station ID	Date	EL Name	Sample Code	Pima File	TSA Mineral 1	TSA Weight 1	Tsa Mineral 2	TSA Weight 2	TSA Error	Kaolinite Crystallinity	AlOH Crystallinity	Representation
DA98C13437	DA983437	16/09/98	EL 5062	C	DA98C1A3437	Muscovite	1	NULL	NULL	102.127	1.009	0.992	
DA98C13438	DA983438	16/09/98	EL 5062	C	DA98C1A3438	Muscovite	0.605	Halloysite	0.395	68.548	1.018	1.071	R
DA98C13439	DA983439	16/09/98	EL 5062	C	DA98C1A3439	Illite	0.864	Gypsum	0.136	216.316	0.996	0.941	R
DA98C13440	DA983440	16/09/98	EL 5062	C	DA98C1A3440	Illite	0.823	Gypsum	0.177	159.747	1.005	0.945	R
DA98C13444	DA983444	16/09/98	EL 5062	C	DA98C1A3444	Illite	0.662	Kaolinite	0.338	74.546	0.997	1.07	R
DA98C13446	DA983446	16/09/98	EL 5062	C	DA98C1A3446	Illite	1	NULL	NULL	204.84	1.004	1.004	R
DA98C13447	DA983447	16/09/98	EL 5062	C	DA98C1A3447	Halloysite	0.515	Illite	0.485	55.887	1.023	1.174	R
DA98C13448	DA983448	16/09/98	EL 5062	C	DA98C1A3448	Illite	1	NULL	NULL	135.247	1.001	1.022	R
DA98C13449	DA983449	16/09/98	EL 5062	C	DA98C1A3449	Illite	1	NULL	NULL	145.399	1.004	1.011	R
DA98C13451	DA983451	16/09/98	EL 5062	C	DA98C1A3451	Illite	1	NULL	NULL	139.131	0.986	0.991	R
DA98C13453	DA983453	16/09/98	EL 5062	C	DA98C1A3453	Illite	0.806	Gypsum	0.194	151.544	1.005	0.956	R
DA98C13454	DA983454	16/09/98	EL 5062	C	DA98C1A3454	Muscovite	0.695	Halloysite	0.305	186.216	1.004	1.001	R
DA98C13455	DA983455	16/09/98	EL 5062	C	DA98C1A3455	Muscovite	0.893	Gypsum	0.107	187.59	0.997	0.98	R
DA98C13457	DA983457	16/09/98	EL 5062	C	DA98C1A3457	Muscovite	0.612	Kaolinite	0.388	84.943	1.016	1.046	R
DA98C13460	DA983460	17/09/98	EL 5062	C	DA98C1A3460	Kaolinite	1	NULL	NULL	53.018	1.028	1.166	R
DA98C13461	DA983461	17/09/98	EL 5062	C	DA98C1A3461	Kaolinite	1	NULL	NULL	93.123	1.044	1.122	R
DA98C13463	DA983463	17/09/98	EL 5062	C	DA98C1A3463	Kaolinite	0.673	Illite	0.327	119.779	1.014	1.03	R
DA98C13464	DA983464	17/09/98	EL 5062	C	DA98C1A3464	Kaolinite	1	NULL	NULL	172.698	1.016	1.038	R
DA98C13465	DA983465	17/09/98	EL 5062	C	DA98C1A3465	Muscovite	0.681	Halloysite	0.319	180.684	1.012	1.015	R
DA98C13466	DA983466	17/09/98	EL 5062	C	DA98C1A3466	Kaolinite	1	NULL	NULL	191.592	1.01	1.023	R
DA98C13467	DA983467	17/09/98	EL 5062	C	DA98C1A3467	NULL	NULL	NULL	NULL	NULL	1.001	0.977	R
DA98C13468	DA983468	17/09/98	EL 5062	C	DA98C1A3468	Muscovite	0.615	Kaolinite	0.385	221.724	1.004	0.988	R
DA98C13469	DA983469	17/09/98	EL 5062	C	DA98C1A3469	Muscovite	0.603	Kaolinite	0.397	115.332	1.006	1.014	R
DA98C13470	DA983470	17/09/98	EL 5062	C	DA98C1A3470	Illite	0.594	Halloysite	0.406	90.406	1.003	1.007	R
DA98C13471	DA983471	17/09/98	EL 5062	C	DA98C1A3471	Kaolinite	0.67	Illite	0.33	170.059	1.012	0.978	R
