Silt Data - GSC Open File 5694 / YGS Open File 2008-4

Unique ID	Rep Stat	Ag AAS	Ag ICP-MS	Al ICP-MS	As HY-AAS	As ICP-MS	As INAA	Au INAA	Au1 INAA	Au1_wt -	B ICP-MS	Ba ICP-MS	Ba INAA	Bi ICP-MS	Br INAA	Ca ICP-MS
		ppm	ppb	%	ppm	ppm	ppm	ppb	ppb	g	ppm	ppm	ppm	ppm	ppm	%
		0.2	2	0.01	1	0.1	0.5	2	2	0.01	1	0.5	50	0.02	0.5	0.01
105J_1989_1002	1	<0.2	50	2.42	2	4.6	5.7	<2			1	157.8	970	0.18	5.4	0.85
105J_1989_1003	2	<0.2	40	2.38	2	4.3	6.0	<2			1	150.8	1100	0.17	4.3	0.80
105J_1989_1004	0	0.2	155	1.92	3	5.6	9.0	<2			1	195.2	920	0.24	11.0	0.57
105J_1989_1005	0	<0.2	77	1.19	2	3.0	4.5	4			1	176.9	1300	0.09	0.7	0.65
105J_1989_1006	0	<0.2	149	1.49	3	6.3	7.9	3			1	272.9	1300	0.16	3.9	0.71
105J_1989_1007	0	0.2	85	1.18	3	5.0	6.8	<2			1	192.1	1200	0.18	3.9	0.49
105J_1989_1008	0	<0.2	276	1.98	4	8.7	10.0	<2			<1	214.7	830	0.35	7.1	0.61
105J_1989_1009	0	<0.2	110	1.20	3	5.8	8.1	<2			1	172.9	1100	0.30	3.6	0.51
105J_1989_1010	0	<0.2	60	1.31	2	4.2	5.5	<2			1	223.3	1200	0.14	7.5	0.30
105J_1989_1011	0	<0.2	55	1.53	2	3.2	5.0	<2			<1	157.2	1200	0.18	7.2	0.41
105J_1989_1012	0	0.3	122	0.27	3	4.6	5.0	<2			9	191.2	270	0.05	25.0	2.86
105J_1989_1013	0	0.2	123	0.84	1	1.8	3.0	<2			4	142.2	900	0.07	30.0	0.99
105J_1989_1014	0	0.3	199	0.40	2	1.0	4.1	<2			14	233.5	850	0.05	16.0	2.18
105J_1989_1015	0	0.2	172	0.74	4	7.0	8.7	5			2	234.6	1600	0.11	17.0	0.62
105J_1989_1016	0	0.2	63	0.11	5	11.5	12.0	<2			93	26.4	<50	0.02	112.0	2.96
105J_1989_1017	0	<0.2	274	0.62	7	12.3	15.0	5			3	427.4	2600	0.12	18.0	0.87
105J_1989_1019	0	<0.2	145	0.44	4	7.3	7.8	<2			13	431.3	890	0.07	13.0	3.67
105J_1989_1020	0	0.4	240	0.67	2	2.8	4.0	4			2	459.2	1800	0.11	4.3	0.90
105J_1989_1022	0	0.2	271	0.59	8	12.7	15.0	3			2	365.0	1800	0.12	2.7	0.81
105J_1989_1023	0	<0.2	107	0.19	70	113.4	99.1	<2			8	135.5	540	0.10	44.0	3.13
105J_1989_1024	0	<0.2	283	0.98	9	14.9	20.0	4			2	300.0	1700	0.42	5.1	0.99
105J_1989_1025	1	0.2	136	0.51	5	7.6	10.0	3			2	449.0	2300	0.08	2.0	0.59
105J_1989_1026	2	<0.2	168	0.55	5	8.1	12.0	5			2	445.6	2500	0.08	2.0	0.56
105J_1989_1027	0	0.3	294	0.69	10	16.3	22.0	5			2	347.1	2100	0.26	2.0	1.03
105J_1989_1028	0	0.5	586	0.74	16	26.7	33.0	4			3	233.1	1200	0.18	6.1	0.95
105J_1989_1029	0	0.5	387	0.70	11	17.6	21.0	<2			1	308.3	2200	0.63	1.6	0.84
105J_1989_1030	0	0.3	183	1.07	16	10.8	14.0	<2			2	275.9	1300	0.15	14.0	0.92
105J_1989_1031	0	0.5	474	0.79	14	24.5	24.0	3			2	322.0	690	0.28	24.0	1.36
105J_1989_1032	0	<0.2	236	0.74	14	20.9	25.0	3			2	642.4	2200	0.32	6.6	0.77
105J_1989_1033	0	0.2	231	0.68	5	9.0	11.0	3			1	470.4	2400	0.17	1.8	0.57
105J_1989_1034	0	<0.2	137	0.56	4	6.2	8.2	<2			2	459.4	2700	0.09	2.0	0.74
105J_1989_1035	0	0.4	221	0.57	1	1.8	3.3	<2			1	201.1	1500	0.10	7.0	0.75
105J_1989_1036	0	0.3	336	0.54	7	9.8	14.0	5			1	316.4	1900	0.28	1.3	0.73

Unique ID	Rep Stat	Cd AAS	Cd ICP-MS	Ce INAA	Co AAS	Co ICP-MS	Co INAA	Cr ICP-MS	Cr INAA	Cs INAA	Cu AAS	Cu ICP-MS	Eu INAA	F ISE	Fe AAS	Fe ICP-MS	Fe INAA
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	pct	%	pct
		0.2	0.01	5	2	0.1	5	0.5	20	0.5	2	0.01	1	20	0.02	0.01	0.2
105J_1989_1002	1	<0.2	0.27	68	5	7.2	8	11.6	26	5.3	9	6.70	<1	308	3.18	3.04	4.0
105J_1989_1003	2	<0.2	0.22	90	7	7.0	12	11.2	26	5.3	8	6.20	<1	358	3.33	2.96	4.9
105J_1989_1004	0	<0.2	0.39	73	8	8.3	10	10.8	<20	16.0	9	7.72	<1	502	3.47	3.30	4.0
105J_1989_1005	0	<0.2	0.23	66	3	4.0	8	8.7	36	3.2	10	8.13	<1	336	1.21	1.16	2.1
105J_1989_1006	0	<0.2	0.28	66	4	3.9	6	10.2	30	4.0	12	8.98	1	314	1.92	1.54	2.3
105J_1989_1007	0	0.3	0.40	80	3	4.0	<5	9.1	35	6.2	11	8.25	<1	323	1.55	1.36	2.2
105J_1989_1008	0	0.3	0.38	60	4	3.7	9	9.6	28	15.0	11	8.58	<1	303	1.90	1.48	2.8
105J_1989_1009	0	<0.2	0.36	95	3	3.7	8	9.3	44	10.0	11	8.66	<1	341	1.43	1.31	2.1
105J_1989_1010	0	<0.2	0.32	74	6	5.3	7	11.9	49	3.9	11	8.21	1	367	2.22	1.66	2.5
105J_1989_1011	0	<0.2	0.18	83	4	4.5	7	8.5	30	6.9	8	6.99	1	332	1.85	1.67	3.0
105J_1989_1012	0	1.5	1.77	12	5	6.1	<5	4.5	<20	<0.5	27	21.94	<1	106	0.94	1.05	1.1
105J_1989_1013	0	0.5	0.69	52	3	3.0	<5	7.8	29	3.2	23	20.22	<1	339	1.05	0.84	1.3
105J_1989_1014	0	2.7	3.23	28	5	5.0	9	4.3	<20	0.8	38	31.62	<1	279	0.54	0.66	1.7
105J_1989_1015	0	1.3	1.20	62	7	6.4	8	10.5	49	3.2	22	19.25	<1	371	1.57	1.31	2.2
105J_1989_1016	0	0.2	0.40	<5	<2	0.9	<5	2.5	<20	<0.5	11	8.82	<1	86	0.26	0.20	0.3
105J_1989_1017	0	0.9	1.08	56	6	5.7	7	9.9	47	4.0	24	19.63	1	535	1.84	1.50	2.3
105J_1989_1019	0	1.7	2.03	19	6	5.9	7	24.3	45	1.7	30	24.08	<1	182	0.94	1.10	1.3
105J_1989_1020	0	0.5	0.85	60	4	4.2	5	13.6	55	2.8	27	25.18	1	385	1.10	0.97	1.4
105J_1989_1022	0	1.8	2.44	56	5	6.1	7	9.1	68	4.8	19	20.35	<1	510	1.39	1.41	1.9
105J_1989_1023	0	0.6	1.19	<5	8	10.4	6	3.4	<20	<0.5	31	30.77	<1	38	4.59	5.26	4.4
105J_1989_1024	0	1.4	1.90	65	8	7.5	10	13.3	57	6.4	32	29.84	<1	405	1.99	1.72	2.2
105J_1989_1025	1	0.4	0.68	49	4	4.0	6	7.8	43	3.2	15	13.76	<1	589	1.22	1.13	1.6
105J_1989_1026	2	0.5	0.71	53	5	4.3	6	8.4	62	3.9	16	14.65	<1	566	1.17	1.10	1.6
105J_1989_1027	0	1.0	1.39	78	7	7.9	10	10.6	69	5.1	32	27.46	1	601	1.90	1.79	2.4
105J_1989_1028	0	11.6	13.55	58	11	15.3	18	11.2	61	6.8	37	37.57	1	504	2.25	2.18	2.9
105J_1989_1029	0	1.8	1.62	70	8	9.6	12	11.2	60	4.4	39	33.96	<1	565	2.19	1.97	2.4
105J_1989_1030	0	0.5	0.87	62	6	7.4	10	12.8	56	5.2	19	16.96	<1	417	1.96	1.66	2.4
105J_1989_1031	0	10.0	14.47	43	6	6.3	6	7.1	26	2.5	182	170.83	<1	188	2.01	1.64	1.8
105J_1989_1032	0	1.6	1.74	84	7	8.6	9	10.8	46	3.5	21	18.92	1	535	3.22	3.08	3.8
105J_1989_1033	0	0.5	0.87	69	5	6.3	7	10.7	53	3.5	23	18.84	<1	535	1.70	1.48	2.1
105J_1989_1034	0	0.8	1.11	87	6	4.9	6	10.1	66	3.6	15	14.05	<1	774	1.31	1.28	1.8
105J_1989_1035	0	1.3	1.28	39	3	3.3	<5	8.4	45	3.6	19	16.27	<1	453	0.95	0.80	1.0
105J_1989_1036	0	1.4	1.43	62	6	7.0	7	9.6	56	4.2	38	31.38	<1	464	1.70	1.52	1.9

Unique ID	Rep Stat	Ga ICP-MS ppm 0.2	Hf INAA ppm 1	Hg CV-AAS ppb 10	Hg ICP-MS ppb 5	K ICP-MS % 0.01	La ICP-MS ppm 0.5	La INAA ppm 2	LOI GRAV pct 1.0	Lu INAA ppm 0.2	Mg ICP-MS % 0.01	Mn AAS ppm 5	Mn ICP-MS ppm 1	Mo AAS ppm 2	Mo ICP-MS ppm 0.01	Mo INAA ppm 1
105J_1989_1002	1	7.1	11	43	33	0.12	28.0	32	7.3	<0.2	0.76	475	566	<2	0.36	<1
105J_1989_1003	2	6.7	13	44	30	0.12	28.6	40	5.9	<0.2	0.77	442	545	<2	0.33	<1
105J_1989_1004	0	5.7	7	153	143	0.15	29.5	33	9.5	<0.2	0.47	710	912	<2	0.63	<1
105J_1989_1005	0	3.4	8	38	37	0.07	15.1	34	3.6	<0.2	0.32	139	152	<2	0.39	<1
105J_1989_1006	0	4.6	7	61	44	0.10	20.9	33	11.6	<0.2	0.34	172	180	<2	0.72	<1
105J_1989_1007	0	3.5	9	48	35	0.09	21.7	36	6.3	<0.2	0.27	283	292	<2	0.62	<1
105J_1989_1008	0	5.2	3	69	51	0.10	25.1	32	15.8	<0.2	0.27	209	219	<2	0.83	<1
105J_1989_1009	0	3.5	8	40	18	0.11	31.3	43	5.9	<0.2	0.24	280	286	<2	0.64	<1
105J_1989_1010	0	4.0	8	55	58	0.06	18.3	30	9.0	<0.2	0.28	548	515	<2	0.93	<1
105J_1989_1011	0	4.8	7	48	29	0.08	24.5	36	9.8	<0.2	0.31	295	308	<2	0.63	<1
105J_1989_1012	0	0.6	1	77	67	0.02	2.0	4	75.2	<0.2	0.30	144	142	7	5.47	5
105J_1989_1013	0	2.4	5	56	63	0.11	18.7	24	24.1	<0.2	0.30	139	119	<2	0.52	<1
105J_1989_1014	0	1.1	3	38	19	0.04	3.0	14	28.4	<0.2	0.24	1508	1291	<2	1.12	<1
105J_1989_1015	0	2.4	6	81	65	0.10	15.4	30	11.1	<0.2	0.31	224	218	<2	0.96	<1
105J_1989_1016	0	0.6	<1	73	53	0.05	<0.5	<2	88.8	<0.2	0.40	21	19	6	4.43	5
105J_1989_1017	0	1.8	5	109	94	0.09	9.3	26	13.6	<0.2	0.30	356	336	<2	1.38	1
105J_1989_1019	0	1.3	1	81	71	0.04	3.1	8	60.6	<0.2	0.71	982	937	5	4.09	4
105J_1989_1020	0	1.9	5	100	80	0.06	12.2	27	16.1	<0.2	0.41	272	262	<2	0.99	<1
105J_1989_1022	0	1.6	5	85	76	0.07	13.0	28	8.3	<0.2	0.35	395	428	2	2.95	2
105J_1989_1023	0	0.5	<1	85	84	0.02	2.8	3	77.6	<0.2	0.23	1534	2760	9	7.56	7
105J_1989_1024	0	3.0	5	96	95	0.08	15.7	32	16.1	<0.2	0.45	411	384	<2	0.42	<1
105J_1989_1025	1	1.5	4	109	88	0.07	9.0	23	4.5	<0.2	0.23	192	218	<2	0.76	<1
105J_1989_1026	2	1.7	5	111	104	0.08	10.0	27	4.7	<0.2	0.24	108	131	<2	0.61	<1
105J_1989_1027	0	2.1	5	85	77	0.08	13.7	36	5.4	<0.2	0.60	334	325	6	4.53	5
105J_1989_1028	0	1.9	4	161	156	0.12	13.0	29	13.2	<0.2	0.29	1872	1756	11	10.60	12
105J_1989_1029	0	2.1	4	105	96	0.09	12.6	32	7.6	<0.2	0.47	404	419	6	4.64	4
105J_1989_1030	0	2.8	3	85	67	0.07	11.3	30	19.8	<0.2	0.51	1482	1274	<2	0.79	<1
105J_1989_1031	0	1.2	2	121	116	0.03	27.7	30	59.9	<0.2	0.18	789	686	2	1.71	1
105J_1989_1032	0	2.3	7	107	91	0.09	16.1	38	9.0	<0.2	0.28	1399	1539	<2	1.35	<1
105J_1989_1033	0	2.2	7	117	110	0.07	14.1	31	8.5	<0.2	0.27	309	315	<2	0.93	<1
105J_1989_1034	0	1.7	6	88	88	0.07	12.8	39	7.0	<0.2	0.25	309	329	<2	1.19	<1
105J_1989_1035	0	1.4	4	115	98	0.06	7.6	20	20.5	<0.2	0.20	124	113	<2	0.49	<1
105J_1989_1036	0	1.5	6	86	83	0.08	13.5	32	6.4	<0.2	0.36	142	152	5	4.77	5

Unique ID	Rep Stat	Na ICP-MS % 0.001	Na INAA pct 0.02	Ni AAS ppm 2	Ni ICP-MS ppm 0.1	P ICP-MS % 0.001	Pb AAS ppm 2	Pb ICP-MS ppm 0.01	Rb INAA ppm 5	S ICP-MS % 0.01	Sb HY-AAS ppm 0.2	Sb ICP-MS ppm 0.02	Sb INAA ppm 0.1	Sc ICP-MS ppm 0.1	Sc INAA ppm 0.2	Se ICP-MS ppm 0.1
105J_1989_1002	1	0.049	1.30	7	4.1	0.057	13	10.44	110	0.03	0.4	0.26	0.8	8.0	18.0	0.2
105J_1989_1003	2	0.048	1.40	3	3.9	0.060	14	10.11	130	0.02	0.4	0.23	0.8	7.7	21.6	0.1
105J_1989_1004	0	0.029	1.10	4	4.8	0.066	17	14.83	140	0.06	1.0	0.84	2.2	8.1	17.0	0.6
105J_1989_1005	0	0.036	1.30	8	8.4	0.082	11	8.35	100	0.01	0.4	0.35	1.0	2.7	11.0	0.2
105J_1989_1006	0	0.028	1.20	8	8.7	0.071	12	10.62	95	0.05	0.3	0.42	0.9	3.7	11.0	0.8
105J_1989_1007	0	0.018	1.30	9	8.5	0.065	13	13.03	130	0.02	0.3	0.39	1.0	2.6	10.0	0.5
105J_1989_1008	0	0.029	1.30	7	7.5	0.080	21	20.00	130	0.05	0.3	0.29	0.7	2.7	13.0	0.5
105J_1989_1009	0	0.018	1.40	9	8.9	0.061	22	19.21	160	<0.01	0.3	0.38	1.1	2.7	10.0	0.1
105J_1989_1010	0	0.023	1.50	11	10.3	0.067	11	8.15	90	0.01	0.2	0.31	0.8	2.5	10.0	0.3
105J_1989_1011	0	0.026	1.60	8	6.3	0.060	12	11.52	120	0.02	0.2	0.19	0.6	2.6	13.0	0.2
105J_1989_1012	0	0.027	0.28	17	18.1	0.089	6	2.20	10	1.01	0.3	0.92	0.9	0.5	1.2	3.8
105J_1989_1013	0	0.017	0.75	12	12.3	0.081	6	5.03	86	0.22	0.2	0.51	1.1	1.8	6.5	1.3
105J_1989_1014	0	0.047	1.60	28	24.9	0.048	4	2.48	47	0.23	0.3	0.74	1.0	0.6	4.1	6.8
105J_1989_1015	0	0.014	0.75	19	21.4	0.099	11	7.90	90	0.09	0.9	0.92	1.7	1.9	8.4	0.9
105J_1989_1016	0	0.009	0.03	5	3.6	0.147	5	2.53	<5	0.85	0.5	1.47	1.5	0.3	0.3	5.7
105J_1989_1017	0	0.007	0.43	20	20.1	0.147	12	8.28	82	0.09	0.9	1.20	1.9	1.7	8.2	1.6
105J_1989_1019	0	0.009	0.28	73	66.8	0.098	10	5.08	24	0.73	0.4	0.93	1.0	0.9	4.2	5.1
105J_1989_1020	0	0.022	0.65	20	20.0	0.107	8	7.36	50	0.23	0.6	0.87	1.4	2.2	7.4	1.3
105J_1989_1022	0	0.008	0.41	29	30.4	0.128	14	11.78	82	0.05	1.6	1.99	3.2	1.7	7.8	1.6
105J_1989_1023	0	0.005	0.04	18	20.3	0.133	9	4.38	6	1.44	1.4	2.07	1.6	0.6	0.7	3.1
105J_1989_1024	0	0.010	0.71	21	22.1	0.088	22	22.11	110	0.07	0.6	0.79	1.6	2.6	8.6	1.4
105J_1989_1025	1	0.005	0.34	14	14.0	0.139	8	6.80	76	0.01	0.5	0.66	1.4	1.5	6.0	0.7
105J_1989_1026	2	0.005	0.38	15	13.9	0.137	10	7.72	85	0.02	0.4	0.66	1.5	1.7	6.9	0.8
105J_1989_1027	0	0.006	0.42	30	29.0	0.133	20	15.72	100	0.04	2.1	2.26	3.8	2.2	9.1	1.1
105J_1989_1028	0	0.008	0.43	94	87.7	0.145	19	17.31	93	0.08	2.9	3.47	5.9	2.1	9.3	3.8
105J_1989_1029	0	0.006	0.39	36	35.7	0.119	22	19.41	99	0.07	2.4	2.43	3.6	2.6	8.5	1.5
105J_1989_1030	0	0.015	1.00	20	19.9	0.090	12	10.83	100	0.11	0.4	0.57	1.0	1.8	10.0	1.6
105J_1989_1031	0	0.007	0.30	40	36.2	0.144	16	13.59	25	0.83	0.4	0.70	0.8	0.8	3.9	1.8
105J_1989_1032	0	0.007	0.51	20	22.6	0.151	15	11.85	73	0.01	1.0	0.97	1.6	2.2	7.6	0.9
105J_1989_1033	0	0.006	0.53	16	17.2	0.114	15	10.87	89	<0.01	1.0	0.98	1.7	2.0	7.8	0.9
105J_1989_1034	0	0.004	0.38	19	19.7	0.218	12	10.41	82	0.02	0.9	1.04	1.8	1.5	7.3	0.5
105J_1989_1035	0	0.006	0.33	13	12.7	0.096	11	7.99	81	0.19	0.2	0.41	0.8	1.3	5.7	1.2
105J_1989_1036	0	0.005	0.47	32	38.3	0.100	13	12.59	100	0.03	2.5	2.54	4.2	1.9	7.6	1.3

Unique ID	Rep Stat	Sm INAA	Sn AAS	Sr ICP-MS	Ta INAA	Tb INAA	Te ICP-MS	Th ICP-MS	Th INAA	Ti ICP-MS	Tl ICP-MS	U ICP-MS	U INAA	U NADNC	V AAS	V ICP-MS
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.5	0.5	0.5	0.02	0.1	0.2	0.001	0.02	0.1	0.2	0.5	5	2
105J_1989_1002	1	6.6	3	94.0	1.1	1.2	<0.02	7.8	14.0	0.058	0.08	2.2	4.9	4.8	44	51
105J_1989_1003	2	7.7	5	89.7	1.3	1.3	<0.02	8.1	16.0	0.061	0.07	1.9	5.0	4.7	42	51
105J_1989_1004	0	7.5	3	42.7	1.4	1.3	<0.02	7.1	15.0	0.023	0.17	3.2	5.6	6.2	39	44
105J_1989_1005	0	5.6	3	43.9	1.1	0.9	<0.02	4.8	11.0	0.047	0.07	1.5	4.4	3.8	25	27
105J_1989_1006	0	5.7	5	46.4	1.2	0.9	<0.02	3.1	11.0	0.053	0.10	4.7	7.7	8.2	30	30
105J_1989_1007	0	6.3	3	33.5	1.5	0.8	<0.02	5.2	15.0	0.038	0.09	6.3	10.0	10.6	23	25
105J_1989_1008	0	8.3	2	38.4	1.6	1.6	<0.02	2.5	15.0	0.020	0.14	15.8	20.0	22.1	28	29
105J_1989_1009	0	8.9	3	37.5	2.1	1.3	<0.02	7.4	19.0	0.029	0.12	9.8	16.0	15.4	23	21
105J_1989_1010	0	5.2	3	27.7	1.2	0.6	<0.02	1.9	11.0	0.034	0.12	4.1	6.8	7.4	31	31
105J_1989_1011	0	6.3	2	44.0	1.2	0.9	<0.02	2.6	14.0	0.023	0.11	4.1	7.4	7.3	24	28
105J_1989_1012	0	0.4	4	191.7	<0.5	<0.5	0.03	0.3	1.3	0.007	0.03	12.8	12.0	15.1	13	13
105J_1989_1013	0	4.0	4	49.7	0.8	<0.5	<0.02	1.8	9.0	0.035	0.12	8.9	12.0	13.0	17	20
105J_1989_1014	0	1.7	9	128.2	<0.5	<0.5	<0.02	0.2	4.0	0.012	0.03	16.8	20.4	21.5	13	15
105J_1989_1015	0	4.5	4	42.5	0.8	0.7	0.02	3.0	8.7	0.021	0.12	3.1	5.6	5.6	33	30
105J_1989_1016	0	<0.7	8	135.0	<0.5	<0.5	<0.02	<0.1	0.2	0.003	<0.02	31.0	32.4	37.1	11	7
105J_1989_1017	0	4.4	3	71.9	0.8	0.6	0.03	1.9	7.5	0.006	0.10	2.8	5.7	5.5	31	31
105J_1989_1019	0	1.2	13	147.8	<0.5	<0.5	<0.02	0.3	2.5	0.005	0.04	6.3	6.7	8.2	24	20
105J_1989_1020	0	4.9	3	55.1	0.8	0.7	<0.02	2.5	7.6	0.011	0.10	2.0	4.4	4.3	24	25
105J_1989_1022	0	4.7	4	41.4	0.8	0.6	0.02	2.8	7.7	0.007	0.17	1.6	4.5	4.5	26	33
105J_1989_1023	0	0.5	9	108.1	<0.5	<0.5	<0.02	0.4	0.8	0.003	0.04	6.0	5.0	6.3	20	15
105J_1989_1024	0	6.0	4	45.2	1.2	0.8	0.03	4.4	11.0	0.012	0.14	1.3	4.1	3.9	28	27
105J_1989_1025	1	4.1	3	46.0	0.9	0.6	0.02	2.3	7.2	0.005	0.10	1.0	3.4	3.1	23	27
105J_1989_1026	2	4.7	2	45.9	0.9	0.7	0.02	2.5	8.4	0.006	0.12	1.0	4.0	3.3	28	29
105J_1989_1027	0	6.2	5	47.4	1.1	0.8	0.02	3.8	10.0	0.007	0.12	1.6	5.2	4.5	35	37
105J_1989_1028	0	4.9	3	41.5	1.1	0.7	0.06	2.4	8.3	0.007	0.37	2.6	6.0	5.7	37	43
105J_1989_1029	0	5.2	5	40.3	1.1	0.6	0.04	3.7	9.3	0.005	0.15	1.9	4.8	4.9	31	36
105J_1989_1030	0	4.7	5	37.5	1.0	0.6	<0.02	1.8	10.0	0.006	0.09	1.9	3.9	4.0	19	20
105J_1989_1031	0	5.1	5	61.0	<0.5	0.7	0.02	0.6	3.7	0.005	0.11	2.4	3.0	3.4	12	11
105J_1989_1032	0	6.5	2	51.5	0.8	0.9	0.03	4.0	14.0	0.008	0.14	2.3	5.1	5.3	34	41
105J_1989_1033	0	5.0	3	47.6	0.8	0.7	0.02	3.3	9.3	0.007	0.11	1.6	4.5	4.4	30	35
105J_1989_1034	0	6.7	4	61.2	0.9	0.8	0.02	2.9	9.1	0.004	0.11	1.5	4.6	4.3	26	33
105J_1989_1035	0	3.5	2	39.2	0.8	<0.5	<0.02	1.6	6.9	0.002	0.12	1.8	4.2	4.3	19	19
105J_1989_1036	0	6.3	2	33.4	1.4	0.9	0.05	4.2	11.0	0.006	0.18	1.4	5.6	4.8	26	27

Unique ID	Rep Stat	W ICP-MS ppm 0.1	W INAA ppm 1	wt INAA g 0.01	Yb INAA ppm 2	Zn AAS ppm 2	Zn ICP-MS ppm 0.1
105J_1989_1002	1	<0.1	1	17.06	2	79	79.1
105J_1989_1003	2	<0.1	<1	29.73	4	137	69.2
105J_1989_1004	0	<0.1	3	17.34	4	100	89.0
105J_1989_1005	0	0.2	1	17.30	2	87	59.1
105J_1989_1006	0	0.1	1	25.97	3	87	67.8
105J_1989_1007	0	0.2	1	18.39	3	62	60.9
105J_1989_1008	0	0.3	<1	16.99	5	94	64.9
105J_1989_1009	0	0.2	<1	26.51	5	200	59.5
105J_1989_1010	0	0.2	1	11.52	2	97	62.4
105J_1989_1011	0	0.1	1	34.24	3	90	61.0
105J_1989_1012	0	0.1	<1	14.57	<2	84	66.5
105J_1989_1013	0	<0.1	<1	11.75	<2	151	114.1
105J_1989_1014	0	<0.1	<1	21.49	<2	168	105.4
105J_1989_1015	0	0.2	1	21.80	<2	150	133.5
105J_1989_1016	0	<0.1	<1	15.13	<2	274	61.5
105J_1989_1017	0	0.8	<1	35.57	2	153	143.6
105J_1989_1019	0	0.1	<1	16.09	<2	110	81.9
105J_1989_1020	0	0.1	1	27.68	<2	231	97.6
105J_1989_1022	0	0.1	1	40.39	<2	302	294.1
105J_1989_1023	0	0.2	<1	13.24	<2	425	153.0
105J_1989_1024	0	0.2	2	30.95	<2	228	167.9
105J_1989_1025	1	<0.1	<1	21.95	<2	140	106.5
105J_1989_1026	2	<0.1	1	35.46	2	120	110.5
105J_1989_1027	0	0.1	2	33.77	<2	188	185.2
105J_1989_1028	0	0.2	2	28.87	2	1125	976.5
105J_1989_1029	0	1.4	2	13.35	<2	244	202.4
105J_1989_1030	0	<0.1	2	23.48	<2	254	118.0
105J_1989_1031	0	0.2	<1	13.89	<2	870	692.3
105J_1989_1032	0	0.3	2	28.61	<2	194	146.4
105J_1989_1033	0	0.1	1	39.65	<2	163	122.7
105J_1989_1034	0	0.2	2	46.57	<2	233	235.6
105J_1989_1035	0	<0.1	1	21.84	<2	137	140.7
105J_1989_1036	0	<0.1	1	40.31	<2	160	159.2

Unique ID	Rep Stat	Ag AAS	Ag ICP-MS	Al ICP-MS	As HY-AAS	As ICP-MS	As INAA	Au INAA	Au1 INAA	Au1_wt -	B ICP-MS	Ba ICP-MS	Ba INAA	Bi ICP-MS	Br INAA	Ca ICP-MS
		ppm	ppb	%	ppm	ppm	ppm	ppb	ppb	g	ppm	ppm	ppm	ppm	ppm	%
		0.2	2	0.01	1	0.1	0.5	2	2	0.01	1	0.5	50	0.02	0.5	0.01
105J_1989_1037	0	0.3	281	0.60	2	3.9	5.5	3			6	445.7	2200	0.13	2.2	0.78
105J_1989_1039	0	0.5	262	0.62	4	6.4	10.0	7			5	390.9	1700	0.10	8.2	1.60
105J_1989_1040	0	0.3	392	0.67	3	5.2	6.8	7			6	380.9	1300	0.13	8.5	2.04
105J_1989_1042	0	0.5	526	0.56	6	8.9	13.0	6			4	478.5	2000	0.15	6.8	1.21
105J_1989_1044	1	0.7	474	0.71	5	9.7	12.0	3			4	465.8	1600	0.15	6.3	1.43
105J_1989_1045	2	0.4	419	0.70	4	6.4	8.2	3			5	399.7	1600	0.14	5.8	1.31
105J_1989_1046	0	<0.2	188	0.61	4	7.0	8.7	6			3	921.7	3700	0.11	2.8	0.73
105J_1989_1047	0	0.4	194	0.54	3	5.0	7.1	<2			2	600.5	2600	0.09	5.3	0.82
105J_1989_1048	0	0.3	161	0.68	2	2.5	3.6	<2			3	262.6	1500	0.09	4.9	0.67
105J_1989_1049	0	0.4	225	0.71	1	2.6	4.2	4			2	296.6	2000	0.12	2.4	0.56
105J_1989_1050	0	<0.2	221	0.39	1	1.4	2.4	3			3	259.3	780	0.06	12.0	2.30
105J_1989_1051	0	0.2	187	0.40	2	3.9	5.1	4			9	288.9	670	0.10	18.0	3.31
105J_1989_1052	0	0.4	262	1.01	2	5.3	7.0	5			3	336.5	1700	0.19	6.1	0.67
105J_1989_1053	0	0.3	322	0.68	3	4.3	6.6	4			4	409.7	1700	0.14	6.1	1.66
105J_1989_1054	0	0.5	289	0.81	2	5.0	6.5	5			3	281.2	1200	0.16	5.0	0.84
105J_1989_1055	0	<0.2	204	0.86	5	8.5	11.0	5			2	313.5	2000	0.17	5.6	0.77
105J_1989_1056	0	0.6	298	0.75	3	8.4	10.0	<2			4	249.9	1000	0.10	19.0	1.94
105J_1989_1057	0	0.3	315	1.01	6	10.8	13.0	5			5	282.1	2400	0.15	4.8	0.78
105J_1989_1058	0	0.3	297	0.88	17	25.0	35.0	<2			4	469.1	3100	0.17	3.5	0.69
105J_1989_1059	0	0.3	236	0.99	7	11.4	14.0	5			3	415.1	2600	0.14	2.1	0.49
105J_1989_1060	0	0.4	444	1.17	13	21.3	26.0	14	6	18.60	2	411.6	2500	0.24	4.5	0.53
105J_1989_1062	1	0.4	377	1.19	15	23.6	28.0	7			5	623.2	3000	0.21	10.0	0.76
105J_1989_1063	2	0.3	371	1.17	16	28.2	29.0	6			4	736.3	3400	0.23	9.2	0.75
105J_1989_1064	0	0.5	205	0.81	2	2.9	5.0	5			2	337.2	2400	0.14	5.6	0.56
105J_1989_1065	0	0.3	178	0.84	3	5.5	6.8	<2			3	404.0	1700	0.13	6.0	1.16
105J_1989_1066	0	<0.2	326	0.93	5	8.6	11.0	5			5	534.1	1900	0.15	7.7	1.02
105J_1989_1068	0	0.5	336	1.00	6	10.3	11.0	8			4	497.6	2300	0.17	3.0	0.82
105J_1989_1069	0	0.3	164	0.74	3	4.9	6.5	3			3	253.7	1800	0.10	2.4	0.66
105J_1989_1070	0	0.4	191	0.81	3	6.8	10.0	4			3	308.5	2100	0.13	5.6	0.83
105J_1989_1071	0	0.4	190	0.68	3	5.1	7.5	3			4	335.7	1900	0.10	3.1	0.89
105J_1989_1072	0	0.4	568	0.68	5	10.4	13.0	4			5	665.2	1900	0.13	2.6	0.90
105J_1989_1073	0	0.3	187	0.44	4	5.9	7.8	3			3	342.5	1400	0.10	2.8	0.80
105J_1989_1074	0	0.2	240	0.69	5	8.4	10.0	23	6	26.60	5	513.5	2300	0.12	8.7	1.07

Unique ID	Rep Stat	Cd AAS	Cd ICP-MS	Ce INAA	Co AAS	Co ICP-MS	Co INAA	Cr ICP-MS	Cr INAA	Cs INAA	Cu AAS	Cu ICP-MS	Eu INAA	F ISE	Fe AAS	Fe ICP-MS	Fe INAA
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	pct	%	pct
		0.2	0.01	5	2	0.1	5	0.5	20	0.5	2	0.01	1	20	0.02	0.01	0.2
105J_1989_1037	0	0.7	0.71	58	6	5.8	7	10.9	63	4.1	29	26.74	<1	608	0.99	0.84	1.2
105J_1989_1039	0	1.0	1.12	52	6	5.1	8	9.4	60	3.7	23	20.32	<1	515	2.00	1.69	2.4
105J_1989_1040	0	2.5	2.46	42	5	5.0	6	11.3	48	2.8	31	30.67	<1	464	1.32	1.27	1.5
105J_1989_1042	0	0.9	1.12	55	6	5.7	8	9.3	68	5.3	30	28.12	1	695	1.67	1.47	2.2
105J_1989_1044	1	1.8	2.18	42	7	7.9	7	11.4	55	3.6	35	32.46	<1	560	2.51	2.26	2.5
105J_1989_1045	2	1.8	1.84	47	5	5.9	6	11.9	56	3.7	33	30.36	<1	560	1.63	1.44	1.9
105J_1989_1046	0	0.8	0.80	60	6	5.9	5	20.2	49	3.6	22	23.41	<1	544	1.47	1.43	1.7
105J_1989_1047	0	0.5	0.62	39	5	4.4	5	7.6	42	3.6	15	13.23	<1	488	1.59	1.28	1.5
105J_1989_1048	0	0.7	0.61	45	2	4.3	6	9.6	49	3.6	14	12.38	<1	572	1.42	1.08	1.5
105J_1989_1049	0	0.7	0.73	56	4	4.5	<5	10.9	57	4.1	18	18.44	<1	578	1.05	0.92	1.3
105J_1989_1050	0	0.9	0.87	25	<2	2.1	<5	6.3	28	1.8	17	14.97	<1	278	0.63	0.65	0.9
105J_1989_1051	0	1.6	1.56	18	3	3.6	<5	6.8	<20	1.5	32	27.51	<1	153	0.89	1.02	1.2
105J_1989_1052	0	1.0	1.26	62	7	7.7	7	14.6	51	4.5	28	23.88	<1	450	2.29	1.81	2.3
105J_1989_1053	0	1.2	1.43	57	4	4.8	7	9.8	49	3.9	29	25.80	<1	447	1.30	1.14	1.8
105J_1989_1054	0	1.1	1.14	51	9	9.7	11	10.7	51	4.0	30	28.80	<1	458	1.82	1.49	1.9
105J_1989_1055	0	0.9	1.13	73	7	8.4	11	12.9	62	3.6	28	24.99	1	483	2.32	1.94	2.8
105J_1989_1056	0	2.9	2.85	24	7	8.5	9	8.7	26	3.0	39	32.33	<1	179	1.92	1.50	2.0
105J_1989_1057	0	1.2	1.14	62	9	11.6	12	13.6	62	8.5	33	29.80	1	466	1.64	1.27	1.9
105J_1989_1058	0	1.0	1.33	59	6	8.2	10	12.6	63	6.5	33	30.09	<1	518	2.22	2.18	2.8
105J_1989_1059	0	0.6	0.93	67	7	9.7	11	13.7	63	5.7	25	26.16	<1	490	2.04	1.94	2.5
105J_1989_1060	0	2.6	3.24	71	15	22.7	21	16.0	69	7.0	41	44.10	<1	456	3.24	3.10	3.4
105J_1989_1062	1	1.6	1.74	60	8	9.3	9	19.1	58	5.2	48	45.58	<1	645	2.84	2.75	3.5
105J_1989_1063	2	1.4	1.77	62	7	10.0	9	18.8	70	5.8	45	44.60	<1	624	2.88	2.98	3.4
105J_1989_1064	0	0.4	0.71	73	5	7.2	9	12.6	65	4.3	24	26.58	<1	610	1.29	1.15	1.6
105J_1989_1065	0	0.6	1.05	56	5	7.6	8	12.7	47	2.8	22	23.74	<1	455	2.25	1.97	2.5
105J_1989_1066	0	1.5	1.61	52	9	9.9	10	13.7	70	4.4	25	24.19	<1	521	2.56	2.26	2.6
105J_1989_1068	0	1.0	1.05	53	9	10.1	9	15.3	51	3.9	36	34.49	<1	530	2.18	2.13	2.3
105J_1989_1069	0	0.3	0.54	49	7	7.1	8	11.0	43	3.4	20	18.21	<1	540	1.71	1.47	1.7
105J_1989_1070	0	0.4	0.72	63	7	7.8	9	11.9	56	4.0	22	20.96	1	546	2.26	1.92	2.5
105J_1989_1071	0	0.9	1.00	58	5	5.7	8	10.4	58	3.5	24	22.41	1	517	1.53	1.26	1.9
105J_1989_1072	0	2.8	3.20	53	6	8.4	11	11.9	82	4.6	48	47.95	<1	648	2.01	1.84	2.4
105J_1989_1073	0	0.9	0.92	49	3	4.2	5	6.9	67	3.8	17	13.42	<1	474	1.24	1.15	1.7
105J_1989_1074	0	1.5	1.68	61	6	10.0	12	11.1	62	3.3	20	16.04	<1	544	2.37	2.04	2.5

Unique ID	Rep Stat	Ga ICP-MS ppm 0.2	Hf INAA ppm 1	Hg CV-AAS ppb 10	Hg ICP-MS ppb 5	K ICP-MS % 0.01	La ICP-MS ppm 0.5	La INAA ppm 2	LOI GRAV pct 1.0	Lu INAA ppm 0.2	Mg ICP-MS % 0.01	Mn AAS ppm 5	Mn ICP-MS ppm 1	Mo AAS ppm 2	Mo ICP-MS ppm 0.01	Mo INAA ppm 1
105J_1989_1037	0	1.6	6	131	130	0.08	10.3	27	9.3	<0.2	0.26	94	95	<2	0.60	<1
105J_1989_1039	0	1.6	4	144	139	0.08	8.1	25	22.9	<0.2	0.27	972	834	<2	0.67	<1
105J_1989_1040	0	1.6	3	176	166	0.07	6.6	20	38.7	<0.2	0.26	194	179	2	1.43	1
105J_1989_1042	0	1.4	7	224	199	0.09	9.8	27	15.0	<0.2	0.25	311	300	4	3.30	3
105J_1989_1044	1	1.8	4	226	218	0.09	8.7	23	22.7	<0.2	0.32	1291	1188	2	1.98	2
105J_1989_1045	2	1.8	4	238	180	0.10	8.6	22	22.5	<0.2	0.29	326	307	<2	1.55	2
105J_1989_1046	0	1.7	7	123	117	0.08	10.0	27	7.3	<0.2	0.28	335	365	2	2.55	2
105J_1989_1047	0	1.3	5	113	100	0.07	6.8	19	13.8	<0.2	0.21	425	382	<2	0.81	<1
105J_1989_1048	0	1.9	5	78	74	0.08	9.5	22	13.9	<0.2	0.28	177	154	<2	0.27	<1
105J_1989_1049	0	1.9	5	84	86	0.06	11.1	27	11.7	<0.2	0.28	73	74	<2	0.49	<1
105J_1989_1050	0	0.9	2	90	89	0.03	4.3	11	55.8	<0.2	0.18	81	81	<2	0.46	<1
105J_1989_1051	0	0.9	2	90	102	0.03	3.4	9	69.1	<0.2	0.28	1300	1316	2	1.40	<1
105J_1989_1052	0	2.6	3	143	138	0.12	9.9	28	19.4	<0.2	0.37	322	300	<2	0.84	<1
105J_1989_1053	0	1.8	5	139	128	0.08	8.9	24	27.1	<0.2	0.28	436	370	<2	0.83	<1
105J_1989_1054	0	2.0	5	162	163	0.08	9.1	24	20.3	<0.2	0.31	510	456	4	3.01	3
105J_1989_1055	0	2.3	5	137	118	0.08	10.3	32	13.7	<0.2	0.38	725	698	<2	1.24	<1
105J_1989_1056	0	1.5	1	166	143	0.03	4.1	12	57.5	<0.2	0.19	541	452	<2	0.96	<1
105J_1989_1057	0	2.6	3	111	108	0.09	13.6	27	18.9	<0.2	0.42	79	73	2	1.79	2
105J_1989_1058	0	2.2	5	152	146	0.11	16.3	30	8.9	<0.2	0.39	616	702	5	4.58	5
105J_1989_1059	0	2.7	5	92	87	0.11	17.2	31	7.4	<0.2	0.38	478	543	<2	1.63	2
105J_1989_1060	0	3.0	4	116	111	0.09	18.0	32	8.8	<0.2	0.41	1872	2291	2	3.11	3
105J_1989_1062	1	3.1	5	172	173	0.14	17.0	32	10.8	<0.2	0.67	731	823	<2	2.07	1
105J_1989_1063	2	3.2	5	168	171	0.15	17.1	34	9.7	<0.2	0.68	679	807	2	2.33	2
105J_1989_1064	0	2.3	5	100	94	0.09	10.6	31	9.4	<0.2	0.36	125	132	<2	0.53	<1
105J_1989_1065	0	2.3	4	148	154	0.08	8.2	27	15.7	<0.2	0.41	403	410	<2	0.91	<1
105J_1989_1066	0	2.5	4	176	179	0.14	10.0	27	14.5	<0.2	0.41	<5	1644	<2	1.50	1
105J_1989_1068	0	3.0	4	160	170	0.12	13.3	26	11.3	<0.2	0.47	731	834	<2	1.29	<1
105J_1989_1069	0	2.0	5	90	101	0.08	10.4	24	10.4	<0.2	0.33	235	247	<2	0.37	<1
105J_1989_1070	0	2.3	5	115	96	0.08	11.1	32	12.2	<0.2	0.37	568	547	<2	0.69	<1
105J_1989_1071	0	2.0	4	131	113	0.08	9.0	27	14.4	<0.2	0.28	420	363	<2	0.92	<1
105J_1989_1072	0	1.9	5	279	279	0.13	7.4	28	13.4	<0.2	0.22	411	420	4	4.35	5
105J_1989_1073	0	1.1	6	115	114	0.07	5.3	27	10.1	<0.2	0.19	238	243	<2	1.90	<1
105J_1989_1074	0	1.9	5	144	144	0.08	9.1	29	15.5	<0.2	0.28	1794	1678	<2	1.14	1

Unique ID	Rep Stat	Na ICP-MS % 0.001	Na INAA pct 0.02	Ni AAS ppm 2	Ni ICP-MS ppm 0.1	P ICP-MS % 0.001	Pb AAS ppm 2	Pb ICP-MS ppm 0.01	Rb INAA ppm 5	S ICP-MS % 0.01	Sb HY-AAS ppm 0.2	Sb ICP-MS ppm 0.02	Sb INAA ppm 0.1	Sc ICP-MS ppm 0.1	Sc INAA ppm 0.2	Se ICP-MS ppm 0.1
105J_1989_1037	0	0.007	0.33	26	25.3	0.164	14	9.55	81	0.14	1.0	1.00	1.7	2.2	7.3	1.2
105J_1989_1039	0	0.007	0.46	21	18.1	0.141	12	7.34	75	0.22	0.4	0.71	1.3	2.1	7.0	4.4
105J_1989_1040	0	0.009	0.39	21	20.7	0.127	13	9.27	60	0.57	0.6	0.93	1.3	2.2	6.4	5.2
105J_1989_1042	0	0.006	0.36	28	26.1	0.148	11	10.30	93	0.14	1.3	1.51	2.6	2.4	8.5	3.2
105J_1989_1044	1	0.008	0.40	30	29.8	0.134	14	12.68	82	0.18	1.2	1.41	2.1	2.6	7.7	2.3
105J_1989_1045	2	0.009	0.37	28	26.0	0.133	16	12.17	85	0.20	1.1	1.28	2.0	2.5	6.9	2.1
105J_1989_1046	0	0.005	0.35	21	20.7	0.160	12	11.08	74	0.12	1.0	0.97	1.7	1.9	6.5	1.0
105J_1989_1047	0	0.006	0.32	15	13.7	0.107	8	6.35	85	0.17	0.6	0.54	1.1	1.7	5.2	1.6
105J_1989_1048	0	0.009	0.39	14	12.0	0.151	11	5.73	82	0.17	0.3	0.36	0.7	1.6	6.2	1.1
105J_1989_1049	0	0.005	0.39	13	14.3	0.135	9	7.97	87	0.13	0.3	0.48	1.0	1.9	7.6	1.9
105J_1989_1050	0	0.011	0.48	9	8.3	0.092	8	4.89	32	0.53	<0.2	0.44	0.5	1.1	3.3	1.3
105J_1989_1051	0	0.006	0.22	18	17.9	0.084	9	5.01	27	0.96	0.3	0.94	1.0	1.2	3.0	4.4
105J_1989_1052	0	0.013	0.42	21	19.7	0.117	15	10.34	95	0.34	0.6	0.76	1.3	2.6	8.9	1.7
105J_1989_1053	0	0.011	0.53	20	18.0	0.117	10	7.86	74	0.21	0.7	0.98	1.5	2.1	7.9	3.8
105J_1989_1054	0	0.009	0.44	22	21.6	0.109	13	9.90	80	0.22	0.8	0.86	1.5	2.5	8.2	1.4
105J_1989_1055	0	0.007	0.50	24	22.9	0.125	14	11.87	89	0.10	1.3	0.96	1.9	2.2	9.1	1.1
105J_1989_1056	0	0.009	0.41	28	24.6	0.104	10	5.69	42	0.70	0.6	1.01	1.3	1.4	5.2	3.1
105J_1989_1057	0	0.013	0.48	28	24.9	0.094	15	13.59	100	0.37	1.5	1.44	2.5	2.1	9.0	1.4
105J_1989_1058	0	0.006	0.37	33	33.2	0.138	13	11.96	110	0.12	2.9	2.48	5.0	2.2	8.6	1.8
105J_1989_1059	0	0.006	0.41	31	33.5	0.124	11	10.78	100	0.06	2.0	1.66	3.5	2.1	9.2	1.1
105J_1989_1060	0	0.006	0.44	62	73.1	0.126	17	16.20	110	0.05	3.9	3.21	6.5	2.7	10.0	2.0
105J_1989_1062	1	0.018	0.43	30	31.6	0.148	17	14.14	93	0.12	2.2	2.01	3.3	3.1	9.2	2.3
105J_1989_1063	2	0.017	0.41	27	33.7	0.164	14	14.50	98	0.12	2.4	2.14	3.2	3.4	10.0	2.2
105J_1989_1064	0	0.006	0.42	19	19.9	0.146	10	11.31	100	0.13	0.8	0.63	1.4	2.6	9.4	1.1
105J_1989_1065	0	0.013	0.61	20	19.7	0.124	15	13.03	80	0.12	0.6	0.72	1.2	2.9	8.4	1.5
105J_1989_1066	0	0.009	0.43	28	27.8	0.117	19	14.19	93	0.12	1.1	0.85	1.6	3.3	8.6	2.6
105J_1989_1068	0	0.011	0.49	29	28.8	0.126	15	12.50	92	0.11	1.4	1.18	2.0	3.1	8.3	1.6
105J_1989_1069	0	0.007	0.44	17	17.2	0.111	11	8.17	86	0.09	0.5	0.58	1.2	2.6	6.8	0.8
105J_1989_1070	0	0.008	0.53	19	19.3	0.109	11	9.94	96	0.08	0.5	0.65	1.6	2.7	8.9	1.1
105J_1989_1071	0	0.008	0.57	19	19.2	0.112	12	8.08	83	0.09	0.4	0.82	1.5	2.2	8.2	1.3
105J_1989_1072	0	0.007	0.31	38	40.9	0.154	16	15.69	93	0.10	2.4	2.41	4.5	3.4	8.9	4.2
105J_1989_1073	0	0.005	0.32	20	20.4	0.093	14	13.05	77	0.06	1.0	0.74	1.4	2.2	6.8	1.3
105J_1989_1074	0	0.006	0.48	21	20.6	0.148	12	9.95	77	0.10	1.0	1.00	1.7	2.4	8.0	1.6

Unique ID	Rep Stat	Sm INAA	Sn AAS	Sr ICP-MS	Ta INAA	Tb INAA	Te ICP-MS	Th ICP-MS	Th INAA	Ti ICP-MS	Tl ICP-MS	U ICP-MS	U INAA	U NADNC	V AAS	V ICP-MS
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.5	0.5	0.5	0.02	0.1	0.2	0.001	0.02	0.1	0.2	0.5	5	2
105J_1989_1037	0	5.1	1	49.7	0.8	0.9	0.04	2.9	8.4	0.004	0.15	1.6	4.7	4.3	29	30
105J_1989_1039	0	4.2	6	71.2	0.7	0.5	0.02	1.9	7.1	0.004	0.15	1.1	3.5	3.3	28	25
105J_1989_1040	0	3.2	7	82.8	0.7	<0.5	0.03	1.9	6.2	0.003	0.12	3.6	5.4	6.0	28	23
105J_1989_1042	0	5.2	5	53.7	1.0	0.8	0.07	1.9	8.4	0.003	0.19	1.1	4.4	4.1	26	24
105J_1989_1044	1	3.9	5	67.3	0.8	0.5	0.03	2.2	7.3	0.003	0.17	1.7	4.0	4.2	34	33
105J_1989_1045	2	3.8	5	61.1	0.9	0.7	0.03	2.3	7.1	0.003	0.16	1.9	4.2	4.7	31	32
105J_1989_1046	0	5.5	2	51.8	1.2	0.7	0.03	2.7	8.9	0.005	0.13	1.1	4.5	4.2	24	29
105J_1989_1047	0	3.8	4	40.6	1.0	0.6	0.02	2.0	7.3	0.003	0.10	1.1	3.8	3.9	21	22
105J_1989_1048	0	3.9	2	43.9	0.6	0.6	<0.02	2.4	7.2	0.004	0.10	1.2	3.7	3.9	22	22
105J_1989_1049	0	4.6	2	40.9	1.0	0.6	<0.02	3.3	8.4	0.004	0.14	1.7	4.6	4.3	24	28
105J_1989_1050	0	1.8	6	85.2	<0.5	<0.5	0.02	0.8	3.5	0.006	0.06	1.1	2.2	2.5	17	11
105J_1989_1051	0	1.3	11	133.2	<0.5	<0.5	0.02	0.8	2.7	0.005	0.07	4.3	4.5	5.2	18	12
105J_1989_1052	0	4.3	2	48.3	0.8	0.6	0.02	3.3	8.7	0.003	0.14	1.6	4.1	4.5	35	32
105J_1989_1053	0	4.0	5	72.8	0.8	0.7	0.03	1.9	7.5	0.005	0.13	2.1	4.6	4.8	24	22
105J_1989_1054	0	4.2	1	39.3	0.9	0.6	0.03	2.9	8.2	0.003	0.17	2.0	4.6	5.7	28	27
105J_1989_1055	0	5.4	1	55.4	1.0	0.8	0.03	2.6	10.0	0.004	0.10	1.7	4.9	4.8	37	34
105J_1989_1056	0	2.1	5	136.6	<0.5	<0.5	0.03	0.6	3.9	0.004	0.11	3.5	4.6	5.7	31	23
105J_1989_1057	0	4.5	2	89.8	0.9	0.5	0.02	3.3	9.2	0.003	0.16	1.6	4.4	4.9	31	31
105J_1989_1058	0	6.0	2	55.1	1.3	0.9	0.06	3.5	11.0	0.004	0.15	3.8	8.8	7.6	41	45
105J_1989_1059	0	5.5	<1	51.3	1.2	0.9	0.03	3.6	10.0	0.004	0.15	1.3	4.5	4.1	34	36
105J_1989_1060	0	5.9	1	60.8	1.3	1.0	0.04	3.8	11.0	0.004	0.21	3.2	6.8	6.7	37	41
105J_1989_1062	1	5.5	5	69.8	1.1	0.7	0.03	3.6	10.0	0.012	0.18	1.7	5.0	4.9	43	47
105J_1989_1063	2	5.8	5	70.5	1.3	0.8	0.05	4.0	10.0	0.010	0.18	1.7	5.1	4.8	41	47
105J_1989_1064	0	5.6	2	48.1	1.1	0.8	0.03	2.9	10.0	0.003	0.12	1.8	5.0	4.2	31	31
105J_1989_1065	0	4.6	4	63.1	0.9	0.6	0.03	2.3	8.7	0.003	0.08	1.0	3.2	3.4	26	25
105J_1989_1066	0	4.4	3	57.3	1.0	0.7	0.03	2.7	8.5	0.003	0.16	1.1	3.7	4.2	37	40
105J_1989_1068	0	4.6	3	65.2	0.8	0.6	0.03	3.6	8.6	0.005	0.14	1.1	3.6	3.6	34	41
105J_1989_1069	0	4.6	3	55.9	1.0	0.7	<0.02	2.9	8.7	0.004	0.09	0.9	3.4	3.3	23	28
105J_1989_1070	0	5.6	4	62.7	1.1	0.8	0.02	3.0	11.0	0.004	0.10	0.9	3.9	3.6	30	31
105J_1989_1071	0	4.4	2	51.3	0.9	0.6	0.02	2.3	8.5	0.003	0.11	1.6	4.7	4.2	28	32
105J_1989_1072	0	4.4	3	52.9	1.0	0.7	0.06	2.9	9.1	0.003	0.29	3.4	7.7	7.5	83	97
105J_1989_1073	0	4.3	3	37.4	0.9	0.6	0.03	2.0	8.5	0.001	0.15	1.0	4.2	3.9	29	30
105J_1989_1074	0	4.8	4	60.3	0.8	0.5	0.04	2.3	8.1	0.004	0.12	1.3	4.0	3.9	35	33

Unique ID	Rep Stat	W ICP-MS ppm 0.1	W INAA ppm 1	wt INAA g 0.01	Yb INAA ppm 2	Zn AAS ppm 2	Zn ICP-MS ppm 0.1
105J_1989_1037	0	<0.1	<1	39.52	<2	112	112.8
105J_1989_1039	0	<0.1	<1	29.48	<2	114	107.8
105J_1989_1040	0	<0.1	<1	16.88	<2	137	135.5
105J_1989_1042	0	<0.1	1	33.67	2	121	119.8
105J_1989_1044	1	<0.1	<1	12.80	<2	190	187.3
105J_1989_1045	2	<0.1	<1	15.62	<2	173	171.8
105J_1989_1046	0	0.1	2	41.65	2	110	112.5
105J_1989_1047	0	0.3	<1	14.57	<2	107	101.8
105J_1989_1048	0	0.3	<1	12.52	<2	91	91.8
105J_1989_1049	0	0.1	1	36.24	<2	79	83.5
105J_1989_1050	0	<0.1	<1	14.11	<2	65	65.2
105J_1989_1051	0	<0.1	<1	15.40	<2	127	118.5
105J_1989_1052	0	<0.1	<1	16.41	<2	169	149.5
105J_1989_1053	0	<0.1	2	27.16	<2	105	96.1
105J_1989_1054	0	<0.1	<1	11.64	2	123	117.9
105J_1989_1055	0	<0.1	<1	32.71	<2	168	153.6
105J_1989_1056	0	<0.1	<1	16.31	<2	193	177.4
105J_1989_1057	0	<0.1	2	24.85	<2	169	153.4
105J_1989_1058	0	<0.1	<1	36.48	2	196	186.7
105J_1989_1059	0	<0.1	1	40.81	<2	151	159.5
105J_1989_1060	0	<0.1	1	23.04	2	367	431.8
105J_1989_1062	1	0.1	<1	16.36	2	194	190.1
105J_1989_1063	2	<0.1	1	25.55	<2	181	192.5
105J_1989_1064	0	<0.1	<1	34.85	2	118	123.8
105J_1989_1065	0	<0.1	<1	28.41	<2	148	157.0
105J_1989_1066	0	<0.1	1	19.99	<2	222	213.2
105J_1989_1068	0	<0.1	<1	25.50	<2	124	166.5
105J_1989_1069	0	<0.1	<1	37.88	<2	95	92.1
105J_1989_1070	0	0.3	<1	33.73	<2	119	113.8
105J_1989_1071	0	<0.1	1	34.29	<2	113	108.1
105J_1989_1072	0	<0.1	1	26.47	2	277	274.4
105J_1989_1073	0	<0.1	<1	35.76	<2	116	119.1
105J_1989_1074	0	0.2	1	33.23	<2	156	149.8

Unique ID	Rep Stat	Ag AAS	Ag ICP-MS	Al ICP-MS	As HY-AAS	As ICP-MS	As INAA	Au INAA	Au1 INAA	Au1_wt -	B ICP-MS	Ba ICP-MS	Ba INAA	Bi ICP-MS	Br INAA	Ca ICP-MS
		ppm	ppb	%	ppm	ppm	ppm	ppb	ppb	g	ppm	ppm	ppm	ppm	ppm	%
		0.2	2	0.01	1	0.1	0.5	2	2	0.01	1	0.5	50	0.02	0.5	0.01
105J_1989_1075	0	<0.2	124	0.54	1	1.7	2.7	3			4	341.7	1600	0.06	3.8	0.72
105J_1989_1076	0	0.6	266	0.55	6	9.1	12.0	4			4	659.3	2300	0.12	7.4	1.16
105J_1989_1077	0	0.4	429	0.92	6	10.9	13.0	6			6	787.7	2300	0.17	13.0	1.42
105J_1989_1078	0	0.3	261	0.47	4	5.2	7.9	<2			3	511.2	1800	0.10	4.1	1.53
105J_1989_1079	0	0.2	109	0.90	7	11.1	13.0	4			4	378.4	1700	0.19	1.9	0.61
105J_1989_1080	0	<0.2	276	0.83	5	9.2	11.0	6			3	432.4	1600	0.19	7.7	1.23
105J_1989_1082	1	0.7	471	0.63	11	20.1	22.0	4			7	468.3	1000	0.12	19.0	2.17
105J_1989_1083	2	0.9	492	0.77	9	14.7	17.0	<2			9	442.0	1100	0.14	19.0	1.97
105J_1989_1084	0	0.3	178	0.65	12	24.5	28.0	3			3	389.0	1600	0.18	4.0	1.07
105J_1989_1085	0	<0.2	46	0.29	2	1.1	2.8	<2			7	185.3	880	0.03	9.2	1.60
105J_1989_1086	0	0.3	151	1.05	8	13.8	18.0	10			3	309.6	1800	0.14	2.0	0.35
105J_1989_1087	0	0.9	554	0.76	7	11.0	13.0	5			5	823.7	2700	0.16	3.9	0.75
105J_1989_1089	0	0.3	220	0.78	4	4.4	6.4	6			5	589.6	2900	0.15	2.2	0.41
105J_1989_1090	0	0.4	262	0.77	5	8.1	11.0	8			6	579.2	2300	0.22	3.9	0.94
105J_1989_1091	0	0.6	156	0.65	2	2.8	4.1	<2			5	1665.2	4500	0.09	7.8	0.92
105J_1989_1092	0	<0.2	159	0.67	3	4.9	6.6	6			3	292.4	1600	0.10	8.1	0.77
105J_1989_1093	0	0.3	249	0.66	3	5.1	7.1	4			5	365.9	1800	0.10	8.8	1.21
105J_1989_1094	0	0.5	348	0.94	1	1.7	3.4	4			6	351.7	1600	0.08	8.8	1.33
105J_1989_1095	0	1.7	1046	0.71	8	11.0	15.0	10			4	978.9	3600	0.13	6.4	0.74
105J_1989_1096	0	<0.2	139	0.63	2	2.5	4.3	4			3	183.6	1200	0.11	6.5	1.17
105J_1989_1097	0	0.5	303	0.68	5	7.6	10.0	6			3	222.7	2000	0.33	1.7	0.63
105J_1989_1098	0	0.3	414	0.88	3	7.9	10.0	6			3	814.2	3100	0.22	2.1	0.45
105J_1989_1099	0	1.5	1554	0.90	16	20.3	27.0	7			6	1896.1	13300	0.22	2.2	0.78
105J_1989_1100	0	1.0	1003	0.77	14	17.3	22.0	12			5	987.8	5030	0.28	3.0	0.60
105J_1989_1102	1	1.9	1219	0.59	13	14.5	19.0	11			5	1007.7	4100	0.20	1.5	0.53
105J_1989_1103	2	1.9	1243	0.61	12	15.4	20.0	10			6	832.0	3900	0.21	1.3	0.56
105J_1989_1104	0	1.4	1053	0.86	8	12.8	19.0	11			6	792.6	3100	0.19	5.7	1.06
105J_1989_1105	0	0.9	566	0.88	13	18.6	24.0	13			5	1217.1	4900	0.26	1.7	0.46
105J_1989_1106	0	0.5	338	0.63	3	3.1	5.8	5			7	419.4	1900	0.11	7.5	0.58
105J_1989_1107	0	1.0	771	0.88	6	10.8	15.0	7			4	952.5	3600	0.16	4.9	0.39
105J_1989_1108	0	0.7	514	1.05	50	55.0	59.6	7			4	1007.8	2400	0.13	18.0	0.77
105J_1989_1109	0	1.2	1202	1.23	19	26.6	43.0	9			3	678.9	3400	0.19	7.6	0.82
105J_1989_1110	0	0.9	1063	0.69	14	16.6	21.0	9			4	1633.2	10700	0.19	4.5	0.43

Unique ID	Rep Stat	Cd AAS	Cd ICP-MS	Ce INAA	Co AAS	Co ICP-MS	Co INAA	Cr ICP-MS	Cr INAA	Cs INAA	Cu AAS	Cu ICP-MS	Eu INAA	F ISE	Fe AAS	Fe ICP-MS	Fe INAA
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	pct	%	pct
		0.2	0.01	5	2	0.1	5	0.5	20	0.5	2	0.01	1	20	0.02	0.01	0.2
105J_1989_1075	0	0.4	0.53	49	2	2.4	<5	8.0	43	2.9	11	8.27	<1	562	0.92	0.72	1.2
105J_1989_1076	0	3.1	3.42	64	4	5.7	6	9.1	66	6.0	22	16.82	<1	413	1.67	1.63	2.3
105J_1989_1077	0	2.0	2.03	46	9	10.6	11	15.6	61	4.4	33	25.02	<1	472	2.80	2.65	3.0
105J_1989_1078	0	1.2	1.55	48	4	4.8	6	8.3	52	2.7	30	22.66	<1	474	1.05	1.04	1.6
105J_1989_1079	0	0.5	0.66	92	8	8.3	9	14.3	64	4.0	20	15.76	1	436	1.99	1.92	2.5
105J_1989_1080	0	1.2	1.28	37	3	3.9	<5	13.2	42	3.1	37	28.88	<1	347	1.82	1.49	1.9
105J_1989_1082	1	2.5	2.88	29	3	3.3	<5	7.4	23	2.5	34	26.11	<1	212	1.16	1.15	1.6
105J_1989_1083	2	2.4	2.40	38	2	3.4	<5	8.9	26	2.7	34	26.84	<1	214	1.18	1.09	1.6
105J_1989_1084	0	0.8	1.09	54	4	3.8	6	10.4	44	4.1	18	14.90	<1	418	1.48	1.21	1.6
105J_1989_1085	0	0.8	0.82	26	<2	1.8	7	2.5	<20	1.0	22	17.10	<1	271	0.46	0.49	1.7
105J_1989_1086	0	0.4	0.61	81	6	8.8	10	11.7	57	6.5	19	14.71	<1	371	2.80	2.58	3.6
105J_1989_1087	0	1.1	1.36	58	6	8.0	9	14.4	83	6.0	33	28.27	<1	418	2.35	2.22	2.6
105J_1989_1089	0	0.9	1.06	55	3	4.0	5	13.1	65	3.9	32	28.23	<1	474	1.39	1.19	1.9
105J_1989_1090	0	1.4	1.66	49	5	6.4	9	11.1	46	3.0	28	22.59	<1	434	1.64	1.42	2.0
105J_1989_1091	0	0.7	0.70	48	3	3.3	<5	8.9	44	3.3	22	17.42	<1	357	1.45	1.11	1.8
105J_1989_1092	0	0.6	1.04	35	5	5.1	8	8.9	40	2.9	27	20.29	<1	323	2.46	1.97	2.4
105J_1989_1093	0	1.3	1.73	33	7	6.4	6	10.3	34	2.7	31	24.77	<1	374	1.71	1.42	1.9
105J_1989_1094	0	2.0	2.08	36	5	5.9	7	14.0	39	14.0	47	36.70	1	363	1.66	1.37	1.8
105J_1989_1095	0	4.7	4.52	54	15	14.9	16	12.9	50	3.5	55	41.94	<1	622	3.64	3.18	3.8
105J_1989_1096	0	0.8	0.70	68	7	6.4	9	7.9	42	3.1	21	15.59	<1	359	1.44	1.22	1.8
105J_1989_1097	0	1.2	1.39	74	6	8.4	9	13.7	72	3.8	39	34.15	<1	515	2.16	2.01	2.6
105J_1989_1098	0	1.3	1.55	69	7	10.8	12	16.3	70	3.4	45	36.37	1	567	2.45	2.04	2.5
105J_1989_1099	0	10.2	12.15	46	3	5.8	6	33.1	94	4.4	82	72.33	1	744	2.12	2.11	2.6
105J_1989_1100	0	9.1	9.39	58	7	8.3	10	21.3	100	4.8	74	61.03	<1	626	2.18	2.11	2.7
105J_1989_1102	1	9.0	9.08	56	3	3.9	<5	26.1	110	4.7	80	70.86	1	570	1.27	1.22	1.7
105J_1989_1103	2	7.9	9.56	45	4	4.3	<5	27.3	110	4.2	75	71.79	<1	579	1.21	1.27	1.4
105J_1989_1104	0	8.9	9.96	37	8	8.3	8	18.8	69	4.9	68	59.00	<1	502	2.30	2.06	2.4
105J_1989_1105	0	2.5	2.52	59	11	13.3	16	15.3	85	5.1	64	56.70	<1	611	2.92	2.73	3.2
105J_1989_1106	0	1.8	1.96	32	<2	1.4	<5	8.4	35	3.0	41	35.35	<1	249	0.74	0.53	1.1
105J_1989_1107	0	1.7	1.70	43	10	10.0	14	14.2	72	4.9	42	33.39	<1	341	2.15	1.83	2.6
105J_1989_1108	0	6.6	7.37	35	13	16.8	17	12.8	39	3.6	42	35.07	<1	269	7.34	6.99	8.0
105J_1989_1109	0	3.6	4.01	31	6	5.7	5	17.4	78	5.3	79	78.29	1	332	3.70	3.28	3.6
105J_1989_1110	0	4.9	5.43	60	6	9.2	10	14.8	96	5.7	63	63.25	1	537	2.40	2.33	2.9

Unique ID	Rep Stat	Ga ICP-MS ppm 0.2	Hf INAA ppm 1	Hg CV-AAS ppb 10	Hg ICP-MS ppb 5	K ICP-MS % 0.01	La ICP-MS ppm 0.5	La INAA ppm 2	LOI GRAV pct 1.0	Lu INAA ppm 0.2	Mg ICP-MS % 0.01	Mn AAS ppm 5	Mn ICP-MS ppm 1	Mo AAS ppm 2	Mo ICP-MS ppm 0.01	Mo INAA ppm 1
105J_1989_1075	0	1.5	6	86	84	0.07	8.4	24	11.4	<0.2	0.19	139	121	<2	0.31	<1
105J_1989_1076	0	1.4	8	176	163	0.10	8.3	31	12.1	<0.2	0.31	837	837	<2	1.68	<1
105J_1989_1077	0	2.6	3	201	174	0.13	9.2	22	24.9	<0.2	0.36	6682	4665	2	1.84	1
105J_1989_1078	0	1.2	6	140	115	0.07	6.3	23	16.9	<0.2	0.28	348	304	2	1.93	2
105J_1989_1079	0	2.7	7	74	60	0.15	13.7	42	6.0	<0.2	0.33	530	613	<2	0.85	<1
105J_1989_1080	0	2.3	4	172	148	0.08	9.2	20	27.2	<0.2	0.22	579	511	<2	0.77	<1
105J_1989_1082	1	1.5	2	185	151	0.06	11.2	18	51.7	<0.2	0.23	670	590	<2	0.85	<1
105J_1989_1083	2	1.8	3	185	162	0.06	11.8	20	46.2	<0.2	0.25	320	280	<2	0.80	<1
105J_1989_1084	0	2.0	4	94	89	0.07	10.2	24	19.2	<0.2	0.26	142	132	<2	0.67	<1
105J_1989_1085	0	0.9	2	57	43	0.03	2.5	13	27.6	<0.2	0.12	69	63	<2	0.32	1
105J_1989_1086	0	3.3	11	78	85	0.08	18.1	38	5.5	<0.2	0.36	294	370	<2	1.22	<1
105J_1989_1087	0	2.2	5	228	298	0.14	8.4	27	11.0	<0.2	0.28	527	612	<2	2.56	2
105J_1989_1089	0	2.3	4	116	139	0.10	9.4	25	8.3	<0.2	0.28	92	98	<2	1.60	1
105J_1989_1090	0	1.9	4	228	287	0.08	8.4	23	20.1	<0.2	0.28	202	188	<2	0.51	<1
105J_1989_1091	0	1.9	4	85	96	0.08	7.1	22	18.5	<0.2	0.27	146	134	<2	0.21	<1
105J_1989_1092	0	1.7	3	160	217	0.08	5.3	18	25.4	<0.2	0.22	685	612	<2	0.62	<1
105J_1989_1093	0	1.7	3	122	137	0.07	6.5	17	30.0	<0.2	0.30	660	586	<2	0.97	<1
105J_1989_1094	0	2.1	2	226	271	0.08	9.6	19	29.9	<0.2	0.32	133	119	<2	0.34	<1
105J_1989_1095	0	2.0	4	371	388	0.11	11.5	26	13.5	<0.2	0.30	1794	1463	2	3.06	3
105J_1989_1096	0	1.6	5	61	60	0.05	6.7	33	19.0	<0.2	0.23	230	272	<2	0.17	<1
105J_1989_1097	0	2.0	7	104	104	0.08	17.0	36	7.8	<0.2	0.26	287	308	<2	1.70	<1
105J_1989_1098	0	2.6	5	139	152	0.08	13.6	31	12.4	<0.2	0.33	283	282	<2	1.28	<1
105J_1989_1099	0	3.1	3	311	399	0.14	12.2	26	8.3	<0.2	0.17	114	141	13	15.67	18
105J_1989_1100	0	2.4	4	279	329	0.10	11.1	29	8.7	<0.2	0.23	610	715	7	8.66	10
105J_1989_1102	1	2.3	3	394	487	0.11	10.8	27	6.0	<0.2	0.14	283	325	5	6.54	8
105J_1989_1103	2	2.3	3	405	489	0.11	10.5	23	6.8	<0.2	0.14	304	360	6	6.82	7
105J_1989_1104	0	2.6	3	316	370	0.11	7.6	21	20.6	<0.2	0.25	1768	1576	13	14.68	17
105J_1989_1105	0	2.5	5	224	284	0.16	10.5	27	5.9	<0.2	0.41	1089	1207	5	4.21	5
105J_1989_1106	0	1.8	3	173	158	0.05	5.3	17	38.0	<0.2	0.17	77	64	<2	1.86	2
105J_1989_1107	0	2.4	3	224	262	0.10	7.6	23	22.5	<0.2	0.22	709	627	3	3.13	3
105J_1989_1108	0	2.8	3	316	371	0.06	6.1	17	30.0	<0.2	0.27	14300	>10000	19	20.44	20
105J_1989_1109	0	2.8	2	449	495	0.09	7.3	18	34.4	<0.2	0.15	126	91	31	32.14	31
105J_1989_1110	0	1.8	6	286	340	0.10	6.2	30	8.2	<0.2	0.16	384	405	9	9.77	11

Unique ID	Rep Stat	Na ICP-MS % 0.001	Na INAA pct 0.02	Ni AAS ppm 2	Ni ICP-MS ppm 0.1	P ICP-MS % 0.001	Pb AAS ppm 2	Pb ICP-MS ppm 0.01	Rb INAA ppm 5	S ICP-MS % 0.01	Sb HY-AAS ppm 0.2	Sb ICP-MS ppm 0.02	Sb INAA ppm 0.1	Sc ICP-MS ppm 0.1	Sc INAA ppm 0.2	Se ICP-MS ppm 0.1
105J_1989_1075	0	0.008	0.48	8	9.0	0.141	8	5.75	71	0.10	0.2	0.28	0.7	1.6	6.3	1.1
105J_1989_1076	0	0.008	0.42	23	24.8	0.121	17	14.22	87	0.13	0.9	0.97	1.8	2.5	8.1	1.6
105J_1989_1077	0	0.010	0.42	31	29.5	0.143	13	11.06	91	0.14	1.5	1.36	2.1	2.6	7.8	2.4
105J_1989_1078	0	0.010	0.59	27	26.7	0.126	11	9.25	63	0.09	1.0	1.33	2.1	1.9	6.3	1.7
105J_1989_1079	0	0.010	0.73	17	20.1	0.134	10	9.28	94	0.06	0.5	0.68	1.2	2.4	8.7	0.6
105J_1989_1080	0	0.014	0.60	21	21.0	0.108	13	10.07	67	0.14	0.6	0.91	1.5	2.4	6.8	1.7
105J_1989_1082	1	0.012	0.65	15	15.1	0.118	8	5.74	40	0.23	0.3	0.86	1.1	1.0	4.9	4.6
105J_1989_1083	2	0.015	0.72	14	14.2	0.122	9	6.55	52	0.23	0.3	0.75	1.0	1.1	6.0	4.3
105J_1989_1084	0	0.010	0.65	12	11.7	0.115	10	8.95	75	0.24	0.3	0.67	1.1	2.0	7.2	1.4
105J_1989_1085	0	0.057	1.90	11	9.5	0.057	5	1.21	32	0.17	0.2	0.65	1.0	0.6	4.5	1.2
105J_1989_1086	0	0.016	0.86	16	17.7	0.089	8	10.69	100	0.02	0.7	0.95	2.1	3.2	12.0	0.8
105J_1989_1087	0	0.010	0.42	33	35.2	0.138	11	12.08	88	0.14	1.0	1.19	2.0	3.2	9.5	3.2
105J_1989_1089	0	0.008	0.45	19	20.7	0.128	8	8.81	86	0.07	1.0	0.96	1.8	2.1	8.6	1.9
105J_1989_1090	0	0.013	0.55	21	21.7	0.103	9	8.12	77	0.17	0.4	0.77	1.4	2.5	8.4	2.3
105J_1989_1091	0	0.016	0.64	12	12.3	0.093	7	7.08	80	0.25	0.3	0.41	0.7	1.5	7.5	1.5
105J_1989_1092	0	0.018	0.60	18	18.3	0.078	7	6.16	75	0.24	0.3	0.42	0.8	2.1	7.0	1.7
105J_1989_1093	0	0.017	0.56	25	24.0	0.096	7	6.02	72	0.65	0.3	0.92	1.4	1.9	5.5	2.5
105J_1989_1094	0	0.017	0.61	27	25.3	0.118	5	5.19	52	0.34	0.3	0.81	1.3	4.9	10.0	3.0
105J_1989_1095	0	0.010	0.48	42	38.3	0.189	10	8.77	74	0.06	1.2	1.63	2.6	2.6	8.4	2.1
105J_1989_1096	0	0.013	0.86	16	16.2	0.083	11	11.76	86	0.30	0.2	0.44	0.8	1.2	7.1	1.1
105J_1989_1097	0	0.005	0.51	36	39.6	0.104	16	20.77	110	0.01	1.2	1.39	2.2	2.6	9.4	0.9
105J_1989_1098	0	0.010	0.49	28	28.8	0.127	11	13.91	98	0.13	1.3	1.46	2.5	2.6	8.6	1.7
105J_1989_1099	0	0.006	0.35	117	118.1	0.331	12	13.50	87	0.10	8.0	9.29	12.7	2.4	8.8	13.0
105J_1989_1100	0	0.006	0.36	111	108.8	0.220	14	12.44	99	0.03	3.5	4.62	6.8	2.5	9.1	4.3
105J_1989_1102	1	0.004	0.19	68	66.3	0.197	12	11.88	93	0.05	3.0	3.97	6.5	2.4	6.8	5.5
105J_1989_1103	2	0.004	0.19	62	72.7	0.201	8	12.41	82	0.04	3.4	4.14	6.6	2.4	6.6	5.6
105J_1989_1104	0	0.009	0.37	182	182.7	0.148	7	10.38	95	0.15	2.0	3.22	5.5	2.7	7.8	9.2
105J_1989_1105	0	0.007	0.24	51	49.5	0.120	10	14.33	97	0.09	2.4	2.20	3.9	3.0	10.0	3.0
105J_1989_1106	0	0.020	0.84	21	23.1	0.079	4	5.83	57	0.29	0.6	1.40	1.9	0.7	6.4	2.8
105J_1989_1107	0	0.014	0.78	24	28.6	0.099	6	8.89	90	0.09	1.1	1.51	2.7	2.5	10.0	3.0
105J_1989_1108	0	0.011	0.53	127	133.4	0.266	5	7.29	57	0.16	1.4	1.89	2.5	1.8	8.0	6.2
105J_1989_1109	0	0.012	0.46	71	81.3	0.304	10	12.55	75	0.65	3.1	3.99	5.9	2.4	10.0	65.3
105J_1989_1110	0	0.005	0.37	72	78.5	0.179	11	15.03	100	0.19	4.0	4.67	7.5	2.6	11.0	5.3

Unique ID	Rep Stat	Sm INAA	Sn AAS	Sr ICP-MS	Ta INAA	Tb INAA	Te ICP-MS	Th ICP-MS	Th INAA	Ti ICP-MS	Tl ICP-MS	U ICP-MS	U INAA	U NADNC	V AAS	V ICP-MS
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.5	0.5	0.5	0.02	0.1	0.2	0.001	0.02	0.1	0.2	0.5	5	2
105J_1989_1075	0	4.1	3	42.2	0.9	0.6	<0.02	2.0	6.8	0.004	0.10	1.5	3.9	3.8	23	23
105J_1989_1076	0	5.0	4	54.9	1.1	0.7	0.03	2.2	9.3	0.003	0.20	1.0	4.2	3.9	26	28
105J_1989_1077	0	3.5	6	81.4	0.7	<0.5	0.04	1.9	6.9	0.004	0.16	1.8	3.9	4.5	54	56
105J_1989_1078	0	3.8	5	67.9	0.6	0.6	0.02	1.1	7.1	0.004	0.14	1.9	4.7	4.4	30	36
105J_1989_1079	0	7.7	3	41.4	1.2	1.0	<0.02	3.9	13.0	0.030	0.17	1.3	4.0	3.7	29	31
105J_1989_1080	0	3.6	5	64.0	0.9	0.5	<0.02	1.5	7.0	0.006	0.13	2.9	4.9	5.4	32	32
105J_1989_1082	1	3.3	6	99.7	<0.5	<0.5	0.02	0.4	4.8	0.015	0.15	6.0	7.3	8.2	17	14
105J_1989_1083	2	3.7	7	94.6	<0.5	0.6	0.03	0.6	5.8	0.016	0.15	6.1	7.2	7.8	21	17
105J_1989_1084	0	4.0	4	68.1	0.8	0.6	<0.02	2.9	7.7	0.010	0.11	4.7	6.8	6.7	25	24
105J_1989_1085	0	2.1	5	66.1	<0.5	<0.5	<0.02	0.2	3.6	0.017	0.04	1.4	2.9	3.3	11	13
105J_1989_1086	0	6.8	2	32.7	1.2	0.9	0.02	4.9	12.0	0.019	0.12	1.4	4.9	4.3	40	37
105J_1989_1087	0	4.8	4	73.9	0.9	0.8	0.07	3.0	8.3	0.003	0.25	1.7	4.6	4.9	41	45
105J_1989_1089	0	4.4	3	48.0	0.8	0.7	0.02	2.5	7.6	0.003	0.15	1.8	4.2	4.3	36	41
105J_1989_1090	0	3.9	3	74.9	0.8	0.6	0.02	2.5	7.1	0.003	0.13	2.5	4.8	4.8	34	33
105J_1989_1091	0	3.6	3	81.2	0.7	<0.5	0.02	1.7	6.5	0.005	0.09	1.4	3.4	3.5	24	20
105J_1989_1092	0	3.1	2	52.8	0.7	<0.5	0.02	1.6	5.8	0.003	0.11	2.7	4.4	5.0	30	24
105J_1989_1093	0	3.0	5	87.1	0.6	0.6	0.02	1.6	5.9	0.005	0.11	5.0	7.4	7.4	36	31
105J_1989_1094	0	3.8	5	82.3	0.5	0.6	<0.02	1.5	5.6	0.005	0.12	1.3	2.9	3.4	34	31
105J_1989_1095	0	5.2	4	73.7	0.9	0.9	0.03	2.2	7.1	0.006	0.24	2.3	5.1	4.9	51	58
105J_1989_1096	0	5.2	4	104.3	0.9	0.7	0.02	2.9	10.0	0.003	0.07	2.0	4.6	4.5	14	14
105J_1989_1097	0	6.2	3	60.4	1.0	0.9	0.03	4.6	12.0	0.004	0.14	1.6	5.0	4.9	39	47
105J_1989_1098	0	5.3	2	71.6	1.1	0.9	0.03	4.2	10.0	0.003	0.15	2.3	5.3	5.3	46	55
105J_1989_1099	0	5.2	4	135.7	0.8	0.8	0.13	1.2	6.7	0.008	0.72	7.1	11.0	10.1	206	268
105J_1989_1100	0	5.6	3	88.0	0.7	0.8	0.10	1.7	8.2	0.007	0.35	4.6	8.4	7.6	116	128
105J_1989_1102	1	5.1	2	99.6	0.6	0.8	0.08	1.7	5.9	0.006	0.31	6.0	10.0	9.9	125	162
105J_1989_1103	2	5.2	3	101.5	0.7	0.8	0.07	1.7	5.7	0.005	0.34	5.9	10.0	10.1	119	168
105J_1989_1104	0	4.3	4	64.3	0.6	0.8	0.05	2.0	7.7	0.006	0.26	15.7	22.0	19.5	102	101
105J_1989_1105	0	5.6	3	65.0	1.0	0.7	0.07	3.5	8.7	0.009	0.19	2.0	5.6	5.2	51	55
105J_1989_1106	0	2.7	2	47.8	<0.5	<0.5	0.02	0.2	5.2	0.007	0.13	1.7	3.3	3.6	22	16
105J_1989_1107	0	4.0	2	46.8	0.7	0.6	0.04	1.4	7.4	0.006	0.20	2.1	4.9	4.9	39	38
105J_1989_1108	0	3.8	3	75.1	<0.5	0.7	0.07	0.8	5.6	0.007	0.22	3.0	4.5	5.0	54	54
105J_1989_1109	0	3.7	4	61.2	0.5	0.6	0.08	0.6	5.8	0.004	0.35	2.9	4.9	5.6	92	86
105J_1989_1110	0	6.1	3	96.0	0.9	1.0	0.10	1.2	9.0	0.004	0.40	4.8	9.4	8.5	92	96

