

Palo Alto Total Digestion: 1999

1/15/1999: 89% 100 µm

Sample	Weight (g)	Recon. (ml)	Dil. Factor		AL	CR	CU	FE	MN	NI	PB	V	ZN
Tot1	0.7155	10	5	µg/ml	237.2403	1.65645	0.6966	921.75	14.02016	1.22625		1.1949	1.80633
Tot2	0.5161	10	5		524.1038	1.2452	0.5187	442.9487	10.79845	1.00131	0.50892	0.99049	1.42408
				µg/g	16578.64	115.7547	48.67925	64413	979.7456	85.69182		83.50105	126.2285
					50775.41	120.6355	50.25189	42913.07	1046.159	97.00736	49.3044	95.95912	137.9655
Average					33677.03	118.1951	49.46557	53663.03	1012.952	91.34959	49.3044	89.73008	132.097
Std					17098.39	2.440409	0.786322	10749.96	33.20653	5.65777		6.229034	5.8685

2/25/1999: 91% < 100 µm

Sample	Weight (g)	Recon. (ml)	Dil. Factor		AL	CR	CU	FE	MN	NI	PB	V	ZN
Tot1	0.6237	10	5	µg/ml	597.5073	1.39439	0.59967	922.7916	12.59855	1.14781	0.50885	0.96345	1.6858
Tot2	0.5882	10	5		595.8584	1.35625	0.57964	923.4702	11.58138	1.06316	0.46992	1.02277	1.55273
				µg/g	47900.22	111.7837	48.07359	73977.2	1009.985	92.01619	40.79285	77.23665	135.1451
					50651	115.2882	49.27236	78499.67	984.4764	90.37402	39.9456	86.94067	131.99
Average					49275.61	113.5359	48.67297	76238.44	997.2306	91.19511	40.36922	82.08866	133.5675
Std					1375.392	1.752229	0.599382	2261.238	12.7542	0.821086	0.423626	4.852007	1.577566

3/22/1999: 92% <100 µm

Sample	Weight (g)	Recon. (ml)	Dil. Factor		AL	CR	CU	FE	MN	NI	PB	V	ZN
Tot1	0.6853	10	5	µg/ml		1.49227	0.60421	922.4471	14.21782	1.11312		0.92273	1.70963
Tot2	0.6446	10	5		607.9751	1.46209	0.58456	922.8708	13.59202	1.16719	0.517	1.00597	1.64623
				µg/g		108.8771	44.08361	67302.43	1037.343	81.21407		67.32307	124.7359
					47159.1	113.4106	45.34285	71584.77	1054.299	90.53599	40.10239	78.03056	127.6939
Average					47159.1	111.1439	44.71323	69443.6	1045.821	85.87503	40.10239	72.67682	126.2149
Std						2.266754	0.629618	2141.168	8.47801	4.660962		5.353746	1.479018

4/18/1999: 96% <100 µm

Sample	Weight (g)	Recon. (ml)	Dil. Factor		AL	CR	CU	FE	MN	NI	PB	V	ZN
Tot1	0.533	10	5	µg/ml	539.6889	1.27091	0.51445	451.7833	13.13644	1.04105	0.51705	1.01614	1.47134
Tot2	0.5186	10	5		538.9407	1.26072	0.50688	604.8646	12.894	1.01698	0.49385	0.97641	1.4236
				µg/g	50627.48	119.2223	48.25985	42381.17	1232.311	97.65947	48.50375	95.3227	138.0244
					51961.11	121.5503	48.87003	58317.07	1243.155	98.05052	47.61377	94.13903	137.2541
Average					51294.3	120.3863	48.56494	50349.12	1237.733	97.855	48.05876	94.73086	137.6393
Std					666.8185	1.164001	0.305092	7967.949	5.421601	0.195523	0.444992	0.591837	0.385122