DA98C13474	DA983474	17/09/98	EL 5062	C	DA98C1A3474	Illite	0.846	Gypsum	0.154	155.238	1.001	1.02	R
DA98C13475	DA983475	17/09/98	EL 5062	C	DA98C1A3475	NULL	NULL	NULL	NULL	NULL	0.996	0.919	R
DA98C13476	DA983476	17/09/98	EL 5062	C	DA98C1A3476	Illite	1	NULL	NULL	155.929	0.998	0.907	R
DA98C13477	DA983477	17/09/98	EL 5062	C	DA98C1A3477	Kaolinite	0.624	Muscovite	0.376	84.346	1.032	1.083	R
DA98C13478	DA983478	17/09/98	EL 5062	C	DA98C1A3478	Muscovite	0.658	Halloysite	0.342	90.874	1.017	1.053	R
DA98C13479	DA983479	17/09/98	EL 5062	C	DA98C1A3479	Illite	1	NULL	NULL	146.169	1.015	1.028	R
DA98C13486	DA983486	17/09/98	EL 5062	C	DA98C1A3486	Muscovite	0.641	Kaolinite	0.359	112.791	1.008	1.028	R
DA98C13490	DA983490	17/09/98	EL 5062	C	DA98C1A3490	Halloysite	1	NULL	NULL	216.94	1.011	0.999	R
DA98C13491	DA983491	17/09/98	EL 5062	C	DA98C1A3491	Kaolinite	0.673	Nacrite	0.327	68.539	1.004	1.114	R
DA98C13492	DA983492	17/09/98	EL 5062	C	DA98C1A3492	Kaolinite	1	NULL	NULL	105.358	1.018	1.106	R
DA98C13493	DA983493	17/09/98	EL 5062	C	DA98C1A3493	Halloysite	0.63	Gibbsite	0.37	103.71	1.008	1.054	R
DA98C13508	DA983508	17/09/98	EL 5062	C	DA98C1A3508	Kaolinite	0.544	Halloysite	0.456	72.307	1.013	1.085	R
DA98C13604	DA983604	17/09/98	EL 5062	C	DA98C1A3604	Kaolinite	1	NULL	NULL	105.569	1.063	1.02	R
DA98C13605	DA983605	17/09/98	EL 5062	C	DA98C1A3605	Montmorillonite	0.776	Halloysite	0.224	401.84	1.008	0.816	R
DA98C13608	DA983608	17/09/98	EL 5062	C	DA98C1A3608	Kaolinite	1	NULL	NULL	154.005	1.024	1.038	R
DA98C23608	DA983608	17/09/98	EL 5062	C	DA98C2A3608	Kaolinite	0.686	Illite	0.314	173.65	1.017	1.011	D
DA98B13609	DA983609	19/09/98	EL 5062	B	DA98B1A3609	Dickite	0.644	Nacrite	0.356	45.521	0.836	1.167	R
DA98B13610	DA983610	19/09/98	EL 5062	B	DA98B1A3610	Illite	0.82	Dickite	0.18	100.507	0.992	1.058	R
DA98B13611	DA983611	19/09/98	EL 5062	B	DA98B1A3611	Illite	0.676	Nacrite	0.324	51.638	0.925	1.168	R
DA98B13612	DA983612	19/09/98	EL 5062	B	DA98B1A3612	Illite	0.769	Paragonite	0.231	24.744	0.977	1.092	R
DA98B13613	DA983613	19/09/98	EL 5062	B	DA98B1A3613	Illite	1	NULL	NULL	106.761	1.005	1.01	R

Sample Number	Station ID	Date	EL Name	Sample Code	Pima File	TSA Mineral 1	TSA Weight 1	Tsa Mineral 2	TSA Weight 2	TSA Error	Kaolinite Crystallinity	AlOH Crystallinity	Representation
DA98B13614	DA983614	19/09/98	EL 5062	B	DA98B1A3614	Cerussite	0.721	Paragonite	0.279	430.061	1.003	0.954	R
DA98B13615	DA983615	19/09/98	EL 5061	B	DA98B1A3615	Illite	1	NULL	NULL	104.959	0.999	1.02	R
DA98B13616	DA983616	19/09/98	EL 5061	B	DA98B1A3616	Illite	0.714	Paragonite	0.286	35.063	0.991	1.103	R