Unique ID	Rep Stat	W ICP-MS ppm 0.1	W INAA ppm 1	wt INAA g 0.01	Yb INAA ppm 2	Zn AAS ppm 2	Zn ICP-MS ppm 0.1
105J_1989_1075	0	0.7	<1	25.14	<2	73	70.0
105J_1989_1076	0	<0.1	<1	30.78	2	200	211.6
105J_1989_1077	0	<0.1	<1	21.84	<2	282	268.4
105J_1989_1078	0	<0.1	<1	30.08	<2	153	144.8
105J_1989_1079	0	0.7	2	39.02	2	93	96.8
105J_1989_1080	0	<0.1	1	24.32	<2	115	102.0
105J_1989_1082	1	0.1	<1	16.80	<2	98	87.0
105J_1989_1083	2	0.2	<1	15.01	<2	105	96.7
105J_1989_1084	0	0.3	<1	15.51	<2	94	88.9
105J_1989_1085	0	<0.1	<1	18.98	<2	22	19.4
105J_1989_1086	0	0.6	2	34.44	3	107	104.4
105J_1989_1087	0	<0.1	2	20.84	<2	170	175.7
105J_1989_1089	0	<0.1	1	38.99	<2	104	113.3
105J_1989_1090	0	<0.1	<1	26.91	2	151	138.9
105J_1989_1091	0	<0.1	<1	25.62	<2	72	69.1
105J_1989_1092	0	0.3	<1	22.22	<2	127	116.9
105J_1989_1093	0	<0.1	<1	21.21	<2	173	154.4
105J_1989_1094	0	<0.1	<1	18.85	<2	181	169.9
105J_1989_1095	0	<0.1	<1	27.95	3	201	186.3
105J_1989_1096	0	<0.1	1	27.93	<2	73	67.8
105J_1989_1097	0	0.2	2	40.38	3	173	169.9
105J_1989_1098	0	<0.1	<1	28.57	3	175	175.9
105J_1989_1099	0	0.3	<1	38.91	2	1025	1081.1
105J_1989_1100	0	0.4	2	38.92	3	1010	1007.1
105J_1989_1102	1	0.3	1	21.86	2	570	557.7
105J_1989_1103	2	0.6	<1	39.60	2	513	600.7
105J_1989_1104	0	0.1	1	25.54	<2	1515	1582.1
105J_1989_1105	0	0.2	2	33.00	3	246	249.8
105J_1989_1106	0	<0.1	<1	18.18	<2	113	113.0
105J_1989_1107	0	0.3	1	27.10	2	114	112.8
105J_1989_1108	0	0.1	<1	24.26	<2	1025	963.5
105J_1989_1109	0	0.2	<1	20.12	<2	253	243.6
105J_1989_1110	0	0.2	<1	36.76	3	547	561.2

Unique ID	Rep Stat	Ag AAS	Ag ICP-MS	Al ICP-MS	As HY-AAS	As ICP-MS	As INAA	Au INAA	Au1 INAA	Au1_wt -	B ICP-MS	Ba ICP-MS	Ba INAA	Bi ICP-MS	Br INAA	Ca ICP-MS
		ppm	ppb	%	ppm	ppm	ppm	ppb	ppb	g	ppm	ppm	ppm	ppm	ppm	%
		0.2	2	0.01	1	0.1	0.5	2	2	0.01	1	0.5	50	0.02	0.5	0.01
105J_1989_1111	0	0.8	908	0.82	13	17.0	24.0	8			3	2082.3	10800	0.19	1.2	0.21
105J_1989_1112	0	0.9	1017	0.20	5	9.2	12.0	10			1	119.5	1100	0.09	10.0	<0.01
105J_1989_1113	0	1.3	941	0.93	19	29.1	34.0	6			3	1694.0	10600	0.19	2.2	0.37
105J_1989_1114	0	0.8	738	1.07	9	11.2	15.0	11			1	472.3	3900	0.21	3.9	0.15
105J_1989_1115	0	0.8	591	0.70	14	18.8	26.0	7			3	1201.1	6830	0.24	0.9	0.27
105J_1989_1117	0	0.7	500	0.59	10	14.1	19.0	9			1	1445.6	8170	0.16	1.4	0.27
105J_1989_1118	0	0.7	607	0.74	12	15.0	19.0	10			2	1491.3	6190	0.27	1.9	0.30
105J_1989_1119	0	0.8	837	0.71	10	14.3	18.0	13			3	666.8	3300	0.20	2.8	0.32
105J_1989_1120	0	1.2	968	0.91	11	14.9	21.0	11			2	724.6	4500	0.21	5.7	0.26
105J_1989_1122	0	0.6	563	0.49	10	13.9	19.0	9			1	345.7	2900	0.23	5.3	0.23
105J_1989_1123	1	0.9	1118	1.16	11	19.2	24.0	13	15	11.00	3	1224.3	3500	0.13	9.1	0.28
105J_1989_1124	2	1.2	1138	1.20	12	23.1	25.0	15	17	12.93	3	1219.4	3500	0.13	7.6	0.24
105J_1989_1125	0	1.3	1016	0.36	12	14.5	18.0	9			2	865.7	5430	0.15	3.9	0.22
105J_1989_1126	0	1.4	1432	0.75	19	27.0	31.0	11			4	1044.2	6060	0.16	18.0	0.53
105J_1989_1127	0	1.7	2110	1.68	15	21.3	25.0	16	15	19.94	3	1149.8	8920	0.31	7.7	0.23
105J_1989_1128	0	4.6	3533	0.88	20	24.7	37.0	9			2	471.2	1900	0.10	5.7	0.59
105J_1989_1129	0	0.9	872	1.45	80	88.6	110.0	17	18	21.02	3	337.2	1700	1.61	11.0	0.87
105J_1989_1131	0	1.1	1029	1.39	15	24.0	29.0	17	16	26.42	2	421.5	2000	0.91	4.9	0.40
105J_1989_1132	0	1.9	1920	0.82	4	3.2	6.9	12			4	349.1	1700	0.17	5.7	0.72
105J_1989_1133	0	2.3	2040	0.75	15	21.4	28.0	12			4	733.3	2900	0.19	3.7	0.67
105J_1989_1134	0	3.7	2645	0.99	10	13.6	18.0	7			3	767.4	2100	0.15	7.2	0.52
105J_1989_1135	0	1.7	1433	0.76	12	16.1	21.0	12			3	983.4	3400	0.18	4.6	0.62
105J_1989_1136	0	1.6	1220	0.94	13	16.9	21.0	10			3	1200.8	6140	0.24	3.8	0.66
105J_1989_1137	0	1.8	1208	0.76	12	18.2	21.0	12			4	883.6	4700	0.18	4.3	0.69
105J_1989_1138	0	1.2	921	0.99	7	11.4	15.0	10			4	410.8	2700	0.21	5.9	0.84
105J_1989_1139	0	0.9	599	0.90	20	37.6	47.0	6			3	867.0	5330	0.25	4.3	0.34
105J_1989_1140	0	1.1	900	0.79	10	14.4	21.0	12			3	787.8	6540	0.19	2.7	0.53
105J_1989_1142	0	1.8	1568	0.73	19	27.4	35.0	20	21	30.44	4	475.7	3200	0.21	10.0	0.57
105J_1989_1143	0	1.3	1283	0.81	12	16.0	21.0	10			4	1239.8	6040	0.18	4.6	0.62
105J_1989_1144	1	1.1	795	0.88	10	13.9	20.0	10			5	1231.9	6850	0.20	3.2	0.62
105J_1989_1146	2	1.1	777	0.89	10	14.8	18.0	8			5	1081.5	5120	0.21	2.9	0.63
105J_1989_1147	0	1.1	1212	0.91	12	18.2	21.0	14	11	28.19	5	840.6	4400	0.21	5.0	0.44
105J_1989_1148	0	3.4	2737	0.73	13	16.1	21.0	13			5	596.1	2700	0.18	2.7	0.68

Unique ID	Rep Stat	Cd AAS	Cd ICP-MS	Ce INAA	Co AAS	Co ICP-MS	Co INAA	Cr ICP-MS	Cr INAA	Cs INAA	Cu AAS	Cu ICP-MS	Eu INAA	F ISE	Fe AAS	Fe ICP-MS	Fe INAA
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	pct	%	pct
		0.2	0.01	5	2	0.1	5	0.5	20	0.5	2	0.01	1	20	0.02	0.01	0.2
105J_1989_1111	0	4.2	4.37	54	8	10.9	12	17.1	81	5.1	86	80.70	<1	447	2.93	2.77	3.4
105J_1989_1112	0	<0.2	0.09	<5	<2	0.6	<5	14.5	<20	2.9	28	27.94	<1	309	27.60	29.58	33.4
105J_1989_1113	0	7.0	8.73	40	15	22.9	23	15.8	92	5.3	64	87.64	1	508	3.79	4.04	4.2
105J_1989_1114	0	10.7	13.48	51	26	34.9	38	12.5	79	5.3	63	68.68	<1	429	3.69	4.14	4.5
105J_1989_1115	0	2.5	2.72	53	8	10.3	12	12.8	84	5.9	55	52.80	<1	446	2.16	2.43	2.7
105J_1989_1117	0	1.9	2.34	67	9	9.2	11	12.3	80	4.4	50	45.14	<1	428	2.40	2.08	2.6
105J_1989_1118	0	2.6	2.96	60	8	10.7	11	15.2	82	4.7	53	50.84	<1	484	2.49	2.32	2.7
105J_1989_1119	0	4.5	5.20	57	7	10.6	11	14.3	89	5.1	70	73.60	<1	513	2.28	2.19	2.8
105J_1989_1120	0	10.6	12.09	53	20	23.7	26	14.2	100	6.5	61	59.19	1	440	3.57	3.51	4.3
105J_1989_1122	0	3.6	3.76	59	8	8.9	11	10.6	85	6.9	51	50.55	<1	388	2.38	2.33	3.1
105J_1989_1123	1	9.5	13.25	19	13	13.8	16	15.6	73	6.9	35	32.78	<1	318	5.96	4.68	5.8
105J_1989_1124	2	9.6	12.84	23	11	12.8	12	16.1	67	6.8	34	32.27	<1	332	6.71	5.92	5.8
105J_1989_1125	0	4.2	4.67	37	7	9.3	10	13.3	110	6.2	62	67.52	<1	391	2.51	2.47	2.8
105J_1989_1126	0	18.3	20.38	36	40	52.8	52	13.6	59	6.1	80	75.87	<1	364	4.97	5.00	5.1
105J_1989_1127	0	16.6	25.63	56	35	56.2	56	12.6	81	15.0	186	212.55	2	451	4.04	4.18	5.1
105J_1989_1128	0	9.8	9.97	29	11	11.5	17	31.9	160	2.7	120	115.36	1	408	3.25	2.73	3.8
105J_1989_1129	0	3.5	4.45	63	11	15.4	21	23.5	65	6.0	121	114.02	1	697	3.01	3.10	4.4
105J_1989_1131	0	1.9	2.61	56	6	6.2	9	16.1	77	7.7	60	55.80	<1	460	2.31	1.89	2.7
105J_1989_1132	0	4.5	5.25	45	4	4.7	6	27.0	110	4.1	75	72.73	<1	506	1.18	0.99	1.4
105J_1989_1133	0	12.7	16.85	46	7	12.2	15	26.0	140	4.6	84	84.34	<1	674	2.29	2.22	2.8
105J_1989_1134	0	11.4	11.99	39	4	4.2	6	24.9	100	3.9	95	88.92	<1	443	1.85	1.41	2.6
105J_1989_1135	0	8.2	8.98	54	5	7.3	9	24.5	110	4.9	60	53.56	<1	574	2.25	1.86	2.6
105J_1989_1136	0	12.9	15.14	65	7	7.9	9	23.5	120	5.3	67	64.46	<1	669	2.19	2.14	2.7
105J_1989_1137	0	9.4	10.48	56	9	10.9	10	23.7	89	4.2	76	77.87	<1	520	2.30	2.36	2.6
105J_1989_1138	0	5.4	5.07	46	8	7.7	7	18.4	52	4.3	59	49.80	<1	463	2.32	1.85	1.9
105J_1989_1139	0	2.4	2.45	63	9	7.8	10	16.0	75	5.8	46	38.93	<1	466	3.21	2.78	3.3
105J_1989_1140	0	6.1	7.19	61	8	7.8	10	24.5	100	4.6	63	66.19	<1	569	1.85	1.75	2.3
105J_1989_1142	0	11.0	11.80	60	18	20.6	22	20.4	130	4.6	115	110.00	<1	554	3.68	3.53	4.4
105J_1989_1143	0	10.5	12.60	61	8	8.1	10	27.5	120	4.5	75	71.80	1	653	2.09	1.95	2.6
105J_1989_1144	1	6.5	7.17	72	8	7.9	10	22.8	120	4.9	59	52.08	<1	653	2.02	1.93	2.9
105J_1989_1146	2	7.2	6.81	54	8	8.4	10	23.8	110	4.1	59	57.09	<1	642	2.04	2.04	2.4
105J_1989_1147	0	12.0	15.02	68	13	14.2	15	23.7	110	4.4	74	82.83	1	531	2.38	2.43	3.1
105J_1989_1148	0	14.6	15.28	44	9	8.0	10	34.3	150	3.6	93	91.53	<1	576	1.78	1.76	2.2

Unique ID	Rep Stat	Ga ICP-MS ppm 0.2	Hf INAA ppm 1	Hg CV-AAS ppb 10	Hg ICP-MS ppb 5	K ICP-MS % 0.01	La ICP-MS ppm 0.5	La INAA ppm 2	LOI GRAV pct 1.0	Lu INAA ppm 0.2	Mg ICP-MS % 0.01	Mn AAS ppm 5	Mn ICP-MS ppm 1	Mo AAS ppm 2	Mo ICP-MS ppm 0.01	Mo INAA ppm 1
105J_1989_1111	0	2.1	5	296	326	0.11	7.6	29	5.4	<0.2	0.19	230	282	9	9.84	11
105J_1989_1112	0	0.8	1	207	224	0.06	0.9	9	24.6	<0.2	0.01	12	15	3	1.65	<1
105J_1989_1113	0	2.1	2	330	378	0.10	5.9	22	7.7	<0.2	0.20	607	769	20	16.72	17
105J_1989_1114	0	1.7	4	170	192	0.11	4.8	24	7.3	<0.2	0.09	1421	1900	5	4.16	3
105J_1989_1115	0	2.1	4	238	264	0.11	8.0	25	5.4	<0.2	0.23	468	534	7	5.32	7
105J_1989_1117	0	1.8	8	211	218	0.09	7.1	32	6.3	<0.2	0.18	917	1016	5	3.92	4
105J_1989_1118	0	2.1	6	255	281	0.11	8.3	29	5.8	<0.2	0.22	770	914	5	4.50	5
105J_1989_1119	0	2.1	4	306	334	0.11	7.1	26	7.0	<0.2	0.19	553	632	8	7.87	9
105J_1989_1120	0	2.0	5	313	338	0.13	4.7	26	8.4	<0.2	0.12	1135	1359	8	6.87	8
105J_1989_1122	0	1.8	6	201	189	0.07	5.1	27	7.0	<0.2	0.13	281	319	5	3.99	5
105J_1989_1123	1	2.2	1	556	622	0.09	4.0	11	29.2	<0.2	0.10	1368	1361	10	9.26	9
105J_1989_1124	2	2.5	<1	571	685	0.08	4.0	11	26.0	<0.2	0.10	1560	1713	11	11.25	10
105J_1989_1125	0	1.2	3	340	412	0.08	2.3	20	5.8	<0.2	0.06	368	433	5	5.45	6
105J_1989_1126	0	2.1	2	496	536	0.09	2.7	16	21.7	<0.2	0.13	11102	8978	13	12.76	13
105J_1989_1127	0	1.8	3	347	527	0.12	3.4	27	10.4	<0.2	0.07	2262	2192	6	5.58	5
105J_1989_1128	0	1.8	2	649	687	0.06	3.2	21	16.1	<0.2	0.07	484	478	20	19.66	25
105J_1989_1129	0	4.2	4	391	390	0.17	13.0	33	19.7	<0.2	0.69	2002	1877	10	5.26	6
105J_1989_1131	0	3.8	4	316	341	0.13	10.4	27	11.5	<0.2	0.32	407	410	6	3.77	3
105J_1989_1132	0	2.4	3	459	505	0.08	8.3	26	21.2	<0.2	0.22	78	73	6	4.58	4
105J_1989_1133	0	2.6	4	418	493	0.13	10.1	28	10.3	<0.2	0.19	1031	1134	12	11.60	12
105J_1989_1134	0	3.0	3	500	562	0.09	7.8	21	20.6	<0.2	0.18	523	502	11	8.89	11
105J_1989_1135	0	2.4	3	399	413	0.09	9.4	28	16.5	<0.2	0.20	719	684	11	10.48	12
105J_1989_1136	0	2.6	4	354	393	0.11	12.6	31	8.5	<0.2	0.25	659	773	9	8.40	10
105J_1989_1137	0	2.7	4	374	456	0.13	14.1	27	8.8	<0.2	0.36	1408	1602	16	15.29	17
105J_1989_1138	0	2.8	4	245	242	0.12	10.6	21	21.6	<0.2	0.39	836	664	5	3.58	3
105J_1989_1139	0	2.1	4	187	192	0.10	11.6	32	10.8	<0.2	0.24	196	200	8	6.08	6
105J_1989_1140	0	2.5	4	252	265	0.11	12.4	32	7.4	<0.2	0.28	87	106	8	7.12	9
105J_1989_1142	0	2.3	3	498	554	0.15	14.6	32	11.9	<0.2	0.28	2002	1867	21	17.59	21
105J_1989_1143	0	2.6	4	333	363	0.11	13.1	30	7.6	<0.2	0.24	1017	1060	11	9.52	12
105J_1989_1144	1	2.5	4	224	237	0.11	12.5	34	7.5	<0.2	0.25	502	566	8	6.96	8
105J_1989_1146	2	2.4	4	228	257	0.10	11.8	26	7.4	<0.2	0.26	493	559	8	7.05	8
105J_1989_1147	0	2.8	3	364	532	0.11	12.1	32	8.8	<0.2	0.25	2340	2534	12	11.67	13
105J_1989_1148	0	2.3	3	512	595	0.13	8.9	25	8.8	<0.2	0.15	382	392	16	14.88	17

Unique ID	Rep Stat	Na ICP-MS % 0.001	Na INAA pct 0.02	Ni AAS ppm 2	Ni ICP-MS ppm 0.1	P ICP-MS % 0.001	Pb AAS ppm 2	Pb ICP-MS ppm 0.01	Rb INAA ppm 5	S ICP-MS % 0.01	Sb HY-AAS ppm 0.2	Sb ICP-MS ppm 0.02	Sb INAA ppm 0.1	Sc ICP-MS ppm 0.1	Sc INAA ppm 0.2	Se ICP-MS ppm 0.1
105J_1989_1111	0	0.006	0.43	48	49.4	0.166	9	12.31	85	0.19	4.0	4.57	7.9	3.4	11.0	6.1
105J_1989_1112	0	0.001	0.07	<2	2.5	0.090	3	6.91	31	2.14	0.8	2.26	2.7	1.2	4.8	2.9
105J_1989_1113	0	0.005	0.22	86	93.1	0.214	10	13.45	82	0.24	8.0	6.47	10.2	3.2	10.0	8.8
105J_1989_1114	0	0.003	0.22	117	129.4	0.080	8	13.53	100	0.19	1.5	2.07	3.6	3.1	9.5	3.5
105J_1989_1115	0	0.006	0.32	40	40.0	0.111	10	12.96	110	0.16	2.7	3.02	5.9	2.7	8.5	4.1
105J_1989_1117	0	0.004	0.41	47	43.4	0.110	8	9.98	89	0.13	2.1	2.36	4.2	2.2	9.2	2.8
105J_1989_1118	0	0.005	0.40	51	57.9	0.112	9	11.61	86	0.10	2.4	2.61	4.4	2.9	9.5	3.0
105J_1989_1119	0	0.004	0.43	70	75.6	0.106	9	11.90	110	0.11	3.1	3.96	6.1	2.6	10.0	2.5
105J_1989_1120	0	0.003	0.26	152	146.6	0.143	11	14.53	110	0.15	2.7	2.42	4.6	3.1	11.0	4.1
105J_1989_1122	0	0.003	0.41	56	58.1	0.050	11	12.57	100	0.10	2.0	2.47	4.2	1.8	11.0	2.1
105J_1989_1123	1	0.008	0.49	96	100.1	0.556	8	10.17	81	0.23	1.0	1.65	2.8	1.9	7.9	10.1
105J_1989_1124	2	0.008	0.48	94	94.0	0.582	8	10.59	73	0.20	1.1	1.74	2.6	2.3	7.9	9.9
105J_1989_1125	0	0.002	0.14	64	68.4	0.101	8	11.48	76	0.12	2.0	3.14	4.6	2.9	8.8	3.8
105J_1989_1126	0	0.006	0.30	576	465.4	0.291	11	16.11	73	0.35	1.7	3.21	4.3	3.0	7.3	8.4
105J_1989_1127	0	0.002	0.12	396	445.7	0.156	19	30.44	110	0.21	3.0	4.41	6.2	8.3	15.0	6.1
105J_1989_1128	0	0.004	0.41	136	128.0	0.284	5	6.36	51	0.25	2.5	5.44	7.8	1.7	7.9	15.2
105J_1989_1129	0	0.009	0.53	104	100.7	0.195	97	108.72	87	0.21	13.0	10.63	18.2	2.0	10.0	3.3
105J_1989_1131	0	0.010	0.73	40	43.2	0.099	12	15.66	130	0.07	1.8	1.76	3.3	2.7	12.0	1.7
105J_1989_1132	0	0.008	0.50	85	88.4	0.172	12	13.50	80	0.18	1.7	2.55	3.8	1.3	10.0	8.1
105J_1989_1133	0	0.006	0.32	134	144.3	0.216	11	12.93	95	0.15	4.0	5.20	8.1	2.6	10.0	6.1
105J_1989_1134	0	0.018	1.30	152	140.0	0.241	8	8.81	92	0.13	1.7	3.53	4.9	0.4	10.0	4.4
105J_1989_1135	0	0.006	0.45	92	86.5	0.203	7	10.88	95	0.13	2.5	4.13	6.2	1.9	10.0	6.9
105J_1989_1136	0	0.006	0.45	156	151.5	0.227	9	13.86	98	0.10	3.5	4.73	7.2	2.4	10.0	5.5
105J_1989_1137	0	0.005	0.36	170	174.6	0.200	13	10.86	96	0.12	4.3	6.87	9.2	2.6	7.7	5.7
105J_1989_1138	0	0.008	0.33	46	41.4	0.137	13	10.25	86	0.11	1.7	2.37	3.6	2.0	7.1	3.1
105J_1989_1139	0	0.010	0.32	50	49.1	0.164	14	12.46	100	0.24	3.5	3.19	5.1	2.2	9.1	3.2
105J_1989_1140	0	0.006	0.36	86	88.7	0.186	11	11.57	100	0.26	3.6	4.37	6.9	2.5	9.1	7.3
105J_1989_1142	0	0.004	0.17	253	233.5	0.233	20	16.31	110	0.22	10.0	8.40	11.9	2.8	10.0	6.1
105J_1989_1143	0	0.006	0.42	153	143.9	0.231	12	11.15	90	0.12	4.0	5.13	7.6	2.4	10.0	6.8
105J_1989_1144	1	0.008	0.57	103	99.7	0.218	11	10.50	110	0.08	3.2	3.99	6.0	2.1	11.0	3.1
105J_1989_1146	2	0.008	0.50	104	103.2	0.229	11	11.35	91	0.09	3.3	3.66	5.5	2.3	8.8	3.5
105J_1989_1147	0	0.006	0.42	143	169.7	0.200	12	13.31	99	0.15	3.4	4.41	6.7	2.3	10.0	5.2
105J_1989_1148	0	0.005	0.29	196	201.9	0.263	15	12.51	84	0.11	8.0	6.37	10.0	2.7	10.0	10.6

Unique ID	Rep Stat	Sm INAA	Sn AAS	Sr ICP-MS	Ta INAA	Tb INAA	Te ICP-MS	Th ICP-MS	Th INAA	Ti ICP-MS	Tl ICP-MS	U ICP-MS	U INAA	U NADNC	V AAS	V ICP-MS
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.5	0.5	0.5	0.02	0.1	0.2	0.001	0.02	0.1	0.2	0.5	5	2
105J_1989_1111	0	5.8	2	87.5	1.1	1.0	0.11	2.0	8.7	0.008	0.35	3.5	7.9	7.1	94	86
105J_1989_1112	0	1.8	<1	11.5	<0.5	<0.5	0.02	0.6	3.1	0.002	0.17	0.8	2.0	1.9	396	449
105J_1989_1113	0	5.0	5	87.8	0.7	1.1	0.10	2.0	7.0	0.004	0.49	4.7	8.2	8.0	128	124
105J_1989_1114	0	5.6	2	34.4	0.9	1.1	0.08	1.5	8.2	0.004	0.43	1.4	4.3	3.9	68	72
105J_1989_1115	0	5.8	2	55.3	0.9	0.9	0.06	2.8	10.0	0.008	0.22	3.0	7.2	6.4	55	56
105J_1989_1117	0	6.8	<1	53.6	1.2	0.9	0.06	1.9	10.0	0.006	0.21	2.8	7.2	6.4	57	48
105J_1989_1118	0	6.1	2	57.3	0.9	0.8	0.08	2.0	8.8	0.007	0.23	2.9	6.6	6.2	62	58
105J_1989_1119	0	5.6	2	56.5	1.0	0.9	0.07	1.2	8.2	0.005	0.28	4.9	9.5	8.6	87	86
105J_1989_1120	0	5.8	3	49.6	1.1	1.1	0.09	1.4	8.8	0.004	0.42	2.1	5.7	5.2	109	107
105J_1989_1122	0	5.4	3	23.4	1.1	0.7	0.08	0.4	9.1	0.005	0.20	1.4	5.1	5.1	47	54
105J_1989_1123	1	2.8	2	58.0	<0.5	0.6	0.03	0.3	3.7	0.004	0.61	2.9	4.4	5.0	67	65
105J_1989_1124	2	2.7	3	55.4	<0.5	0.6	0.02	0.5	3.6	0.004	0.62	3.0	4.4	5.1	67	69
105J_1989_1125	0	4.3	2	58.4	0.8	0.7	0.11	0.7	6.2	0.002	0.29	2.3	5.7	5.1	73	79
105J_1989_1126	0	4.1	3	80.9	<0.5	0.5	0.10	0.5	5.4	0.004	0.80	3.0	5.4	5.8	106	98
105J_1989_1127	0	9.0	3	54.3	1.3	1.8	0.16	2.6	10.0	0.002	0.89	3.4	6.4	6.1	65	65
105J_1989_1128	0	6.3	2	96.9	<0.5	1.4	0.11	0.3	3.7	0.005	0.64	12.3	21.9	19.9	221	273
105J_1989_1129	0	5.8	18	76.2	1.0	0.8	0.08	0.9	8.4	0.020	0.41	5.8	10.0	10.0	114	87
105J_1989_1131	0	5.2	3	48.3	1.0	0.8	0.04	1.1	10.0	0.010	0.28	5.8	10.0	9.2	62	65
105J_1989_1132	0	5.2	5	84.9	1.0	1.0	0.06	0.3	7.0	0.004	0.40	10.3	15.0	16.2	88	101
105J_1989_1133	0	6.0	4	90.2	0.9	1.2	0.11	1.1	7.7	0.006	0.49	7.6	13.0	12.0	155	177
105J_1989_1134	0	4.0	2	57.2	0.7	0.7	0.07	0.1	6.2	0.003	0.47	14.3	20.0	20.8	143	147
105J_1989_1135	0	5.3	4	81.0	0.6	0.8	0.06	0.6	7.3	0.005	0.38	9.1	15.0	14.0	173	176
105J_1989_1136	0	6.1	2	103.2	1.0	1.0	0.07	1.3	8.4	0.008	0.43	4.3	8.4	7.8	130	132
105J_1989_1137	0	5.7	3	103.0	0.9	0.8	0.10	2.4	7.6	0.008	0.44	4.9	8.9	8.5	133	181
105J_1989_1138	0	4.2	5	86.3	0.8	0.6	0.06	1.4	7.5	0.007	0.25	7.3	11.0	11.5	73	77
105J_1989_1139	0	5.8	3	53.0	0.9	0.8	0.05	3.1	9.1	0.009	0.22	3.7	7.3	7.1	68	70
105J_1989_1140	0	6.1	3	81.8	0.9	0.9	0.06	1.8	8.4	0.008	0.33	5.5	10.0	9.3	111	139
105J_1989_1142	0	6.5	5	105.8	0.9	1.2	0.12	1.7	7.3	0.004	0.51	17.3	24.4	22.6	117	129
105J_1989_1143	0	6.0	4	99.4	1.0	1.1	0.10	1.3	7.9	0.008	0.44	6.4	11.0	10.1	146	177
105J_1989_1144	1	6.4	4	93.4	0.8	0.9	0.06	1.3	9.1	0.009	0.31	6.7	12.0	10.5	100	119
105J_1989_1146	2	5.2	4	92.7	0.8	0.6	0.09	1.4	7.7	0.009	0.31	7.1	11.0	10.7	89	117
105J_1989_1147	0	6.3	2	70.8	0.8	0.8	0.11	0.9	7.5	0.006	0.43	14.1	17.0	15.4	109	145
105J_1989_1148	0	5.8	5	98.1	0.7	0.9	0.13	0.8	6.6	0.006	0.61	9.9	15.0	14.2	165	221

Unique ID	Rep Stat	W ICP-MS ppm 0.1	W INAA ppm 1	wt INAA g 0.01	Yb INAA ppm 2	Zn AAS ppm 2	Zn ICP-MS ppm 0.1
105J_1989_1111	0	0.1	1	35.83	3	312	368.0
105J_1989_1112	0	<0.1	<1	24.80	<2	27	27.9
105J_1989_1113	0	0.1	<1	24.78	2	798	748.2
105J_1989_1114	0	<0.1	1	37.26	4	640	651.6
105J_1989_1115	0	0.3	2	37.66	<2	254	282.0
105J_1989_1117	0	0.2	2	41.72	2	240	280.8
105J_1989_1118	0	0.2	2	39.71	3	313	358.8
105J_1989_1119	0	0.1	<1	41.04	3	518	535.4
105J_1989_1120	0	<0.1	1	34.71	3	882	844.9
105J_1989_1122	0	<0.1	<1	39.57	3	276	318.9
105J_1989_1123	1	<0.1	<1	16.01	<2	248	261.2
105J_1989_1124	2	<0.1	<1	18.10	<2	263	274.9
105J_1989_1125	0	<0.1	<1	19.93	3	340	406.2
105J_1989_1126	0	<0.1	<1	22.78	<2	1670	1727.1
105J_1989_1127	0	<0.1	1	27.94	4	1575	1852.7
105J_1989_1128	0	<0.1	<1	33.53	4	924	805.0
105J_1989_1129	0	0.1	2	28.66	3	529	478.5
105J_1989_1131	0	0.1	<1	33.19	2	249	270.0
105J_1989_1132	0	0.1	<1	25.43	<2	600	589.3
105J_1989_1133	0	0.1	<1	23.88	3	1350	1441.4
105J_1989_1134	0	0.1	<1	27.22	3	778	657.7
105J_1989_1135	0	0.1	2	31.10	3	710	610.1
105J_1989_1136	0	0.2	<1	36.41	3	1760	1916.0
105J_1989_1137	0	0.1	1	40.09	<2	1205	1402.4
105J_1989_1138	0	0.2	<1	14.63	<2	298	290.2
105J_1989_1139	0	0.5	2	20.21	3	406	389.2
105J_1989_1140	0	0.5	1	35.84	2	869	821.9
105J_1989_1142	0	<0.1	<1	36.51	4	1075	1020.9
105J_1989_1143	0	0.1	<1	36.22	3	1180	1271.1
105J_1989_1144	1	0.2	<1	35.37	3	1033	995.6
105J_1989_1146	2	0.2	<1	17.41	<2	1017	1010.1
105J_1989_1147	0	0.3	1	35.83	3	829	853.0
105J_1989_1148	0	<0.1	<1	33.18	4	1600	1841.7

Unique ID	Rep Stat	Ag AAS	Ag ICP-MS	Al ICP-MS	As HY-AAS	As ICP-MS	As INAA	Au INAA	Au1 INAA	Au1_wt -	B ICP-MS	Ba ICP-MS	Ba INAA	Bi ICP-MS	Br INAA	Ca ICP-MS
		ppm	ppb	%	ppm	ppm	ppm	ppb	ppb	g	ppm	ppm	ppm	ppm	ppm	%
		0.2	2	0.01	1	0.1	0.5	2	2	0.01	1	0.5	50	0.02	0.5	0.01
105J_1989_1149	0	3.5	3801	0.62	18	25.9	31.0	16	14	27.35	6	532.0	2000	0.19	7.8	0.77
105J_1989_1150	0	3.2	2006	0.77	2	0.7	4.1	25	23	9.24	5	610.1	1500	0.13	13.0	0.71
105J_1989_1151	0	1.9	1259	0.85	32	37.0	49.0	13			5	757.8	3200	0.56	7.6	0.46
105J_1989_1152	0	1.0	980	0.76	10	15.5	19.0	13			5	1520.6	6080	0.21	4.1	0.51
105J_1989_1153	0	1.8	1829	0.80	15	21.6	25.0	15	13	29.00	5	602.5	2800	0.20	4.7	0.64
105J_1989_1154	0	1.8	1488	0.69	13	17.7	23.0	16	17	19.51	3	893.5	5620	0.19	5.4	0.45
105J_1989_1155	0	1.5	1904	0.76	120	156.0	167.0	21	23	28.46	3	794.1	3300	1.15	5.3	0.37
105J_1989_1156	0	3.6	2872	0.79	15	22.1	26.0	14	12	21.87	3	1150.2	9650	0.19	7.4	0.42
105J_1989_1157	0	0.8	1023	0.84	10	15.0	18.0	16	13	28.03	4	932.5	6060	0.19	6.3	0.41
105J_1989_1158	0	1.4	1475	0.95	11	16.9	20.0	17	14	23.09	4	968.0	4700	0.24	7.2	0.54
105J_1989_1159	0	1.4	883	0.75	12	16.4	19.0	11			4	1354.9	8480	0.19	3.0	0.45
105J_1989_1160	0	0.6	443	0.96	6	8.9	11.0	11			5	375.5	2400	0.16	7.2	0.65
105J_1989_1162	1	1.0	927	0.76	11	15.2	17.0	16	8	13.66	4	1210.3	9800	0.18	1.8	0.50
105J_1989_1163	2	0.9	881	0.76	10	13.7	17.0	11	9	12.30	5	935.5	8060	0.17	2.0	0.50
105J_1989_1164	0	1.1	878	0.83	9	11.3	15.0	10			3	534.7	2800	0.17	5.6	0.45
105J_1989_1165	0	0.3	200	0.78	4	7.2	9.4	5			4	372.2	2400	0.10	4.2	0.60
105J_1989_1166	0	0.2	155	0.69	4	7.2	9.0	3			3	341.2	1700	0.11	5.1	1.05
105J_1989_1167	0	0.6	339	0.70	6	10.5	14.0	<2			3	474.5	2100	0.15	3.6	1.33
105J_1989_1168	0	0.5	259	0.73	2	4.6	5.5	<2			8	405.9	1200	0.12	16.0	2.10
105J_1989_1169	0	0.3	202	0.90	9	14.3	19.0	6			4	391.1	2600	0.16	2.2	0.64
105J_1989_1170	0	0.7	277	0.94	4	7.5	10.0	6			3	316.7	2000	0.16	4.8	0.82
105J_1989_1171	0	0.3	230	0.72	3	6.1	8.1	<2			5	319.9	1700	0.11	7.5	0.83
105J_1989_1172	0	0.5	234	0.74	3	5.3	7.4	6			4	317.6	1700	0.10	7.7	1.03
105J_1989_1174	0	<0.2	98	1.00	2	5.4	5.8	<2			4	123.3	920	0.03	28.0	1.84
105J_1989_1175	0	<0.2	69	0.52	2	5.7	6.0	<2			3	622.1	710	0.02	34.0	2.18
105J_1989_1176	0	0.2	246	1.43	12	19.9	23.0	8	5	17.75	4	229.0	1800	0.15	6.9	1.39
105J_1989_1177	0	0.3	292	1.30	13	23.8	28.0	7			5	253.8	2100	0.17	4.9	0.89
105J_1989_1178	0	0.5	399	0.95	9	13.6	17.0	13			4	414.9	2600	0.15	3.5	0.58
105J_1989_1179	0	<0.2	34	0.04	1	<0.1	1.8	<2			20	101.9	79	<0.02	14.0	3.36
105J_1989_1180	0	<0.2	225	0.88	3	4.6	6.7	6			5	155.8	1300	0.13	3.0	1.03
105J_1989_1182	1	0.2	171	1.07	7	11.6	14.0	6			3	335.0	1800	0.21	4.5	0.74
105J_1989_1183	2	<0.2	153	1.06	10	17.0	18.0	4			2	311.1	1400	0.19	5.4	0.82
105J_1989_1184	0	0.5	235	0.94	4	6.8	10.0	7			2	353.8	4100	0.16	2.6	0.53

Unique ID	Rep Stat	Cd AAS	Cd ICP-MS	Ce INAA	Co AAS	Co ICP-MS	Co INAA	Cr ICP-MS	Cr INAA	Cs INAA	Cu AAS	Cu ICP-MS	Eu INAA	F ISE	Fe AAS	Fe ICP-MS	Fe INAA
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	pct	%	pct
		0.2	0.01	5	2	0.1	5	0.5	20	0.5	2	0.01	1	20	0.02	0.01	0.2
105J_1989_1149	0	21.3	31.24	45	6	5.1	<5	31.4	150	3.9	113	123.97	1	602	2.14	2.18	2.3
105J_1989_1150	0	5.6	4.21	22	2	1.4	<5	15.4	57	3.2	80	74.38	<1	315	0.55	0.37	0.7
105J_1989_1151	0	9.3	9.24	51	11	9.9	12	20.7	99	5.3	83	73.85	<1	564	2.17	1.77	2.6
105J_1989_1152	0	5.1	6.35	49	9	7.7	10	16.5	90	4.7	57	58.27	<1	442	2.01	1.99	2.4
105J_1989_1153	0	16.6	22.03	59	11	12.8	13	24.1	130	4.1	89	95.11	<1	581	2.41	2.46	3.1
105J_1989_1154	0	9.9	12.85	52	9	10.1	10	24.4	130	5.3	84	85.63	<1	545	2.24	1.99	2.6
105J_1989_1155	0	4.4	8.53	48	9	11.9	14	18.6	96	6.5	91	109.78	1	531	2.71	2.91	3.8
105J_1989_1156	0	12.6	16.73	47	8	9.1	8	39.0	160	4.2	118	120.99	<1	620	2.51	1.79	2.5
105J_1989_1157	0	3.6	5.67	60	8	10.6	12	18.9	99	5.3	54	68.32	<1	478	2.35	2.18	3.1
105J_1989_1158	0	7.6	9.74	53	9	11.3	11	27.6	120	5.2	79	86.16	<1	607	2.59	2.72	3.1
105J_1989_1159	0	5.2	5.40	76	8	8.3	9	21.8	100	4.1	61	62.42	1	617	1.78	1.78	2.2
105J_1989_1160	0	2.4	3.16	56	9	9.3	9	17.4	61	4.1	57	59.74	<1	640	2.16	2.11	2.6
105J_1989_1162	1	3.8	5.06	80	9	10.6	11	22.2	89	3.6	64	71.75	<1	731	2.18	2.19	2.5
105J_1989_1163	2	4.0	5.21	66	10	9.6	11	21.0	90	3.6	64	64.09	1	690	2.20	2.14	2.4
105J_1989_1164	0	9.4	8.06	55	19	18.0	24	12.5	67	4.1	49	41.10	<1	460	2.43	1.84	2.6
105J_1989_1165	0	1.1	0.88	60	6	5.3	8	11.9	61	3.7	23	19.85	1	495	1.78	1.61	2.3
105J_1989_1166	0	0.4	0.74	63	9	9.2	12	10.2	59	3.4	25	22.98	<1	572	2.45	2.31	3.0
105J_1989_1167	0	1.2	1.62	64	8	8.0	10	12.0	67	4.8	35	32.00	<1	500	2.26	1.96	2.7
105J_1989_1168	0	1.0	1.27	31	6	5.8	5	9.2	39	4.0	30	26.06	<1	261	2.98	2.87	3.0
105J_1989_1169	0	1.3	1.50	61	8	8.5	11	13.5	60	4.3	35	32.47	<1	506	1.92	2.01	2.8
105J_1989_1170	0	1.4	1.35	63	9	7.9	11	13.4	66	5.7	35	31.35	<1	462	2.28	1.86	2.5
105J_1989_1171	0	0.8	1.11	44	8	7.3	9	8.9	53	10.0	26	22.48	<1	395	2.36	1.90	2.3
105J_1989_1172	0	0.9	1.31	31	5	3.8	<5	10.2	37	3.5	33	27.48	<1	500	2.19	1.85	2.1
105J_1989_1174	0	0.2	0.79	<5	5	5.5	<5	5.5	<20	0.5	23	19.41	<1	45	13.70	9.98	11.0
105J_1989_1175	0	0.2	0.79	<5	3	2.3	<5	3.8	<20	<0.5	11	9.47	<1	28	16.10	11.97	13.0
105J_1989_1176	0	0.2	1.16	58	10	9.1	10	18.5	51	4.4	44	38.75	<1	552	2.73	2.36	3.1
105J_1989_1177	0	0.5	1.02	67	10	9.3	11	18.0	65	5.0	48	42.87	<1	643	3.68	3.56	4.2
105J_1989_1178	0	1.0	1.44	69	8	7.9	10	16.9	74	4.7	48	44.77	<1	670	2.61	2.48	3.2
105J_1989_1179	0	0.2	1.05	<5	<2	1.7	<5	3.0	<20	<0.5	7	10.02	<1	25	0.60	1.04	1.0
105J_1989_1180	0	0.2	0.63	73	6	7.4	9	13.5	79	4.6	45	38.56	<1	633	2.23	1.91	2.7
105J_1989_1182	1	0.4	0.72	61	9	9.2	12	15.0	47	4.1	37	36.61	<1	479	2.44	2.47	3.0
105J_1989_1183	2	0.5	0.98	52	8	8.6	9	14.2	27	3.9	37	34.72	<1	482	3.17	3.00	2.7
105J_1989_1184	0	1.2	1.85	94	11	12.1	14	10.7	63	5.6	40	41.51	1	814	2.20	2.27	3.0

Unique ID	Rep Stat	Ga ICP-MS ppm 0.2	Hf INAA ppm 1	Hg CV-AAS ppb 10	Hg ICP-MS ppb 5	K ICP-MS % 0.01	La ICP-MS ppm 0.5	La INAA ppm 2	LOI GRAV pct 1.0	Lu INAA ppm 0.2	Mg ICP-MS % 0.01	Mn AAS ppm 5	Mn ICP-MS ppm 1	Mo AAS ppm 2	Mo ICP-MS ppm 0.01	Mo INAA ppm 1
105J_1989_1149	0	2.2	3	1200	1055	0.10	9.0	25	10.6	<0.2	0.13	359	438	23	22.04	25
105J_1989_1150	0	1.9	<1	1120	1081	0.07	4.6	11	39.0	<0.2	0.18	53	41	<2	1.03	2
105J_1989_1151	0	2.4	3	381	424	0.09	8.4	25	9.9	<0.2	0.21	485	468	11	9.88	12
105J_1989_1152	0	2.2	5	291	355	0.11	7.4	25	8.7	<0.2	0.18	364	379	6	6.01	6
105J_1989_1153	0	2.4	4	415	587	0.11	9.9	29	8.9	<0.2	0.16	1508	1782	15	15.53	17
105J_1989_1154	0	2.3	3	547	628	0.09	9.0	29	8.6	<0.2	0.18	716	867	9	9.35	11
105J_1989_1155	0	2.4	3	437	613	0.11	10.4	26	7.5	<0.2	0.17	1294	2075	7	8.20	7
105J_1989_1156	0	2.8	3	760	921	0.08	9.7	29	14.6	<0.2	0.17	469	404	20	17.38	19
105J_1989_1157	0	2.3	5	300	392	0.09	10.6	30	7.8	<0.2	0.27	655	899	5	5.60	6
105J_1989_1158	0	3.0	3	448	514	0.14	13.1	29	9.6	<0.2	0.33	624	779	10	9.71	10
105J_1989_1159	0	2.4	6	312	295	0.11	16.4	41	6.5	<0.2	0.29	335	365	5	5.76	5
105J_1989_1160	0	2.8	4	331	244	0.13	15.6	27	8.3	<0.2	0.50	746	818	4	3.68	4
105J_1989_1162	1	2.6	5	239	273	0.12	16.8	38	5.0	<0.2	0.35	352	478	7	7.46	8
105J_1989_1163	2	2.4	5	262	272	0.11	15.4	34	6.1	<0.2	0.35	450	514	10	6.84	7
105J_1989_1164	0	2.5	4	422	339	0.07	9.5	25	16.4	<0.2	0.22	4836	3041	6	4.06	4
105J_1989_1165	0	2.3	5	110	92	0.09	9.5	27	9.7	<0.2	0.33	533	472	2	1.58	1
105J_1989_1166	0	1.9	3	160	133	0.07	6.0	30	14.4	<0.2	0.40	939	845	<2	0.67	<1
105J_1989_1167	0	2.0	5	217	180	0.09	9.0	27	20.9	<0.2	0.31	732	610	<2	1.33	1
105J_1989_1168	0	1.8	1	129	122	0.08	5.4	15	44.3	<0.2	0.33	2782	2196	<2	0.56	<1
105J_1989_1169	0	2.6	5	114	111	0.14	13.4	30	9.1	<0.2	0.43	447	488	2	1.88	2
105J_1989_1170	0	2.4	4	171	140	0.09	10.0	28	16.3	<0.2	0.38	430	394	<2	1.19	<1
105J_1989_1171	0	1.7	3	164	162	0.08	5.8	21	23.6	<0.2	0.24	386	317	<2	0.47	<1
105J_1989_1172	0	1.8	2	205	211	0.07	6.5	18	29.5	<0.2	0.33	220	197	2	1.28	1
105J_1989_1174	0	0.9	<1	112	117	0.01	3.4	4	68.7	<0.2	0.16	1508	1433	2	2.10	<1
105J_1989_1175	0	0.4	<1	93	101	0.02	1.7	2	69.5	<0.2	0.15	1430	1310	<2	1.23	<1
105J_1989_1176	0	4.0	4	96	94	0.15	12.9	29	100.0	<0.2	0.78	1238	1033	<2	0.76	<1
105J_1989_1177	0	3.5	5	102	100	0.16	17.2	32	13.5	<0.2	0.71	234	257	<2	1.18	<1
105J_1989_1178	0	2.8	5	192	231	0.12	14.3	33	10.6	<0.2	0.48	452	473	2	2.90	3
105J_1989_1179	0	0.1	<1	74	82	0.02	<0.5	<2	87.7	<0.2	0.31	230	449	<2	1.22	<1
105J_1989_1180	0	2.2	5	186	207	0.12	15.3	32	13.1	<0.2	0.49	346	305	<2	1.29	<1
105J_1989_1182	1	2.9	4	93	103	0.11	12.3	31	10.5	<0.2	0.50	1229	1192	<2	1.06	<1
105J_1989_1183	2	2.9	4	93	85	0.10	10.7	24	14.8	<0.2	0.43	666	642	<2	1.33	<1
105J_1989_1184	0	2.1	6	109	124	0.08	14.2	43	6.5	<0.2	0.36	436	502	<2	2.23	2

Unique ID	Rep Stat	Na ICP-MS % 0.001	Na INAA pct 0.02	Ni AAS ppm 2	Ni ICP-MS ppm 0.1	P ICP-MS % 0.001	Pb AAS ppm 2	Pb ICP-MS ppm 0.01	Rb INAA ppm 5	S ICP-MS % 0.01	Sb HY-AAS ppm 0.2	Sb ICP-MS ppm 0.02	Sb INAA ppm 0.1	Sc ICP-MS ppm 0.1	Sc INAA ppm 0.2	Se ICP-MS ppm 0.1
105J_1989_1149	0	0.004	0.25	363	379.1	0.298	18	18.12	86	0.15	10.0	8.86	12.1	2.3	8.6	10.5
105J_1989_1150	0	0.007	0.34	60	50.9	0.230	11	8.80	53	0.32	0.9	1.78	2.4	1.1	5.4	9.6
105J_1989_1151	0	0.007	0.41	118	123.3	0.189	17	14.76	93	0.12	3.5	3.66	7.1	2.0	10.0	5.5
105J_1989_1152	0	0.006	0.41	86	86.5	0.166	13	12.67	90	0.12	3.0	3.00	5.3	2.7	10.0	5.5
105J_1989_1153	0	0.004	0.36	169	193.3	0.254	14	14.19	88	0.11	3.6	5.41	7.8	2.4	10.0	5.8
105J_1989_1154	0	0.004	0.38	101	130.0	0.194	14	12.16	90	0.12	3.6	4.93	7.3	1.7	9.4	5.8
105J_1989_1155	0	0.008	0.76	57	84.6	0.182	27	32.00	81	0.19	10.0	10.42	12.2	2.2	10.0	4.0
105J_1989_1156	0	0.005	0.43	136	159.9	0.232	15	13.20	89	0.20	10.0	7.28	10.7	1.5	10.0	15.3
105J_1989_1157	0	0.006	0.57	55	66.1	0.164	11	12.59	91	0.08	2.0	2.83	4.4	2.1	11.0	3.8
105J_1989_1158	0	0.005	0.36	114	137.0	0.190	16	15.32	100	0.11	3.8	4.78	7.2	3.1	10.0	5.8
105J_1989_1159	0	0.005	0.38	63	65.6	0.175	12	11.32	86	0.10	2.3	2.93	4.6	2.4	8.9	4.9
105J_1989_1160	0	0.006	0.42	43	46.6	0.152	9	10.34	96	0.06	1.4	1.77	2.9	2.6	7.9	2.4
105J_1989_1162	1	0.005	0.28	60	69.1	0.199	11	11.37	80	0.10	2.8	4.06	5.5	2.8	7.9	5.5
105J_1989_1163	2	0.004	0.30	65	71.2	0.189	12	10.71	89	0.10	2.7	3.82	5.4	2.5	8.3	5.1
105J_1989_1164	0	0.008	0.50	50	43.5	0.122	13	8.29	83	0.07	1.2	1.75	2.9	1.6	8.5	2.5
105J_1989_1165	0	0.008	0.49	20	18.3	0.132	10	7.85	91	0.14	0.6	0.78	1.5	2.4	8.8	0.9
105J_1989_1166	0	0.007	0.63	18	18.6	0.091	13	10.08	88	0.10	0.4	0.56	1.1	3.6	10.0	1.3
105J_1989_1167	0	0.006	0.41	28	26.9	0.108	17	14.68	92	0.11	1.0	1.28	2.2	3.0	9.2	3.2
105J_1989_1168	0	0.015	0.56	13	13.7	0.090	10	5.87	61	0.34	0.2	0.58	0.8	1.6	5.8	1.5
105J_1989_1169	0	0.008	0.50	24	24.5	0.122	14	14.15	89	0.04	1.4	1.63	2.8	2.6	9.3	1.4
105J_1989_1170	0	0.009	0.50	23	23.1	0.088	13	11.18	94	0.35	1.0	0.95	2.0	2.9	10.0	1.8
105J_1989_1171	0	0.011	0.41	15	16.2	0.081	10	7.69	87	0.40	0.4	0.63	1.2	2.1	7.8	2.1
105J_1989_1172	0	0.013	0.43	15	13.6	0.098	9	6.58	77	0.79	0.4	0.73	1.1	2.1	5.5	2.0
105J_1989_1174	0	0.005	0.07	7	10.8	0.154	4	1.25	8	1.58	0.2	0.52	0.5	1.2	1.7	1.1
105J_1989_1175	0	0.004	0.03	4	6.5	0.101	4	0.58	<5	0.38	<0.2	0.18	0.2	0.9	1.1	0.9
105J_1989_1176	0	0.024	0.63	25	25.2	0.108	16	12.38	84	0.13	1.0	1.04	1.6	2.9	8.7	1.6
105J_1989_1177	0	0.010	0.49	25	26.3	0.138	16	16.84	94	0.08	1.6	1.43	2.5	3.2	10.0	2.2
105J_1989_1178	0	0.005	0.39	28	27.9	0.154	13	12.03	100	0.03	2.0	1.71	3.2	2.8	10.0	2.0
105J_1989_1179	0	0.005	0.02	4	7.8	0.076	6	2.05	<5	0.63	0.3	0.61	0.5	0.3	0.3	7.6
105J_1989_1180	0	0.006	0.44	27	27.5	0.100	11	9.70	110	0.08	0.4	0.65	1.2	2.6	10.0	1.3
105J_1989_1182	1	0.015	0.93	19	21.8	0.124	12	12.68	100	0.07	0.7	0.70	1.5	2.5	10.0	1.2
105J_1989_1183	2	0.017	0.67	18	19.9	0.116	11	10.63	99	0.08	0.6	0.56	1.2	2.2	7.1	1.3
105J_1989_1184	0	0.006	0.45	26	32.3	0.155	11	11.47	120	0.07	0.9	0.73	1.7	2.2	11.0	1.1

Unique ID	Rep Stat	Sm INAA	Sn AAS	Sr ICP-MS	Ta INAA	Tb INAA	Te ICP-MS	Th ICP-MS	Th INAA	Ti ICP-MS	Tl ICP-MS	U ICP-MS	U INAA	U NADNC	V AAS	V ICP-MS
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.5	0.5	0.5	0.02	0.1	0.2	0.001	0.02	0.1	0.2	0.5	5	2
105J_1989_1149	0	6.0	4	108.8	0.7	1.1	0.19	0.5	6.7	0.004	0.70	6.8	12.0	11.7	158	202
105J_1989_1150	0	3.0	3	81.5	<0.5	0.6	0.02	0.3	3.1	0.003	0.26	3.0	5.1	5.8	40	35
105J_1989_1151	0	5.3	3	63.1	0.9	0.9	0.08	0.6	7.2	0.006	0.39	10.4	16.0	15.4	124	142
105J_1989_1152	0	4.8	4	63.8	0.9	0.8	0.10	1.2	7.4	0.004	0.34	4.3	7.9	7.5	80	93
105J_1989_1153	0	6.1	2	94.6	0.8	0.9	0.11	0.7	7.3	0.005	0.51	14.0	17.0	16.7	138	168
105J_1989_1154	0	5.3	3	85.9	0.8	0.9	0.10	0.6	6.5	0.006	0.42	12.9	16.0	15.4	117	141
105J_1989_1155	0	5.3	3	101.9	0.8	0.8	0.11	0.7	6.4	0.007	0.38	10.2	11.0	10.6	63	79
105J_1989_1156	0	5.6	1	86.5	0.7	1.0	0.13	0.3	6.6	0.006	0.79	21.7	24.7	25.1	213	290
105J_1989_1157	0	5.9	<1	68.8	0.9	1.0	0.10	0.8	8.1	0.007	0.28	5.5	8.6	7.9	69	84
105J_1989_1158	0	5.8	2	98.6	0.9	0.9	0.12	1.5	7.7	0.008	0.42	9.2	12.0	12.6	109	138
105J_1989_1159	0	7.5	1	77.9	1.0	1.0	0.06	2.3	10.0	0.010	0.29	6.9	11.0	11.5	85	124
105J_1989_1160	0	5.2	3	62.5	1.0	0.8	0.05	2.2	8.3	0.009	0.19	2.0	5.8	5.3	50	63
105J_1989_1162	1	6.9	1	85.8	1.0	0.8	0.10	3.1	8.9	0.011	0.29	6.1	9.5	9.3	79	120
105J_1989_1163	2	6.2	4	83.3	0.9	0.8	0.07	2.6	8.2	0.009	0.28	6.4	10.0	9.1	103	118
105J_1989_1164	0	4.8	3	54.3	0.9	0.8	0.05	0.8	7.0	0.006	0.24	2.9	6.1	5.6	69	61
105J_1989_1165	0	4.6	3	48.9	1.0	0.6	0.02	2.5	8.2	0.005	0.10	1.6	4.2	3.9	37	36
105J_1989_1166	0	4.5	3	74.4	1.0	0.7	0.02	2.5	9.1	0.002	0.10	0.7	2.8	2.9	28	23
105J_1989_1167	0	4.4	6	72.6	0.8	0.6	0.03	2.5	8.0	0.003	0.18	2.3	5.0	5.0	41	39
105J_1989_1168	0	2.2	6	145.1	0.6	<0.5	0.03	1.3	5.2	0.003	0.09	1.5	2.8	3.0	29	21
105J_1989_1169	0	5.0	3	50.9	1.1	0.8	0.03	3.1	9.0	0.008	0.14	1.1	3.7	3.5	41	42
105J_1989_1170	0	4.8	5	45.5	1.1	0.8	0.03	3.0	8.9	0.003	0.14	1.5	4.0	4.2	37	35
105J_1989_1171	0	3.5	2	52.9	0.8	<0.5	0.02	1.9	6.6	0.002	0.18	1.1	3.1	3.3	23	23
105J_1989_1172	0	3.2	4	59.0	0.8	0.5	0.02	1.9	6.3	0.004	0.12	1.3	3.4	3.6	29	26
105J_1989_1174	0	1.2	5	125.4	<0.5	<0.5	0.02	0.6	1.2	0.006	0.07	0.7	0.8	1.0	21	14
105J_1989_1175	0	0.6	5	90.2	<0.5	<0.5	<0.02	0.4	0.5	0.003	0.02	0.5	0.6	0.7	17	10
105J_1989_1176	0	4.5	6	94.7	1.3	0.7	0.03	2.9	9.1	0.018	0.15	1.2	3.7	4.1	47	47
105J_1989_1177	0	5.4	3	65.8	1.3	0.9	0.04	4.4	10.0	0.010	0.14	1.1	4.1	4.0	43	47
105J_1989_1178	0	5.7	2	52.3	1.3	0.9	0.02	3.3	11.0	0.005	0.16	2.4	6.2	5.7	44	54
105J_1989_1179	0	<0.1	7	91.9	<0.5	<0.5	<0.02	0.1	<0.2	0.001	0.04	7.2	6.1	7.7	7	2
105J_1989_1180	0	5.4	2	40.9	1.6	0.7	0.02	3.2	11.0	0.003	0.14	1.2	4.6	4.7	29	25
105J_1989_1182	1	5.2	3	67.0	0.8	0.6	0.02	3.4	12.0	0.004	0.08	1.5	4.1	4.1	30	27
105J_1989_1183	2	4.1	3	72.3	0.7	0.7	0.03	2.3	10.0	0.003	0.06	1.6	3.8	4.1	32	27
105J_1989_1184	0	7.5	1	76.0	1.8	1.0	0.03	3.9	14.0	0.002	0.14	3.2	8.4	7.1	21	19

Unique ID	Rep Stat	W ICP-MS ppm 0.1	W INAA ppm 1	wt INAA g 0.01	Yb INAA ppm 2	Zn AAS ppm 2	Zn ICP-MS ppm 0.1
105J_1989_1149	0	0.1	<1	36.09	3	4525	4405.1
105J_1989_1150	0	<0.1	<1	13.82	<2	132	113.5
105J_1989_1151	0	0.3	<1	34.39	3	950	834.0
105J_1989_1152	0	<0.1	<1	37.29	2	608	615.0
105J_1989_1153	0	0.1	1	36.52	3	1410	1635.9
105J_1989_1154	0	<0.1	1	29.16	3	915	878.6
105J_1989_1155	0	0.1	1	38.18	3	367	703.0
105J_1989_1156	0	0.1	<1	27.42	3	915	896.5
105J_1989_1157	0	<0.1	1	29.84	3	301	359.9
105J_1989_1158	0	0.1	<1	29.16	2	985	1100.6
105J_1989_1159	0	0.3	1	44.41	3	439	498.2
105J_1989_1160	0	<0.1	1	29.74	<2	262	306.7
105J_1989_1162	1	0.1	2	22.37	2	407	510.4
105J_1989_1163	2	0.1	2	20.76	3	467	527.2
105J_1989_1164	0	0.1	<1	30.17	2	297	280.5
105J_1989_1165	0	<0.1	1	36.90	2	143	144.7
105J_1989_1166	0	<0.1	<1	30.01	<2	107	99.4
105J_1989_1167	0	<0.1	<1	26.23	<2	180	165.3
105J_1989_1168	0	<0.1	<1	15.03	<2	145	136.2
105J_1989_1169	0	0.1	<1	39.05	2	135	138.1
105J_1989_1170	0	<0.1	<1	26.67	2	152	148.3
105J_1989_1171	0	0.1	1	24.27	<2	120	113.3
105J_1989_1172	0	<0.1	<1	16.46	<2	120	113.5
105J_1989_1174	0	<0.1	<1	12.06	<2	113	103.3
105J_1989_1175	0	<0.1	<1	12.90	<2	146	138.4
105J_1989_1176	0	<0.1	2	24.09	<2	131	124.4
105J_1989_1177	0	<0.1	1	28.59	<2	123	131.5
105J_1989_1178	0	<0.1	<1	30.69	2	165	174.9
105J_1989_1179	0	<0.1	<1	9.38	<2	35	67.3
105J_1989_1180	0	<0.1	<1	29.62	2	108	109.8
105J_1989_1182	1	<0.1	<1	23.40	<2	92	100.4
105J_1989_1183	2	<0.1	2	13.55	<2	86	90.1
105J_1989_1184	0	<0.1	<1	32.44	2	206	213.5

Unique ID	Rep Stat	Ag AAS	Ag ICP-MS	Al ICP-MS	As HY-AAS	As ICP-MS	As INAA	Au INAA	Au1 INAA	Au1_wt -	B ICP-MS	Ba ICP-MS	Ba INAA	Bi ICP-MS	Br INAA	Ca ICP-MS
		ppm	ppb	%	ppm	ppm	ppm	ppb	ppb	g	ppm	ppm	ppm	ppm	ppm	%
		0.2	2	0.01	1	0.1	0.5	2	2	0.01	1	0.5	50	0.02	0.5	0.01
105J_1989_1185	0	0.3	208	0.34	5	8.4	8.4	3			11	99.8	220	0.06	38.0	2.53
105J_1989_1186	0	<0.2	195	0.98	5	7.9	12.0	6			3	233.2	2100	0.19	4.0	0.53
105J_1989_1188	0	0.5	350	1.24	6	8.7	11.0	13			7	892.7	3000	0.17	4.6	1.41
105J_1989_1189	0	0.3	425	1.42	80	131.2	159.0	<2			4	430.4	2400	0.70	3.1	0.65
105J_1989_1190	0	<0.2	154	1.08	3	4.8	6.0	6			5	412.1	1900	0.14	4.8	1.76
105J_1989_1191	0	<0.2	124	1.14	11	14.9	21.0	<2			2	206.4	1500	0.55	3.6	0.63
105J_1989_1192	0	0.9	564	1.34	80	127.9	163.0	9			4	425.1	2300	1.24	4.6	0.73
105J_1989_1193	0	0.5	574	1.24	40	53.4	60.8	9			4	577.4	2800	0.58	7.1	0.72
105J_1989_1194	0	0.4	547	1.77	50	75.8	82.3	10			2	326.7	2400	0.34	7.6	0.38
105J_1989_1195	0	0.6	697	0.67	10	13.2	16.0	29	19	35.30	3	1108.3	10300	0.26	1.1	0.76
105J_1989_1196	0	0.8	516	0.90	20	29.5	34.0	11			4	664.0	3300	0.31	3.1	0.67
105J_1989_1197	0	<0.2	265	1.03	4	10.4	14.0	6			2	175.6	1300	0.26	3.9	0.68
105J_1989_1198	0	0.3	233	0.84	7	9.8	13.0	4			3	234.0	1900	0.28	5.9	0.68
105J_1989_1199	0	<0.2	178	0.74	80	102.7	118.0	<2			4	294.0	2000	0.11	6.6	1.12
105J_1989_1200	0	0.4	204	0.84	4	6.7	7.8	5			3	280.1	1700	0.15	3.0	0.68
105J_1989_1202	1	0.2	251	0.97	6	9.2	12.0	4			2	362.9	2000	0.22	1.7	0.57
105J_1989_1204	2	0.2	263	1.00	5	10.0	10.0	4			3	372.3	1700	0.24	1.2	0.59
105J_1989_1205	0	<0.2	322	0.85	8	12.8	14.0	6			4	366.3	2000	0.26	2.9	0.74
105J_1989_1206	0	0.3	121	0.85	5	8.4	9.1	5			2	308.7	1700	0.14	4.2	0.72
105J_1989_1207	0	0.2	154	1.28	7	11.2	12.0	3			2	285.2	2100	0.66	1.3	0.60
105J_1989_1208	0	0.6	598	1.71	60	86.1	81.3	8			3	614.6	2800	1.69	8.0	0.81
105J_1989_1209	0	0.3	256	1.17	3	4.9	5.3	6			3	350.5	1700	0.17	3.1	1.06
105J_1989_1210	0	1.0	855	3.04	12	25.5	23.0	20	19	8.42	6	611.2	1200	0.17	12.0	1.21
105J_1989_1211	0	0.3	201	0.70	62	88.8	69.5	<2			5	162.7	280	0.08	18.0	2.21
105J_1989_1212	0	1.3	1170	0.97	<1	<0.1	2.3	12			4	127.3	670	0.08	11.0	1.24
105J_1989_1213	0	0.4	246	1.29	4	5.4	6.5	9			6	336.8	2100	0.12	6.1	0.97
105J_1989_1214	0	0.2	456	1.12	10	15.4	17.0	10			5	402.7	2700	0.13	4.2	0.85
105J_1989_1215	0	0.6	336	1.85	70	91.5	93.7	10			3	290.5	1900	0.61	6.8	1.11
105J_1989_1216	0	<0.2	276	1.61	4	6.2	7.2	10			4	344.1	2000	0.17	3.3	0.88
105J_1989_1217	0	<0.2	293	3.82	7	10.5	11.0	7			4	305.6	1900	1.60	4.2	1.99
105J_1989_1218	0	<0.2	284	1.86	15	26.3	23.0	7			2	261.5	1300	0.68	7.3	1.26
105J_1989_1219	0	0.2	273	1.28	5	7.6	7.9	12			5	254.8	2300	0.15	2.1	1.10
105J_1989_1220	0	<0.2	237	1.38	11	16.6	15.0	8			4	332.4	1800	0.34	4.4	0.99

Unique ID	Rep Stat	Cd AAS	Cd ICP-MS	Ce INAA	Co AAS	Co ICP-MS	Co INAA	Cr ICP-MS	Cr INAA	Cs INAA	Cu AAS	Cu ICP-MS	Eu INAA	F ISE	Fe AAS	Fe ICP-MS	Fe INAA
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	pct	%	pct
		0.2	0.01	5	2	0.1	5	0.5	20	0.5	2	0.01	1	20	0.02	0.01	0.2
105J_1989_1185	0	1.0	1.54	6	7	6.2	5	5.1	<20	0.7	48	44.64	<1	133	2.31	2.17	2.2
105J_1989_1186	0	0.3	0.81	84	9	10.6	12	12.6	61	5.3	34	31.45	1	572	2.55	2.51	3.5
105J_1989_1188	0	0.5	1.03	75	9	9.6	11	16.3	67	5.2	59	59.46	1	1000	2.43	2.57	3.0
105J_1989_1189	0	4.7	5.56	69	10	12.9	15	18.7	54	5.8	41	42.38	<1	442	2.52	2.54	2.9
105J_1989_1190	0	0.8	0.87	83	8	9.8	12	17.0	75	4.0	31	31.60	1	661	2.25	2.29	2.7
105J_1989_1191	0	0.6	0.86	83	8	8.6	12	13.3	56	3.9	21	21.80	1	438	2.17	2.03	2.8
105J_1989_1192	0	3.0	3.53	79	8	10.3	11	26.5	85	7.2	45	49.60	1	552	4.36	4.45	5.5
105J_1989_1193	0	12.9	15.80	85	11	12.2	13	23.6	79	8.0	60	62.62	<1	538	3.07	2.93	3.4
105J_1989_1194	0	4.7	6.14	110	54	70.6	70	13.1	95	12.0	125	143.22	2	442	4.65	4.97	4.9
105J_1989_1195	0	3.3	4.05	67	11	12.6	12	14.3	95	8.1	104	119.52	1	701	2.61	2.78	3.3
105J_1989_1196	0	3.0	3.18	71	12	11.5	12	15.9	81	8.2	74	68.20	<1	590	2.74	2.57	2.9
105J_1989_1197	0	1.3	1.71	68	5	4.1	5	18.6	68	8.5	31	29.60	<1	379	1.93	1.62	2.1
105J_1989_1198	0	1.6	1.68	64	6	6.5	8	12.9	49	4.3	38	34.68	<1	565	1.77	1.59	2.2
105J_1989_1199	0	9.8	8.78	61	9	8.8	11	10.4	49	5.4	19	16.66	<1	544	2.12	1.82	2.5
105J_1989_1200	0	0.9	1.08	50	8	6.5	6	12.2	54	3.4	23	28.81	<1	541	1.85	1.55	1.8
105J_1989_1202	1	1.3	1.23	63	9	9.2	10	15.3	82	4.6	48	41.56	<1	511	2.52	2.05	2.7
105J_1989_1204	2	1.4	1.27	63	10	9.4	7	15.8	69	4.5	50	43.14	<1	502	2.54	2.09	2.5
105J_1989_1205	0	1.5	1.28	54	9	7.9	10	12.5	68	5.3	48	40.33	<1	608	2.33	1.87	2.5
105J_1989_1206	0	1.2	1.12	73	9	7.8	9	12.3	54	3.4	20	18.88	<1	567	2.10	1.88	2.4
105J_1989_1207	0	1.1	1.11	71	9	9.1	10	15.0	45	4.6	28	25.65	<1	510	2.44	2.21	2.8
105J_1989_1208	0	8.3	6.85	62	14	13.6	14	23.7	71	7.3	62	51.43	<1	446	4.39	4.06	4.6
105J_1989_1209	0	1.5	1.09	57	6	6.1	8	18.1	50	3.3	46	40.24	1	608	2.01	1.62	2.0
105J_1989_1210	0	3.5	3.48	98	7	9.0	8	25.0	78	4.2	131	125.38	<1	508	3.68	3.33	3.8
105J_1989_1211	0	4.2	3.61	13	<2	2.2	<5	7.4	<20	0.7	32	27.77	<1	97	3.07	3.47	3.3
105J_1989_1212	0	2.6	1.91	20	2	2.1	<5	7.1	<20	2.3	100	85.07	<1	279	0.78	0.60	1.1
105J_1989_1213	0	1.5	1.18	58	11	8.2	9	17.2	54	4.0	41	34.74	<1	782	2.40	2.16	2.6
105J_1989_1214	0	2.5	2.24	54	11	9.4	10	19.4	79	4.1	51	44.27	<1	744	2.77	2.64	3.2
105J_1989_1215	0	1.3	1.15	65	12	10.6	13	25.1	79	4.7	48	40.51	<1	886	3.03	2.78	3.4
105J_1989_1216	0	1.2	1.23	69	11	9.6	12	23.5	95	3.9	22	44.60	<1	691	2.29	2.09	2.7
105J_1989_1217	0	1.5	1.25	78	16	14.2	15	42.5	66	6.9	61	54.72	<1	955	3.27	3.24	3.9
105J_1989_1218	0	1.4	1.31	58	9	11.2	9	24.5	70	4.0	39	36.91	<1	456	2.86	2.71	3.4
105J_1989_1219	0	1.0	0.91	71	10	9.3	13	18.6	64	4.4	61	54.60	<1	786	2.50	2.38	3.1
105J_1989_1220	0	1.8	1.35	76	10	9.9	10	19.7	62	3.5	44	38.96	<1	666	2.43	2.26	2.7

Unique ID	Rep Stat	Ga ICP-MS ppm 0.2	Hf INAA ppm 1	Hg CV-AAS ppb 10	Hg ICP-MS ppb 5	K ICP-MS % 0.01	La ICP-MS ppm 0.5	La INAA ppm 2	LOI GRAV pct 1.0	Lu INAA ppm 0.2	Mg ICP-MS % 0.01	Mn AAS ppm 5	Mn ICP-MS ppm 1	Mo AAS ppm 2	Mo ICP-MS ppm 0.01	Mo INAA ppm 1
105J_1989_1185	0	0.7	<1	102	101	0.03	1.8	4	78.6	<0.2	0.27	703	628	10	7.75	7
105J_1989_1186	0	2.4	6	109	115	0.07	13.3	41	8.9	<0.2	0.44	273	295	<2	1.14	<1
105J_1989_1188	0	3.1	8	220	297	0.19	19.0	39	9.4	<0.2	0.91	177	228	4	2.90	2
105J_1989_1189	0	4.0	5	96	107	0.15	16.9	32	10.5	<0.2	0.48	192	237	4	3.86	3
105J_1989_1190	0	3.1	8	115	149	0.10	18.3	39	11.8	<0.2	0.75	185	213	<2	1.17	<1
105J_1989_1191	0	3.2	7	68	71	0.11	14.9	38	8.3	<0.2	0.40	586	619	<2	1.17	<1
105J_1989_1192	0	4.3	5	90	109	0.16	22.3	37	11.1	<0.2	0.60	433	497	11	10.56	11
105J_1989_1193	0	3.7	6	93	100	0.19	28.1	40	8.0	<0.2	0.59	585	678	7	6.93	7
105J_1989_1194	0	2.8	7	84	88	0.11	24.3	46	12.7	<0.2	0.26	638	799	6	7.02	5
105J_1989_1195	0	1.9	7	180	250	0.14	8.5	33	5.2	<0.2	0.38	222	290	6	7.15	8
105J_1989_1196	0	2.8	5	139	153	0.13	15.2	33	8.0	<0.2	0.40	364	401	4	4.72	5
105J_1989_1197	0	3.1	3	192	212	0.07	10.5	34	21.2	<0.2	0.26	70	69	<2	1.35	<1
105J_1989_1198	0	2.5	5	93	80	0.10	11.0	27	9.6	<0.2	0.43	260	265	4	1.75	2
105J_1989_1199	0	2.2	6	112	115	0.09	10.1	27	14.2	<0.2	0.33	1037	879	5	4.25	4
105J_1989_1200	0	2.4	5	93	94	0.08	11.7	26	12.4	<0.2	0.39	441	360	<2	1.24	<1
105J_1989_1202	1	2.6	6	137	129	0.10	14.6	41	11.0	<0.2	0.43	368	319	<2	1.54	3
105J_1989_1204	2	2.6	6	129	128	0.10	15.2	37	11.4	<0.2	0.44	381	328	<2	1.65	4
105J_1989_1205	0	2.2	6	133	128	0.10	12.8	34	11.4	<0.2	0.37	563	473	2	2.61	5
105J_1989_1206	0	2.2	6	87	67	0.09	12.6	38	9.4	<0.2	0.39	1710	1758	<2	1.45	4
105J_1989_1207	0	3.2	5	68	64	0.10	16.2	38	6.5	<0.2	0.49	370	375	<2	1.21	3
105J_1989_1208	0	4.4	4	99	101	0.11	16.5	35	16.5	<0.2	0.50	607	557	7	6.58	10
105J_1989_1209	0	3.1	4	145	142	0.13	14.1	32	17.1	<0.2	0.61	160	136	<2	1.32	4
105J_1989_1210	0	3.8	2	684	725	0.14	44.3	48	43.9	<0.2	0.53	178	162	7	8.59	9
105J_1989_1211	0	1.4	1	141	137	0.04	4.4	7	63.9	<0.2	0.19	1116	850	<2	1.42	4
105J_1989_1212	0	1.7	2	1064	1083	0.05	19.5	26	32.7	<0.2	0.23	49	23	<2	0.84	3
105J_1989_1213	0	3.1	4	209	207	0.14	19.1	33	17.8	<0.2	0.86	635	576	<2	1.38	3
105J_1989_1214	0	3.1	4	262	274	0.15	20.5	35	13.2	<0.2	0.70	1566	1671	2	3.97	7
105J_1989_1215	0	4.9	5	156	137	0.16	18.1	42	11.7	<0.2	0.99	405	387	<2	1.36	3
105J_1989_1216	0	4.3	6	179	179	0.18	18.9	44	9.5	<0.2	0.75	300	326	<2	1.53	3
105J_1989_1217	0	10.5	5	49	43	0.54	19.0	47	10.4	<0.2	2.07	378	394	<2	1.02	4
105J_1989_1218	0	5.4	4	87	78	0.12	15.0	36	17.4	<0.2	0.76	206	233	<2	0.92	3
105J_1989_1219	0	3.5	4	217	204	0.15	21.6	41	8.7	<0.2	0.93	346	359	<2	1.92	4
105J_1989_1220	0	4.0	5	110	100	0.16	20.5	39	9.5	<0.2	0.81	336	344	<2	1.27	3

Unique ID	Rep Stat	Na ICP-MS % 0.001	Na INAA pct 0.02	Ni AAS ppm 2	Ni ICP-MS ppm 0.1	P ICP-MS % 0.001	Pb AAS ppm 2	Pb ICP-MS ppm 0.01	Rb INAA ppm 5	S ICP-MS % 0.01	Sb HY-AAS ppm 0.2	Sb ICP-MS ppm 0.02	Sb INAA ppm 0.1	Sc ICP-MS ppm 0.1	Sc INAA ppm 0.2	Se ICP-MS ppm 0.1
105J_1989_1185	0	0.004	0.05	53	51.9	0.179	6	2.68	9	2.54	0.3	0.85	0.9	0.7	2.0	3.4
105J_1989_1186	0	0.006	0.55	21	25.9	0.110	14	13.21	120	0.05	0.5	0.57	1.4	2.4	12.0	1.3
105J_1989_1188	0	0.006	0.38	27	31.2	0.241	15	12.83	120	0.07	1.0	1.21	2.1	3.8	10.0	1.7
105J_1989_1189	0	0.012	0.79	41	44.0	0.125	12	13.54	110	0.04	2.1	2.22	3.8	3.3	10.0	18.8
105J_1989_1190	0	0.006	0.61	21	23.4	0.159	12	11.78	98	0.06	0.4	0.76	1.2	3.9	10.0	1.1
105J_1989_1191	0	0.009	0.77	18	19.7	0.096	11	12.29	100	0.04	0.6	0.94	2.0	2.5	10.0	1.0
105J_1989_1192	0	0.012	0.38	53	56.3	0.239	14	16.98	110	0.08	2.7	3.69	6.6	3.2	10.0	3.4
105J_1989_1193	0	0.009	0.39	114	116.4	0.171	18	17.63	120	0.09	3.0	4.72	8.0	3.1	11.0	4.7
105J_1989_1194	0	0.006	0.31	168	188.2	0.114	26	34.82	170	0.10	3.6	4.66	10.0	5.2	14.0	3.4
105J_1989_1195	0	0.002	0.12	61	65.3	0.173	17	16.34	110	0.09	2.7	3.26	5.5	3.5	11.0	5.7
105J_1989_1196	0	0.005	0.40	50	49.5	0.166	28	24.32	110	0.05	2.5	3.01	5.4	3.0	10.0	2.2
105J_1989_1197	0	0.007	0.58	19	21.3	0.088	20	16.34	110	0.15	0.5	0.91	1.9	2.6	11.0	5.5
105J_1989_1198	0	0.007	0.50	28	28.1	0.132	15	12.09	88	0.06	1.7	1.58	2.8	2.2	7.9	2.1
105J_1989_1199	0	0.007	0.52	59	57.1	0.210	14	11.24	87	0.06	1.5	2.67	4.0	1.6	7.5	1.6
105J_1989_1200	0	0.007	0.48	20	21.7	0.119	12	9.87	86	0.07	0.3	0.79	1.4	2.0	7.1	1.5
105J_1989_1202	1	0.005	0.60	34	30.3	0.121	14	13.66	100	0.03	1.5	1.19	2.4	2.9	10.0	1.2
105J_1989_1204	2	0.006	0.54	36	30.8	0.122	13	13.80	96	0.02	1.7	1.24	2.1	2.8	9.2	1.4
105J_1989_1205	0	0.008	0.54	34	28.6	0.152	10	11.77	78	0.06	2.1	1.61	2.8	2.4	8.5	2.2
105J_1989_1206	0	0.006	0.58	26	23.4	0.168	7	8.68	77	0.04	1.0	0.84	1.4	1.8	7.5	1.0
105J_1989_1207	0	0.011	0.76	32	27.9	0.112	10	12.10	85	0.02	1.8	1.20	2.1	2.7	9.3	1.0
105J_1989_1208	0	0.014	0.65	72	64.4	0.126	14	17.88	89	0.09	8.0	3.78	6.2	3.1	10.0	6.8
105J_1989_1209	0	0.014	0.49	25	22.3	0.132	10	10.32	78	0.31	0.8	0.76	1.1	2.8	8.0	2.0
105J_1989_1210	0	0.006	0.24	41	36.4	0.253	7	11.36	55	0.40	2.3	3.18	4.1	6.7	14.0	5.1
105J_1989_1211	0	0.013	0.25	8	6.9	0.114	3	3.50	<5	0.51	0.9	1.01	0.8	1.1	1.8	7.4
105J_1989_1212	0	0.027	1.20	24	19.5	0.103	3	4.74	39	0.15	0.5	0.64	0.8	2.0	6.0	5.1
105J_1989_1213	0	0.007	0.49	30	25.2	0.128	6	9.22	89	0.08	0.9	0.78	1.3	3.4	7.9	1.6
105J_1989_1214	0	0.007	0.49	41	36.0	0.182	8	10.47	91	0.08	2.2	1.70	2.8	3.3	8.8	2.0
105J_1989_1215	0	0.051	0.57	32	26.1	0.149	23	26.95	82	0.06	2.1	1.01	1.7	3.6	9.4	2.1
105J_1989_1216	0	0.034	0.61	33	31.1	0.159	8	12.19	83	0.06	1.0	0.90	1.5	3.4	10.0	1.5
105J_1989_1217	0	0.176	0.71	34	31.1	0.149	25	29.80	85	0.09	1.0	0.68	1.4	5.7	10.0	1.0
105J_1989_1218	0	0.041	0.78	25	25.4	0.126	30	29.11	57	0.14	1.4	1.53	2.1	3.6	10.0	2.0
105J_1989_1219	0	0.006	0.50	32	30.0	0.197	10	11.35	100	0.09	1.1	1.04	1.6	3.3	10.0	1.2
105J_1989_1220	0	0.023	0.59	30	27.0	0.153	16	18.11	82	0.09	1.3	1.28	1.8	3.4	9.0	1.2