5/19/1999: 71% < 100 µm

Sample	Weight (g)	Recon. (ml)	Dil. Factor		AL	CR	CU	FE	MN	NI	PB	V	ZN
Tot1	0.5992	10	5	µg/ml	458.6	1.205	0.443	441.4	8.25	1.001	0.503	0.857	1.372
Tot2	0.5272	10	5		392.5	1.042	0.391	383.0	7.18	0.867	0.437	0.745	1.222
				µg/g	38267.15	100.5683	36.97096	36834.46	688.4705	83.48965	41.93174	71.52203	114.4785
					37227.42	98.842	37.09029	36326.91	681.3667	82.2629	41.41028	70.61646	115.8555
Average					37747.28	99.70513	37.03062	36580.68	684.9186	82.87628	41.67101	71.06925	115.167
Std					519.8647	0.863131	0.059664	253.7733	3.551903	0.613377	0.260731	0.452783	0.688496

6/16/1999: 68% < 100 µm

Sample	Weight (g)	Recon. (ml)	Dil. Factor		AL	CR	CU	FE	MN	NI	PB	V	ZN
Tot1	0.5391	10	5	µg/ml	415.6	1.099	0.432	402.2	7.78	0.926	0.488	0.746	1.283
Tot2	0.5802	10	5		465.2	1.206	0.467	434.6	8.39	0.997	0.522	0.854	1.384
				µg/g	38549.51	101.9301	40.08718	37304.62	721.3068	85.87553	45.22167	69.16249	118.9826
					40089.23	103.909	40.23957	37451.23	723.1394	85.93502	44.99311	73.59186	119.277
Average					39319.37	102.9195	40.16338	37377.92	722.2231	85.90528	45.10739	71.37718	119.1298
Std					769.857	0.989464	0.076195	73.3051	0.916314	0.029745	0.11428	2.214686	0.147205

9/13/1999: 32% <100 µm

Sample	Weight (g)	Recon. (ml)	Dil. Factor		AL	CR	CU	FE	MN	NI	PB	V	ZN
Tot1	0.546	10	5	µg/ml	386.3	1.057	0.369	367.7	9.97	0.843	0.459	0.709	1.167
Tot2	0.5664	10	5		380.8	1.048	0.380	374.9	10.25	0.870	0.465	0.719	1.192
				µg/g	35378.33	96.7674	33.81136	33675.58	912.9322	77.21245	42.00366	64.9185	106.8645
					33616.49	92.50353	33.53902	33097.22	905.2604	76.77701	41.07256	63.49223	105.2119
Average					34497.41	94.63547	33.67519	33386.4	909.0963	76.99473	41.53811	64.20536	106.0382
Std					880.9234	2.131934	0.136168	289.1806	3.835909	0.217721	0.46555	0.713133	0.826302

11/22/1999: 61% <100 µm

Sample	Weight (g)	Recon. (ml)	Dil. Factor		AL	CR	CU	FE	MN	NI	PB	V	ZN
Tot1	0.5634	10	5	µg/ml	525.4722	1.25831	0.47979	433.5162	14.72072	1.01346	0.51633	0.93314	1.38954
Tot2	0.539	10	5		476.9536	1.161	0.46203	415.1571	14.15298	0.99964	0.48691	0.859	1.35316
				µg/g	46634.03	111.6711	42.57987	38473.22	1306.418	89.94143	45.82268	82.81328	123.3174
					44244.3	107.6994	42.85993	38511.79	1312.892	92.73098	45.1679	79.6846	125.525
Average					45439.16	109.6853	42.7199	38492.5	1309.655	91.33621	45.49529	81.24894	124.4212
Std					1194.862	1.98583	0.140027	19.28847	3.237109	1.394778	0.32739	1.564338	1.103844

12/20/1999: 95% <100 µm

Sample	Weight (g)	Recon. (ml)	Dil. Factor		AL	CR	CU	FE	MN	NI	PB	V	ZN
Tot1	0.6115	10	5	µg/ml	663.9915	1.51753	0.61713	531.8403	19.41716	1.25639	0.62077	1.17173	1.7164
Tot2	0.5353	10	5		542.1273	1.29504	0.53026	464.6759	17.1843	1.13528	0.53297	0.95653	1.53921
				µg/g	54292.02	124.0826	50.46034	43486.53	1587.666	102.7302	50.75797	95.80785	140.3434
					50637.7	120.9639	49.52924	43403.32	1605.109	106.0415	49.78237	89.34523	143.7708
Average					52464.86	122.5233	49.99479	43444.92	1596.388	104.3858	50.27017	92.57654	142.0571
Std					1827.16	1.559319	0.465554	41.60738	8.721445	1.65565	0.487804	3.231311	1.713682