DA98B13617	DA983617	19/09/98	EL 5061	B	DA98B1A3617	Illite	1	NULL	NULL	107.444	0.998	1.024	R
DA98B13618	DA983618	19/09/98	EL 5061	B	DA98B1A3618	Illite	1	NULL	NULL	147.778	1.001	0.996	R
DA98B13619	DA983619	19/09/98	EL 5061	B	DA98B1A3619	Muscovite	1	NULL	NULL	93.447	1.002	0.986	R
DA98B13620	DA983620	19/09/98	EL 5061	B	DA98B1A3620	Illite	0.623	Kaolinite	0.377	39.538	1.007	1.076	R
DA98B13621	DA983621	19/09/98	EL 5061	B	DA98B1A3621	Illite	1	NULL	NULL	148.677	1.003	0.99	R
DA98B13622	DA983622	19/09/98	EL 5061	B	DA98B1A3622	Illite	1	NULL	NULL	140.532	0.995	0.997	R
DA98B13623	DA983623	19/09/98	EL 5061	B	DA98B1A3623	Illite	1	NULL	NULL	61.72	0.998	1.015	R
DA98B13624	DA983624	19/09/98	EL 5061	B	DA98B1A3624	Illite	1	NULL	NULL	79.206	0.996	1.012	R
DA98B13625	DA983625	20/09/98	EL 5062	B	DA98B1A3625	Illite	1	NULL	NULL	128.759	0.995	1.016	R
DA98B13626	DA983626	20/09/98	EL 5062	B	DA98B1A3626	Illite	1	NULL	NULL	57.878	0.974	1.087	R
DA98B13627	DA983627	20/09/98	EL 5062	B	DA98B1A3627	Dickite	0.633	Illite	0.367	37.56	0.835	1.264	R
DA98B13628	DA983628	20/09/98	EL 5062	B	DA98B1A3628	Paragonite	0.501	Muscovite	0.499	82.473	0.991	1.051	R
DA98B13629	DA983629	20/09/98	EL 5062	B	DA98B1A3629	Illite	1	NULL	NULL	189.15	0.995	0.984	R
DA98B13630	DA983630	20/09/98	EL 5062	B	DA98B1A3630	Illite	1	NULL	NULL	119.151	0.997	0.989	R
DA98B13631	DA983631	20/09/98	EL 5062	B	DA98B1A3631	Illite	0.614	Paragonite	0.386	54.475	0.956	1.139	R
DA98B13632	DA983632	20/09/98	EL 5062	B	DA98B1A3632	Illite	0.5	Dickite	0.5	93.952	0.946	1.081	R
DA98B13633	DA983633	20/09/98	EL 5062	B	DA98B1A3633	Illite	1	NULL	NULL	91.535	0.996	1.049	R
DA98B13634	DA983634	20/09/98	EL 5062	B	DA98B1A3634	Illite	0.554	Kaolinite	0.446	68.461	1.009	1.061	R
DA98B13635	DA983635	20/09/98	EL 5062	B	DA98B1A3635	Illite	1	NULL	NULL	131.423	0.996	1.004	R
DA98B13636	DA983636	20/09/98	EL 5061	B	DA98B1A3636	Illite	0.759	Kaolinite	0.241	37.17	1.01	1.126	R
DA98B13637	DA983637	20/09/98	EL 5061	B	DA98B1A3637	Illite	0.774	Kaolinite	0.226	83.925	0.997	1.057	R
DA98B13638	DA983638	20/09/98	EL 5061	B	DA98B1A3638	Illite	0.581	Paragonite	0.419	31.885	0.977	1.146	R
DA98B13639	DA983639	20/09/98	EL 5061	B	DA98B1A3639	Illite	1	NULL	NULL	74.946	0.997	1.01	R
DA98B13640	DA983640	20/09/98	EL 5061	B	DA98B1A3640	Illite	0.815	Gypsum	0.185	189.125	1.002	0.93	R
DA98B13641	DA983641	20/09/98	EL 5061	B	DA98B1A3641	Illite	1	NULL	NULL	84.267	1.003	0.962	R
DA98B13642	DA983642	21/09/98	EL 5061	B	DA98B1A3642	Illite	1	NULL	NULL	47.99	0.995	1.058	R
DA98B13643	DA983643	21/09/98	EL 5061	B	DA98B1A3643	Illite	1	NULL	NULL	22.531	1	1.074	R