Unique ID	Rep Stat	Sm INAA	Sn AAS	Sr ICP-MS	Ta INAA	Tb INAA	Te ICP-MS	Th ICP-MS	Th INAA	Ti ICP-MS	Tl ICP-MS	U ICP-MS	U INAA	U NADNC	V AAS	V ICP-MS
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.5	0.5	0.5	0.02	0.1	0.2	0.001	0.02	0.1	0.2	0.5	5	2
105J_1989_1185	0	0.5	4	50.1	<0.5	<0.5	<0.02	0.6	1.5	0.002	0.06	15.0	14.0	15.2	18	10
105J_1989_1186	0	6.7	3	46.7	1.4	1.1	0.02	4.6	14.0	0.002	0.10	2.4	6.2	6.0	22	18
105J_1989_1188	0	6.5	3	68.4	1.2	0.9	0.03	4.9	13.0	0.004	0.16	1.3	5.8	5.0	34	36
105J_1989_1189	0	5.7	2	54.5	1.1	0.9	0.04	4.4	12.0	0.023	0.25	2.6	5.1	5.0	111	118
105J_1989_1190	0	6.7	6	86.5	1.4	0.9	<0.02	4.5	13.0	0.005	0.08	0.8	4.2	4.0	30	21
105J_1989_1191	0	6.7	3	38.7	1.5	0.9	0.04	3.2	13.0	0.016	0.11	2.7	6.1	5.6	35	28
105J_1989_1192	0	6.2	3	70.3	1.2	1.0	0.08	5.9	12.0	0.034	0.46	7.7	12.0	11.7	132	156
105J_1989_1193	0	6.8	2	65.9	1.4	1.0	0.06	5.4	14.0	0.016	0.44	6.4	11.0	9.6	116	144
105J_1989_1194	0	11.2	1	53.0	1.5	1.7	0.04	7.4	20.2	0.002	0.29	8.2	13.0	12.4	31	21
105J_1989_1195	0	5.9	3	73.9	1.3	1.0	0.09	2.9	11.0	0.002	0.27	4.3	8.6	8.3	57	70
105J_1989_1196	0	5.8	4	62.7	1.4	0.8	0.05	3.5	11.0	0.005	0.23	2.5	6.1	6.2	55	66
105J_1989_1197	0	5.1	2	47.1	1.2	0.7	0.03	3.3	11.0	0.003	0.22	2.1	4.8	5.1	29	35
105J_1989_1198	0	4.8	3	51.1	0.9	0.7	0.03	2.8	10.0	0.010	0.19	3.9	7.1	6.9	53	60
105J_1989_1199	0	4.8	4	47.8	0.8	0.6	0.02	2.1	8.5	0.008	0.15	2.2	5.3	4.7	34	39
105J_1989_1200	0	4.3	2	45.6	0.9	0.5	0.04	3.0	8.7	0.003	0.11	2.0	4.3	4.7	30	31
105J_1989_1202	1	6.0	4	42.5	1.0	1.0	0.03	4.8	12.0	0.004	0.11	2.1	5.2	4.9	39	36
105J_1989_1204	2	5.4	5	43.8	1.2	1.0	0.04	5.0	11.0	0.003	0.11	2.1	4.6	4.9	39	36
105J_1989_1205	0	5.0	8	55.5	1.0	0.7	0.05	3.0	9.0	0.004	0.15	2.5	5.1	5.1	47	45
105J_1989_1206	0	5.6	5	64.1	1.3	0.6	0.02	3.2	9.0	0.005	0.09	1.9	4.3	4.3	29	29
105J_1989_1207	0	5.6	8	52.9	1.0	0.7	0.03	4.8	10.0	0.017	0.15	1.4	3.7	3.8	44	41
105J_1989_1208	0	5.3	10	76.4	0.9	0.8	0.09	3.4	10.0	0.017	0.24	5.9	7.5	8.2	147	139
105J_1989_1209	0	4.3	8	53.7	1.0	0.8	0.03	3.4	8.4	0.009	0.13	2.4	4.4	5.1	43	32
105J_1989_1210	0	10.7	8	61.9	<0.5	1.8	0.05	2.8	8.9	0.003	0.26	11.1	11.0	13.3	75	80
105J_1989_1211	0	1.0	7	81.2	<0.5	<0.5	<0.02	0.5	1.8	0.012	0.12	3.9	3.4	4.3	17	15
105J_1989_1212	0	4.3	5	44.1	1.1	0.9	<0.02	0.3	5.3	0.008	0.12	6.4	7.1	8.9	14	11
105J_1989_1213	0	5.0	8	60.1	0.8	0.9	0.02	3.6	10.0	0.005	0.13	1.3	4.2	4.3	35	32
105J_1989_1214	0	4.9	9	70.7	0.9	0.6	0.04	4.2	8.9	0.004	0.22	2.6	5.7	5.5	65	59
105J_1989_1215	0	5.8	6	91.3	1.2	1.0	0.03	4.5	10.0	0.038	0.15	1.9	4.3	4.5	54	43
105J_1989_1216	0	6.1	6	71.9	1.2	0.8	0.02	3.0	10.0	0.023	0.16	1.4	4.3	4.3	46	41
105J_1989_1217	0	6.1	7	241.3	0.7	0.9	0.04	6.4	12.0	0.108	0.26	1.3	3.6	3.8	72	66
105J_1989_1218	0	5.2	7	108.6	1.2	0.8	0.02	2.6	8.0	0.051	0.12	1.3	3.3	3.6	51	44
105J_1989_1219	0	5.5	6	70.9	1.1	0.8	0.05	5.0	10.0	0.005	0.12	1.4	4.7	4.7	40	38
105J_1989_1220	0	5.9	7	79.4	1.1	0.8	0.02	4.9	10.0	0.025	0.13	1.3	3.9	3.9	43	38

Unique ID	Rep Stat	W ICP-MS ppm 0.1	W INAA ppm 1	wt INAA g 0.01	Yb INAA ppm 2	Zn AAS ppm 2	Zn ICP-MS ppm 0.1
105J_1989_1185	0	<0.1	1	15.55	<2	254	252.5
105J_1989_1186	0	<0.1	1	30.62	2	130	137.3
105J_1989_1188	0	<0.1	<1	31.61	2	148	154.9
105J_1989_1189	0	0.3	2	29.32	<2	276	313.0
105J_1989_1190	0	<0.1	1	30.04	<2	103	106.5
105J_1989_1191	0	1.6	1	32.37	2	93	94.9
105J_1989_1192	0	0.8	2	32.30	3	470	481.1
105J_1989_1193	0	0.3	2	29.78	3	1520	1748.6
105J_1989_1194	0	<0.1	<1	32.33	3	670	668.8
105J_1989_1195	0	<0.1	2	43.47	3	376	438.1
105J_1989_1196	0	<0.1	2	39.01	3	334	374.1
105J_1989_1197	0	<0.1	1	23.80	<2	131	131.1
105J_1989_1198	0	0.7	1	34.44	<2	158	151.4
105J_1989_1199	0	0.3	<1	34.65	2	1305	1297.3
105J_1989_1200	0	<0.1	<1	14.95	<2	109	119.7
105J_1989_1202	1	<0.1	1	34.77	2	152	128.8
105J_1989_1204	2	<0.1	2	16.15	3	152	138.1
105J_1989_1205	0	<0.1	1	35.76	2	200	169.1
105J_1989_1206	0	<0.1	1	37.19	<2	158	141.2
105J_1989_1207	0	0.1	1	39.68	3	158	141.8
105J_1989_1208	0	0.3	2	25.21	4	674	537.9
105J_1989_1209	0	<0.1	<1	19.93	3	136	132.4
105J_1989_1210	0	0.1	<1	17.65	4	202	161.6
105J_1989_1211	0	0.1	<1	12.03	<2	135	121.0
105J_1989_1212	0	<0.1	<1	17.28	<2	46	35.0
105J_1989_1213	0	<0.1	1	25.25	2	156	139.5
105J_1989_1214	0	<0.1	1	28.86	<2	233	204.7
105J_1989_1215	0	0.1	2	33.61	3	167	141.8
105J_1989_1216	0	<0.1	1	36.35	3	145	138.4
105J_1989_1217	0	0.2	1	30.93	3	197	171.5
105J_1989_1218	0	0.2	2	27.89	2	191	175.1
105J_1989_1219	0	<0.1	1	40.80	3	151	137.6
105J_1989_1220	0	0.1	1	33.35	2	156	149.1

Unique ID	Rep Stat	Ag AAS	Ag ICP-MS	Al ICP-MS	As HY-AAS	As ICP-MS	As INAA	Au INAA	Au1 INAA	Au1_wt -	B ICP-MS	Ba ICP-MS	Ba INAA	Bi ICP-MS	Br INAA	Ca ICP-MS
		ppm	ppb	%	ppm	ppm	ppm	ppb	ppb	g	ppm	ppm	ppm	ppm	ppm	%
		0.2	2	0.01	1	0.1	0.5	2	2	0.01	1	0.5	50	0.02	0.5	0.01
105J_1989_1222	0	<0.2	147	1.24	18	25.1	26.0	6			1	291.5	2000	0.34	1.6	0.74
105J_1989_1223	0	<0.2	283	1.55	36	46.1	43.0	8			4	261.6	1600	0.78	10.0	1.55
105J_1989_1224	0	<0.2	326	1.05	9	13.1	14.0	6			2	470.3	2500	0.24	3.9	0.67
105J_1989_1225	0	0.2	212	0.77	5	8.1	8.3	9			2	223.2	1200	0.10	15.0	1.04
105J_1989_1226	0	0.2	228	0.74	<1	0.7	1.9	<2			3	209.9	820	0.08	18.0	1.65
105J_1989_1227	0	0.2	506	2.81	80	103.2	109.0	3			3	355.6	2000	1.65	7.5	1.18
105J_1989_1228	0	<0.2	452	1.42	14	21.1	21.0	4			3	441.3	2500	0.41	4.1	0.68
105J_1989_1229	0	0.4	293	1.72	12	16.8	17.0	5			4	338.5	1400	1.13	8.0	1.63
105J_1989_1230	0	<0.2	169	1.09	6	9.7	10.0	25	7	36.39	3	384.9	2300	0.32	0.9	0.79
105J_1989_1231	0	<0.2	278	1.26	7	10.0	10.0	10			3	279.6	1700	0.23	2.5	0.98
105J_1989_1232	0	<0.2	202	0.94	6	8.5	9.0	4			3	346.7	1500	0.13	8.0	1.12
105J_1989_1233	0	0.2	196	0.86	7	9.1	10.0	6			2	479.2	2100	0.16	1.3	0.92
105J_1989_1234	0	0.7	811	1.21	14	17.8	18.0	12			4	839.9	4400	0.39	3.2	0.52
105J_1989_1235	1	0.6	645	1.03	14	18.4	18.0	12			2	529.1	3000	0.25	2.0	0.44
105J_1989_1236	2	0.5	594	1.06	14	17.6	21.0	9			3	497.7	3500	0.22	1.8	0.41
105J_1989_1237	0	0.7	696	0.86	18	23.5	25.0	13			6	1250.2	6660	0.18	4.4	0.72
105J_1989_1238	0	0.4	783	0.89	36	45.8	48.0	18	17	35.22	4	876.3	6100	0.22	3.0	0.57
105J_1989_1239	0	0.6	801	1.14	24	31.4	33.0	13			5	1135.1	6050	0.22	4.1	0.79
105J_1989_1242	0	0.4	863	1.02	16	21.4	22.0	13			7	926.0	4700	0.18	2.9	0.71
105J_1989_1243	1	1.1	1202	0.84	28	40.0	38.0	11			5	1028.0	6010	0.21	3.2	0.97
105J_1989_1244	2	0.7	1137	0.82	32	42.3	42.0	9			5	1028.5	6400	0.20	3.3	0.90
105J_1989_1245	0	2.7	3448	1.61	22	28.5	26.0	28	30	18.24	2	1788.3	6020	0.26	8.0	0.64
105J_1989_1246	0	1.3	1135	1.09	34	48.1	45.0	11			3	1011.6	4900	0.26	5.9	0.57
105J_1989_1247	0	0.5	1008	0.97	22	29.4	33.0	22	18	26.87	4	855.3	7180	0.20	4.4	0.93
105J_1989_1248	0	0.7	918	0.92	14	15.8	18.0	9			6	1085.0	10400	0.17	2.0	1.22
105J_1989_1250	0	1.1	895	1.03	20	31.0	30.0	9			4	1222.4	8100	0.21	2.2	1.11
105J_1989_1251	0	0.8	733	0.87	16	21.1	22.0	7			5	1368.0	7980	0.19	1.6	1.36
105J_1989_1252	0	0.6	771	1.05	14	17.9	18.0	10			4	1438.7	7020	0.18	4.0	0.94
105J_1989_1253	0	0.3	425	1.20	20	24.6	25.0	7			4	408.4	4200	0.61	2.8	0.57
105J_1989_1254	0	0.4	414	2.08	43	59.3	54.7	4			4	366.4	2900	0.65	7.8	0.60
105J_1989_1255	0	<0.2	220	1.01	90	121.4	116.0	<2			2	225.6	1300	0.29	13.0	1.13
105J_1989_1256	0	0.4	593	3.35	65	87.6	80.3	5			2	919.1	5290	4.27	22.0	0.47
105J_1989_1257	0	0.5	576	0.87	16	22.0	17.0	<2			6	313.3	1100	0.16	14.0	1.09

Unique ID	Rep Stat	Cd AAS	Cd ICP-MS	Ce INAA	Co AAS	Co ICP-MS	Co INAA	Cr ICP-MS	Cr INAA	Cs INAA	Cu AAS	Cu ICP-MS	Eu INAA	F ISE	Fe AAS	Fe ICP-MS	Fe INAA
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	pct	%	pct
		0.2	0.01	5	2	0.1	5	0.5	20	0.5	2	0.01	1	20	0.02	0.01	0.2
105J_1989_1222	0	0.7	0.64	67	10	8.5	11	16.9	75	4.0	30	27.56	<1	554	2.04	1.96	2.5
105J_1989_1223	0	2.5	1.99	42	12	11.4	10	18.6	48	5.1	66	54.96	<1	548	3.13	2.82	3.0
105J_1989_1224	0	0.8	0.70	53	10	8.6	12	14.1	74	4.8	30	26.89	<1	564	2.30	1.95	2.3
105J_1989_1225	0	2.3	1.90	32	10	7.4	7	10.1	44	2.1	34	29.16	<1	401	1.86	1.54	2.0
105J_1989_1226	0	2.8	2.00	31	3	1.5	<5	6.6	34	2.0	46	37.19	<1	259	0.54	0.38	0.8
105J_1989_1227	0	4.4	3.80	54	39	35.0	36	27.0	58	5.3	53	46.46	<1	605	3.90	4.03	4.5
105J_1989_1228	0	3.2	2.66	61	18	14.6	17	21.1	77	5.8	54	44.63	<1	484	2.88	2.66	3.0
105J_1989_1229	0	1.6	1.30	51	8	7.2	7	21.4	41	3.9	43	35.79	1	579	2.01	1.69	2.4
105J_1989_1230	0	0.9	0.86	74	9	8.5	10	15.8	68	3.5	40	34.15	<1	691	2.39	2.07	2.6
105J_1989_1231	0	0.9	0.92	62	10	9.6	10	19.5	60	4.2	53	47.28	<1	765	2.29	2.14	2.5
105J_1989_1232	0	0.4	0.40	65	10	8.4	8	12.0	41	3.3	30	25.42	<1	630	2.56	2.20	2.7
105J_1989_1233	0	0.9	0.87	68	9	8.6	10	13.3	62	3.4	38	34.37	<1	720	1.91	1.95	2.5
105J_1989_1234	0	3.7	3.42	43	6	5.0	<5	21.6	96	5.3	72	65.19	<1	807	2.16	1.99	2.1
105J_1989_1235	1	3.8	2.98	50	10	8.4	10	17.7	75	4.6	96	76.79	<1	672	2.47	2.40	2.5
105J_1989_1236	2	2.8	2.32	39	9	8.4	11	18.5	72	5.1	84	70.16	<1	677	2.61	2.36	2.6
105J_1989_1237	0	4.6	3.66	55	10	10.2	12	18.2	90	5.1	96	81.80	1	775	2.82	2.85	3.3
105J_1989_1238	0	5.4	5.04	64	15	16.7	18	19.6	97	5.4	122	114.27	<1	807	3.43	3.95	4.5
105J_1989_1239	0	12.5	11.36	53	16	18.8	17	20.1	99	5.0	120	105.97	<1	816	3.13	3.26	3.6
105J_1989_1242	0	5.2	4.68	46	9	10.0	13	24.1	100	4.9	92	86.62	<1	790	2.39	2.32	2.7
105J_1989_1243	1	9.9	9.38	42	12	12.1	13	21.8	96	4.6	97	94.22	<1	730	2.57	2.73	2.8
105J_1989_1244	2	9.2	8.66	55	11	11.8	13	21.6	110	5.1	100	94.34	<1	830	2.62	2.62	2.8
105J_1989_1245	0	8.2	7.42	31	9	10.4	8	19.2	120	9.2	180	156.08	<1	727	3.35	3.08	3.1
105J_1989_1246	0	7.7	6.66	45	11	13.1	10	17.8	86	6.2	95	86.17	<1	613	2.97	2.89	2.9
105J_1989_1247	0	6.5	6.06	56	7	9.8	10	15.1	100	6.7	147	144.26	<1	1034	2.49	2.66	3.0
105J_1989_1248	0	7.2	6.54	62	4	5.5	7	22.6	98	5.3	102	97.13	<1	1061	1.91	1.95	2.2
105J_1989_1250	0	6.7	6.67	67	11	13.1	11	20.1	74	5.1	87	87.39	<1	1045	2.49	2.68	2.9
105J_1989_1251	0	8.7	8.13	73	8	9.2	10	19.0	100	4.2	82	75.38	<1	1054	2.16	2.01	2.2
105J_1989_1252	0	10.1	9.55	63	9	9.4	7	19.1	100	4.9	57	52.72	<1	880	2.34	2.23	2.6
105J_1989_1253	0	3.0	2.38	79	8	8.7	8	20.5	95	6.5	72	60.86	<1	655	2.23	2.14	2.6
105J_1989_1254	0	9.5	8.85	65	38	44.9	44	26.3	58	12.0	53	47.21	<1	700	3.20	3.32	3.9
105J_1989_1255	0	2.7	2.73	46	8	7.1	6	14.2	34	6.0	25	23.56	<1	375	4.56	4.19	4.8
105J_1989_1256	0	13.4	13.16	63	65	67.8	65	35.1	88	12.0	331	304.04	<1	729	3.56	3.78	4.3
105J_1989_1257	0	12.0	10.43	19	5	3.6	<5	14.7	21	2.8	76	66.14	<1	262	1.04	0.82	0.8

Unique ID	Rep Stat	Ga ICP-MS ppm 0.2	Hf INAA ppm 1	Hg CV-AAS ppb 10	Hg ICP-MS ppb 5	K ICP-MS % 0.01	La ICP-MS ppm 0.5	La INAA ppm 2	LOI GRAV pct 1.0	Lu INAA ppm 0.2	Mg ICP-MS % 0.01	Mn AAS ppm 5	Mn ICP-MS ppm 1	Mo AAS ppm 2	Mo ICP-MS ppm 0.01	Mo INAA ppm 1
105J_1989_1222	0	3.5	4	72	70	0.15	15.1	38	5.7	<0.2	0.61	239	259	<2	1.22	3
105J_1989_1223	0	4.5	4	95	88	0.13	12.9	29	19.3	<0.2	0.64	1242	1149	2	2.20	3
105J_1989_1224	0	3.0	4	129	119	0.10	13.7	33	14.9	<0.2	0.45	592	481	<2	1.55	4
105J_1989_1225	0	1.8	3	156	154	0.09	5.9	20	40.4	<0.2	0.31	247	198	<2	1.46	4
105J_1989_1226	0	1.6	2	148	134	0.06	4.5	14	53.8	<0.2	0.16	104	79	<2	0.57	4
105J_1989_1227	0	6.2	4	61	60	0.28	17.0	43	10.7	<0.2	1.06	990	1078	4	2.01	3
105J_1989_1228	0	3.7	3	87	85	0.17	15.8	34	15.6	<0.2	0.79	260	248	2	2.60	5
105J_1989_1229	0	4.6	4	72	61	0.18	12.0	31	23.5	<0.2	0.83	210	198	<2	1.22	4
105J_1989_1230	0	3.0	5	114	106	0.13	16.4	41	4.8	<0.2	0.65	131	140	<2	1.05	3
105J_1989_1231	0	3.5	5	164	177	0.18	15.4	36	11.8	<0.2	0.66	401	391	<2	1.19	3
105J_1989_1232	0	2.5	5	114	85	0.10	11.2	31	17.8	<0.2	0.47	713	573	<2	0.98	3
105J_1989_1233	0	2.2	6	137	103	0.11	13.8	41	7.1	<0.2	0.48	403	411	<2	2.04	4
105J_1989_1234	0	3.2	3	285	280	0.17	16.5	30	11.4	<0.2	0.52	99	105	4	4.70	5
105J_1989_1235	1	2.8	3	346	378	0.14	11.8	27	8.4	<0.2	0.39	369	395	2	3.84	5
105J_1989_1236	2	3.0	3	316	345	0.14	11.1	30	7.2	<0.2	0.39	429	448	2	3.42	5
105J_1989_1237	0	2.2	4	380	408	0.14	13.7	35	8.6	<0.2	0.30	624	664	4	5.31	8
105J_1989_1238	0	2.3	4	365	378	0.15	10.5	35	7.7	<0.2	0.26	896	1051	5	6.92	10
105J_1989_1239	0	3.0	4	304	303	0.21	19.7	37	8.5	<0.2	0.48	2106	2454	10	11.01	13
105J_1989_1242	0	2.9	3	396	423	0.19	13.7	30	9.2	<0.2	0.32	312	339	8	8.85	11
105J_1989_1243	1	2.3	3	529	601	0.15	13.2	31	9.4	<0.2	0.38	1026	1107	13	14.31	16
105J_1989_1244	2	2.2	4	487	531	0.15	12.9	33	8.6	<0.2	0.35	1098	1244	13	14.19	16
105J_1989_1245	0	3.1	1	1520	1566	0.16	12.1	20	25.2	<0.2	0.38	376	318	7	7.67	8
105J_1989_1246	0	2.6	3	350	361	0.13	17.0	31	9.9	<0.2	0.33	1692	1989	12	12.47	12
105J_1989_1247	0	2.3	4	350	365	0.12	17.6	37	7.6	<0.2	0.36	268	338	9	9.26	13
105J_1989_1248	0	2.4	3	293	319	0.19	19.3	42	7.2	<0.2	0.49	72	91	8	8.30	11
105J_1989_1250	0	2.8	4	228	227	0.19	21.6	52	5.7	<0.2	0.65	509	583	11	12.74	13
105J_1989_1251	0	2.3	4	190	186	0.19	19.8	46	5.4	<0.2	0.59	253	287	10	10.65	13
105J_1989_1252	0	2.6	4	232	244	0.17	20.1	44	10.4	<0.2	0.44	258	309	5	5.22	6
105J_1989_1253	0	3.1	4	129	117	0.13	15.4	47	6.9	<0.2	0.57	154	184	5	4.78	7
105J_1989_1254	0	5.0	3	61	50	0.19	13.7	36	13.5	<0.2	0.93	1350	1604	4	3.61	6
105J_1989_1255	0	2.7	3	72	63	0.10	6.3	20	30.3	<0.2	0.49	599	528	<2	1.55	3
105J_1989_1256	0	6.1	2	53	50	0.33	15.0	37	15.3	<0.2	0.83	799	987	10	8.99	11
105J_1989_1257	0	2.3	2	129	116	0.18	30.6	30	35.6	<0.2	0.39	272	217	2	2.26	5

Unique ID	Rep Stat	Na ICP-MS % 0.001	Na INAA pct 0.02	Ni AAS ppm 2	Ni ICP-MS ppm 0.1	P ICP-MS % 0.001	Pb AAS ppm 2	Pb ICP-MS ppm 0.01	Rb INAA ppm 5	S ICP-MS % 0.01	Sb HY-AAS ppm 0.2	Sb ICP-MS ppm 0.02	Sb INAA ppm 0.1	Sc ICP-MS ppm 0.1	Sc INAA ppm 0.2	Se ICP-MS ppm 0.1
105J_1989_1222	0	0.028	0.65	26	22.7	0.146	11	10.74	67	0.07	1.8	1.52	2.5	2.6	8.4	0.6
105J_1989_1223	0	0.035	0.58	36	30.4	0.120	21	20.23	60	0.12	1.8	1.48	2.1	3.0	7.3	1.5
105J_1989_1224	0	0.013	0.64	22	18.6	0.121	12	12.49	91	0.09	1.8	1.73	2.9	2.3	7.4	1.5
105J_1989_1225	0	0.012	0.46	39	33.1	0.133	6	6.59	62	0.74	0.4	1.00	1.2	1.5	5.3	1.7
105J_1989_1226	0	0.010	0.60	13	9.6	0.190	4	4.96	47	0.38	0.4	0.82	1.0	0.7	5.0	2.1
105J_1989_1227	0	0.099	0.62	118	109.1	0.114	52	59.34	75	0.08	3.5	2.82	4.3	3.8	9.4	1.7
105J_1989_1228	0	0.016	0.55	57	48.6	0.103	28	26.88	89	0.30	4.0	5.05	6.8	3.4	9.2	2.3
105J_1989_1229	0	0.050	0.60	25	20.8	0.110	57	57.61	65	0.16	1.5	1.75	2.5	3.2	7.4	1.6
105J_1989_1230	0	0.013	0.48	29	25.2	0.185	14	11.70	88	0.08	2.2	1.71	3.3	2.6	8.2	0.9
105J_1989_1231	0	0.019	0.43	32	27.8	0.141	10	10.74	79	0.09	2.1	2.02	2.8	3.7	9.0	1.1
105J_1989_1232	0	0.013	0.68	25	21.9	0.125	11	10.12	77	0.10	1.1	1.02	1.4	2.2	6.9	1.8
105J_1989_1233	0	0.005	0.49	29	25.7	0.181	11	11.51	69	0.08	1.0	1.28	2.0	2.6	8.0	1.1
105J_1989_1234	0	0.008	0.32	55	49.2	0.247	16	16.84	82	0.09	3.9	3.95	5.3	2.4	8.6	5.7
105J_1989_1235	1	0.005	0.23	57	48.9	0.164	10	13.44	89	0.09	3.0	2.60	3.8	3.3	8.0	2.7
105J_1989_1236	2	0.004	0.23	54	45.5	0.152	11	12.84	98	0.04	3.0	2.30	4.2	3.2	7.8	2.4
105J_1989_1237	0	0.004	0.22	74	59.9	0.260	15	14.62	84	0.12	4.0	3.41	5.2	3.6	8.6	3.7
105J_1989_1238	0	0.003	0.22	88	76.9	0.233	13	14.97	82	0.13	7.0	4.22	6.3	4.5	10.0	4.1
105J_1989_1239	0	0.006	0.29	177	161.0	0.281	16	17.33	86	0.11	9.0	5.79	8.1	3.1	8.9	3.1
105J_1989_1242	0	0.006	0.28	75	65.2	0.290	11	13.10	89	0.11	6.0	4.82	6.7	3.5	8.7	4.2
105J_1989_1243	1	0.004	0.23	110	104.7	0.284	14	15.03	89	0.14	11.0	8.60	11.3	3.3	8.4	4.9
105J_1989_1244	2	0.005	0.24	103	93.9	0.277	11	14.38	74	0.16	11.0	8.17	10.9	3.6	8.2	4.8
105J_1989_1245	0	0.007	0.38	120	103.5	0.207	16	15.16	110	0.15	8.0	5.83	7.5	4.6	13.0	7.9
105J_1989_1246	0	0.007	0.39	148	136.2	0.279	19	19.36	93	0.12	11.0	7.92	10.6	2.4	7.7	2.6
105J_1989_1247	0	0.004	0.36	139	128.5	0.344	13	15.35	99	0.09	9.0	6.82	10.0	2.3	8.7	3.8
105J_1989_1248	0	0.006	0.20	101	93.2	0.392	13	13.03	87	0.15	7.0	6.12	8.2	3.0	8.0	6.2
105J_1989_1250	0	0.005	0.26	78	80.6	0.374	27	35.37	89	0.11	10.0	7.97	10.0	3.2	8.6	5.0
105J_1989_1251	0	0.004	0.18	96	92.9	0.379	13	14.12	80	0.11	8.0	6.83	8.4	2.8	7.3	4.8
105J_1989_1252	0	0.005	0.27	86	81.7	0.258	11	11.57	89	0.08	3.2	3.12	4.4	2.7	8.6	2.7
105J_1989_1253	0	0.011	0.36	63	51.4	0.204	12	13.07	76	0.07	3.4	2.63	4.0	2.4	9.2	1.9
105J_1989_1254	0	0.013	0.45	114	105.1	0.175	13	14.99	68	0.06	3.1	1.99	3.0	2.5	8.9	1.5
105J_1989_1255	0	0.014	0.65	21	18.9	0.171	3	6.14	30	0.21	2.2	1.09	1.3	1.1	5.9	3.5
105J_1989_1256	0	0.013	0.35	190	171.0	0.205	5	6.53	69	0.15	4.0	2.48	3.5	3.3	8.0	4.1
105J_1989_1257	0	0.022	0.29	142	122.5	0.260	3	5.66	30	0.19	2.0	2.59	2.6	0.9	3.0	17.4

Unique ID	Rep Stat	Sm INAA ppm 0.1	Sn AAS ppm 1	Sr ICP-MS ppm 0.5	Ta INAA ppm 0.5	Tb INAA ppm 0.5	Te ICP-MS ppm 0.02	Th ICP-MS ppm 0.1	Th INAA ppm 0.2	Ti ICP-MS % 0.001	Tl ICP-MS ppm 0.02	U ICP-MS ppm 0.1	U INAA ppm 0.2	U NADNC ppm 0.5	V AAS ppm 5	V ICP-MS ppm 2
105J_1989_1222	0	5.9	2	82.3	1.4	0.8	0.03	3.7	8.5	0.027	0.11	1.3	4.1	4.1	41	40
105J_1989_1223	0	4.7	6	131.4	1.1	<0.5	0.05	2.8	8.0	0.032	0.17	1.5	3.6	4.1	51	41
105J_1989_1224	0	5.1	5	63.8	1.4	0.6	0.04	3.1	10.0	0.007	0.12	1.9	4.9	4.8	41	35
105J_1989_1225	0	2.8	3	61.6	0.6	0.6	<0.02	1.3	5.5	0.005	0.10	2.0	3.6	3.6	39	30
105J_1989_1226	0	1.8	5	74.0	<0.5	<0.5	<0.02	0.4	3.9	0.005	0.12	2.2	3.2	3.5	25	15
105J_1989_1227	0	7.7	6	125.7	<0.5	1.4	0.07	5.0	9.4	0.046	0.26	1.6	3.9	4.2	58	49
105J_1989_1228	0	5.1	5	68.2	0.9	0.8	0.04	4.7	8.6	0.016	0.22	2.0	4.4	4.6	58	51
105J_1989_1229	0	4.4	6	120.2	0.8	0.5	0.02	3.0	7.8	0.049	0.17	2.2	4.2	4.6	43	39
105J_1989_1230	0	6.3	4	65.6	1.1	0.8	0.03	4.6	10.0	0.014	0.12	1.1	4.2	3.7	40	37
105J_1989_1231	0	5.3	5	66.3	1.2	0.7	0.03	4.1	9.5	0.012	0.13	1.2	4.0	4.0	41	38
105J_1989_1232	0	4.4	4	72.8	0.8	<0.5	0.02	2.9	8.1	0.003	0.07	0.9	2.9	3.5	31	25
105J_1989_1233	0	6.3	4	64.1	0.9	0.8	0.03	4.2	10.0	0.003	0.09	1.5	4.5	4.4	39	35
105J_1989_1234	0	4.8	4	72.9	1.0	0.9	0.06	1.3	7.6	0.008	0.29	4.6	7.4	8.2	103	110
105J_1989_1235	1	5.2	3	62.0	0.8	0.9	0.06	2.9	7.4	0.005	0.23	3.1	6.3	5.9	72	78
105J_1989_1236	2	6.0	1	61.2	1.1	1.0	0.06	2.8	7.8	0.004	0.20	3.0	6.9	6.0	70	81
105J_1989_1237	0	6.0	3	100.8	0.9	0.8	0.07	2.5	7.5	0.004	0.24	4.8	8.5	7.9	99	103
105J_1989_1238	0	6.2	2	103.4	1.1	1.1	0.09	2.3	7.7	0.003	0.27	4.1	8.2	7.5	100	102
105J_1989_1239	0	5.9	3	121.1	0.7	0.9	0.09	2.8	7.9	0.006	0.34	3.7	7.2	7.1	89	95
105J_1989_1242	0	5.2	3	111.4	1.2	1.0	0.09	2.5	6.7	0.004	0.33	7.0	10.0	10.5	116	133
105J_1989_1243	1	5.7	3	127.0	0.7	1.0	0.09	2.3	6.6	0.004	0.43	6.9	10.0	10.4	146	160
105J_1989_1244	2	5.6	2	123.7	0.8	0.9	0.11	2.2	6.5	0.004	0.42	7.5	11.0	11.2	146	162
105J_1989_1245	0	3.3	1	93.5	0.8	<0.5	0.09	1.5	7.4	0.004	0.57	10.8	13.0	14.1	118	114
105J_1989_1246	0	5.5	2	125.8	0.9	0.9	0.10	1.2	7.9	0.005	0.34	5.4	8.5	8.8	96	93
105J_1989_1247	0	6.3	3	196.5	0.8	0.8	0.08	1.4	8.6	0.005	0.31	5.5	10.0	9.2	66	71
105J_1989_1248	0	6.4	4	183.9	1.0	0.9	0.09	3.2	7.9	0.007	0.43	7.3	11.0	10.0	142	162
105J_1989_1250	0	7.0	3	136.0	1.0	0.8	0.09	3.9	8.6	0.008	0.36	6.0	9.2	9.0	105	127
105J_1989_1251	0	6.4	2	145.9	0.9	0.8	0.09	3.6	8.1	0.008	0.34	4.1	7.1	7.1	119	145
105J_1989_1252	0	6.3	3	87.0	0.7	0.8	0.05	3.1	8.1	0.005	0.32	3.8	6.9	6.6	97	113
105J_1989_1253	0	6.9	2	55.2	1.2	1.2	0.04	2.5	8.2	0.015	0.19	4.4	7.7	7.3	69	59
105J_1989_1254	0	5.5	7	41.7	1.1	0.8	0.05	1.6	7.0	0.034	0.37	3.8	6.3	6.5	61	54
105J_1989_1255	0	3.1	4	44.6	0.7	<0.5	0.03	0.7	3.9	0.023	0.14	2.7	3.7	4.2	35	30
105J_1989_1256	0	6.2	5	51.2	0.6	1.2	0.08	3.0	6.4	0.069	0.40	9.3	11.0	11.6	95	86
105J_1989_1257	0	3.4	<1	73.3	<0.5	<0.5	<0.02	0.4	3.9	0.016	0.22	37.3	33.5	39.7	41	37

Unique ID	Rep Stat	W ICP-MS ppm 0.1	W INAA ppm 1	wt INAA g 0.01	Yb INAA ppm 2	Zn AAS ppm 2	Zn ICP-MS ppm 0.1
105J_1989_1222	0	0.2	1	41.88	3	122	106.9
105J_1989_1223	0	0.8	1	24.03	2	204	166.5
105J_1989_1224	0	<0.1	1	29.27	2	128	117.5
105J_1989_1225	0	<0.1	<1	14.70	<2	217	191.5
105J_1989_1226	0	<0.1	<1	17.38	<2	71	53.4
105J_1989_1227	0	0.3	2	30.43	5	660	554.8
105J_1989_1228	0	0.1	1	25.20	3	318	275.7
105J_1989_1229	0	0.4	1	19.71	2	223	199.0
105J_1989_1230	0	2.8	2	42.16	3	129	114.6
105J_1989_1231	0	<0.1	<1	35.03	2	135	127.4
105J_1989_1232	0	<0.1	<1	26.96	<2	106	93.4
105J_1989_1233	0	<0.1	1	42.40	3	119	112.3
105J_1989_1234	0	0.6	2	28.49	3	418	422.6
105J_1989_1235	1	0.2	2	20.97	<2	339	314.7
105J_1989_1236	2	0.2	2	36.04	3	309	265.8
105J_1989_1237	0	0.1	1	36.23	3	432	410.3
105J_1989_1238	0	0.4	1	41.44	4	417	425.5
105J_1989_1239	0	0.3	2	36.19	3	1360	1209.0
105J_1989_1242	0	<0.1	1	36.40	3	539	510.4
105J_1989_1243	1	0.2	1	19.09	3	1130	1073.0
105J_1989_1244	2	0.8	2	35.49	3	1022	951.7
105J_1989_1245	0	0.2	<1	23.25	3	587	521.3
105J_1989_1246	0	0.2	2	28.61	3	906	753.3
105J_1989_1247	0	<0.1	1	34.63	3	1110	1068.1
105J_1989_1248	0	0.3	2	31.03	3	1130	1092.5
105J_1989_1250	0	0.6	3	38.41	2	941	851.9
105J_1989_1251	0	0.2	1	39.07	3	1320	1258.7
105J_1989_1252	0	0.3	2	32.08	3	1120	1031.5
105J_1989_1253	0	2.4	5	34.68	4	380	356.8
105J_1989_1254	0	1.0	3	25.21	3	992	888.1
105J_1989_1255	0	<0.1	<1	19.11	<2	161	145.0
105J_1989_1256	0	17.2	20	27.95	4	1300	1177.0
105J_1989_1257	0	1.0	1	11.97	<2	279	253.8

Unique ID	Rep Stat	Ag AAS	Ag ICP-MS	Al ICP-MS	As HY-AAS	As ICP-MS	As INAA	Au INAA	Au1 INAA	Au1_wt -	B ICP-MS	Ba ICP-MS	Ba INAA	Bi ICP-MS	Br INAA	Ca ICP-MS
		ppm	ppb	%	ppm	ppm	ppm	ppb	ppb	g	ppm	ppm	ppm	ppm	ppm	%
		0.2	2	0.01	1	0.1	0.5	2	2	0.01	1	0.5	50	0.02	0.5	0.01
105J_1989_1258	0	<0.2	619	1.10	14	17.5	17.0	11			3	580.7	4000	0.28	10.0	0.52
105J_1989_1259	0	0.4	610	1.10	20	25.7	26.0	12			5	1164.7	7310	0.67	4.1	0.86
105J_1989_1260	0	0.6	657	0.85	18	21.3	24.0	9			5	1193.4	7770	0.23	3.3	0.79
105J_1989_1262	0	0.8	753	1.11	24	34.5	37.0	13			3	1006.7	9080	0.29	2.3	0.99
105J_1989_1264	0	0.3	594	1.20	17	20.9	21.0	14	15	20.64	4	574.5	4300	0.27	3.1	0.61
105J_1989_1265	1	0.4	711	0.88	16	21.0	21.0	8			4	872.5	4600	0.20	1.8	0.53
105J_1989_1266	2	0.5	756	0.93	18	20.5	21.0	9			4	940.0	4700	0.21	2.0	0.55
105J_1989_1267	0	0.9	999	1.19	40	48.5	47.0	9			4	1554.1	5550	0.21	4.0	0.38
105J_1989_1268	0	1.5	1360	1.48	112	145.9	139.0	12			5	1438.9	5160	0.19	7.2	0.43
105J_1989_1269	0	0.5	570	0.89	20	29.9	30.0	9			7	1569.7	18000	0.17	2.0	0.86
105J_1989_1270	0	0.8	709	1.02	17	26.3	29.0	9			3	887.7	5740	0.36	2.9	0.63
105J_1989_1271	0	0.9	1106	0.94	11	17.8	17.0	12			5	1025.2	3000	0.20	4.4	0.46
105J_1989_1272	0	1.2	1474	0.92	18	24.3	25.0	14	15	4.64	4	538.8	1700	0.15	10.0	0.33
105J_1989_1273	0	1.9	1740	0.45	450	554.3	532.0	5			3	737.5	4700	0.12	24.0	0.08
105J_1989_1274	0	0.9	716	1.24	13	17.4	18.0	10			4	526.4	2800	0.24	6.2	0.40
105J_1989_1275	0	0.2	543	1.31	12	20.1	20.0	12			5	695.4	4600	0.30	1.8	0.72
105J_1989_1276	0	0.7	792	1.29	16	27.7	26.0	10			5	1136.3	4900	0.24	4.7	0.55
105J_1989_1277	0	0.7	748	0.71	12	18.7	19.0	9			9	1102.5	7930	0.17	2.1	0.91
105J_1989_1278	0	1.7	1898	0.69	32	40.5	37.0	12			6	1373.2	10100	0.25	2.8	1.63
105J_1989_1279	0	0.2	277	0.85	1	2.2	2.2	4			7	649.0	1400	0.04	25.0	2.99
105J_1989_1280	0	1.0	1021	0.70	15	22.0	23.0	8			5	1509.0	14200	0.21	3.8	0.84
105J_1989_1282	1	0.7	768	0.85	16	26.6	26.0	8			5	1805.1	13600	0.31	3.2	1.24
105J_1989_1283	2	0.5	774	0.94	16	25.8	27.0	5			5	1747.9	14200	0.30	3.3	1.45
105J_1989_1284	0	0.8	932	0.88	20	30.0	30.0	6			4	1807.1	9550	0.34	3.6	0.80
105J_1989_1285	0	0.9	833	0.82	14	20.9	20.0	7			5	1632.9	14000	0.20	2.8	0.90
105J_1989_1286	0	0.9	1046	0.85	36	47.5	44.0	12			4	1657.4	11200	0.22	6.1	0.65
105J_1989_1287	0	1.3	1382	1.05	10	14.0	16.0	15	17	27.15	6	1161.2	6950	0.22	5.5	1.14
105J_1989_1288	0	0.9	983	0.83	12	17.5	19.0	7			5	1245.7	10800	0.20	5.1	1.06
105J_1989_1289	0	1.0	1128	0.87	17	24.6	29.0	17	19	31.63	3	577.5	7240	0.27	4.3	0.59
105J_1989_1290	0	1.2	1480	0.73	20	31.2	37.0	10			3	876.1	6200	0.21	4.2	0.58
105J_1989_1291	0	0.9	1172	0.89	32	39.7	43.0	11			3	722.1	6940	0.27	6.5	0.59
105J_1989_1292	0	0.5	888	0.72	18	24.1	30.0	11			3	844.3	8090	0.19	2.7	0.57
105J_1989_1294	0	0.2	135	0.28	3	1.6	7.7	<2			1	161.4	1200	0.07	7.3	0.18

Unique ID	Rep Stat	Cd AAS	Cd ICP-MS	Ce INAA	Co AAS	Co ICP-MS	Co INAA	Cr ICP-MS	Cr INAA	Cs INAA	Cu AAS	Cu ICP-MS	Eu INAA	F ISE	Fe AAS	Fe ICP-MS	Fe INAA
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	pct	%	pct
		0.2	0.01	5	2	0.1	5	0.5	20	0.5	2	0.01	1	20	0.02	0.01	0.2
105J_1989_1258	0	5.3	4.27	48	14	13.2	14	22.6	78	4.3	111	99.32	<1	553	3.50	3.25	3.3
105J_1989_1259	0	7.4	6.24	65	12	11.3	14	21.7	93	6.1	80	71.70	<1	853	2.79	2.63	3.0
105J_1989_1260	0	6.2	4.88	62	11	10.1	11	16.9	91	5.0	75	65.85	<1	720	2.53	2.50	3.1
105J_1989_1262	0	8.6	7.52	110	17	16.3	16	19.1	56	5.3	101	93.67	<1	1085	2.84	2.80	3.2
105J_1989_1264	0	6.9	6.77	55	15	16.8	20	18.8	73	5.7	96	95.58	<1	744	3.02	3.17	3.5
105J_1989_1265	1	5.5	5.07	40	12	9.6	10	20.4	110	4.9	90	90.56	<1	758	2.62	2.52	2.9
105J_1989_1266	2	5.6	5.29	57	11	10.5	10	22.0	120	4.9	94	93.53	<1	634	2.79	2.68	3.0
105J_1989_1267	0	7.4	6.76	38	10	8.1	10	25.2	89	5.1	83	77.15	<1	739	2.98	2.76	3.2
105J_1989_1268	0	8.7	8.13	27	6	4.7	<5	27.8	70	6.8	91	86.41	<1	688	5.12	5.61	5.4
105J_1989_1269	0	7.9	7.42	77	13	12.1	15	21.2	92	4.3	99	87.66	<1	919	2.72	2.81	2.8
105J_1989_1270	0	5.4	4.43	56	12	9.4	10	21.4	84	5.9	90	76.94	<1	795	2.52	2.56	2.7
105J_1989_1271	0	7.1	6.03	51	13	10.3	10	20.9	83	4.8	83	75.20	<1	481	2.64	2.41	2.9
105J_1989_1272	0	12.4	9.69	12	17	14.4	14	15.6	53	5.3	136	103.74	<1	323	1.16	0.91	1.1
105J_1989_1273	0	0.9	0.81	18	2	0.8	<5	24.0	50	5.8	48	43.54	<1	351	9.03	13.64	13.0
105J_1989_1274	0	3.2	2.56	53	6	5.5	8	23.0	120	6.6	80	67.82	<1	555	3.00	2.58	3.2
105J_1989_1275	0	2.2	2.08	69	12	10.9	12	21.7	81	4.8	76	71.57	<1	759	2.72	2.56	2.8
105J_1989_1276	0	6.6	5.84	35	17	15.4	16	21.1	81	4.8	92	85.00	<1	669	3.24	3.48	3.8
105J_1989_1277	0	7.4	6.73	64	11	10.3	11	18.9	90	4.2	96	84.95	<1	844	2.34	2.30	2.7
105J_1989_1278	0	14.8	15.83	80	16	15.8	16	28.9	160	4.4	148	146.54	<1	794	3.34	3.67	3.9
105J_1989_1279	0	8.0	6.55	16	4	3.2	<5	5.8	<20	0.5	65	52.05	<1	180	1.05	1.06	1.5
105J_1989_1280	0	8.5	7.69	61	4	12.9	13	16.2	100	4.3	109	93.11	<1	777	2.69	2.60	3.2
105J_1989_1282	1	11.0	10.60	84	16	15.3	16	17.3	100	5.6	77	73.92	<1	713	2.34	2.37	2.4
105J_1989_1283	2	13.4	13.03	65	17	19.8	22	17.8	110	5.7	83	79.74	<1	686	2.35	2.37	2.7
105J_1989_1284	0	8.2	7.47	59	20	12.3	13	19.1	100	6.4	81	80.01	<1	738	2.51	2.52	2.7
105J_1989_1285	0	7.3	6.44	77	14	12.2	10	18.2	96	4.5	95	86.99	1	890	2.37	2.51	2.8
105J_1989_1286	0	11.2	10.65	58	18	16.0	17	20.4	130	4.7	143	133.41	<1	813	3.15	3.20	3.7
105J_1989_1287	0	11.0	9.62	67	13	11.1	14	17.8	96	5.7	138	123.08	<1	984	2.66	2.80	3.7
105J_1989_1288	0	9.5	8.83	82	13	11.8	15	16.5	110	5.2	97	93.74	<1	956	2.58	2.70	3.6
105J_1989_1289	0	7.4	7.18	69	13	11.9	17	22.8	120	5.6	124	122.51	2	893	2.91	2.94	3.7
105J_1989_1290	0	6.7	6.33	47	13	13.0	15	29.0	130	3.5	123	125.94	1	664	3.20	3.69	4.4
105J_1989_1291	0	10.9	9.60	89	13	12.4	13	23.1	130	6.6	91	91.63	1	694	2.89	2.85	3.2
105J_1989_1292	0	8.6	7.91	67	14	13.5	15	18.5	91	4.7	105	103.16	<1	684	2.57	2.63	2.9
105J_1989_1294	0	12.8	11.00	28	<2	0.4	7	5.0	20	1.2	15	15.07	2	244	0.35	0.23	1.5

Unique ID	Rep Stat	Ga ICP-MS ppm 0.2	Hf INAA ppm 1	Hg CV-AAS ppb 10	Hg ICP-MS ppb 5	K ICP-MS % 0.01	La ICP-MS ppm 0.5	La INAA ppm 2	LOI GRAV pct 1.0	Lu INAA ppm 0.2	Mg ICP-MS % 0.01	Mn AAS ppm 5	Mn ICP-MS ppm 1	Mo AAS ppm 2	Mo ICP-MS ppm 0.01	Mo INAA ppm 1
105J_1989_1258	0	3.3	3	167	156	0.11	14.6	26	16.7	<0.2	0.46	1260	1216	7	5.62	8
105J_1989_1259	0	3.1	5	213	222	0.17	18.5	40	9.2	<0.2	0.54	611	659	7	7.07	9
105J_1989_1260	0	2.1	5	213	202	0.13	16.0	42	9.8	<0.2	0.42	242	277	7	6.84	9
105J_1989_1262	0	2.8	5	247	225	0.16	19.0	64	5.9	<0.2	0.70	950	991	9	8.97	12
105J_1989_1264	0	3.0	4	281	305	0.14	19.6	36	8.9	<0.2	0.54	941	1055	6	6.51	9
105J_1989_1265	1	2.6	4	304	312	0.13	17.0	31	6.7	<0.2	0.35	649	714	12	14.46	16
105J_1989_1266	2	2.7	4	313	325	0.14	17.5	33	7.1	<0.2	0.36	568	648	12	14.13	17
105J_1989_1267	0	3.2	2	437	470	0.13	12.5	30	10.8	<0.2	0.29	281	325	20	19.58	21
105J_1989_1268	0	3.2	2	836	857	0.16	9.1	23	15.6	<0.2	0.20	124	174	44	40.85	37
105J_1989_1269	0	2.6	5	228	263	0.21	18.8	47	4.8	<0.2	0.33	725	832	7	7.49	10
105J_1989_1270	0	2.7	4	216	246	0.15	15.5	33	6.6	<0.2	0.48	277	307	7	7.00	8
105J_1989_1271	0	3.0	4	516	709	0.12	8.1	26	12.2	<0.2	0.30	698	675	6	6.46	9
105J_1989_1272	0	2.3	<1	1216	1060	0.09	5.3	12	47.0	<0.2	0.13	374	266	5	5.31	9
105J_1989_1273	0	2.4	<1	2052	1695	0.10	3.7	16	22.6	<0.2	0.05	14	23	163	125.05	119
105J_1989_1274	0	3.3	3	306	361	0.14	18.6	34	12.5	<0.2	0.35	401	400	7	5.51	6
105J_1989_1275	0	3.6	4	168	201	0.23	22.5	43	6.8	<0.2	0.64	280	322	5	4.07	5
105J_1989_1276	0	3.2	4	306	332	0.15	16.6	31	11.2	<0.2	0.39	1008	1126	6	5.29	7
105J_1989_1277	0	1.9	4	297	349	0.15	15.7	35	6.5	<0.2	0.32	435	460	10	10.55	13
105J_1989_1278	0	1.5	3	646	706	0.17	15.4	40	7.6	<0.2	0.65	306	350	22	23.60	25
105J_1989_1279	0	1.0	1	149	164	0.02	4.8	8	60.1	<0.2	0.28	681	530	7	6.60	9
105J_1989_1280	0	1.6	4	399	498	0.12	15.6	38	8.0	<0.2	0.32	292	320	12	12.67	16
105J_1989_1282	1	2.0	4	165	203	0.14	17.6	41	6.6	<0.2	0.58	440	478	13	12.95	17
105J_1989_1283	2	1.8	5	169	209	0.14	17.4	45	6.2	<0.2	0.70	520	577	15	14.03	17
105J_1989_1284	0	2.1	4	210	260	0.15	19.5	40	6.7	<0.2	0.36	297	360	13	13.37	16
105J_1989_1285	0	2.2	4	234	311	0.16	20.0	46	6.5	<0.2	0.40	347	405	8	7.87	10
105J_1989_1286	0	2.2	3	468	621	0.14	15.0	36	9.4	<0.2	0.28	461	568	15	13.95	16
105J_1989_1287	0	2.4	3	285	343	0.18	16.6	46	12.7	<0.2	0.44	257	312	9	8.45	9
105J_1989_1288	0	2.0	3	228	262	0.15	17.1	46	8.4	<0.2	0.42	426	514	9	8.73	10
105J_1989_1289	0	2.4	3	318	411	0.11	16.6	45	7.1	<0.2	0.46	455	544	15	14.35	15
105J_1989_1290	0	1.8	2	267	346	0.10	13.0	34	10.8	<0.2	0.18	449	561	27	26.42	28
105J_1989_1291	0	2.5	4	240	319	0.14	20.2	50	7.9	<0.2	0.35	449	523	12	10.72	12
105J_1989_1292	0	1.9	4	276	345	0.10	16.4	46	4.9	<0.2	0.32	1188	1301	13	12.09	14
105J_1989_1294	0	1.1	2	66	77	0.02	2.1	16	23.4	<0.2	0.05	23	18	2	1.40	7

Unique ID	Rep Stat	Na ICP-MS % 0.001	Na INAA pct 0.02	Ni AAS ppm 2	Ni ICP-MS ppm 0.1	P ICP-MS % 0.001	Pb AAS ppm 2	Pb ICP-MS ppm 0.01	Rb INAA ppm 5	S ICP-MS % 0.01	Sb HY-AAS ppm 0.2	Sb ICP-MS ppm 0.02	Sb INAA ppm 0.1	Sc ICP-MS ppm 0.1	Sc INAA ppm 0.2	Se ICP-MS ppm 0.1
105J_1989_1258	0	0.009	0.35	105	91.9	0.227	12	13.43	73	0.13	3.1	3.02	3.9	1.9	6.9	5.0
105J_1989_1259	0	0.007	0.27	97	85.1	0.248	14	16.26	88	0.09	6.0	4.07	5.8	2.8	8.9	3.0
105J_1989_1260	0	0.005	0.26	98	84.6	0.258	12	12.77	97	0.08	4.0	3.66	5.4	2.6	9.0	3.2
105J_1989_1262	0	0.006	0.33	88	76.1	0.339	21	22.96	86	0.09	9.0	6.35	9.0	2.8	9.1	3.9
105J_1989_1264	0	0.005	0.35	89	82.5	0.225	10	15.87	79	0.07	4.1	3.74	5.2	3.3	10.0	2.1
105J_1989_1265	1	0.004	0.32	80	72.5	0.182	9	11.33	75	0.06	8.0	6.16	8.5	2.9	8.2	4.0
105J_1989_1266	2	0.005	0.34	80	78.0	0.189	11	11.55	81	0.06	8.0	6.08	8.5	3.2	8.7	4.5
105J_1989_1267	0	0.005	0.35	70	67.6	0.473	8	10.77	70	0.08	11.0	8.06	11.3	2.3	8.3	8.9
105J_1989_1268	0	0.005	0.31	48	45.9	1.821	8	10.19	52	0.12	14.0	12.09	14.0	3.1	6.8	13.2
105J_1989_1269	0	0.004	0.17	92	85.2	0.382	14	14.01	77	0.13	6.5	4.38	6.3	3.4	7.0	3.4
105J_1989_1270	0	0.007	0.27	73	61.2	0.258	18	14.69	100	0.05	6.5	4.34	6.7	3.2	8.4	3.4
105J_1989_1271	0	0.010	0.59	89	76.6	0.238	13	12.25	72	0.09	4.0	3.49	5.0	2.4	8.0	7.2
105J_1989_1272	0	0.006	0.11	96	79.5	0.148	5	8.36	46	0.47	2.1	4.13	4.9	1.0	5.4	13.8
105J_1989_1273	0	0.003	0.18	9	7.7	3.354	6	8.65	25	0.20	50.0	44.65	45.2	2.5	5.6	27.3
105J_1989_1274	0	0.006	0.34	44	35.3	0.190	15	15.05	79	0.07	3.0	2.61	4.4	2.9	11.0	3.6
105J_1989_1275	0	0.008	0.34	45	42.4	0.247	11	12.75	100	0.05	3.6	3.06	4.6	3.2	10.0	2.3
105J_1989_1276	0	0.008	0.49	106	98.9	0.257	12	12.48	87	0.09	3.4	3.10	4.7	2.9	9.3	3.7
105J_1989_1277	0	0.005	0.23	108	95.0	0.302	10	13.91	84	0.09	7.0	4.12	5.6	3.0	8.6	4.0
105J_1989_1278	0	0.003	0.12	205	198.0	0.316	17	19.76	88	0.13	11.0	8.68	11.0	4.9	10.0	8.4
105J_1989_1279	0	0.020	0.64	42	32.9	0.175	<2	1.52	<5	0.47	0.5	0.98	1.0	1.4	3.4	12.2
105J_1989_1280	0	0.004	0.26	153	130.0	0.264	15	13.85	91	0.07	6.0	4.32	5.9	3.0	8.9	3.7
105J_1989_1282	1	0.005	0.22	151	148.0	0.252	14	18.91	93	0.06	8.0	5.79	8.0	2.7	8.1	4.2
105J_1989_1283	2	0.005	0.23	207	193.2	0.245	14	16.53	110	0.08	8.0	5.83	8.4	2.9	8.7	4.4
105J_1989_1284	0	0.005	0.22	114	112.6	0.229	15	18.96	100	0.06	9.0	6.02	8.3	3.2	10.0	4.2
105J_1989_1285	0	0.004	0.23	102	92.0	0.311	11	15.19	96	0.09	5.0	3.80	5.3	3.0	9.4	3.5
105J_1989_1286	0	0.004	0.24	178	166.0	0.303	16	15.89	85	0.12	8.0	5.48	7.6	3.5	10.0	4.9
105J_1989_1287	0	0.004	0.31	154	133.4	0.355	16	16.30	110	0.11	7.0	4.91	7.0	2.8	11.0	4.6
105J_1989_1288	0	0.004	0.26	115	106.4	0.308	14	15.50	120	0.09	3.0	4.45	6.3	2.9	10.0	4.0
105J_1989_1289	0	0.003	0.33	107	98.5	0.286	13	15.69	130	0.10	11.0	8.28	11.3	3.2	10.0	6.6
105J_1989_1290	0	0.005	0.30	127	127.2	0.322	13	13.47	95	0.14	12.0	10.93	14.6	2.4	9.0	9.5
105J_1989_1291	0	0.008	0.42	138	128.8	0.275	14	16.92	120	0.13	9.0	7.00	9.4	3.2	9.0	4.6
105J_1989_1292	0	0.004	0.30	128	122.2	0.233	13	13.13	110	0.09	9.0	6.97	10.4	2.5	7.8	4.5
105J_1989_1294	0	0.027	2.12	37	30.7	0.042	<2	2.89	46	0.21	1.1	1.92	2.5	0.4	4.5	14.7

Unique ID	Rep Stat	Sm INAA	Sn AAS	Sr ICP-MS	Ta INAA	Tb INAA	Te ICP-MS	Th ICP-MS	Th INAA	Ti ICP-MS	Tl ICP-MS	U ICP-MS	U INAA	U NADNC	V AAS	V ICP-MS
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.5	0.5	0.5	0.02	0.1	0.2	0.001	0.02	0.1	0.2	0.5	5	2
105J_1989_1258	0	5.0	1	90.6	0.7	0.8	0.07	1.0	6.9	0.015	0.24	5.4	8.0	8.6	74	63
105J_1989_1259	0	6.2	2	70.5	1.0	1.0	0.08	2.3	8.4	0.014	0.27	4.6	8.2	7.7	83	79
105J_1989_1260	0	6.0	2	87.5	1.2	1.1	0.07	2.1	8.4	0.006	0.26	3.9	8.1	7.7	73	71
105J_1989_1262	0	8.2	5	126.7	1.0	1.0	0.07	3.8	10.0	0.009	0.24	4.7	9.0	8.5	88	75
105J_1989_1264	0	6.2	2	88.6	1.2	1.0	0.07	3.1	8.9	0.007	0.25	5.1	8.8	8.6	63	56
105J_1989_1265	1	5.6	<1	77.7	1.0	1.0	0.08	2.2	7.6	0.007	0.38	5.4	10.0	9.3	114	132
105J_1989_1266	2	5.8	<1	78.3	0.9	0.9	0.08	2.2	7.2	0.007	0.40	5.8	10.0	9.4	123	144
105J_1989_1267	0	5.1	2	86.1	0.6	0.8	0.10	1.3	6.6	0.007	0.59	3.9	6.6	6.6	224	241
105J_1989_1268	0	4.4	3	118.8	<0.5	0.8	0.20	2.4	4.7	0.013	1.27	5.6	7.5	7.9	706	652
105J_1989_1269	0	7.6	5	147.2	0.9	1.1	0.10	3.1	7.9	0.008	0.26	5.2	8.9	8.2	110	121
105J_1989_1270	0	5.7	3	83.0	0.9	0.9	0.07	3.2	8.1	0.010	0.28	5.1	9.4	8.4	101	97
105J_1989_1271	0	4.8	2	82.2	0.9	0.9	0.11	0.9	6.3	0.006	0.39	4.5	7.5	7.7	172	159
105J_1989_1272	0	2.5	1	56.4	<0.5	<0.5	0.05	0.2	2.7	0.002	0.39	3.1	4.4	5.0	79	78
105J_1989_1273	0	2.7	1	52.8	<0.5	<0.5	0.10	1.3	3.6	0.017	1.00	6.2	7.2	8.2	1782	1495
105J_1989_1274	0	5.4	3	68.8	1.1	0.9	0.08	1.5	7.6	0.004	0.27	4.0	7.8	8.2	99	85
105J_1989_1275	0	6.1	4	83.0	1.4	0.8	0.07	3.8	8.5	0.013	0.24	2.8	5.9	6.1	74	73
105J_1989_1276	0	4.9	1	89.6	1.1	0.8	0.05	2.2	7.7	0.006	0.31	4.3	6.9	7.2	77	84
105J_1989_1277	0	5.3	3	126.4	0.9	0.9	0.10	2.5	6.9	0.005	0.33	4.8	8.1	7.9	87	104
105J_1989_1278	0	6.7	6	227.6	1.0	1.0	0.17	3.2	8.2	0.003	0.45	7.6	11.0	10.9	134	157
105J_1989_1279	0	1.2	7	201.2	<0.5	<0.5	0.02	0.3	1.9	0.009	0.08	15.3	15.0	17.1	14	8
105J_1989_1280	0	6.5	3	121.3	0.8	0.9	0.10	1.7	8.2	0.004	0.42	5.6	10.0	9.6	90	86
105J_1989_1282	1	6.5	5	84.1	1.1	0.9	0.07	2.6	9.0	0.008	0.43	4.9	9.0	8.4	94	94
105J_1989_1283	2	6.8	6	94.6	1.2	0.9	0.06	2.6	9.2	0.008	0.45	4.5	8.4	8.2	90	97
105J_1989_1284	0	6.0	2	76.6	1.0	1.1	0.08	2.6	9.1	0.007	0.41	6.6	10.0	10.3	101	107
105J_1989_1285	0	6.7	2	122.2	1.3	0.9	0.07	2.7	8.9	0.006	0.32	4.4	8.1	8.1	79	80
105J_1989_1286	0	6.0	3	159.4	0.9	1.2	0.11	1.9	8.1	0.004	0.49	6.9	11.0	11.0	101	100
105J_1989_1287	0	5.4	2	154.7	1.0	1.0	0.09	1.5	8.9	0.006	0.39	5.5	10.0	10.0	81	79
105J_1989_1288	0	6.1	4	119.0	1.3	0.9	0.09	2.0	8.3	0.005	0.34	4.8	9.0	8.7	76	81
105J_1989_1289	0	6.4	3	98.9	1.1	1.3	0.13	2.5	8.7	0.004	0.36	11.5	16.0	13.8	92	78
105J_1989_1290	0	5.4	2	136.3	0.8	1.2	0.11	1.4	6.1	0.004	0.53	14.5	19.0	17.7	143	146
105J_1989_1291	0	6.6	2	106.8	1.0	1.0	0.11	2.7	9.2	0.019	0.37	16.4	20.8	20.2	98	95
105J_1989_1292	0	6.9	3	96.7	1.0	1.1	0.08	2.4	7.5	0.007	0.34	10.1	15.0	13.8	90	93
105J_1989_1294	0	1.8	<1	20.1	<0.5	<0.5	<0.02	0.1	4.0	0.009	0.11	4.7	6.6	6.4	14	15

Unique ID	Rep Stat	W ICP-MS ppm 0.1	W INAA ppm 1	wt INAA g 0.01	Yb INAA ppm 2	Zn AAS ppm 2	Zn ICP-MS ppm 0.1
105J_1989_1258	0	1.0	<1	27.36	<2	351	329.6
105J_1989_1259	0	6.4	5	28.95	3	934	786.5
105J_1989_1260	0	0.3	2	35.08	3	787	656.1
105J_1989_1262	0	14.1	19	34.51	4	819	685.1
105J_1989_1264	0	0.5	3	22.55	3	741	695.3
105J_1989_1265	1	0.1	1	18.98	3	515	509.7
105J_1989_1266	2	1.6	2	41.72	4	523	531.0
105J_1989_1267	0	0.3	<1	34.44	2	485	459.0
105J_1989_1268	0	0.4	<1	29.78	3	298	283.9
105J_1989_1269	0	2.3	4	29.12	3	583	541.6
105J_1989_1270	0	0.5	2	36.69	3	523	489.4
105J_1989_1271	0	0.2	<1	23.29	3	514	465.9
105J_1989_1272	0	0.1	<1	11.47	<2	627	448.3
105J_1989_1273	0	8.5	<1	25.59	3	57	48.4
105J_1989_1274	0	0.1	2	31.16	3	256	225.4
105J_1989_1275	0	0.4	2	35.98	3	255	245.3
105J_1989_1276	0	0.2	<1	29.59	3	624	542.7
105J_1989_1277	0	<0.1	1	38.22	3	958	813.7
105J_1989_1278	0	<0.1	1	20.02	4	2125	2146.9
105J_1989_1279	0	<0.1	<1	12.18	<2	214	178.9
105J_1989_1280	0	<0.1	1	35.83	3	980	902.1
105J_1989_1282	1	1.6	3	17.40	3	1390	1398.5
105J_1989_1283	2	2.8	3	36.55	4	821	1775.2
105J_1989_1284	0	0.3	2	37.30	3	1130	1096.3
105J_1989_1285	0	0.3	1	14.61	3	838	752.8
105J_1989_1286	0	<0.1	<1	30.56	4	1070	1027.5
105J_1989_1287	0	<0.1	1	29.97	3	1250	1124.5
105J_1989_1288	0	<0.1	2	32.20	2	1020	1016.1
105J_1989_1289	0	1.2	2	31.93	4	811	741.4
105J_1989_1290	0	0.1	1	37.11	4	901	833.6
105J_1989_1291	0	0.5	3	32.54	3	1040	1004.3
105J_1989_1292	0	0.4	2	38.18	3	1045	918.7
105J_1989_1294	0	<0.1	<1	20.51	<2	149	141.4

Unique ID	Rep Stat	Ag AAS	Ag ICP-MS	Al ICP-MS	As HY-AAS	As ICP-MS	As INAA	Au INAA	Au1 INAA	Au1_wt -	B ICP-MS	Ba ICP-MS	Ba INAA	Bi ICP-MS	Br INAA	Ca ICP-MS
		ppm	ppb	%	ppm	ppm	ppm	ppb	ppb	g	ppm	ppm	ppm	ppm	ppm	%
		0.2	2	0.01	1	0.1	0.5	2	2	0.01	1	0.5	50	0.02	0.5	0.01
105J_1989_1295	0	<0.2	251	2.02	124	152.0	196.0	8			2	836.7	2100	1.86	7.6	0.79
105J_1989_1296	0	1.0	1588	1.02	16	22.8	26.0	17	12	24.37	3	789.1	5890	0.29	4.4	0.46
105J_1989_1297	0	2.0	2645	1.26	6	0.1	10.0	19	18	15.22	2	698.2	1800	0.19	7.7	0.22
105J_1989_1298	0	0.5	624	0.92	12	15.4	19.0	12			5	1003.4	6470	0.19	5.1	0.61
105J_1989_1299	0	1.1	1067	0.73	15	21.1	24.0	8			4	1301.4	8160	0.19	4.2	0.81
105J_1989_1300	0	0.8	848	0.87	14	18.9	23.0	10			7	907.1	9270	0.17	4.9	0.84
105J_1989_1302	0	0.8	1099	0.85	14	20.1	22.0	9			6	1642.8	11100	0.21	3.6	0.91
105J_1989_1303	0	1.0	857	0.86	15	26.7	26.0	5			6	888.6	5170	0.16	6.1	0.73
105J_1989_1304	0	0.3	562	0.96	5	6.4	8.4	8			5	425.5	2400	0.14	8.2	0.79
105J_1989_1305	0	0.7	1071	0.78	9	15.0	19.0	12			6	742.5	8280	0.20	1.8	0.59
105J_1989_1306	0	0.6	879	0.93	11	18.6	23.0	12			5	1146.6	7370	0.21	3.3	0.57
105J_1989_1308	1	0.2	426	1.10	6	9.0	11.0	11	10	20.50	4	408.5	2700	0.16	3.5	0.55
105J_1989_1309	2	0.2	353	1.05	7	9.0	12.0	15	11	35.38	4	372.4	2600	0.15	3.7	0.53
105J_1989_1310	0	0.7	832	0.93	12	18.2	23.0	10			4	1061.1	5830	0.21	4.9	0.63
105J_1989_1311	0	1.1	1057	1.01	10	14.5	19.0	11			5	810.0	5290	0.22	5.1	0.53
105J_1989_1312	0	0.7	759	1.41	9	12.6	15.0	12			7	1277.9	5150	0.15	4.6	0.65
105J_1989_1313	0	0.6	776	0.38	36	41.7	44.0	4			4	628.0	1200	0.08	22.0	0.92
105J_1989_1314	0	1.2	1174	0.81	14	23.9	27.0	10			5	1026.5	4800	0.20	2.4	0.41
105J_1989_1315	0	1.1	1147	0.87	15	22.9	31.0	16	17	28.07	3	899.7	4700	0.18	7.0	0.34
105J_1989_1316	0	0.6	805	1.04	6	8.5	11.0	13			4	612.7	2900	0.16	12.0	0.69
105J_1989_1317	0	0.4	343	1.04	7	9.8	13.0	8			3	443.4	2900	0.16	5.4	0.53
105J_1989_1318	0	0.6	642	0.84	9	14.6	18.0	11			4	452.5	3100	0.16	1.5	0.45
105J_1989_1319	0	0.3	557	0.78	10	17.3	21.0	7			4	573.7	3200	0.20	2.2	0.21
105J_1989_1320	0	0.9	591	0.93	9	11.7	16.0	16	15	15.94	4	440.7	7230	0.17	3.1	0.83
105J_1989_1322	0	0.9	1078	0.98	9	13.1	16.0	10			6	825.6	3800	0.15	6.8	0.80
105J_1989_1323	0	1.0	774	0.80	9	14.7	18.0	7			4	911.4	4300	0.16	2.6	0.45
105J_1989_1324	0	<0.2	203	0.92	6	7.5	9.5	6			3	286.5	1600	0.18	6.1	0.18
105J_1989_1325	0	0.7	470	0.67	8	10.4	14.0	8			<1	735.9	3600	0.15	2.5	0.42
105J_1989_1326	0	0.3	376	0.80	6	9.6	11.0	7			1	499.4	2200	0.19	3.3	0.82
105J_1989_1327	0	0.4	423	0.98	7	9.4	11.0	9			<1	454.3	2600	0.17	3.2	0.66
105J_1989_1328	0	1.0	1247	0.88	5	6.9	9.3	10			<1	394.9	2000	0.18	6.2	0.57
105J_1989_1329	0	0.3	611	0.71	7	10.2	14.0	9			<1	936.8	5080	0.19	2.9	0.39
105J_1989_1330	0	0.8	799	0.69	3	2.9	5.3	6			1	355.6	1600	0.11	8.7	0.47

Unique ID	Rep Stat	Cd AAS	Cd ICP-MS	Ce INAA	Co AAS	Co ICP-MS	Co INAA	Cr ICP-MS	Cr INAA	Cs INAA	Cu AAS	Cu ICP-MS	Eu INAA	F ISE	Fe AAS	Fe ICP-MS	Fe INAA
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	pct	%	pct
		0.2	0.01	5	2	0.1	5	0.5	20	0.5	2	0.01	1	20	0.02	0.01	0.2
105J_1989_1295	0	12.3	11.53	82	9	6.9	8	15.5	25	22.0	35	34.67	<1	388	2.42	1.98	2.9
105J_1989_1296	0	4.8	4.16	61	9	8.7	12	26.8	110	4.4	103	100.67	<1	587	2.53	2.47	3.2
105J_1989_1297	0	8.3	8.99	38	5	3.2	9	21.0	66	3.3	113	147.58	<1	361	1.00	0.86	1.7
105J_1989_1298	0	3.3	2.67	78	11	10.8	14	18.6	120	4.4	76	72.43	2	759	2.87	2.63	3.4
105J_1989_1299	0	8.6	7.81	65	13	11.5	13	18.8	100	4.9	102	99.96	1	847	2.57	2.54	3.2
105J_1989_1300	0	7.0	5.78	68	13	10.2	13	20.1	85	3.8	76	74.49	<1	810	2.47	2.37	3.1
105J_1989_1302	0	8.5	7.55	68	17	16.1	19	20.8	110	3.9	98	99.42	2	822	2.85	2.73	3.2
105J_1989_1303	0	3.2	3.13	55	8	7.3	7	22.8	84	3.4	57	55.14	<1	744	2.54	2.59	2.7
105J_1989_1304	0	5.1	4.15	50	9	7.3	10	14.6	63	4.2	73	60.27	<1	446	2.09	1.74	2.6
105J_1989_1305	0	4.2	3.64	58	10	7.5	10	27.1	140	4.3	106	98.02	2	698	1.55	1.37	2.0
105J_1989_1306	0	6.0	4.93	64	10	9.5	13	21.4	110	5.0	92	83.14	1	684	2.55	2.41	3.4
105J_1989_1308	1	1.6	1.64	82	13	11.4	16	24.0	73	4.0	70	63.98	<1	719	2.66	2.34	3.1
105J_1989_1309	2	1.4	1.33	74	12	10.7	15	19.1	84	3.8	71	61.88	<1	729	2.36	2.31	3.4
105J_1989_1310	0	5.9	5.23	64	10	11.1	16	21.0	76	5.5	77	72.12	1	741	2.57	2.57	3.5
105J_1989_1311	0	5.0	4.12	66	11	9.5	11	21.0	100	4.7	91	80.92	1	659	1.76	1.57	2.3
105J_1989_1312	0	10.1	9.57	54	10	10.1	12	25.5	75	4.9	78	73.46	<1	786	2.87	2.73	3.5
105J_1989_1313	0	8.3	6.88	22	5	3.0	9	6.9	24	1.2	61	51.18	<1	240	3.81	3.82	4.6
105J_1989_1314	0	10.7	9.83	64	22	22.0	26	22.6	99	5.0	88	87.53	2	588	3.02	2.98	3.5
105J_1989_1315	0	11.9	10.25	46	18	17.6	24	17.2	99	6.5	81	71.58	<1	510	3.15	3.05	3.6
105J_1989_1316	0	5.9	4.74	65	11	9.7	13	17.7	78	5.9	71	59.96	1	933	2.18	1.99	2.8
105J_1989_1317	0	1.7	1.36	78	12	12.0	17	17.4	86	6.4	60	52.91	1	619	2.54	2.40	3.8
105J_1989_1318	0	4.0	3.42	72	11	10.2	15	16.7	84	4.7	80	74.14	2	647	2.22	2.15	2.9
105J_1989_1319	0	3.0	2.50	60	6	4.6	7	18.6	89	4.9	50	42.65	1	502	2.34	1.79	2.5
105J_1989_1320	0	2.0	2.12	75	11	12.2	14	17.3	70	4.9	79	72.32	2	763	3.03	2.75	3.8
105J_1989_1322	0	8.2	7.23	71	15	14.7	18	23.6	90	3.9	72	72.18	1	694	2.81	2.65	3.4
105J_1989_1323	0	6.2	5.72	55	7	8.7	10	18.6	94	4.8	65	65.09	2	564	2.26	2.27	2.9
105J_1989_1324	0	0.8	0.83	69	9	9.0	13	16.1	80	4.5	41	39.73	1	300	2.46	1.98	3.1
105J_1989_1325	0	2.6	2.58	64	10	9.1	13	12.7	90	4.3	61	60.33	<1	587	2.51	2.32	3.2
105J_1989_1326	0	1.0	1.29	64	10	10.8	13	11.8	56	6.2	56	52.88	2	796	2.40	2.27	2.8
105J_1989_1327	0	1.7	1.87	66	9	11.1	13	16.0	72	5.7	61	63.42	1	725	2.43	2.39	3.0
105J_1989_1328	0	2.3	2.31	66	8	6.3	8	13.8	83	5.1	74	69.77	2	570	2.15	1.90	2.7
105J_1989_1329	0	1.4	1.62	69	11	11.6	18	13.9	97	4.8	67	68.62	1	524	2.57	2.67	3.8
105J_1989_1330	0	3.8	3.35	48	8	5.6	10	11.1	49	3.3	55	51.93	1	347	1.62	1.32	2.7

Unique ID	Rep Stat	Ga ICP-MS ppm 0.2	Hf INAA ppm 1	Hg CV-AAS ppb 10	Hg ICP-MS ppb 5	K ICP-MS % 0.01	La ICP-MS ppm 0.5	La INAA ppm 2	LOI GRAV pct 1.0	Lu INAA ppm 0.2	Mg ICP-MS % 0.01	Mn AAS ppm 5	Mn ICP-MS ppm 1	Mo AAS ppm 2	Mo ICP-MS ppm 0.01	Mo INAA ppm 1
105J_1989_1295	0	5.7	4	36	24	0.21	32.3	44	6.0	<0.2	0.59	327	367	2	2.44	4
105J_1989_1296	0	2.9	3	366	464	0.11	14.7	36	9.1	<0.2	0.34	312	359	11	10.78	13
105J_1989_1297	0	2.7	2	1292	1568	0.07	11.0	19	37.1	<0.2	0.09	71	81	6	9.63	8
105J_1989_1298	0	2.5	4	198	235	0.14	14.5	44	7.5	<0.2	0.41	534	565	6	5.00	6
105J_1989_1299	0	1.9	3	330	454	0.13	15.1	37	8.3	<0.2	0.31	345	375	13	13.23	16
105J_1989_1300	0	2.4	3	329	408	0.16	13.8	39	10.9	<0.2	0.30	1116	1117	8	8.25	10
105J_1989_1302	0	2.3	3	357	510	0.18	16.3	37	9.6	<0.2	0.31	725	803	12	11.06	12
105J_1989_1303	0	2.7	3	362	399	0.14	14.7	33	10.2	<0.2	0.26	611	734	10	11.17	10
105J_1989_1304	0	2.7	3	239	220	0.13	12.3	27	24.7	<0.2	0.30	917	701	<2	2.94	6
105J_1989_1305	0	2.6	3	448	495	0.15	16.0	38	6.9	<0.2	0.30	29	34	10	10.83	14
105J_1989_1306	0	2.8	4	422	359	0.15	16.2	40	6.9	<0.2	0.36	468	513	7	7.83	9
105J_1989_1308	1	3.1	5	190	202	0.14	19.2	37	5.1	<0.2	0.70	738	833	3	4.27	5
105J_1989_1309	2	3.1	6	190	186	0.14	19.9	43	4.9	<0.2	0.65	327	355	4	3.60	5
105J_1989_1310	0	2.9	4	448	479	0.13	15.6	37	7.0	<0.2	0.53	663	691	8	9.77	11
105J_1989_1311	0	3.1	3	426	486	0.14	15.0	34	9.2	<0.2	0.52	195	209	4	5.24	7
105J_1989_1312	0	4.3	3	288	314	0.21	20.2	33	6.5	<0.2	0.92	900	954	6	7.05	9
105J_1989_1313	0	0.9	<1	299	284	0.05	2.8	10	40.0	<0.2	0.19	1116	853	4	5.43	8
105J_1989_1314	0	2.6	4	608	680	0.12	16.4	34	6.6	<0.2	0.32	1422	1625	14	15.14	17
105J_1989_1315	0	2.4	3	684	623	0.09	11.7	29	8.4	<0.2	0.27	1476	1475	12	11.23	15
105J_1989_1316	0	3.1	4	433	501	0.12	15.4	34	10.8	<0.2	0.56	565	588	4	3.82	5
105J_1989_1317	0	3.2	5	216	221	0.12	16.5	40	8.1	<0.2	0.58	483	508	3	3.38	4
105J_1989_1318	0	2.6	4	224	243	0.12	15.6	37	7.3	<0.2	0.43	205	238	9	9.65	12
105J_1989_1319	0	2.5	4	250	270	0.09	10.4	32	10.9	<0.2	0.22	100	103	7	7.48	10
105J_1989_1320	0	2.9	4	269	325	0.14	16.0	42	7.5	<0.2	0.65	516	559	6	5.58	6
105J_1989_1322	0	3.0	5	278	357	0.14	15.8	38	10.2	<0.2	0.59	1422	1599	8	8.08	9
105J_1989_1323	0	2.3	4	228	290	0.11	11.5	33	6.0	<0.2	0.31	223	271	6	5.92	7
105J_1989_1324	0	3.4	5	71	85	0.09	9.1	31	12.1	<0.2	0.26	756	674	<2	2.77	4
105J_1989_1325	0	1.9	4	202	250	0.12	11.1	33	5.4	<0.2	0.32	422	438	4	4.21	5
105J_1989_1326	0	2.2	4	209	253	0.15	14.6	34	10.3	<0.2	0.34	455	494	3	3.63	3
105J_1989_1327	0	3.0	5	198	228	0.16	18.0	37	7.7	<0.2	0.56	499	536	4	4.28	5
105J_1989_1328	0	2.6	4	399	462	0.13	9.7	34	13.3	<0.2	0.29	1062	985	3	3.01	3
105J_1989_1329	0	2.3	6	246	274	0.13	12.0	39	5.8	<0.2	0.27	1044	1047	4	4.39	5
105J_1989_1330	0	2.1	3	295	319	0.10	5.5	21	15.0	<0.2	0.18	500	428	<2	1.79	4