Palo Alto HCl Extracts: 1999

1/15/1999

Sample	Weight (g)	Recon. (ml)		AL	CR	CU	FE	MN	NI	PB	V	ZN
HCl1	0.6133	10	µg/ml	140.4072	0.28277	1.14212	276.1162	45.43812	0.4735	1.54778	0.66674	2.52816
HCl2	0.6722	10		142.2009	0.26628	1.21303	269.7581	49.14839	0.4601	1.65395	0.69259	2.58786
			µg/g	2289.373	4.610631	18.62253	4502.139	740.8792	7.720528	25.23692	10.87135	41.22224
				2115.455	3.961321	18.04567	4013.063	731.1572	6.844689	24.60503	10.30333	38.49836
Average				2202.414	4.285976	18.3341	4257.601	736.0182	7.282609	24.92097	10.58734	39.8603
Std				86.9586	0.324655	0.288431	244.5381	4.860967	0.43792	0.315943	0.28401	1.361938

2/25/1999

Sample	Weight (g)	Recon. (ml)		AL	CR	CU	FE	MN	NI	PB	V	ZN
HCl1	0.669	10		158.6489	0.31807	1.45478	371.6845	48.14431	0.57869	1.63809	0.81208	2.83392
HCl2	0.5957	10		126.7332	0.23726	1.26154	292.741	41.7374	0.46677	1.44207	0.68761	2.30847
				2371.434	4.75441	21.74559	5555.822	719.6459	8.650075	24.48565	12.13871	42.36054
				2127.467	3.982877	21.17744	4914.236	700.6446	7.835656	24.20799	11.54289	38.75222
Average				2249.451	4.368643	21.46151	5235.029	710.1453	8.242865	24.34682	11.8408	40.55638
Std				121.9832	0.385766	0.284076	320.7932	9.500635	0.40721	0.13883	0.297912	1.804157

3/22/1999

Sample	Weight (g)	Recon. (ml)		AL	CR	CU	FE	MN	NI	PB	V	ZN
HCl1	0.6507	10		132.281	0.26123	1.18889	284.6188	50.88224	0.48568	1.50877	0.64823	2.59923
HCl2	0.6382	10		127.5392	0.23974	1.19376	270.205	51.07645	0.45801	1.51987	0.64069	2.60482
				2032.903	4.0146	18.27094	4374.04	781.9616	7.463962	23.18688	9.962041	39.94514
				1998.421	3.756503	18.70511	4233.861	800.3204	7.17659	23.81495	10.03902	40.8151
Average				2015.662	3.885551	18.48802	4303.95	791.141	7.320276	23.50091	10.00053	40.38012
Std				17.24115	0.129048	0.217085	70.08986	9.179426	0.143686	0.314036	0.038488	0.434984

4/18/1999

Sample	Weight (g)	Recon. (ml)	AL	CR	CU	FE	MN	NI	PB	V	ZN
HCI1	0.5676	10	126.9514	0.24323	1.01707	236.3446	52.99787	0.39419	1.36187	0.63499	2.29036
HCL2	0.5089	10	107.9198	0.20219	0.88573	202.4619	46.52386	0.3357	1.24271	0.54744	1.95115
			2236.635	4.285236	17.91878	4163.928	933.7186	6.944856	23.99348	11.18728	40.35166
			2120.648	3.973079	17.40479	3978.422	914.2044	6.596581	24.41953	10.75732	38.34054
			2178.641	4.129158	17.66179	4071.175	923.9615	6.770718	24.20651	10.9723	39.3461
			57.99355	0.156078	0.256993	92.75273	9.757139	0.174137	0.213025	0.21498	1.005559