DA98B13644	DA983644	21/09/98	EL 5061	B	DA98B1A3644	Illite	0.518	Kaolinite	0.482	78.185	1.007	1.012	R
DA98B13645	DA983645	21/09/98	EL 5061	B	DA98B1A3645	Illite	1	NULL	NULL	236.313	0.997	0.961	R
DA98B13646	DA983646	21/09/98	EL 5061	B	DA98B1A3646	Kaolinite	0.512	Illite	0.488	39.167	1.012	1.07	R
DA98B13647	DA983647	21/09/98	EL 5061	B	DA98B1A3647	Illite	0.82	Gypsum	0.18	194.502	0.999	0.984	R
DA98B13648	DA983648	21/09/98	EL 5061	B	DA98B1A3648	Illite	1	NULL	NULL	113.635	0.993	1.021	R
DA98B13649	DA983649	21/09/98	EL 5061	B	DA98B1A3649	Illite	0.666	Kaolinite	0.334	35.848	1.023	1.077	R
DA98B13650	DA983650	21/09/98	EL 5061	B	DA98B1A3650	Kaolinite	0.513	Illite	0.487	26.941	1.014	1.128	R
DA98B13651	DA983651	21/09/98	EL 5061	B	DA98B1A3651	Illite	0.713	Paragonite	0.287	25.709	0.968	1.124	R
DA98B13652	DA983652	21/09/98	EL 5061	B	DA98B1A3652	Illite	0.524	Kaolinite	0.476	54.332	1.019	1.052	R
DA98B13653	DA983653	21/09/98	EL 5061	B	DA98B1A3653	Kaolinite	0.54	Muscovite	0.46	80.155	1.013	1.075	R
DA98B13654	DA983654	21/09/98	EL 5061	B	DA98B1A3654	Kaolinite	0.69	Illite	0.31	46.247	1.023	1.157	
DA98B13655	DA983655	21/09/98	EL 5061	B	DA98B1A3655	Illite	1	NULL	NULL	157.711	0.992	0.958	R
DA98B13656	DA983656	21/09/98	EL 5061	B	DA98B1A3656	Illite	1	NULL	NULL	90.537	0.995	1.008	R
DA98B13657	DA983657	21/09/98	EL 5061	B	DA98B1A3657	Illite	0.693	Kaolinite	0.307	49.991	1.018	1.034	R
DA98B13658	DA983658	21/09/98	EL 5061	B	DA98B1A3658	Kaolinite	1	NULL	NULL	42.699	1.088	1.25	R
DA98B13659	DA983659	23/09/98	EL 5061	B	DA98B1A3659	Kaolinite	1	NULL	NULL	42.699	1.088	1.25	R

Sample Number	Station ID	Date	EL Name	Sample Code	Pima File	TSA Mineral 1	TSA Weight 1	Tsa Mineral 2	TSA Weight 2	TSA Error	Kaolinite Crystallinity	AlOH Crystallinity	Representation
DA98B13660	DA983660	23/09/98	EL 5061	B	DA98B1A3660	Muscovite	0.721	Kaolinite	0.279	30.497	0.99	1.012	R
DA98B13661	DA983661	23/09/98	EL 5061	B	DA98B1A3661	Illite	1	NULL	NULL	72.129	1.001	1.024	R
DA98B13662	DA983662	23/09/98	EL 5061	B	DA98B1A3662	Kaolinite	0.609	Muscovite	0.391	85.727	1.043	1.048	R
DA98B13663	DA983663	23/09/98	EL 5061	B	DA98B1A3663	NULL	NULL	NULL	NULL	NULL	1.005	0.962	R
DA98B13664	DA983664	23/09/98	EL 5061	B	DA98B1A3664	Muscovite	1	NULL	NULL	169.514	1.019	0.985	R
DA98B13665	DA983665	23/09/98	EL 5061	B	DA98B1A3665	Muscovite	1	NULL	NULL	135.39	1.002	0.986	R
DA98B13666	DA983666	23/09/98	EL 5061	B	DA98B1A3666	Illite	1	NULL	NULL	150.169	1.002	1.002	R
DA98B13667	DA983667	23/09/98	EL 5061	B	DA98B1A3667	Illite	1	NULL	NULL	50.791	0.995	1.079	R
DA98B13668	DA983668	23/09/98	EL 5061	B	DA98B1A3668	Illite	1	NULL	NULL	144.372	0.998	1.004	R