Unique ID	Rep Stat	Na ICP-MS % 0.001	Na INAA pct 0.02	Ni AAS ppm 2	Ni ICP-MS ppm 0.1	P ICP-MS % 0.001	Pb AAS ppm 2	Pb ICP-MS ppm 0.01	Rb INAA ppm 5	S ICP-MS % 0.01	Sb HY-AAS ppm 0.2	Sb ICP-MS ppm 0.02	Sb INAA ppm 0.1	Sc ICP-MS ppm 0.1	Sc INAA ppm 0.2	Se ICP-MS ppm 0.1
105J_1989_1295	0	0.027	1.40	59	59.6	0.097	23	25.83	160	0.01	8.0	3.81	10.1	4.3	10.0	2.1
105J_1989_1296	0	0.004	0.39	73	66.7	0.208	14	11.22	100	0.06	5.0	4.66	6.9	2.0	10.0	3.9
105J_1989_1297	0	0.011	1.10	80	71.1	0.222	8	9.01	52	0.37	1.0	4.04	3.5	1.3	10.0	41.4
105J_1989_1298	0	0.004	0.28	65	57.1	0.231	11	11.39	95	0.08	3.0	2.57	4.2	2.6	10.0	2.7
105J_1989_1299	0	0.004	0.33	139	126.5	0.290	12	13.57	110	0.09	5.5	5.62	7.5	3.0	11.0	4.4
105J_1989_1300	0	0.006	0.30	83	72.8	0.269	9	10.15	99	0.25	3.4	3.30	5.1	2.8	9.0	4.6
105J_1989_1302	0	0.005	0.25	99	119.0	0.313	13	13.22	93	0.12	5.0	4.47	6.3	3.4	9.0	4.7
105J_1989_1303	0	0.006	0.26	60	58.9	0.275	8	9.13	92	0.15	3.0	2.46	3.6	2.8	7.7	3.4
105J_1989_1304	0	0.013	0.93	57	47.0	0.210	8	7.75	82	0.13	0.8	1.51	2.2	1.0	8.8	1.6
105J_1989_1305	0	0.005	0.29	66	58.0	0.227	12	13.86	97	0.29	4.1	4.35	7.2	3.1	10.0	6.3
105J_1989_1306	0	0.006	0.37	76	67.0	0.237	10	12.84	100	0.08	4.2	3.59	5.8	3.0	10.0	3.7
105J_1989_1308	1	0.005	0.44	43	39.6	0.175	11	11.94	91	0.04	2.0	1.83	2.8	3.1	9.3	2.0
105J_1989_1309	2	0.005	0.49	40	35.9	0.186	8	10.77	87	0.03	1.9	1.79	2.8	3.0	10.0	2.1
105J_1989_1310	0	0.006	0.46	84	78.4	0.171	10	12.13	94	0.06	5.0	4.86	7.3	3.0	10.0	3.3
105J_1989_1311	0	0.006	0.37	94	81.8	0.189	12	12.18	95	0.15	3.7	3.38	5.4	3.0	10.0	10.8
105J_1989_1312	0	0.008	0.31	107	102.4	0.284	9	12.02	82	0.09	2.8	2.14	3.5	3.2	8.6	3.5
105J_1989_1313	0	0.027	1.10	69	62.8	0.206	4	3.80	19	0.39	1.2	2.11	2.2	1.0	4.7	20.2
105J_1989_1314	0	0.006	0.46	134	124.6	0.171	8	11.72	94	0.05	7.0	6.32	9.5	3.1	9.3	5.2
105J_1989_1315	0	0.005	0.50	143	121.5	0.225	8	10.12	98	0.04	7.0	5.75	10.0	2.4	8.7	4.5
105J_1989_1316	0	0.007	0.55	74	64.6	0.152	9	10.70	100	0.09	2.4	2.17	3.7	3.0	10.0	2.5
105J_1989_1317	0	0.006	0.54	38	34.0	0.144	6	10.79	110	0.02	2.0	1.74	3.0	3.2	11.0	1.4
105J_1989_1318	0	0.005	0.44	63	54.7	0.146	7	12.78	100	0.09	5.0	4.73	7.0	3.5	10.0	3.1
105J_1989_1319	0	0.004	0.40	36	30.5	0.196	9	13.13	99	0.04	3.8	3.85	6.3	2.2	9.4	3.5
105J_1989_1320	0	0.005	0.36	45	40.9	0.188	12	12.69	100	0.29	2.8	2.42	3.6	3.8	10.0	2.9
105J_1989_1322	0	0.006	0.52	123	111.5	0.227	6	10.12	94	0.11	4.0	3.78	5.5	3.1	10.0	5.2
105J_1989_1323	0	0.005	0.36	78	72.9	0.200	11	11.21	100	0.08	4.2	3.77	5.7	3.0	10.0	4.0
105J_1989_1324	0	0.007	1.00	34	30.8	0.102	9	9.55	94	0.08	1.2	1.29	2.1	0.8	10.0	1.5
105J_1989_1325	0	0.004	0.31	57	50.2	0.147	8	9.23	110	0.08	2.6	2.24	3.7	2.9	9.4	2.4
105J_1989_1326	0	0.006	0.43	33	31.3	0.136	11	11.21	120	0.06	1.5	1.60	2.4	3.9	10.0	1.3
105J_1989_1327	0	0.007	0.47	40	38.1	0.153	11	11.94	120	0.05	1.7	1.80	2.9	3.9	9.5	1.5
105J_1989_1328	0	0.005	0.50	91	83.8	0.156	11	10.88	110	0.12	1.0	1.08	2.2	1.5	11.0	2.1
105J_1989_1329	0	0.004	0.41	52	46.9	0.133	9	11.29	110	0.05	2.0	1.88	3.1	3.2	11.0	2.7
105J_1989_1330	0	0.021	1.50	71	62.8	0.107	4	7.08	66	0.07	0.8	0.97	1.5	1.0	9.3	3.7

Unique ID	Rep Stat	Sm INAA	Sn AAS	Sr ICP-MS	Ta INAA	Tb INAA	Te ICP-MS	Th ICP-MS	Th INAA	Ti ICP-MS	Tl ICP-MS	U ICP-MS	U INAA	U NADNC	V AAS	V ICP-MS
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.5	0.5	0.5	0.02	0.1	0.2	0.001	0.02	0.1	0.2	0.5	5	2
105J_1989_1295	0	5.4	3	141.4	1.0	0.8	<0.02	10.7	17.0	0.043	0.28	20.3	24.7	21.8	44	45
105J_1989_1296	0	5.5	1	73.7	0.9	1.1	0.09	0.7	7.6	0.006	0.37	10.6	14.0	13.7	121	132
105J_1989_1297	0	4.2	1	39.0	<0.5	1.0	0.07	0.2	4.5	0.005	0.38	15.5	15.0	16.0	66	61
105J_1989_1298	0	6.0	4	57.0	1.4	0.9	0.06	1.8	7.8	0.004	0.18	4.0	7.3	7.6	55	52
105J_1989_1299	0	5.4	3	97.2	0.9	1.0	0.10	1.5	8.1	0.005	0.43	6.7	11.0	9.7	101	105
105J_1989_1300	0	5.5	2	98.2	1.0	0.9	0.08	2.0	7.2	0.006	0.30	7.8	12.0	11.1	92	102
105J_1989_1302	0	5.6	4	127.6	0.9	0.9	0.06	2.2	7.9	0.005	0.40	6.9	10.0	9.7	101	114
105J_1989_1303	0	4.6	3	86.6	1.0	0.8	0.07	2.0	6.6	0.005	0.35	14.5	17.0	16.1	116	127
105J_1989_1304	0	4.2	3	48.8	0.9	0.8	0.02	0.3	6.5	0.004	0.19	3.8	6.6	6.2	51	49
105J_1989_1305	0	5.7	2	112.0	1.1	1.0	0.07	2.1	7.5	0.005	0.32	8.0	13.0	11.1	129	142
105J_1989_1306	0	5.9	4	98.5	1.1	1.2	0.10	2.4	8.3	0.007	0.30	7.3	12.0	10.5	107	108
105J_1989_1308	1	5.6	4	68.1	1.5	0.8	0.05	3.1	8.8	0.008	0.17	3.0	7.1	5.9	57	62
105J_1989_1309	2	6.3	3	66.7	1.4	1.1	0.04	3.8	10.0	0.010	0.15	2.5	7.2	6.3	61	58
105J_1989_1310	0	5.6	2	86.8	1.4	1.1	0.06	2.2	7.5	0.006	0.33	3.4	7.9	7.1	95	108
105J_1989_1311	0	5.0	3	80.0	1.0	0.9	0.05	2.3	7.7	0.005	0.31	10.0	15.0	14.0	109	116
105J_1989_1312	0	4.7	3	90.8	0.9	0.9	0.09	3.1	7.3	0.007	0.29	5.7	9.4	9.7	108	122
105J_1989_1313	0	1.2	4	77.4	<0.5	0.5	<0.02	0.2	2.1	0.011	0.12	21.2	21.3	23.0	19	23
105J_1989_1314	0	5.9	1	67.1	1.0	1.2	0.07	2.0	7.7	0.006	0.44	7.9	12.0	11.4	141	153
105J_1989_1315	0	5.8	3	50.9	0.9	1.0	0.06	1.3	7.5	0.006	0.44	4.0	8.9	7.7	103	84
105J_1989_1316	0	5.7	3	78.4	1.3	0.9	0.05	1.7	8.6	0.006	0.24	2.8	7.4	6.4	69	62
105J_1989_1317	0	6.3	2	63.2	1.5	1.0	0.06	2.8	9.4	0.006	0.16	1.7	6.3	5.0	56	51
105J_1989_1318	0	6.0	3	54.3	1.2	1.0	0.05	3.1	9.0	0.006	0.32	4.5	10.0	8.7	92	93
105J_1989_1319	0	5.1	1	42.3	1.0	0.9	0.11	1.3	7.4	0.004	0.33	4.6	9.2	8.0	112	112
105J_1989_1320	0	6.2	4	72.3	1.1	0.8	0.08	3.3	10.0	0.006	0.23	2.3	7.2	6.6	62	59
105J_1989_1322	0	6.1	3	86.4	1.0	1.0	0.06	2.0	8.3	0.009	0.32	4.7	9.0	8.3	119	126
105J_1989_1323	0	5.5	2	66.6	1.0	1.0	0.07	2.4	7.6	0.004	0.36	4.6	9.0	7.5	105	103
105J_1989_1324	0	4.7	<1	22.4	1.0	0.8	0.06	0.1	8.2	0.008	0.14	1.3	4.6	4.1	37	37
105J_1989_1325	0	5.6	1	54.1	1.0	0.9	0.06	2.7	8.1	0.005	0.18	2.2	6.4	5.5	56	55
105J_1989_1326	0	5.9	3	62.4	1.4	1.0	0.03	2.9	10.0	0.004	0.18	1.3	5.7	4.9	37	36
105J_1989_1327	0	6.6	2	70.3	1.4	1.0	0.06	2.9	11.0	0.007	0.20	2.0	7.2	5.8	47	52
105J_1989_1328	0	5.7	3	53.9	1.1	0.9	0.04	0.4	9.2	0.003	0.22	2.0	6.4	5.7	45	50
105J_1989_1329	0	6.6	2	49.6	1.4	1.1	0.07	2.6	9.4	0.007	0.17	2.2	6.6	5.7	44	54
105J_1989_1330	0	4.5	2	47.3	0.7	0.6	0.05	0.1	6.1	0.009	0.16	1.4	4.1	3.8	35	40

Unique ID	Rep Stat	W ICP-MS ppm 0.1	W INAA ppm 1	wt INAA g 0.01	Yb INAA ppm 2	Zn AAS ppm 2	Zn ICP-MS ppm 0.1
105J_1989_1295	0	1.3	5	30.02	2	646	575.6
105J_1989_1296	0	0.7	2	35.95	4	518	455.4
105J_1989_1297	0	0.1	1	16.36	<2	135	141.1
105J_1989_1298	0	0.3	2	30.27	3	320	282.8
105J_1989_1299	0	<0.1	<1	32.40	3	1120	1007.4
105J_1989_1300	0	0.2	2	25.21	3	781	624.1
105J_1989_1302	0	0.5	2	14.71	3	990	908.2
105J_1989_1303	0	0.2	<1	32.83	2	414	419.4
105J_1989_1304	0	<0.1	<1	26.77	2	221	195.7
105J_1989_1305	0	0.1	2	38.78	4	383	366.2
105J_1989_1306	0	0.4	2	42.61	3	500	445.6
105J_1989_1308	1	0.2	2	22.47	3	207	188.3
105J_1989_1309	2	0.2	1	45.73	3	183	172.9
105J_1989_1310	0	<0.1	2	39.81	3	877	765.5
105J_1989_1311	0	2.9	2	38.92	3	672	581.6
105J_1989_1312	0	<0.1	<1	20.62	2	766	665.1
105J_1989_1313	0	<0.1	<1	15.44	<2	271	241.1
105J_1989_1314	0	<0.1	<1	38.40	4	1036	901.7
105J_1989_1315	0	<0.1	1	36.60	2	1013	842.1
105J_1989_1316	0	<0.1	2	34.56	3	209	487.8
105J_1989_1317	0	<0.1	<1	38.56	3	193	176.7
105J_1989_1318	0	<0.1	2	21.76	4	403	382.5
105J_1989_1319	0	<0.1	2	34.93	3	251	226.9
105J_1989_1320	0	2.1	3	20.19	2	225	220.6
105J_1989_1322	0	0.3	2	33.61	3	960	914.1
105J_1989_1323	0	0.1	<1	39.92	3	630	611.8
105J_1989_1324	0	<0.1	2	35.07	3	114	106.3
105J_1989_1325	0	<0.1	2	45.39	3	283	277.8
105J_1989_1326	0	<0.1	2	35.58	3	158	157.0
105J_1989_1327	0	<0.1	2	33.26	3	197	199.3
105J_1989_1328	0	<0.1	1	35.64	3	139	250.0
105J_1989_1329	0	<0.1	2	41.32	3	208	202.0
105J_1989_1330	0	<0.1	<1	23.65	<2	239	220.2

Unique ID	Rep Stat	Ag AAS	Ag ICP-MS	Al ICP-MS	As HY-AAS	As ICP-MS	As INAA	Au INAA	Au1 INAA	Au1_wt -	B ICP-MS	Ba ICP-MS	Ba INAA	Bi ICP-MS	Br INAA	Ca ICP-MS
		ppm	ppb	%	ppm	ppm	ppm	ppb	ppb	g	ppm	ppm	ppm	ppm	ppm	%
		0.2	2	0.01	1	0.1	0.5	2	2	0.01	1	0.5	50	0.02	0.5	0.01
105J_1989_1331	0	0.7	748	0.72	8	4.6	14.0	6			2	662.2	4000	0.17	2.3	0.44
105J_1989_1332	1	1.6	1644	1.12	11	16.3	18.0	9	8	8.57	1	506.1	2800	0.18	8.8	0.84
105J_1989_1333	2	1.8	1443	1.01	10	15.1	19.0	11	10	27.35	<1	405.8	2700	0.16	8.1	0.71
105J_1989_1335	0	0.8	772	1.06	7	10.8	13.0	14	5	15.13	1	640.8	3300	0.18	8.8	0.51
105J_1989_1336	0	1.0	1034	0.80	12	18.0	22.0	23	25	30.55	<1	605.6	2400	0.19	6.2	0.37
105J_1989_1337	0	1.4	1323	1.03	13	18.6	22.0	13			2	869.0	3200	0.27	9.1	0.77
105J_1989_1338	0	2.3	1932	0.86	16	22.7	29.0	12			2	804.0	3400	0.20	7.5	0.62
105J_1989_1339	0	2.3	1707	0.88	20	28.0	36.0	16	17	28.14	<1	594.3	4800	0.22	4.1	0.48
105J_1989_1340	0	0.7	606	0.93	11	14.3	18.0	11			1	446.5	2300	0.21	5.0	0.45
105J_1989_1342	1	1.2	1092	0.83	18	25.5	31.0	13	13	15.28	<1	834.3	4900	0.23	4.0	0.37
105J_1989_1343	2	0.8	960	0.80	17	23.6	31.0	15	15	34.56	<1	771.9	5320	0.21	3.6	0.34
105J_1989_1344	0	0.5	630	0.71	28	34.7	36.0	4			1	772.8	2100	0.10	20.0	0.87
105J_1989_1345	0	<0.2	267	1.23	6	6.6	8.7	6			<1	383.6	2400	0.15	6.8	0.69
105J_1989_1346	0	<0.2	352	1.06	7	10.7	13.0	8			<1	462.3	2500	0.18	15.0	1.15
105J_1989_1347	0	0.2	289	1.07	2	3.6	5.5	5			<1	372.9	3500	0.13	3.8	0.59
105J_1989_1348	0	0.4	306	0.90	7	8.5	12.0	3			<1	450.5	2300	0.15	11.0	0.60
105J_1989_1349	0	<0.2	299	1.04	6	8.1	10.0	7			<1	644.1	3100	0.17	5.0	0.53
105J_1989_1350	0	0.8	623	1.14	13	21.2	26.0	10			1	1228.6	3400	0.15	18.0	1.20
105J_1989_1351	0	0.6	581	0.84	5	6.0	9.3	9			4	411.9	2800	0.13	5.1	0.58
105J_1989_1352	0	0.7	1095	1.25	6	7.8	10.0	15	12	21.13	4	492.8	2700	0.17	4.9	0.65
105J_1989_1354	0	0.7	732	1.19	6	6.8	9.5	9			7	1657.3	5150	0.11	18.0	1.03
105J_1989_1355	0	0.5	818	1.01	10	10.9	16.0	10			8	743.3	3800	0.15	3.5	0.47
105J_1989_1356	0	1.2	1153	1.27	10	22.5	29.0	13			5	1194.0	3100	0.22	13.0	0.27
105J_1989_1357	0	0.2	161	0.72	1	0.9	1.8	3			8	159.6	390	0.05	8.7	2.05
105J_1989_1358	0	0.6	620	0.94	18	21.6	30.0	8			5	1041.7	6660	0.27	2.3	0.66
105J_1989_1359	0	0.3	620	0.79	36	41.0	52.8	11			4	1103.9	5880	0.16	4.2	0.67
105J_1989_1360	0	0.6	775	1.12	10	13.2	18.0	11			3	625.7	3100	0.16	5.2	0.44
105J_1989_1362	0	0.6	647	1.00	13	15.5	22.0	16	12	22.49	5	757.5	5830	0.17	1.9	0.50
105J_1989_1363	0	<0.2	269	1.12	5	6.5	8.8	3			2	311.5	1900	0.17	5.3	0.39
105J_1989_1364	0	<0.2	319	1.00	11	12.4	18.0	11			4	481.6	3100	0.15	2.7	0.43
105J_1989_1365	0	0.4	302	0.99	9	10.9	14.0	9			5	724.9	3400	0.16	2.6	0.55
105J_1989_1366	1	0.5	445	0.92	9	10.8	14.0	6			4	430.2	2500	0.17	10.0	0.61
105J_1989_1367	2	0.4	449	0.98	9	12.8	16.0	6			4	528.5	2600	0.19	11.0	0.70

Unique ID	Rep Stat	Cd AAS	Cd ICP-MS	Ce INAA	Co AAS	Co ICP-MS	Co INAA	Cr ICP-MS	Cr INAA	Cs INAA	Cu AAS	Cu ICP-MS	Eu INAA	F ISE	Fe AAS	Fe ICP-MS	Fe INAA
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	pct	%	pct
		0.2	0.01	5	2	0.1	5	0.5	20	0.5	2	0.01	1	20	0.02	0.01	0.2
105J_1989_1331	0	3.0	2.93	52	4	4.2	6	18.4	100	5.0	66	68.38	1	633	1.16	1.03	1.5
105J_1989_1332	1	12.1	13.76	62	13	12.6	15	22.7	86	4.0	79	83.24	<1	526	2.30	2.33	3.0
105J_1989_1333	2	9.8	8.67	54	11	9.1	12	20.6	100	4.3	82	71.92	<1	520	2.42	2.09	2.9
105J_1989_1335	0	7.5	6.93	48	11	10.5	16	19.9	76	3.7	78	76.99	1	496	2.35	2.32	2.8
105J_1989_1336	0	7.5	7.52	46	22	20.8	22	17.7	97	3.4	116	110.80	1	480	2.51	2.48	3.0
105J_1989_1337	0	14.0	13.84	51	15	13.1	15	22.7	84	5.0	65	67.30	<1	555	2.64	2.72	3.1
105J_1989_1338	0	9.1	8.11	62	12	10.8	14	27.8	100	4.6	84	84.25	2	609	2.31	2.37	3.0
105J_1989_1339	0	11.9	11.14	63	14	12.2	15	30.4	130	4.9	130	123.69	1	551	2.68	2.59	3.2
105J_1989_1340	0	4.2	3.87	61	11	11.7	15	16.6	92	5.1	69	67.92	2	530	2.63	2.50	3.3
105J_1989_1342	1	6.9	6.31	55	12	11.3	15	19.4	100	4.7	94	84.76	1	492	3.04	2.81	3.7
105J_1989_1343	2	5.8	5.10	64	11	10.1	17	17.8	110	4.6	88	78.91	2	467	2.77	2.70	4.0
105J_1989_1344	0	6.8	6.08	26	10	9.1	10	12.0	31	2.3	43	39.67	<1	258	4.75	4.29	4.9
105J_1989_1345	0	2.3	1.93	79	14	12.2	16	16.7	71	4.5	42	42.32	<1	665	2.65	2.43	3.7
105J_1989_1346	0	2.0	1.84	77	13	10.9	14	14.6	58	4.1	50	50.25	1	542	2.84	2.70	3.8
105J_1989_1347	0	1.0	0.84	100	9	7.4	10	12.8	84	4.6	38	35.47	1	658	2.21	1.96	2.9
105J_1989_1348	0	1.8	1.64	71	10	8.3	12	13.7	50	4.1	39	34.17	1	447	2.54	2.23	3.2
105J_1989_1349	0	1.2	1.22	64	11	11.1	13	17.8	66	5.0	44	44.98	<1	560	2.33	2.49	3.1
105J_1989_1350	0	6.6	5.87	35	53	49.8	57	20.5	50	3.7	78	69.25	1	547	5.59	5.16	5.3
105J_1989_1351	0	1.1	0.88	51	7	3.3	6	15.0	60	4.0	33	29.04	<1	520	2.25	1.64	2.5
105J_1989_1352	0	3.1	2.93	66	8	7.9	13	16.8	77	5.7	66	61.00	1	626	2.31	2.10	3.2
105J_1989_1354	0	5.9	4.65	45	12	11.5	16	22.3	75	4.1	71	60.22	<1	830	2.97	2.64	3.7
105J_1989_1355	0	4.3	3.13	68	12	8.9	13	19.2	91	4.4	73	58.86	1	664	2.42	2.17	3.1
105J_1989_1356	0	7.2	6.51	40	29	27.0	32	19.7	62	4.5	94	84.47	2	417	13.95	12.88	13.0
105J_1989_1357	0	1.1	0.87	14	2	1.0	<5	3.9	<20	0.5	64	49.55	<1	142	0.69	0.43	0.6
105J_1989_1358	0	4.7	3.80	76	10	9.4	13	18.9	100	5.1	76	63.64	1	845	2.57	2.42	3.2
105J_1989_1359	0	4.9	4.16	75	15	13.5	20	17.0	75	4.1	59	57.12	2	757	3.49	3.28	4.3
105J_1989_1360	0	6.0	4.92	46	16	12.5	16	18.9	72	4.5	66	58.68	<1	559	2.86	2.64	3.3
105J_1989_1362	0	3.3	2.98	69	16	14.2	20	18.3	82	5.0	87	80.10	<1	685	2.91	2.69	3.5
105J_1989_1363	0	0.9	0.81	64	9	8.1	13	14.2	63	4.8	29	25.69	1	421	2.60	1.99	3.2
105J_1989_1364	0	1.6	1.29	66	14	12.0	17	16.1	76	5.5	63	52.63	2	695	2.51	2.32	3.3
105J_1989_1365	0	0.9	1.08	72	14	11.6	14	18.6	80	5.4	47	45.96	1	575	2.58	2.36	3.2
105J_1989_1366	1	1.0	0.92	49	7	6.8	9	16.8	64	4.3	46	40.86	<1	575	3.24	3.16	4.0
105J_1989_1367	2	1.1	1.27	56	8	8.4	12	17.6	70	4.5	43	42.66	<1	506	3.66	3.72	4.7

Unique ID	Rep Stat	Ga ICP-MS ppm 0.2	Hf INAA ppm 1	Hg CV-AAS ppb 10	Hg ICP-MS ppb 5	K ICP-MS % 0.01	La ICP-MS ppm 0.5	La INAA ppm 2	LOI GRAV pct 1.0	Lu INAA ppm 0.2	Mg ICP-MS % 0.01	Mn AAS ppm 5	Mn ICP-MS ppm 1	Mo AAS ppm 2	Mo ICP-MS ppm 0.01	Mo INAA ppm 1
105J_1989_1331	0	2.2	3	239	308	0.12	10.5	30	6.6	<0.2	0.26	24	29	7	7.93	8
105J_1989_1332	1	2.9	3	760	962	0.11	13.7	32	12.5	<0.2	0.42	1080	1216	7	7.67	7
105J_1989_1333	2	2.6	3	760	768	0.09	12.0	31	13.8	<0.2	0.40	694	681	6	6.49	6
105J_1989_1335	0	3.0	3	381	450	0.11	14.2	28	11.0	<0.2	0.42	1548	1781	5	5.04	4
105J_1989_1336	0	2.1	2	500	601	0.10	10.4	29	8.5	<0.2	0.23	4338	4205	5	6.22	5
105J_1989_1337	0	2.7	3	388	453	0.14	13.0	27	13.3	<0.2	0.33	2196	1291	10	10.24	11
105J_1989_1338	0	2.6	4	433	523	0.12	13.2	36	10.0	<0.2	0.23	649	700	10	12.72	14
105J_1989_1339	0	2.7	3	988	992	0.12	16.9	42	9.6	<0.2	0.30	1440	1204	26	26.75	31
105J_1989_1340	0	2.6	4	254	288	0.13	13.2	33	7.4	<0.2	0.28	774	1034	5	5.95	6
105J_1989_1342	1	2.3	4	381	436	0.08	12.4	33	7.5	<0.2	0.25	3654	1196	12	14.80	16
105J_1989_1343	2	2.3	4	358	389	0.08	12.5	38	6.4	<0.2	0.24	1980	1051	12	13.68	16
105J_1989_1344	0	1.7	2	317	344	0.07	6.1	15	35.6	<0.2	0.31	1476	6468	11	16.66	17
105J_1989_1345	0	3.3	4	179	198	0.11	16.3	41	12.3	<0.2	0.75	972	1663	<2	2.04	2
105J_1989_1346	0	2.8	4	175	186	0.09	13.1	37	19.1	<0.2	0.53	3276	2779	2	3.19	4
105J_1989_1347	0	2.6	5	146	154	0.08	18.2	51	9.6	<0.2	0.60	268	247	<2	0.83	<1
105J_1989_1348	0	2.2	4	134	139	0.10	11.4	36	11.4	<0.2	0.30	980	882	<2	1.60	<1
105J_1989_1349	0	2.9	4	123	140	0.13	13.2	33	6.6	<0.2	0.47	644	679	<2	2.34	1
105J_1989_1350	0	3.1	3	385	454	0.11	11.2	22	25.2	<0.2	0.46	>20000	>10000	8	9.17	9
105J_1989_1351	0	2.6	3	276	258	0.11	7.6	26	15.4	<0.2	0.31	420	134	<2	1.14	2
105J_1989_1352	0	3.2	3	396	373	0.11	9.0	31	13.5	<0.2	0.37	1314	1506	4	3.63	5
105J_1989_1354	0	3.5	2	370	302	0.15	11.9	26	19.4	<0.2	0.57	2115	2292	4	3.10	3
105J_1989_1355	0	2.6	4	329	287	0.13	9.9	34	7.1	<0.2	0.37	920	823	5	4.72	7
105J_1989_1356	0	3.2	2	512	592	0.14	8.5	23	21.0	<0.2	0.26	>20000	>10000	21	20.82	22
105J_1989_1357	0	0.9	<1	149	143	0.02	2.8	6	78.7	<0.2	0.35	438	286	4	2.74	4
105J_1989_1358	0	2.6	4	220	209	0.14	15.2	40	5.4	<0.2	0.42	496	497	6	6.00	6
105J_1989_1359	0	2.4	4	332	300	0.11	12.1	40	6.5	<0.2	0.35	3618	3296	6	5.92	7
105J_1989_1360	0	3.1	3	385	356	0.11	10.6	30	11.0	<0.2	0.37	1998	2177	5	5.41	6
105J_1989_1362	0	3.2	4	392	359	0.15	12.2	38	5.3	<0.2	0.49	990	1030	6	6.54	8
105J_1989_1363	0	3.3	3	93	71	0.09	7.5	32	14.7	<0.2	0.31	653	574	<2	1.46	3
105J_1989_1364	0	2.8	4	187	162	0.15	12.6	36	5.7	<0.2	0.48	868	820	<2	2.89	3
105J_1989_1365	0	3.2	4	183	177	0.15	14.7	39	6.0	<0.2	0.55	542	524	<2	1.99	<1
105J_1989_1366	1	2.7	3	112	120	0.12	7.8	27	12.1	<0.2	0.30	1422	1488	2	2.72	2
105J_1989_1367	2	3.1	4	134	149	0.12	9.0	30	13.6	<0.2	0.33	1854	2219	<2	3.19	2

Unique ID	Rep Stat	Na ICP-MS % 0.001	Na INAA pct 0.02	Ni AAS ppm 2	Ni ICP-MS ppm 0.1	P ICP-MS % 0.001	Pb AAS ppm 2	Pb ICP-MS ppm 0.01	Rb INAA ppm 5	S ICP-MS % 0.01	Sb HY-AAS ppm 0.2	Sb ICP-MS ppm 0.02	Sb INAA ppm 0.1	Sc ICP-MS ppm 0.1	Sc INAA ppm 0.2	Se ICP-MS ppm 0.1
105J_1989_1331	0	0.005	0.24	72	68.5	0.161	10	12.91	100	0.19	5.0	5.56	8.2	2.8	9.0	27.4
105J_1989_1332	1	0.006	0.54	185	177.9	0.237	7	11.22	99	0.08	3.8	3.72	5.3	2.5	10.0	5.5
105J_1989_1333	2	0.005	0.56	173	147.4	0.198	10	10.28	97	0.06	3.3	3.28	5.1	2.2	10.0	4.4
105J_1989_1335	0	0.009	0.55	107	102.2	0.157	9	12.57	84	0.09	2.0	2.14	3.5	2.3	8.8	2.7
105J_1989_1336	0	0.003	0.21	110	106.4	0.134	13	14.08	76	0.10	3.2	3.25	5.0	2.2	7.3	4.3
105J_1989_1337	0	0.007	0.42	205	187.4	0.258	12	13.02	96	0.11	3.5	3.53	5.5	2.4	8.2	5.4
105J_1989_1338	0	0.006	0.40	164	154.2	0.278	12	13.98	96	0.08	5.0	4.92	8.1	2.5	8.8	7.0
105J_1989_1339	0	0.004	0.32	116	107.7	0.187	12	14.54	110	0.11	12.0	10.85	16.9	2.5	10.0	7.6
105J_1989_1340	0	0.006	0.40	75	68.4	0.147	13	14.97	110	0.06	3.6	2.52	4.3	2.4	10.0	2.5
105J_1989_1342	1	0.005	0.45	94	87.4	0.158	10	14.27	100	0.07	5.0	5.33	8.0	2.4	10.0	4.1
105J_1989_1343	2	0.004	0.50	87	76.6	0.145	9	13.10	100	0.06	6.0	5.03	8.2	2.3	11.0	3.4
105J_1989_1344	0	0.011	0.48	95	87.9	0.333	5	6.63	53	0.21	2.1	4.37	4.9	1.0	5.3	6.8
105J_1989_1345	0	0.008	0.91	49	45.0	0.139	9	11.75	110	0.08	1.1	0.84	1.4	2.5	11.0	1.8
105J_1989_1346	0	0.008	0.66	47	41.1	0.154	8	13.38	99	0.13	1.1	1.36	2.0	2.3	10.0	2.0
105J_1989_1347	0	0.007	0.75	26	23.5	0.135	9	11.53	120	0.07	0.8	0.60	1.1	2.3	12.0	1.1
105J_1989_1348	0	0.005	0.41	33	28.1	0.144	9	11.19	97	0.06	1.3	1.05	2.0	2.2	8.7	1.9
105J_1989_1349	0	0.005	0.36	35	33.0	0.144	10	12.88	110	0.05	2.8	1.29	2.4	2.8	8.9	1.4
105J_1989_1350	0	0.007	0.34	261	250.5	0.178	8	9.43	87	0.11	2.3	2.07	3.5	3.5	7.6	4.4
105J_1989_1351	0	0.007	0.50	30	22.8	0.162	7	8.36	95	0.13	1.5	1.18	2.4	1.8	7.4	5.5
105J_1989_1352	0	0.007	0.70	54	50.3	0.167	7	9.66	110	0.08	1.7	1.25	2.7	2.4	11.0	3.1
105J_1989_1354	0	0.008	0.48	102	92.3	0.283	7	7.64	87	0.13	1.2	1.40	2.4	2.9	8.7	4.8
105J_1989_1355	0	0.005	0.45	74	60.0	0.148	7	10.00	110	0.05	3.6	2.17	4.7	2.4	10.0	2.5
105J_1989_1356	0	0.004	0.17	274	298.3	0.293	11	12.85	84	0.53	6.0	3.80	6.7	3.8	8.7	9.6
105J_1989_1357	0	0.006	0.12	24	18.2	0.092	<2	2.10	10	1.42	0.8	1.34	1.4	0.5	1.4	4.0
105J_1989_1358	0	0.006	0.28	66	60.1	0.272	11	12.52	110	0.06	5.0	3.66	6.3	2.6	10.0	3.0
105J_1989_1359	0	0.004	0.33	80	75.7	0.244	8	9.86	97	0.07	4.0	2.80	4.8	2.6	9.0	3.1
105J_1989_1360	0	0.005	0.44	74	65.7	0.154	7	10.33	110	0.05	2.8	1.98	4.1	2.4	8.3	2.9
105J_1989_1362	0	0.004	0.30	68	62.7	0.198	9	12.41	110	0.10	3.6	2.85	5.1	3.1	9.3	4.0
105J_1989_1363	0	0.013	1.20	23	19.6	0.104	7	9.97	120	0.07	0.6	0.41	1.0	1.6	10.0	0.8
105J_1989_1364	0	0.004	0.35	43	36.3	0.151	9	11.70	110	0.05	2.0	1.18	2.6	2.9	10.0	1.6
105J_1989_1365	0	0.005	0.41	36	35.5	0.154	9	11.84	110	0.06	1.6	1.04	2.1	3.6	10.0	1.5
105J_1989_1366	1	0.005	0.33	36	33.3	0.150	8	10.27	110	0.07	1.7	1.30	2.5	1.9	8.6	1.7
105J_1989_1367	2	0.006	0.34	37	36.4	0.155	8	12.56	110	0.07	1.5	1.33	2.4	2.3	8.8	1.8

Unique ID	Rep Stat	Sm INAA	Sn AAS	Sr ICP-MS	Ta INAA	Tb INAA	Te ICP-MS	Th ICP-MS	Th INAA	Ti ICP-MS	Tl ICP-MS	U ICP-MS	U INAA	U NADNC	V AAS	V ICP-MS
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.5	0.5	0.5	0.02	0.1	0.2	0.001	0.02	0.1	0.2	0.5	5	2
105J_1989_1331	0	5.3	<1	66.0	0.9	1.0	0.08	2.0	7.1	0.004	0.33	5.5	10.0	8.3	98	114
105J_1989_1332	1	5.8	3	79.3	1.0	1.2	0.07	1.1	7.9	0.005	0.39	6.7	10.0	9.8	109	121
105J_1989_1333	2	5.7	2	70.7	1.0	1.1	0.06	1.0	7.6	0.005	0.32	6.5	11.0	10.1	118	103
105J_1989_1335	0	5.0	3	95.6	0.8	0.9	0.08	1.0	6.9	0.006	0.25	7.0	11.0	9.8	65	73
105J_1989_1336	0	5.5	2	125.6	0.9	0.8	0.11	1.0	5.7	0.004	0.23	12.8	17.0	15.1	64	68
105J_1989_1337	0	5.3	5	69.1	0.9	0.9	0.10	1.0	7.2	0.006	0.45	6.5	10.0	9.7	90	119
105J_1989_1338	0	6.6	7	91.2	1.1	1.0	0.10	1.0	8.1	0.006	0.52	11.0	18.0	14.1	151	181
105J_1989_1339	0	7.2	4	119.0	1.0	1.4	0.13	1.0	7.9	0.005	0.67	13.3	20.3	17.8	294	295
105J_1989_1340	0	5.8	5	56.3	1.1	1.0	0.09	1.1	8.0	0.006	0.23	3.6	7.8	6.4	61	66
105J_1989_1342	1	5.8	4	86.6	0.7	0.9	0.08	1.1	7.6	0.005	0.35	6.8	11.0	10.1	90	100
105J_1989_1343	2	6.2	4	83.4	0.9	1.1	0.11	1.2	7.6	0.006	0.33	6.2	12.0	9.4	96	101
105J_1989_1344	0	2.3	6	71.5	<0.5	<0.5	0.06	0.5	4.2	0.005	0.28	11.3	12.0	11.7	95	113
105J_1989_1345	0	5.8	6	62.5	1.1	0.8	0.03	3.6	11.0	0.004	0.12	2.4	5.5	4.8	31	30
105J_1989_1346	0	5.2	6	89.9	1.0	0.7	0.03	1.9	10.0	0.004	0.14	2.5	5.2	4.7	41	37
105J_1989_1347	0	6.5	5	57.3	1.2	0.9	<0.02	4.3	12.0	0.002	0.12	1.5	5.2	4.7	23	23
105J_1989_1348	0	5.7	5	64.2	0.9	0.8	0.02	2.5	10.0	0.003	0.12	2.8	5.7	5.3	46	44
105J_1989_1349	0	5.8	5	63.1	1.1	0.9	0.04	3.1	10.0	0.005	0.15	2.0	5.0	4.3	48	49
105J_1989_1350	0	4.4	8	105.8	1.1	0.7	0.07	1.7	6.7	0.005	0.25	5.2	8.6	8.1	67	63
105J_1989_1351	0	4.1	5	69.3	0.8	0.7	0.04	1.3	6.9	0.005	0.16	2.3	5.7	5.1	74	67
105J_1989_1352	0	5.7	5	74.9	0.9	1.1	0.06	0.8	8.0	0.007	0.22	7.0	11.0	9.8	80	87
105J_1989_1354	0	4.3	7	98.8	0.7	0.8	0.07	1.5	6.3	0.006	0.24	5.1	8.0	7.3	77	84
105J_1989_1355	0	5.8	4	66.8	1.1	1.0	0.05	1.5	8.5	0.006	0.24	5.5	11.0	9.1	107	112
105J_1989_1356	0	4.6	3	42.4	0.7	0.9	0.13	2.8	6.2	0.005	0.67	9.9	11.0	11.6	169	188
105J_1989_1357	0	0.9	8	109.1	<0.5	<0.5	0.02	0.2	1.0	0.006	0.05	1.8	2.1	2.5	30	21
105J_1989_1358	0	6.4	7	95.2	1.1	1.1	0.08	2.8	9.0	0.011	0.27	4.7	9.4	8.1	94	100
105J_1989_1359	0	6.7	5	98.1	1.0	1.2	0.08	2.4	8.5	0.007	0.27	3.8	8.0	6.9	99	86
105J_1989_1360	0	6.0	6	59.8	1.0	1.2	0.10	1.0	8.0	0.006	0.30	4.4	8.7	7.9	100	104
105J_1989_1362	0	6.6	5	85.8	1.1	1.1	0.07	2.6	10.0	0.007	0.30	4.3	9.4	7.4	95	107
105J_1989_1363	0	4.8	4	33.9	1.1	0.8	<0.02	0.7	10.0	0.004	0.10	1.3	4.4	4.2	25	29
105J_1989_1364	0	5.7	5	66.8	1.1	0.9	0.06	2.4	10.0	0.005	0.19	2.1	6.3	5.0	50	56
105J_1989_1365	0	6.2	6	64.7	1.2	1.0	0.08	3.6	11.0	0.006	0.17	1.8	5.7	5.1	42	46
105J_1989_1366	1	4.4	5	69.4	0.9	0.7	0.04	0.9	8.5	0.006	0.14	1.8	4.4	4.3	61	63
105J_1989_1367	2	4.8	5	75.8	0.8	0.7	0.05	1.3	9.2	0.006	0.15	2.4	5.2	4.6	57	64

Unique ID	Rep Stat	W ICP-MS ppm 0.1	W INAA ppm 1	wt INAA g 0.01	Yb INAA ppm 2	Zn AAS ppm 2	Zn ICP-MS ppm 0.1
105J_1989_1331	0	<0.1	2	34.93	<2	493	487.8
105J_1989_1332	1	0.1	1	13.98	4	1340	1345.8
105J_1989_1333	2	<0.1	2	28.53	3	1160	1057.9
105J_1989_1335	0	<0.1	1	18.14	3	728	659.8
105J_1989_1336	0	<0.1	1	34.14	3	357	381.0
105J_1989_1337	0	0.1	<1	33.19	2	1190	1179.7
105J_1989_1338	0	0.2	1	36.06	3	1150	1134.2
105J_1989_1339	0	0.1	2	33.88	5	792	715.7
105J_1989_1340	0	<0.1	<1	27.49	2	541	509.1
105J_1989_1342	1	<0.1	1	19.63	3	699	620.1
105J_1989_1343	2	<0.1	2	41.81	4	616	519.5
105J_1989_1344	0	<0.1	<1	16.98	<2	669	561.9
105J_1989_1345	0	<0.1	<1	34.09	3	258	245.8
105J_1989_1346	0	<0.1	<1	28.86	3	255	239.7
105J_1989_1347	0	<0.1	1	34.32	2	168	153.8
105J_1989_1348	0	<0.1	1	33.48	3	200	173.9
105J_1989_1349	0	<0.1	2	34.45	2	173	176.9
105J_1989_1350	0	<0.1	1	19.84	<2	1330	1227.3
105J_1989_1351	0	<0.1	<1	26.81	<2	177	165.6
105J_1989_1352	0	<0.1	1	26.78	3	270	267.8
105J_1989_1354	0	<0.1	<1	24.77	2	254	455.3
105J_1989_1355	0	<0.1	2	35.57	3	424	380.9
105J_1989_1356	0	<0.1	2	21.49	3	1240	1124.8
105J_1989_1357	0	<0.1	<1	13.20	<2	92	81.5
105J_1989_1358	0	1.0	3	37.53	3	484	428.0
105J_1989_1359	0	0.1	2	42.31	3	435	390.9
105J_1989_1360	0	<0.1	1	33.58	3	421	370.7
105J_1989_1362	0	<0.1	3	28.23	3	380	358.7
105J_1989_1363	0	<0.1	<1	30.08	2	140	125.4
105J_1989_1364	0	<0.1	<1	38.92	3	193	173.9
105J_1989_1365	0	<0.1	1	40.23	2	152	156.9
105J_1989_1366	1	<0.1	2	15.55	<2	227	199.7
105J_1989_1367	2	0.1	2	30.03	2	216	209.3

Unique ID	Rep Stat	Ag AAS	Ag ICP-MS	Al ICP-MS	As HY-AAS	As ICP-MS	As INAA	Au INAA	Au1 INAA	Au1_wt -	B ICP-MS	Ba ICP-MS	Ba INAA	Bi ICP-MS	Br INAA	Ca ICP-MS
		ppm	ppb	%	ppm	ppm	ppm	ppb	ppb	g	ppm	ppm	ppm	ppm	ppm	%
		0.2	2	0.01	1	0.1	0.5	2	2	0.01	1	0.5	50	0.02	0.5	0.01
105J_1989_1368	0	0.2	340	0.77	7	7.9	11.0	5			4	620.5	2900	0.14	2.5	0.72
105J_1989_1369	0	0.3	160	0.69	5	5.9	8.7	3			2	202.4	1700	0.14	5.0	0.63
105J_1989_1370	0	<0.2	344	1.02	5	6.2	8.5	6			2	365.0	2400	0.16	5.4	0.73
105J_1989_1371	0	<0.2	161	0.74	2	3.1	5.2	4			2	231.5	2000	0.10	2.9	0.39
105J_1989_1372	0	0.9	1066	1.18	18	20.6	35.0	17	16	24.06	2	613.9	4500	0.49	2.8	0.35
105J_1989_1373	0	1.3	1637	1.19	58	62.8	82.9	35	33	26.67	2	1225.4	5200	0.27	6.7	0.28
105J_1989_1374	0	<0.2	222	0.83	7	9.1	13.0	5			1	342.8	2200	0.19	2.5	0.35
105J_1989_1375	0	0.2	307	0.47	2	<0.1	3.6	3			4	323.6	780	0.06	17.0	0.95
105J_1989_1376	0	0.9	944	1.20	12	18.0	23.0	17	13	26.92	4	883.0	5990	0.21	7.3	0.66
105J_1989_1377	0	0.4	682	0.76	20	29.1	35.0	8			4	1469.7	3600	0.44	4.4	0.64
105J_1989_1378	0	0.2	915	1.94	210	300.4	323.0	7			4	1005.0	2500	3.93	19.0	0.80
105J_1989_1379	0	0.2	404	1.13	18	22.1	30.0	9			3	293.2	1600	1.79	4.9	0.55
105J_1989_1382	1	<0.2	275	1.26	6	8.7	10.0	6			3	298.7	1600	0.29	2.9	0.34
105J_1989_1383	2	0.4	382	1.43	6	9.0	11.0	5			5	317.4	1300	0.32	6.6	0.52
105J_1989_1384	0	<0.2	269	1.01	11	14.7	21.0	6			3	364.4	2400	0.26	1.3	0.47
105J_1989_1385	0	<0.2	87	0.31	<1	0.6	1.2	<2			8	336.8	490	0.02	21.0	2.08
105J_1989_1386	0	<0.2	102	1.15	3	4.4	6.8	2			3	268.2	1600	0.19	3.6	0.36
105J_1989_1387	0	<0.2	225	0.70	2	3.5	5.2	2			2	276.0	1100	0.15	9.2	1.26
105J_1989_1388	0	<0.2	257	0.78	6	7.5	10.0	3			2	301.1	1300	0.18	7.3	0.87
105J_1989_1390	0	<0.2	83	0.31	<1	0.4	1.3	<2			7	370.3	670	0.03	17.0	2.15
105J_1989_1391	0	<0.2	213	0.90	8	9.9	14.0	4			3	432.8	1800	0.22	6.7	0.57
105J_1989_1392	0	<0.2	59	0.95	<1	0.6	1.9	<2			2	75.0	790	0.04	14.0	0.75
105J_1989_1393	0	<0.2	107	0.91	2	3.3	4.2	3			3	294.8	950	0.13	6.0	0.63
105J_1989_1394	0	<0.2	124	1.12	2	4.0	5.2	<2			4	302.4	810	0.15	8.3	0.62
105J_1989_1395	0	<0.2	132	0.86	2	3.7	5.4	<2			3	257.1	1100	0.17	5.4	0.74
105J_1989_1396	0	<0.2	49	0.57	3	4.7	8.1	<2			<1	124.7	690	0.11	2.6	0.26
105J_1989_1397	0	<0.2	120	0.95	2	3.5	4.9	<2			1	262.6	800	0.16	8.1	0.83
105J_1989_1398	0	<0.2	114	1.01	3	5.3	6.9	<2			3	276.6	700	0.20	11.0	0.86
105J_1989_1399	0	<0.2	156	0.74	8	9.4	13.0	<2			2	197.6	990	0.30	5.9	0.32
105J_1989_1400	0	<0.2	325	1.16	7	8.5	11.0	5			2	465.6	1600	0.28	6.3	0.51
105J_1989_1402	0	<0.2	217	0.96	5	7.0	9.5	8			2	346.7	1800	0.19	1.9	0.40
105J_1989_1403	0	0.6	292	1.30	8	12.0	15.0	9			3	417.0	1800	0.27	4.5	0.48
105J_1989_1405	0	<0.2	344	1.14	9	11.8	16.0	9			2	646.3	2200	0.28	5.5	0.38

Unique ID	Rep Stat	Cd AAS	Cd ICP-MS	Ce INAA	Co AAS	Co ICP-MS	Co INAA	Cr ICP-MS	Cr INAA	Cs INAA	Cu AAS	Cu ICP-MS	Eu INAA	F ISE	Fe AAS	Fe ICP-MS	Fe INAA
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	pct	%	pct
		0.2	0.01	5	2	0.1	5	0.5	20	0.5	2	0.01	1	20	0.02	0.01	0.2
105J_1989_1368	0	1.8	1.61	51	10	7.5	11	15.2	53	3.3	44	41.67	<1	610	1.99	1.77	2.4
105J_1989_1369	0	0.7	0.71	99	8	7.8	11	10.6	63	3.8	24	22.49	<1	490	1.90	1.44	2.3
105J_1989_1370	0	1.6	1.44	87	11	10.0	12	14.5	64	5.1	45	41.93	2	592	2.46	2.07	2.9
105J_1989_1371	0	0.6	0.64	80	11	7.0	11	10.7	46	3.3	24	20.75	2	416	1.98	1.50	2.1
105J_1989_1372	0	6.9	5.31	53	12	10.8	14	26.0	80	5.2	103	86.40	1	577	2.16	1.70	2.3
105J_1989_1373	0	3.7	3.76	67	16	16.9	20	24.6	92	5.5	111	98.30	2	504	3.91	4.17	5.6
105J_1989_1374	0	1.5	1.30	88	14	13.4	18	13.1	60	4.7	40	36.60	2	396	2.64	2.42	3.6
105J_1989_1375	0	5.8	4.86	23	4	2.6	<5	8.6	21	1.6	62	58.54	<1	272	1.08	0.69	0.9
105J_1989_1376	0	7.6	8.22	61	18	18.6	21	21.5	89	4.9	90	95.44	2	525	3.35	3.38	4.6
105J_1989_1377	0	9.9	8.96	62	28	32.2	36	13.9	58	4.4	96	92.38	1	248	2.48	2.26	2.9
105J_1989_1378	0	3.2	2.53	56	12	11.4	14	26.9	80	13.0	82	70.77	<1	407	3.66	3.36	4.1
105J_1989_1379	0	1.0	0.69	64	11	8.7	14	14.5	65	8.9	55	46.15	<1	412	1.78	1.31	2.2
105J_1989_1382	1	0.7	0.77	62	12	9.8	13	17.5	59	5.0	48	44.99	<1	522	2.43	1.85	2.3
105J_1989_1383	2	2.0	1.59	53	12	10.7	10	15.9	36	5.5	81	69.93	<1	439	1.90	1.49	1.8
105J_1989_1384	0	1.3	1.29	63	17	16.9	21	17.7	51	4.3	54	53.82	2	788	2.69	2.43	3.3
105J_1989_1385	0	0.8	0.69	12	2	1.0	<5	3.4	<20	<0.5	23	20.49	<1	71	0.66	0.51	0.8
105J_1989_1386	0	<0.2	0.28	87	12	12.2	20	21.5	83	5.3	31	29.72	<1	431	2.78	2.62	4.4
105J_1989_1387	0	0.7	0.80	48	7	5.6	10	9.6	31	3.5	29	26.53	<1	278	1.95	1.65	2.7
105J_1989_1388	0	1.1	1.04	60	10	9.0	12	11.7	55	3.8	34	32.95	<1	396	2.99	2.48	3.4
105J_1989_1390	0	4.4	3.30	16	3	1.8	<5	4.4	<20	<0.5	25	20.62	<1	106	0.52	0.44	0.9
105J_1989_1391	0	0.7	0.91	83	15	12.9	18	16.2	67	4.1	34	32.39	<1	448	2.92	2.85	4.0
105J_1989_1392	0	<0.2	0.20	36	3	1.9	6	5.7	<20	1.7	18	17.34	1	304	0.56	0.52	2.1
105J_1989_1393	0	0.3	0.51	56	12	9.2	15	21.4	42	2.9	31	29.28	<1	365	2.44	1.87	2.7
105J_1989_1394	0	0.4	0.60	49	13	10.3	13	25.0	44	3.0	27	25.23	<1	396	2.49	1.95	2.5
105J_1989_1395	0	0.3	0.37	47	12	9.9	14	19.9	49	3.3	30	26.20	<1	363	2.17	1.77	2.4
105J_1989_1396	0	<0.2	0.14	60	11	8.7	17	12.4	58	3.5	18	15.46	1	362	2.34	1.93	3.3
105J_1989_1397	0	0.4	0.58	59	12	10.1	18	16.1	61	4.9	24	23.68	<1	385	2.50	2.21	3.4
105J_1989_1398	0	0.2	0.49	54	9	7.8	11	17.5	36	3.6	22	21.46	<1	413	5.17	4.98	6.4
105J_1989_1399	0	0.5	0.62	66	17	14.7	22	13.3	42	5.9	40	37.90	<1	548	2.93	2.85	3.9
105J_1989_1400	0	1.0	1.03	53	15	14.2	20	20.1	54	5.8	43	42.34	<1	603	2.98	2.74	3.5
105J_1989_1402	0	0.7	0.62	54	9	9.7	16	19.8	74	3.7	30	31.82	<1	466	1.92	1.83	2.7
105J_1989_1403	0	1.0	0.97	54	12	14.0	23	24.7	72	5.1	56	60.01	1	630	2.70	2.63	3.7
105J_1989_1405	0	2.1	1.67	53	11	11.2	18	17.1	64	4.6	60	54.95	<1	610	2.40	2.40	3.4

Unique ID	Rep Stat	Ga ICP-MS ppm 0.2	Hf INAA ppm 1	Hg CV-AAS ppb 10	Hg ICP-MS ppb 5	K ICP-MS % 0.01	La ICP-MS ppm 0.5	La INAA ppm 2	LOI GRAV pct 1.0	Lu INAA ppm 0.2	Mg ICP-MS % 0.01	Mn AAS ppm 5	Mn ICP-MS ppm 1	Mo AAS ppm 2	Mo ICP-MS ppm 0.01	Mo INAA ppm 1
105J_1989_1368	0	2.4	3	164	146	0.13	10.3	29	8.3	<0.2	0.30	351	326	<2	2.01	<1
105J_1989_1369	0	2.0	6	112	92	0.08	12.2	50	10.0	<0.2	0.26	156	155	<2	0.53	<1
105J_1989_1370	0	2.5	6	134	124	0.10	15.3	44	10.8	<0.2	0.49	438	425	<2	1.92	<1
105J_1989_1371	0	2.2	5	86	71	0.08	11.7	41	7.2	<0.2	0.27	226	200	<2	0.36	<1
105J_1989_1372	0	3.5	3	288	251	0.11	16.8	32	11.7	<0.2	0.64	624	586	4	3.15	3
105J_1989_1373	0	3.0	4	274	270	0.14	18.8	39	11.1	<0.2	0.26	2052	3174	16	15.00	17
105J_1989_1374	0	2.4	7	94	67	0.10	10.9	46	5.0	<0.2	0.30	672	651	2	2.24	1
105J_1989_1375	0	1.2	1	277	248	0.06	4.6	12	51.8	<0.2	0.27	259	199	6	6.55	6
105J_1989_1376	0	2.9	4	277	356	0.13	15.8	36	6.8	<0.2	0.50	1350	1898	7	6.76	7
105J_1989_1377	0	2.7	5	310	331	0.11	13.1	33	8.4	<0.2	0.33	>20000	>10000	23	24.21	26
105J_1989_1378	0	4.8	2	241	233	0.21	14.8	26	37.6	<0.2	0.40	792	579	4	3.00	3
105J_1989_1379	0	3.0	4	155	134	0.11	15.2	38	14.2	<0.2	0.33	248	123	<2	0.71	<1
105J_1989_1382	1	3.5	3	176	135	0.11	11.0	33	13.2	<0.2	0.42	158	161	<2	0.88	<1
105J_1989_1383	2	3.5	3	227	184	0.13	10.2	26	26.2	<0.2	0.37	218	199	<2	0.90	<1
105J_1989_1384	0	3.3	4	176	190	0.14	14.9	36	4.8	<0.2	0.70	1062	1091	2	2.98	4
105J_1989_1385	0	0.6	<1	144	130	0.02	1.6	4	79.6	<0.2	0.15	630	550	<2	0.53	2
105J_1989_1386	0	3.7	5	90	88	0.13	12.1	47	7.4	<0.2	0.53	430	484	<2	0.66	<1
105J_1989_1387	0	2.1	3	186	150	0.07	4.9	27	28.4	<0.2	0.17	635	535	<2	0.41	1
105J_1989_1388	0	2.3	4	241	193	0.09	6.0	32	18.8	<0.2	0.20	1170	975	<2	0.95	2
105J_1989_1390	0	0.5	<1	108	89	0.01	1.3	6	72.2	<0.2	0.42	1638	1256	<2	0.77	3
105J_1989_1391	0	2.7	6	144	141	0.10	10.4	41	10.0	<0.2	0.41	1512	1724	<2	1.36	2
105J_1989_1392	0	2.7	2	50	41	0.04	4.5	20	20.8	<0.2	0.12	80	77	<2	0.29	3
105J_1989_1393	0	3.1	5	104	99	0.07	8.5	35	19.0	<0.2	0.38	348	321	<2	0.53	1
105J_1989_1394	0	3.7	4	112	84	0.09	8.8	30	25.8	<0.2	0.36	712	652	<2	0.68	2
105J_1989_1395	0	2.9	5	122	94	0.09	8.4	34	17.2	<0.2	0.30	339	326	<2	0.36	1
105J_1989_1396	0	2.0	6	94	60	0.07	6.1	43	7.0	<0.2	0.23	266	284	<2	0.26	1
105J_1989_1397	0	2.8	5	148	103	0.11	8.2	41	17.4	<0.2	0.27	974	794	<2	0.27	1
105J_1989_1398	0	3.2	5	176	137	0.10	7.4	36	17.2	<0.2	0.26	514	477	<2	0.62	2
105J_1989_1399	0	2.3	4	198	140	0.12	8.1	42	8.2	<0.2	0.23	923	880	<2	2.26	3
105J_1989_1400	0	3.3	5	216	191	0.16	12.1	37	9.8	<0.2	0.43	1188	1237	2	1.74	3
105J_1989_1402	0	3.2	6	97	83	0.11	14.6	41	5.6	<0.2	0.43	345	357	<2	1.52	3
105J_1989_1403	0	3.9	5	151	153	0.15	17.8	42	7.4	<0.2	0.61	1116	1227	<2	2.71	4
105J_1989_1405	0	3.2	6	180	162	0.14	12.8	41	7.8	<0.2	0.46	1080	1093	2	2.68	4

Unique ID	Rep Stat	Na ICP-MS % 0.001	Na INAA pct 0.02	Ni AAS ppm 2	Ni ICP-MS ppm 0.1	P ICP-MS % 0.001	Pb AAS ppm 2	Pb ICP-MS ppm 0.01	Rb INAA ppm 5	S ICP-MS % 0.01	Sb HY-AAS ppm 0.2	Sb ICP-MS ppm 0.02	Sb INAA ppm 0.1	Sc ICP-MS ppm 0.1	Sc INAA ppm 0.2	Se ICP-MS ppm 0.1
105J_1989_1368	0	0.006	0.33	35	32.3	0.163	9	11.53	98	0.07	1.7	1.65	2.8	2.2	7.5	1.7
105J_1989_1369	0	0.006	0.63	23	21.6	0.088	8	11.59	120	0.07	2.3	2.09	3.8	1.8	8.9	0.8
105J_1989_1370	0	0.007	0.61	33	30.4	0.128	14	13.44	110	0.07	1.3	1.18	2.2	2.4	10.0	1.5
105J_1989_1371	0	0.007	0.56	22	19.5	0.093	6	8.27	100	0.09	0.6	0.39	1.0	1.5	7.7	0.7
105J_1989_1372	0	0.007	0.56	89	78.5	0.108	21	27.02	110	0.14	4.0	3.82	6.9	2.6	8.4	5.2
105J_1989_1373	0	0.007	0.55	78	82.2	0.316	53	51.09	100	0.29	11.0	9.54	16.5	1.6	10.0	5.6
105J_1989_1374	0	0.005	0.46	34	31.1	0.121	17	16.86	110	0.06	1.9	1.14	2.7	2.1	11.0	1.3
105J_1989_1375	0	0.007	0.23	28	24.9	0.117	2	5.20	33	0.93	0.8	1.55	1.5	1.3	3.1	15.6
105J_1989_1376	0	0.006	0.48	91	99.6	0.162	12	15.21	110	0.15	4.0	3.50	6.2	3.0	11.0	4.1
105J_1989_1377	0	0.011	0.62	256	285.9	0.106	13	15.70	100	0.06	3.6	3.06	4.6	2.3	8.9	2.7
105J_1989_1378	0	0.010	0.33	62	52.3	0.143	32	34.24	140	0.17	8.0	4.88	9.5	3.5	12.0	18.7
105J_1989_1379	0	0.013	0.87	30	22.6	0.067	23	20.49	120	0.17	2.9	2.19	5.0	2.3	11.0	2.3
105J_1989_1382	1	0.011	0.66	30	28.0	0.090	10	13.45	100	0.15	1.2	0.54	1.6	3.4	10.0	1.3
105J_1989_1383	2	0.012	0.44	39	31.9	0.078	11	12.71	90	0.31	0.8	0.57	1.4	3.1	8.6	1.7
105J_1989_1384	0	0.008	0.54	36	36.3	0.120	12	16.33	110	0.11	2.2	1.46	3.3	3.3	9.1	1.4
105J_1989_1385	0	0.012	0.24	7	5.7	0.112	<2	2.09	8	0.69	0.2	0.40	0.5	0.8	1.9	0.9
105J_1989_1386	0	0.007	1.00	28	28.7	0.070	9	13.76	130	0.06	0.4	0.29	0.8	3.2	14.0	0.4
105J_1989_1387	0	0.015	1.20	18	15.8	0.075	8	9.30	85	0.24	0.4	0.48	0.9	2.1	7.9	1.8
105J_1989_1388	0	0.014	0.93	24	23.0	0.071	10	13.30	90	0.15	0.8	0.68	1.3	2.8	9.1	1.6
105J_1989_1390	0	0.019	0.54	16	12.9	0.069	<2	1.00	16	0.88	0.3	0.50	0.6	0.7	2.2	1.5
105J_1989_1391	0	0.008	0.83	29	27.5	0.079	14	15.43	110	0.10	1.0	0.62	1.5	3.2	11.0	1.1
105J_1989_1392	0	0.043	2.20	6	5.8	0.113	<2	2.44	46	0.22	0.2	0.12	0.4	1.0	7.1	0.6
105J_1989_1393	0	0.012	1.00	28	26.5	0.073	5	9.41	60	0.26	0.4	0.35	0.6	2.6	11.0	1.1
105J_1989_1394	0	0.015	0.70	29	27.2	0.081	8	10.51	59	0.37	0.3	0.27	0.5	2.5	8.9	1.0
105J_1989_1395	0	0.012	0.78	25	24.6	0.071	8	11.04	70	0.17	0.4	0.30	0.8	2.8	10.0	0.7
105J_1989_1396	0	0.007	1.00	19	17.6	0.049	7	9.49	76	0.07	0.3	0.17	0.6	2.1	12.0	0.4
105J_1989_1397	0	0.012	1.00	25	24.3	0.065	9	11.96	99	0.14	0.3	0.16	0.5	2.9	13.0	0.6
105J_1989_1398	0	0.011	0.77	19	20.3	0.085	9	14.03	80	0.16	0.3	0.17	0.5	3.3	12.0	1.3
105J_1989_1399	0	0.006	0.40	29	29.0	0.058	21	23.04	97	0.07	1.1	0.55	1.4	3.2	15.0	0.9
105J_1989_1400	0	0.007	0.41	30	32.5	0.087	12	15.17	94	0.07	1.1	0.69	1.7	3.7	13.0	1.3
105J_1989_1402	0	0.009	1.00	23	24.5	0.106	9	10.64	77	0.04	0.9	0.84	1.8	2.6	12.0	0.9
105J_1989_1403	0	0.007	0.58	33	34.7	0.131	11	14.69	78	0.07	1.5	1.15	2.3	3.3	13.0	1.6
105J_1989_1405	0	0.006	0.53	46	38.9	0.110	11	12.63	78	0.06	2.0	1.36	2.7	2.6	12.0	1.5

Unique ID	Rep Stat	Sm INAA	Sn AAS	Sr ICP-MS	Ta INAA	Tb INAA	Te ICP-MS	Th ICP-MS	Th INAA	Ti ICP-MS	Tl ICP-MS	U ICP-MS	U INAA	U NADNC	V AAS	V ICP-MS
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.5	0.5	0.5	0.02	0.1	0.2	0.001	0.02	0.1	0.2	0.5	5	2
105J_1989_1368	0	4.8	4	83.5	0.9	0.8	0.08	2.5	7.9	0.007	0.15	1.8	4.4	4.0	58	55
105J_1989_1369	0	7.2	5	52.1	1.2	1.1	0.03	3.5	14.0	0.003	0.08	1.4	4.6	4.1	23	24
105J_1989_1370	0	6.8	6	58.3	1.1	1.0	<0.02	2.8	12.0	0.004	0.13	1.7	4.9	4.4	28	26
105J_1989_1371	0	6.4	2	51.6	1.0	1.0	0.03	3.5	11.0	0.004	0.08	1.3	4.3	3.8	26	24
105J_1989_1372	0	5.8	4	64.0	0.9	1.1	0.09	2.6	8.7	0.015	0.45	15.8	21.2	18.9	129	133
105J_1989_1373	0	7.8	5	161.0	1.0	1.1	0.26	0.6	8.3	0.007	0.48	5.3	9.2	8.1	101	94
105J_1989_1374	0	7.1	3	44.3	1.1	1.1	<0.02	3.3	13.0	0.004	0.12	2.0	5.7	5.1	41	36
105J_1989_1375	0	1.7	2	51.7	<0.5	<0.5	<0.02	0.9	3.4	0.004	0.11	7.5	8.0	8.5	25	20
105J_1989_1376	0	5.8	4	85.4	0.9	0.9	0.08	1.8	8.9	0.006	0.45	7.9	11.0	9.7	84	81
105J_1989_1377	0	5.3	4	77.4	0.9	0.9	0.06	2.7	9.2	0.012	0.65	2.8	5.6	4.8	47	39
105J_1989_1378	0	4.3	4	107.0	0.5	0.6	0.07	2.4	10.0	0.008	0.29	2.7	4.6	4.8	54	47
105J_1989_1379	0	5.4	4	52.9	1.2	1.0	<0.02	1.8	11.0	0.011	0.19	1.7	4.6	4.6	39	28
105J_1989_1382	1	4.9	4	47.1	1.2	0.8	0.04	2.6	9.3	0.003	0.19	1.4	4.3	4.5	36	34
105J_1989_1383	2	4.7	3	61.3	0.7	0.8	0.02	1.7	7.9	0.003	0.24	1.6	3.7	4.4	39	32
105J_1989_1384	0	5.5	4	61.4	1.2	1.0	0.05	3.8	10.0	0.007	0.20	1.7	6.2	4.8	50	48
105J_1989_1385	0	0.8	5	218.6	<0.5	<0.5	<0.02	0.1	1.1	0.008	0.02	0.4	0.5	0.7	20	10
105J_1989_1386	0	6.3	3	35.1	1.4	0.9	<0.02	3.7	12.0	0.013	0.10	0.8	4.3	3.7	28	29
105J_1989_1387	0	3.7	6	94.6	0.6	0.6	0.03	1.0	8.0	0.007	0.11	1.5	3.5	3.7	25	21
105J_1989_1388	0	4.4	5	81.9	0.9	0.7	0.05	1.9	9.2	0.006	0.14	1.4	3.8	4.1	31	24
105J_1989_1390	0	0.8	3	303.1	<0.5	<0.5	<0.02	0.2	1.5	0.007	0.03	0.5	0.8	1.0	19	7
105J_1989_1391	0	5.8	5	52.6	1.2	1.0	0.03	2.9	12.0	0.006	0.13	1.1	4.6	4.3	30	28
105J_1989_1392	0	2.9	5	43.7	<0.5	<0.5	0.02	0.2	5.0	0.025	0.03	1.1	2.8	2.9	18	16
105J_1989_1393	0	4.2	3	54.3	1.1	0.8	0.02	2.0	8.9	0.017	0.10	1.6	4.0	4.5	31	23
105J_1989_1394	0	3.8	3	59.1	1.1	0.6	<0.02	1.4	7.3	0.013	0.11	1.1	3.0	3.4	33	28
105J_1989_1395	0	4.8	4	54.7	1.2	0.8	0.02	2.5	10.0	0.014	0.09	1.0	3.8	3.6	30	24
105J_1989_1396	0	5.2	2	21.3	1.2	0.9	0.05	2.8	12.0	0.012	0.07	0.4	3.5	2.9	21	16
105J_1989_1397	0	5.4	5	70.8	1.0	1.1	0.03	2.1	12.0	0.006	0.10	0.8	3.5	3.1	22	21
105J_1989_1398	0	4.4	5	51.7	1.0	0.9	0.02	2.6	10.0	0.010	0.12	1.2	3.3	3.5	26	22
105J_1989_1399	0	5.3	3	30.3	1.1	1.1	0.05	2.3	12.0	0.003	0.12	1.0	4.6	4.3	32	24
105J_1989_1400	0	5.2	4	50.3	1.3	0.9	0.04	2.5	11.0	0.007	0.20	1.3	4.5	4.6	44	39
105J_1989_1402	0	5.3	3	39.2	1.4	1.0	0.06	2.0	9.4	0.017	0.13	1.5	4.9	4.3	32	41
105J_1989_1403	0	5.4	3	55.7	1.5	1.2	0.06	1.8	9.1	0.009	0.19	1.6	5.4	5.1	53	53
105J_1989_1405	0	5.2	8	51.7	1.0	1.1	0.10	1.6	9.2	0.009	0.20	2.2	6.1	5.8	68	49

Unique ID	Rep Stat	W ICP-MS ppm 0.1	W INAA ppm 1	wt INAA g 0.01	Yb INAA ppm 2	Zn AAS ppm 2	Zn ICP-MS ppm 0.1
105J_1989_1368	0	<0.1	<1	27.58	<2	196	195.0
105J_1989_1369	0	0.5	1	29.32	3	120	117.2
105J_1989_1370	0	<0.1	2	26.48	2	177	167.6
105J_1989_1371	0	<0.1	1	25.04	2	129	115.2
105J_1989_1372	0	<0.1	<1	28.93	3	818	653.7
105J_1989_1373	0	0.1	2	30.25	3	270	272.6
105J_1989_1374	0	<0.1	<1	38.40	3	191	187.9
105J_1989_1375	0	<0.1	<1	13.48	<2	139	139.2
105J_1989_1376	0	0.1	2	30.43	4	790	805.2
105J_1989_1377	0	1.9	3	32.80	3	395	365.4
105J_1989_1378	0	5.6	10	11.49	<2	200	168.4
105J_1989_1379	0	2.1	6	29.40	3	137	115.2
105J_1989_1382	1	0.2	2	13.69	<2	115	114.2
105J_1989_1383	2	0.2	2	12.41	<2	137	119.3
105J_1989_1384	0	0.1	1	40.57	2	117	126.0
105J_1989_1385	0	<0.1	<1	13.13	<2	51	49.1
105J_1989_1386	0	<0.1	2	41.15	3	97	99.1
105J_1989_1387	0	<0.1	<1	23.46	<2	101	92.0
105J_1989_1388	0	<0.1	<1	26.35	<2	132	126.9
105J_1989_1390	0	<0.1	<1	13.22	<2	114	100.4
105J_1989_1391	0	<0.1	3	32.92	3	118	116.4
105J_1989_1392	0	<0.1	<1	24.06	<2	29	29.8
105J_1989_1393	0	<0.1	<1	27.95	<2	97	93.2
105J_1989_1394	0	<0.1	<1	20.03	<2	130	120.9
105J_1989_1395	0	<0.1	2	17.55	<2	120	112.0
105J_1989_1396	0	<0.1	3	41.44	2	70	59.7
105J_1989_1397	0	<0.1	<1	31.39	<2	88	86.1
105J_1989_1398	0	<0.1	<1	24.76	<2	134	129.5
105J_1989_1399	0	<0.1	2	18.99	2	153	152.4
105J_1989_1400	0	0.1	2	18.57	2	169	165.7
105J_1989_1402	0	0.1	2	36.81	3	103	108.1
105J_1989_1403	0	0.1	1	31.67	3	137	149.0
105J_1989_1405	0	0.4	3	31.11	3	178	160.4

Unique ID	Rep Stat	Ag AAS	Ag ICP-MS	Al ICP-MS	As HY-AAS	As ICP-MS	As INAA	Au INAA	Au1 INAA	Au1_wt -	B ICP-MS	Ba ICP-MS	Ba INAA	Bi ICP-MS	Br INAA	Ca ICP-MS
		ppm	ppb	%	ppm	ppm	ppm	ppb	ppb	g	ppm	ppm	ppm	ppm	ppm	%
		0.2	2	0.01	1	0.1	0.5	2	2	0.01	1	0.5	50	0.02	0.5	0.01
105J_1989_1406	1	0.4	240	1.07	8	11.0	14.0	9			2	578.1	2100	0.23	2.7	0.35
105J_1989_1407	2	<0.2	225	0.79	11	15.2	18.0	8			1	550.8	2400	0.22	0.7	0.27
105J_1989_1408	0	0.4	303	0.93	11	13.6	19.0	10			1	586.2	2300	0.32	4.8	0.24
105J_1989_1409	0	<0.2	402	1.10	8	9.1	15.0	15	11	31.97	2	557.3	2500	0.26	3.1	0.34
105J_1989_1410	0	0.2	411	1.05	34	48.9	58.0	9			2	1007.7	2900	0.40	5.0	0.35
105J_1989_1411	0	0.7	445	0.92	9	12.2	16.0	6			2	623.4	2200	0.27	2.5	0.30
105J_1989_1412	0	0.2	310	1.07	8	10.9	15.0	6			2	674.4	2300	0.22	3.9	0.37
105J_1989_1413	0	0.4	362	0.91	8	11.5	16.0	11			1	546.0	2400	0.24	3.2	0.30
105J_1989_1414	0	0.4	320	0.88	7	10.2	14.0	8			<1	551.9	2400	0.22	2.0	0.27
105J_1989_1415	0	<0.2	310	0.91	8	9.4	14.0	7			1	610.5	2300	0.23	1.6	0.26
105J_1989_1416	0	0.4	464	0.89	12	17.5	23.0	8			2	1245.8	4300	0.26	5.1	0.37
105J_1989_1417	0	0.2	369	0.64	5	7.0	10.0	5			1	381.6	2000	0.16	0.9	0.27
105J_1989_1418	0	0.3	363	1.80	45	68.1	84.2	13			1	1673.8	5060	0.69	8.5	0.35
105J_1989_1419	0	3.0	4059	0.48	6	7.7	15.0	22	25	18.82	1	366.0	1700	0.18	15.0	0.04
105J_1989_1420	0	0.5	414	1.02	5	6.5	9.4	8			2	526.2	1900	0.15	6.6	0.42
105J_1989_1422	0	0.3	626	1.91	65	103.3	117.0	13			2	1743.7	6810	4.96	7.4	0.25
105J_1989_1423	0	1.1	834	2.63	5	8.4	11.0	13			3	536.0	2400	0.16	14.0	0.08
105J_1989_1424	0	1.1	1286	0.85	4	4.4	8.1	14	13	21.24	3	545.5	1700	0.15	8.7	0.42
105J_1989_1425	1	1.1	1249	2.33	400	958.9	1170.0	17	24	15.53	3	434.6	1300	11.76	70.8	0.74
105J_1989_1426	2	1.4	1224	2.32	620	919.0	949.0	68	13	5.92	3	463.2	1200	10.92	62.4	0.73
105J_1989_1427	0	0.4	441	1.49	60	75.3	98.2	16	7	28.00	2	464.0	2200	1.46	16.0	0.27
105J_1989_1428	0	0.7	656	1.37	11	17.0	21.0	7			3	827.0	2500	0.57	13.0	0.36
105J_1989_1430	0	0.3	353	0.89	21	46.1	49.0	23	200	27.20	2	1197.1	6210	0.36	10.0	0.41
105J_1989_1431	0	0.5	249	0.78	16	24.5	32.0	12			2	1311.4	6530	0.29	6.2	0.36
105J_1989_1432	0	<0.2	238	0.57	6	9.1	13.0	7			2	787.8	3300	0.20	1.8	0.16
105J_1989_1433	0	0.5	375	0.71	8	10.4	18.0	11			2	1060.6	5320	0.17	4.8	0.40
105J_1989_1434	0	0.7	718	1.22	5	4.9	8.3	15	12	24.31	3	303.3	1700	0.15	4.5	0.24
105J_1989_1435	0	<0.2	317	0.63	6	7.3	10.0	35	8	33.59	2	1202.4	4400	0.16	1.5	0.31
105J_1989_1436	0	<0.2	335	0.87	9	10.1	16.0	6			2	1047.1	4700	0.20	5.4	0.31
105J_1989_1437	0	0.8	1230	1.13	7	6.6	11.0	35	33	18.02	3	855.6	3000	0.19	5.7	0.25
105J_1989_1438	0	1.4	1124	0.61	7	7.1	11.0	15	13	29.30	3	579.1	2400	0.15	7.4	0.33
105J_1989_1439	0	0.7	405	0.85	6	6.9	10.0	9			3	636.7	2400	0.19	13.0	0.40
105J_1989_1440	0	0.4	322	0.56	8	9.7	14.0	6			2	882.1	3900	0.15	3.2	0.36

Unique ID	Rep Stat	Cd AAS	Cd ICP-MS	Ce INAA	Co AAS	Co ICP-MS	Co INAA	Cr ICP-MS	Cr INAA	Cs INAA	Cu AAS	Cu ICP-MS	Eu INAA	F ISE	Fe AAS	Fe ICP-MS	Fe INAA
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	pct	%	pct
		0.2	0.01	5	2	0.1	5	0.5	20	0.5	2	0.01	1	20	0.02	0.01	0.2
105J_1989_1406	1	1.3	1.17	55	12	12.4	20	18.8	51	4.4	52	54.28	2	655	2.50	2.34	3.3
105J_1989_1407	2	1.4	1.25	46	10	12.4	18	14.6	63	4.3	50	48.93	1	500	2.05	1.98	2.8
105J_1989_1408	0	1.5	1.31	43	10	10.1	17	14.4	59	4.6	56	51.97	<1	482	2.34	2.17	3.1
105J_1989_1409	0	1.1	1.06	45	10	9.3	15	18.0	65	5.2	54	53.82	2	565	2.25	2.05	3.1
105J_1989_1410	0	2.9	2.72	51	14	13.5	18	16.2	62	5.0	42	44.49	<1	481	2.65	2.48	3.1
105J_1989_1411	0	1.3	1.20	42	11	9.4	12	16.2	55	4.5	36	35.75	<1	463	2.12	1.77	2.3
105J_1989_1412	0	2.3	1.84	47	21	18.9	26	17.2	58	5.1	57	55.30	1	566	2.82	2.66	3.1
105J_1989_1413	0	1.5	1.49	40	12	12.5	20	15.3	54	5.0	50	50.95	<1	493	2.29	2.34	3.1
105J_1989_1414	0	1.2	1.27	53	12	13.0	20	16.6	58	5.0	46	50.17	1	535	2.18	2.13	2.9
105J_1989_1415	0	1.4	1.26	51	11	11.7	16	16.1	54	4.6	51	51.07	<1	547	2.37	2.23	3.0
105J_1989_1416	0	2.8	2.47	51	11	13.8	20	12.7	58	5.2	50	51.80	1	496	2.45	2.29	3.2
105J_1989_1417	0	1.2	1.20	45	5	4.6	7	9.8	59	4.6	29	29.59	<1	382	1.30	1.13	2.2
105J_1989_1418	0	3.7	3.16	62	24	25.5	40	14.8	68	7.7	93	92.91	1	454	3.57	3.85	5.3
105J_1989_1419	0	<0.2	0.31	33	3	1.8	<5	18.4	85	7.0	50	53.29	<1	390	5.96	6.65	8.2
105J_1989_1420	0	1.8	1.70	52	9	9.6	18	16.2	70	5.1	53	51.33	2	597	2.23	2.14	3.5
105J_1989_1422	0	3.6	3.07	44	28	32.6	50	15.6	57	6.6	143	145.43	1	588	3.36	3.34	4.2
105J_1989_1423	0	0.3	0.54	33	5	4.6	6	15.5	33	4.7	95	93.94	<1	420	5.71	6.23	6.8
105J_1989_1424	0	5.1	5.16	36	8	9.3	19	15.6	70	5.0	69	65.73	1	475	2.12	1.86	2.7
105J_1989_1425	1	8.5	8.92	61	31	36.9	64	15.1	20	12.0	274	261.41	2	310	3.08	2.78	4.0
105J_1989_1426	2	7.6	7.90	42	30	35.5	50	15.6	<20	10.0	253	248.66	3	283	3.06	2.86	3.9
105J_1989_1427	0	4.2	4.07	54	19	24.6	44	19.3	53	7.2	104	93.08	<1	425	2.78	2.73	4.2
105J_1989_1428	0	3.3	3.08	53	10	8.1	13	15.0	56	7.5	47	42.64	<1	407	2.26	2.06	3.1
105J_1989_1430	0	3.3	3.24	54	12	16.0	27	12.3	66	5.4	55	53.30	1	474	2.69	2.56	3.7
105J_1989_1431	0	2.3	2.10	50	10	11.5	21	11.8	71	5.3	45	43.71	<1	448	2.31	2.17	3.4
105J_1989_1432	0	0.4	0.61	45	6	7.5	15	9.6	63	5.4	43	42.21	1	485	2.00	1.89	3.3
105J_1989_1433	0	1.6	1.62	65	13	14.6	31	10.5	92	11.0	40	49.13	2	511	2.89	2.79	5.1
105J_1989_1434	0	1.7	1.91	36	8	7.7	15	13.8	61	6.5	83	86.38	1	526	2.18	1.79	3.2
105J_1989_1435	0	0.6	0.85	40	9	8.0	14	11.7	55	4.8	40	36.98	<1	513	1.88	1.76	2.5
105J_1989_1436	0	4.3	4.25	47	13	17.4	32	12.0	62	6.8	68	57.53	2	518	2.58	2.62	3.8
105J_1989_1437	0	1.3	1.33	36	7	7.0	16	16.8	81	8.9	55	56.92	1	415	1.66	1.38	2.7
105J_1989_1438	0	6.0	6.04	41	12	12.7	22	17.6	92	6.2	97	92.69	<1	500	2.22	2.27	3.6
105J_1989_1439	0	1.5	1.49	51	10	10.9	18	14.0	70	5.7	66	62.06	2	489	2.32	2.36	3.5
105J_1989_1440	0	1.5	1.71	52	11	10.3	18	10.0	71	6.5	45	42.99	<1	533	2.32	2.26	3.4