**Average
Std**

5/19/1999

Sample	Weight (g)	Recon. (ml)	AL	CR	CU	FE	MN	NI	PB	V	ZN
HCI1	0.5419	10	86.34401	0.1599	0.82339	183.4173	20.7353	0.29659	1.03009	0.43401	1.72746
HCL2	0.5433	10	92.28839	0.17768	0.84818	198.2766	21.08624	0.31539	1.04918	0.44722	1.79737
			1593.357	2.950729	15.1945	3384.708	382.6407	5.47315	19.00886	8.009042	31.87784
			1698.664	3.270385	15.61163	3649.486	388.1141	5.80508	19.31125	8.231548	33.08246
			1646.01	3.110557	15.40307	3517.097	385.3774	5.639115	19.16005	8.120295	32.48015
			52.65332	0.159828	0.208566	132.389	2.736704	0.165965	0.151194	0.111253	0.602311

**Average
Std**

6/16/1999

Sample	Weight (g)	Recon. (ml)	AL	CR	CU	FE	MN	NI	PB	V	ZN
HCI1	0.5262	10	81.02478	0.15993	0.90609	180.3717	19.97484	0.30673	1.00216	0.37188	1.63027
HCL2	0.5498	10	84.89815	0.16371	0.9274	188.375	21.16618	0.32743	1.06075	0.39036	1.72253
			1539.81	3.039339	17.2195	3427.817	379.6055	5.829152	19.04523	7.067275	30.98195
			1544.164	2.977628	16.86795	3426.246	384.9796	5.955438	19.29338	7.100036	31.33012
			1541.987	3.008483	17.04373	3427.031	382.2926	5.892295	19.1693	7.083656	31.15603
			2.177332	0.030855	0.175773	0.785533	2.687078	0.063143	0.124075	0.016381	0.174087

HCI1
HCL2
**Average
Std**

9/13/1999

Sample	Weight (g)	Recon. (ml)	AL	CR	CU	FE	MN	NI	PB	V	ZN
HCI1	0.6131	10	101.8394	0.21767	0.86903	237.2365	40.69833	0.39355	1.22235	0.4234	2.15832
HCI2	0.629	10	100.9626	0.21207	0.86815	234.0393	41.35781	0.38367	1.23003	0.42204	2.1769
			1661.057	3.550318	14.17436	3869.459	663.8123	6.419018	19.9372	6.905888	35.20339
			1605.129	3.371542	13.80207	3720.816	657.5169	6.099682	19.55533	6.709698	34.6089
			1633.093	3.46093	13.98821	3795.137	660.6646	6.25935	19.74627	6.807793	34.90615
			27.96424	0.089388	0.186147	74.3213	3.147707	0.159668	0.190939	0.098095	0.297245

**Average
Std**

11/22/1999

Sample	Weight (g)	Recon. (ml)	AL	CR	CU	FE	MN	NI	PB	V	ZN
HCI1	0.564	10	114.0606	0.25388	0.92812	249.2843	56.7033	0.43157	1.2571	0.51139	2.23696
HCI2	0.5356	10	109.83	0.24462	0.87918	240.7699	54.64427	0.40306	1.22447	0.48544	2.10099
			2022.351	4.501418	16.45603	4419.934	1005.378	7.65195	22.28901	9.067199	39.66241
			2050.597	4.567214	16.41486	4495.331	1020.244	7.525392	22.86165	9.06348	39.22685
		Average	2036.474	4.534316	16.43545	4457.633	1012.811	7.588671	22.57533	9.065339	39.44463
		Std	14.1232	0.032898	0.020583	37.69822	7.433183	0.063279	0.286322	0.001859	0.217781

12/20/1999

Sample	Weight (g)	Recon. (ml)	AL	CR	CU	FE	MN	NI	PB	V	ZN
HCI1	0.4923	10	120.8471	0.26426	0.94902	260.5416	65.91245	0.45402	1.24148	0.58085	2.3014
HCI2	0.523	10	122.7761	0.26957	0.97481	264.277	68.3443	0.44175	1.29133	0.58999	2.489
			2454.745	5.367865	19.27727	5292.334	1338.868	9.222425	25.21796	11.7987	46.74792
			2347.535	5.154302	18.63881	5053.097	1306.774	8.446463	24.69082	11.28088	47.59082
		Average	2401.14	5.261084	18.95804	5172.715	1322.821	8.834444	24.95439	11.53979	47.16937
		Std	53.60504	0.106782	0.319228	119.6184	16.04659	0.387981	0.263567	0.25891	0.421452