

Spot ID	Use?	Data reduction Notes	Calculated Results														used for weighted mean											
			Isotope ratio data							Tera-Wasserburg		Conventional Concordia			Age Estimate				²⁰⁷ Pb correction									
			²⁰⁶ Pb/ ²³⁸ U	2σ abs	²⁰⁷ Pb/ ²³⁵ U	2σ abs	²⁰⁷ Pb/ ²⁰⁶ Pb	2σ abs	RHO	²³⁸ U/ ²⁰⁶ Pb	2σ %	²⁰⁷ Pb/ ²⁰⁶ Pb	2σ %	²⁰⁷ Pb/ ²³⁵ U	2σ %	²⁰⁶ Pb/ ²³⁸ U	2σ %	RHO Iolite	²⁰⁷ Pb/ ²⁰⁶ Pb	2σ abs	²⁰⁶ Pb/ ²³⁸ U	2σ abs	²⁰⁷ Pb/ ²³⁵ U	2σ abs	²⁰⁷ Pb-corrected ²⁰⁶ Pb/ ²³⁸ U	Age	Common ²⁰⁷ Pb/ ²⁰⁶ Pb Composition	
Estorninhos - EST#1																												
20230517B_EST#1 - 2	no	off the concordia	0.037048	0.006662	0.378342	0.017849	0.073162	0.003281	0.0306	26.9921	1.7860	0.0732	4.4850	0.3783	4.7178	0.0370	1.7860	0.0306	1018.4	90.8	234.5	4.1	325.8	13.2	228.0	4.7	0.85	
20230517B_EST#1 - 3	no	off the concordia	0.039608	0.005884	0.403360	0.018211	0.072839	0.003055	0.0424	25.2475	1.4743	0.0728	4.1947	0.4034	4.5149	0.0396	1.4743	0.0424	1009.5	85.1	250.4	3.6	344.1	13.2	243.7	3.2	0.85	
20230517B_EST#1 - 6	no	off the concordia	0.036479	0.005132	0.340846	0.017614	0.068001	0.010680	0.0001	27.4130	14.0692	0.0680	15.7052	0.3408	5.1677	0.0365	14.0692	0.0001	868.6	325.5	231.0	31.9	297.8	13.3	226.1	31.6	0.85	
20230517B_EST#1 - 7	no	off the concordia	0.037265	0.011184	0.442203	0.023383	0.089956	0.003441	0.6424	26.8350	2.1783	0.0900	3.8251	0.4422	5.0591	0.0373	3.1793	0.6424	1424.6	73.1	235.9	7.4	385.8	16.2	224.5	7.2	0.85	
20230517B_EST#1 - 8	no	off the concordia	0.039652	0.000828	0.336012	0.013069	0.061543	0.002060	0.0000	25.2197	2.0870	0.0615	3.3566	0.3360	3.8894	0.0397	2.0870	0.0000	3314	658.3	72.0	250.7	5.1	294.1	9.9	247.5	5.2	0.85
20230517B_EST#1 - 9	no	off the concordia	0.033735	0.000859	0.269331	0.021952	0.057116	0.004469	0.1506	29.6425	2.5468	0.0571	7.8245	0.2693	8.1504	0.0337	2.5468	0.1506	496.0	174.2	213.9	5.4	242.2	17.6	212.1	5.5	0.85	
20230517B_EST#1 - 11	no	off the concordia	0.041537	0.001325	0.364365	0.027214	0.063754	0.004038	0.5051	24.0749	3.1910	0.0638	6.3343	0.3644	7.4689	0.0415	3.1910	0.5051	733.5	152.4	232.4	8.2	315.5	20.3	258.4	8.3	0.85	
20230517B_EST#1 - 13	no	off the concordia	0.019161	0.001449	0.218567	0.016140	0.079706	0.005077	0.6274	50.6060	7.3347	0.0797	6.3698	0.2186	4.0680	0.0198	7.3347	0.6274	1189.7	125.8	126.1	9.2	200.7	13.5	121.2	8.9	0.84	
20230517B_EST#1 - 15	no	off the concordia	0.035855	0.000722	0.356363	0.014497	0.072111	0.002187	0.6538	28.0229	2.0234	0.0721	3.0324	0.3564	4.0680	0.0357	2.0234	0.6538	989.1	61.7	226.0	4.5	309.5	10.9	220.0	4.5	0.85	
20230517B_EST#1 - 16	no	off the concordia	0.048203	0.001753	0.420888	0.016279	0.065843	0.003886	0.0001	20.7457	3.6359	0.0658	5.9020	0.4209	3.8679	0.0482	3.6359	0.0001	801.4	123.6	303.5	10.8	356.7	11.6	298.5	10.8	0.86	