Unique ID	Rep Stat	Ga ICP-MS ppm 0.2	Hf INAA ppm 1	Hg CV-AAS ppb 10	Hg ICP-MS ppb 5	K ICP-MS % 0.01	La ICP-MS ppm 0.5	La INAA ppm 2	LOI GRAV pct 1.0	Lu INAA ppm 0.2	Mg ICP-MS % 0.01	Mn AAS ppm 5	Mn ICP-MS ppm 1	Mo AAS ppm 2	Mo ICP-MS ppm 0.01	Mo INAA ppm 1
105J_1989_1406	1	3.4	5	112	118	0.14	14.0	39	5.4	<0.2	0.51	1098	1108	2	2.86	4
105J_1989_1407	2	2.7	4	115	107	0.12	11.5	34	3.8	<0.2	0.34	936	882	2	2.73	4
105J_1989_1408	0	2.7	6	166	149	0.12	10.4	35	5.0	<0.2	0.31	935	931	2	2.72	4
105J_1989_1409	0	3.2	5	202	191	0.12	11.9	37	7.2	<0.2	0.44	327	321	<2	1.99	3
105J_1989_1410	0	2.9	6	216	186	0.13	12.8	36	7.2	<0.2	0.33	1269	1371	2	3.15	5
105J_1989_1411	0	2.9	4	216	160	0.13	11.8	32	9.8	<0.2	0.30	1008	817	2	2.46	3
105J_1989_1412	0	3.1	4	209	212	0.13	12.1	33	6.8	<0.2	0.45	3996	3512	2	3.53	5
105J_1989_1413	0	2.9	5	169	149	0.12	12.5	33	6.0	<0.2	0.35	1242	1352	2	2.83	4
105J_1989_1414	0	2.8	5	184	167	0.11	11.4	35	5.0	<0.2	0.35	387	412	<2	2.57	5
105J_1989_1415	0	2.9	6	187	156	0.12	12.1	35	5.0	<0.2	0.37	300	340	2	2.50	5
105J_1989_1416	0	2.1	5	205	196	0.11	10.0	36	6.6	<0.2	0.26	768	807	4	4.61	7
105J_1989_1417	0	1.9	4	148	150	0.07	9.9	35	5.6	<0.2	0.18	158	150	5	5.01	7
105J_1989_1418	0	2.3	7	176	171	0.11	14.3	45	8.8	<0.2	0.29	751	903	6	6.50	8
105J_1989_1419	0	2.5	3	526	582	0.10	5.9	28	17.9	<0.2	0.08	44	52	5	5.58	7
105J_1989_1420	0	3.0	4	223	179	0.12	13.0	39	9.0	<0.2	0.37	598	621	2	3.12	4
105J_1989_1422	0	2.0	4	256	250	0.10	11.5	35	9.5	<0.2	0.21	857	1051	7	6.61	9
105J_1989_1423	0	2.0	3	374	373	0.08	6.2	24	19.4	<0.2	0.15	250	327	6	6.30	7
105J_1989_1424	0	2.2	2	446	404	0.10	7.5	28	17.4	<0.2	0.20	1080	922	4	3.19	6
105J_1989_1425	1	4.4	2	216	169	0.12	25.2	44	24.5	<0.2	0.40	1674	1729	5	3.77	8
105J_1989_1426	2	4.5	2	184	166	0.13	25.4	39	21.7	<0.2	0.42	1530	1585	5	4.04	5
105J_1989_1427	0	3.3	4	104	88	0.15	13.1	37	8.8	<0.2	0.39	797	819	4	3.04	6
105J_1989_1428	0	3.1	4	198	177	0.14	9.9	33	13.0	<0.2	0.30	762	691	<2	2.20	5
105J_1989_1430	0	2.2	6	180	180	0.09	9.1	37	9.1	<0.2	0.27	1872	2105	4	3.46	6
105J_1989_1431	0	2.2	5	140	139	0.09	8.0	37	7.1	<0.2	0.26	1260	1284	2	2.79	5
105J_1989_1432	0	1.7	4	176	153	0.07	5.8	34	4.8	<0.2	0.15	357	361	2	2.79	5
105J_1989_1433	0	1.7	7	252	234	0.08	5.6	50	7.8	<0.2	0.20	653	728	6	5.57	9
105J_1989_1434	0	2.1	3	356	390	0.07	6.2	29	10.5	<0.2	0.13	118	92	2	3.70	5
105J_1989_1435	0	1.9	5	148	140	0.07	8.0	31	4.4	<0.2	0.22	386	391	2	2.77	4
105J_1989_1436	0	1.8	5	205	186	0.09	6.6	36	5.8	<0.2	0.25	1044	1121	5	4.09	7
105J_1989_1437	0	2.7	4	630	611	0.08	7.1	31	15.9	<0.2	0.14	203	167	7	6.67	10
105J_1989_1438	0	2.2	4	482	443	0.11	5.7	34	7.6	<0.2	0.15	1224	1196	5	4.63	8
105J_1989_1439	0	2.5	4	266	247	0.12	8.9	35	8.7	<0.2	0.29	1170	1172	2	2.82	5
105J_1989_1440	0	1.6	4	202	174	0.08	6.6	35	5.7	<0.2	0.22	1044	1000	4	3.92	6

Unique ID	Rep Stat	Na ICP-MS % 0.001	Na INAA pct 0.02	Ni AAS ppm 2	Ni ICP-MS ppm 0.1	P ICP-MS % 0.001	Pb AAS ppm 2	Pb ICP-MS ppm 0.01	Rb INAA ppm 5	S ICP-MS % 0.01	Sb HY-AAS ppm 0.2	Sb ICP-MS ppm 0.02	Sb INAA ppm 0.1	Sc ICP-MS ppm 0.1	Sc INAA ppm 0.2	Se ICP-MS ppm 0.1
105J_1989_1406	1	0.007	0.52	36	37.0	0.120	11	13.04	73	0.08	1.4	1.29	2.3	2.8	11.0	1.1
105J_1989_1407	2	0.006	0.55	37	35.8	0.104	10	13.82	75	0.04	2.1	1.78	3.3	2.5	10.0	1.3
105J_1989_1408	0	0.005	0.50	45	42.8	0.087	11	11.64	76	0.05	1.9	1.41	2.8	2.1	11.0	1.5
105J_1989_1409	0	0.005	0.54	35	33.3	0.092	11	11.93	83	0.06	3.0	1.09	2.5	2.6	12.0	2.0
105J_1989_1410	0	0.008	0.46	37	36.9	0.104	9	13.87	79	0.09	3.0	1.87	3.5	2.6	11.0	1.9
105J_1989_1411	0	0.011	0.55	29	28.0	0.089	8	10.81	70	0.06	1.7	1.36	2.6	2.1	9.0	1.7
105J_1989_1412	0	0.006	0.36	68	64.2	0.104	9	12.05	74	0.06	1.4	0.96	2.2	2.8	10.0	1.5
105J_1989_1413	0	0.006	0.48	46	42.5	0.111	7	12.14	76	0.06	2.0	1.33	2.8	2.4	10.0	2.0
105J_1989_1414	0	0.007	0.46	41	40.9	0.112	10	11.91	75	0.09	1.6	1.30	2.6	2.6	10.0	1.5
105J_1989_1415	0	0.007	0.41	39	37.2	0.103	11	11.89	68	0.07	1.6	1.28	2.5	2.6	10.0	1.4
105J_1989_1416	0	0.007	0.47	71	72.5	0.102	7	10.07	73	0.10	2.1	1.76	3.3	2.5	11.0	3.1
105J_1989_1417	0	0.006	0.70	26	24.9	0.059	5	8.39	70	0.05	1.4	1.25	2.8	1.8	11.0	1.9
105J_1989_1418	0	0.009	0.62	107	106.3	0.108	12	16.26	78	0.12	5.0	2.99	5.1	3.7	15.0	2.4
105J_1989_1419	0	0.006	0.59	13	13.1	0.100	10	11.09	62	0.28	3.4	4.50	6.1	2.4	11.0	14.5
105J_1989_1420	0	0.008	0.73	44	44.4	0.114	7	9.73	74	0.07	1.2	1.22	2.2	2.4	13.0	1.9
105J_1989_1422	0	0.006	0.43	112	113.5	0.112	9	11.07	64	0.15	3.6	2.55	4.4	4.3	13.0	3.4
105J_1989_1423	0	0.005	0.51	25	26.8	0.122	7	9.53	51	0.34	1.9	2.40	3.1	3.4	8.9	6.4
105J_1989_1424	0	0.006	0.70	99	87.6	0.138	7	9.17	69	0.14	1.1	1.59	2.5	1.3	11.0	5.4
105J_1989_1425	1	0.025	0.86	175	154.6	0.115	15	22.43	53	0.14	8.0	4.23	5.6	2.6	11.0	4.7
105J_1989_1426	2	0.027	0.85	160	146.5	0.115	20	21.81	53	0.13	7.0	4.02	4.9	2.8	11.0	4.5
105J_1989_1427	0	0.012	0.76	84	76.5	0.087	16	20.75	69	0.07	3.9	3.16	5.0	2.3	12.0	2.2
105J_1989_1428	0	0.013	1.00	57	50.8	0.091	12	14.34	76	0.06	1.5	1.40	2.4	2.4	13.0	2.5
105J_1989_1430	0	0.008	0.58	101	91.8	0.101	6	10.50	75	0.08	1.8	1.73	2.8	2.4	12.0	4.0
105J_1989_1431	0	0.008	0.60	68	62.7	0.090	8	10.36	79	0.07	1.6	1.61	2.6	2.2	12.0	2.4
105J_1989_1432	0	0.007	0.68	30	29.4	0.071	8	9.59	74	0.05	1.3	1.39	2.5	2.1	13.0	1.2
105J_1989_1433	0	0.007	1.10	75	67.8	0.125	10	10.68	110	0.07	1.2	1.08	2.5	3.2	19.0	2.1
105J_1989_1434	0	0.007	0.87	75	75.1	0.139	9	10.97	64	0.09	1.0	1.36	2.2	3.0	13.0	8.0
105J_1989_1435	0	0.006	0.61	29	28.6	0.088	9	8.63	66	0.04	1.4	1.28	2.2	2.3	10.0	1.5
105J_1989_1436	0	0.005	0.62	90	83.1	0.093	10	11.45	87	0.07	2.1	1.69	3.5	3.0	12.0	2.5
105J_1989_1437	0	0.009	1.00	37	33.6	0.150	10	12.25	76	0.14	2.2	2.15	3.7	1.2	15.0	6.0
105J_1989_1438	0	0.005	0.69	108	101.8	0.097	7	10.69	67	0.10	2.4	2.26	3.9	2.7	13.0	5.1
105J_1989_1439	0	0.007	0.69	50	46.3	0.095	10	10.82	78	0.07	1.6	1.35	2.4	2.9	13.0	2.2
105J_1989_1440	0	0.005	0.58	48	45.5	0.107	9	9.18	77	0.08	2.0	1.64	2.9	2.5	12.0	2.0

Unique ID	Rep Stat	Sm INAA	Sn AAS	Sr ICP-MS	Ta INAA	Tb INAA	Te ICP-MS	Th ICP-MS	Th INAA	Ti ICP-MS	Tl ICP-MS	U ICP-MS	U INAA	U NADNC	V AAS	V ICP-MS
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.5	0.5	0.5	0.02	0.1	0.2	0.001	0.02	0.1	0.2	0.5	5	2
105J_1989_1406	1	4.8	4	47.6	1.0	0.9	0.09	2.1	8.6	0.010	0.17	1.7	5.4	5.6	49	49
105J_1989_1407	2	4.3	3	38.7	0.9	0.8	0.06	2.5	8.0	0.010	0.18	1.7	4.9	4.4	42	46
105J_1989_1408	0	4.6	9	40.8	0.9	1.0	0.07	1.2	8.3	0.009	0.18	1.5	4.8	4.3	46	46
105J_1989_1409	0	4.9	2	46.0	1.0	0.9	0.08	1.4	8.5	0.008	0.20	1.8	5.4	5.0	51	49
105J_1989_1410	0	4.8	10	49.7	0.9	0.9	0.06	2.0	8.7	0.008	0.22	1.7	4.7	4.6	46	46
105J_1989_1411	0	4.1	2	37.8	1.0	0.6	0.03	1.6	7.2	0.009	0.22	1.7	4.4	4.5	41	45
105J_1989_1412	0	4.8	4	52.2	1.0	0.9	0.08	2.1	7.8	0.008	0.21	1.6	5.0	4.5	39	47
105J_1989_1413	0	4.8	4	44.5	0.9	0.8	0.07	2.1	8.0	0.009	0.18	1.7	5.2	4.6	39	43
105J_1989_1414	0	4.6	3	39.0	1.1	0.9	0.02	2.4	7.9	0.009	0.19	1.7	5.0	4.5	59	43
105J_1989_1415	0	4.5	4	39.2	1.0	0.8	0.07	2.6	8.0	0.009	0.19	1.8	5.0	5.1	41	45
105J_1989_1416	0	4.4	4	48.7	1.0	0.9	0.09	2.4	7.7	0.008	0.32	2.3	5.7	5.3	44	43
105J_1989_1417	0	4.0	3	31.6	0.9	0.8	0.03	1.9	7.3	0.008	0.34	2.5	6.5	5.6	44	38
105J_1989_1418	0	5.9	3	52.4	1.0	1.2	0.09	3.9	10.0	0.013	0.46	3.1	6.5	6.6	44	44
105J_1989_1419	0	3.9	1	26.9	0.7	0.8	0.14	1.0	6.2	0.007	0.41	1.3	4.4	4.2	56	58
105J_1989_1420	0	5.1	2	43.6	1.1	1.0	0.07	1.2	7.7	0.011	0.16	1.9	5.5	5.2	36	50
105J_1989_1422	0	5.6	3	50.0	0.9	1.1	0.14	3.2	6.9	0.007	0.35	3.2	6.4	6.4	51	51
105J_1989_1423	0	3.9	5	25.0	0.8	1.0	0.09	2.3	5.3	0.006	0.52	3.3	5.5	5.9	54	50
105J_1989_1424	0	5.1	4	58.3	0.7	1.0	0.07	0.2	5.8	0.006	0.29	1.5	5.0	4.4	54	44
105J_1989_1425	1	4.6	5	51.9	<0.5	1.2	0.18	2.3	10.0	0.036	0.38	21.7	27.8	28.8	50	43
105J_1989_1426	2	4.1	4	52.7	0.8	0.9	0.15	2.9	9.3	0.039	0.37	20.9	23.4	24.0	52	45
105J_1989_1427	0	5.3	3	51.8	0.9	1.0	0.07	2.0	8.1	0.029	0.32	1.6	4.2	4.0	51	46
105J_1989_1428	0	4.9	2	45.4	1.0	0.8	0.05	1.3	8.0	0.013	0.25	1.6	4.1	4.4	37	38
105J_1989_1430	0	4.7	3	52.2	0.9	1.0	0.05	2.0	7.8	0.008	0.33	2.3	5.7	5.2	44	38
105J_1989_1431	0	4.7	2	48.4	1.0	1.0	0.08	2.7	8.1	0.008	0.24	1.8	5.0	4.6	41	35
105J_1989_1432	0	4.3	1	30.6	0.8	0.8	0.08	1.3	7.3	0.005	0.16	1.0	4.5	3.7	31	27
105J_1989_1433	0	7.1	3	48.2	1.4	1.5	0.04	1.8	11.0	0.003	0.29	1.8	7.4	5.4	36	26
105J_1989_1434	0	4.7	2	38.1	0.8	1.0	0.12	0.8	6.0	0.004	0.51	1.8	4.7	4.7	64	46
105J_1989_1435	0	4.4	3	37.8	0.9	1.0	0.06	1.9	7.2	0.008	0.18	1.3	4.7	4.3	57	33
105J_1989_1436	0	5.6	5	41.9	1.0	1.2	0.05	2.3	8.3	0.005	0.32	1.7	5.8	4.6	59	35
105J_1989_1437	0	5.3	2	65.1	0.7	1.0	0.06	0.1	6.8	0.005	0.75	2.4	6.4	5.8	73	64
105J_1989_1438	0	5.0	3	62.0	0.9	1.1	0.11	0.8	6.3	0.006	0.27	2.0	6.6	5.9	67	69
105J_1989_1439	0	4.9	4	47.6	0.8	0.9	0.08	1.3	7.6	0.008	0.16	1.8	5.4	5.2	59	38
105J_1989_1440	0	4.6	3	41.7	0.9	0.9	0.03	2.0	7.4	0.004	0.20	1.3	4.9	4.4	52	30

Unique ID	Rep Stat	W ICP-MS ppm 0.1	W INAA ppm 1	wt INAA g 0.01	Yb INAA ppm 2	Zn AAS ppm 2	Zn ICP-MS ppm 0.1
105J_1989_1406	1	0.3	3	34.60	2	137	139.5
105J_1989_1407	2	0.3	2	23.42	2	139	143.7
105J_1989_1408	0	2.8	5	33.00	3	167	164.6
105J_1989_1409	0	0.4	3	38.11	3	152	154.0
105J_1989_1410	0	4.2	6	30.79	3	200	206.0
105J_1989_1411	0	0.4	1	23.97	3	133	134.6
105J_1989_1412	0	0.3	2	31.05	2	236	226.8
105J_1989_1413	0	0.2	2	36.31	3	195	200.3
105J_1989_1414	0	2.1	3	43.43	2	149	162.4
105J_1989_1415	0	0.9	3	16.38	2	145	148.1
105J_1989_1416	0	0.1	2	36.63	3	312	339.2
105J_1989_1417	0	<0.1	1	42.50	3	93	100.0
105J_1989_1418	0	0.4	3	35.15	4	398	413.0
105J_1989_1419	0	<0.1	<1	28.60	<2	55	54.6
105J_1989_1420	0	0.1	<1	34.85	3	193	211.3
105J_1989_1422	0	0.4	<1	18.97	4	489	510.0
105J_1989_1423	0	<0.1	<1	27.75	<2	125	115.3
105J_1989_1424	0	<0.1	<1	27.28	3	258	245.8
105J_1989_1425	1	2.0	6	21.65	5	846	700.5
105J_1989_1426	2	1.4	5	13.17	4	782	659.1
105J_1989_1427	0	0.3	2	35.93	3	312	322.5
105J_1989_1428	0	0.7	2	27.44	3	244	237.9
105J_1989_1430	0	5.4	3	35.95	3	309	330.0
105J_1989_1431	0	0.1	3	41.39	3	235	232.1
105J_1989_1432	0	<0.1	<1	37.57	3	116	116.6
105J_1989_1433	0	<0.1	2	34.78	5	248	222.6
105J_1989_1434	0	<0.1	<1	31.00	<2	289	307.9
105J_1989_1435	0	0.1	<1	45.66	3	134	132.1
105J_1989_1436	0	<0.1	<1	45.77	3	339	351.3
105J_1989_1437	0	<0.1	<1	28.86	3	126	118.6
105J_1989_1438	0	<0.1	<1	38.23	3	380	388.3
105J_1989_1439	0	<0.1	2	32.04	3	196	182.7
105J_1989_1440	0	<0.1	1	40.93	3	203	188.9

Unique ID	Rep Stat	Ag AAS	Ag ICP-MS	Al ICP-MS	As HY-AAS	As ICP-MS	As INAA	Au INAA	Au1 INAA	Au1_wt -	B ICP-MS	Ba ICP-MS	Ba INAA	Bi ICP-MS	Br INAA	Ca ICP-MS
		ppm	ppb	%	ppm	ppm	ppm	ppb	ppb	g	ppm	ppm	ppm	ppm	ppm	%
		0.2	2	0.01	1	0.1	0.5	2	2	0.01	1	0.5	50	0.02	0.5	0.01
105J_1989_1442	1	0.6	335	0.56	10	11.5	14.0	7			2	1104.2	4000	0.17	2.4	0.34
105J_1989_1443	2	0.3	352	0.58	10	11.6	15.0	7			2	1102.3	4000	0.17	3.5	0.35
105J_1989_1444	0	<0.2	303	0.56	8	10.6	15.0	21	8	27.30	3	976.9	4400	0.18	1.7	0.31
105J_1989_1445	0	<0.2	200	0.55	13	15.1	20.0	8			2	1372.9	8200	0.21	1.4	0.25
105J_1989_1446	0	0.8	816	1.03	10	10.3	16.0	4			5	507.6	1000	0.29	26.0	1.48
105J_1989_1447	0	0.3	380	0.66	7	8.9	13.0	9			2	1348.0	4500	0.18	5.2	0.38
105J_1989_1448	0	0.5	499	0.59	7	9.0	10.0	15	8	3.65	3	1357.3	5860	0.20	4.3	0.48
105J_1989_1449	0	0.8	666	0.93	5	6.6	9.1	10			2	1038.7	2900	0.18	11.0	0.62
105J_1989_1450	0	<0.2	238	0.75	8	10.0	14.0	5			2	1624.0	7480	0.20	2.4	0.28
105J_1989_1451	0	<0.2	238	0.74	5	6.6	9.4	5			3	428.0	1800	0.20	6.5	0.45
105J_1989_1452	0	0.2	164	0.72	6	6.9	10.0	<2			4	365.6	1500	0.16	1.7	0.43
105J_1989_1453	0	<0.2	239	0.61	12	13.8	18.0	6			3	1008.1	3400	0.17	1.5	0.33
105J_1989_1454	0	<0.2	421	0.84	200	295.3	382.0	<2			3	268.8	1400	1.20	4.5	0.46
105J_1989_1455	0	<0.2	26	0.20	3	1.6	3.2	<2			1	76.0	740	0.02	5.8	0.43
105J_1989_1456	0	0.9	904	1.02	10	12.9	17.0	10			4	564.8	2100	0.20	3.7	0.41
105J_1989_1457	0	<0.2	392	1.06	4	6.0	8.1	17	30	28.18	5	302.6	2000	0.16	7.2	0.67
105J_1989_1458	0	0.2	445	0.88	11	13.5	20.0	8			4	731.5	3500	0.15	3.8	0.48
105J_1989_1459	0	0.2	433	0.92	5	6.7	9.4	10			4	292.3	1700	0.18	8.0	0.82
105J_1989_1462	1	0.4	717	1.23	11	14.2	19.0	20	18	14.14	4	379.8	1800	0.28	5.5	0.65
105J_1989_1463	2	0.9	705	1.12	8	10.4	13.0	16	18	26.07	3	319.6	1600	0.25	23.0	0.79
105J_1989_1464	0	0.6	456	1.08	6	8.5	11.0	11			5	524.2	1800	0.20	14.0	0.59
105J_1989_1465	0	0.5	604	0.99	7	10.1	14.0	8			2	504.1	2000	0.16	3.6	0.37
105J_1989_1466	0	<0.2	362	0.97	11	13.5	17.0	9			2	566.2	2300	0.18	3.8	0.62
105J_1989_1467	0	<0.2	310	1.04	11	13.1	17.0	10			3	564.5	2500	0.18	2.3	0.61
105J_1989_1468	0	0.5	699	1.19	7	9.0	11.0	10			3	432.3	1700	0.18	10.0	0.72
105J_1989_1469	0	0.4	374	1.20	8	9.9	12.0	8			3	437.9	1700	0.16	11.0	0.52
105J_1989_1471	0	0.5	637	1.07	10	13.7	17.0	10			4	309.2	1200	0.20	12.0	0.43
105J_1989_1472	0	0.4	601	0.84	8	10.8	15.0	8			3	741.4	2800	0.16	5.8	0.47
105J_1989_1473	0	0.2	188	0.81	2	3.0	4.5	<2			2	238.6	1500	0.12	3.3	0.62
105J_1989_1474	0	0.2	332	0.95	6	8.6	10.0	4			3	272.0	1300	0.36	4.2	0.88
105J_1989_1475	0	0.5	611	1.00	17	22.7	32.0	5			2	725.7	4300	0.27	2.9	0.41
105J_1989_1476	0	0.7	1134	0.98	5	6.9	9.1	6			5	700.5	1200	0.19	14.0	1.81
105J_1989_1477	0	0.3	831	2.12	155	255.9	266.0	16	21	11.76	1	185.4	1200	35.42	11.0	0.17

Unique ID	Rep Stat	Cd AAS	Cd ICP-MS	Ce INAA	Co AAS	Co ICP-MS	Co INAA	Cr ICP-MS	Cr INAA	Cs INAA	Cu AAS	Cu ICP-MS	Eu INAA	F ISE	Fe AAS	Fe ICP-MS	Fe INAA
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	pct	%	pct
		0.2	0.01	5	2	0.1	5	0.5	20	0.5	2	0.01	1	20	0.02	0.01	0.2
105J_1989_1442	1	1.5	1.54	42	10	10.1	15	10.5	59	5.5	52	47.89	<1	428	2.27	2.11	2.7
105J_1989_1443	2	1.4	1.56	46	10	10.2	17	10.8	68	5.7	50	48.07	1	548	2.42	2.19	3.0
105J_1989_1444	0	1.1	1.42	45	8	9.6	16	10.8	67	5.1	50	48.05	1	467	2.29	2.08	3.1
105J_1989_1445	0	0.6	0.96	42	10	11.6	19	10.2	59	5.4	44	44.79	1	542	2.47	2.52	3.3
105J_1989_1446	0	1.8	1.81	23	3	1.5	<5	8.0	<20	3.1	34	30.95	<1	271	0.85	0.70	1.2
105J_1989_1447	0	1.8	1.98	45	8	10.3	18	11.8	61	6.2	45	43.99	<1	529	2.29	2.24	3.0
105J_1989_1448	0	3.3	4.08	47	9	9.5	14	10.8	52	4.6	51	48.86	<1	469	2.10	2.18	2.5
105J_1989_1449	0	5.3	5.09	43	8	9.0	15	12.1	67	6.1	41	38.31	1	444	2.51	2.20	3.1
105J_1989_1450	0	1.1	1.38	62	11	13.3	23	13.6	76	5.4	46	44.07	1	505	2.67	2.87	4.2
105J_1989_1451	0	1.0	1.23	52	9	9.1	13	11.7	54	4.8	38	37.69	1	463	2.12	2.06	3.0
105J_1989_1452	0	0.9	1.06	39	8	8.5	14	12.1	50	3.3	28	25.77	<1	384	2.06	1.76	2.4
105J_1989_1453	0	1.3	1.55	45	9	8.8	13	11.5	47	3.9	36	37.78	<1	515	1.90	1.85	2.6
105J_1989_1454	0	0.9	1.02	57	7	7.2	13	12.0	52	9.0	28	25.23	<1	357	1.56	1.27	2.1
105J_1989_1455	0	<0.2	0.23	27	2	1.4	6	1.6	<20	1.0	4	4.76	<1	297	0.27	0.34	2.1
105J_1989_1456	0	3.5	3.32	44	15	17.0	24	17.6	64	5.0	58	54.76	1	481	2.42	2.44	3.2
105J_1989_1457	0	1.3	1.79	49	8	9.6	13	19.3	64	4.4	44	50.73	<1	595	1.79	1.96	2.8
105J_1989_1458	0	2.5	2.59	41	8	9.4	13	17.6	68	5.2	25	49.12	<1	781	2.00	2.20	2.9
105J_1989_1459	0	2.2	2.42	54	8	9.1	14	17.1	71	4.1	58	57.12	1	573	2.16	2.09	2.9
105J_1989_1462	1	1.5	2.01	58	15	21.2	30	18.6	70	5.5	131	133.18	1	765	3.53	3.78	5.4
105J_1989_1463	2	2.8	3.11	53	17	17.9	23	16.8	73	5.6	111	113.13	1	776	3.43	3.39	4.6
105J_1989_1464	0	2.3	2.35	41	10	11.1	17	18.1	54	4.7	73	73.02	1	473	2.53	2.17	2.8
105J_1989_1465	0	2.0	2.07	53	9	10.3	16	15.9	66	4.6	56	55.64	<1	484	2.93	2.89	4.2
105J_1989_1466	0	1.7	1.78	63	13	14.2	22	17.1	78	5.3	61	61.45	1	607	2.71	2.74	3.9
105J_1989_1467	0	1.3	1.60	63	12	14.6	24	17.6	75	5.8	61	62.02	2	612	2.70	2.82	4.2
105J_1989_1468	0	1.8	2.14	46	9	9.0	13	19.7	58	5.3	51	53.15	<1	525	2.20	2.10	2.9
105J_1989_1469	0	5.4	5.24	44	9	9.2	12	16.9	54	5.1	40	38.48	<1	542	2.59	2.33	2.7
105J_1989_1471	0	0.4	0.79	37	11	10.9	13	14.4	40	7.1	47	47.38	1	363	2.74	2.48	3.3
105J_1989_1472	0	2.0	2.26	46	9	9.8	15	14.6	71	5.4	47	50.03	<1	495	2.12	2.09	3.1
105J_1989_1473	0	0.5	0.82	48	7	8.4	15	13.7	56	4.0	26	27.60	<1	312	1.45	1.30	2.3
105J_1989_1474	0	0.7	1.08	61	8	10.0	15	16.2	53	6.2	41	43.54	<1	327	2.24	1.97	2.8
105J_1989_1475	0	5.1	4.97	65	12	15.3	26	15.7	91	6.3	54	55.38	1	440	2.14	2.13	3.1
105J_1989_1476	0	3.3	3.23	28	9	8.5	11	12.4	21	2.9	40	39.94	<1	173	2.63	2.49	3.1
105J_1989_1477	0	0.3	1.58	57	27	52.2	49	24.2	62	9.3	182	231.20	1	352	4.18	4.27	5.2

Unique ID	Rep Stat	Ga ICP-MS ppm 0.2	Hf INAA ppm 1	Hg CV-AAS ppb 10	Hg ICP-MS ppb 5	K ICP-MS % 0.01	La ICP-MS ppm 0.5	La INAA ppm 2	LOI GRAV pct 1.0	Lu INAA ppm 0.2	Mg ICP-MS % 0.01	Mn AAS ppm 5	Mn ICP-MS ppm 1	Mo AAS ppm 2	Mo ICP-MS ppm 0.01	Mo INAA ppm 1
105J_1989_1442	1	1.6	3	202	179	0.08	6.3	30	5.2	<0.2	0.20	643	655	4	3.75	5
105J_1989_1443	2	1.7	4	209	200	0.09	6.3	32	5.3	<0.2	0.21	637	700	4	3.79	6
105J_1989_1444	0	1.7	5	227	178	0.08	7.4	34	4.0	<0.2	0.22	442	494	4	2.94	5
105J_1989_1445	0	1.6	7	216	189	0.06	7.6	36	4.7	<0.2	0.18	796	816	5	4.27	5
105J_1989_1446	0	1.6	1	216	221	0.06	10.6	17	44.4	<0.2	0.17	1098	843	<2	1.29	3
105J_1989_1447	0	1.8	5	270	235	0.10	6.3	34	6.6	<0.2	0.21	514	597	4	3.64	6
105J_1989_1448	0	1.5	4	288	292	0.09	5.5	30	9.1	<0.2	0.15	456	527	5	5.12	7
105J_1989_1449	0	2.1	3	461	463	0.11	5.7	30	13.0	<0.2	0.18	1890	1864	2	3.01	5
105J_1989_1450	0	2.0	7	194	170	0.08	6.2	44	5.4	<0.2	0.26	627	678	2	2.78	5
105J_1989_1451	0	2.0	5	144	136	0.10	5.3	36	7.4	<0.2	0.26	588	617	<2	1.39	3
105J_1989_1452	0	2.1	4	114	103	0.14	7.1	28	6.8	<0.2	0.23	586	569	<2	1.21	3
105J_1989_1453	0	1.8	4	121	111	0.10	8.7	34	3.2	<0.2	0.24	469	503	<2	2.26	4
105J_1989_1454	0	2.1	4	163	137	0.08	13.4	37	9.6	<0.2	0.22	137	121	<2	1.19	4
105J_1989_1455	0	0.8	3	31	22	0.02	1.0	17	11.2	<0.2	0.06	75	71	<2	0.26	3
105J_1989_1456	0	2.7	3	331	353	0.12	10.8	31	11.1	<0.2	0.26	1980	2034	6	4.78	7
105J_1989_1457	0	3.2	5	170	189	0.11	16.6	38	8.2	<0.2	0.51	548	620	<2	2.01	3
105J_1989_1458	0	2.7	3	214	244	0.11	15.3	37	5.8	<0.2	0.50	912	927	4	4.02	6
105J_1989_1459	0	2.9	4	190	198	0.10	13.6	37	16.4	<0.2	0.51	589	555	2	2.65	4
105J_1989_1462	1	3.5	3	401	456	0.17	20.4	48	10.4	<0.2	0.72	1548	2116	8	8.62	11
105J_1989_1463	2	3.1	3	452	510	0.15	18.3	45	15.3	<0.2	0.66	1584	1736	7	6.38	8
105J_1989_1464	0	3.2	3	206	195	0.15	11.8	32	13.7	<0.2	0.54	1098	1004	2	3.37	4
105J_1989_1465	0	2.8	4	214	225	0.10	11.9	37	10.2	<0.2	0.39	425	438	<2	2.02	3
105J_1989_1466	0	2.8	5	187	199	0.10	18.9	47	5.2	<0.2	0.63	779	848	2	3.80	5
105J_1989_1467	0	2.9	5	163	162	0.11	19.5	47	4.8	<0.2	0.67	806	837	4	4.00	5
105J_1989_1468	0	3.1	3	228	263	0.11	16.6	35	11.9	<0.2	0.49	475	481	2	3.07	4
105J_1989_1469	0	3.1	3	180	169	0.12	14.2	29	8.3	<0.2	0.46	2376	2603	2	2.71	5
105J_1989_1471	0	3.1	2	213	227	0.10	8.6	29	15.9	<0.2	0.37	1008	843	4	3.78	6
105J_1989_1472	0	2.3	4	221	251	0.10	9.4	35	8.3	<0.2	0.33	509	560	4	3.30	5
105J_1989_1473	0	2.2	5	75	66	0.07	10.4	34	12.1	<0.2	0.27	91	82	<2	0.29	2
105J_1989_1474	0	2.7	4	119	125	0.10	12.0	40	15.1	<0.2	0.33	437	408	<2	0.60	3
105J_1989_1475	0	2.1	4	177	190	0.08	12.9	48	5.8	<0.2	0.27	127	158	6	6.00	8
105J_1989_1476	0	2.3	<1	262	311	0.08	6.3	19	50.4	<0.2	0.22	1242	1141	<2	1.78	4
105J_1989_1477	0	3.6	4	68	90	0.25	24.5	41	9.0	<0.2	0.44	533	905	4	3.50	4

Unique ID	Rep Stat	Na ICP-MS % 0.001	Na INAA pct 0.02	Ni AAS ppm 2	Ni ICP-MS ppm 0.1	P ICP-MS % 0.001	Pb AAS ppm 2	Pb ICP-MS ppm 0.01	Rb INAA ppm 5	S ICP-MS % 0.01	Sb HY-AAS ppm 0.2	Sb ICP-MS ppm 0.02	Sb INAA ppm 0.1	Sc ICP-MS ppm 0.1	Sc INAA ppm 0.2	Se ICP-MS ppm 0.1
105J_1989_1442	1	0.005	0.47	48	43.6	0.099	8	10.10	69	0.07	2.0	1.79	2.7	2.8	11.0	2.5
105J_1989_1443	2	0.005	0.53	47	44.0	0.099	9	10.17	70	0.08	1.9	1.77	2.9	2.7	12.0	2.7
105J_1989_1444	0	0.005	0.54	40	40.0	0.097	7	10.42	72	0.10	1.8	1.65	2.7	2.7	11.0	2.4
105J_1989_1445	0	0.004	0.46	29	31.0	0.089	7	11.70	62	0.07	2.1	1.79	3.0	2.7	11.0	2.7
105J_1989_1446	0	0.026	0.75	18	16.1	0.107	6	8.87	30	0.41	0.9	1.19	1.3	1.5	5.6	20.2
105J_1989_1447	0	0.006	0.51	45	44.4	0.105	6	11.64	80	0.10	1.7	1.42	2.9	3.1	11.0	2.7
105J_1989_1448	0	0.005	0.36	54	54.9	0.091	8	12.79	70	0.09	2.4	2.26	3.2	2.8	11.0	3.0
105J_1989_1449	0	0.009	0.67	58	55.4	0.110	8	11.04	76	0.10	1.6	1.27	2.4	2.9	12.0	2.9
105J_1989_1450	0	0.005	0.56	46	44.5	0.088	8	13.71	86	0.08	1.7	1.36	2.4	3.1	15.0	1.4
105J_1989_1451	0	0.007	0.59	39	37.3	0.060	11	13.92	79	0.05	1.2	1.01	1.8	2.7	12.0	1.9
105J_1989_1452	0	0.013	0.54	24	24.8	0.071	11	15.51	61	0.04	1.1	0.99	1.7	2.2	9.1	1.1
105J_1989_1453	0	0.006	0.42	42	44.1	0.103	8	10.98	70	0.05	2.0	1.91	2.9	2.2	10.0	1.5
105J_1989_1454	0	0.010	0.79	19	18.1	0.073	18	21.01	76	0.11	5.0	3.95	6.9	2.1	11.0	1.2
105J_1989_1455	0	0.059	2.61	2	2.7	0.033	<2	0.66	31	0.24	<0.2	0.08	0.4	0.3	6.2	0.3
105J_1989_1456	0	0.009	0.46	49	46.1	0.125	6	10.55	66	0.07	1.5	2.19	3.5	2.4	10.0	4.9
105J_1989_1457	0	0.007	0.67	33	37.9	0.143	9	10.09	65	0.06	1.2	1.25	1.9	2.5	10.0	2.0
105J_1989_1458	0	0.005	0.35	53	53.6	0.170	5	9.95	77	0.06	2.6	2.26	3.8	2.3	10.0	2.3
105J_1989_1459	0	0.008	0.68	37	36.7	0.176	7	11.56	64	0.09	1.3	1.50	2.2	2.2	11.0	3.4
105J_1989_1462	1	0.005	0.20	69	71.9	0.264	16	23.56	81	0.14	2.6	2.45	4.0	3.7	15.0	2.8
105J_1989_1463	2	0.005	0.24	70	69.3	0.242	18	21.14	79	0.16	2.0	2.06	2.9	3.3	14.0	3.6
105J_1989_1464	0	0.008	0.38	45	44.2	0.149	8	12.07	69	0.08	1.3	1.57	2.3	2.6	11.0	2.6
105J_1989_1465	0	0.010	0.65	34	34.0	0.190	9	10.11	64	0.15	1.8	1.62	2.8	2.9	10.0	4.0
105J_1989_1466	0	0.005	0.51	41	41.3	0.169	10	13.64	68	0.05	2.3	2.03	3.2	3.3	13.0	1.6
105J_1989_1467	0	0.005	0.41	41	40.5	0.176	8	13.26	73	0.05	2.3	2.20	3.1	3.3	13.0	1.3
105J_1989_1468	0	0.007	0.60	37	37.7	0.161	9	10.70	66	0.05	1.8	1.71	2.6	2.5	11.0	2.1
105J_1989_1469	0	0.008	0.46	35	36.2	0.144	10	9.29	73	0.03	1.7	1.10	2.0	2.5	9.5	1.6
105J_1989_1471	0	0.017	1.10	31	28.7	0.172	12	13.98	64	0.08	1.6	1.46	2.3	1.5	10.0	2.0
105J_1989_1472	0	0.007	0.50	50	49.1	0.137	7	9.66	72	0.05	1.9	1.57	2.8	2.5	11.0	3.2
105J_1989_1473	0	0.012	1.00	32	33.2	0.077	7	9.35	69	0.13	0.5	0.46	0.9	1.6	10.0	1.8
105J_1989_1474	0	0.013	0.94	26	26.4	0.072	34	39.47	85	0.10	1.8	1.56	2.5	3.1	12.0	2.2
105J_1989_1475	0	0.008	0.56	81	77.8	0.154	11	14.94	81	0.17	4.0	3.14	5.4	2.3	12.0	3.7
105J_1989_1476	0	0.014	0.66	27	25.8	0.130	10	12.68	37	0.36	0.6	0.94	1.2	1.5	7.1	4.6
105J_1989_1477	0	0.009	0.57	40	47.9	0.102	30	45.00	67	0.21	4.0	4.88	5.3	3.1	12.0	3.7

Unique ID	Rep Stat	Sm INAA ppm 0.1	Sn AAS ppm 1	Sr ICP-MS ppm 0.5	Ta INAA ppm 0.5	Tb INAA ppm 0.5	Te ICP-MS ppm 0.02	Th ICP-MS ppm 0.1	Th INAA ppm 0.2	Ti ICP-MS % 0.001	Tl ICP-MS ppm 0.02	U ICP-MS ppm 0.1	U INAA ppm 0.2	U NADNC ppm 0.5	V AAS ppm 5	V ICP-MS ppm 2
105J_1989_1442	1	4.0	2	44.0	0.9	0.9	0.05	1.8	6.7	0.004	0.19	1.5	4.6	4.3	51	29
105J_1989_1443	2	4.4	3	46.2	1.0	0.9	0.07	1.8	7.3	0.004	0.20	1.5	5.0	4.6	65	30
105J_1989_1444	0	4.6	2	39.6	1.1	0.9	0.06	2.1	7.7	0.006	0.18	1.3	4.5	3.9	49	29
105J_1989_1445	0	4.7	5	42.0	0.9	1.0	0.06	2.1	8.1	0.003	0.18	1.3	4.8	4.2	57	28
105J_1989_1446	0	2.9	6	91.5	<0.5	0.6	0.03	0.4	3.2	0.010	0.15	2.0	3.0	3.3	47	12
105J_1989_1447	0	5.2	3	42.6	1.0	1.0	0.07	1.9	8.9	0.004	0.22	1.7	5.9	5.5	32	30
105J_1989_1448	0	4.0	3	46.4	1.0	0.9	0.09	1.2	7.3	0.004	0.30	3.2	6.3	7.8	78	43
105J_1989_1449	0	4.4	3	52.9	0.7	0.8	0.04	1.2	7.6	0.004	0.26	1.7	4.7	4.6	64	34
105J_1989_1450	0	5.8	4	41.3	1.2	1.0	0.05	2.2	10.0	0.005	0.17	1.2	4.9	4.3	54	29
105J_1989_1451	0	4.7	3	44.9	0.9	0.8	0.03	2.2	9.2	0.005	0.15	0.6	3.6	3.1	52	24
105J_1989_1452	0	3.7	4	50.6	0.8	0.6	0.03	1.9	7.6	0.008	0.11	1.0	3.3	3.2	43	33
105J_1989_1453	0	4.3	3	46.1	0.9	0.7	0.04	2.7	7.7	0.007	0.15	1.3	4.1	3.8	66	37
105J_1989_1454	0	4.6	5	44.1	0.9	0.8	0.02	3.0	10.0	0.006	0.18	2.1	5.0	4.7	48	28
105J_1989_1455	0	2.0	3	47.3	<0.5	<0.5	<0.02	0.1	3.8	0.020	0.03	0.2	2.1	2.2	40	12
105J_1989_1456	0	4.2	3	61.4	0.8	0.8	0.09	1.6	6.5	0.007	0.30	3.1	6.3	6.4	79	77
105J_1989_1457	0	4.8	3	58.5	1.2	1.0	0.02	2.2	8.0	0.010	0.16	1.5	5.1	4.4	53	49
105J_1989_1458	0	4.9	5	69.1	1.3	0.9	0.06	2.8	7.8	0.006	0.19	2.9	7.5	6.7	73	71
105J_1989_1459	0	4.4	4	66.2	1.3	1.0	0.04	1.5	7.8	0.009	0.15	2.4	6.0	5.1	56	43
105J_1989_1462	1	6.6	5	105.2	1.3	1.6	0.16	2.5	10.0	0.004	0.26	5.5	11.0	9.2	83	55
105J_1989_1463	2	5.5	5	104.3	1.1	1.0	0.12	2.3	8.4	0.004	0.23	8.1	12.0	11.9	81	47
105J_1989_1464	0	4.2	4	60.5	0.9	0.8	0.05	1.7	6.6	0.008	0.19	3.2	6.3	6.1	53	50
105J_1989_1465	0	4.6	3	48.6	1.0	0.9	0.03	2.9	7.3	0.007	0.20	2.1	5.7	4.8	73	60
105J_1989_1466	0	5.5	8	73.0	1.6	0.9	0.08	3.0	8.7	0.007	0.17	1.6	6.1	5.4	65	44
105J_1989_1467	0	5.7	4	71.1	1.7	1.2	0.06	3.1	8.8	0.005	0.17	1.8	6.4	5.8	71	44
105J_1989_1468	0	4.7	4	65.1	1.0	1.0	0.04	1.2	7.3	0.006	0.18	1.9	5.1	5.1	82	54
105J_1989_1469	0	4.0	5	54.0	1.1	0.9	0.05	1.5	7.2	0.007	0.16	2.0	5.3	4.9	52	53
105J_1989_1471	0	3.4	2	49.2	1.0	0.8	0.04	0.5	7.0	0.006	0.18	1.9	5.0	4.7	44	49
105J_1989_1472	0	4.3	4	57.0	1.0	1.0	0.04	2.1	7.3	0.006	0.22	1.9	5.3	4.9	48	51
105J_1989_1473	0	4.2	3	79.4	0.8	0.6	0.02	2.3	7.5	0.012	0.15	1.2	3.8	3.7	23	24
105J_1989_1474	0	4.7	4	88.8	1.1	0.8	0.03	3.0	10.0	0.007	0.15	1.2	4.0	4.1	26	25
105J_1989_1475	0	5.8	3	56.8	1.0	1.1	0.06	3.1	9.2	0.011	0.32	4.2	8.9	7.5	73	68
105J_1989_1476	0	2.4	3	200.6	<0.5	<0.5	0.03	0.4	4.9	0.007	0.19	4.1	5.0	5.2	36	36
105J_1989_1477	0	6.2	5	70.5	0.8	1.1	0.16	4.6	9.4	0.041	0.44	3.6	5.0	5.0	56	46

Unique ID	Rep Stat	W ICP-MS ppm 0.1	W INAA ppm 1	wt INAA g 0.01	Yb INAA ppm 2	Zn AAS ppm 2	Zn ICP-MS ppm 0.1
105J_1989_1442	1	<0.1	<1	21.09	3	178	167.7
105J_1989_1443	2	<0.1	1	40.58	3	168	176.0
105J_1989_1444	0	0.2	1	40.62	3	168	166.9
105J_1989_1445	0	<0.1	2	39.60	3	110	110.9
105J_1989_1446	0	<0.1	<1	13.67	<2	72	67.1
105J_1989_1447	0	<0.1	1	37.65	3	219	220.7
105J_1989_1448	0	<0.1	1	15.26	3	357	396.2
105J_1989_1449	0	<0.1	2	27.58	3	331	354.7
105J_1989_1450	0	<0.1	1	41.09	4	205	198.9
105J_1989_1451	0	0.1	1	34.53	<2	169	159.1
105J_1989_1452	0	<0.1	<1	14.26	<2	111	106.5
105J_1989_1453	0	0.2	2	42.95	2	195	206.8
105J_1989_1454	0	0.5	2	35.83	3	120	110.7
105J_1989_1455	0	<0.1	<1	28.05	<2	12	12.7
105J_1989_1456	0	0.2	1	33.05	2	230	211.7
105J_1989_1457	0	<0.1	<1	35.62	3	171	181.1
105J_1989_1458	0	<0.1	<1	39.65	2	318	337.4
105J_1989_1459	0	<0.1	1	31.59	3	206	203.1
105J_1989_1462	1	<0.1	<1	21.90	4	226	224.0
105J_1989_1463	2	<0.1	<1	31.07	3	245	236.9
105J_1989_1464	0	<0.1	<1	26.64	3	179	173.2
105J_1989_1465	0	<0.1	1	32.16	3	204	188.3
105J_1989_1466	0	0.1	<1	46.07	3	194	192.0
105J_1989_1467	0	<0.1	1	38.59	3	175	178.1
105J_1989_1468	0	<0.1	<1	33.76	3	191	187.7
105J_1989_1469	0	<0.1	<1	26.73	<2	989	920.6
105J_1989_1471	0	<0.1	<1	22.88	2	178	172.2
105J_1989_1472	0	<0.1	2	39.14	3	239	265.1
105J_1989_1473	0	0.1	<1	32.96	2	125	137.7
105J_1989_1474	0	<0.1	2	29.14	3	136	143.1
105J_1989_1475	0	0.3	1	39.34	4	558	561.2
105J_1989_1476	0	<0.1	1	13.21	<2	118	103.8
105J_1989_1477	0	0.4	1	19.42	3	174	176.7

Unique ID	Rep Stat	Ag AAS	Ag ICP-MS	Al ICP-MS	As HY-AAS	As ICP-MS	As INAA	Au INAA	Au1 INAA	Au1_wt -	B ICP-MS	Ba ICP-MS	Ba INAA	Bi ICP-MS	Br INAA	Ca ICP-MS
		ppm	ppb	%	ppm	ppm	ppm	ppb	ppb	g	ppm	ppm	ppm	ppm	ppm	%
		0.2	2	0.01	1	0.1	0.5	2	2	0.01	1	0.5	50	0.02	0.5	0.01
105J_1989_1478	0	0.5	448	1.05	3	3.7	5.3	5			4	327.8	1700	0.16	7.3	0.57
105J_1989_1479	0	0.3	605	0.97	12	15.7	21.0	6			3	716.0	3000	0.27	3.6	0.40
105J_1989_1480	0	<0.2	488	0.93	18	24.5	30.0	4			2	1051.6	4100	0.24	2.7	0.40
105J_1989_1482	1	0.3	424	0.84	18	23.4	30.0	6			2	950.8	3900	0.22	2.1	0.36
105J_1989_1483	2	0.3	432	0.82	18	23.2	29.0	4			2	895.0	3900	0.23	1.8	0.36
105J_1989_1484	0	<0.2	87	0.74	3	4.2	6.0	<2			4	452.0	1300	0.18	6.1	0.47
105J_1989_1485	0	0.5	188	0.72	8	11.0	15.0	<2			2	541.3	2300	0.18	1.7	0.38
105J_1989_1486	0	0.5	517	1.08	6	8.1	11.0	10			2	951.8	3200	0.15	4.8	0.39
105J_1989_1487	0	0.2	191	0.30	<1	0.5	2.0	3			1	128.8	710	0.03	6.7	0.24
105J_1989_1488	0	<0.2	40	0.19	1	1.7	2.2	<2			7	130.5	270	0.02	7.6	1.89
105J_1989_1489	0	0.3	396	0.71	36	53.6	66.0	5			3	415.9	2000	0.19	4.7	0.42
105J_1989_1490	0	<0.2	493	0.83	10	14.0	16.0	4			4	518.3	1900	0.16	4.0	0.58
105J_1989_1491	0	0.4	297	1.01	4	6.0	8.4	4			3	581.7	3300	0.10	4.4	0.56
105J_1989_1492	0	<0.2	161	0.81	2	2.1	3.8	<2			2	390.0	1300	0.13	5.7	0.60
105J_1989_1493	0	<0.2	485	1.11	5	4.9	9.5	13			4	683.5	2000	0.14	14.0	1.09
105J_1989_1494	0	0.9	1087	0.76	9	11.6	16.0	6			4	527.1	4200	0.12	3.3	0.65
105J_1989_1495	0	2.0	2160	0.69	10	12.7	20.0	8			4	1771.9	9960	0.13	3.6	0.83
105J_1989_1496	0	1.9	1683	0.88	7	5.6	10.0	9			3	1108.5	3200	0.15	4.2	0.57
105J_1989_1497	0	<0.2	294	0.85	6	7.5	9.1	3			4	445.4	2200	0.07	12.0	0.78
105J_1989_1498	0	0.2	308	0.97	2	2.7	3.8	5			3	326.9	1900	0.13	6.4	0.61
105J_1989_1499	0	<0.2	199	0.75	6	7.2	8.2	4			3	634.4	2500	0.09	3.9	0.74
105J_1989_1502	0	0.2	304	0.85	8	8.7	11.0	3			5	685.1	2700	0.12	7.3	0.74
105J_1989_1503	1	<0.2	225	0.56	2	0.8	2.7	<2			3	323.6	1100	0.05	7.5	1.16
105J_1989_1504	2	<0.2	230	0.57	1	1.2	3.6	<2			4	337.2	1200	0.05	11.0	1.33
105J_1989_1505	0	<0.2	193	0.46	3	<0.1	5.2	<2			7	414.9	980	0.05	15.0	2.07
105J_1989_1506	0	<0.2	146	0.50	2	2.1	3.4	4			4	264.6	1300	0.05	6.0	1.41
105J_1989_1507	0	0.7	580	1.15	11	14.8	18.0	5			3	804.0	3300	0.25	4.1	0.34
105J_1989_1508	0	<0.2	564	1.11	16	22.0	27.0	4			2	1119.9	4500	0.22	2.8	0.42
105J_1989_1509	0	<0.2	465	1.19	20	28.9	35.0	4			3	1351.9	4300	0.26	3.1	0.38
105J_1989_1510	0	<0.2	404	1.17	13	17.4	20.0	6			2	1004.4	3500	0.27	2.2	0.24
105J_1989_1511	0	<0.2	437	0.96	20	39.0	42.0	<2			2	1353.6	4800	0.18	1.3	0.31
105J_1989_1513	0	<0.2	477	1.36	20	33.4	39.0	3			2	950.4	3700	0.33	8.9	0.42
105J_1989_1514	0	1.1	1243	1.29	65	106.9	113.0	12			2	1176.9	5430	1.02	12.0	0.55

Unique ID	Rep Stat	Cd AAS	Cd ICP-MS	Ce INAA	Co AAS	Co ICP-MS	Co INAA	Cr ICP-MS	Cr INAA	Cs INAA	Cu AAS	Cu ICP-MS	Eu INAA	F ISE	Fe AAS	Fe ICP-MS	Fe INAA
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	pct	%	pct
		0.2	0.01	5	2	0.1	5	0.5	20	0.5	2	0.01	1	20	0.02	0.01	0.2
105J_1989_1478	0	0.7	1.00	41	6	5.6	9	11.7	62	10.0	36	35.43	2	337	2.64	2.43	3.5
105J_1989_1479	0	2.1	2.18	49	9	12.3	16	16.9	79	5.2	53	51.01	<1	460	2.23	2.00	2.4
105J_1989_1480	0	4.8	5.08	48	14	17.6	24	15.5	58	5.7	51	52.92	2	434	2.75	2.66	2.9
105J_1989_1482	1	3.8	3.60	53	13	15.5	24	14.3	57	5.3	48	46.32	1	487	2.56	2.46	3.2
105J_1989_1483	2	3.8	4.01	52	13	15.5	24	14.6	72	5.1	45	46.32	1	519	2.60	2.41	2.9
105J_1989_1484	0	<0.2	0.34	67	10	12.1	16	17.5	68	4.1	22	22.16	<1	398	2.38	2.31	3.1
105J_1989_1485	0	0.6	1.00	56	12	12.3	18	14.1	66	4.3	31	33.43	1	418	2.44	2.48	3.5
105J_1989_1486	0	1.8	2.21	43	12	14.5	21	14.2	63	5.4	54	55.68	<1	448	2.34	2.28	2.9
105J_1989_1487	0	0.5	0.82	24	2	1.4	11	3.8	<20	1.3	29	31.29	<1	290	0.48	0.40	2.3
105J_1989_1488	0	<0.2	0.46	11	2	1.2	<5	2.3	<20	<0.5	9	9.13	<1	109	0.41	0.34	0.8
105J_1989_1489	0	0.7	1.42	47	8	9.2	12	10.5	69	6.6	35	34.15	<1	457	2.32	2.20	2.9
105J_1989_1490	0	1.2	1.93	45	13	16.0	18	11.8	63	6.5	39	40.04	1	462	2.50	2.39	2.8
105J_1989_1491	0	1.0	1.52	38	8	8.3	11	18.6	53	3.6	31	31.01	1	455	2.42	2.20	2.8
105J_1989_1492	0	0.4	0.92	48	9	9.0	15	11.3	35	2.7	27	26.07	<1	351	1.79	1.75	2.1
105J_1989_1493	0	1.9	2.45	39	15	20.3	27	14.1	24	4.5	67	58.36	<1	452	3.79	3.72	3.9
105J_1989_1494	0	5.8	6.13	38	10	10.3	14	25.8	84	3.4	67	62.75	1	523	1.66	1.33	1.7
105J_1989_1495	0	9.8	10.55	44	6	6.7	12	32.0	93	3.3	77	71.84	2	549	1.63	1.51	2.4
105J_1989_1496	0	9.7	10.00	43	7	7.6	10	25.8	88	3.7	81	73.42	<1	451	1.74	1.49	2.2
105J_1989_1497	0	1.1	1.87	50	5	6.7	11	11.0	41	3.4	18	18.59	<1	390	2.15	1.68	2.5
105J_1989_1498	0	0.4	1.11	65	7	7.1	9	15.3	53	3.9	28	27.55	<1	455	1.73	1.47	2.1
105J_1989_1499	0	0.5	0.91	58	5	6.3	9	11.7	63	3.3	17	16.97	<1	528	1.55	1.54	2.3
105J_1989_1502	0	1.4	1.66	56	7	8.9	11	13.5	57	4.5	29	27.81	1	457	2.32	2.20	2.9
105J_1989_1503	1	1.9	2.18	33	2	2.4	9	7.0	46	2.2	16	17.00	<1	361	0.89	0.82	2.0
105J_1989_1504	2	1.9	1.73	34	3	2.5	9	7.7	42	2.4	18	18.80	<1	303	0.92	0.87	2.3
105J_1989_1505	0	4.4	3.62	32	5	3.9	6	5.0	<20	1.6	32	27.39	<1	206	1.04	1.04	1.9
105J_1989_1506	0	0.8	0.71	46	3	3.0	<5	6.3	41	2.9	15	14.53	<1	326	0.76	0.74	1.4
105J_1989_1507	0	3.3	2.82	63	7	6.9	8	17.3	78	6.4	35	32.66	1	370	1.96	1.63	2.2
105J_1989_1508	0	5.9	4.98	76	10	9.3	12	16.0	85	5.9	34	33.33	<1	360	2.28	1.91	2.7
105J_1989_1509	0	7.0	6.37	71	12	12.3	14	16.8	68	6.5	37	34.97	<1	329	2.26	2.35	3.1
105J_1989_1510	0	1.4	1.26	67	6	6.6	8	15.2	64	6.4	27	25.34	<1	310	1.92	1.80	2.4
105J_1989_1511	0	1.6	1.50	64	7	8.1	11	13.9	68	5.4	30	29.29	1	303	2.65	2.57	3.2
105J_1989_1513	0	3.5	3.18	74	11	14.7	18	15.3	62	6.4	26	25.16	<1	335	2.86	2.48	3.5
105J_1989_1514	0	15.7	15.90	69	14	15.8	19	23.3	80	6.6	90	91.13	1	557	3.24	3.00	3.6

Unique ID	Rep Stat	Ga ICP-MS ppm 0.2	Hf INAA ppm 1	Hg CV-AAS ppb 10	Hg ICP-MS ppb 5	K ICP-MS % 0.01	La ICP-MS ppm 0.5	La INAA ppm 2	LOI GRAV pct 1.0	Lu INAA ppm 0.2	Mg ICP-MS % 0.01	Mn AAS ppm 5	Mn ICP-MS ppm 1	Mo AAS ppm 2	Mo ICP-MS ppm 0.01	Mo INAA ppm 1
105J_1989_1478	0	2.6	4	156	154	0.12	6.5	33	14.9	<0.2	0.29	418	403	<2	0.81	1
105J_1989_1479	0	2.5	4	204	199	0.08	11.5	37	7.5	<0.2	0.30	115	122	4	4.25	5
105J_1989_1480	0	2.3	4	146	155	0.09	15.5	41	5.3	<0.2	0.28	532	665	6	6.35	7
105J_1989_1482	1	2.1	4	139	140	0.08	12.9	40	5.6	<0.2	0.25	461	482	5	5.68	9
105J_1989_1483	2	2.1	4	133	149	0.08	12.2	40	5.1	<0.2	0.25	488	544	5	6.04	8
105J_1989_1484	0	2.4	8	82	68	0.12	9.5	45	7.6	<0.2	0.34	212	247	<2	0.72	2
105J_1989_1485	0	2.2	4	116	114	0.09	8.1	39	3.8	<0.2	0.31	632	720	2	2.73	4
105J_1989_1486	0	2.5	5	204	239	0.12	8.7	33	6.8	<0.2	0.29	452	516	4	3.35	5
105J_1989_1487	0	0.9	2	105	113	0.03	2.4	16	22.8	<0.2	0.08	39	41	4	3.51	6
105J_1989_1488	0	0.5	<1	58	52	0.01	0.6	5	67.8	<0.2	0.27	477	404	2	1.08	3
105J_1989_1489	0	1.7	4	218	225	0.09	6.8	34	10.0	<0.2	0.15	536	547	2	2.26	3
105J_1989_1490	0	1.9	5	258	287	0.12	7.3	32	11.4	<0.2	0.18	387	387	2	3.11	5
105J_1989_1491	0	2.7	3	151	147	0.10	13.9	30	13.6	<0.2	0.48	627	613	<2	0.63	<1
105J_1989_1492	0	2.0	4	88	80	0.06	10.1	34	16.2	<0.2	0.28	857	702	<2	0.31	2
105J_1989_1493	0	2.5	3	228	258	0.09	13.0	28	24.4	<0.2	0.45	4086	3109	<2	1.40	3
105J_1989_1494	0	2.3	2	309	346	0.08	16.5	33	17.4	<0.2	0.23	394	310	6	6.80	8
105J_1989_1495	0	2.5	3	313	339	0.08	9.2	34	12.8	<0.2	0.22	1134	1022	10	10.84	14
105J_1989_1496	0	2.8	2	398	481	0.08	9.6	25	21.2	<0.2	0.22	404	304	6	6.24	6
105J_1989_1497	0	2.5	3	143	146	0.09	7.9	22	17.0	<0.2	0.32	4860	3397	<2	1.22	2
105J_1989_1498	0	2.8	4	143	145	0.08	11.5	30	15.0	<0.2	0.34	201	166	<2	0.52	<1
105J_1989_1499	0	2.3	6	105	100	0.10	10.5	28	8.6	<0.2	0.36	311	321	<2	1.11	1
105J_1989_1502	0	2.5	4	133	133	0.12	12.0	29	11.6	<0.2	0.36	820	736	2	2.24	2
105J_1989_1503	1	1.4	3	95	85	0.02	6.0	15	23.1	<0.2	0.13	196	202	<2	0.90	2
105J_1989_1504	2	1.5	4	102	85	0.03	5.5	18	29.5	<0.2	0.13	274	234	<2	1.08	2
105J_1989_1505	0	1.1	2	109	92	0.02	5.5	15	49.9	<0.2	0.15	159	142	2	2.73	4
105J_1989_1506	0	1.5	3	88	74	0.05	7.5	22	20.3	<0.2	0.19	384	306	<2	0.25	<1
105J_1989_1507	0	2.9	3	173	178	0.10	12.6	31	13.4	<0.2	0.28	152	145	11	10.99	11
105J_1989_1508	0	2.9	5	168	180	0.11	12.2	38	8.8	<0.2	0.26	990	942	10	10.26	10
105J_1989_1509	0	3.1	4	161	155	0.14	15.0	36	7.4	<0.2	0.31	512	585	11	11.14	12
105J_1989_1510	0	3.4	4	146	141	0.13	15.0	32	6.9	<0.2	0.29	461	461	4	3.88	4
105J_1989_1511	0	2.7	4	129	138	0.10	10.1	30	7.8	<0.2	0.24	197	217	5	4.87	5
105J_1989_1513	0	3.5	4	129	112	0.11	13.0	33	12.7	<0.2	0.29	1746	1794	5	5.20	5
105J_1989_1514	0	3.0	4	350	400	0.11	16.1	34	10.6	<0.2	0.27	831	847	13	12.99	12

Unique ID	Rep Stat	Na ICP-MS % 0.001	Na INAA pct 0.02	Ni AAS ppm 2	Ni ICP-MS ppm 0.1	P ICP-MS % 0.001	Pb AAS ppm 2	Pb ICP-MS ppm 0.01	Rb INAA ppm 5	S ICP-MS % 0.01	Sb HY-AAS ppm 0.2	Sb ICP-MS ppm 0.02	Sb INAA ppm 0.1	Sc ICP-MS ppm 0.1	Sc INAA ppm 0.2	Se ICP-MS ppm 0.1
105J_1989_1478	0	0.010	0.48	29	27.7	0.081	12	16.72	90	0.08	0.8	0.67	1.3	3.4	13.0	2.8
105J_1989_1479	0	0.011	0.50	59	56.0	0.122	15	15.89	78	0.19	3.1	2.57	4.1	2.8	11.0	7.3
105J_1989_1480	0	0.008	0.41	81	86.8	0.153	12	13.93	78	0.06	3.3	2.74	4.4	2.4	10.0	3.0
105J_1989_1482	1	0.008	0.45	73	68.8	0.140	13	13.21	79	0.07	3.4	2.86	4.3	2.4	10.0	2.9
105J_1989_1483	2	0.008	0.47	73	74.8	0.139	12	12.81	77	0.07	3.1	2.96	4.2	2.2	10.0	2.9
105J_1989_1484	0	0.012	0.73	24	24.6	0.063	12	13.66	80	0.07	0.7	0.58	1.0	2.8	12.0	0.5
105J_1989_1485	0	0.008	0.69	31	33.8	0.091	10	12.13	80	0.07	1.6	1.39	2.4	2.5	12.0	1.3
105J_1989_1486	0	0.006	0.43	90	93.3	0.107	10	9.52	71	0.06	2.0	1.53	2.6	2.5	11.0	3.0
105J_1989_1487	0	0.059	2.09	10	11.4	0.029	<2	1.42	23	0.22	0.3	0.33	0.6	0.5	8.6	0.8
105J_1989_1488	0	0.026	0.70	6	8.2	0.036	<2	0.69	10	0.66	0.3	0.45	0.5	0.3	2.1	0.5
105J_1989_1489	0	0.007	0.41	40	37.6	0.136	9	9.89	78	0.09	3.3	2.23	4.0	2.9	11.0	2.6
105J_1989_1490	0	0.010	0.32	60	57.9	0.153	7	10.02	74	0.19	2.8	2.31	3.8	3.3	10.0	3.3
105J_1989_1491	0	0.011	0.44	32	32.9	0.142	6	7.27	62	0.23	0.7	0.58	1.0	2.2	8.3	3.7
105J_1989_1492	0	0.012	0.67	18	19.5	0.095	7	9.53	61	0.19	0.4	0.31	0.6	1.8	7.5	1.4
105J_1989_1493	0	0.011	0.46	68	66.0	0.144	10	10.25	58	0.19	0.9	0.96	1.5	2.7	7.6	11.5
105J_1989_1494	0	0.009	0.32	81	71.4	0.121	9	9.56	62	0.47	3.8	3.71	5.8	2.5	8.7	5.7
105J_1989_1495	0	0.006	0.50	87	78.7	0.210	7	9.97	62	0.11	4.5	4.69	8.0	2.2	9.3	8.6
105J_1989_1496	0	0.014	0.63	80	71.6	0.146	7	10.15	60	0.20	3.8	4.26	5.9	2.3	7.5	16.4
105J_1989_1497	0	0.010	0.66	17	16.7	0.149	6	5.28	75	0.15	0.5	0.37	0.7	1.6	6.9	1.2
105J_1989_1498	0	0.010	0.57	19	18.8	0.114	6	8.48	75	0.19	0.5	0.52	1.0	2.4	7.9	1.2
105J_1989_1499	0	0.011	0.55	17	18.3	0.141	6	7.33	66	0.07	1.0	0.87	1.5	2.2	7.1	0.9
105J_1989_1502	0	0.011	0.49	27	26.5	0.143	10	10.40	73	0.09	1.5	1.28	2.2	2.8	8.0	2.0
105J_1989_1503	1	0.014	1.20	11	11.9	0.131	3	3.75	32	0.26	0.4	0.54	0.8	1.1	6.9	5.2
105J_1989_1504	2	0.014	1.20	13	12.1	0.131	<2	3.37	37	0.32	0.4	0.53	0.9	1.2	7.5	5.5
105J_1989_1505	0	0.015	0.84	17	15.1	0.092	3	3.19	24	0.54	0.7	1.17	1.5	1.2	4.8	24.9
105J_1989_1506	0	0.017	0.87	12	11.0	0.091	4	4.04	55	0.11	0.4	0.56	1.0	1.6	6.2	1.7
105J_1989_1507	0	0.011	0.52	70	66.0	0.121	11	13.01	85	0.13	2.6	2.43	3.9	1.9	10.0	3.1
105J_1989_1508	0	0.011	0.74	82	79.6	0.137	11	11.08	96	0.11	3.2	2.82	4.7	2.0	9.3	4.7
105J_1989_1509	0	0.014	0.75	70	69.4	0.112	8	11.11	97	0.06	3.3	2.56	4.4	2.2	9.3	3.4
105J_1989_1510	0	0.015	0.87	26	25.3	0.070	9	9.82	110	0.04	1.8	1.40	2.5	2.2	8.7	1.4
105J_1989_1511	0	0.014	0.73	33	34.0	0.090	11	10.68	81	0.07	2.5	1.71	3.0	2.1	8.7	2.7
105J_1989_1513	0	0.012	0.85	35	32.2	0.090	10	11.46	110	0.07	3.0	1.51	2.7	1.8	9.3	2.5
105J_1989_1514	0	0.015	0.53	176	182.7	0.181	14	18.93	96	0.12	7.0	6.37	9.1	3.0	9.0	10.2

Unique ID	Rep Stat	Sm INAA	Sn AAS	Sr ICP-MS	Ta INAA	Tb INAA	Te ICP-MS	Th ICP-MS	Th INAA	Ti ICP-MS	Tl ICP-MS	U ICP-MS	U INAA	U NADNC	V AAS	V ICP-MS
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.5	0.5	0.5	0.02	0.1	0.2	0.001	0.02	0.1	0.2	0.5	5	2
105J_1989_1478	0	4.7	4	52.2	0.8	0.8	0.03	2.2	8.6	0.004	0.23	1.0	3.9	4.0	23	24
105J_1989_1479	0	4.9	3	54.9	1.0	0.9	0.04	3.4	8.8	0.010	0.27	3.1	6.5	6.1	62	60
105J_1989_1480	0	5.6	5	55.3	1.0	1.1	0.04	3.5	8.2	0.011	0.29	4.6	8.2	7.3	65	67
105J_1989_1482	1	5.2	3	52.2	0.9	1.0	0.04	3.2	8.6	0.010	0.27	3.8	7.9	6.4	65	59
105J_1989_1483	2	5.2	2	51.4	0.9	0.9	0.05	2.9	8.6	0.010	0.28	3.8	7.4	6.3	59	59
105J_1989_1484	0	5.6	3	50.9	1.3	1.0	0.03	3.4	14.0	0.013	0.09	0.6	4.1	3.9	24	25
105J_1989_1485	0	4.8	3	48.5	1.0	0.9	0.04	2.7	10.0	0.009	0.13	1.4	4.6	3.9	36	34
105J_1989_1486	0	4.3	4	49.6	0.8	1.0	0.05	2.1	7.5	0.006	0.27	1.8	5.0	4.4	48	50
105J_1989_1487	0	2.3	1	34.2	<0.5	<0.5	<0.02	<0.1	3.1	0.014	0.04	1.1	2.5	2.8	13	12
105J_1989_1488	0	0.6	6	169.1	<0.5	<0.5	<0.02	0.1	1.2	0.009	0.02	0.7	1.1	1.3	14	8
105J_1989_1489	0	4.7	2	46.2	0.9	0.9	0.04	2.7	8.3	0.003	0.26	1.9	5.1	4.8	34	35
105J_1989_1490	0	4.3	4	53.4	0.8	1.0	0.03	2.9	7.7	0.004	0.33	2.3	5.2	5.6	43	44
105J_1989_1491	0	3.8	3	61.1	0.8	0.7	0.03	3.2	7.0	0.004	0.17	1.9	4.6	3.9	39	39
105J_1989_1492	0	4.4	3	56.0	0.8	0.7	<0.02	3.2	9.0	0.004	0.09	2.0	4.0	4.0	21	21
105J_1989_1493	0	4.0	6	87.1	0.7	0.8	0.03	2.8	7.6	0.004	0.20	2.7	5.4	5.1	40	37
105J_1989_1494	0	3.6	4	73.5	0.9	0.9	0.04	2.0	6.2	0.005	0.63	10.9	17.0	15.4	196	203
105J_1989_1495	0	3.9	5	99.5	0.5	0.9	0.09	1.3	6.3	0.005	0.42	9.5	15.0	12.0	191	215
105J_1989_1496	0	3.4	2	68.1	0.6	0.6	0.08	1.6	6.4	0.004	0.32	14.8	17.0	17.8	151	171
105J_1989_1497	0	3.1	3	49.3	0.7	0.6	0.02	1.1	6.1	0.005	0.19	2.1	4.3	3.8	35	32
105J_1989_1498	0	4.2	2	56.5	0.8	0.7	0.02	2.9	7.9	0.004	0.14	2.2	4.6	4.5	36	35
105J_1989_1499	0	4.2	4	83.9	0.9	0.5	0.02	2.7	7.5	0.008	0.12	1.4	3.9	3.4	34	36
105J_1989_1502	0	4.2	4	62.4	0.7	<0.5	0.05	3.0	8.0	0.007	0.19	2.5	5.1	4.8	44	45
105J_1989_1503	1	3.0	3	49.3	<0.5	<0.5	0.02	0.6	4.3	0.005	0.20	1.6	3.3	3.4	17	17
105J_1989_1504	2	3.1	4	54.1	0.6	<0.5	0.02	0.5	4.6	0.005	0.20	1.7	3.8	3.4	18	19
105J_1989_1505	0	1.8	7	69.4	<0.5	<0.5	<0.02	0.7	3.5	0.011	0.09	8.4	11.0	10.7	15	14
105J_1989_1506	0	3.0	4	56.7	0.5	<0.5	0.02	1.2	5.6	0.009	0.09	1.1	3.1	2.7	17	16
105J_1989_1507	0	4.3	6	37.5	0.7	0.6	0.04	1.4	8.1	0.011	0.29	4.7	8.0	8.0	63	61
105J_1989_1508	0	5.6	2	35.2	0.7	0.7	0.05	2.3	10.0	0.014	0.29	3.2	6.3	6.1	89	83
105J_1989_1509	0	5.2	3	30.3	0.7	0.6	0.04	2.2	10.0	0.019	0.33	4.1	7.5	7.1	72	67
105J_1989_1510	0	4.8	2	24.4	0.7	0.6	0.05	3.0	9.4	0.021	0.26	2.3	5.3	4.9	51	46
105J_1989_1511	0	4.8	3	33.2	0.7	0.6	0.05	2.8	8.1	0.009	0.21	1.6	4.3	4.2	39	37
105J_1989_1513	0	4.7	3	37.5	0.7	0.7	0.05	1.3	9.5	0.016	0.26	2.1	4.9	4.9	54	48
105J_1989_1514	0	5.8	3	71.6	1.0	0.9	0.11	2.6	9.3	0.022	0.44	11.9	16.0	15.7	135	139

Unique ID	Rep Stat	W ICP-MS ppm 0.1	W INAA ppm 1	wt INAA g 0.01	Yb INAA ppm 2	Zn AAS ppm 2	Zn ICP-MS ppm 0.1
105J_1989_1478	0	<0.1	<1	23.11	3	154	148.6
105J_1989_1479	0	0.4	2	33.34	3	322	351.5
105J_1989_1480	0	1.2	<1	43.96	3	545	599.5
105J_1989_1482	1	0.2	<1	33.98	3	451	466.2
105J_1989_1483	2	0.5	1	22.32	3	469	504.3
105J_1989_1484	0	<0.1	2	25.37	2	99	91.3
105J_1989_1485	0	0.2	2	40.12	2	159	172.3
105J_1989_1486	0	0.1	<1	32.59	3	369	423.3
105J_1989_1487	0	<0.1	<1	20.89	<2	20	20.5
105J_1989_1488	0	<0.1	<1	12.22	<2	45	43.4
105J_1989_1489	0	0.1	<1	19.51	3	212	214.3
105J_1989_1490	0	<0.1	1	19.65	2	291	336.2
105J_1989_1491	0	<0.1	<1	17.93	<2	203	212.9
105J_1989_1492	0	<0.1	<1	28.97	<2	132	129.9
105J_1989_1493	0	<0.1	1	11.83	<2	377	382.3
105J_1989_1494	0	<0.1	<1	27.87	2	549	543.4
105J_1989_1495	0	0.1	2	31.04	2	803	745.8
105J_1989_1496	0	<0.1	<1	20.95	<2	662	599.9
105J_1989_1497	0	<0.1	<1	27.94	<2	131	138.3
105J_1989_1498	0	<0.1	<1	26.10	<2	137	146.8
105J_1989_1499	0	<0.1	1	32.30	2	114	120.6
105J_1989_1502	0	0.1	1	29.82	<2	200	191.7
105J_1989_1503	1	0.2	<1	12.56	<2	92	102.5
105J_1989_1504	2	<0.1	<1	25.70	<2	99	103.3
105J_1989_1505	0	<0.1	<1	19.18	<2	162	154.1
105J_1989_1506	0	<0.1	<1	30.05	<2	65	66.5
105J_1989_1507	0	0.4	1	27.90	<2	602	555.4
105J_1989_1508	0	2.0	1	34.24	<2	824	769.9
105J_1989_1509	0	0.8	1	33.34	3	702	677.7
105J_1989_1510	0	0.6	2	35.66	<2	147	146.8
105J_1989_1511	0	0.8	2	14.61	<2	156	166.7
105J_1989_1513	0	0.7	1	28.02	<2	235	222.2
105J_1989_1514	0	0.8	2	28.71	3	1670	1699.5

Unique ID	Rep Stat	Ag AAS	Ag ICP-MS	Al ICP-MS	As HY-AAS	As ICP-MS	As INAA	Au INAA	Au1 INAA	Au1_wt -	B ICP-MS	Ba ICP-MS	Ba INAA	Bi ICP-MS	Br INAA	Ca ICP-MS
		ppm	ppb	%	ppm	ppm	ppm	ppb	ppb	g	ppm	ppm	ppm	ppm	ppm	%
		0.2	2	0.01	1	0.1	0.5	2	2	0.01	1	0.5	50	0.02	0.5	0.01
105J_1989_1515	0	1.1	1483	1.34	50	79.0	90.2	10			4	1404.8	7870	0.82	13.0	0.55
105J_1989_1516	0	0.3	391	1.12	20	31.3	35.0	4			2	1333.1	4600	0.24	3.5	0.22
105J_1989_1517	0	0.6	446	1.01	17	34.3	36.0	5			1	511.0	2000	0.18	17.0	0.43
105J_1989_1518	0	<0.2	265	0.75	11	15.8	20.0	4			2	1150.9	4900	0.10	1.6	0.13
105J_1989_1519	0	<0.2	259	0.77	11	14.4	18.0	<2			1	1149.4	4700	0.11	1.3	0.13
105J_1989_1520	0	1.3	1570	0.82	19	37.0	45.0	12			5	1231.8	10000	0.41	4.0	0.58
105J_1989_1522	1	0.4	1248	2.07	750	987.4	832.0	25	39	25.57	2	558.0	3000	5.73	16.0	0.58
105J_1989_1523	2	0.9	1317	1.86	700	855.0	774.0	31	45	9.32	2	554.0	2800	5.92	16.0	0.63
105J_1989_1524	0	0.7	1187	1.91	70	105.0	115.0	8			3	775.2	3800	0.83	14.0	0.51
105J_1989_1525	0	0.6	985	0.66	15	20.0	29.0	8			3	1364.2	3000	0.12	26.0	1.41
105J_1989_1526	0	0.9	1234	2.02	45	63.4	80.6	15	11	15.22	1	508.5	3200	0.44	23.0	0.37
105J_1989_1527	0	0.9	838	2.17	110	161.4	193.0	7			1	223.8	1200	1.60	22.0	0.45
105J_1989_1528	0	1.6	1556	0.56	50	66.2	82.1	10			4	726.3	2100	0.22	16.0	1.12
105J_1989_1530	0	0.6	842	1.26	19	32.1	39.0	8			3	666.3	2900	0.32	10.0	0.31
105J_1989_1531	0	0.2	317	0.86	14	16.9	22.0	6			3	1083.1	4100	0.27	2.5	0.36
105J_1989_1532	0	<0.2	303	0.88	18	21.0	29.0	5			2	754.4	3700	0.31	2.8	0.52
105J_1989_1533	0	<0.2	425	0.81	11	13.9	18.0	4			3	598.6	4000	0.13	4.0	0.49
105J_1989_1534	0	0.4	850	1.48	90	137.2	158.0	<2			4	830.9	2500	0.14	4.1	0.68
105J_1989_1535	0	<0.2	427	0.91	13	16.8	22.0	5			3	715.8	3700	0.26	2.4	0.48
105J_1989_1536	0	0.5	656	1.09	15	7.9	9.3	4			10	232.6	1600	0.17	17.0	1.80
105J_1989_1537	0	0.4	640	0.68	12	20.5	23.0	7			6	664.9	2800	0.12	9.0	1.56
105J_1989_1538	0	0.7	638	0.77	10	13.4	18.0	9			5	970.5	6170	0.16	1.6	0.67
105J_1989_1539	0	0.6	605	0.71	14	14.8	20.0	9			5	933.8	6230	0.17	0.8	0.67
105J_1989_1540	0	0.7	962	0.95	11	13.7	18.0	13			5	1220.0	6010	0.23	1.8	0.41
105J_1989_1542	1	0.3	760	1.27	15	18.9	23.0	12			4	389.6	3500	0.34	2.0	0.56
105J_1989_1544	2	0.5	699	1.21	14	18.2	23.0	11			4	396.5	3800	0.32	2.5	0.56
105J_1989_1545	0	1.9	1844	0.54	16	18.7	25.0	13			5	1144.0	7470	0.20	3.2	0.45
105J_1989_1546	0	1.2	1068	0.80	17	20.6	26.0	13			5	1652.5	8160	0.22	3.4	0.50
105J_1989_1547	0	0.6	1012	1.16	22	31.8	37.0	11			3	999.7	5990	0.30	4.6	0.36
105J_1989_1548	0	1.6	1757	0.73	20	26.3	30.0	9			3	1796.7	13400	0.19	11.0	0.85
105J_1989_1549	0	<0.2	625	0.88	40	66.0	66.0	<2			3	753.8	3700	0.23	4.3	0.34
105J_1989_1550	0	0.2	557	1.31	7	6.7	11.0	<2			3	835.7	3600	0.25	6.3	0.53
105J_1989_1551	0	0.5	712	1.22	18	24.1	32.0	7			3	646.5	4900	0.34	2.9	0.46