DA98B13669	DA983669	23/09/98	EL 5061	B	DA98B1A3669	Illite	1	NULL	NULL	87.749	0.999	1.037	R
DA98B13670	DA983670	23/09/98	EL 5061	B	DA98B1A3670	Illite	0.529	Kaolinite	0.471	55.924	1.002	1.053	R
DA98B13671	DA983671	23/09/98	EL 5061	B	DA98B1A3671	Illite	1	NULL	NULL	103.31	0.996	1.003	R
DA98B13672	DA983672	23/09/98	EL 5061	B	DA98B1A3672	Illite	0.533	Kaolinite	0.467	191.293	0.998	0.989	R
DA98B13673	DA983673	23/09/98	EL 5061	B	DA98B1A3673	Illite	1	NULL	NULL	210.902	1.006	0.983	R
DA98B13674	DA983674	23/09/98	EL 5061	B	DA98B1A3674	Kaolinite	1	NULL	NULL	78.469	1.03	1.096	R
DA98B13675	DA983675	23/09/98	EL 5061	B	DA98B1A3675	Illite	1	NULL	NULL	21.114	0.979	1.141	R
DA98B13676	DA983676	23/09/98	EL 5061	B	DA98B1A3676	Illite	1	NULL	NULL	61.636	1.003	1.027	R
DA98B13677	DA983677	23/09/98	EL 5061	B	DA98B1A3677	Kaolinite	0.541	Illite	0.459	38.659	0.999	1.073	
DA98B13678	DA983678	23/09/98	EL 5061	B	DA98B1A3678	NULL	NULL	NULL	NULL	NULL	0.997	0.881	R
DA98B13679	DA983679	23/09/98	EL 5061	B	DA98B1A3679	Illite	0.833	Gypsum	0.167	153.293	0.998	0.959	R
DA98B13680	DA983680	23/09/98	EL 5061	B	DA98B1A3680	Illite	1	NULL	NULL	59.799	1.008	1.051	R
DA98B13681	DA983681	23/09/98	EL 5061	B	DA98B1A3681	Illite	1	NULL	NULL	127.352	0.991	1.002	R
DA98B13682	DA983682	23/09/98	EL 5061	B	DA98B1A3682	Illite	0.545	Kaolinite	0.455	29.68	1.018	1.135	R
DA98B13683	DA983683	23/09/98	EL 5061	B	DA98B1A3683	Illite	1	NULL	NULL	43.577	0.997	1.04	R
DA98B13684	DA983684	23/09/98	EL 5061	B	DA98B1A3684	Illite	1	NULL	NULL	67.56	1.004	1.033	R
DA98B13685	DA983685	23/09/98	EL 5061	B	DA98B1A3685	Illite	1	NULL	NULL	58.97	0.991	1.013	R
DA98B13686	DA983686	23/09/98	EL 5061	B	DA98B1A3686	Illite	0.828	Gypsum	0.172	170.506	1.007	0.962	R
DA98B13687	DA983687	23/09/98	EL 5061	B	DA98B1A3687	Illite	0.699	Gypsum	0.301	467.537	0.999	0.912	R
DA98B13688	DA983688	23/09/98	EL 5061	B	DA98B1A3688	Illite	0.536	Kaolinite	0.464	44.254	1.02	1.054	R
DA98B13689	DA983689	24/09/98	EL 5061	B	DA98B1A3689	Halloysite	0.688	Gibbsite	0.312	223.378	1.007	1.02	R
DA98B13690	DA983690	24/09/98	EL 5061	B	DA98B1A3690	Illite	1	NULL	NULL	135.816	0.999	0.987	R
DA98B13691	DA983691	24/09/98	EL 5061	B	DA98B1A3691	Illite	1	NULL	NULL	174.784	1.002	0.985	R
DA98B13692	DA983692	24/09/98	EL 5061	B	DA98B1A3692	Muscovite	1	NULL	NULL	125.018	1.002	0.991	R
DA98B13693	DA983693	24/09/98	EL 5061	B	DA98B1A3693	Muscovite	1	NULL	NULL	52.705	1.005	1.011	R
DA98B13694	DA983694	24/09/98	EL 5061	B	DA98B1A3694	Illite	0.516	Kaolinite	0.484	37.432	1.034	1.139	R
DA98B13695	DA983695	24/09/98	EL 5061	B	DA98B1A3695	Muscovite	0.751	Halloysite	0.249	52.953	1.009	1.036	R