20230517B_EST#1 - 17	no	off the concordia	0.043881	0.000678	0.389525	0.017684	0.062708	0.002383	0.4303	22.7891	1.5448	0.0627	3.7998	0.3895	4.5399	0.0439	1.5448	0.4303	698.3	80.9	276.8	4.2	334.0	12.9	273.1	4.3	0.85	
20230517B_EST#1 - 20	no	off the concordia	0.040108	0.001017	0.400260	0.021429	0.071680	0.003084	0.5028	24.9330	2.5353	0.0717	4.3026	0.4003	5.0201	0.0403	4.3026	0.5028	976.9	87.7	253.5	6.3	341.8	15.5	253.5	247.1	6.3	0.85
20230517B_EST#1 - 21	no	off the concordia	0.038476	0.002314	0.361767	0.020318	0.068489	0.004464	0.3471	25.9901	6.0138	0.0685	6.5174	0.3618	5.6164	0.0385	6.0138	0.3471	883.4	134.8	243.4	14.4	313.5	15.2	238.1	14.2	0.85	
20230517B_EST#1 - 23	no	off the concordia	0.039986	0.001306	0.387070	0.021474	0.068613	0.002364	0.8672	25.0090	3.2666	0.0686	3.4452	0.3871	5.5479	0.0400	3.2666	0.8672	887.1	71.2	252.7	8.1	332.2	15.7	247.3	8.0	0.85	
20230517B_EST#1 - 24	no	off the concordia	0.021863	0.005037	0.203736	0.037720	0.067310	0.004406	0.9882	45.7384	23.0375	0.0673	20.3757	0.2037	18.5139	0.0219	23.0375	0.9882	847.4	136.1	139.4	31.8	188.3	31.8	136.2	31.2	0.84	
20230517B_EST#1 - 25	no	off the concordia	0.023249	0.000689	0.367228	0.039481	0.114055	0.012023	0.1069	43.0129	2.9622	0.1141	10.5416	0.3672	10.7511	0.0232	2.9622	0.1069	1865.0	190.3	148.2	4.3	317.6	29.3	136.1	4.8	0.85	
20230517B_EST#1 - 10	Yes	first 1/3; ablate through afterwards	0.047764	0.001269	0.363199	0.014923	0.054126	0.002242	0.0587	20.9364	2.6562	0.0541	4.1426	0.3632	4.1089	0.0478	2.6562	0.0587	376.3	93.2	300.8	7.8	314.6	11.1	300.1	7.9	0.86	
20230517B_EST#1 - 14	Yes	Middle 1/10; Pb loss + inheritance?	0.047837	0.001378	0.369011	0.023840	0.052524	0.004077	0.0001	20.9042	2.8807	0.0553	7.3782	0.3690	6.4605	0.0478	2.8807	0.0001	422.5	164.7	301.2	8.5	318.9	17.7	300.2	8.7	0.86	
20230517B_EST#1 - 22	Yes	first 1/5;	0.047925	0.001545	0.365811	0.017398	0.059418	0.001878	0.6864	20.8659	3.2238	0.0541	3.4701	0.3658	4.7560	0.0479	3.2238	0.6864	375.9	78.1	301.8	9.5	316.5	12.9	301.1	9.6	0.86	
20230517B_EST#1 - 18	Yes	First 1/5;	0.047998	0.000751	0.354094	0.010900	0.053013	0.001177	0.6361	20.8343	1.5650	0.0530	2.2202	0.3541	3.0784	0.0480	1.5650	0.6361	329.4	50.4	302.2	4.6	307.8	8.2	302.0	4.7	0.86	
20230517B_EST#1 - 19	Yes	first 1/5;	0.048197	0.001816	0.365177	0.023123	0.053680	0.002291	0.7803	20.7480	3.7687	0.0537	4.2680	0.3652	6.3320	0.0482	3.7687	0.7803	357.7	96.3	303.4	11.2	316.1	17.2	303.0	11.3	0.86	
20230517B_EST#1 - 5	Yes	Middle 1/10; Pb loss + inheritance?	0.048379	0.001094	0.376220	0.026098	0.056125	0.003376	0.4602	20.6700	2.2623	0.0561	6.0152	0.3762	6.9370	0.0484	2.2623	0.4602	457.3	133.4	304.6	6.7	324.3	19.3	303.2	6.9	0.86	