Unique ID	Rep Stat	Cd AAS	Cd ICP-MS	Ce INAA	Co AAS	Co ICP-MS	Co INAA	Cr ICP-MS	Cr INAA	Cs INAA	Cu AAS	Cu ICP-MS	Eu INAA	F ISE	Fe AAS	Fe ICP-MS	Fe INAA
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	pct	%	pct
		0.2	0.01	5	2	0.1	5	0.5	20	0.5	2	0.01	1	20	0.02	0.01	0.2
105J_1989_1515	0	12.6	12.73	68	13	17.8	23	25.1	110	7.2	103	101.83	<1	521	2.76	2.74	3.3
105J_1989_1516	0	1.0	0.81	78	13	15.0	21	15.4	77	6.6	22	21.35	<1	463	3.58	3.22	4.2
105J_1989_1517	0	6.6	5.97	49	6	5.7	<5	11.3	44	3.6	54	51.61	<1	176	3.39	3.26	4.1
105J_1989_1518	0	0.9	0.95	75	6	7.2	9	9.8	60	5.7	18	18.06	<1	312	2.16	2.03	3.0
105J_1989_1519	0	0.8	1.01	65	7	7.5	11	10.7	62	5.1	18	18.91	1	267	2.10	1.97	2.8
105J_1989_1520	0	11.2	11.62	81	7	7.4	11	33.6	160	5.5	125	129.45	1	666	2.56	2.69	3.8
105J_1989_1522	1	27.0	32.81	89	29	41.4	39	21.9	49	15.0	298	358.67	2	406	3.34	3.14	3.5
105J_1989_1523	2	30.3	36.64	81	19	33.5	30	21.7	94	19.0	281	313.59	<1	600	3.27	3.10	3.7
105J_1989_1524	0	14.2	13.71	63	18	24.1	33	27.4	91	8.0	103	100.60	2	484	3.15	3.38	4.9
105J_1989_1525	0	51.7	52.25	15	26	37.2	42	8.9	<20	2.2	91	85.16	<1	216	5.64	5.26	6.1
105J_1989_1526	0	11.4	11.28	50	16	23.1	29	23.3	130	8.2	109	104.73	<1	397	3.47	3.35	4.5
105J_1989_1527	0	9.5	8.57	88	14	15.0	22	29.8	75	14.0	93	86.98	<1	310	2.62	2.53	4.2
105J_1989_1528	0	11.4	11.34	<5	5	5.3	7	16.4	<20	1.9	123	122.40	<1	173	19.25	16.81	19.0
105J_1989_1530	0	3.3	2.85	57	17	17.2	22	18.8	55	5.6	41	40.51	1	419	3.67	3.62	4.8
105J_1989_1531	0	2.3	2.09	79	6	6.0	9	13.2	57	5.4	22	22.29	<1	369	1.73	1.58	2.4
105J_1989_1532	0	1.6	1.35	75	5	5.5	8	13.9	70	6.2	25	23.65	<1	402	1.71	1.64	2.5
105J_1989_1533	0	2.0	1.95	67	6	6.5	10	15.8	97	5.1	30	28.94	<1	563	2.03	2.07	3.1
105J_1989_1534	0	43.7	51.86	35	5	5.8	8	31.4	98	4.1	149	161.70	<1	1058	5.24	5.73	8.1
105J_1989_1535	0	1.5	1.43	72	5	6.2	7	16.0	78	5.5	31	31.69	<1	428	1.62	1.48	2.3
105J_1989_1536	0	1.6	5.33	34	5	8.2	8	18.9	66	3.6	32	74.38	<1	410	1.74	1.25	1.6
105J_1989_1537	0	6.0	5.75	33	5	6.7	9	14.0	50	2.7	63	62.77	<1	309	8.15	8.07	8.9
105J_1989_1538	0	2.9	2.52	54	7	7.1	8	21.0	90	4.9	67	64.50	1	624	1.96	1.74	2.4
105J_1989_1539	0	3.0	2.64	65	7	7.5	12	19.5	110	4.8	70	65.38	<1	680	1.94	1.90	2.6
105J_1989_1540	0	3.4	2.79	60	6	6.8	10	23.6	120	5.4	84	77.36	<1	595	2.48	1.99	2.8
105J_1989_1542	1	2.0	1.88	73	8	9.6	12	24.6	88	6.1	71	67.42	<1	512	2.60	2.41	3.2
105J_1989_1544	2	1.7	1.78	70	9	9.2	13	24.0	88	6.8	63	63.29	<1	447	2.42	2.30	3.4
105J_1989_1545	0	10.9	10.78	68	14	14.4	17	23.3	180	4.9	132	130.36	1	600	2.84	2.75	3.7
105J_1989_1546	0	10.2	10.02	70	9	11.1	13	24.2	140	5.7	95	96.81	<1	555	2.59	2.57	3.4
105J_1989_1547	0	12.4	11.89	66	14	16.8	20	29.0	140	6.7	86	80.79	1	466	2.89	2.78	3.6
105J_1989_1548	0	36.6	38.81	56	11	12.1	13	34.7	150	3.7	107	105.46	1	636	2.77	2.56	3.2
105J_1989_1549	0	6.2	5.81	35	5	6.4	6	17.1	43	4.0	46	49.84	<1	391	8.68	9.46	9.1
105J_1989_1550	0	5.9	5.42	64	7	7.4	11	20.3	70	7.2	53	53.66	1	385	1.56	1.33	1.8
105J_1989_1551	0	4.3	3.74	59	12	13.1	16	25.4	73	6.6	67	61.66	<1	420	2.63	2.47	3.3

Unique ID	Rep Stat	Ga ICP-MS ppm 0.2	Hf INAA ppm 1	Hg CV-AAS ppb 10	Hg ICP-MS ppb 5	K ICP-MS % 0.01	La ICP-MS ppm 0.5	La INAA ppm 2	LOI GRAV pct 1.0	Lu INAA ppm 0.2	Mg ICP-MS % 0.01	Mn AAS ppm 5	Mn ICP-MS ppm 1	Mo AAS ppm 2	Mo ICP-MS ppm 0.01	Mo INAA ppm 1
105J_1989_1515	0	3.1	4	381	445	0.13	15.8	36	11.4	<0.2	0.27	797	870	13	14.22	14
105J_1989_1516	0	3.2	4	112	103	0.11	12.2	35	10.2	0.3	0.28	585	573	5	4.79	5
105J_1989_1517	0	1.7	1	180	187	0.05	8.7	19	53.8	<0.2	0.13	109	88	2	4.14	4
105J_1989_1518	0	1.9	4	92	88	0.05	6.7	34	5.8	<0.2	0.16	147	169	4	4.36	4
105J_1989_1519	0	2.0	4	80	77	0.05	6.9	32	4.1	<0.2	0.17	160	198	4	4.19	4
105J_1989_1520	0	2.9	4	383	425	0.14	16.7	43	7.0	<0.2	0.20	170	237	17	17.60	17
105J_1989_1522	1	4.7	3	75	81	0.13	25.9	40	13.0	<0.2	0.35	1206	1379	12	13.79	11
105J_1989_1523	2	4.9	<1	82	85	0.13	24.7	39	16.8	<0.2	0.36	990	1081	11	11.79	12
105J_1989_1524	0	3.9	4	245	291	0.13	17.8	35	9.7	<0.2	0.32	1224	1458	19	16.74	17
105J_1989_1525	0	1.3	1	493	611	0.07	4.1	11	57.8	<0.2	0.26	7488	4859	16	22.88	22
105J_1989_1526	0	3.1	3	325	328	0.09	17.1	30	14.0	<0.2	0.26	1224	1301	16	17.92	18
105J_1989_1527	0	6.5	4	61	45	0.15	25.1	41	10.4	<0.2	0.64	357	388	6	5.13	6
105J_1989_1528	0	1.3	<1	530	701	0.08	3.9	8	45.1	<0.2	0.24	1242	1860	21	36.63	33
105J_1989_1530	0	3.3	4	252	243	0.08	12.1	30	12.0	<0.2	0.28	760	756	10	9.51	10
105J_1989_1531	0	2.5	8	112	123	0.09	14.4	41	5.5	<0.2	0.26	402	379	4	3.88	4
105J_1989_1532	0	2.6	6	116	111	0.09	14.6	39	7.1	<0.2	0.29	402	376	10	8.82	10
105J_1989_1533	0	2.2	4	187	205	0.08	11.9	34	7.6	<0.2	0.29	973	899	4	3.61	4
105J_1989_1534	0	2.4	2	167	193	0.17	8.5	27	14.5	<0.2	0.11	119	148	30	31.52	31
105J_1989_1535	0	2.7	4	139	146	0.09	13.4	32	7.4	<0.2	0.28	461	436	10	9.06	10
105J_1989_1536	0	2.3	1	369	292	0.14	5.9	14	40.3	<0.2	0.47	472	140	9	6.46	7
105J_1989_1537	0	1.7	2	277	300	0.08	5.9	15	29.0	<0.2	0.25	494	514	4	3.24	3
105J_1989_1538	0	2.5	2	308	330	0.15	13.7	31	7.8	<0.2	0.28	400	400	7	6.80	8
105J_1989_1539	0	2.3	3	312	310	0.14	13.8	33	5.7	<0.2	0.29	412	436	8	7.31	8
105J_1989_1540	0	2.8	3	448	448	0.14	16.2	35	9.0	<0.2	0.28	98	107	6	5.76	5
105J_1989_1542	1	3.7	3	273	246	0.14	14.8	32	8.9	<0.2	0.48	523	561	6	5.12	5
105J_1989_1544	2	3.8	4	238	236	0.14	15.2	35	9.1	<0.2	0.47	532	550	5	4.86	5
105J_1989_1545	0	1.7	3	382	383	0.13	10.0	34	11.1	<0.2	0.19	684	732	16	17.32	17
105J_1989_1546	0	2.5	4	333	359	0.14	11.5	30	7.4	<0.2	0.29	758	837	13	13.92	15
105J_1989_1547	0	3.0	3	382	392	0.11	14.2	34	11.0	<0.2	0.31	384	376	10	10.33	10
105J_1989_1548	0	2.3	2	683	811	0.12	10.6	29	13.7	<0.2	0.23	1818	2114	11	18.71	18
105J_1989_1549	0	2.2	2	273	299	0.09	10.6	21	17.1	<0.2	0.27	327	436	6	6.92	6
105J_1989_1550	0	3.3	3	238	238	0.12	12.6	28	15.0	<0.2	0.40	922	785	4	3.62	5
105J_1989_1551	0	3.6	4	207	196	0.13	15.7	34	9.1	<0.2	0.46	507	515	9	8.60	9

Unique ID	Rep Stat	Na ICP-MS	Na INAA	Ni AAS	Ni ICP-MS	P ICP-MS	Pb AAS	Pb ICP-MS	Rb INAA	S ICP-MS	Sb HY-AAS	Sb ICP-MS	Sb INAA	Sc ICP-MS	Sc INAA	Se ICP-MS
		%	pct	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
		0.001	0.02	2	0.1	0.001	2	0.01	5	0.01	0.2	0.02	0.1	0.1	0.2	0.1
105J_1989_1515	0	0.018	0.49	172	170.8	0.196	13	17.30	96	0.11	7.5	7.26	10.4	3.0	9.3	8.4
105J_1989_1516	0	0.010	0.57	32	30.0	0.088	12	12.88	99	0.07	2.6	1.85	3.5	2.1	10.0	2.1
105J_1989_1517	0	0.012	0.50	43	42.6	0.131	8	8.72	49	0.69	2.1	2.74	3.2	1.5	6.7	5.5
105J_1989_1518	0	0.007	0.66	26	27.5	0.079	7	8.28	92	0.07	2.2	1.84	3.6	1.8	10.0	2.2
105J_1989_1519	0	0.008	0.65	26	28.6	0.075	7	8.63	87	0.06	2.1	1.68	3.4	1.8	9.3	2.0
105J_1989_1520	0	0.011	0.39	91	100.2	0.261	15	17.10	99	0.11	8.0	9.17	13.1	3.6	11.0	9.7
105J_1989_1522	1	0.015	0.76	233	264.1	0.197	20	23.10	96	0.14	9.0	7.78	9.3	2.7	9.2	9.5
105J_1989_1523	2	0.014	0.72	236	259.3	0.187	17	26.56	100	0.15	8.5	7.28	9.5	2.6	10.0	8.2
105J_1989_1524	0	0.033	1.00	123	124.3	0.218	21	24.90	81	0.10	10.5	11.34	16.1	2.9	11.0	9.5
105J_1989_1525	0	0.008	0.33	278	298.0	0.283	7	6.29	39	0.30	2.7	6.52	7.3	1.1	5.1	29.4
105J_1989_1526	0	0.011	0.72	94	99.0	0.204	21	26.89	77	0.12	13.0	14.10	21.7	2.3	10.0	8.8
105J_1989_1527	0	0.048	1.70	103	98.7	0.093	62	75.15	89	0.05	6.5	5.83	10.1	3.1	12.0	2.6
105J_1989_1528	0	0.005	0.11	136	153.7	0.641	12	7.40	24	0.46	9.0	11.05	12.7	2.5	4.3	58.6
105J_1989_1530	0	0.014	0.71	77	74.7	0.144	10	10.82	83	0.15	3.2	2.79	4.7	2.6	9.5	7.3
105J_1989_1531	0	0.016	1.10	41	37.5	0.094	8	8.53	110	0.05	1.8	1.85	2.9	2.0	8.6	2.6
105J_1989_1532	0	0.016	0.95	48	43.5	0.104	6	9.07	110	0.05	2.4	2.34	3.7	2.0	9.3	4.7
105J_1989_1533	0	0.008	0.55	43	41.6	0.168	6	7.05	96	0.08	2.0	2.00	3.1	1.9	8.7	2.7
105J_1989_1534	0	0.006	0.66	129	139.8	1.645	9	8.92	65	0.24	9.0	10.16	12.0	1.8	7.4	17.2
105J_1989_1535	0	0.015	0.74	38	35.0	0.119	6	8.96	110	0.07	8.0	2.29	3.4	2.0	8.9	2.4
105J_1989_1536	0	0.014	0.30	36	78.2	0.119	9	8.20	62	1.07	2.2	2.47	2.7	2.3	7.1	5.5
105J_1989_1537	0	0.008	0.41	70	71.2	0.441	8	6.51	44	0.74	2.0	3.09	3.5	2.2	5.8	8.6
105J_1989_1538	0	0.007	0.30	49	44.7	0.212	8	8.90	100	0.09	3.0	3.22	5.5	2.4	7.6	3.1
105J_1989_1539	0	0.006	0.27	50	45.0	0.228	9	9.45	86	0.07	3.5	3.56	5.9	2.5	8.5	3.4
105J_1989_1540	0	0.007	0.34	60	52.8	0.221	13	14.58	91	0.09	6.0	4.47	7.5	3.8	10.0	5.3
105J_1989_1542	1	0.008	0.51	47	46.7	0.126	13	13.09	110	0.03	3.3	3.41	5.0	3.3	10.0	2.0
105J_1989_1544	2	0.008	0.59	47	44.3	0.122	13	12.49	100	0.03	2.9	3.39	4.9	3.1	11.0	2.2
105J_1989_1545	0	0.003	0.17	120	119.9	0.149	14	13.29	93	0.12	8.0	9.02	11.3	3.4	11.0	8.7
105J_1989_1546	0	0.007	0.32	104	103.2	0.127	12	12.72	97	0.11	7.5	6.92	10.0	3.0	10.0	5.2
105J_1989_1547	0	0.010	0.43	128	124.3	0.186	14	14.18	96	0.11	7.0	5.78	8.7	3.2	10.0	6.4
105J_1989_1548	0	0.007	0.32	326	322.2	0.295	13	12.58	80	0.15	9.0	9.66	11.6	2.5	8.9	8.3
105J_1989_1549	0	0.011	0.28	43	47.0	0.360	8	9.67	62	0.30	3.5	3.67	4.3	2.7	6.2	4.7
105J_1989_1550	0	0.029	0.66	78	72.6	0.108	10	12.24	98	0.20	1.5	1.67	2.8	2.8	9.1	9.6
105J_1989_1551	0	0.012	0.62	93	90.5	0.137	15	15.50	94	0.06	6.0	6.06	8.9	2.9	10.0	6.1

Unique ID	Rep Stat	Sm INAA	Sn AAS	Sr ICP-MS	Ta INAA	Tb INAA	Te ICP-MS	Th ICP-MS	Th INAA	Ti ICP-MS	Tl ICP-MS	U ICP-MS	U INAA	U NADNC	V AAS	V ICP-MS
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.5	0.5	0.5	0.02	0.1	0.2	0.001	0.02	0.1	0.2	0.5	5	2
105J_1989_1515	0	6.4	4	76.3	0.8	1.0	0.11	2.2	10.0	0.022	0.46	13.3	19.0	17.4	145	153
105J_1989_1516	0	4.8	3	32.6	0.7	0.6	0.05	2.8	8.9	0.009	0.24	1.4	4.2	4.1	45	40
105J_1989_1517	0	3.3	3	37.8	<0.5	<0.5	0.03	0.7	6.2	0.006	0.14	2.7	4.0	4.3	33	36
105J_1989_1518	0	4.8	2	22.7	0.8	0.6	0.04	1.6	7.8	0.005	0.27	1.1	3.8	3.3	41	37
105J_1989_1519	0	4.7	2	22.9	0.8	0.6	0.03	1.6	7.7	0.004	0.28	1.1	3.8	3.7	41	38
105J_1989_1520	0	6.7	5	113.7	1.0	1.0	0.15	2.5	8.9	0.014	0.58	10.5	16.0	14.2	183	246
105J_1989_1522	1	6.0	6	53.6	<0.5	0.8	0.23	3.1	11.0	0.025	0.46	11.8	13.0	13.8	83	82
105J_1989_1523	2	5.7	6	53.9	0.5	0.6	0.24	2.3	13.0	0.021	0.44	10.9	12.0	13.1	74	74
105J_1989_1524	0	6.3	6	66.0	0.7	1.0	0.11	3.4	9.0	0.056	0.54	11.5	16.0	14.9	150	154
105J_1989_1525	0	2.2	6	132.4	<0.5	<0.5	0.04	0.3	2.9	0.005	0.39	4.3	5.2	5.2	87	100
105J_1989_1526	0	6.4	6	51.1	0.7	1.0	0.14	1.4	8.2	0.031	0.55	12.3	19.0	16.6	134	136
105J_1989_1527	0	5.9	6	46.4	1.3	0.9	0.05	5.9	15.0	0.123	0.27	16.0	23.2	20.5	68	72
105J_1989_1528	0	1.7	4	95.2	<0.5	<0.5	0.08	1.6	2.7	0.008	0.46	11.2	10.0	10.5	195	227
105J_1989_1530	0	4.8	4	36.5	0.7	0.5	0.06	1.7	8.9	0.015	0.31	4.4	7.9	7.1	88	92
105J_1989_1531	0	5.7	3	34.1	0.9	0.6	0.04	3.4	11.0	0.019	0.21	4.6	9.2	7.9	39	50
105J_1989_1532	0	5.3	2	37.9	0.8	0.6	0.03	3.2	10.0	0.021	0.19	3.7	7.6	6.4	52	57
105J_1989_1533	0	5.0	4	50.6	0.8	0.5	0.04	2.4	7.1	0.007	0.23	4.7	8.5	7.5	50	62
105J_1989_1534	0	4.8	6	364.9	<0.5	0.8	0.09	2.0	5.0	0.016	2.69	11.4	15.0	14.5	571	567
105J_1989_1535	0	4.5	4	43.5	0.8	0.6	0.05	2.0	8.1	0.014	0.25	3.9	7.4	6.0	51	58
105J_1989_1536	0	1.8	6	68.6	0.6	<0.5	0.02	1.5	4.6	0.008	0.22	14.8	17.0	19.2	52	58
105J_1989_1537	0	2.1	6	115.1	<0.5	<0.5	0.05	2.0	4.4	0.007	0.23	16.2	17.0	17.7	73	79
105J_1989_1538	0	5.2	3	78.3	0.9	0.8	0.05	2.4	7.6	0.007	0.26	5.2	11.0	8.7	99	121
105J_1989_1539	0	5.2	4	85.3	0.7	0.8	0.07	2.7	7.5	0.007	0.23	4.9	10.0	8.6	106	113
105J_1989_1540	0	5.5	3	74.0	1.0	0.8	0.10	3.3	8.4	0.006	0.30	4.9	10.0	8.8	116	123
105J_1989_1542	1	5.0	2	52.3	0.8	0.7	0.05	2.7	9.3	0.017	0.27	5.3	10.0	8.2	78	83
105J_1989_1544	2	5.2	3	50.0	1.1	0.6	0.09	2.9	10.0	0.017	0.27	4.6	8.7	7.3	81	82
105J_1989_1545	0	5.6	2	86.5	0.9	1.0	0.12	1.4	7.4	0.004	0.51	11.0	17.0	16.5	164	188
105J_1989_1546	0	5.1	4	82.8	0.7	0.7	0.10	1.8	7.4	0.008	0.38	7.1	12.0	11.3	154	198
105J_1989_1547	0	5.4	3	70.1	0.6	0.8	0.07	2.1	8.1	0.010	0.45	9.7	14.0	14.2	143	174
105J_1989_1548	0	4.8	3	129.5	0.6	0.7	0.13	0.8	6.2	0.007	0.70	12.9	18.0	18.6	277	290
105J_1989_1549	0	3.6	2	51.2	0.5	<0.5	0.04	3.4	6.1	0.009	0.23	6.0	7.7	7.7	73	68
105J_1989_1550	0	5.0	3	58.8	0.8	0.6	0.03	1.7	8.9	0.006	0.36	4.2	7.6	7.5	56	57
105J_1989_1551	0	5.3	4	54.3	1.0	0.7	0.07	3.4	9.3	0.022	0.31	7.1	12.0	10.5	106	111

Unique ID	Rep Stat	W ICP-MS ppm 0.1	W INAA ppm 1	wt INAA g 0.01	Yb INAA ppm 2	Zn AAS ppm 2	Zn ICP-MS ppm 0.1
105J_1989_1515	0	1.4	3	26.56	<2	1530	1584.6
105J_1989_1516	0	0.3	1	26.24	2	133	133.2
105J_1989_1517	0	0.3	1	16.86	<2	170	172.4
105J_1989_1518	0	0.2	1	40.94	<2	152	162.5
105J_1989_1519	0	0.3	1	41.66	<2	143	169.5
105J_1989_1520	0	0.2	2	43.31	4	890	885.1
105J_1989_1522	1	2.8	6	29.54	3	2010	2246.9
105J_1989_1523	2	2.2	4	15.09	3	2170	2410.7
105J_1989_1524	0	1.2	3	36.55	4	1220	1166.3
105J_1989_1525	0	<0.1	<1	12.33	<2	1810	1777.8
105J_1989_1526	0	1.2	2	20.01	3	880	787.7
105J_1989_1527	0	2.5	5	29.08	2	1032	1055.2
105J_1989_1528	0	0.4	1	12.24	<2	133	1247.5
105J_1989_1530	0	0.4	<1	15.41	2	373	384.5
105J_1989_1531	0	1.0	3	37.11	3	312	335.4
105J_1989_1532	0	1.1	3	35.18	2	412	436.1
105J_1989_1533	0	0.5	2	28.88	2	235	236.9
105J_1989_1534	0	0.3	1	41.32	4	184	1952.7
105J_1989_1535	0	0.9	2	30.80	<2	209	219.8
105J_1989_1536	0	0.1	<1	13.42	<2	217	403.6
105J_1989_1537	0	0.1	<1	24.01	<2	921	855.2
105J_1989_1538	0	0.1	<1	28.82	<2	258	277.3
105J_1989_1539	0	0.1	2	30.83	2	272	278.9
105J_1989_1540	0	0.1	2	29.58	3	360	377.8
105J_1989_1542	1	0.2	<1	19.15	3	256	260.2
105J_1989_1544	2	0.3	2	38.41	3	242	245.0
105J_1989_1545	0	<0.1	1	40.44	3	950	860.6
105J_1989_1546	0	0.1	2	17.23	3	1055	1059.0
105J_1989_1547	0	0.3	<1	27.88	3	990	962.5
105J_1989_1548	0	0.1	<1	20.88	2	2940	3063.1
105J_1989_1549	0	0.5	1	19.67	<2	412	408.0
105J_1989_1550	0	1.0	1	10.45	<2	248	260.2
105J_1989_1551	0	0.3	2	36.32	2	823	761.6

Unique ID	Rep Stat	Ag AAS	Ag ICP-MS	Al ICP-MS	As HY-AAS	As ICP-MS	As INAA	Au INAA	Au1 INAA	Au1_wt -	B ICP-MS	Ba ICP-MS	Ba INAA	Bi ICP-MS	Br INAA	Ca ICP-MS
		ppm	ppb	%	ppm	ppm	ppm	ppb	ppb	g	ppm	ppm	ppm	ppm	ppm	%
		0.2	2	0.01	1	0.1	0.5	2	2	0.01	1	0.5	50	0.02	0.5	0.01
105J_1989_1552	0	0.4	455	1.88	65	84.3	107.0	6			2	229.3	1300	1.19	5.6	0.73
105J_1989_1553	0	0.5	982	3.22	140	204.9	212.0	<2			4	512.1	1100	2.44	17.0	0.70
105J_1989_1554	0	1.4	1109	1.29	32	39.7	52.2	10			3	589.0	5260	0.32	2.8	0.60
105J_1989_1555	0	0.6	902	2.40	115	165.0	179.0	12			3	444.5	3800	3.41	10.0	0.34
105J_1989_1556	0	1.1	1048	2.75	36	48.5	50.0	6			3	534.7	2700	1.49	9.4	0.89
105J_1989_1557	0	0.4	457	2.78	90	123.6	139.0	<2			1	427.1	2700	0.87	6.1	0.43
105J_1989_1558	0	<0.2	298	1.42	17	29.8	37.0	<2			2	1872.7	16800	0.26	5.6	0.18
105J_1989_1559	0	<0.2	235	2.91	28	34.5	44.0	8			1	324.0	2400	0.48	6.9	0.73
105J_1989_1560	0	<0.2	339	2.45	34	41.7	55.4	<2			1	349.5	3100	0.50	8.4	0.30
105J_1989_1562	1	<0.2	389	4.76	36	45.4	57.5	<2			1	168.5	1000	0.21	3.4	0.76
105J_1989_1563	2	<0.2	359	4.68	32	47.9	57.3	5			1	167.1	1100	0.20	3.8	0.77
105J_1989_1564	0	<0.2	306	1.96	60	76.3	87.9	10			<1	397.2	3900	1.48	7.3	0.08
105J_1989_1565	0	0.3	351	1.95	63	80.5	97.1	12			<1	399.9	3900	1.59	9.1	0.08
105J_1989_1566	0	0.3	932	3.00	110	136.4	144.0	4			5	398.1	1000	5.24	7.9	0.76
105J_1989_1567	0	<0.2	336	1.00	36	40.4	47.0	<2			2	258.5	1900	0.36	24.0	0.31
105J_1989_1568	0	<0.2	75	1.79	26	33.3	40.0	<2			1	154.7	790	3.98	1.6	0.79
105J_1989_1569	0	<0.2	204	2.97	50	60.0	67.8	9			1	423.1	1300	4.36	8.9	0.88
105J_1989_1570	0	<0.2	33	1.08	24	27.0	32.0	<2			2	68.6	750	0.44	1.1	0.33
105J_1989_1572	0	<0.2	166	1.80	55	64.6	79.2	<2			1	170.1	1100	1.57	4.9	0.48
105J_1989_1573	0	0.3	644	2.12	120	147.5	159.0	13			4	3472.4	7880	3.82	8.3	0.65
105J_1989_1574	0	0.7	1233	2.20	140	187.0	214.0	<2			1	703.9	35400	1.12	13.0	0.08
105J_1989_1575	0	<0.2	559	3.44	65	76.7	85.2	6			2	1699.8	11600	0.61	5.8	0.28
105J_1989_1576	0	<0.2	297	1.45	16	18.2	24.0	4			1	851.9	2600	1.37	2.1	0.56
105J_1989_1577	0	0.3	557	0.92	36	43.9	52.0	6			2	1392.6	7640	0.49	1.7	0.48
105J_1989_1578	0	0.3	430	0.83	45	58.6	71.5	4			3	663.0	2900	0.91	1.6	0.39
105J_1989_1579	0	<0.2	406	0.86	10	14.8	17.0	4			3	711.6	2800	0.29	3.8	0.50
105J_1989_1580	0	<0.2	414	1.15	3	5.8	7.0	11			3	454.0	2300	0.21	1.7	0.35
105J_1989_1582	1	0.3	754	1.08	10	13.9	16.0	8			6	1087.2	3500	0.23	6.3	0.49
105J_1989_1583	2	0.7	761	1.09	10	13.2	16.0	7			7	1212.0	3800	0.24	5.3	0.48
105J_1989_1584	0	0.5	402	0.92	16	19.5	27.0	5			3	1093.5	5740	0.21	3.7	0.41
105J_1989_1585	0	0.2	482	0.85	14	15.8	21.0	5			3	1021.8	4100	0.21	2.9	0.35
105J_1989_1586	0	<0.2	272	0.94	6	7.7	10.0	6			4	602.1	2700	0.14	3.3	0.30
105J_1989_1587	0	<0.2	382	0.88	7	10.1	14.0	6			6	1441.2	4200	0.21	2.7	0.40

Unique ID	Rep Stat	Cd AAS	Cd ICP-MS	Ce INAA	Co AAS	Co ICP-MS	Co INAA	Cr ICP-MS	Cr INAA	Cs INAA	Cu AAS	Cu ICP-MS	Eu INAA	F ISE	Fe AAS	Fe ICP-MS	Fe INAA
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	pct	%	pct
		0.2	0.01	5	2	0.1	5	0.5	20	0.5	2	0.01	1	20	0.02	0.01	0.2
105J_1989_1552	0	1.5	1.41	130	6	8.6	14	29.6	49	8.3	27	27.37	<1	308	2.82	2.68	4.5
105J_1989_1553	0	20.5	22.42	81	25	31.9	35	64.3	94	16.0	43	42.82	2	485	4.95	5.24	5.8
105J_1989_1554	0	12.4	11.69	63	11	11.6	16	34.1	92	7.0	92	88.40	<1	592	2.48	2.18	3.0
105J_1989_1555	0	3.6	3.20	84	15	19.5	22	38.9	67	15.0	89	92.31	<1	615	4.39	4.87	6.2
105J_1989_1556	0	8.5	8.03	68	12	14.1	14	37.4	46	8.0	105	99.95	<1	726	2.32	2.13	2.5
105J_1989_1557	0	3.2	3.10	75	28	40.3	52	25.6	76	12.0	115	113.86	1	460	3.90	4.35	5.8
105J_1989_1558	0	3.9	3.60	64	22	25.2	29	22.4	76	7.9	39	35.36	<1	270	5.92	5.55	6.8
105J_1989_1559	0	1.9	1.85	95	35	41.3	57	28.8	76	10.0	105	97.96	1	372	3.72	3.63	4.7
105J_1989_1560	0	2.0	1.92	89	27	33.6	43	19.1	58	10.0	84	80.53	<1	271	3.73	3.65	4.7
105J_1989_1562	1	0.2	0.48	79	21	26.2	33	32.0	68	8.8	110	112.63	<1	316	4.89	5.53	6.5
105J_1989_1563	2	0.2	0.52	97	22	27.6	37	32.3	70	8.6	118	118.63	1	338	4.30	5.26	7.3
105J_1989_1564	0	<0.2	0.28	69	6	4.0	8	31.1	78	8.5	56	55.07	<1	279	3.73	4.03	5.3
105J_1989_1565	0	<0.2	0.23	74	5	4.2	<5	31.0	76	9.1	60	56.02	<1	319	3.93	4.44	5.6
105J_1989_1566	0	12.8	12.34	150	39	52.4	57	31.5	54	16.0	28	52.09	<1	558	4.15	4.74	4.8
105J_1989_1567	0	0.8	0.67	42	11	10.6	16	10.6	32	4.4	32	30.02	<1	256	1.67	1.38	2.7
105J_1989_1568	0	<0.2	0.13	130	7	7.8	11	21.7	33	13.0	19	18.88	<1	354	2.22	1.82	2.9
105J_1989_1569	0	1.4	1.54	89	21	23.1	43	22.3	52	15.0	35	33.32	2	332	2.73	2.58	3.9
105J_1989_1570	0	<0.2	0.15	110	4	4.1	<5	10.6	26	10.0	10	9.56	<1	252	1.48	1.28	1.7
105J_1989_1572	0	3.1	2.92	120	20	21.7	28	18.0	40	15.0	51	51.00	<1	362	3.18	3.01	3.6
105J_1989_1573	0	5.3	4.96	69	31	32.3	40	36.4	110	13.0	84	76.66	1	558	3.17	3.26	4.3
105J_1989_1574	0	0.8	0.75	38	8	8.3	10	29.5	84	11.0	110	120.41	<1	321	7.27	10.51	13.0
105J_1989_1575	0	9.2	9.53	160	80	109.9	130	21.7	77	8.9	179	189.77	2	458	3.92	4.82	6.2
105J_1989_1576	0	4.9	4.20	110	22	19.5	28	20.1	50	8.0	30	26.87	<1	399	2.68	2.10	3.4
105J_1989_1577	0	6.3	5.68	70	7	7.7	10	20.6	86	5.6	68	65.56	<1	437	1.90	1.68	2.5
105J_1989_1578	0	1.4	1.23	64	9	7.1	10	13.2	52	6.6	32	30.46	<1	393	2.18	1.81	2.7
105J_1989_1579	0	1.8	1.92	79	16	19.3	22	13.8	72	7.5	41	43.08	<1	398	3.05	2.86	3.7
105J_1989_1580	0	1.1	1.15	78	8	9.1	11	18.0	63	4.9	76	73.78	<1	531	2.89	2.53	3.3
105J_1989_1582	1	4.2	4.00	58	10	9.9	11	16.5	70	7.5	47	45.39	<1	366	2.58	2.19	2.7
105J_1989_1583	2	3.9	3.78	45	9	10.3	10	16.6	84	7.9	47	46.85	<1	316	2.81	2.51	2.8
105J_1989_1584	0	4.1	3.92	68	15	16.0	20	16.5	76	6.8	49	50.23	<1	532	2.73	2.65	3.4
105J_1989_1585	0	4.0	3.39	59	14	13.4	18	13.6	75	5.9	37	35.93	<1	418	2.67	2.36	3.3
105J_1989_1586	0	1.4	1.42	60	12	12.0	15	14.9	68	4.3	40	40.70	<1	489	2.46	2.37	3.2
105J_1989_1587	0	1.0	1.05	71	14	12.4	17	14.4	77	8.0	47	43.95	1	422	3.57	3.34	4.6

Unique ID	Rep Stat	Ga ICP-MS ppm 0.2	Hf INAA ppm 1	Hg CV-AAS ppb 10	Hg ICP-MS ppb 5	K ICP-MS % 0.01	La ICP-MS ppm 0.5	La INAA ppm 2	LOI GRAV pct 1.0	Lu INAA ppm 0.2	Mg ICP-MS % 0.01	Mn AAS ppm 5	Mn ICP-MS ppm 1	Mo AAS ppm 2	Mo ICP-MS ppm 0.01	Mo INAA ppm 1
105J_1989_1552	0	6.2	11	25	17	0.29	35.0	64	3.6	<0.2	0.66	401	445	2	2.24	1
105J_1989_1553	0	11.8	3	63	58	0.92	36.7	41	11.7	<0.2	1.51	1692	2829	11	11.88	9
105J_1989_1554	0	3.9	3	211	198	0.16	12.3	35	11.4	<0.2	0.58	290	295	9	8.29	9
105J_1989_1555	0	8.6	4	42	39	0.46	24.5	40	9.4	<0.2	0.85	409	544	10	9.37	9
105J_1989_1556	0	8.3	2	74	67	0.20	22.0	31	22.3	<0.2	0.94	239	250	5	3.92	4
105J_1989_1557	0	5.4	4	39	29	0.13	17.7	39	11.2	<0.2	0.49	202	300	6	6.08	5
105J_1989_1558	0	3.2	3	63	60	0.07	16.1	30	13.5	<0.2	0.41	545	622	4	3.64	3
105J_1989_1559	0	5.6	6	25	27	0.23	21.5	46	7.8	0.4	0.77	1206	1503	5	3.77	3
105J_1989_1560	0	4.8	6	23	22	0.12	26.0	40	7.7	<0.2	0.49	673	841	4	2.97	2
105J_1989_1562	1	7.0	4	14	15	0.35	12.3	34	9.1	<0.2	0.85	863	1271	7	10.52	11
105J_1989_1563	2	6.8	5	18	13	0.34	13.2	39	9.5	0.3	0.89	917	1319	10	9.69	9
105J_1989_1564	0	5.3	4	32	24	0.14	19.8	35	8.0	0.2	0.52	140	171	4	3.00	2
105J_1989_1565	0	5.1	4	32	29	0.14	19.6	36	7.9	<0.2	0.54	123	177	4	2.94	3
105J_1989_1566	0	10.5	3	42	37	0.70	47.1	60	7.0	<0.2	1.31	2520	3066	6	4.76	4
105J_1989_1567	0	2.8	3	35	29	0.05	9.8	23	20.2	<0.2	0.18	201	152	<2	2.41	3
105J_1989_1568	0	5.7	7	12	5	0.29	39.2	59	3.2	<0.2	0.63	189	214	<2	0.26	<1
105J_1989_1569	0	7.7	4	35	18	0.16	36.8	49	10.4	<0.2	0.60	156	207	2	1.38	<1
105J_1989_1570	0	4.1	8	14	8	0.18	20.7	56	3.1	<0.2	0.33	154	177	<2	0.45	<1
105J_1989_1572	0	6.7	5	25	21	0.31	27.3	52	5.8	<0.2	0.55	491	545	4	2.91	2
105J_1989_1573	0	5.5	5	115	110	0.22	26.5	37	8.7	<0.2	0.83	284	358	8	8.00	7
105J_1989_1574	0	3.9	3	72	66	0.09	15.2	37	9.5	<0.2	0.43	162	298	11	11.52	9
105J_1989_1575	0	3.4	5	72	62	0.10	57.1	80	10.4	0.6	0.44	1476	2224	7	6.56	4
105J_1989_1576	0	4.2	7	40	43	0.23	28.4	50	3.2	<0.2	0.46	545	536	5	3.80	4
105J_1989_1577	0	2.8	4	187	158	0.10	17.3	37	4.5	<0.2	0.29	218	235	7	6.95	7
105J_1989_1578	0	2.6	4	191	175	0.09	11.4	31	8.8	<0.2	0.24	313	299	2	2.27	3
105J_1989_1579	0	2.5	4	248	241	0.09	7.5	35	10.9	0.2	0.25	1098	1149	2	2.77	3
105J_1989_1580	0	3.2	3	313	304	0.13	12.1	34	11.8	<0.2	0.46	254	255	<2	0.97	<1
105J_1989_1582	1	2.9	3	500	527	0.14	9.4	24	16.9	<0.2	0.22	373	348	5	5.04	5
105J_1989_1583	2	2.9	3	508	559	0.13	9.5	24	15.3	<0.2	0.22	517	521	5	4.71	3
105J_1989_1584	0	2.4	4	216	208	0.11	13.5	34	6.5	<0.2	0.30	1566	1863	5	5.15	6
105J_1989_1585	0	2.4	4	209	183	0.09	10.4	31	7.3	<0.2	0.23	1872	1987	6	5.57	6
105J_1989_1586	0	2.8	4	238	235	0.10	9.7	32	7.6	<0.2	0.35	1512	1566	2	2.37	2
105J_1989_1587	0	2.3	4	266	262	0.11	6.0	34	12.0	<0.2	0.26	1584	1694	2	2.69	2

Unique ID	Rep Stat	Na ICP-MS % 0.001	Na INAA pct 0.02	Ni AAS ppm 2	Ni ICP-MS ppm 0.1	P ICP-MS % 0.001	Pb AAS ppm 2	Pb ICP-MS ppm 0.01	Rb INAA ppm 5	S ICP-MS % 0.01	Sb HY-AAS ppm 0.2	Sb ICP-MS ppm 0.02	Sb INAA ppm 0.1	Sc ICP-MS ppm 0.1	Sc INAA ppm 0.2	Se ICP-MS ppm 0.1
105J_1989_1552	0	0.116	1.90	12	11.9	0.090	66	82.49	120	0.05	8.0	8.14	12.3	3.1	16.0	1.8
105J_1989_1553	0	0.114	1.20	93	98.9	0.089	132	147.36	160	0.08	7.0	5.01	8.6	7.7	14.0	4.8
105J_1989_1554	0	0.015	0.60	206	193.0	0.177	23	21.16	90	0.46	16.0	17.96	24.8	2.8	10.0	9.8
105J_1989_1555	0	0.033	1.00	79	82.7	0.128	130	180.04	150	0.10	20.0	14.57	28.6	3.9	11.0	3.6
105J_1989_1556	0	0.039	0.45	158	159.4	0.146	95	95.90	67	0.49	3.7	4.29	5.4	4.3	8.8	6.6
105J_1989_1557	0	0.016	0.55	112	115.5	0.135	15	22.15	93	0.12	6.0	4.92	7.1	2.6	13.0	2.8
105J_1989_1558	0	0.008	0.45	80	77.1	0.107	15	14.23	96	0.13	4.0	3.76	5.9	1.9	11.0	6.3
105J_1989_1559	0	0.094	0.81	137	135.2	0.117	17	17.70	110	0.09	2.0	1.79	3.0	3.5	12.0	1.6
105J_1989_1560	0	0.017	0.75	68	65.5	0.078	25	27.31	110	0.06	2.5	1.95	3.1	2.4	11.0	2.4
105J_1989_1562	1	0.102	0.68	47	52.1	0.153	17	20.77	81	0.54	3.3	3.05	4.7	3.7	11.0	1.5
105J_1989_1563	2	0.106	0.80	50	53.3	0.147	17	19.80	95	0.48	3.6	2.37	4.7	3.8	12.0	1.3
105J_1989_1564	0	0.008	0.54	27	28.9	0.074	16	19.24	74	0.05	5.0	3.93	5.8	2.7	11.0	3.1
105J_1989_1565	0	0.008	0.52	27	28.3	0.078	19	19.89	75	0.05	5.5	3.93	6.5	2.7	12.0	3.4
105J_1989_1566	0	0.120	1.20	100	97.8	0.118	173	198.30	150	0.07	3.8	2.25	3.7	6.5	11.0	1.6
105J_1989_1567	0	0.027	1.60	31	27.5	0.120	8	8.19	56	0.11	1.8	1.71	2.6	0.6	6.6	4.9
105J_1989_1568	0	0.078	1.70	6	6.0	0.061	10	12.22	160	<0.01	0.4	0.22	0.7	3.1	11.0	0.2
105J_1989_1569	0	0.067	1.10	57	58.4	0.080	20	21.68	110	0.05	1.2	0.41	1.1	3.4	11.0	1.4
105J_1989_1570	0	0.026	1.80	7	6.4	0.048	6	6.19	150	<0.01	0.7	0.53	1.3	2.8	6.3	0.2
105J_1989_1572	0	0.041	1.50	61	59.3	0.092	15	17.83	150	0.03	3.3	2.00	4.0	4.7	9.4	2.4
105J_1989_1573	0	0.033	0.76	142	145.2	0.173	31	36.30	130	0.11	4.3	2.71	5.1	4.0	14.0	4.2
105J_1989_1574	0	0.006	0.32	27	31.7	0.156	46	66.62	86	0.49	60.0	45.53	85.5	3.6	14.0	9.3
105J_1989_1575	0	0.015	0.61	180	194.2	0.129	27	34.00	96	0.25	20.0	13.89	26.7	3.6	13.0	3.9
105J_1989_1576	0	0.075	2.08	46	42.4	0.078	30	31.40	140	0.04	2.1	1.70	3.0	2.3	12.0	2.2
105J_1989_1577	0	0.029	0.90	59	56.8	0.160	11	12.74	100	0.05	5.0	5.43	9.0	2.2	8.9	5.6
105J_1989_1578	0	0.010	0.74	24	21.7	0.095	20	22.94	100	0.03	6.5	4.53	8.9	2.1	8.7	1.5
105J_1989_1579	0	0.010	0.72	33	34.2	0.098	16	17.71	95	0.05	1.9	1.65	3.0	3.2	11.0	1.9
105J_1989_1580	0	0.011	0.61	39	36.5	0.128	13	13.26	86	0.08	1.0	0.86	1.9	3.9	11.0	2.4
105J_1989_1582	1	0.014	0.53	74	69.8	0.132	11	11.14	90	0.31	2.5	2.22	3.6	2.9	8.2	6.3
105J_1989_1583	2	0.013	0.51	71	69.7	0.140	10	11.44	86	0.22	2.6	2.09	3.7	3.0	7.5	6.1
105J_1989_1584	0	0.010	0.53	69	69.9	0.151	9	10.41	110	0.05	2.8	2.28	4.5	2.5	8.6	2.9
105J_1989_1585	0	0.010	0.68	69	61.7	0.126	11	9.07	98	0.04	2.2	1.57	3.4	2.0	8.5	3.5
105J_1989_1586	0	0.008	0.59	43	42.7	0.122	8	8.86	87	0.05	1.0	0.72	1.6	2.5	9.2	1.6
105J_1989_1587	0	0.011	0.61	41	39.1	0.105	14	13.40	95	0.11	1.3	0.70	2.1	3.8	12.0	2.5

Unique ID	Rep Stat	Sm INAA	Sn AAS	Sr ICP-MS	Ta INAA	Tb INAA	Te ICP-MS	Th ICP-MS	Th INAA	Ti ICP-MS	Tl ICP-MS	U ICP-MS	U INAA	U NADNC	V AAS	V ICP-MS
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.5	0.5	0.5	0.02	0.1	0.2	0.001	0.02	0.1	0.2	0.5	5	2
105J_1989_1552	0	7.8	4	53.8	1.3	1.0	0.06	13.9	21.5	0.151	0.28	8.3	12.0	10.3	56	48
105J_1989_1553	0	5.3	4	47.9	1.3	0.7	0.04	16.0	20.0	0.421	1.15	26.4	26.9	28.9	109	110
105J_1989_1554	0	5.3	4	72.7	0.9	0.8	0.10	3.7	7.9	0.038	0.42	8.8	13.0	12.5	129	148
105J_1989_1555	0	5.7	9	41.2	1.5	0.9	0.09	11.3	14.0	0.180	0.53	12.1	14.0	14.0	99	101
105J_1989_1556	0	4.7	5	79.4	1.2	0.6	0.03	4.6	12.0	0.130	0.37	11.1	13.0	13.9	94	83
105J_1989_1557	0	6.0	8	37.2	1.0	1.0	0.07	4.8	10.0	0.037	0.34	4.8	7.6	7.3	66	63
105J_1989_1558	0	4.7	2	39.4	0.7	0.6	0.05	4.0	8.4	0.005	0.18	2.1	4.6	4.4	40	34
105J_1989_1559	0	8.0	4	57.6	1.1	1.1	0.03	5.7	11.0	0.047	0.34	2.6	5.9	5.4	45	39
105J_1989_1560	0	6.4	3	47.0	1.0	0.8	0.04	8.4	14.0	0.041	0.22	4.9	8.7	7.6	37	30
105J_1989_1562	1	6.8	5	90.5	0.8	1.0	0.03	6.3	9.4	0.056	0.49	2.6	5.2	4.8	47	41
105J_1989_1563	2	7.4	7	89.6	0.9	0.9	0.04	6.2	10.0	0.056	0.49	2.7	5.5	4.8	52	41
105J_1989_1564	0	5.3	3	11.0	0.9	0.7	0.06	3.3	8.9	0.041	0.22	1.8	4.4	4.1	51	42
105J_1989_1565	0	5.3	3	10.9	0.7	0.6	0.06	3.6	8.5	0.041	0.22	1.8	4.6	4.2	53	43
105J_1989_1566	0	7.9	6	53.0	1.8	0.8	0.04	18.1	20.8	0.216	1.25	23.1	24.2	24.5	69	65
105J_1989_1567	0	3.7	5	33.6	<0.5	0.6	<0.02	0.3	5.8	0.018	0.08	1.3	3.3	3.3	18	17
105J_1989_1568	0	6.6	5	89.3	1.3	0.7	0.03	15.9	23.5	0.135	0.33	5.5	8.3	7.5	34	27
105J_1989_1569	0	5.9	5	147.1	1.1	0.7	0.03	7.4	16.0	0.064	0.31	27.2	30.7	27.7	45	39
105J_1989_1570	0	7.2	3	22.1	1.0	0.8	<0.02	7.0	20.8	0.072	0.22	2.7	6.5	6.2	23	20
105J_1989_1572	0	8.9	4	32.4	1.2	1.1	0.02	8.6	20.8	0.113	0.37	6.4	11.0	9.2	34	28
105J_1989_1573	0	6.3	4	58.9	1.0	1.0	0.10	6.6	12.0	0.074	0.41	5.9	8.8	8.3	107	113
105J_1989_1574	0	5.9	7	29.6	0.6	0.8	0.17	8.0	9.1	0.012	0.30	4.5	5.6	6.0	91	100
105J_1989_1575	0	13.3	5	33.7	0.8	1.9	0.08	6.0	8.3	0.010	0.30	4.9	6.7	7.0	52	49
105J_1989_1576	0	6.3	5	48.9	1.1	0.8	0.02	12.5	17.0	0.109	0.27	4.6	8.0	6.7	54	47
105J_1989_1577	0	5.2	4	64.3	0.7	0.8	0.08	4.6	10.0	0.033	0.23	5.0	8.6	8.1	111	113
105J_1989_1578	0	4.4	2	44.4	0.8	0.5	0.03	3.0	9.0	0.010	0.20	2.2	5.2	4.8	51	46
105J_1989_1579	0	4.9	2	56.5	0.9	0.6	0.05	2.2	10.0	0.006	0.22	1.7	4.6	4.2	42	41
105J_1989_1580	0	5.0	3	54.2	1.0	0.6	0.04	3.9	9.2	0.007	0.20	2.0	5.5	5.5	50	49
105J_1989_1582	1	3.9	2	50.7	0.8	<0.5	0.04	1.5	7.5	0.010	0.61	2.9	5.3	5.8	64	65
105J_1989_1583	2	4.0	4	52.9	0.6	0.6	0.04	1.7	7.8	0.010	0.62	3.2	6.0	5.9	64	65
105J_1989_1584	0	5.7	4	61.6	0.9	0.7	0.05	2.9	9.0	0.009	0.25	4.3	8.8	7.2	66	64
105J_1989_1585	0	4.7	1	48.7	0.7	0.7	0.06	2.3	8.3	0.013	0.28	2.8	6.3	5.5	80	67
105J_1989_1586	0	4.9	4	46.5	0.9	0.6	0.03	2.2	7.9	0.006	0.18	1.8	5.2	4.8	52	45
105J_1989_1587	0	5.5	4	54.0	1.2	0.8	0.05	3.3	9.2	0.002	0.17	1.6	4.5	4.4	48	41

Unique ID	Rep Stat	W ICP-MS ppm 0.1	W INAA ppm 1	wt INAA g 0.01	Yb INAA ppm 2	Zn AAS ppm 2	Zn ICP-MS ppm 0.1
105J_1989_1552	0	8.0	9	45.86	4	124	122.6
105J_1989_1553	0	3.0	4	15.33	3	1013	947.5
105J_1989_1554	0	0.4	<1	32.35	3	1510	1380.4
105J_1989_1555	0	2.5	5	16.01	4	577	556.9
105J_1989_1556	0	0.8	1	19.23	<2	803	707.2
105J_1989_1557	0	0.5	2	33.03	3	517	530.7
105J_1989_1558	0	0.1	2	23.79	2	339	337.0
105J_1989_1559	0	0.3	1	30.81	3	424	413.2
105J_1989_1560	0	0.6	2	40.63	2	359	380.8
105J_1989_1562	1	0.1	<1	18.01	3	158	161.6
105J_1989_1563	2	<0.1	1	31.07	4	182	173.6
105J_1989_1564	0	0.2	1	32.68	2	104	97.4
105J_1989_1565	0	0.1	<1	33.87	3	106	94.4
105J_1989_1566	0	3.2	5	11.53	2	287	271.8
105J_1989_1567	0	0.3	<1	23.97	<2	58	49.7
105J_1989_1568	0	2.6	4	39.08	3	37	35.6
105J_1989_1569	0	0.9	2	33.56	<2	255	237.9
105J_1989_1570	0	3.7	5	39.05	<2	42	38.8
105J_1989_1572	0	7.1	11	25.05	3	334	335.1
105J_1989_1573	0	1.0	3	28.93	3	748	709.3
105J_1989_1574	0	0.2	<1	30.73	4	247	248.4
105J_1989_1575	0	0.2	<1	37.07	5	1380	1477.2
105J_1989_1576	0	2.8	4	37.63	3	342	327.6
105J_1989_1577	0	1.2	2	34.96	3	509	495.9
105J_1989_1578	0	4.3	4	32.80	2	133	123.0
105J_1989_1579	0	0.4	1	29.27	<2	166	170.7
105J_1989_1580	0	<0.1	<1	27.52	2	153	145.7
105J_1989_1582	1	0.3	1	22.43	<2	408	446.5
105J_1989_1583	2	0.3	2	16.33	<2	413	426.4
105J_1989_1584	0	0.4	<1	40.69	2	393	425.1
105J_1989_1585	0	0.3	1	39.61	2	412	430.8
105J_1989_1586	0	<0.1	<1	30.91	2	197	179.1
105J_1989_1587	0	<0.1	<1	24.67	3	163	150.4

Unique ID	Rep Stat	Ag AAS	Ag ICP-MS	Al ICP-MS	As HY-AAS	As ICP-MS	As INAA	Au INAA	Au1 INAA	Au1_wt -	B ICP-MS	Ba ICP-MS	Ba INAA	Bi ICP-MS	Br INAA	Ca ICP-MS
		ppm	ppb	%	ppm	ppm	ppm	ppb	ppb	g	ppm	ppm	ppm	ppm	ppm	%
		0.2	2	0.01	1	0.1	0.5	2	2	0.01	1	0.5	50	0.02	0.5	0.01
105J_1989_1588	0	0.2	553	1.48	24	35.5	39.0	7			4	1370.6	4600	0.42	6.6	0.53
105J_1989_1589	0	<0.2	354	0.93	14	18.9	25.0	5			3	745.7	3400	0.23	1.9	0.37
105J_1989_1590	0	<0.2	509	1.30	16	20.8	25.0	4			4	702.6	2700	0.34	7.3	0.59
105J_1989_1591	0	0.4	473	1.05	13	16.8	22.0	7			3	1391.1	5040	0.29	4.1	0.36
105J_1989_1593	0	<0.2	331	1.05	14	20.3	25.0	4			3	1047.1	3600	0.26	3.7	0.38
105J_1989_1594	0	<0.2	545	1.70	70	90.8	92.8	<2			3	1018.1	2800	0.67	5.0	0.57
105J_1989_1595	0	0.5	290	0.82	34	32.4	49.0	13			2	717.3	5630	0.30	0.7	0.32
105J_1989_1596	0	0.2	491	0.60	9	8.4	14.0	2			8	182.3	1100	0.17	32.0	1.14
105J_1989_1597	0	<0.2	97	0.09	2	3.1	3.6	<2			31	109.5	120	0.03	18.0	1.95
105J_1989_1598	0	<0.2	330	0.89	15	17.4	20.0	6			6	1688.8	7850	0.20	1.3	0.94
105J_1989_1599	0	0.4	455	0.87	20	25.1	32.0	7			5	1243.7	6110	0.23	0.9	0.66
105J_1989_1600	0	0.2	489	0.98	10	11.6	15.0	10			5	641.1	3400	0.20	2.6	0.51
105J_1989_1602	1	0.3	436	1.29	5	8.9	11.0	10			4	1040.6	2600	0.21	4.1	0.56
105J_1989_1603	2	0.6	435	1.23	6	11.2	14.0	11			4	1055.6	2800	0.20	5.4	0.60
105J_1989_1604	0	0.2	512	0.86	15	24.2	31.0	10			3	1050.2	5990	0.24	2.5	0.57
105J_1989_1605	0	0.2	518	0.91	11	18.9	24.0	12			4	1184.6	5750	0.26	1.9	0.59
105J_1989_1606	0	0.2	529	0.89	16	23.7	31.0	5			3	1981.5	6040	0.23	6.8	0.79
105J_1989_1607	0	<0.2	156	0.67	6	14.2	16.0	<2			5	753.8	1500	0.11	20.0	1.71
105J_1989_1608	0	<0.2	173	1.14	3	5.0	6.3	4			6	264.3	1600	0.13	5.5	1.22
105J_1989_1610	0	<0.2	228	0.95	4	6.2	8.9	6			7	819.1	3300	0.11	6.9	0.98
105J_1989_1611	0	<0.2	172	0.84	5	7.4	9.2	3			3	405.8	1700	0.13	15.0	0.75
105J_1989_1612	0	<0.2	120	0.83	4	6.3	8.1	3			2	242.8	1700	0.16	3.1	0.57
105J_1989_1613	0	0.2	217	0.54	2	2.6	4.2	5			3	186.6	320	0.07	36.0	1.23
105J_1989_1614	0	0.2	203	0.88	4	7.2	9.4	4			3	354.0	1200	0.10	26.0	1.53
105J_1989_1615	0	<0.2	167	1.01	2	2.9	5.9	3			2	354.0	1900	0.17	3.3	0.34
105J_1989_1616	0	0.3	347	0.94	6	8.8	12.0	10			3	334.5	1900	0.12	7.2	0.58
105J_1989_1617	0	0.3	431	0.99	10	16.9	22.0	5			4	670.8	2700	0.17	19.0	0.71
105J_1989_1618	0	<0.2	210	0.74	4	5.9	8.4	6			3	414.6	2300	0.15	2.2	0.56
105J_1989_1619	0	1.4	1265	0.64	30	53.9	65.3	9			5	964.1	5370	0.16	12.0	0.73
105J_1989_1620	0	1.4	1342	0.60	30	53.4	66.1	9			5	1025.9	5520	0.17	13.0	0.73
105J_1989_1622	1	1.2	1479	0.64	20	33.0	40.0	8			5	808.0	4800	0.17	12.0	0.80
105J_1989_1623	2	1.6	1388	0.66	20	34.3	43.0	10			5	790.9	5110	0.17	10.0	0.68
105J_1989_1624	0	0.8	493	1.23	44	14.4	19.0	10			4	369.9	2500	0.20	4.0	0.54

Unique ID	Rep Stat	Cd AAS	Cd ICP-MS	Ce INAA	Co AAS	Co ICP-MS	Co INAA	Cr ICP-MS	Cr INAA	Cs INAA	Cu AAS	Cu ICP-MS	Eu INAA	F ISE	Fe AAS	Fe ICP-MS	Fe INAA
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	pct	%	pct
		0.2	0.01	5	2	0.1	5	0.5	20	0.5	2	0.01	1	20	0.02	0.01	0.2
105J_1989_1588	0	3.0	2.87	55	17	17.2	19	22.9	80	7.6	47	46.17	<1	433	4.74	4.80	5.8
105J_1989_1589	0	2.5	2.42	64	8	7.2	10	14.7	63	5.8	33	32.99	1	400	2.53	2.48	3.5
105J_1989_1590	0	4.3	4.37	71	6	7.9	10	18.0	71	6.8	23	23.46	<1	370	2.65	2.34	3.2
105J_1989_1591	0	2.0	2.08	88	7	7.5	10	16.6	68	5.6	29	29.68	<1	404	1.82	1.73	2.5
105J_1989_1593	0	1.5	1.58	74	6	6.3	11	16.0	67	6.0	24	24.97	<1	362	2.47	2.26	3.3
105J_1989_1594	0	3.4	3.47	62	11	14.0	14	23.4	47	6.4	36	38.24	<1	328	7.32	7.53	7.5
105J_1989_1595	0	2.1	1.99	100	15	13.6	18	12.3	43	6.3	35	31.67	<1	352	2.18	1.83	2.6
105J_1989_1596	0	21.6	18.97	30	7	5.8	7	11.1	35	3.9	52	43.69	<1	288	1.28	0.95	1.4
105J_1989_1597	0	1.3	1.34	<5	2	1.5	<5	3.1	<20	<0.5	22	21.81	<1	37	0.96	0.84	0.8
105J_1989_1598	0	3.1	2.84	99	6	6.9	6	19.3	110	5.0	57	53.96	<1	967	2.10	2.16	2.8
105J_1989_1599	0	3.5	3.08	70	8	8.2	10	19.4	81	5.3	66	60.64	<1	945	2.65	2.60	3.4
105J_1989_1600	0	2.5	2.47	53	10	10.3	15	18.5	88	5.4	76	73.86	1	650	2.45	2.34	3.1
105J_1989_1602	1	1.1	1.56	48	12	11.5	11	22.8	53	4.2	81	72.85	<1	544	4.41	3.95	4.3
105J_1989_1603	2	1.2	1.63	53	10	11.5	16	22.4	58	4.1	80	74.31	1	425	5.02	4.38	5.2
105J_1989_1604	0	3.5	4.08	69	8	9.8	14	17.0	85	4.8	63	65.69	1	840	2.76	2.76	3.7
105J_1989_1605	0	3.3	3.38	72	8	9.6	12	18.9	98	4.8	66	64.93	<1	802	2.16	2.26	3.0
105J_1989_1606	0	3.4	3.65	72	10	13.0	15	15.8	68	3.7	39	39.24	1	695	4.34	4.70	5.7
105J_1989_1607	0	1.5	2.18	29	8	11.3	13	8.0	<20	1.5	25	22.58	<1	247	8.71	8.14	9.2
105J_1989_1608	0	0.3	0.64	63	9	10.1	12	18.0	60	3.8	43	43.46	<1	580	2.32	2.13	3.0
105J_1989_1610	0	0.7	1.03	52	10	11.2	14	19.2	67	3.6	33	38.52	1	618	2.46	2.25	3.2
105J_1989_1611	0	0.9	1.05	50	7	6.7	9	13.2	48	2.7	29	28.08	1	471	2.41	2.06	2.5
105J_1989_1612	0	<0.2	0.66	79	7	7.7	9	11.3	43	3.3	24	22.73	<1	449	2.16	1.91	2.4
105J_1989_1613	0	2.5	2.46	15	2	2.1	<5	6.1	<20	0.6	122	111.72	<1	47	0.93	0.68	0.8
105J_1989_1614	0	2.1	2.41	38	4	5.2	10	8.5	22	2.2	35	33.58	<1	269	5.41	5.14	6.5
105J_1989_1615	0	0.6	0.96	98	10	10.1	16	14.2	74	4.7	32	31.80	1	365	2.40	2.21	3.6
105J_1989_1616	0	3.0	2.83	54	12	16.2	20	12.4	57	4.1	66	69.78	2	500	3.86	3.54	4.6
105J_1989_1617	0	4.5	4.43	66	12	13.4	16	15.0	62	3.7	45	46.46	1	558	3.31	3.30	4.3
105J_1989_1618	0	0.4	0.71	69	9	8.1	11	11.7	58	4.0	32	29.82	1	411	2.17	1.86	2.7
105J_1989_1619	0	8.4	9.98	60	11	13.3	16	17.8	100	6.0	103	103.93	<1	490	2.48	2.28	3.0
105J_1989_1620	0	10.9	10.82	38	13	13.5	19	17.6	110	6.1	104	107.69	1	502	2.40	2.30	3.0
105J_1989_1622	1	6.7	6.21	61	7	7.3	9	18.1	98	6.1	99	104.60	<1	476	1.80	1.56	2.1
105J_1989_1623	2	7.9	7.28	47	7	8.0	9	18.5	100	6.2	102	105.41	2	584	1.67	1.42	1.8
105J_1989_1624	0	2.5	2.74	71	9	11.5	13	23.0	67	4.3	61	59.77	1	578	3.00	2.82	3.3

Unique ID	Rep Stat	Ga ICP-MS ppm 0.2	Hf INAA ppm 1	Hg CV-AAS ppb 10	Hg ICP-MS ppb 5	K ICP-MS % 0.01	La ICP-MS ppm 0.5	La INAA ppm 2	LOI GRAV pct 1.0	Lu INAA ppm 0.2	Mg ICP-MS % 0.01	Mn AAS ppm 5	Mn ICP-MS ppm 1	Mo AAS ppm 2	Mo ICP-MS ppm 0.01	Mo INAA ppm 1
105J_1989_1588	0	4.3	2	236	239	0.18	16.6	32	11.9	<0.2	0.46	4455	4169	9	9.99	9
105J_1989_1589	0	2.7	4	187	170	0.11	13.1	34	6.2	<0.2	0.28	345	328	4	3.52	4
105J_1989_1590	0	3.5	5	187	196	0.14	14.5	32	12.9	<0.2	0.34	1008	1005	6	8.11	7
105J_1989_1591	0	3.1	7	191	193	0.13	16.2	44	6.3	0.3	0.28	721	767	4	4.29	5
105J_1989_1593	0	3.0	5	137	145	0.11	13.5	35	6.8	<0.2	0.29	437	453	5	5.24	6
105J_1989_1594	0	4.7	2	209	258	0.17	22.9	30	16.5	<0.2	0.45	1116	1287	21	24.48	20
105J_1989_1595	0	2.3	7	101	86	0.12	17.9	46	2.2	0.2	0.28	427	411	2	2.42	3
105J_1989_1596	0	1.7	1	194	190	0.13	4.8	15	56.1	<0.2	0.35	662	493	2	1.91	2
105J_1989_1597	0	0.2	<1	86	88	0.05	1.0	<2	88.1	<0.2	0.43	176	147	8	8.86	10
105J_1989_1598	0	2.6	3	180	170	0.17	18.6	48	3.8	<0.2	0.38	265	319	6	5.25	6
105J_1989_1599	0	2.5	3	202	189	0.15	16.3	38	5.0	<0.2	0.37	245	283	6	4.99	5
105J_1989_1600	0	2.9	3	292	283	0.16	11.1	29	7.6	0.3	0.40	707	785	5	4.53	4
105J_1989_1602	1	3.5	3	297	335	0.13	11.5	28	16.2	<0.2	0.57	814	854	3	2.72	2
105J_1989_1603	2	3.5	3	281	351	0.12	10.4	30	17.8	<0.2	0.55	1135	1183	3	2.83	3
105J_1989_1604	0	2.6	4	228	256	0.12	13.5	39	5.8	<0.2	0.38	348	457	5	4.99	6
105J_1989_1605	0	2.8	3	221	266	0.14	15.3	38	5.3	<0.2	0.38	281	378	5	4.89	5
105J_1989_1606	0	2.6	4	219	242	0.12	11.4	35	13.3	<0.2	0.35	>20000	>10000	16	15.93	18
105J_1989_1607	0	1.6	2	148	161	0.06	5.9	15	40.7	<0.2	0.34	12400	9151	<2	1.80	1
105J_1989_1608	0	3.8	4	116	128	0.12	13.3	32	18.5	<0.2	0.69	829	834	<2	1.37	2
105J_1989_1610	0	3.1	2	177	195	0.11	10.6	29	15.6	<0.2	0.60	2300	1864	<2	0.88	<1
105J_1989_1611	0	2.3	3	119	120	0.09	9.1	26	20.4	<0.2	0.37	630	602	<2	1.50	1
105J_1989_1612	0	2.5	5	88	77	0.07	9.9	40	11.9	<0.2	0.27	280	308	<2	0.41	<1
105J_1989_1613	0	0.8	<1	143	168	0.02	3.8	5	86.6	<0.2	0.09	439	417	3	1.98	3
105J_1989_1614	0	1.8	2	160	184	0.05	6.5	19	38.7	<0.2	0.17	1018	1065	<2	0.63	2
105J_1989_1615	0	2.9	5	95	107	0.09	9.6	46	9.6	<0.2	0.36	225	259	<2	0.43	<1
105J_1989_1616	0	2.2	3	214	242	0.07	11.4	29	18.9	<0.2	0.43	869	983	<2	2.35	3
105J_1989_1617	0	2.7	4	141	210	0.11	11.7	36	14.7	<0.2	0.47	7075	5726	5	4.49	4
105J_1989_1618	0	2.1	5	122	116	0.08	10.5	35	11.4	<0.2	0.33	398	406	<2	1.02	2
105J_1989_1619	0	2.0	3	507	658	0.09	16.7	30	15.4	<0.2	0.27	2050	1755	14	14.72	17
105J_1989_1620	0	1.9	2	530	668	0.10	16.5	31	14.8	<0.2	0.26	4150	3340	15	16.82	19
105J_1989_1622	1	2.1	3	524	665	0.10	16.0	29	20.2	<0.2	0.29	2700	2031	12	14.42	15
105J_1989_1623	2	2.0	3	556	633	0.09	15.8	28	17.2	<0.2	0.27	1196	1190	12	13.12	15
105J_1989_1624	0	3.8	4	139	141	0.18	14.1	34	13.7	<0.2	0.58	983	1085	4	3.43	4

Unique ID	Rep Stat	Na ICP-MS % 0.001	Na INAA pct 0.02	Ni AAS ppm 2	Ni ICP-MS ppm 0.1	P ICP-MS % 0.001	Pb AAS ppm 2	Pb ICP-MS ppm 0.01	Rb INAA ppm 5	S ICP-MS % 0.01	Sb HY-AAS ppm 0.2	Sb ICP-MS ppm 0.02	Sb INAA ppm 0.1	Sc ICP-MS ppm 0.1	Sc INAA ppm 0.2	Se ICP-MS ppm 0.1
105J_1989_1588	0	0.010	0.41	60	60.2	0.135	15	14.33	100	0.08	3.6	2.59	4.6	3.5	10.0	4.7
105J_1989_1589	0	0.017	0.91	39	39.3	0.130	5	8.69	99	0.05	2.3	1.93	3.6	2.3	8.9	2.7
105J_1989_1590	0	0.018	0.81	45	47.1	0.127	7	9.11	110	0.06	1.6	1.44	2.5	1.9	9.0	3.9
105J_1989_1591	0	0.015	0.85	34	34.3	0.098	8	9.41	100	0.04	2.1	1.73	3.1	2.1	8.6	2.6
105J_1989_1593	0	0.018	0.88	32	31.7	0.112	10	8.73	99	0.05	2.0	1.53	3.0	2.0	8.2	2.7
105J_1989_1594	0	0.013	0.50	42	47.4	0.217	13	13.75	96	0.07	3.9	3.14	4.9	3.6	8.9	3.7
105J_1989_1595	0	0.022	0.94	40	37.1	0.079	11	11.35	130	0.17	2.9	1.98	4.5	2.0	7.5	2.4
105J_1989_1596	0	0.009	0.37	602	420.9	0.148	6	7.49	48	0.20	1.7	2.22	3.3	0.4	4.3	13.6
105J_1989_1597	0	0.007	<0.02	29	24.3	0.142	3	2.07	<5	1.65	0.6	1.34	1.4	0.3	0.6	5.2
105J_1989_1598	0	0.006	0.20	46	44.9	0.384	8	10.27	92	0.06	3.0	2.80	4.9	2.5	8.2	2.1
105J_1989_1599	0	0.006	0.25	53	50.5	0.295	14	11.91	93	0.06	4.0	3.18	5.8	2.7	8.1	2.7
105J_1989_1600	0	0.005	0.29	57	51.8	0.168	12	11.81	86	0.03	2.7	1.98	4.1	2.8	8.4	2.2
105J_1989_1602	1	0.014	0.63	44	43.4	0.156	15	13.27	82	0.17	1.2	1.13	1.8	3.5	8.6	2.6
105J_1989_1603	2	0.014	0.68	40	43.3	0.177	14	13.05	88	0.19	1.2	1.02	1.9	3.6	10.0	2.7
105J_1989_1604	0	0.007	0.28	60	61.0	0.262	13	11.50	110	0.10	3.6	2.88	5.5	2.7	10.0	3.0
105J_1989_1605	0	0.006	0.28	54	59.4	0.279	14	12.08	99	0.08	3.4	2.99	5.2	2.8	9.2	2.8
105J_1989_1606	0	0.007	0.38	58	65.5	0.209	12	9.50	83	0.07	2.1	1.50	3.0	2.3	8.0	2.1
105J_1989_1607	0	0.009	0.37	15	17.7	0.165	10	5.89	35	0.25	0.4	0.54	0.7	1.6	4.5	1.7
105J_1989_1608	0	0.012	0.74	21	23.3	0.123	14	9.82	89	0.13	0.6	0.58	1.1	3.2	10.0	1.0
105J_1989_1610	0	0.009	0.51	30	30.8	0.156	12	7.67	85	0.13	0.7	0.68	1.3	2.8	8.8	2.0
105J_1989_1611	0	0.010	0.56	22	21.4	0.130	13	10.66	70	0.30	0.7	0.63	1.0	2.1	7.1	1.8
105J_1989_1612	0	0.008	0.66	17	18.0	0.088	14	12.12	98	0.08	0.9	0.63	1.5	1.7	7.6	0.7
105J_1989_1613	0	0.005	0.08	14	14.7	0.140	6	4.13	6	0.74	1.0	1.18	1.5	0.6	3.1	2.3
105J_1989_1614	0	0.014	0.81	17	19.0	0.140	10	6.32	56	0.28	0.6	0.65	1.1	1.5	5.9	1.8
105J_1989_1615	0	0.011	0.78	25	24.8	0.106	16	12.55	130	0.07	0.6	0.40	1.1	2.0	12.0	0.4
105J_1989_1616	0	0.010	0.66	60	64.0	0.130	12	8.17	65	0.43	1.6	1.42	2.4	2.7	8.1	2.7
105J_1989_1617	0	0.006	0.50	78	82.4	0.163	15	12.78	90	0.09	1.6	1.22	2.5	2.5	9.5	3.3
105J_1989_1618	0	0.008	0.67	21	20.8	0.097	12	10.51	90	0.06	1.1	0.90	2.0	2.5	9.2	0.7
105J_1989_1619	0	0.006	0.32	145	139.6	0.142	22	19.54	93	0.12	11.0	9.48	16.1	2.1	7.7	5.7
105J_1989_1620	0	0.006	0.31	153	151.5	0.144	21	18.73	97	0.11	14.0	9.87	16.6	2.1	7.6	5.8
105J_1989_1622	1	0.007	0.34	104	104.4	0.131	21	19.38	95	0.13	12.0	9.59	14.8	2.0	7.5	6.6
105J_1989_1623	2	0.006	0.31	104	103.9	0.120	22	20.05	99	0.14	13.0	8.85	15.4	2.1	7.0	6.2
105J_1989_1624	0	0.010	0.44	37	41.1	0.140	18	15.86	100	0.07	2.1	1.74	3.4	2.3	8.2	1.4

Unique ID	Rep Stat	Sm INAA	Sn AAS	Sr ICP-MS	Ta INAA	Tb INAA	Te ICP-MS	Th ICP-MS	Th INAA	Ti ICP-MS	Tl ICP-MS	U ICP-MS	U INAA	U NADNC	V AAS	V ICP-MS
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.5	0.5	0.5	0.02	0.1	0.2	0.001	0.02	0.1	0.2	0.5	5	2
105J_1989_1588	0	4.6	4	56.1	1.0	0.6	0.06	4.0	8.9	0.020	0.36	6.5	8.6	8.0	79	80
105J_1989_1589	0	4.8	3	40.9	0.7	0.7	0.04	3.6	9.1	0.020	0.27	3.1	6.7	5.7	65	69
105J_1989_1590	0	4.6	3	42.4	0.7	0.5	0.03	0.9	10.0	0.021	0.27	3.3	6.2	6.0	83	90
105J_1989_1591	0	6.1	3	36.5	0.8	0.7	0.02	2.3	12.0	0.021	0.27	2.9	6.6	5.8	59	58
105J_1989_1593	0	5.0	3	35.7	0.7	<0.5	0.02	2.1	10.0	0.018	0.24	2.8	6.1	5.2	61	58
105J_1989_1594	0	4.8	3	39.3	0.6	0.6	0.05	5.1	10.0	0.033	0.37	5.8	6.9	7.3	89	86
105J_1989_1595	0	7.0	2	33.6	0.6	0.7	0.02	5.9	14.0	0.024	0.25	1.9	6.2	4.7	43	35
105J_1989_1596	0	2.0	1	87.5	0.6	<0.5	0.04	0.1	4.2	0.009	0.46	2.9	4.8	4.8	30	26
105J_1989_1597	0	0.2	4	59.6	<0.5	<0.5	<0.02	0.2	0.5	0.002	0.03	8.0	8.1	8.5	13	8
105J_1989_1598	0	6.8	2	135.4	1.0	0.7	0.05	3.4	7.9	0.011	0.22	4.5	8.2	7.7	83	98
105J_1989_1599	0	5.7	3	98.6	1.0	0.7	0.05	3.5	8.1	0.010	0.27	4.4	8.5	7.6	89	102
105J_1989_1600	0	4.9	2	75.3	0.7	0.6	0.06	2.1	7.2	0.007	0.21	3.0	6.4	5.7	75	88
105J_1989_1602	1	4.4	2	83.0	1.0	0.6	0.07	3.5	7.9	0.008	0.24	3.1	5.6	6.1	56	58
105J_1989_1603	2	4.7	3	92.4	0.8	0.8	0.04	3.2	8.2	0.008	0.22	3.1	5.7	6.3	50	53
105J_1989_1604	0	5.7	6	88.2	1.2	0.9	0.07	3.0	8.0	0.008	0.27	4.1	8.2	7.5	83	82
105J_1989_1605	0	5.6	1	88.3	1.1	0.9	0.08	3.2	7.9	0.009	0.26	4.8	8.4	8.1	84	86
105J_1989_1606	0	5.0	1	117.2	0.9	0.7	0.07	2.5	7.0	0.007	0.27	3.2	5.9	6.0	78	78
105J_1989_1607	0	2.4	2	154.0	<0.5	<0.5	0.05	1.2	3.7	0.005	0.09	2.5	3.2	3.7	43	33
105J_1989_1608	0	4.5	2	92.4	1.2	0.8	0.04	2.3	8.0	0.006	0.14	1.2	4.2	4.6	36	37
105J_1989_1610	0	4.2	1	83.5	1.0	0.8	0.04	2.5	7.4	0.007	0.13	1.5	4.3	4.3	37	38
105J_1989_1611	0	3.9	1	62.9	0.9	0.8	0.04	2.2	7.2	0.007	0.10	2.0	3.7	4.1	34	28
105J_1989_1612	0	6.0	2	54.5	1.2	0.9	0.03	3.3	12.0	0.003	0.08	1.8	4.5	4.8	29	25
105J_1989_1613	0	1.5	<1	87.2	<0.5	<0.5	<0.02	0.2	2.9	0.005	0.04	3.1	3.4	3.9	18	7
105J_1989_1614	0	3.1	2	129.8	0.5	0.5	0.03	1.2	5.4	0.005	0.09	2.8	4.0	4.6	35	28
105J_1989_1615	0	6.9	2	47.4	1.0	1.0	0.03	3.6	13.0	0.004	0.10	1.8	4.7	4.6	28	26
105J_1989_1616	0	4.5	2	55.6	0.7	0.8	0.03	2.4	6.9	0.004	0.19	3.8	6.2	6.7	34	35
105J_1989_1617	0	5.2	3	74.5	0.8	0.8	0.05	2.2	9.4	0.004	0.23	3.6	6.3	6.6	44	58
105J_1989_1618	0	5.0	2	51.7	1.2	1.0	0.02	2.8	10.0	0.004	0.11	1.1	3.9	3.9	29	31
105J_1989_1619	0	4.3	4	81.4	0.7	1.0	0.07	1.6	6.0	0.004	0.89	12.6	18.0	18.4	223	250
105J_1989_1620	0	4.4	3	81.9	<0.5	1.0	0.09	1.6	5.9	0.004	0.87	12.6	18.0	18.4	232	242
105J_1989_1622	1	4.1	3	80.9	0.7	1.1	0.06	1.2	6.0	0.004	0.88	16.6	23.3	24.4	237	211
105J_1989_1623	2	4.2	6	79.5	0.6	1.1	0.10	1.4	6.4	0.004	0.86	16.0	23.5	23.2	219	225
105J_1989_1624	0	5.6	4	59.1	1.0	0.8	0.06	2.1	10.0	0.014	0.21	2.5	5.3	5.3	62	64

Unique ID	Rep Stat	W ICP-MS ppm 0.1	W INAA ppm 1	wt INAA g 0.01	Yb INAA ppm 2	Zn AAS ppm 2	Zn ICP-MS ppm 0.1
105J_1989_1588	0	0.5	2	26.81	2	370	375.3
105J_1989_1589	0	0.4	2	41.20	<2	310	332.3
105J_1989_1590	0	0.5	2	29.07	<2	403	451.8
105J_1989_1591	0	1.0	3	38.20	3	194	190.1
105J_1989_1593	0	0.7	2	37.79	2	206	209.0
105J_1989_1594	0	1.2	2	26.32	<2	276	258.0
105J_1989_1595	0	0.9	3	45.09	<2	146	139.3
105J_1989_1596	0	0.4	<1	16.28	<2	1110	900.0
105J_1989_1597	0	0.2	<1	10.74	<2	99	95.8
105J_1989_1598	0	1.3	3	28.35	<2	334	332.8
105J_1989_1599	0	0.8	3	26.16	<2	358	363.8
105J_1989_1600	0	0.1	<1	42.95	2	271	257.8
105J_1989_1602	1	<0.1	<1	13.84	<2	188	154.9
105J_1989_1603	2	<0.1	1	24.45	2	195	169.3
105J_1989_1604	0	0.4	2	43.29	3	403	427.5
105J_1989_1605	0	0.5	2	39.19	3	362	387.6
105J_1989_1606	0	1.6	2	29.32	2	336	354.7
105J_1989_1607	0	<0.1	<1	16.09	<2	225	212.8
105J_1989_1608	0	<0.1	<1	28.62	2	123	121.2
105J_1989_1610	0	<0.1	<1	32.97	<2	151	147.8
105J_1989_1611	0	<0.1	<1	23.15	<2	154	146.1
105J_1989_1612	0	<0.1	1	33.39	<2	105	98.7
105J_1989_1613	0	<0.1	<1	14.61	<2	86	81.1
105J_1989_1614	0	<0.1	<1	17.85	<2	198	163.0
105J_1989_1615	0	<0.1	2	20.48	3	133	123.1
105J_1989_1616	0	<0.1	1	27.66	<2	235	238.7
105J_1989_1617	0	<0.1	1	28.10	2	380	395.7
105J_1989_1618	0	<0.1	2	36.28	2	108	95.7
105J_1989_1619	0	0.1	1	28.70	4	1010	971.5
105J_1989_1620	0	<0.1	1	30.11	4	1020	1010.8
105J_1989_1622	1	<0.1	2	12.85	4	819	761.9
105J_1989_1623	2	<0.1	2	32.52	3	864	768.9
105J_1989_1624	0	<0.1	1	21.95	2	216	228.5

Unique ID	Rep Stat	Ag AAS	Ag ICP-MS	Al ICP-MS	As HY-AAS	As ICP-MS	As INAA	Au INAA	Au1 INAA	Au1_wt -	B ICP-MS	Ba ICP-MS	Ba INAA	Bi ICP-MS	Br INAA	Ca ICP-MS
		ppm	ppb	%	ppm	ppm	ppm	ppb	ppb	g	ppm	ppm	ppm	ppm	ppm	%
		0.2	2	0.01	1	0.1	0.5	2	2	0.01	1	0.5	50	0.02	0.5	0.01
105J_1989_1625	0	0.2	431	0.93	8	9.7	16.0	17	14	11.43	3	423.2	2800	0.18	10.0	0.56
105J_1989_1626	0	0.3	492	1.08	7	9.6	13.0	11			6	310.6	2500	0.15	6.5	0.94
105J_1989_1627	0	1.0	1179	1.22	4	3.8	6.8	13			5	796.0	2200	0.13	28.0	0.58
105J_1989_1628	0	0.4	273	1.88	20	26.7	34.0	7			4	296.9	2200	0.17	4.6	1.09
105J_1989_1629	0	<0.2	281	1.79	14	18.0	28.0	6			3	343.3	3000	0.17	4.8	1.06
105J_1989_1631	0	0.4	262	1.82	19	24.3	31.0	7			2	314.4	2400	0.16	3.2	0.95
105J_1989_1632	0	<0.2	275	1.68	15	20.4	25.0	9			3	351.3	2200	0.16	2.7	1.00
105J_1989_1633	0	0.2	221	0.83	30	46.3	55.6	5			3	503.0	2200	0.10	12.0	1.05
105J_1989_1634	0	<0.2	251	0.89	30	50.2	55.6	4			3	563.4	2200	0.10	13.0	1.12
105J_1989_1635	0	0.4	471	1.25	20	34.7	40.0	9			6	679.0	2700	0.18	11.0	0.91
105J_1989_1636	0	0.4	432	1.16	19	30.4	38.0	9			5	584.6	2800	0.17	13.0	0.98
105J_1989_1637	0	0.3	634	0.71	2	<0.1	3.5	12			11	297.5	1500	0.10	40.0	1.15
105J_1989_1638	0	0.6	723	0.80	8	9.0	12.0	21	22	26.67	3	572.4	3700	0.18	6.4	0.83
105J_1989_1639	0	0.7	607	0.80	1	0.7	2.9	14	13	18.81	7	240.9	2000	0.11	20.0	0.93
105J_1989_1640	0	0.8	614	0.83	7	9.0	14.0	19	19	26.98	4	542.4	3200	0.15	5.9	0.81
105J_1989_1642	1	0.6	581	0.88	7	9.4	13.0	15	17	10.77	4	499.4	3400	0.14	5.6	0.87
105J_1989_1643	2	0.7	504	0.85	7	9.0	13.0	15	15	27.32	5	592.9	3400	0.13	4.8	0.79
105J_1989_1644	0	<0.2	176	0.91	19	33.2	38.0	<2			6	635.4	2800	0.08	6.0	0.79
105J_1989_1645	0	<0.2	196	0.92	13	21.2	27.0	4			6	575.8	2900	0.09	5.6	0.62
105J_1989_1646	0	0.3	311	1.01	11	21.4	24.0	5			6	513.2	2400	0.11	6.0	0.76
105J_1989_1647	0	0.4	225	0.83	5	7.7	11.0	4			6	778.1	3000	0.11	2.2	0.84
105J_1989_1648	0	<0.2	145	0.80	4	6.2	8.8	3			3	493.6	2200	0.14	2.9	0.61
105J_1989_1650	0	0.4	327	0.92	4	6.2	7.8	4			5	417.7	1800	0.15	6.7	0.65
105J_1989_1651	0	0.2	202	0.67	5	7.1	10.0	3			3	433.9	2200	0.11	1.5	0.67
105J_1989_3002	0	0.2	242	1.18	7	11.4	14.0	<2			4	281.8	1200	0.23	6.6	1.22
105J_1989_3003	0	<0.2	132	0.90	3	4.8	7.4	<2			3	193.6	1400	0.15	13.0	0.56
105J_1989_3005	0	<0.2	107	0.99	<1	0.2	1.8	<2			2	165.2	780	0.05	5.7	0.88
105J_1989_3006	0	0.2	411	1.55	4	6.2	8.9	<2			4	303.6	1400	0.21	10.0	1.32
105J_1989_3007	0	<0.2	210	0.99	5	7.2	11.0	<2			2	278.7	2000	0.16	3.9	0.55
105J_1989_3008	0	<0.2	270	1.43	5	7.1	10.0	<2			3	307.1	1700	0.16	6.3	0.70
105J_1989_3009	1	0.3	193	0.92	10	12.3	18.0	<2			2	323.5	2000	0.15	3.3	0.49
105J_1989_3010	2	0.3	188	0.94	10	12.1	19.0	4			2	362.1	2200	0.15	3.4	0.48
105J_1989_3011	0	0.2	293	0.93	7	10.0	12.0	4			3	426.1	2300	0.15	5.3	0.68

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Unique ID	Rep Stat	Cd AAS	Cd ICP-MS	Ce INAA	Co AAS	Co ICP-MS	Co INAA	Cr ICP-MS	Cr INAA	Cs INAA	Cu AAS	Cu ICP-MS	Eu INAA	F ISE	Fe AAS	Fe ICP-MS	Fe INAA
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	pct	%	pct
		0.2	0.01	5	2	0.1	5	0.5	20	0.5	2	0.01	1	20	0.02	0.01	0.2
105J_1989_1625	0	4.3	4.84	71	10	11.4	15	15.2	80	4.8	88	86.96	2	494	2.90	2.40	3.6
105J_1989_1626	0	2.5	2.42	74	9	9.0	11	20.6	75	4.8	77	78.96	2	562	2.37	2.14	3.1
105J_1989_1627	0	2.5	2.86	50	5	6.3	10	17.7	72	4.4	65	60.79	<1	449	1.58	1.45	2.2
105J_1989_1628	0	1.6	1.84	73	8	9.3	12	26.0	73	4.1	43	39.63	<1	658	2.53	2.20	3.2
105J_1989_1629	0	1.5	1.74	110	9	9.3	15	26.1	86	5.2	40	41.24	2	551	2.15	2.07	3.8
105J_1989_1631	0	1.2	1.45	86	9	9.6	12	26.0	73	4.4	38	36.67	<1	617	2.28	2.16	3.2
105J_1989_1632	0	1.3	1.56	85	9	8.9	12	25.0	81	4.0	39	39.10	1	612	2.06	2.04	2.8
105J_1989_1633	0	1.0	1.44	47	6	6.1	8	12.6	58	2.4	26	24.29	<1	487	4.82	4.46	5.8
105J_1989_1634	0	1.2	1.63	44	6	6.9	9	13.4	50	2.7	27	27.76	<1	458	5.07	4.76	5.6
105J_1989_1635	0	2.1	2.47	60	10	11.8	13	21.4	81	4.3	53	52.17	<1	504	4.21	4.09	4.5
105J_1989_1636	0	1.8	2.26	66	9	10.6	14	20.5	66	4.1	49	50.30	1	464	3.99	3.59	4.6
105J_1989_1637	0	2.3	2.28	51	8	4.9	6	12.3	66	3.2	77	75.78	<1	549	0.81	0.73	1.2
105J_1989_1638	0	1.7	2.19	71	10	12.8	16	14.1	85	5.2	71	74.11	1	737	2.36	2.29	3.4
105J_1989_1639	0	1.1	1.27	67	4	4.3	6	11.8	85	4.4	58	54.91	1	610	0.95	0.80	1.4
105J_1989_1640	0	1.6	1.88	67	9	9.6	15	12.7	91	5.3	69	68.10	1	746	2.85	2.73	3.8
105J_1989_1642	1	1.3	1.80	63	8	7.9	10	13.4	81	4.3	56	55.12	1	683	2.36	2.46	3.0
105J_1989_1643	2	1.4	1.46	67	8	7.9	11	13.4	84	4.7	57	52.39	<1	683	2.17	2.34	3.1
105J_1989_1644	0	0.4	1.00	58	6	6.7	8	13.0	67	3.0	20	20.68	<1	522	3.64	3.74	4.2
105J_1989_1645	0	0.6	1.07	60	7	6.8	9	12.2	59	4.2	21	22.44	<1	487	3.30	3.28	4.2
105J_1989_1646	0	1.6	1.86	49	7	6.4	8	13.2	60	3.9	30	29.97	<1	434	3.77	3.33	3.5
105J_1989_1647	0	1.0	1.30	51	7	7.8	10	13.5	41	3.3	27	28.33	<1	540	1.70	1.74	2.0
105J_1989_1648	0	0.4	0.73	97	6	6.6	8	12.7	69	3.4	16	15.77	<1	453	1.48	1.45	2.0
105J_1989_1650	0	1.4	1.72	62	6	5.7	7	13.9	64	3.3	33	32.64	<1	396	1.34	1.18	1.5
105J_1989_1651	0	0.4	0.83	65	7	6.1	8	11.9	61	3.0	22	22.07	<1	468	1.40	1.40	2.0
105J_1989_3002	0	0.6	1.13	96	7	5.8	8	11.2	41	4.5	20	20.17	1	324	2.73	2.50	3.2
105J_1989_3003	0	<0.2	0.50	69	7	5.6	10	11.6	45	4.4	14	13.69	<1	317	1.61	1.48	2.4
105J_1989_3005	0	0.8	1.09	34	3	1.9	<5	5.9	<20	2.0	18	18.63	<1	228	0.48	0.41	1.1
105J_1989_3006	0	1.0	1.24	67	7	5.9	9	14.5	38	6.4	29	26.35	<1	306	1.95	1.71	2.3
105J_1989_3007	0	0.6	0.90	93	7	5.8	9	11.6	45	6.0	18	17.08	1	342	1.60	1.57	2.4
105J_1989_3008	0	0.5	0.96	97	7	7.0	9	15.5	58	7.1	21	20.27	2	349	1.93	1.79	2.7
105J_1989_3009	1	0.5	0.86	94	9	6.9	12	13.6	61	5.7	21	19.74	1	373	1.76	1.70	2.3
105J_1989_3010	2	0.5	0.77	95	6	6.8	10	13.3	66	5.4	20	18.37	2	367	1.73	1.72	2.7
105J_1989_3011	0	0.8	1.37	79	8	8.5	12	15.7	72	4.9	25	25.52	<1	365	1.82	1.84	2.6

Unique ID	Rep Stat	Ga ICP-MS ppm 0.2	Hf INAA ppm 1	Hg CV-AAS ppb 10	Hg ICP-MS ppb 5	K ICP-MS % 0.01	La ICP-MS ppm 0.5	La INAA ppm 2	LOI GRAV pct 1.0	Lu INAA ppm 0.2	Mg ICP-MS % 0.01	Mn AAS ppm 5	Mn ICP-MS ppm 1	Mo AAS ppm 2	Mo ICP-MS ppm 0.01	Mo INAA ppm 1
105J_1989_1625	0	2.4	4	250	271	0.09	12.2	34	13.2	<0.2	0.42	605	644	3	2.48	2
105J_1989_1626	0	3.2	4	173	197	0.10	16.6	36	20.1	<0.2	0.70	505	499	3	2.45	4
105J_1989_1627	0	2.8	2	377	473	0.15	11.1	22	30.9	<0.2	0.34	1130	1098	<2	2.36	2
105J_1989_1628	0	5.4	5	116	114	0.15	15.0	40	13.4	<0.2	0.87	269	316	<2	0.94	1
105J_1989_1629	0	5.4	6	102	110	0.16	15.9	52	12.6	<0.2	0.85	256	326	<2	0.98	3
105J_1989_1631	0	5.2	5	105	98	0.15	15.3	42	11.7	<0.2	0.88	246	311	<2	0.96	2
105J_1989_1632	0	5.0	5	99	93	0.17	16.1	39	10.3	<0.2	0.79	258	331	<2	1.14	1
105J_1989_1633	0	2.2	3	111	118	0.08	9.6	26	18.0	<0.2	0.39	3625	2825	4	4.48	5
105J_1989_1634	0	2.4	4	116	138	0.09	10.0	24	20.0	<0.2	0.41	4500	3664	5	5.16	5
105J_1989_1635	0	3.6	3	187	234	0.13	18.0	29	13.8	<0.2	0.57	4260	3593	3	2.21	<1
105J_1989_1636	0	3.4	4	190	255	0.12	17.0	31	14.7	<0.2	0.56	3100	2524	3	2.08	2
105J_1989_1637	0	1.8	2	1292	957	0.10	10.3	25	30.1	<0.2	0.34	66	69	3	3.67	4
105J_1989_1638	0	2.2	4	347	426	0.10	13.4	38	12.0	<0.2	0.36	228	274	4	4.22	4
105J_1989_1639	0	1.9	3	503	636	0.09	9.4	32	18.6	<0.2	0.34	49	54	<2	1.96	2
105J_1989_1640	0	2.0	4	282	333	0.10	11.6	37	11.3	<0.2	0.35	174	225	3	3.58	4
105J_1989_1642	1	2.3	4	255	326	0.11	10.6	33	9.7	<0.2	0.38	749	1116	3	2.72	3
105J_1989_1643	2	2.2	5	258	272	0.11	10.7	35	9.4	<0.2	0.37	678	816	3	2.98	3
105J_1989_1644	0	2.5	4	105	135	0.12	9.6	25	12.2	<0.2	0.33	964	1196	3	2.64	3
105J_1989_1645	0	2.5	4	112	123	0.10	8.8	28	13.2	<0.2	0.31	321	383	<2	2.09	2
105J_1989_1646	0	2.6	3	136	158	0.10	8.9	24	19.6	<0.2	0.31	336	364	<2	2.04	2
105J_1989_1647	0	2.4	3	116	121	0.15	10.6	24	7.9	<0.2	0.39	329	421	<2	1.87	2
105J_1989_1648	0	2.5	7	75	84	0.12	13.4	44	6.6	<0.2	0.30	176	227	<2	0.59	<1
105J_1989_1650	0	2.4	4	114	124	0.12	10.8	28	17.4	<0.2	0.29	121	119	<2	1.02	<1
105J_1989_1651	0	2.0	4	95	99	0.10	10.6	29	6.0	<0.2	0.32	260	305	<2	1.24	2
105J_1989_3002	0	3.9	3	88	98	0.09	29.3	46	24.4	<0.2	0.35	401	386	<2	1.06	<1
105J_1989_3003	0	2.6	5	54	54	0.08	13.6	36	10.8	<0.2	0.31	263	303	<2	0.59	<1
105J_1989_3005	0	2.6	2	54	44	0.06	6.1	17	19.9	<0.2	0.16	48	52	<2	0.42	2
105J_1989_3006	0	4.2	4	122	136	0.11	12.7	31	23.3	<0.2	0.46	274	287	<2	1.20	2
105J_1989_3007	0	3.1	12	65	62	0.08	17.3	47	6.8	<0.2	0.34	221	254	<2	1.08	<1
105J_1989_3008	0	4.4	8	75	74	0.11	21.1	49	11.5	<0.2	0.44	278	330	<2	1.17	<1
105J_1989_3009	1	2.6	7	65	58	0.08	17.6	43	6.1	<0.2	0.36	295	342	<2	1.25	1
105J_1989_3010	2	2.7	9	65	63	0.08	18.4	50	5.3	<0.2	0.37	250	322	<2	1.17	<1
105J_1989_3011	0	2.7	6	88	92	0.09	15.3	37	8.2	<0.2	0.42	365	456	<2	1.54	2

Unique ID	Rep Stat	Na ICP-MS % 0.001	Na INAA pct 0.02	Ni AAS ppm 2	Ni ICP-MS ppm 0.1	P ICP-MS % 0.001	Pb AAS ppm 2	Pb ICP-MS ppm 0.01	Rb INAA ppm 5	S ICP-MS % 0.01	Sb HY-AAS ppm 0.2	Sb ICP-MS ppm 0.02	Sb INAA ppm 0.1	Sc ICP-MS ppm 0.1	Sc INAA ppm 0.2	Se ICP-MS ppm 0.1
105J_1989_1625	0	0.004	0.39	72	74.5	0.142	14	12.91	89	0.09	2.1	1.78	3.4	2.2	10.0	3.8
105J_1989_1626	0	0.007	0.67	38	40.7	0.154	12	10.50	92	0.10	2.1	2.14	3.6	2.4	10.0	2.6
105J_1989_1627	0	0.012	0.56	41	42.5	0.236	11	9.73	73	0.19	1.6	1.63	2.7	0.4	9.3	6.9
105J_1989_1628	0	0.062	1.00	30	32.4	0.117	15	12.55	88	0.07	2.0	1.50	2.7	3.0	10.0	1.6
105J_1989_1629	0	0.059	1.30	31	34.0	0.128	16	13.10	110	0.06	1.6	1.44	3.3	3.2	13.0	1.5
105J_1989_1631	0	0.058	0.91	29	31.8	0.131	12	12.05	92	0.06	1.6	1.24	2.5	3.1	10.0	1.3
105J_1989_1632	0	0.060	0.86	27	31.5	0.131	13	11.88	87	0.05	1.8	1.38	2.5	3.0	9.0	1.2
105J_1989_1633	0	0.012	0.57	23	26.1	0.177	10	6.86	74	0.16	1.4	0.85	1.6	1.8	6.7	4.0
105J_1989_1634	0	0.012	0.53	23	29.8	0.187	11	7.51	78	0.17	1.3	0.89	1.6	1.9	6.5	3.9
105J_1989_1635	0	0.013	0.63	43	45.4	0.167	14	13.58	91	0.10	1.7	1.24	2.6	3.0	8.1	4.1
105J_1989_1636	0	0.013	0.65	42	40.4	0.170	13	12.45	110	0.12	1.5	1.36	2.7	2.8	8.5	4.5
105J_1989_1637	0	0.007	0.33	46	38.9	0.131	10	7.47	79	0.45	1.1	1.19	1.7	2.5	7.8	11.5
105J_1989_1638	0	0.005	0.36	43	40.6	0.162	16	13.05	120	0.11	2.0	1.56	3.3	3.7	12.0	2.7
105J_1989_1639	0	0.006	0.36	34	28.1	0.119	10	8.07	98	0.30	0.9	0.81	1.4	2.7	9.1	6.1
105J_1989_1640	0	0.005	0.34	44	40.4	0.177	14	11.58	110	0.07	2.0	2.12	3.4	3.5	11.0	3.1
105J_1989_1642	1	0.006	0.37	38	34.5	0.135	13	10.53	110	0.09	1.6	1.48	2.7	3.2	9.2	2.6
105J_1989_1643	2	0.005	0.36	37	33.3	0.152	14	10.17	110	0.07	1.5	1.64	2.7	3.0	10.0	2.5
105J_1989_1644	0	0.009	0.38	20	21.4	0.190	10	6.34	77	0.12	1.1	0.96	1.5	2.2	7.0	1.5
105J_1989_1645	0	0.008	0.47	22	22.4	0.162	10	6.69	86	0.25	1.1	0.99	1.7	2.3	7.9	1.6
105J_1989_1646	0	0.011	0.43	24	22.8	0.175	12	7.85	91	0.37	1.0	1.02	1.7	2.6	6.5	2.1
105J_1989_1647	0	0.009	0.35	28	26.2	0.158	11	10.36	90	0.06	1.4	1.31	2.3	2.6	6.1	1.6
105J_1989_1648	0	0.007	0.56	20	19.3	0.133	10	8.10	91	0.04	0.6	0.61	1.2	2.1	7.6	0.9
105J_1989_1650	0	0.013	0.60	27	23.3	0.114	11	9.80	77	0.14	1.0	1.10	1.8	2.6	7.0	1.1
105J_1989_1651	0	0.006	0.52	23	21.2	0.115	12	10.45	77	0.03	1.1	1.10	1.9	2.2	7.3	0.9
105J_1989_3002	0	0.027	1.00	13	13.3	0.101	18	14.16	110	0.14	0.5	0.66	1.1	3.4	9.0	1.2
105J_1989_3003	0	0.013	1.20	14	13.6	0.092	12	10.22	120	0.09	0.4	0.41	0.9	1.8	9.0	1.1
105J_1989_3005	0	0.052	1.40	7	5.6	0.066	7	4.05	50	0.24	0.4	0.41	0.7	1.6	4.3	2.0
105J_1989_3006	0	0.020	0.94	21	19.9	0.082	18	15.32	100	0.14	0.8	0.78	1.3	3.3	10.0	2.7
105J_1989_3007	0	0.011	1.00	16	15.2	0.100	14	12.56	130	0.03	0.9	0.73	1.7	2.2	8.4	0.9
105J_1989_3008	0	0.017	1.10	18	19.1	0.100	15	13.01	110	0.04	1.0	0.89	1.6	3.2	10.0	1.0
105J_1989_3009	1	0.011	0.88	20	19.0	0.090	15	11.71	100	0.02	1.3	0.97	1.9	2.3	9.3	1.1
105J_1989_3010	2	0.011	1.00	18	19.5	0.094	14	11.84	120	0.02	1.1	1.00	2.0	2.2	10.0	1.0
105J_1989_3011	0	0.011	0.83	26	27.2	0.110	15	12.44	99	0.06	1.4	1.32	2.2	2.5	9.4	1.8

Unique ID	Rep Stat	Sm INAA	Sn AAS	Sr ICP-MS	Ta INAA	Tb INAA	Te ICP-MS	Th ICP-MS	Th INAA	Ti ICP-MS	Tl ICP-MS	U ICP-MS	U INAA	U NADNC	V AAS	V ICP-MS
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.5	0.5	0.5	0.02	0.1	0.2	0.001	0.02	0.1	0.2	0.5	5	2
105J_1989_1625	0	5.9	<1	75.7	0.9	1.2	0.06	1.8	9.0	0.004	0.16	4.4	6.8	6.8	41	38
105J_1989_1626	0	4.9	2	73.6	0.9	0.7	0.04	1.3	8.8	0.006	0.20	4.1	7.1	7.0	42	48
105J_1989_1627	0	4.4	<1	67.3	0.5	0.9	0.03	0.1	5.0	0.002	0.23	4.5	6.8	7.5	43	48
105J_1989_1628	0	5.6	3	82.5	1.0	0.9	0.02	2.0	10.0	0.045	0.18	2.0	4.6	4.7	44	49
105J_1989_1629	0	7.3	<1	82.8	1.6	1.1	0.03	2.7	13.0	0.044	0.19	1.8	5.6	4.5	46	47
105J_1989_1631	0	5.9	2	83.8	1.3	1.0	0.05	2.6	10.0	0.043	0.17	1.8	4.5	4.6	42	49
105J_1989_1632	0	5.8	2	85.4	1.3	0.9	0.02	2.6	10.0	0.041	0.17	1.8	4.7	4.6	42	48
105J_1989_1633	0	3.8	3	80.2	0.7	<0.5	0.03	1.8	6.5	0.008	0.14	3.2	5.2	5.4	37	44
105J_1989_1634	0	3.7	2	82.2	0.6	0.6	0.02	1.8	6.1	0.008	0.14	3.5	5.4	5.4	41	46
105J_1989_1635	0	5.0	4	77.6	0.9	0.8	0.06	3.4	8.3	0.012	0.24	1.8	4.3	4.6	79	63
105J_1989_1636	0	5.3	3	75.5	1.1	0.9	0.03	2.9	8.7	0.011	0.22	1.9	4.8	4.3	65	55
105J_1989_1637	0	3.2	2	57.3	1.0	0.6	<0.02	1.2	6.5	0.004	0.28	15.9	19.0	20.9	37	30
105J_1989_1638	0	5.6	1	53.3	1.5	1.0	0.06	2.5	10.0	0.004	0.24	3.3	7.6	7.1	61	54
105J_1989_1639	0	4.4	1	52.4	1.2	0.8	<0.02	1.7	8.1	0.003	0.21	6.0	11.0	10.6	40	31
105J_1989_1640	0	5.4	1	56.5	1.5	1.0	0.05	2.3	9.3	0.003	0.22	2.2	6.7	6.4	67	59
105J_1989_1642	1	5.1	1	56.8	1.5	0.7	0.03	2.4	8.9	0.004	0.20	1.6	5.2	5.5	62	57
105J_1989_1643	2	5.2	2	55.6	1.5	0.9	0.02	2.4	9.0	0.004	0.21	1.6	5.6	5.2	74	58
105J_1989_1644	0	4.0	3	59.1	1.0	0.8	<0.02	2.3	6.8	0.006	0.13	1.3	3.5	3.4	52	46
105J_1989_1645	0	4.2	<1	49.8	1.1	0.6	<0.02	2.1	7.1	0.005	0.13	1.0	3.5	3.4	45	43
105J_1989_1646	0	4.0	1	51.6	0.9	0.7	0.02	2.4	6.9	0.004	0.15	1.6	3.8	4.0	46	44
105J_1989_1647	0	4.6	1	67.0	0.9	0.6	0.03	2.8	7.4	0.007	0.17	1.8	4.6	4.2	54	51
105J_1989_1648	0	7.4	2	45.0	1.2	1.0	<0.02	3.2	12.0	0.016	0.15	1.2	4.5	4.0	37	30
105J_1989_1650	0	4.4	4	41.1	1.0	0.6	0.02	2.5	7.8	0.005	0.16	1.4	3.8	3.8	51	39
105J_1989_1651	0	4.6	2	45.8	0.9	0.6	0.02	2.7	7.4	0.007	0.12	1.1	3.4	3.3	46	39
105J_1989_3002	0	6.1	5	58.3	0.9	0.8	<0.02	4.8	12.0	0.025	0.15	10.6	13.0	13.2	48	32
105J_1989_3003	0	5.6	3	32.6	1.1	0.8	<0.02	3.5	10.0	0.014	0.10	3.2	6.5	6.1	24	27
105J_1989_3005	0	2.3	3	31.5	<0.5	<0.5	<0.02	0.9	5.3	0.019	0.07	6.2	7.9	8.7	19	14
105J_1989_3006	0	4.8	3	51.4	0.7	0.6	<0.02	3.1	11.0	0.016	0.13	4.5	7.1	7.1	48	32
105J_1989_3007	0	8.0	3	33.1	1.4	1.0	0.02	4.3	17.0	0.019	0.11	3.6	9.0	7.6	57	34
105J_1989_3008	0	8.0	2	37.4	1.2	1.4	<0.02	3.7	14.0	0.039	0.14	4.9	9.0	8.4	61	40
105J_1989_3009	1	6.9	5	32.0	1.1	0.9	0.04	3.9	13.0	0.016	0.12	2.1	5.5	5.1	48	36
105J_1989_3010	2	8.0	3	33.3	1.2	1.0	<0.02	4.5	15.0	0.017	0.12	1.8	5.7	4.6	45	36
105J_1989_3011	0	6.1	3	44.2	1.3	0.9	0.02	3.0	10.0	0.012	0.18	1.0	3.7	3.7	48	36

Unique ID	Rep Stat	W ICP-MS ppm 0.1	W INAA ppm 1	wt INAA g 0.01	Yb INAA ppm 2	Zn AAS ppm 2	Zn ICP-MS ppm 0.1
105J_1989_1625	0	<0.1	<1	20.39	3	369	352.3
105J_1989_1626	0	<0.1	1	30.80	3	189	178.7
105J_1989_1627	0	<0.1	<1	18.79	2	198	179.7
105J_1989_1628	0	0.2	<1	30.05	3	208	189.7
105J_1989_1629	0	<0.1	1	21.06	3	194	190.3
105J_1989_1631	0	0.3	<1	33.66	3	189	184.9
105J_1989_1632	0	0.2	1	16.29	2	157	158.2
105J_1989_1633	0	<0.1	<1	29.72	2	257	179.5
105J_1989_1634	0	<0.1	<1	27.65	<2	190	184.9
105J_1989_1635	0	0.2	1	26.65	<2	247	255.0
105J_1989_1636	0	<0.1	2	29.79	<2	226	234.5
105J_1989_1637	0	<0.1	<1	26.48	<2	148	140.8
105J_1989_1638	0	<0.1	2	35.99	3	255	260.3
105J_1989_1639	0	<0.1	1	27.75	3	137	122.8
105J_1989_1640	0	0.8	1	36.37	3	240	235.8
105J_1989_1642	1	<0.1	2	15.91	2	214	218.2
105J_1989_1643	2	<0.1	<1	34.24	2	224	216.1
105J_1989_1644	0	<0.1	1	15.77	<2	175	174.0
105J_1989_1645	0	0.1	<1	29.32	<2	192	189.9
105J_1989_1646	0	<0.1	1	26.31	<2	232	239.7
105J_1989_1647	0	0.1	<1	29.06	<2	150	156.0
105J_1989_1648	0	1.0	3	39.54	3	111	118.5
105J_1989_1650	0	0.1	<1	23.24	2	157	161.8
105J_1989_1651	0	<0.1	2	45.00	2	113	113.2
105J_1989_3002	0	0.2	2	24.52	3	124	112.1
105J_1989_3003	0	0.3	3	35.86	3	88	88.9
105J_1989_3005	0	<0.1	2	16.39	<2	58	62.9
105J_1989_3006	0	0.1	<1	22.57	<2	134	124.2
105J_1989_3007	0	0.3	3	38.25	3	114	108.0
105J_1989_3008	0	0.4	3	31.09	3	113	108.5
105J_1989_3009	1	0.3	2	18.70	2	118	108.3
105J_1989_3010	2	0.2	3	40.18	3	111	106.8
105J_1989_3011	0	0.1	2	37.24	3	135	145.1

Unique ID	Rep Stat	Ag AAS	Ag ICP-MS	Al ICP-MS	As HY-AAS	As ICP-MS	As INAA	Au INAA	Au1 INAA	Au1_wt -	B ICP-MS	Ba ICP-MS	Ba INAA	Bi ICP-MS	Br INAA	Ca ICP-MS
		ppm	ppb	%	ppm	ppm	ppm	ppb	ppb	g	ppm	ppm	ppm	ppm	ppm	%
		0.2	2	0.01	1	0.1	0.5	2	2	0.01	1	0.5	50	0.02	0.5	0.01
105J_1989_3012	0	0.5	311	1.56	13	18.6	23.0	4			2	294.2	1400	1.91	12.0	0.62
105J_1989_3013	0	0.4	266	0.89	7	9.2	12.0	<2			2	171.4	1600	0.17	5.6	0.51
105J_1989_3014	0	<0.2	268	0.74	8	9.4	13.0	<2			2	168.2	1600	0.15	4.6	0.53
105J_1989_3015	0	<0.2	297	0.76	3	3.5	6.5	<2			3	165.5	1300	0.10	2.9	0.65
105J_1989_3016	0	0.3	522	1.16	5	6.8	9.2	4			2	403.1	2200	0.14	7.4	0.75
105J_1989_3017	0	0.2	455	1.08	10	11.9	16.0	8			3	386.5	2000	0.16	3.8	0.68
105J_1989_3018	0	<0.2	196	0.71	6	8.2	13.0	5			2	489.9	2900	0.12	1.2	0.39
105J_1989_3019	0	0.3	195	0.87	7	9.4	15.0	<2			3	668.0	3600	0.16	1.9	0.40
105J_1989_3020	0	0.4	238	0.94	3	5.0	8.5	5			2	634.1	3000	0.12	4.7	0.51
105J_1989_3022	0	<0.2	186	0.93	6	9.4	14.0	3			2	544.4	2500	0.17	2.2	0.36
105J_1989_3023	0	<0.2	302	1.48	6	10.7	14.0	5			1	293.5	1500	0.17	9.2	0.44
105J_1989_3024	0	0.2	332	1.15	9	14.5	20.0	5			1	370.1	2000	0.23	4.5	0.45
105J_1989_3025	0	0.2	637	1.81	15	25.6	34.0	9			<1	161.4	1500	0.26	14.0	0.41
105J_1989_3026	0	<0.2	221	2.92	7	11.3	14.0	<2			<1	153.9	1300	0.22	24.0	0.31
105J_1989_3027	0	<0.2	226	1.36	8	13.8	19.0	3			<1	143.6	1200	0.25	9.1	0.51
105J_1989_3028	0	<0.2	178	1.33	5	6.5	10.0	<2			1	88.6	1300	0.20	3.8	0.44
105J_1989_3029	0	<0.2	173	0.73	3	5.4	8.5	<2			1	520.5	1500	0.23	19.0	1.01
105J_1989_3030	1	<0.2	179	1.20	6	10.2	15.0	4			1	163.6	1500	0.24	3.7	0.46
105J_1989_3031	2	<0.2	172	1.09	7	9.1	13.0	<2			<1	168.4	1500	0.21	3.1	0.43
105J_1989_3032	0	<0.2	195	1.69	6	8.5	13.0	<2			<1	67.8	1100	0.25	9.4	0.59
105J_1989_3033	0	<0.2	275	1.64	16	25.3	34.0	<2			<1	113.4	1200	0.26	7.1	0.39
105J_1989_3034	0	<0.2	154	1.69	11	19.5	28.0	4			<1	162.3	1300	0.22	3.5	0.33
105J_1989_3035	0	<0.2	159	1.52	14	22.2	27.0	3			<1	174.1	1200	0.20	2.5	0.44
105J_1989_3036	0	<0.2	130	1.60	7	10.2	15.0	<2			<1	114.8	1100	0.17	4.1	0.49
105J_1989_3038	0	<0.2	138	2.40	10	15.5	22.0	<2			<1	113.3	1000	0.31	12.0	0.84
105J_1989_3039	0	<0.2	194	2.11	8	12.7	17.0	<2			<1	106.4	880	0.24	22.0	0.68
105J_1989_3040	0	<0.2	338	1.49	16	25.6	32.0	4			<1	215.7	2000	0.27	11.0	0.55
105J_1989_3042	1	0.2	296	0.95	12	17.8	26.0	4			1	275.6	2100	0.18	5.0	0.47
105J_1989_3043	2	0.3	280	0.99	13	18.2	24.0	5			1	309.8	2100	0.19	4.2	0.47
105J_1989_3045	0	0.2	71	1.26	13	15.3	22.0	<2			<1	110.4	1400	0.13	<0.5	0.41
105J_1989_3046	0	0.5	747	1.36	10	12.8	18.0	7			<1	259.3	1700	0.27	6.7	0.35
105J_1989_3047	0	<0.2	172	1.82	3	5.6	9.5	<2			<1	167.5	1100	0.17	11.0	0.69
105J_1989_3048	0	<0.2	110	1.82	5	7.3	12.0	6			<1	158.9	1200	0.18	4.0	0.64

Unique ID	Rep Stat	Cd AAS	Cd ICP-MS	Ce INAA	Co AAS	Co ICP-MS	Co INAA	Cr ICP-MS	Cr INAA	Cs INAA	Cu AAS	Cu ICP-MS	Eu INAA	F ISE	Fe AAS	Fe ICP-MS	Fe INAA
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	pct	%	pct
		0.2	0.01	5	2	0.1	5	0.5	20	0.5	2	0.01	1	20	0.02	0.01	0.2
105J_1989_3012	0	0.8	1.23	100	8	7.8	13	15.6	46	7.3	17	17.79	1	321	1.96	1.87	2.7
105J_1989_3013	0	0.6	0.98	110	6	7.8	9	10.7	73	6.5	18	18.42	2	362	1.82	1.97	2.9
105J_1989_3014	0	0.6	0.98	110	6	7.6	11	9.6	73	6.4	20	20.20	2	406	2.00	1.93	2.6
105J_1989_3015	0	2.5	2.68	75	5	5.5	10	11.2	92	5.0	14	13.18	1	465	1.32	1.27	2.1
105J_1989_3016	0	1.4	1.93	80	7	8.4	13	18.2	85	8.1	29	28.85	2	409	1.78	1.75	2.6
105J_1989_3017	0	1.3	1.42	86	7	7.5	11	17.1	77	6.3	29	28.36	1	432	1.89	1.88	2.4
105J_1989_3018	0	0.6	0.90	69	8	6.8	8	11.4	52	4.7	24	23.14	1	391	1.82	1.68	2.2
105J_1989_3019	0	0.7	1.13	82	7	7.1	8	13.8	70	6.0	24	24.33	1	441	1.82	1.83	2.4
105J_1989_3020	0	0.8	1.30	89	6	6.1	8	11.7	49	4.9	20	19.82	1	393	1.71	1.61	2.4
105J_1989_3022	0	0.2	0.68	75	8	8.4	12	13.0	57	6.7	20	21.74	1	468	1.82	1.91	2.7
105J_1989_3023	0	0.4	0.76	76	7	7.4	11	15.6	41	14.0	16	15.69	1	379	2.47	2.37	3.2
105J_1989_3024	0	0.5	1.06	85	8	10.4	12	15.0	56	10.0	26	26.40	<1	425	2.25	2.23	2.9
105J_1989_3025	0	1.3	1.66	110	12	16.0	21	19.6	54	27.0	66	63.22	2	454	3.47	3.49	4.3
105J_1989_3026	0	1.4	1.60	210	86	95.1	110	16.9	53	18.0	27	25.63	4	375	2.66	2.76	3.5
105J_1989_3027	0	1.9	1.97	110	21	22.1	29	14.0	53	10.0	36	33.98	<1	444	2.76	2.71	3.3
105J_1989_3028	0	0.2	0.39	100	9	9.2	12	13.0	47	10.0	19	21.66	<1	467	2.28	2.36	3.5
105J_1989_3029	0	0.4	0.91	87	16	19.7	19	9.6	60	5.4	24	25.31	1	391	4.74	4.66	4.7
105J_1989_3030	1	0.4	0.91	89	9	12.8	15	14.3	53	9.0	27	29.05	1	437	2.40	2.54	3.0
105J_1989_3031	2	0.6	0.94	100	11	12.7	17	13.1	55	7.7	27	28.93	<1	500	2.41	2.47	3.1
105J_1989_3032	0	<0.2	0.27	91	8	7.8	11	11.6	45	17.0	11	10.06	1	423	2.64	2.53	3.6
105J_1989_3033	0	<0.2	0.35	110	11	13.7	18	11.8	33	30.0	12	11.83	2	600	3.77	3.74	4.8
105J_1989_3034	0	<0.2	0.21	100	9	9.6	12	12.6	35	22.0	10	10.75	2	415	3.02	3.03	4.1
105J_1989_3035	0	0.2	0.36	93	8	9.1	12	11.9	29	12.0	9	9.67	<1	453	3.24	3.20	4.1
105J_1989_3036	0	0.2	0.23	91	7	6.4	10	11.8	47	12.0	8	8.22	1	369	2.28	2.23	3.1
105J_1989_3038	0	0.2	0.17	100	8	8.2	10	14.8	47	18.0	11	11.18	1	372	2.66	2.78	3.9
105J_1989_3039	0	0.2	0.36	92	9	8.6	11	14.5	<20	21.0	12	11.40	1	387	2.87	2.98	3.7
105J_1989_3040	0	0.8	1.29	84	11	12.0	14	14.2	46	16.0	26	25.36	2	450	3.11	3.38	3.8
105J_1989_3042	1	1.7	1.86	85	24	27.0	31	13.2	62	7.8	35	33.81	<1	488	2.70	2.57	3.1
105J_1989_3043	2	1.8	1.79	79	23	26.2	31	13.4	67	6.9	34	33.05	<1	452	2.55	2.58	3.1
105J_1989_3045	0	<0.2	0.38	91	7	7.0	8	9.9	40	6.6	9	9.41	<1	309	2.58	2.38	3.3
105J_1989_3046	0	3.3	3.24	220	7	7.8	13	17.6	68	10.0	34	34.40	<1	490	2.01	2.01	2.7
105J_1989_3047	0	<0.2	0.61	91	7	7.2	11	11.9	28	9.5	9	7.96	2	316	2.43	2.54	3.6
105J_1989_3048	0	<0.2	0.21	99	8	7.7	14	11.5	41	8.5	7	7.34	1	385	2.74	2.74	4.1

Unique ID	Rep Stat	Ga ICP-MS ppm 0.2	Hf INAA ppm 1	Hg CV-AAS ppb 10	Hg ICP-MS ppb 5	K ICP-MS % 0.01	La ICP-MS ppm 0.5	La INAA ppm 2	LOI GRAV pct 1.0	Lu INAA ppm 0.2	Mg ICP-MS % 0.01	Mn AAS ppm 5	Mn ICP-MS ppm 1	Mo AAS ppm 2	Mo ICP-MS ppm 0.01	Mo INAA ppm 1
105J_1989_3012	0	4.0	6	78	83	0.10	26.8	50	12.7	<0.2	0.31	463	539	<2	1.18	<1
105J_1989_3013	0	2.3	8	68	74	0.11	17.3	54	7.5	<0.2	0.23	250	325	<2	1.32	<1
105J_1989_3014	0	1.9	6	68	78	0.09	11.3	52	7.9	<0.2	0.20	351	420	<2	1.39	<1
105J_1989_3015	0	2.0	10	82	93	0.08	14.1	34	7.0	<0.2	0.24	405	442	<2	1.30	<1
105J_1989_3016	0	3.0	6	78	83	0.10	17.4	39	10.7	<0.2	0.60	246	308	3	2.15	2
105J_1989_3017	0	2.9	10	82	78	0.11	16.6	41	6.8	<0.2	0.42	233	286	3	2.31	1
105J_1989_3018	0	2.0	6	98	88	0.08	14.0	33	4.2	<0.2	0.29	324	365	3	1.80	1
105J_1989_3019	0	2.6	10	74	67	0.08	17.9	42	5.3	<0.2	0.36	163	202	3	2.16	2
105J_1989_3020	0	2.7	8	109	94	0.09	15.8	40	7.4	<0.2	0.29	149	184	<2	1.27	2
105J_1989_3022	0	2.7	6	86	87	0.08	15.1	41	5.4	<0.2	0.36	231	315	<2	1.08	<1
105J_1989_3023	0	4.0	6	62	41	0.09	20.4	40	10.8	<0.2	0.46	415	496	<2	1.00	<1
105J_1989_3024	0	3.1	6	109	73	0.11	17.5	40	8.2	<0.2	0.39	366	446	<2	1.34	<1
105J_1989_3025	0	5.1	4	226	190	0.09	34.5	54	11.1	<0.2	0.70	474	596	4	3.74	2
105J_1989_3026	0	5.5	5	90	78	0.07	71.3	94	12.5	<0.2	0.57	958	1184	3	1.83	<1
105J_1989_3027	0	3.0	6	84	76	0.09	26.7	56	9.2	<0.2	0.56	835	913	<2	1.09	<1
105J_1989_3028	0	4.0	9	35	29	0.07	22.0	46	4.9	<0.2	0.61	279	370	<2	0.62	<1
105J_1989_3029	0	1.7	5	133	202	0.10	10.8	38	17.9	<0.2	0.19	7225	5146	<2	1.16	<1
105J_1989_3030	1	3.4	7	51	43	0.08	22.4	45	4.4	<0.2	0.59	419	513	<2	1.05	<1
105J_1989_3031	2	3.2	7	47	46	0.07	20.7	46	4.8	<0.2	0.56	444	520	<2	0.99	<1
105J_1989_3032	0	5.4	10	51	27	0.07	25.1	47	8.0	<0.2	0.66	473	559	<2	0.48	<1
105J_1989_3033	0	4.7	8	51	41	0.10	37.4	56	7.4	<0.2	0.55	803	1003	<2	1.56	<1
105J_1989_3034	0	4.7	8	43	30	0.09	29.0	48	9.5	<0.2	0.54	415	510	<2	0.98	<1
105J_1989_3035	0	4.6	18	35	46	0.11	28.1	40	3.8	<0.2	0.57	617	770	<2	0.82	<1
105J_1989_3036	0	5.0	12	47	49	0.08	21.9	45	5.6	<0.2	0.56	203	266	<2	0.57	1
105J_1989_3038	0	7.3	5	39	47	0.11	28.1	45	7.5	<0.2	0.67	491	617	<2	0.72	<1
105J_1989_3039	0	6.8	7	51	52	0.13	30.7	43	9.0	<0.2	0.69	509	634	<2	0.70	<1
105J_1989_3040	0	4.3	5	82	75	0.11	31.3	44	10.1	<0.2	0.52	785	999	<2	1.59	<1
105J_1989_3042	1	2.5	5	86	70	0.08	17.5	36	8.3	<0.2	0.33	1075	1186	<2	1.98	1
105J_1989_3043	2	2.5	6	82	73	0.08	17.9	36	8.3	<0.2	0.34	1028	1162	3	2.07	<1
105J_1989_3045	0	4.2	7	39	35	0.09	24.6	44	2.4	<0.2	0.51	381	464	<2	0.59	<1
105J_1989_3046	0	4.9	9	86	68	0.13	60.5	94	7.5	<0.2	0.32	329	404	6	6.02	2
105J_1989_3047	0	5.1	10	74	60	0.09	31.8	47	8.2	<0.2	0.55	260	359	<2	0.53	<1
105J_1989_3048	0	5.3	11	42	45	0.10	29.5	48	5.5	<0.2	0.61	336	431	<2	0.50	<1

Unique ID	Rep Stat	Na ICP-MS % 0.001	Na INAA pct 0.02	Ni AAS ppm 2	Ni ICP-MS ppm 0.1	P ICP-MS % 0.001	Pb AAS ppm 2	Pb ICP-MS ppm 0.01	Rb INAA ppm 5	S ICP-MS % 0.01	Sb HY-AAS ppm 0.2	Sb ICP-MS ppm 0.02	Sb INAA ppm 0.1	Sc ICP-MS ppm 0.1	Sc INAA ppm 0.2	Se ICP-MS ppm 0.1
105J_1989_3012	0	0.017	1.10	17	17.8	0.102	15	13.93	120	0.05	1.0	0.90	1.7	2.6	10.0	1.9
105J_1989_3013	0	0.010	0.68	19	20.1	0.094	16	15.40	130	0.04	1.0	0.73	1.4	2.9	10.0	1.6
105J_1989_3014	0	0.006	0.61	21	20.8	0.099	16	13.96	130	0.05	1.1	0.73	1.5	2.6	10.0	1.4
105J_1989_3015	0	0.011	0.75	17	17.1	0.165	9	7.20	89	0.04	1.0	0.68	1.6	2.0	9.5	2.2
105J_1989_3016	0	0.008	0.88	31	31.1	0.098	16	14.42	110	0.05	1.6	1.59	2.7	2.3	10.0	1.6
105J_1989_3017	0	0.020	0.61	30	28.7	0.142	16	16.53	87	0.04	1.7	1.79	2.9	2.5	10.0	2.1
105J_1989_3018	0	0.008	0.57	24	24.3	0.091	11	10.85	94	0.02	1.6	1.31	2.6	1.8	7.7	1.5
105J_1989_3019	0	0.009	0.58	24	24.1	0.085	16	15.24	100	0.04	1.9	1.53	3.3	2.0	8.6	1.4
105J_1989_3020	0	0.014	0.76	18	19.3	0.092	10	8.59	100	0.07	1.1	0.94	2.0	2.4	9.1	2.2
105J_1989_3022	0	0.009	0.64	18	22.8	0.080	12	11.93	110	0.05	1.5	1.07	2.2	2.2	10.0	1.1
105J_1989_3023	0	0.016	0.87	12	15.1	0.085	13	11.78	120	0.04	1.0	0.73	1.6	3.1	13.0	1.0
105J_1989_3024	0	0.013	0.70	23	28.1	0.086	14	14.51	110	0.05	1.8	1.44	2.7	2.8	10.0	1.4
105J_1989_3025	0	0.009	0.64	41	44.9	0.113	21	21.81	160	0.08	3.2	2.52	4.7	4.8	16.0	1.9
105J_1989_3026	0	0.013	0.95	94	97.3	0.090	16	13.99	120	0.07	1.0	0.84	1.8	4.3	14.0	1.4
105J_1989_3027	0	0.010	0.67	50	48.2	0.074	19	16.17	130	0.06	1.4	1.14	2.4	2.9	12.0	1.4
105J_1989_3028	0	0.012	1.00	18	19.9	0.080	17	15.74	160	0.03	0.9	0.71	2.1	3.3	14.0	0.5
105J_1989_3029	0	0.015	0.47	22	26.3	0.090	14	14.40	100	0.12	0.9	0.77	1.5	2.4	8.6	1.7
105J_1989_3030	1	0.010	0.68	27	29.6	0.080	18	18.77	150	0.05	1.5	1.15	2.6	3.1	10.0	0.7
105J_1989_3031	2	0.008	0.72	28	29.9	0.077	19	17.73	140	0.04	1.4	1.18	2.3	2.8	11.0	0.8
105J_1989_3032	0	0.022	1.30	4	5.2	0.061	17	15.00	190	0.04	0.9	0.44	1.9	4.5	16.0	0.7
105J_1989_3033	0	0.009	0.79	6	8.6	0.077	24	22.56	190	0.06	1.8	1.21	2.7	5.4	18.0	0.9
105J_1989_3034	0	0.015	1.00	6	8.1	0.064	19	17.29	160	0.04	1.4	0.96	2.2	5.4	17.0	0.5
105J_1989_3035	0	0.022	1.00	5	8.0	0.069	15	14.40	160	0.05	1.5	1.11	2.2	5.6	16.0	0.7
105J_1989_3036	0	0.029	1.50	6	6.6	0.066	11	9.86	130	0.04	1.0	0.65	1.8	4.7	15.0	0.6
105J_1989_3038	0	0.032	1.40	8	8.1	0.070	19	17.37	130	0.04	0.9	0.52	1.2	6.4	18.0	0.5
105J_1989_3039	0	0.032	1.20	6	7.1	0.071	18	17.66	140	0.05	1.1	0.69	1.5	6.6	16.0	1.0
105J_1989_3040	0	0.012	0.67	25	27.6	0.078	30	28.62	170	0.06	2.2	1.52	3.2	4.8	15.0	2.2
105J_1989_3042	1	0.008	0.56	58	59.0	0.088	17	14.05	110	0.06	2.4	2.17	4.3	2.7	9.3	1.8
105J_1989_3043	2	0.009	0.56	57	56.8	0.086	17	14.49	97	0.07	2.5	2.21	3.9	2.7	10.0	1.8
105J_1989_3045	0	0.030	1.30	6	8.0	0.059	12	10.22	130	0.01	0.4	1.11	2.8	4.7	14.0	0.3
105J_1989_3046	0	0.009	1.10	48	49.6	0.099	35	32.32	210	0.04	2.5	2.23	3.7	2.9	10.0	7.1
105J_1989_3047	0	0.025	1.30	5	6.7	0.066	13	12.02	130	0.04	1.0	0.69	1.7	6.3	17.0	1.1
105J_1989_3048	0	0.026	1.40	3	5.4	0.078	16	13.96	140	0.02	1.2	0.87	2.2	5.9	17.0	0.5

Unique ID	Rep Stat	Sm INAA ppm 0.1	Sn AAS ppm 1	Sr ICP-MS ppm 0.5	Ta INAA ppm 0.5	Tb INAA ppm 0.5	Te ICP-MS ppm 0.02	Th ICP-MS ppm 0.1	Th INAA ppm 0.2	Ti ICP-MS % 0.001	Tl ICP-MS ppm 0.02	U ICP-MS ppm 0.1	U INAA ppm 0.2	U NADNC ppm 0.5	V AAS ppm 5	V ICP-MS ppm 2
105J_1989_3012	0	8.5	2	33.3	1.1	1.3	0.02	2.9	16.0	0.015	0.16	8.1	12.0	11.6	36	34
105J_1989_3013	0	8.7	3	24.9	1.3	1.2	0.04	4.1	19.0	0.006	0.14	1.1	4.3	4.2	26	25
105J_1989_3014	0	8.5	3	23.7	1.3	1.2	0.04	2.1	18.0	0.003	0.12	1.0	3.9	3.8	24	21
105J_1989_3015	0	6.2	2	36.1	1.1	1.0	<0.02	2.4	10.0	0.005	0.17	1.1	4.7	4.3	32	22
105J_1989_3016	0	6.6	3	40.2	1.0	1.1	0.04	2.0	10.0	0.014	0.21	0.9	4.0	3.5	54	31
105J_1989_3017	0	7.0	3	42.5	1.0	1.1	0.05	3.1	11.0	0.010	0.20	1.4	5.3	5.5	54	38
105J_1989_3018	0	6.0	3	45.3	1.2	0.8	<0.02	3.2	10.0	0.008	0.13	1.0	4.3	3.9	24	35
105J_1989_3019	0	7.6	3	41.6	1.3	1.1	0.03	4.0	13.0	0.008	0.13	1.4	5.8	4.9	35	40
105J_1989_3020	0	6.8	2	46.0	1.1	1.0	0.03	3.1	11.0	0.009	0.15	2.3	6.4	5.6	40	43
105J_1989_3022	0	6.3	3	38.3	1.2	0.9	<0.02	3.7	11.0	0.008	0.14	1.3	4.4	3.7	35	33
105J_1989_3023	0	7.0	3	30.9	1.2	1.1	0.03	1.6	11.0	0.016	0.16	2.2	5.1	4.8	34	39
105J_1989_3024	0	6.6	3	36.8	0.9	1.0	0.06	3.4	11.0	0.010	0.19	2.0	5.0	4.6	41	37
105J_1989_3025	0	9.1	1	41.8	1.3	1.5	0.08	3.0	12.0	0.027	0.31	3.3	6.4	6.1	59	65
105J_1989_3026	0	18.4	3	26.9	1.1	3.5	0.04	2.3	10.0	0.036	0.17	3.6	5.8	5.8	43	46
105J_1989_3027	0	9.3	2	38.2	1.2	1.4	0.03	4.7	14.0	0.015	0.13	1.6	4.6	4.4	33	27
105J_1989_3028	0	7.5	2	27.8	1.8	1.1	0.03	5.6	14.0	0.031	0.11	1.3	4.8	4.2	35	35
105J_1989_3029	0	6.8	3	80.1	1.1	1.0	0.03	3.0	13.0	0.004	0.11	1.3	3.6	3.8	24	23
105J_1989_3030	1	8.2	3	34.5	1.7	1.4	0.04	5.8	15.0	0.021	0.11	1.2	4.6	4.0	36	30
105J_1989_3031	2	8.0	2	32.4	1.4	1.2	0.04	5.4	14.0	0.017	0.11	1.1	4.4	3.8	31	28
105J_1989_3032	0	7.9	4	30.9	1.2	1.3	0.02	5.4	14.0	0.035	0.10	3.4	6.5	6.0	40	38
105J_1989_3033	0	9.5	3	22.5	1.3	1.6	0.02	6.0	15.0	0.015	0.18	3.5	6.7	6.2	42	37
105J_1989_3034	0	8.1	2	23.1	1.4	1.4	0.03	4.7	14.0	0.013	0.15	2.9	6.2	5.1	41	40
105J_1989_3035	0	6.9	2	30.6	1.4	1.2	0.02	7.7	14.0	0.035	0.13	2.1	5.4	5.0	43	41
105J_1989_3036	0	7.1	5	29.3	1.8	1.1	<0.02	5.2	13.0	0.046	0.10	3.0	6.4	5.7	39	38
105J_1989_3038	0	7.9	3	42.2	1.3	1.2	<0.02	5.3	14.0	0.047	0.12	5.6	8.9	7.5	50	48
105J_1989_3039	0	7.8	3	32.3	1.1	1.2	<0.02	6.0	13.0	0.045	0.13	5.7	8.2	8.1	44	48
105J_1989_3040	0	7.7	3	33.3	1.3	1.2	0.03	5.4	12.0	0.010	0.18	1.9	5.0	4.7	43	43
105J_1989_3042	1	7.0	2	49.9	1.1	1.1	0.05	3.4	11.0	0.008	0.14	1.7	5.4	4.7	40	37
105J_1989_3043	2	6.5	2	49.1	1.1	1.0	0.04	3.5	10.0	0.008	0.15	1.6	4.9	4.3	36	38
105J_1989_3045	0	7.3	2	22.9	1.2	1.3	0.02	7.9	15.0	0.041	0.08	1.2	4.4	4.2	37	34
105J_1989_3046	0	16.7	4	30.6	2.2	2.9	0.03	14.7	32.6	0.022	0.26	6.8	12.0	11.1	57	66
105J_1989_3047	0	8.4	3	40.8	1.2	1.4	<0.02	6.9	16.0	0.029	0.11	3.6	7.1	6.0	34	39
105J_1989_3048	0	7.8	1	36.6	1.6	1.4	<0.02	7.8	16.0	0.037	0.09	1.6	4.9	4.2	40	40

Unique ID	Rep Stat	W ICP-MS ppm 0.1	W INAA ppm 1	wt INAA g 0.01	Yb INAA ppm 2	Zn AAS ppm 2	Zn ICP-MS ppm 0.1
105J_1989_3012	0	0.2	1	24.47	3	122	125.8
105J_1989_3013	0	0.5	2	25.43	3	104	112.2
105J_1989_3014	0	<0.1	2	35.13	3	110	108.6
105J_1989_3015	0	<0.1	2	30.62	3	128	125.8
105J_1989_3016	0	0.4	2	33.25	3	168	164.8
105J_1989_3017	0	0.6	2	33.77	3	154	150.3
105J_1989_3018	0	<0.1	2	45.46	3	138	135.6
105J_1989_3019	0	0.3	3	39.79	3	150	152.6
105J_1989_3020	0	<0.1	2	30.73	2	142	152.6
105J_1989_3022	0	0.2	2	39.86	2	113	117.1
105J_1989_3023	0	0.2	3	18.00	3	115	112.1
105J_1989_3024	0	0.3	2	25.38	3	146	146.3
105J_1989_3025	0	0.2	3	29.47	4	274	333.1
105J_1989_3026	0	0.4	2	26.71	7	700	623.6
105J_1989_3027	0	0.1	3	27.69	3	303	285.0
105J_1989_3028	0	0.1	3	37.71	3	101	102.8
105J_1989_3029	0	<0.1	3	17.82	<2	186	192.2
105J_1989_3030	1	0.1	3	31.81	2	155	165.8
105J_1989_3031	2	0.5	2	20.20	3	155	158.6
105J_1989_3032	0	0.3	3	28.59	3	71	68.8
105J_1989_3033	0	0.2	5	33.15	5	111	108.4
105J_1989_3034	0	0.1	4	33.00	4	76	73.6
105J_1989_3035	0	0.1	4	18.41	4	78	80.1
105J_1989_3036	0	0.3	2	39.07	4	66	65.7
105J_1989_3038	0	0.2	2	29.78	3	72	71.4
105J_1989_3039	0	0.3	3	12.79	3	79	78.2
105J_1989_3040	0	0.1	2	27.19	3	174	181.8
105J_1989_3042	1	<0.1	2	17.79	3	306	303.7
105J_1989_3043	2	0.1	<1	29.26	2	315	325.1
105J_1989_3045	0	0.2	2	36.55	3	67	67.2
105J_1989_3046	0	0.5	2	29.72	7	437	486.4
105J_1989_3047	0	0.1	1	34.19	4	103	99.0
105J_1989_3048	0	0.1	2	42.44	4	70	71.3

Unique ID	Rep Stat	Ag AAS	Ag ICP-MS	Al ICP-MS	As HY-AAS	As ICP-MS	As INAA	Au INAA	Au1 INAA	Au1_wt -	B ICP-MS	Ba ICP-MS	Ba INAA	Bi ICP-MS	Br INAA	Ca ICP-MS
		ppm	ppb	%	ppm	ppm	ppm	ppb	ppb	g	ppm	ppm	ppm	ppm	ppm	%
		0.2	2	0.01	1	0.1	0.5	2	2	0.01	1	0.5	50	0.02	0.5	0.01
105J_1989_3049	0	<0.2	191	2.18	10	17.5	24.0	<2			<1	155.7	1100	0.25	10.0	0.54
105J_1989_3050	0	<0.2	134	1.69	8	15.1	20.0	<2			1	132.1	1100	0.24	4.7	0.35
105J_1989_3051	0	<0.2	136	1.74	4	6.7	10.0	<2			1	193.3	1100	0.17	6.0	0.58
105J_1989_3052	0	<0.2	99	1.93	4	7.8	11.0	<2			1	244.0	1200	0.17	4.1	0.59
105J_1989_3053	0	<0.2	126	1.92	5	9.4	15.0	<2			2	276.6	1400	0.18	9.4	0.74
105J_1989_3054	0	0.2	170	1.70	6	11.4	17.0	5			1	187.2	1200	0.18	9.2	0.61
105J_1989_3055	0	<0.2	39	1.78	8	11.7	18.0	<2			1	190.5	1500	0.19	1.6	0.46
105J_1989_3056	0	0.3	486	1.34	19	38.0	46.0	4			3	690.0	2500	0.26	6.1	0.46
105J_1989_3057	0	0.6	612	1.50	30	50.7	55.7	10			1	258.1	1700	0.28	8.7	0.54
105J_1989_3058	0	0.3	553	1.12	15	30.2	33.0	24	8	25.91	2	487.7	2300	0.20	2.7	0.37
105J_1989_3059	0	0.2	248	0.92	5	8.8	12.0	6			2	416.9	2100	0.17	3.9	0.35
105J_1989_3060	0	0.4	299	0.88	6	10.8	15.0	4			1	340.7	2000	0.17	3.9	0.48
105J_1989_3062	0	0.3	189	1.04	8	12.3	17.0	3			2	339.9	1800	0.18	2.5	0.48
105J_1989_3063	1	<0.2	88	1.62	2	3.7	5.9	<2			1	264.8	1700	0.11	1.5	0.76
105J_1989_3064	2	<0.2	92	1.69	2	3.8	6.2	3			2	269.5	1700	0.11	2.1	0.79
105J_1989_3065	0	<0.2	64	2.29	11	19.5	28.0	<2			2	200.2	1200	0.17	8.5	0.90
105J_1989_3067	0	<0.2	65	2.12	8	14.3	19.0	<2			2	212.8	1200	0.16	7.4	0.87
105J_1989_3068	0	<0.2	67	2.06	3	5.6	8.7	<2			2	226.9	1200	0.14	6.4	0.92
105J_1989_3069	0	0.2	242	0.77	6	9.2	13.0	<2			1	132.7	1400	0.13	4.7	0.36
105J_1989_3070	0	0.4	263	0.94	9	15.4	19.0	<2			1	161.4	1500	0.16	6.0	0.39
105J_1989_3071	0	0.2	295	0.99	10	16.2	21.0	<2			1	137.9	1400	0.13	3.9	0.38
105J_1989_3072	0	0.9	1057	1.93	5	14.0	17.0	8			2	416.0	2200	0.22	8.7	0.97
105J_1989_3073	0	0.4	492	1.09	8	12.4	15.0	9			3	472.0	2500	0.14	5.1	0.60
105J_1989_3074	0	0.7	805	1.20	6	11.0	13.0	7			2	562.9	2800	0.20	3.8	0.50
105J_1989_3075	0	0.3	238	1.61	10	15.3	21.0	7			<1	70.4	1100	0.43	5.0	0.51
105J_1989_3076	0	0.4	427	1.12	3	6.5	9.2	4			2	629.9	2400	0.21	7.8	0.71
105J_1989_3077	0	0.3	334	0.63	8	11.4	15.0	8			2	632.9	3500	0.21	1.2	0.61
105J_1989_3078	0	0.3	425	0.85	6	10.8	14.0	5			2	478.7	2900	0.16	2.9	0.64
105J_1989_3079	0	0.4	212	0.77	3	5.0	7.1	3			3	306.3	1800	0.17	2.7	0.92
105J_1989_3080	0	0.3	243	0.90	4	8.5	11.0	3			4	443.9	1700	0.12	11.0	1.32
105J_1989_3082	0	0.3	363	1.21	5	9.5	12.0	9			5	693.5	4000	0.16	4.2	1.04
105J_1989_3083	0	<0.2	455	0.96	4	7.3	10.0	8			4	514.0	3000	0.12	2.4	1.05
105J_1989_3084	1	0.2	499	1.34	3	7.6	9.4	7			4	494.9	2800	0.18	6.2	1.09

Unique ID	Rep Stat	Cd AAS	Cd ICP-MS	Ce INAA	Co AAS	Co ICP-MS	Co INAA	Cr ICP-MS	Cr INAA	Cs INAA	Cu AAS	Cu ICP-MS	Eu INAA	F ISE	Fe AAS	Fe ICP-MS	Fe INAA
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	pct	%	pct
		0.2	0.01	5	2	0.1	5	0.5	20	0.5	2	0.01	1	20	0.02	0.01	0.2
105J_1989_3049	0	<0.2	0.23	92	10	9.3	15	14.1	39	14.0	11	10.66	2	367	2.88	3.19	4.6
105J_1989_3050	0	<0.2	0.13	89	6	7.1	13	12.0	49	12.0	10	9.15	<1	291	2.64	2.56	4.0
105J_1989_3051	0	<0.2	0.27	91	8	6.8	9	11.4	45	12.0	8	7.47	1	339	2.63	2.61	3.7
105J_1989_3052	0	<0.2	0.24	78	8	8.3	11	13.2	44	4.8	12	11.11	<1	362	2.80	2.72	3.8
105J_1989_3053	0	<0.2	0.42	78	9	7.5	12	13.5	35	5.1	10	9.72	1	331	2.64	2.60	3.6
105J_1989_3054	0	<0.2	0.30	100	6	7.1	12	11.8	34	11.0	9	9.43	<1	330	2.73	2.73	4.1
105J_1989_3055	0	<0.2	0.28	84	7	7.5	11	13.2	41	9.2	11	10.33	1	379	2.52	2.60	4.0
105J_1989_3056	0	0.7	1.50	95	11	13.5	17	15.1	83	24.0	34	39.98	2	403	2.86	3.13	4.2
105J_1989_3057	0	1.6	2.24	100	12	14.5	19	14.4	71	32.0	28	29.23	2	415	3.02	3.16	4.2
105J_1989_3058	0	0.4	1.66	96	9	10.4	13	14.1	74	17.0	20	24.29	1	431	1.99	1.94	2.8
105J_1989_3059	0	0.6	1.09	78	8	8.4	13	12.0	69	4.3	19	18.56	<1	362	2.01	1.88	2.9
105J_1989_3060	0	0.9	1.38	79	9	9.6	15	11.6	57	5.0	27	26.45	<1	406	2.17	1.97	2.8
105J_1989_3062	0	<0.2	0.91	79	9	8.5	12	12.0	42	7.2	21	21.49	<1	352	2.30	2.16	3.0
105J_1989_3063	1	<0.2	0.41	86	6	5.9	10	11.9	49	4.5	11	10.67	<1	355	2.07	2.01	2.9
105J_1989_3064	2	<0.2	0.44	84	7	6.2	10	12.8	42	4.7	11	11.30	<1	361	1.99	2.05	2.6
105J_1989_3065	0	<0.2	0.36	95	7	7.2	15	11.9	35	5.9	8	8.09	<1	361	2.47	2.58	4.8
105J_1989_3067	0	<0.2	0.38	90	6	7.1	14	11.6	39	5.1	9	8.62	1	312	2.43	2.55	4.4
105J_1989_3068	0	<0.2	0.19	100	7	7.8	14	11.7	22	9.0	8	6.95	2	296	2.76	2.86	5.0
105J_1989_3069	0	0.3	0.55	79	6	4.8	8	6.3	30	6.8	11	10.91	<1	328	1.53	1.36	2.2
105J_1989_3070	0	0.3	0.72	97	6	5.5	7	6.8	35	10.0	11	11.96	1	330	1.91	1.76	2.5
105J_1989_3071	0	<0.2	0.38	110	6	5.0	9	7.4	42	8.9	9	10.44	1	379	1.91	1.97	3.2
105J_1989_3072	0	1.0	1.67	110	8	8.0	12	14.4	69	16.0	37	36.77	3	427	2.46	2.29	3.1
105J_1989_3073	0	2.4	2.60	89	8	8.8	12	15.8	94	8.0	29	27.03	2	480	1.80	1.94	2.6
105J_1989_3074	0	5.6	5.64	94	10	12.2	15	19.2	77	10.0	52	54.87	1	509	2.14	2.37	3.3
105J_1989_3075	0	<0.2	0.28	83	7	9.7	13	12.8	33	17.0	10	10.28	1	537	3.00	3.30	3.9
105J_1989_3076	0	1.7	2.06	60	10	11.4	14	13.8	64	6.4	36	35.73	<1	413	3.37	3.14	3.8
105J_1989_3077	0	5.2	5.27	67	8	8.7	11	12.7	69	4.0	45	44.28	1	529	1.74	1.81	2.5
105J_1989_3078	0	4.7	5.11	63	6	7.7	11	13.5	59	6.9	38	38.35	<1	513	1.98	1.85	2.7
105J_1989_3079	0	0.4	0.82	57	5	4.4	7	9.2	47	3.6	21	19.08	<1	455	1.33	1.20	1.8
105J_1989_3080	0	0.6	1.10	61	7	5.6	8	9.4	42	3.4	13	12.40	<1	351	2.88	2.71	3.2
105J_1989_3082	0	1.9	2.36	73	10	12.8	15	26.8	91	4.9	61	62.65	<1	764	2.44	2.84	3.5
105J_1989_3083	0	1.0	1.52	55	7	6.5	8	19.5	79	3.7	69	65.68	1	694	1.78	1.74	2.1
105J_1989_3084	1	1.0	1.49	61	8	9.5	11	22.3	72	4.3	64	60.97	<1	730	2.50	2.26	2.4

Unique ID	Rep Stat	Ga ICP-MS ppm 0.2	Hf INAA ppm 1	Hg CV-AAS ppb 10	Hg ICP-MS ppb 5	K ICP-MS % 0.01	La ICP-MS ppm 0.5	La INAA ppm 2	LOI GRAV pct 1.0	Lu INAA ppm 0.2	Mg ICP-MS % 0.01	Mn AAS ppm 5	Mn ICP-MS ppm 1	Mo AAS ppm 2	Mo ICP-MS ppm 0.01	Mo INAA ppm 1
105J_1989_3049	0	6.5	6	66	72	0.10	30.9	47	10.7	<0.2	0.68	595	767	<2	0.69	<1
105J_1989_3050	0	5.3	9	51	39	0.08	19.4	39	12.1	<0.2	0.52	461	532	<2	0.76	2
105J_1989_3051	0	5.3	12	70	60	0.11	27.0	44	6.6	<0.2	0.61	370	462	<2	0.40	<1
105J_1989_3052	0	5.7	7	72	72	0.10	23.7	36	7.4	<0.2	0.53	299	380	<2	0.83	<1
105J_1989_3053	0	5.4	9	68	103	0.11	27.5	41	9.5	<0.2	0.57	443	557	<2	0.64	<1
105J_1989_3054	0	5.1	10	76	76	0.09	27.6	47	8.7	<0.2	0.59	376	478	<2	0.52	<1
105J_1989_3055	0	5.3	8	34	35	0.14	20.6	45	5.4	<0.2	0.56	336	443	<2	0.79	<1
105J_1989_3056	0	3.7	6	114	138	0.14	18.6	45	9.4	<0.2	0.38	466	622	4	3.12	2
105J_1989_3057	0	4.1	12	114	101	0.10	28.3	49	9.8	<0.2	0.45	728	904	3	2.77	<1
105J_1989_3058	0	3.0	8	76	70	0.09	15.2	46	8.9	<0.2	0.31	386	567	<2	1.46	<1
105J_1989_3059	0	2.5	6	80	85	0.07	11.5	39	6.1	<0.2	0.29	848	974	<2	0.92	<1
105J_1989_3060	0	2.6	6	114	115	0.07	14.3	40	7.5	<0.2	0.28	713	764	3	2.83	3
105J_1989_3062	0	3.2	6	91	83	0.09	17.8	38	5.6	<0.2	0.39	409	510	<2	1.36	<1
105J_1989_3063	1	5.2	8	95	88	0.10	21.9	42	5.5	<0.2	0.46	196	256	<2	0.61	<1
105J_1989_3064	2	5.1	8	103	92	0.10	21.9	39	5.9	<0.2	0.46	199	267	<2	0.66	<1
105J_1989_3065	0	6.4	14	46	38	0.10	24.3	45	8.5	<0.2	0.63	376	492	<2	0.54	<1
105J_1989_3067	0	6.4	15	80	44	0.11	26.0	43	7.4	<0.2	0.60	374	475	<2	0.65	<1
105J_1989_3068	0	6.3	13	114	112	0.12	29.2	48	7.0	<0.2	0.67	244	326	<2	0.54	<1
105J_1989_3069	0	2.4	5	49	46	0.08	21.4	40	6.2	<0.2	0.20	286	334	<2	0.63	1
105J_1989_3070	0	2.6	8	49	43	0.08	30.2	48	8.3	<0.2	0.22	433	498	<2	0.65	<1
105J_1989_3071	0	3.2	8	30	29	0.08	36.9	57	6.0	<0.2	0.31	213	287	<2	0.60	<1
105J_1989_3072	0	4.0	3	239	227	0.15	53.6	66	20.1	<0.2	0.33	334	360	<2	1.35	<1
105J_1989_3073	0	2.8	8	53	45	0.09	18.7	44	7.5	<0.2	0.58	424	541	4	3.27	3
105J_1989_3074	0	3.4	6	61	71	0.13	25.3	46	8.7	<0.2	0.55	384	479	5	4.13	4
105J_1989_3075	0	6.0	7	23	20	0.07	29.7	41	7.2	<0.2	0.62	545	708	<2	0.66	<1
105J_1989_3076	0	2.8	4	319	337	0.11	6.7	29	15.0	<0.2	0.25	3325	2618	<2	1.13	<1
105J_1989_3077	0	2.2	5	133	110	0.09	10.7	36	4.8	<0.2	0.35	353	419	3	2.52	3
105J_1989_3078	0	2.5	4	114	120	0.10	14.5	33	9.1	<0.2	0.31	614	652	4	4.11	4
105J_1989_3079	0	2.3	5	110	98	0.09	15.7	33	11.0	<0.2	0.31	164	176	<2	0.68	<1
105J_1989_3080	0	2.8	4	163	119	0.09	12.7	27	19.8	<0.2	0.31	3850	2875	<2	0.88	1
105J_1989_3082	0	3.7	4	152	150	0.12	17.5	40	10.6	<0.2	0.88	434	554	3	2.66	2
105J_1989_3083	0	3.0	3	213	244	0.13	15.9	30	13.8	<0.2	0.45	133	156	<2	1.40	1
105J_1989_3084	1	3.5	3	247	270	0.13	15.8	31	17.3	<0.2	0.60	228	259	<2	1.71	2

Unique ID	Rep Stat	Na ICP-MS % 0.001	Na INAA pct 0.02	Ni AAS ppm 2	Ni ICP-MS ppm 0.1	P ICP-MS % 0.001	Pb AAS ppm 2	Pb ICP-MS ppm 0.01	Rb INAA ppm 5	S ICP-MS % 0.01	Sb HY-AAS ppm 0.2	Sb ICP-MS ppm 0.02	Sb INAA ppm 0.1	Sc ICP-MS ppm 0.1	Sc INAA ppm 0.2	Se ICP-MS ppm 0.1
105J_1989_3049	0	0.022	1.40	5	7.2	0.063	16	14.62	120	0.05	1.9	1.39	2.7	6.5	19.0	0.7
105J_1989_3050	0	0.017	1.40	6	7.4	0.067	15	13.73	120	0.07	1.3	0.67	2.0	3.0	16.0	0.2
105J_1989_3051	0	0.031	1.30	4	5.5	0.065	14	11.38	120	0.03	1.0	0.66	1.8	6.2	16.0	0.5
105J_1989_3052	0	0.036	1.30	7	8.2	0.073	12	10.04	100	0.04	0.7	0.32	1.2	5.9	14.0	0.4
105J_1989_3053	0	0.037	1.20	8	8.5	0.073	12	11.04	120	0.05	0.8	0.42	1.5	6.4	15.0	0.8
105J_1989_3054	0	0.026	1.30	6	6.4	0.067	16	12.60	130	0.05	1.2	0.72	2.2	5.9	17.0	0.8
105J_1989_3055	0	0.022	1.50	8	9.6	0.060	14	11.05	130	0.03	1.0	0.56	2.0	5.0	17.0	0.2
105J_1989_3056	0	0.012	0.73	41	45.5	0.080	16	16.70	140	0.08	3.1	1.56	4.5	4.1	14.0	2.8
105J_1989_3057	0	0.009	0.84	47	49.0	0.097	19	17.21	150	0.06	3.0	1.46	3.9	4.1	16.0	2.1
105J_1989_3058	0	0.007	0.77	19	21.9	0.096	13	13.70	130	0.05	2.2	1.03	2.9	1.7	11.0	1.3
105J_1989_3059	0	0.010	0.78	22	21.3	0.073	12	10.75	96	0.04	1.0	0.59	1.8	1.7	10.0	1.0
105J_1989_3060	0	0.010	0.84	29	27.9	0.092	13	11.73	100	0.06	2.0	1.25	3.1	2.2	10.0	1.3
105J_1989_3062	0	0.016	0.81	20	20.5	0.078	13	12.14	100	0.04	1.5	1.09	2.4	3.4	11.0	1.0
105J_1989_3063	1	0.026	1.30	11	11.7	0.083	10	8.41	110	0.03	0.5	0.36	1.4	3.8	14.0	0.5
105J_1989_3064	2	0.028	1.10	11	12.1	0.085	12	8.53	100	0.04	0.6	0.37	1.3	4.0	12.0	0.5
105J_1989_3065	0	0.064	1.50	5	5.8	0.065	13	10.31	99	0.05	0.9	0.34	1.2	5.7	22.7	0.3
105J_1989_3067	0	0.063	1.40	6	6.8	0.065	13	10.10	95	0.04	0.6	0.35	1.1	5.5	21.3	0.6
105J_1989_3068	0	0.040	1.40	5	5.2	0.070	13	10.19	100	0.03	0.4	0.20	1.0	6.4	23.0	0.4
105J_1989_3069	0	0.015	1.50	7	8.2	0.061	14	13.04	110	0.02	1.2	0.58	1.9	1.8	9.3	0.9
105J_1989_3070	0	0.012	1.40	9	9.8	0.064	17	16.94	120	0.05	1.3	0.62	2.2	2.2	10.0	0.9
105J_1989_3071	0	0.011	1.60	7	7.9	0.070	20	19.20	130	0.03	2.0	1.17	3.5	2.3	12.0	0.5
105J_1989_3072	0	0.018	0.89	26	26.1	0.103	19	17.19	120	0.10	1.1	0.64	1.8	4.0	13.0	2.2
105J_1989_3073	0	0.007	0.76	38	38.6	0.120	18	16.57	99	0.05	2.4	1.52	3.6	2.1	11.0	1.9
105J_1989_3074	0	0.010	0.80	46	50.5	0.163	17	16.33	92	0.07	2.5	1.64	3.9	2.2	11.0	2.3
105J_1989_3075	0	0.010	1.00	6	5.9	0.082	21	20.42	230	0.02	1.2	0.43	3.0	4.7	16.0	0.4
105J_1989_3076	0	0.010	0.72	39	40.5	0.078	13	12.51	110	0.09	1.1	0.46	1.5	3.2	10.0	1.8
105J_1989_3077	0	0.005	0.48	32	32.8	0.128	16	15.78	81	0.08	2.1	1.44	3.5	2.3	8.5	1.8
105J_1989_3078	0	0.008	0.58	39	38.6	0.115	13	12.82	96	0.04	20.4	1.63	3.5	2.6	10.0	2.1
105J_1989_3079	0	0.014	0.89	17	15.5	0.088	10	8.57	88	0.06	0.7	0.63	1.5	2.3	7.7	1.1
105J_1989_3080	0	0.018	0.83	14	14.0	0.097	12	9.07	70	0.14	0.7	0.53	1.2	2.3	7.2	2.2
105J_1989_3082	0	0.006	0.53	45	47.7	0.226	14	12.14	91	0.10	1.7	1.33	2.6	2.9	11.0	1.8
105J_1989_3083	0	0.006	0.42	31	30.4	0.191	13	9.71	76	0.09	1.6	1.30	2.6	2.8	8.8	2.2
105J_1989_3084	1	0.008	0.50	36	35.9	0.182	13	12.45	84	0.13	1.1	0.83	1.8	3.8	10.0	2.1