20230517B_EST#1 - 12	Yes	first 1/3; Pb loss	0.048332	0.000779	0.349172	0.016982	0.052193	0.002362	0.0607	20.6904	1.6111	0.0522	4.5247	0.3492	4.8635	0.0483	1.6111	0.0607	293.9	103.3	304.3	4.8	304.1	12.8	304.4	4.9	0.86	
20230517B_EST#1 - 1	Yes	Middle 1/10; Pb loss + inheritance?	0.048844	0.001041	0.370572	0.020065	0.054935	0.002257	0.7409	20.4735	2.1307	0.0549	4.1087	0.3706	5.4146	0.0488	2.1307	0.7409	409.6	91.9	307.4	6.4	320.1	14.9	306.5	6.5	0.86	
20230517B_EST#1 - 4	Yes	Later 1/5; Pb loss + inheritance?	0.048865	0.000854	0.358008	0.021679	0.052289	0.003174	0.0001	20.4644	1.7474	0.0523	6.0693	0.3508	6.1797	0.0489	1.7474	0.0001	298.1	138.5	307.6	5.3	305.3	16.3	307.6	5.4	0.86	
Weighted average																												
																										303.7	2.1	
Piedras Albas Quarry PAQ#1																												
20230517B_PAQ#1 - 2	no	off the concordia	0.047322	0.000914	0.427327	0.021785	0.065048	0.003173	0.0935	21.1318	1.9305	0.0650	4.8776	0.4273	5.0979	0.0473	1.9305	0.0935	775.9	102.6	298.1	5.6	361.3	15.5	293.4	5.7	0.86	
20230517B_PAQ#1 - 4	no	off the concordia	0.046126	0.000699	0.369854	0.014337	0.058194	0.001873	0.3216	21.6799	1.5150	0.0582	3.2181	0.3699	3.8764	0.0461	1.5150	0.3216	537.1	70.4	290.7	4.3	319.5	10.6	288.5	4.4	0.85	
20230517B_PAQ#1 - 5	no	off the concordia	0.036922	0.001111	0.445355	0.028081	0.086715	0.003695	0.8234	27.0842	3.0081	0.0867	4.2614	0.4454	6.3052	0.0369	3.0081	0.8234	1384.2	82.2	233.7	6.9	374.0	19.7	223.4	6.8	0.85	
20230517B_PAQ#1 - 6	no	off the concordia	0.054109	0.001582	0.584495	0.034794	0.077875	0.005134	0.0001	18.4812	2.9229	0.0779	6.5925	0.5845	5.9529	0.0541	2.9229	0.0001	1143.7	131.0	339.7	9.7	467.3	22.3	329.5	9.8	0.86	
20230517B_PAQ#1 - 8	no	off the concordia	0.046246	0.002326	0.402091	0.036925	0.062707	0.003506	0.8605	21.6233	5.0294	0.0627	5.5910	0.4021	9.1832	0.0462	5.0294	0.8605	698.3	119.1	291.4	14.3	343.2	26.7	287.7	14.3	0.85	
20230517B_PAQ#1 - 13	no	off the concordia	0.047479	0.001212	0.395854	0.025764	0.058957	0.003006	0.6050	21.0619	2.5354	0.0590	5.0991	0.3959	6.5084	0.0475	2.5354	0.6050	565.5	111.0	299.0	7.5	338.6	18.7	296.6	7.5	0.86	
20230517B_PAQ#1 - 15	no	off the concordia	0.044334	0.001194	0.372353	0.019609	0.059388	0.002448	0.5219	22.5560	2.6942	0.0594	4.1218	0.3724	5.2662	0.0443	2.6942	0.5219	581.4	89.5	279.6	7.4	321.4	14.5	277.1	7.4	0.85	
20230517B_PAQ#1 - 19	no	off the concordia	0.049266	0.001151	0.439426	0.016151	0.064152	0.002274	0.1965	20.2979	2.3363	0.0642	3.5450	0.4394	5.6755	0.0492	2.3363	0.1965	1660.5	160.5	310.0	7.1	369.8	11.4	305.6	7.1	0.85	
20230517B_PAQ#1 - 21	no	off the concordia	0.052886	0.001427	0.561353	0.036565	0.076900	0.004558	0.3572	18.9085	2.6989	0.0769	5.9267	0.5614	6.5137													