Unique ID	Rep Stat	Sm INAA	Sn AAS	Sr ICP-MS	Ta INAA	Tb INAA	Te ICP-MS	Th ICP-MS	Th INAA	Ti ICP-MS	Tl ICP-MS	U ICP-MS	U INAA	U NADNC	V AAS	V ICP-MS
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.5	0.5	0.5	0.02	0.1	0.2	0.001	0.02	0.1	0.2	0.5	5	2
105J_1989_3049	0	8.1	1	47.2	1.1	1.4	<0.02	4.4	13.0	0.030	0.13	3.0	5.6	5.2	42	51
105J_1989_3050	0	6.2	2	34.9	1.1	1.0	<0.02	1.5	13.0	0.020	0.11	2.4	5.3	4.7	36	36
105J_1989_3051	0	7.1	3	58.5	1.5	1.3	<0.02	5.1	14.0	0.026	0.09	2.7	5.8	5.5	37	39
105J_1989_3052	0	6.6	5	54.6	1.0	1.2	<0.02	3.1	11.0	0.037	0.11	3.4	6.1	5.6	61	50
105J_1989_3053	0	7.6	4	78.7	1.5	1.5	<0.02	4.4	13.0	0.032	0.10	2.6	5.8	4.8	58	40
105J_1989_3054	0	7.8	5	51.1	1.4	1.3	<0.02	4.5	15.0	0.027	0.10	2.7	5.8	5.0	29	38
105J_1989_3055	0	7.0	5	39.6	1.4	1.1	<0.02	5.4	14.0	0.038	0.08	1.7	4.9	3.9	45	41
105J_1989_3056	0	7.8	4	43.4	1.3	1.2	<0.02	3.4	13.0	0.009	0.35	2.6	5.9	5.2	43	53
105J_1989_3057	0	8.9	4	38.0	1.2	1.3	0.03	3.0	13.0	0.011	0.35	3.5	6.9	6.1	62	67
105J_1989_3058	0	7.4	4	38.2	1.2	1.0	<0.02	0.8	12.0	0.005	0.30	1.1	4.5	4.1	24	34
105J_1989_3059	0	6.3	3	30.5	1.1	0.8	<0.02	2.2	10.0	0.006	0.12	1.2	4.1	3.7	40	29
105J_1989_3060	0	6.5	3	43.3	1.2	1.0	0.02	2.1	10.0	0.013	0.14	1.7	4.4	3.8	32	33
105J_1989_3062	0	6.3	3	39.4	1.1	1.0	<0.02	4.0	11.0	0.021	0.13	1.6	4.2	3.8	37	35
105J_1989_3063	1	7.1	3	61.9	1.4	1.3	<0.02	4.4	12.0	0.062	0.09	1.6	4.9	4.2	25	32
105J_1989_3064	2	7.2	3	61.5	1.3	1.2	<0.02	4.3	13.0	0.063	0.10	1.7	5.1	4.3	25	34
105J_1989_3065	0	8.5	3	78.4	1.4	1.2	<0.02	4.0	13.0	0.089	0.10	2.2	5.4	4.2	49	44
105J_1989_3067	0	7.8	3	71.0	1.5	1.1	<0.02	4.4	12.0	0.085	0.09	2.0	5.0	4.4	45	44
105J_1989_3068	0	8.2	3	96.2	1.6	1.2	<0.02	5.1	13.0	0.065	0.09	2.7	5.8	5.1	51	46
105J_1989_3069	0	6.2	2	23.1	1.0	1.1	<0.02	3.1	12.0	0.011	0.11	1.6	4.7	4.2	30	19
105J_1989_3070	0	7.3	3	27.8	1.2	1.2	<0.02	4.7	15.0	0.006	0.12	3.4	6.8	6.5	21	19
105J_1989_3071	0	8.2	2	31.2	1.3	1.2	<0.02	6.3	16.0	0.013	0.08	1.9	5.1	4.4	30	22
105J_1989_3072	0	10.4	3	73.6	0.8	1.8	0.03	3.5	11.0	0.004	0.29	7.4	10.0	9.6	42	34
105J_1989_3073	0	6.9	2	39.0	1.1	1.2	0.03	2.0	11.0	0.009	0.23	1.8	5.7	5.1	36	43
105J_1989_3074	0	7.7	3	52.4	1.3	1.3	0.05	1.7	12.0	0.011	0.25	3.1	6.5	5.7	74	79
105J_1989_3075	0	7.5	4	21.5	2.2	1.3	<0.02	6.4	15.0	0.016	0.14	2.6	5.6	5.3	52	38
105J_1989_3076	0	5.9	3	67.8	1.0	0.8	0.03	1.8	10.0	0.005	0.21	1.4	4.1	3.8	32	29
105J_1989_3077	0	5.6	<1	57.0	1.0	0.9	0.04	3.1	9.1	0.007	0.14	1.7	5.1	4.3	52	42
105J_1989_3078	0	5.3	2	50.0	0.9	0.9	0.05	2.4	8.7	0.007	0.17	2.7	5.8	5.0	51	47
105J_1989_3079	0	4.7	3	60.1	0.8	0.8	<0.02	3.3	8.7	0.020	0.16	1.2	3.7	3.4	31	31
105J_1989_3080	0	4.0	3	71.7	0.8	0.6	0.02	2.5	8.0	0.018	0.14	1.5	3.4	3.5	35	31
105J_1989_3082	0	5.9	3	102.8	1.3	1.0	0.02	3.2	10.0	0.007	0.13	2.2	5.4	5.2	53	51
105J_1989_3083	0	4.3	3	89.9	1.2	0.8	0.02	2.8	7.2	0.005	0.15	3.0	6.0	5.6	52	69
105J_1989_3084	1	4.5	3	103.7	1.3	0.7	0.05	2.7	8.5	0.003	0.17	3.6	6.4	7.1	56	54

Unique ID	Rep Stat	W ICP-MS ppm 0.1	W INAA ppm 1	wt INAA g 0.01	Yb INAA ppm 2	Zn AAS ppm 2	Zn ICP-MS ppm 0.1
105J_1989_3049	0	0.2	1	34.13	5	74	76.7
105J_1989_3050	0	0.2	2	30.83	3	61	59.4
105J_1989_3051	0	<0.1	2	37.08	4	70	69.3
105J_1989_3052	0	<0.1	1	35.45	3	71	70.2
105J_1989_3053	0	<0.1	2	31.34	3	86	85.5
105J_1989_3054	0	0.2	3	35.89	4	71	70.0
105J_1989_3055	0	0.1	3	38.56	4	67	70.2
105J_1989_3056	0	0.1	2	29.46	3	300	346.9
105J_1989_3057	0	0.2	3	32.46	4	387	426.4
105J_1989_3058	0	0.2	2	32.24	4	113	124.3
105J_1989_3059	0	0.1	2	37.46	2	118	115.9
105J_1989_3060	0	0.1	2	39.72	3	185	193.2
105J_1989_3062	0	0.1	2	32.28	3	130	133.2
105J_1989_3063	1	0.2	1	35.94	3	79	80.7
105J_1989_3064	2	0.2	1	20.57	3	80	83.6
105J_1989_3065	0	0.2	2	35.28	4	69	71.1
105J_1989_3067	0	0.2	1	34.89	4	66	67.4
105J_1989_3068	0	0.2	2	40.33	4	66	65.8
105J_1989_3069	0	<0.1	<1	35.46	3	72	69.6
105J_1989_3070	0	<0.1	1	29.81	3	105	100.0
105J_1989_3071	0	0.1	1	42.87	4	69	73.2
105J_1989_3072	0	<0.1	<1	21.76	5	146	152.8
105J_1989_3073	0	<0.1	2	37.70	4	231	228.9
105J_1989_3074	0	0.1	2	33.35	4	358	396.0
105J_1989_3075	0	0.1	5	38.49	3	78	77.6
105J_1989_3076	0	<0.1	1	27.33	<2	151	151.2
105J_1989_3077	0	1.2	<1	44.33	3	278	299.4
105J_1989_3078	0	0.1	1	37.30	3	355	369.2
105J_1989_3079	0	0.1	<1	30.67	3	110	105.3
105J_1989_3080	0	<0.1	1	14.25	<2	130	125.2
105J_1989_3082	0	<0.1	1	33.93	3	291	320.6
105J_1989_3083	0	<0.1	<1	32.42	2	163	165.6
105J_1989_3084	1	<0.1	<1	13.52	2	209	206.4

Unique ID	Rep Stat	Ag AAS	Ag ICP-MS	Al ICP-MS	As HY-AAS	As ICP-MS	As INAA	Au INAA	Au1 INAA	Au1_wt -	B ICP-MS	Ba ICP-MS	Ba INAA	Bi ICP-MS	Br INAA	Ca ICP-MS
		ppm	ppb	%	ppm	ppm	ppm	ppb	ppb	g	ppm	ppm	ppm	ppm	ppm	%
		0.2	2	0.01	1	0.1	0.5	2	2	0.01	1	0.5	50	0.02	0.5	0.01
105J_1989_3085	2	0.4	499	1.37	4	8.5	10.0	7			4	511.8	2900	0.18	6.6	1.07
105J_1989_3087	0	<0.2	200	0.76	4	9.4	12.0	<2			5	749.8	2100	0.08	15.0	1.38
105J_1989_3088	0	<0.2	323	0.94	5	9.3	12.0	4			2	482.5	3200	0.17	3.1	0.64
105J_1989_3089	0	0.2	459	0.76	18	48.5	51.5	4			5	921.2	2500	0.10	10.0	1.01
105J_1989_3090	0	0.5	890	0.90	9	13.7	19.0	7			6	1125.9	3800	0.17	4.4	0.78
105J_1989_3091	0	0.8	1326	0.72	17	24.0	31.0	9			4	1387.5	5400	0.17	2.5	0.81
105J_1989_3092	0	0.2	810	1.19	11	16.1	20.0	11			4	939.6	4200	0.18	8.4	0.49
105J_1989_3093	0	0.5	670	0.97	14	19.2	24.0	14	13	35.20	4	1005.9	7440	0.23	4.8	0.53
105J_1989_3094	0	0.8	902	0.97	14	20.7	25.0	18	14	30.62	3	983.6	6770	0.21	7.4	0.57
105J_1989_3095	0	0.3	752	0.92	12	18.7	27.0	15	14	28.33	3	872.9	5640	0.18	8.0	0.44
105J_1989_3096	0	1.0	1095	1.02	9	15.5	20.0	9			7	1821.7	5940	0.17	7.4	1.19
105J_1989_3097	0	0.8	1703	0.92	11	16.4	21.0	11			5	1888.2	6480	0.21	6.7	0.66
105J_1989_3098	0	<0.2	770	0.80	10	13.7	18.0	8			6	1761.7	5920	0.14	12.0	0.50
105J_1989_3099	0	1.1	1720	0.92	11	16.3	22.0	10			5	1408.7	5220	0.17	6.6	0.65
105J_1989_3100	0	0.8	1137	1.01	8	11.5	16.0	14	15	24.65	7	623.6	3600	0.17	22.0	0.76
105J_1989_3102	0	1.0	1312	0.85	12	17.7	22.0	13	15	24.55	3	683.1	2900	0.20	8.5	0.62
105J_1989_3103	1	0.6	1111	1.29	8	13.4	16.0	17	14	4.25	5	777.0	3400	0.21	7.7	0.69
105J_1989_3104	2	0.8	901	1.20	8	12.1	15.0	17	12	19.49	4	769.6	4000	0.18	6.6	0.64
105J_1989_3105	0	1.3	1670	1.34	8	12.1	15.0	15	16	14.46	5	557.0	2400	0.17	11.0	0.58
105J_1989_3106	0	0.2	535	1.09	10	14.8	18.0	14	13	29.32	4	647.7	2500	0.17	6.2	0.45
105J_1989_3107	0	0.2	437	1.17	7	10.0	13.0	13			4	362.6	2700	0.17	6.9	0.57
105J_1989_3108	0	<0.2	168	0.83	2	4.4	6.0	<2			2	139.5	1100	0.18	28.0	0.68
105J_1989_3109	0	<0.2	504	1.23	7	11.2	13.0	14	12	28.61	4	526.2	2500	0.18	5.2	0.52
105J_1989_3110	0	<0.2	382	0.96	8	10.5	14.0	13			5	534.1	3000	0.16	4.1	0.45
105J_1989_3111	0	0.3	508	0.90	13	20.1	24.0	17	14	34.71	4	672.9	3600	0.18	3.5	0.42
105J_1989_3112	0	0.2	558	0.95	7	11.1	15.0	14	12	25.58	4	539.3	3100	0.17	5.8	0.58
105J_1989_3113	0	<0.2	319	0.59	10	13.7	17.0	4			5	746.7	3900	0.13	0.6	1.10
105J_1989_3114	0	<0.2	400	0.82	3	5.2	6.7	9			6	282.2	1600	0.11	5.2	1.81
105J_1989_3115	0	0.8	903	0.57	5	9.8	13.0	4			6	358.0	1800	0.13	8.3	2.01
105J_1989_3116	0	<0.2	431	1.00	5	9.3	11.0	8			2	338.2	2800	0.17	3.2	0.54
105J_1989_3117	0	<0.2	205	0.76	7	9.5	13.0	30	9	30.01	4	326.4	2400	0.14	2.3	0.72
105J_1989_3118	0	<0.2	234	0.79	9	11.9	15.0	5			3	419.3	2400	0.14	4.1	0.78
105J_1989_3120	0	<0.2	229	0.88	10	17.9	20.0	8			3	475.4	2300	0.13	5.1	0.81

Unique ID	Rep Stat	Cd AAS	Cd ICP-MS	Ce INAA	Co AAS	Co ICP-MS	Co INAA	Cr ICP-MS	Cr INAA	Cs INAA	Cu AAS	Cu ICP-MS	Eu INAA	F ISE	Fe AAS	Fe ICP-MS	Fe INAA
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	pct	%	pct
		0.2	0.01	5	2	0.1	5	0.5	20	0.5	2	0.01	1	20	0.02	0.01	0.2
105J_1989_3085	2	1.4	1.85	61	10	10.2	11	23.5	64	5.0	61	59.54	<1	696	2.56	2.35	2.7
105J_1989_3087	0	0.2	1.22	35	7	6.4	9	10.9	31	2.7	22	21.67	<1	442	7.42	7.43	8.1
105J_1989_3088	0	0.7	1.19	75	9	9.4	11	15.5	78	5.8	39	40.54	1	740	2.02	2.15	2.7
105J_1989_3089	0	1.4	2.23	31	9	7.8	10	13.8	34	2.5	33	35.72	<1	421	5.96	5.79	7.0
105J_1989_3090	0	1.8	2.51	54	8	8.5	10	18.3	84	4.3	61	65.94	<1	583	2.57	2.44	3.2
105J_1989_3091	0	9.6	11.52	64	12	12.1	15	18.3	110	4.2	98	111.32	<1	775	2.01	2.19	2.7
105J_1989_3092	0	7.6	8.33	66	17	18.0	22	20.6	88	4.2	71	74.70	1	576	3.52	3.75	4.7
105J_1989_3093	0	3.7	4.88	61	13	14.5	18	19.5	100	5.0	84	95.32	2	559	2.95	3.20	4.2
105J_1989_3094	0	7.5	9.75	67	14	15.2	18	20.1	120	4.8	112	125.10	1	661	2.68	2.98	3.9
105J_1989_3095	0	5.9	5.26	62	16	15.1	19	19.2	120	5.5	82	79.98	2	675	3.00	2.87	4.1
105J_1989_3096	0	7.6	8.21	61	12	11.0	12	25.3	120	4.7	87	89.11	2	498	2.91	2.50	3.1
105J_1989_3097	0	15.5	17.07	63	11	12.8	15	29.1	110	4.2	85	89.18	<1	624	2.23	2.36	2.8
105J_1989_3098	0	6.6	7.61	56	10	8.8	11	20.3	80	3.7	66	69.21	1	557	2.02	2.11	2.3
105J_1989_3099	0	11.6	14.05	66	10	9.6	11	26.6	96	5.2	80	85.22	<1	588	1.89	2.05	2.6
105J_1989_3100	0	13.4	23.42	70	12	11.2	14	22.5	81	5.4	100	116.46	1	586	2.43	2.40	3.3
105J_1989_3102	0	7.8	9.72	55	9	8.8	10	21.9	110	4.5	86	95.08	<1	428	2.27	2.46	3.1
105J_1989_3103	1	8.1	9.77	45	12	12.9	13	24.9	110	5.3	109	125.10	<1	580	2.68	2.80	3.2
105J_1989_3104	2	6.0	8.52	53	11	13.0	13	22.0	86	5.1	98	117.16	1	639	2.57	2.69	3.5
105J_1989_3105	0	10.5	12.74	36	11	9.9	12	21.1	88	9.3	88	92.05	<1	537	2.55	2.36	3.3
105J_1989_3106	0	2.9	3.93	49	16	19.5	22	17.1	67	4.9	70	75.59	<1	510	2.77	2.94	3.6
105J_1989_3107	0	0.8	1.55	61	13	13.0	13	20.5	57	3.9	79	79.64	<1	593	2.92	3.08	3.6
105J_1989_3108	0	<0.2	0.68	83	10	7.8	8	10.6	45	4.0	21	22.80	<1	309	1.83	1.67	2.4
105J_1989_3109	0	2.2	3.20	49	16	18.0	16	19.8	59	4.5	144	161.96	<1	562	1.97	2.16	2.4
105J_1989_3110	0	1.8	2.83	57	14	13.9	17	17.7	77	4.7	68	71.88	<1	797	2.11	2.22	2.9
105J_1989_3111	0	2.0	2.97	48	14	14.6	16	19.1	85	5.9	67	80.45	<1	499	2.26	2.44	3.1
105J_1989_3112	0	1.5	2.24	55	10	10.9	14	18.4	100	5.6	61	64.67	<1	576	2.09	2.25	3.1
105J_1989_3113	0	1.6	2.22	65	7	8.0	10	13.3	72	2.7	47	50.85	<1	703	1.55	1.59	2.3
105J_1989_3114	0	5.2	5.56	39	11	11.4	12	14.0	59	3.6	74	77.34	<1	534	1.53	1.75	2.3
105J_1989_3115	0	5.7	6.75	27	22	23.7	24	10.3	46	4.6	60	62.10	<1	304	2.37	2.91	3.5
105J_1989_3116	0	0.3	1.61	72	11	13.3	14	18.4	75	4.2	42	78.68	<1	584	2.09	2.93	2.9
105J_1989_3117	0	0.3	1.15	83	9	9.5	11	12.5	60	3.0	27	27.45	<1	563	1.84	1.89	2.7
105J_1989_3118	0	0.4	1.38	83	11	10.7	11	12.8	66	3.3	24	28.28	<1	555	2.05	2.20	2.9
105J_1989_3120	0	0.6	1.23	59	11	11.4	12	13.8	71	3.6	27	27.56	<1	457	2.69	2.82	3.6

Unique ID	Rep Stat	Ga ICP-MS ppm 0.2	Hf INAA ppm 1	Hg CV-AAS ppb 10	Hg ICP-MS ppb 5	K ICP-MS % 0.01	La ICP-MS ppm 0.5	La INAA ppm 2	LOI GRAV pct 1.0	Lu INAA ppm 0.2	Mg ICP-MS % 0.01	Mn AAS ppm 5	Mn ICP-MS ppm 1	Mo AAS ppm 2	Mo ICP-MS ppm 0.01	Mo INAA ppm 1
105J_1989_3085	2	3.7	3	247	265	0.14	17.1	30	17.6	<0.2	0.59	283	320	<2	1.86	<1
105J_1989_3087	0	2.0	3	103	112	0.08	8.9	22	28.7	<0.2	0.31	3225	2592	<2	2.18	1
105J_1989_3088	0	2.5	5	125	137	0.09	14.5	40	8.6	<0.2	0.38	205	277	3	1.88	2
105J_1989_3089	0	2.0	2	186	222	0.09	7.7	18	30.6	<0.2	0.24	1079	1166	11	14.65	15
105J_1989_3090	0	2.4	3	304	311	0.12	10.0	28	14.5	<0.2	0.28	855	948	6	5.00	6
105J_1989_3091	0	1.8	3	502	556	0.12	10.0	35	8.2	<0.2	0.28	681	891	22	21.56	25
105J_1989_3092	0	2.8	5	350	385	0.11	12.2	35	12.3	<0.2	0.30	3025	2837	8	7.96	8
105J_1989_3093	0	2.7	4	247	284	0.13	12.2	39	7.3	<0.2	0.33	638	904	6	6.93	7
105J_1989_3094	0	2.4	4	372	456	0.12	10.4	35	9.3	<0.2	0.29	1193	1727	6	6.43	8
105J_1989_3095	0	2.0	3	350	319	0.09	10.4	37	10.2	<0.2	0.23	501	563	7	6.11	6
105J_1989_3096	0	2.3	4	357	400	0.10	14.1	36	21.6	<0.2	0.31	905	893	9	10.50	11
105J_1989_3097	0	2.9	4	410	433	0.12	14.7	36	9.6	<0.2	0.32	655	812	11	10.29	11
105J_1989_3098	0	2.5	3	266	293	0.14	11.0	27	7.0	<0.2	0.29	695	864	8	7.66	8
105J_1989_3099	0	2.8	4	399	443	0.11	10.4	33	9.4	<0.2	0.24	646	888	8	8.34	10
105J_1989_3100	0	3.0	4	353	383	0.14	18.3	35	13.0	<0.2	0.49	476	553	9	8.65	11
105J_1989_3102	0	2.3	4	429	471	0.10	11.1	34	11.4	<0.2	0.28	355	492	12	12.91	16
105J_1989_3103	1	3.3	4	407	576	0.16	13.1	32	11.0	<0.2	0.40	658	836	6	6.14	7
105J_1989_3104	2	3.1	4	338	422	0.13	13.3	34	8.5	<0.2	0.38	670	920	5	5.20	6
105J_1989_3105	0	3.4	3	490	596	0.14	15.3	26	13.7	<0.2	0.48	1450	1497	6	5.76	7
105J_1989_3106	0	3.2	4	247	289	0.12	17.5	31	9.1	<0.2	0.49	7750	7247	5	5.58	6
105J_1989_3107	0	3.4	5	163	176	0.14	23.0	36	9.1	<0.2	0.55	435	541	4	3.40	4
105J_1989_3108	0	2.1	7	49	57	0.10	18.4	48	14.0	<0.2	0.22	353	349	<2	0.60	<1
105J_1989_3109	0	3.0	5	182	204	0.10	16.4	30	8.0	<0.2	0.35	2150	2199	4	3.36	4
105J_1989_3110	0	2.8	6	152	186	0.13	17.7	36	5.8	<0.2	0.34	1775	1900	4	3.76	5
105J_1989_3111	0	2.6	5	194	271	0.12	14.4	31	6.9	<0.2	0.31	1775	2025	5	4.76	6
105J_1989_3112	0	2.7	5	251	276	0.11	14.7	35	8.5	<0.2	0.38	803	1090	3	2.49	2
105J_1989_3113	0	1.8	5	125	135	0.11	13.5	38	3.5	<0.2	0.36	329	369	4	3.39	5
105J_1989_3114	0	2.5	3	144	154	0.10	13.7	27	32.8	<0.2	0.64	428	494	<2	1.94	3
105J_1989_3115	0	1.4	2	289	328	0.06	6.9	16	48.2	<0.2	0.27	1525	1413	<2	2.54	3
105J_1989_3116	0	3.1	5	137	182	0.11	19.1	45	8.4	<0.2	0.52	175	514	<2	3.21	2
105J_1989_3117	0	2.2	7	122	120	0.10	16.8	53	7.4	<0.2	0.34	299	352	<2	1.67	1
105J_1989_3118	0	2.3	7	125	121	0.11	16.7	48	8.2	<0.2	0.35	825	1012	<2	1.69	2
105J_1989_3120	0	2.6	5	115	129	0.11	15.1	40	11.2	<0.2	0.36	3075	2586	<2	1.19	<1

Unique ID	Rep Stat	Na ICP-MS % 0.001	Na INAA pct 0.02	Ni AAS ppm 2	Ni ICP-MS ppm 0.1	P ICP-MS % 0.001	Pb AAS ppm 2	Pb ICP-MS ppm 0.01	Rb INAA ppm 5	S ICP-MS % 0.01	Sb HY-AAS ppm 0.2	Sb ICP-MS ppm 0.02	Sb INAA ppm 0.1	Sc ICP-MS ppm 0.1	Sc INAA ppm 0.2	Se ICP-MS ppm 0.1
105J_1989_3085	2	0.009	0.49	36	35.6	0.177	15	12.83	89	0.12	1.3	0.79	1.7	3.9	10.0	2.3
105J_1989_3087	0	0.008	0.45	17	16.7	0.186	8	6.23	58	0.27	0.6	0.56	0.9	2.5	5.9	1.6
105J_1989_3088	0	0.006	0.39	27	29.1	0.214	13	12.75	95	0.11	1.8	1.46	3.1	3.3	11.0	1.5
105J_1989_3089	0	0.012	0.58	31	32.5	0.289	11	7.70	50	0.27	1.7	1.85	2.5	2.1	5.9	3.0
105J_1989_3090	0	0.007	0.44	53	54.3	0.233	14	13.16	88	0.12	3.1	2.72	5.0	2.8	8.8	7.2
105J_1989_3091	0	0.004	0.28	101	107.1	0.227	14	13.54	94	0.08	11.0	8.04	14.1	3.1	9.2	5.7
105J_1989_3092	0	0.006	0.47	149	155.4	0.202	14	14.32	87	0.11	3.4	2.85	4.7	3.0	10.0	3.7
105J_1989_3093	0	0.005	0.40	77	80.7	0.208	17	17.34	96	0.13	3.6	3.35	5.3	3.7	11.0	2.6
105J_1989_3094	0	0.005	0.34	110	123.6	0.251	17	18.29	86	0.14	3.9	3.10	5.4	3.4	10.0	3.5
105J_1989_3095	0	0.004	0.35	91	84.0	0.193	15	13.56	85	0.12	3.8	2.83	5.5	3.0	11.0	3.5
105J_1989_3096	0	0.007	0.55	109	106.5	0.180	14	11.60	82	0.15	7.0	4.93	7.7	4.0	11.0	4.6
105J_1989_3097	0	0.006	0.46	167	175.3	0.220	16	15.31	95	0.12	7.0	4.84	8.2	3.2	10.0	7.0
105J_1989_3098	0	0.006	0.30	102	102.4	0.167	11	11.50	80	0.12	5.0	3.36	6.1	2.4	6.9	3.2
105J_1989_3099	0	0.006	0.42	203	216.6	0.222	15	13.13	100	0.10	5.0	3.92	8.0	2.7	8.5	4.5
105J_1989_3100	0	0.007	0.50	152	164.7	0.189	16	15.55	95	0.14	5.0	4.43	7.4	2.5	9.3	4.3
105J_1989_3102	0	0.006	0.65	132	142.1	0.146	16	14.78	93	0.15	7.0	6.09	9.4	2.5	10.0	5.5
105J_1989_3103	1	0.006	0.39	81	92.9	0.207	15	14.98	94	0.13	3.7	2.69	4.5	3.3	10.0	3.4
105J_1989_3104	2	0.005	0.46	80	87.5	0.199	13	13.77	92	0.11	3.0	2.49	4.2	3.1	10.0	2.8
105J_1989_3105	0	0.006	0.45	150	154.1	0.158	14	11.31	110	0.09	3.8	2.59	4.5	2.6	10.0	4.9
105J_1989_3106	0	0.004	0.41	125	143.7	0.165	14	13.22	100	0.09	2.1	1.46	2.6	2.7	8.6	3.7
105J_1989_3107	0	0.005	0.38	44	44.4	0.155	15	14.01	95	0.08	1.7	1.28	2.4	3.4	10.0	2.1
105J_1989_3108	0	0.007	0.76	20	19.6	0.085	17	17.74	100	0.08	0.9	0.56	1.0	1.4	8.1	1.2
105J_1989_3109	0	0.004	0.40	137	154.7	0.166	27	27.96	80	0.06	2.1	1.38	2.6	3.3	8.0	1.7
105J_1989_3110	0	0.005	0.43	64	66.8	0.170	16	17.51	98	0.05	2.0	1.41	3.0	2.7	8.6	1.9
105J_1989_3111	0	0.004	0.33	71	76.5	0.162	14	13.82	88	0.07	2.7	2.14	3.8	2.7	8.7	2.5
105J_1989_3112	0	0.004	0.40	45	45.9	0.155	14	11.56	99	0.07	2.0	1.31	2.7	3.0	10.0	1.8
105J_1989_3113	0	0.003	0.32	32	33.1	0.266	12	12.22	84	0.14	2.7	2.31	4.0	2.1	7.6	1.9
105J_1989_3114	0	0.007	0.51	34	33.1	0.142	14	10.61	67	0.12	1.1	1.23	1.6	2.2	7.8	2.0
105J_1989_3115	0	0.006	0.36	63	65.3	0.132	11	9.80	59	0.61	1.8	2.20	2.4	2.4	7.6	12.4
105J_1989_3116	0	0.004	0.39	29	43.3	0.149	17	13.91	100	0.07	1.5	1.38	2.1	3.0	10.0	1.9
105J_1989_3117	0	0.004	0.41	23	23.6	0.214	12	11.32	89	0.05	1.3	0.92	1.8	2.0	8.6	0.9
105J_1989_3118	0	0.004	0.42	26	28.6	0.181	13	11.50	98	0.06	1.4	0.88	1.7	2.2	8.8	1.1
105J_1989_3120	0	0.005	0.40	23	24.5	0.151	13	11.23	91	0.09	1.3	0.72	1.4	2.2	8.4	1.0

Unique ID	Rep Stat	Sm INAA	Sn AAS	Sr ICP-MS	Ta INAA	Tb INAA	Te ICP-MS	Th ICP-MS	Th INAA	Ti ICP-MS	Tl ICP-MS	U ICP-MS	U INAA	U NADNC	V AAS	V ICP-MS
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.5	0.5	0.5	0.02	0.1	0.2	0.001	0.02	0.1	0.2	0.5	5	2
105J_1989_3085	2	4.5	2	105.0	1.2	0.8	0.02	2.8	8.7	0.004	0.18	3.8	6.7	6.8	54	52
105J_1989_3087	0	3.2	2	144.5	0.7	<0.5	0.03	1.9	5.5	0.004	0.12	2.1	4.4	4.0	42	35
105J_1989_3088	0	5.4	2	77.5	1.3	0.8	0.04	3.6	10.0	0.003	0.14	2.5	6.2	5.7	41	42
105J_1989_3089	0	2.8	3	86.1	0.5	<0.5	0.04	1.3	4.2	0.006	0.14	4.1	5.5	5.4	62	70
105J_1989_3090	0	4.2	2	93.1	0.8	0.8	0.07	1.7	6.7	0.004	0.23	4.8	7.6	7.1	66	103
105J_1989_3091	0	5.4	<1	110.9	0.8	1.0	0.14	1.5	7.4	0.003	0.52	9.3	14.0	12.1	114	164
105J_1989_3092	0	5.8	3	75.5	1.1	1.0	0.06	1.6	7.4	0.005	0.35	10.6	14.0	13.2	83	107
105J_1989_3093	0	6.2	3	83.6	1.3	1.0	0.11	2.3	8.7	0.004	0.22	4.7	7.9	7.2	66	93
105J_1989_3094	0	6.1	2	104.3	1.0	1.3	0.10	1.5	7.5	0.004	0.24	5.4	8.8	8.4	84	100
105J_1989_3095	0	6.1	2	73.6	1.3	1.1	0.08	1.6	7.8	0.003	0.26	3.5	7.6	11.8	64	82
105J_1989_3096	0	6.0	3	111.1	1.1	1.3	0.10	1.5	7.4	0.004	0.51	8.1	11.0	12.2	80	119
105J_1989_3097	0	5.9	3	111.2	1.1	1.1	0.11	1.5	8.3	0.007	0.56	8.9	12.0	11.9	138	193
105J_1989_3098	0	4.8	2	79.8	0.9	0.8	0.07	1.4	6.8	0.006	0.33	6.9	11.0	10.2	87	128
105J_1989_3099	0	5.8	4	88.8	0.9	1.1	0.09	1.1	8.5	0.005	0.54	8.3	14.0	11.6	134	192
105J_1989_3100	0	5.9	2	130.7	1.0	1.2	0.08	1.5	8.6	0.006	0.49	9.4	13.0	11.9	135	129
105J_1989_3102	0	6.1	2	80.1	1.1	1.2	0.14	0.9	8.1	0.006	0.58	12.0	15.0	14.2	106	161
105J_1989_3103	1	5.8	2	88.1	1.1	1.2	0.11	1.4	7.9	0.005	0.32	3.6	6.4	6.3	67	90
105J_1989_3104	2	6.1	3	82.2	1.4	0.8	0.08	1.3	8.6	0.005	0.26	3.3	6.5	6.2	61	79
105J_1989_3105	0	4.8	3	88.5	1.0	1.1	0.07	1.3	7.2	0.005	0.39	18.2	20.3	20.0	91	93
105J_1989_3106	0	5.3	3	85.2	1.1	0.8	0.08	2.7	8.3	0.006	0.22	4.3	7.0	6.9	43	53
105J_1989_3107	0	5.9	2	65.6	1.9	1.1	0.06	3.0	9.0	0.005	0.16	2.8	6.4	6.4	35	49
105J_1989_3108	0	6.8	2	47.0	1.4	1.0	0.02	3.8	13.0	0.004	0.08	3.4	6.0	5.8	21	19
105J_1989_3109	0	5.5	2	54.4	1.2	0.9	0.05	1.8	8.5	0.006	0.20	3.0	5.8	5.5	42	58
105J_1989_3110	0	6.3	2	53.5	1.6	0.9	0.07	2.3	9.3	0.006	0.17	2.1	5.7	5.0	39	56
105J_1989_3111	0	5.2	<1	67.9	1.4	0.9	0.09	2.1	7.9	0.004	0.18	3.1	5.9	6.9	50	65
105J_1989_3112	0	5.5	<1	82.3	1.8	1.0	0.05	2.2	8.5	0.004	0.17	2.0	5.4	4.7	44	49
105J_1989_3113	0	6.1	3	92.5	1.1	0.9	0.05	3.0	8.6	0.005	0.15	2.4	5.3	4.3	50	65
105J_1989_3114	0	3.8	3	87.8	0.9	0.7	0.04	1.2	6.6	0.005	0.11	1.5	3.3	3.4	40	37
105J_1989_3115	0	2.3	2	176.4	0.6	<0.5	0.03	1.8	5.0	0.003	0.32	14.5	15.0	16.0	31	27
105J_1989_3116	0	6.0	2	62.0	1.3	0.9	0.07	2.8	11.0	0.005	0.14	2.7	5.2	4.8	28	41
105J_1989_3117	0	7.0	2	72.1	1.4	0.9	0.03	4.2	12.0	0.004	0.10	1.6	4.9	4.9	33	33
105J_1989_3118	0	6.6	2	75.9	1.4	0.8	0.03	4.5	12.0	0.004	0.12	1.6	4.7	4.6	32	33
105J_1989_3120	0	5.5	3	82.8	1.2	1.0	0.03	3.8	10.0	0.003	0.12	1.4	3.8	4.0	37	37

Unique ID	Rep Stat	W ICP-MS ppm 0.1	W INAA ppm 1	wt INAA g 0.01	Yb INAA ppm 2	Zn AAS ppm 2	Zn ICP-MS ppm 0.1
105J_1989_3085	2	<0.1	<1	20.82	3	203	201.4
105J_1989_3087	0	<0.1	<1	23.95	<2	116	115.9
105J_1989_3088	0	<0.1	2	32.55	2	146	170.0
105J_1989_3089	0	0.1	2	23.04	<2	193	194.0
105J_1989_3090	0	<0.1	2	30.55	2	253	260.5
105J_1989_3091	0	0.1	<1	40.88	4	875	885.7
105J_1989_3092	0	0.1	2	29.80	3	707	681.9
105J_1989_3093	0	<0.1	2	41.30	3	384	427.0
105J_1989_3094	0	<0.1	2	36.76	4	560	598.5
105J_1989_3095	0	<0.1	2	37.78	3	396	377.2
105J_1989_3096	0	<0.1	<1	27.26	3	863	772.2
105J_1989_3097	0	0.1	2	32.56	3	2090	2218.4
105J_1989_3098	0	0.1	2	30.02	2	952	950.0
105J_1989_3099	0	0.2	2	35.80	<2	2310	2624.3
105J_1989_3100	0	<0.1	2	29.83	3	1870	1979.7
105J_1989_3102	0	<0.1	2	32.89	3	1510	1679.0
105J_1989_3103	1	<0.1	<1	16.39	3	583	591.9
105J_1989_3104	2	<0.1	1	30.23	3	492	537.8
105J_1989_3105	0	<0.1	<1	24.01	3	1530	1578.9
105J_1989_3106	0	<0.1	2	34.04	3	367	403.9
105J_1989_3107	0	<0.1	<1	19.08	3	180	194.8
105J_1989_3108	0	<0.1	1	32.39	<2	79	85.9
105J_1989_3109	0	<0.1	<1	37.74	<2	395	445.3
105J_1989_3110	0	0.1	1	41.52	3	238	266.1
105J_1989_3111	0	<0.1	<1	36.74	3	266	299.0
105J_1989_3112	0	<0.1	1	38.59	3	176	191.1
105J_1989_3113	0	<0.1	<1	49.00	3	162	183.7
105J_1989_3114	0	<0.1	<1	15.38	<2	209	205.2
105J_1989_3115	0	<0.1	<1	22.66	<2	277	289.3
105J_1989_3116	0	<0.1	<1	36.16	3	144	189.7
105J_1989_3117	0	<0.1	2	35.36	<2	126	129.4
105J_1989_3118	0	<0.1	2	37.01	2	132	143.6
105J_1989_3120	0	0.8	2	30.63	<2	128	136.9

Unique ID	Rep Stat	Ag AAS	Ag ICP-MS	Al ICP-MS	As HY-AAS	As ICP-MS	As INAA	Au INAA	Au1 INAA	Au1_wt -	B ICP-MS	Ba ICP-MS	Ba INAA	Bi ICP-MS	Br INAA	Ca ICP-MS
		ppm	ppb	%	ppm	ppm	ppm	ppb	ppb	g	ppm	ppm	ppm	ppm	ppm	%
		0.2	2	0.01	1	0.1	0.5	2	2	0.01	1	0.5	50	0.02	0.5	0.01
105J_1989_3122	1	<0.2	465	1.12	3	8.0	10.0	7			3	469.3	2100	0.14	4.2	0.85
105J_1989_3123	2	0.5	464	1.12	4	9.7	12.0	7			4	480.5	2300	0.15	4.7	0.85
105J_1989_3124	0	<0.2	310	0.84	7	13.6	17.0	4			2	1078.6	3500	0.17	2.9	0.72
105J_1989_3125	0	<0.2	226	0.88	3	6.7	8.9	4			1	308.9	1600	0.16	2.6	0.57
105J_1989_3126	0	<0.2	160	0.81	3	5.3	7.0	4			1	289.1	1400	0.12	2.3	0.53
105J_1989_3127	0	<0.2	190	0.87	7	13.4	17.0	5			1	360.8	1500	0.19	3.6	0.59
105J_1989_3128	0	<0.2	105	0.85	9	18.8	22.0	11			<1	106.5	800	0.25	7.6	0.59
105J_1989_3129	0	<0.2	232	0.97	1	3.9	4.2	<2			<1	312.9	680	0.13	13.0	0.73
105J_1989_3130	0	0.2	383	0.86	3	7.3	10.0	3			1	444.8	2100	0.17	12.0	0.90
105J_1989_3131	0	0.4	490	0.83	6	8.8	11.0	10			2	583.9	2500	0.15	6.2	0.53
105J_1989_3133	0	0.3	502	1.18	8	13.8	18.0	14	13	30.31	3	467.1	2100	0.17	10.0	0.53
105J_1989_3134	0	0.3	553	0.99	8	12.5	15.0	11			5	796.8	2600	0.18	8.2	0.48
105J_1989_3135	0	0.2	473	0.88	7	11.6	16.0	11			5	1023.6	3700	0.16	10.0	0.52
105J_1989_3136	0	0.4	568	1.11	4	7.9	9.2	9			2	746.7	2500	0.17	11.0	0.60
105J_1989_3137	0	0.3	563	1.25	2	5.8	6.6	7			2	273.7	950	0.26	19.0	1.28
105J_1989_3138	0	<0.2	70	1.00	4	6.3	9.2	<2			<1	121.1	920	0.20	3.9	0.28
105J_1989_3139	0	<0.2	117	1.26	3	5.1	8.1	4			<1	236.4	1100	0.27	4.2	0.31
105J_1989_3140	0	0.4	291	0.82	5	8.1	11.0	4			<1	396.6	1700	0.22	8.8	0.68
105J_1989_3143	1	0.2	92	0.76	12	17.9	20.0	9			<1	61.1	650	0.27	5.9	0.30
105J_1989_3144	2	<0.2	67	0.81	11	19.0	24.0	9			<1	63.8	710	0.26	3.7	0.30
105J_1989_3145	0	0.2	145	1.14	3	5.8	10.0	<2			<1	150.0	1000	0.24	5.2	0.19
105J_1989_3146	0	0.5	406	1.00	7	11.5	15.0	7			2	442.4	2200	0.16	5.3	0.54
105J_1989_3147	0	<0.2	136	1.07	3	5.7	7.7	<2			1	206.7	1200	0.17	6.2	0.58
105J_1989_3148	0	0.2	190	1.37	8	13.8	17.0	5			2	286.2	1800	0.13	4.9	0.90
105J_1989_3149	0	<0.2	186	1.71	6	9.0	11.0	14	6	28.97	1	416.8	1900	0.14	3.0	1.31
105J_1989_3150	0	<0.2	173	1.10	6	7.9	11.0	9			<1	369.1	2300	0.13	2.9	2.93
105J_1989_3151	0	0.2	461	0.89	14	26.7	31.0	7			1	349.4	1800	0.19	4.5	0.97
105J_1989_3152	0	0.2	312	0.79	8	12.0	15.0	7			1	1102.2	3400	0.22	4.4	0.84
105J_1989_3153	0	<0.2	217	0.87	6	9.6	12.0	6			2	410.2	1900	0.15	1.6	0.70
105J_1989_3154	0	<0.2	134	0.80	3	5.0	6.6	11			1	332.6	1500	0.10	2.0	0.62
105J_1989_3155	0	0.3	269	0.89	5	9.1	11.0	8			2	414.4	1800	0.16	2.5	0.88
105J_1989_3156	0	<0.2	246	1.14	3	5.4	7.6	7			2	479.4	2100	0.14	6.3	0.96
105J_1989_3157	0	<0.2	225	0.82	3	4.4	6.6	6			1	277.2	1600	0.14	3.2	0.59

Unique ID	Rep Stat	Cd AAS	Cd ICP-MS	Ce INAA	Co AAS	Co ICP-MS	Co INAA	Cr ICP-MS	Cr INAA	Cs INAA	Cu AAS	Cu ICP-MS	Eu INAA	F ISE	Fe AAS	Fe ICP-MS	Fe INAA
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	pct	%	pct
		0.2	0.01	5	2	0.1	5	0.5	20	0.5	2	0.01	1	20	0.02	0.01	0.2
105J_1989_3122	1	2.2	2.30	46	11	8.7	12	18.2	41	3.8	49	49.03	1	744	2.55	2.30	2.7
105J_1989_3123	2	2.2	2.29	52	9	9.2	11	18.4	67	4.0	52	49.54	1	663	2.99	2.60	3.2
105J_1989_3124	0	1.5	1.74	79	11	10.5	15	14.4	63	4.3	32	34.04	1	543	2.41	2.49	3.5
105J_1989_3125	0	0.6	1.00	81	9	8.4	15	12.7	55	3.6	29	27.83	1	516	2.11	1.92	2.5
105J_1989_3126	0	0.4	0.80	100	7	6.2	11	26.9	50	3.4	18	22.90	1	460	1.83	1.64	2.2
105J_1989_3127	0	1.0	1.21	90	10	10.4	14	13.1	60	4.0	30	31.90	2	484	2.10	2.07	2.8
105J_1989_3128	0	0.3	0.45	98	9	10.4	13	11.1	54	4.8	23	23.20	1	378	2.70	2.42	3.2
105J_1989_3129	0	0.7	1.28	40	8	9.7	14	6.7	<20	2.1	12	12.08	<1	266	4.72	4.76	5.4
105J_1989_3130	0	1.6	1.84	49	10	9.5	15	11.7	54	4.8	36	34.05	1	390	2.97	2.60	3.5
105J_1989_3131	0	2.2	2.13	48	8	8.2	12	16.7	70	4.0	54	59.28	1	628	1.96	1.96	2.5
105J_1989_3133	0	1.3	1.44	36	12	13.0	20	19.4	55	5.2	72	82.08	1	736	3.66	4.22	4.9
105J_1989_3134	0	4.3	4.07	46	11	11.8	17	18.4	71	6.0	66	69.58	1	631	2.49	2.41	3.2
105J_1989_3135	0	5.2	5.00	45	12	13.3	18	18.1	76	4.7	62	66.21	<1	604	2.39	2.33	3.2
105J_1989_3136	0	2.4	2.78	54	11	10.4	15	22.1	76	6.2	52	54.74	2	650	2.36	2.31	3.1
105J_1989_3137	0	0.5	0.79	32	7	7.2	8	11.3	51	12.0	50	50.08	1	373	1.82	1.73	2.4
105J_1989_3138	0	<0.2	0.39	100	10	11.7	18	16.0	70	3.8	22	22.28	1	348	2.21	2.38	3.5
105J_1989_3139	0	<0.2	0.38	92	14	14.6	21	19.2	69	6.2	40	41.63	2	375	2.44	2.57	4.0
105J_1989_3140	0	1.1	1.54	77	13	13.3	19	11.8	52	5.2	41	40.84	1	540	2.65	2.52	3.5
105J_1989_3143	1	<0.2	0.20	100	8	9.0	12	9.1	46	3.9	18	17.52	<1	373	2.48	2.36	2.5
105J_1989_3144	2	<0.2	0.14	99	8	7.2	12	9.1	53	4.1	18	17.11	2	349	2.41	2.24	2.7
105J_1989_3145	0	<0.2	0.14	100	12	11.0	19	14.9	63	6.3	26	26.55	2	343	2.33	2.42	3.8
105J_1989_3146	0	2.4	2.68	68	8	9.9	13	19.0	60	3.6	38	37.93	<1	510	2.44	2.32	3.1
105J_1989_3147	0	<0.2	0.52	87	10	9.9	13	15.5	52	3.9	25	25.86	<1	419	2.28	2.22	2.8
105J_1989_3148	0	0.3	0.84	70	8	9.3	14	20.5	58	3.9	27	29.70	<1	643	2.45	2.43	3.4
105J_1989_3149	0	0.3	0.87	77	8	10.0	17	29.2	58	3.6	36	36.43	1	636	2.38	2.07	2.9
105J_1989_3150	0	0.9	1.39	70	8	8.9	14	18.3	74	4.9	42	42.02	2	724	2.53	2.35	3.5
105J_1989_3151	0	1.5	1.77	57	9	9.8	12	12.4	55	5.1	39	39.25	<1	591	2.48	2.18	3.0
105J_1989_3152	0	1.1	1.53	84	10	9.1	13	14.0	59	4.0	42	44.05	<1	708	2.14	2.11	2.9
105J_1989_3153	0	0.3	0.84	51	9	8.7	12	14.8	47	3.3	39	41.10	<1	674	2.06	1.99	2.6
105J_1989_3154	0	<0.2	0.55	85	8	6.9	11	12.7	43	2.9	25	24.05	2	657	1.63	1.56	2.2
105J_1989_3155	0	0.5	0.88	49	8	9.9	12	14.8	50	3.8	42	44.63	1	861	2.21	2.30	2.6
105J_1989_3156	0	0.8	1.10	57	12	10.2	14	17.4	58	3.9	39	38.32	1	760	2.29	2.17	2.5
105J_1989_3157	0	0.3	0.81	65	5	6.0	9	12.4	55	3.3	38	38.94	1	552	1.57	1.29	1.9

Unique ID	Rep Stat	Ga ICP-MS ppm 0.2	Hf INAA ppm 1	Hg CV-AAS ppb 10	Hg ICP-MS ppb 5	K ICP-MS % 0.01	La ICP-MS ppm 0.5	La INAA ppm 2	LOI GRAV pct 1.0	Lu INAA ppm 0.2	Mg ICP-MS % 0.01	Mn AAS ppm 5	Mn ICP-MS ppm 1	Mo AAS ppm 2	Mo ICP-MS ppm 0.01	Mo INAA ppm 1
105J_1989_3122	1	3.1	3	189	225	0.12	16.2	36	15.1	<0.2	0.57	378	381	<2	0.80	2
105J_1989_3123	2	3.0	4	189	218	0.13	16.3	40	15.6	<0.2	0.56	532	540	<2	0.83	2
105J_1989_3124	0	2.4	5	119	128	0.10	17.5	59	8.6	<0.2	0.31	869	1032	2	1.87	3
105J_1989_3125	0	2.5	6	91	90	0.09	14.4	58	7.7	<0.2	0.28	271	284	<2	0.76	2
105J_1989_3126	0	2.2	8	70	66	0.09	18.5	72	6.7	<0.2	0.25	234	264	<2	1.19	2
105J_1989_3127	0	2.4	7	77	83	0.10	17.3	65	8.0	<0.2	0.28	918	1039	<2	1.34	3
105J_1989_3128	0	2.2	7	56	57	0.07	14.0	67	10.8	<0.2	0.27	462	447	<2	0.45	2
105J_1989_3129	0	2.5	3	110	116	0.06	11.0	29	26.8	<0.2	0.15	4543	3383	<2	0.66	2
105J_1989_3130	0	2.1	4	150	166	0.09	8.8	34	17.6	<0.2	0.24	1296	1267	<2	1.45	3
105J_1989_3131	0	2.5	4	157	180	0.11	13.9	37	7.8	<0.2	0.36	376	421	2	2.70	4
105J_1989_3133	0	3.6	4	193	255	0.13	17.5	35	11.3	<0.2	0.60	1197	1614	5	5.06	6
105J_1989_3134	0	3.0	4	193	228	0.15	15.2	37	8.6	<0.2	0.44	1082	1267	2	4.03	5
105J_1989_3135	0	2.8	3	193	235	0.14	12.0	35	8.0	<0.2	0.38	1246	1443	3	4.84	7
105J_1989_3136	0	3.2	4	193	222	0.14	17.5	40	11.6	<0.2	0.42	484	558	2	2.58	5
105J_1989_3137	0	2.6	2	163	180	0.17	19.7	28	31.4	<0.2	0.19	397	344	<2	0.73	3
105J_1989_3138	0	2.7	10	42	27	0.07	24.4	75	3.8	<0.2	0.42	500	580	<2	0.56	2
105J_1989_3139	0	3.6	7	49	35	0.08	16.4	62	9.6	<0.2	0.52	779	840	<2	1.01	3
105J_1989_3140	0	2.2	5	98	125	0.09	11.7	53	12.8	<0.2	0.25	1263	1335	<2	1.41	3
105J_1989_3143	1	1.8	10	49	53	0.06	16.2	71	6.2	<0.2	0.23	166	200	<2	0.31	1
105J_1989_3144	2	2.0	9	42	42	0.08	18.4	72	7.0	<0.2	0.23	102	122	<2	0.29	<1
105J_1989_3145	0	2.7	9	63	65	0.05	13.8	72	7.8	<0.2	0.39	461	523	<2	0.77	3
105J_1989_3146	0	3.0	6	142	174	0.10	17.5	53	7.7	<0.2	0.53	1082	1249	2	3.49	5
105J_1989_3147	0	3.0	8	63	71	0.09	17.3	62	11.7	<0.2	0.51	416	448	<2	0.86	2
105J_1989_3148	0	3.9	5	63	61	0.10	18.0	49	11.5	<0.2	0.94	467	573	<2	0.53	2
105J_1989_3149	0	5.1	4	59	65	0.20	13.3	60	13.4	<0.2	1.08	344	394	<2	0.66	2
105J_1989_3150	0	3.0	4	70	87	0.08	18.3	54	6.6	<0.2	0.95	218	237	2	1.72	3
105J_1989_3151	0	2.3	4	98	115	0.10	12.9	40	16.4	<0.2	0.27	335	319	<2	1.03	3
105J_1989_3152	0	2.2	5	98	103	0.10	16.0	60	8.4	<0.2	0.32	262	312	2	3.02	4
105J_1989_3153	0	2.5	5	101	115	0.12	16.3	41	6.6	<0.2	0.40	216	273	2	2.33	3
105J_1989_3154	0	2.4	8	109	107	0.11	15.3	59	6.3	<0.2	0.41	187	227	<2	1.24	3
105J_1989_3155	0	2.5	4	198	200	0.13	18.3	40	7.4	<0.2	0.49	325	386	3	2.63	3
105J_1989_3156	0	3.2	5	187	188	0.14	19.6	46	14.8	<0.2	0.74	480	522	2	1.25	2
105J_1989_3157	0	2.3	5	137	129	0.09	14.4	44	13.3	<0.2	0.33	126	123	<2	0.93	2

Unique ID	Rep Stat	Na ICP-MS % 0.001	Na INAA pct 0.02	Ni AAS ppm 2	Ni ICP-MS ppm 0.1	P ICP-MS % 0.001	Pb AAS ppm 2	Pb ICP-MS ppm 0.01	Rb INAA ppm 5	S ICP-MS % 0.01	Sb HY-AAS ppm 0.2	Sb ICP-MS ppm 0.02	Sb INAA ppm 0.1	Sc ICP-MS ppm 0.1	Sc INAA ppm 0.2	Se ICP-MS ppm 0.1
105J_1989_3122	1	0.007	0.44	31	29.8	0.191	13	12.34	70	0.22	1.1	1.09	1.7	3.2	9.3	2.4
105J_1989_3123	2	0.007	0.50	30	30.1	0.195	15	12.24	69	0.19	1.3	1.03	1.9	3.2	11.0	2.3
105J_1989_3124	0	0.005	0.45	31	33.1	0.204	18	16.12	77	0.07	1.7	1.39	2.6	2.2	11.0	1.7
105J_1989_3125	0	0.005	0.73	24	24.3	0.130	16	14.37	78	0.05	0.9	0.71	1.5	1.9	10.0	0.8
105J_1989_3126	0	0.006	0.74	18	19.0	0.128	14	17.99	70	0.05	0.6	0.46	1.0	1.6	9.2	0.6
105J_1989_3127	0	0.006	0.78	27	27.4	0.127	20	19.04	83	0.05	1.3	1.11	2.1	2.0	10.0	1.0
105J_1989_3128	0	0.008	1.00	25	25.0	0.062	23	21.84	100	0.06	1.7	1.52	2.7	2.0	12.0	0.9
105J_1989_3129	0	0.019	1.10	10	11.4	0.105	14	10.97	43	0.15	0.2	0.26	0.4	1.6	7.4	0.6
105J_1989_3130	0	0.006	0.37	28	26.0	0.161	16	12.11	78	0.11	0.8	0.87	1.5	2.2	10.0	1.8
105J_1989_3131	0	0.004	0.44	42	43.3	0.172	12	10.72	69	0.06	1.7	1.56	2.6	2.3	9.3	1.7
105J_1989_3133	0	0.005	0.37	53	55.9	0.190	15	14.51	77	0.09	1.7	1.70	2.9	2.7	10.0	3.8
105J_1989_3134	0	0.005	0.42	71	69.2	0.159	15	13.15	74	0.07	2.6	2.08	3.4	2.7	11.0	2.1
105J_1989_3135	0	0.004	0.35	109	107.3	0.170	14	12.29	74	0.08	2.1	2.28	3.7	2.6	10.0	2.9
105J_1989_3136	0	0.006	0.55	58	57.2	0.176	14	11.41	69	0.08	1.5	1.54	2.6	3.2	13.0	2.6
105J_1989_3137	0	0.020	0.74	31	30.6	0.087	23	23.21	95	0.42	0.6	0.86	1.2	3.4	12.0	2.0
105J_1989_3138	0	0.005	0.87	22	24.4	0.071	18	17.15	85	0.03	0.7	0.59	1.3	1.6	13.0	0.4
105J_1989_3139	0	0.008	0.89	27	29.0	0.090	21	22.25	95	0.04	0.6	0.46	1.1	1.9	15.0	0.3
105J_1989_3140	0	0.007	0.70	29	28.4	0.116	20	18.21	89	0.12	0.9	0.78	1.5	2.2	12.0	1.6
105J_1989_3143	1	0.004	0.45	20	20.0	0.051	24	24.44	87	0.03	2.0	1.71	3.5	2.1	9.1	0.4
105J_1989_3144	2	0.006	0.49	18	17.5	0.052	26	24.24	97	0.03	1.8	1.29	3.5	1.9	10.0	0.4
105J_1989_3145	0	0.006	0.90	22	23.4	0.086	21	20.34	92	0.04	0.5	0.42	1.2	1.8	15.0	0.3
105J_1989_3146	0	0.005	0.68	43	43.5	0.148	15	13.18	66	0.07	1.4	1.54	2.8	2.1	10.0	2.0
105J_1989_3147	0	0.008	0.84	22	24.4	0.089	15	13.69	73	0.07	0.5	0.59	1.1	1.9	11.0	1.0
105J_1989_3148	0	0.010	1.00	22	24.3	0.117	13	12.20	71	0.09	0.6	0.57	1.1	2.3	11.0	2.2
105J_1989_3149	0	0.062	1.10	29	26.4	0.116	14	13.48	63	0.09	0.7	0.91	1.4	3.0	12.0	1.3
105J_1989_3150	0	0.005	0.78	33	30.9	0.141	15	14.24	79	0.06	1.0	1.25	2.1	2.6	12.0	1.1
105J_1989_3151	0	0.008	0.59	36	35.3	0.150	23	22.56	72	0.16	2.0	2.16	3.5	2.1	10.0	3.8
105J_1989_3152	0	0.005	0.49	36	36.0	0.186	19	18.80	77	0.08	1.9	2.13	3.3	2.1	11.0	1.7
105J_1989_3153	0	0.006	0.44	26	25.7	0.191	12	11.21	64	0.06	1.3	1.36	2.3	2.4	9.0	1.3
105J_1989_3154	0	0.004	0.49	21	19.5	0.157	9	7.85	66	0.05	0.6	0.60	1.2	2.0	9.0	0.7
105J_1989_3155	0	0.004	0.38	29	32.0	0.199	12	12.84	72	0.09	1.3	1.16	2.0	2.9	9.2	1.5
105J_1989_3156	0	0.006	0.47	25	24.8	0.166	13	11.61	77	0.12	0.8	0.83	1.4	3.0	10.0	1.7
105J_1989_3157	0	0.007	0.57	20	19.6	0.105	12	11.30	69	0.15	0.8	0.90	1.6	2.1	10.0	2.4

Unique ID	Rep Stat	Sm INAA ppm 0.1	Sn AAS ppm 1	Sr ICP-MS ppm 0.5	Ta INAA ppm 0.5	Tb INAA ppm 0.5	Te ICP-MS ppm 0.02	Th ICP-MS ppm 0.1	Th INAA ppm 0.2	Ti ICP-MS % 0.001	Tl ICP-MS ppm 0.02	U ICP-MS ppm 0.1	U INAA ppm 0.2	U NADNC ppm 0.5	V AAS ppm 5	V ICP-MS ppm 2
105J_1989_3122	1	4.3	7	69.9	1.0	0.7	0.04	3.9	9.0	0.003	0.16	2.2	5.2	4.7	52	56
105J_1989_3123	2	4.6	5	69.5	0.9	1.0	0.02	4.0	9.2	0.003	0.16	2.2	5.2	5.0	56	57
105J_1989_3124	0	6.6	4	78.9	1.1	0.9	<0.02	4.9	11.0	0.004	0.15	2.2	5.3	4.8	57	58
105J_1989_3125	0	6.3	2	59.1	1.1	0.9	0.02	4.5	12.0	0.003	0.10	2.0	5.1	4.8	40	36
105J_1989_3126	0	7.6	4	56.8	1.1	0.9	0.03	5.3	13.0	0.004	0.10	1.9	5.1	4.8	35	32
105J_1989_3127	0	7.2	8	57.6	1.2	1.1	0.04	4.7	14.0	0.004	0.10	1.9	5.3	4.6	35	32
105J_1989_3128	0	7.2	4	45.5	1.3	1.1	0.03	4.8	16.0	0.002	0.05	1.3	4.3	4.2	20	14
105J_1989_3129	0	3.9	5	63.9	<0.5	0.8	<0.02	2.1	7.5	0.006	0.09	1.9	3.0	3.3	14	13
105J_1989_3130	0	4.3	9	94.0	0.9	0.7	0.05	2.0	7.9	0.003	0.15	1.7	4.3	4.3	42	38
105J_1989_3131	0	4.6	4	71.8	1.2	0.8	0.07	2.0	7.9	0.006	0.15	2.4	5.5	5.3	53	53
105J_1989_3133	0	5.0	5	92.6	1.1	0.9	0.07	2.4	8.6	0.006	0.18	3.2	6.8	5.9	61	64
105J_1989_3134	0	4.7	4	77.4	1.1	0.9	0.08	2.0	7.6	0.007	0.22	4.4	7.9	6.5	61	63
105J_1989_3135	0	4.4	4	69.1	1.0	1.0	0.09	2.2	7.3	0.006	0.27	2.8	6.0	7.7	72	76
105J_1989_3136	0	4.8	4	92.1	1.1	1.0	0.07	1.7	8.1	0.007	0.20	3.6	6.9	6.7	55	55
105J_1989_3137	0	5.0	10	70.9	0.7	1.3	0.03	3.7	10.0	0.004	0.15	6.5	7.4	8.1	23	21
105J_1989_3138	0	8.2	2	26.9	1.4	1.3	<0.02	6.6	17.0	0.005	0.05	1.2	4.9	4.4	22	20
105J_1989_3139	0	7.5	3	74.6	1.4	1.2	0.02	4.1	15.0	0.005	0.07	2.1	5.3	5.5	28	24
105J_1989_3140	0	6.0	3	63.1	1.0	1.1	0.04	3.7	12.0	0.003	0.12	2.1	5.0	4.7	32	25
105J_1989_3143	1	8.9	<1	24.5	1.4	1.2	0.02	5.9	20.1	0.002	0.05	1.3	4.8	4.8	17	9
105J_1989_3144	2	9.2	<1	24.6	1.4	1.2	0.03	5.7	20.8	0.002	0.05	1.6	5.6	5.2	17	10
105J_1989_3145	0	10.0	<1	26.1	1.4	1.6	<0.02	3.0	18.0	0.004	0.07	1.5	5.2	4.6	24	21
105J_1989_3146	0	6.1	4	59.5	1.2	1.0	0.03	3.8	11.0	0.006	0.16	2.7	5.9	5.0	55	58
105J_1989_3147	0	6.9	3	50.8	1.2	1.0	0.02	4.4	13.0	0.005	0.07	2.1	5.2	4.9	24	23
105J_1989_3148	0	5.2	4	63.5	1.0	0.9	0.03	4.1	10.0	0.008	0.09	1.1	3.9	3.8	34	31
105J_1989_3149	0	6.1	7	112.8	1.0	0.9	0.03	4.1	10.0	0.051	0.15	1.3	3.9	4.0	54	47
105J_1989_3150	0	5.6	20	125.3	1.2	1.0	0.05	4.2	11.0	0.004	0.07	1.4	4.4	3.8	39	29
105J_1989_3151	0	4.5	6	117.8	1.1	0.8	0.06	3.4	9.2	0.003	0.13	1.6	4.2	4.3	39	36
105J_1989_3152	0	6.9	5	93.3	1.1	0.9	0.05	4.5	12.0	0.004	0.14	2.2	5.5	5.1	57	55
105J_1989_3153	0	4.9	3	63.7	1.1	0.8	0.05	3.7	9.0	0.004	0.10	1.7	4.6	4.4	42	41
105J_1989_3154	0	7.3	4	47.6	1.3	1.0	0.03	3.5	11.0	0.004	0.09	1.1	4.9	4.2	36	30
105J_1989_3155	0	5.2	2	67.8	1.3	1.0	0.05	3.9	9.2	0.004	0.13	1.6	5.0	4.6	35	37
105J_1989_3156	0	5.7	8	65.0	1.2	1.0	0.02	4.2	11.0	0.005	0.12	1.3	4.7	4.6	32	34
105J_1989_3157	0	4.8	2	46.3	1.3	0.8	0.03	3.5	10.0	0.003	0.10	2.8	5.8	5.7	30	28

Unique ID	Rep Stat	W ICP-MS ppm 0.1	W INAA ppm 1	wt INAA g 0.01	Yb INAA ppm 2	Zn AAS ppm 2	Zn ICP-MS ppm 0.1
105J_1989_3122	1	<0.1	<1	16.15	<2	195	197.2
105J_1989_3123	2	<0.1	1	29.07	2	194	195.0
105J_1989_3124	0	0.1	1	34.65	3	205	215.4
105J_1989_3125	0	<0.1	1	37.45	2	129	126.1
105J_1989_3126	0	<0.1	2	32.49	<2	106	106.0
105J_1989_3127	0	<0.1	1	35.54	3	141	149.1
105J_1989_3128	0	<0.1	2	30.74	3	106	109.4
105J_1989_3129	0	<0.1	<1	21.51	2	71	73.7
105J_1989_3130	0	<0.1	<1	26.84	2	185	172.1
105J_1989_3131	0	<0.1	2	39.04	3	207	216.4
105J_1989_3133	0	<0.1	<1	32.95	2	177	178.9
105J_1989_3134	0	<0.1	<1	36.05	3	295	297.9
105J_1989_3135	0	<0.1	1	35.62	3	415	408.0
105J_1989_3136	0	<0.1	1	30.10	2	255	246.3
105J_1989_3137	0	<0.1	<1	15.03	3	106	108.1
105J_1989_3138	0	<0.1	2	39.70	4	75	85.9
105J_1989_3139	0	<0.1	2	32.62	3	100	105.7
105J_1989_3140	0	<0.1	1	28.91	2	136	140.7
105J_1989_3143	1	<0.1	<1	18.95	3	71	78.1
105J_1989_3144	2	<0.1	2	31.68	3	62	66.1
105J_1989_3145	0	0.2	2	35.24	4	88	92.7
105J_1989_3146	0	<0.1	1	39.51	2	295	291.4
105J_1989_3147	0	<0.1	1	29.34	3	88	99.3
105J_1989_3148	0	<0.1	<1	33.75	2	109	122.3
105J_1989_3149	0	<0.1	<1	33.84	2	108	106.5
105J_1989_3150	0	<0.1	1	45.32	3	167	153.7
105J_1989_3151	0	<0.1	<1	30.72	2	190	199.2
105J_1989_3152	0	0.8	2	36.82	3	240	239.3
105J_1989_3153	0	<0.1	<1	37.07	2	114	122.6
105J_1989_3154	0	<0.1	1	45.70	2	101	102.3
105J_1989_3155	0	<0.1	1	43.65	<2	137	143.8
105J_1989_3156	0	<0.1	<1	30.43	<2	150	144.8
105J_1989_3157	0	<0.1	1	25.14	2	88	83.1

Unique ID	Rep Stat	Ag AAS	Ag ICP-MS	Al ICP-MS	As HY-AAS	As ICP-MS	As INAA	Au INAA	Au1 INAA	Au1_wt -	B ICP-MS	Ba ICP-MS	Ba INAA	Bi ICP-MS	Br INAA	Ca ICP-MS
		ppm	ppb	%	ppm	ppm	ppm	ppb	ppb	g	ppm	ppm	ppm	ppm	ppm	%
		0.2	2	0.01	1	0.1	0.5	2	2	0.01	1	0.5	50	0.02	0.5	0.01
105J_1989_3158	0	<0.2	204	1.10	5	11.4	14.0	5			3	389.7	1700	0.14	4.4	0.94
105J_1989_3159	0	0.3	269	0.97	2	3.0	5.1	6			7	334.6	1400	0.09	8.1	1.63
105J_1989_3160	0	0.4	307	1.13	5	8.3	11.0	5			6	629.8	2300	0.14	7.6	0.79
105J_1989_3162	0	<0.2	392	1.35	7	13.4	16.0	10			6	436.4	1900	0.16	5.0	0.59
105J_1989_3163	1	0.7	412	1.44	7	13.4	16.0	10			7	648.7	2100	0.19	4.1	0.60
105J_1989_3164	2	0.4	420	1.44	7	13.4	17.0	10			6	597.3	2100	0.19	4.5	0.59
105J_1989_3165	0	0.6	320	1.19	4	7.0	8.9	10			7	467.0	2000	0.13	2.8	0.59
105J_1989_3166	0	0.5	452	1.32	8	12.6	15.0	10			6	509.7	2000	0.16	3.7	0.61
105J_1989_3167	0	<0.2	325	1.42	7	11.3	15.0	8			7	340.4	1800	0.16	4.5	0.78
105J_1989_3168	0	0.5	472	1.44	12	19.6	25.0	11			7	386.6	2000	0.30	4.9	0.73
105J_1989_3169	0	0.5	799	1.60	30	50.3	58.4	7			5	327.0	1800	0.97	4.5	0.64
105J_1989_3170	0	<0.2	250	3.01	40	65.9	72.9	<2			2	244.9	1400	1.35	8.3	1.39
105J_1989_3171	0	0.4	415	1.28	12	21.8	25.0	10			5	802.3	2200	0.50	11.0	0.77
105J_1989_3172	0	0.3	359	1.35	15	23.7	25.0	8			6	560.4	2200	0.27	3.4	0.75
105J_1989_3173	0	0.5	468	1.71	3	4.6	6.3	11			9	309.4	1500	0.14	8.7	0.93
105J_1989_3174	0	<0.2	227	1.66	8	12.4	16.0	53	8	34.24	4	774.7	2900	0.15	5.4	0.89
105J_1989_3175	0	0.9	738	1.93	30	45.3	46.0	8			4	260.1	1200	4.79	4.5	1.12
105J_1989_3176	0	0.6	603	1.08	8	12.1	14.0	11			4	680.3	2300	0.18	10.0	0.41
105J_1989_3177	0	0.3	284	1.04	9	13.6	18.0	6			2	295.4	1700	0.16	2.9	0.26
105J_1989_3179	0	0.7	731	1.44	8	14.1	19.0	9			4	468.4	2100	0.19	6.4	0.38
105J_1989_3180	0	<0.2	321	1.32	4	5.5	8.6	5			4	562.9	1900	0.17	5.0	0.40
105J_1989_3182	0	0.2	217	1.25	2	4.3	7.5	4			3	304.4	1100	0.25	10.0	0.43
105J_1989_3183	0	<0.2	170	1.00	2	4.3	6.7	3			3	319.3	1300	0.20	3.4	0.46
105J_1989_3185	1	<0.2	161	0.97	3	4.9	9.1	5			2	254.5	870	0.28	9.5	0.30
105J_1989_3186	2	<0.2	134	0.92	3	5.2	8.9	3			2	237.6	850	0.29	7.7	0.29
105J_1989_3187	0	<0.2	293	1.43	2	4.6	6.8	4			3	342.9	1100	0.24	11.0	0.87
105J_1989_3188	0	0.2	306	0.59	18	55.8	55.9	5			6	879.7	3100	0.07	13.0	0.83
105J_1989_3189	0	0.4	307	1.21	5	5.9	8.1	8			3	616.6	2200	0.10	6.5	0.58
105J_1989_3190	0	0.9	1025	1.51	9	14.6	18.0	11			8	1043.6	2500	0.19	15.0	0.83
105J_1989_3191	0	0.5	662	1.56	11	19.5	24.0	21	20	28.18	7	518.5	2000	0.25	7.8	0.25
105J_1989_3192	0	1.3	1002	1.12	10	15.7	21.0	13			7	1094.2	3400	0.18	10.0	0.51
105J_1989_3193	0	1.0	1126	1.15	8	12.6	17.0	12			7	1370.8	4000	0.16	4.8	0.42
105J_1989_3194	0	1.0	1170	0.99	10	15.0	21.0	12			7	1266.8	6300	0.17	13.0	0.48

Unique ID	Rep Stat	Cd AAS	Cd ICP-MS	Ce INAA	Co AAS	Co ICP-MS	Co INAA	Cr ICP-MS	Cr INAA	Cs INAA	Cu AAS	Cu ICP-MS	Eu INAA	F ISE	Fe AAS	Fe ICP-MS	Fe INAA
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	pct	%	pct
		0.2	0.01	5	2	0.1	5	0.5	20	0.5	2	0.01	1	20	0.02	0.01	0.2
105J_1989_3158	0	0.6	0.82	61	8	8.4	13	15.0	45	3.6	35	31.89	1	548	2.64	2.39	3.2
105J_1989_3159	0	1.6	1.70	41	4	5.1	8	12.9	37	3.0	43	38.99	<1	509	1.55	1.39	2.2
105J_1989_3160	0	1.7	1.70	55	9	8.2	13	17.5	70	3.9	34	28.45	1	753	2.57	2.15	3.1
105J_1989_3162	0	1.7	1.84	62	9	7.9	13	20.7	69	5.3	47	42.46	<1	571	2.47	2.16	2.9
105J_1989_3163	1	1.5	1.62	66	11	9.9	13	24.1	72	5.0	51	45.86	<1	603	2.64	2.34	3.1
105J_1989_3164	2	1.3	1.59	64	11	9.8	14	23.3	65	4.8	52	46.61	<1	591	2.50	2.37	3.1
105J_1989_3165	0	1.2	1.19	57	10	8.4	13	19.0	61	4.6	45	39.93	<1	736	1.88	1.74	2.4
105J_1989_3166	0	1.9	2.08	51	12	9.8	13	25.2	64	4.5	52	49.48	<1	714	2.43	2.25	2.5
105J_1989_3167	0	1.1	1.73	57	9	8.5	13	22.0	65	5.2	49	48.88	<1	653	2.24	2.17	3.0
105J_1989_3168	0	3.3	3.54	64	11	10.0	16	23.2	62	5.1	56	56.74	<1	719	2.45	2.31	3.2
105J_1989_3169	0	5.0	4.87	67	10	9.9	14	26.9	71	5.6	73	71.43	<1	657	2.41	2.24	3.2
105J_1989_3170	0	2.5	2.72	67	9	9.5	16	33.1	55	6.0	54	49.28	<1	634	2.65	2.56	3.3
105J_1989_3171	0	5.3	5.09	47	11	10.0	17	22.0	63	4.9	45	40.79	<1	604	3.39	3.35	4.2
105J_1989_3172	0	2.3	2.26	60	10	9.6	16	22.6	62	4.0	50	48.33	<1	626	2.37	2.27	2.8
105J_1989_3173	0	1.6	1.77	57	10	9.2	14	23.2	60	4.8	61	56.59	<1	623	2.45	2.16	2.8
105J_1989_3174	0	0.6	1.02	69	9	7.9	12	23.0	60	4.1	29	25.46	1	629	2.94	2.76	3.5
105J_1989_3175	0	3.0	3.23	55	10	8.9	14	30.9	46	5.5	125	115.61	1	551	2.73	2.22	2.7
105J_1989_3176	0	5.3	5.30	52	11	9.8	15	24.9	79	4.1	58	56.21	1	502	2.32	2.32	3.2
105J_1989_3177	0	0.8	1.38	71	8	7.6	13	18.1	65	4.2	37	36.43	<1	445	2.16	2.16	3.1
105J_1989_3179	0	2.2	2.30	68	11	9.1	16	25.3	73	4.8	47	46.78	1	475	2.47	2.56	3.5
105J_1989_3180	0	2.6	2.70	69	13	10.3	18	17.4	62	4.0	31	29.01	2	412	2.07	1.98	3.2
105J_1989_3182	0	0.2	0.39	72	11	10.3	18	16.4	55	8.3	39	34.44	2	368	2.30	2.23	3.4
105J_1989_3183	0	0.2	0.55	69	9	8.1	14	14.3	51	4.3	32	29.94	2	373	2.12	1.91	2.8
105J_1989_3185	1	0.2	0.42	77	18	16.3	24	16.2	57	11.0	50	43.01	<1	411	2.53	2.84	3.8
105J_1989_3186	2	0.2	0.26	82	19	16.9	24	15.6	56	11.0	46	42.99	2	384	2.56	2.96	4.0
105J_1989_3187	0	0.4	0.80	53	8	8.0	14	13.5	55	8.8	62	58.67	2	351	2.48	2.11	2.9
105J_1989_3188	0	3.3	3.94	16	15	17.7	23	7.8	<20	1.1	46	48.88	<1	201	16.00	14.96	15.0
105J_1989_3189	0	1.1	1.50	42	11	10.6	15	16.7	43	2.8	34	31.59	1	591	2.96	2.52	3.1
105J_1989_3190	0	7.2	6.34	31	16	13.7	17	27.1	60	4.5	68	67.07	<1	596	3.26	3.12	3.3
105J_1989_3191	0	0.9	1.58	52	19	19.8	29	26.3	64	7.8	120	123.19	1	727	3.53	3.52	4.7
105J_1989_3192	0	7.5	6.67	56	9	10.4	15	29.4	86	4.4	89	83.91	<1	620	2.84	2.75	3.4
105J_1989_3193	0	4.5	4.15	46	10	8.7	13	31.7	78	5.1	82	78.51	1	699	2.05	1.97	2.9
105J_1989_3194	0	10.9	10.22	49	12	9.7	16	26.3	97	4.9	91	89.71	1	619	2.41	2.30	3.3

Unique ID	Rep Stat	Ga ICP-MS ppm 0.2	Hf INAA ppm 1	Hg CV-AAS ppb 10	Hg ICP-MS ppb 5	K ICP-MS % 0.01	La ICP-MS ppm 0.5	La INAA ppm 2	LOI GRAV pct 1.0	Lu INAA ppm 0.2	Mg ICP-MS % 0.01	Mn AAS ppm 5	Mn ICP-MS ppm 1	Mo AAS ppm 2	Mo ICP-MS ppm 0.01	Mo INAA ppm 1
105J_1989_3158	0	3.3	4	148	133	0.14	16.1	42	16.6	<0.2	0.57	471	460	2	1.01	3
105J_1989_3159	0	2.9	3	205	217	0.13	12.0	32	29.9	<0.2	0.55	260	229	<2	0.71	3
105J_1989_3160	0	3.3	3	176	164	0.18	12.7	37	14.8	<0.2	0.39	1164	1142	2	2.22	4
105J_1989_3162	0	4.1	4	176	156	0.18	16.2	42	12.8	<0.2	0.55	749	760	3	2.14	4
105J_1989_3163	1	4.1	5	180	160	0.22	19.7	48	9.6	<0.2	0.58	508	545	2	2.27	4
105J_1989_3164	2	4.2	4	191	184	0.21	18.8	44	10.0	<0.2	0.58	491	551	3	2.37	4
105J_1989_3165	0	3.8	5	227	209	0.22	16.0	42	8.2	<0.2	0.53	285	318	2	1.63	3
105J_1989_3166	0	3.8	4	241	217	0.22	16.9	36	9.9	<0.2	0.57	732	801	2	2.65	4
105J_1989_3167	0	4.2	5	158	126	0.24	18.5	44	11.0	<0.2	0.68	421	469	2	1.74	3
105J_1989_3168	0	4.5	5	173	140	0.24	17.1	47	9.0	<0.2	0.75	514	589	2	2.17	4
105J_1989_3169	0	5.0	6	83	66	0.19	19.5	52	9.4	<0.2	0.79	328	365	3	2.34	3
105J_1989_3170	0	8.5	5	50	45	0.28	17.8	50	15.8	<0.2	1.22	307	351	<2	0.91	2
105J_1989_3171	0	4.1	3	122	129	0.16	14.3	35	16.5	<0.2	0.65	8020	6853	2	2.41	3
105J_1989_3172	0	4.1	4	130	116	0.22	19.7	43	8.4	<0.2	0.72	421	455	4	2.09	4
105J_1989_3173	0	4.4	4	166	179	0.31	21.7	40	15.8	<0.2	0.86	296	301	2	1.51	4
105J_1989_3174	0	4.7	6	79	81	0.24	16.9	49	7.8	<0.2	0.78	1017	1143	2	1.65	2
105J_1989_3175	0	6.2	3	72	61	0.15	15.4	38	21.2	<0.2	0.99	443	430	2	1.00	3
105J_1989_3176	0	3.1	4	227	271	0.14	15.9	37	9.5	<0.2	0.40	742	860	4	4.30	6
105J_1989_3177	0	3.3	7	72	68	0.12	18.8	52	4.8	<0.2	0.42	349	391	2	2.30	3
105J_1989_3179	0	4.0	6	202	205	0.15	19.0	50	7.4	<0.2	0.46	618	729	4	4.42	7
105J_1989_3180	0	3.3	5	155	144	0.13	16.5	50	8.8	<0.2	0.39	1050	1187	<2	1.38	3
105J_1989_3182	0	3.3	5	101	111	0.11	11.7	52	11.7	<0.2	0.36	468	441	<2	0.75	2
105J_1989_3183	0	2.8	5	72	64	0.12	15.0	48	12.2	<0.2	0.32	480	449	<2	0.94	3
105J_1989_3185	1	2.4	6	115	121	0.10	9.2	52	10.2	<0.2	0.38	645	646	<2	0.82	3
105J_1989_3186	2	2.5	5	119	116	0.10	9.2	54	9.3	<0.2	0.37	620	652	<2	0.76	2
105J_1989_3187	0	3.0	4	137	108	0.17	14.5	40	23.1	<0.2	0.27	625	551	<2	0.57	2
105J_1989_3188	0	1.8	1	198	211	0.05	5.0	12	37.6	<0.2	0.17	7544	6072	13	19.71	17
105J_1989_3189	0	3.6	3	148	133	0.12	13.5	29	16.6	<0.2	0.42	3018	2515	3	1.86	3
105J_1989_3190	0	4.3	3	306	366	0.22	13.8	29	20.0	<0.2	0.45	5953	4744	9	9.74	12
105J_1989_3191	0	4.9	3	306	369	0.25	19.6	40	10.0	<0.2	0.59	1394	1590	6	6.30	9
105J_1989_3192	0	3.6	3	418	456	0.21	10.5	35	13.7	<0.2	0.35	1279	1492	9	9.18	12
105J_1989_3193	0	4.0	3	360	365	0.18	9.8	33	7.7	<0.2	0.34	493	572	7	6.95	10
105J_1989_3194	0	3.0	4	349	373	0.15	10.9	38	10.4	<0.2	0.32	639	707	11	12.48	15

Unique ID	Rep Stat	Na ICP-MS	Na INAA	Ni AAS	Ni ICP-MS	P ICP-MS	Pb AAS	Pb ICP-MS	Rb INAA	S ICP-MS	Sb HY-AAS	Sb ICP-MS	Sb INAA	Sc ICP-MS	Sc INAA	Se ICP-MS
		%	pct	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
		0.001	0.02	2	0.1	0.001	2	0.01	5	0.01	0.2	0.02	0.1	0.1	0.2	0.1
105J_1989_3158	0	0.011	0.79	23	21.4	0.122	12	10.24	64	0.13	0.9	0.90	1.4	2.6	10.0	1.5
105J_1989_3159	0	0.012	0.78	25	22.5	0.105	8	6.26	54	0.48	0.6	0.85	1.1	2.7	9.1	5.0
105J_1989_3160	0	0.008	0.53	32	27.9	0.180	15	11.60	63	0.10	1.3	1.46	2.2	2.3	10.0	1.7
105J_1989_3162	0	0.008	0.62	34	30.7	0.129	18	13.42	68	0.08	1.4	1.57	2.5	2.6	11.0	1.4
105J_1989_3163	1	0.008	0.60	39	36.1	0.127	15	13.72	80	0.06	2.1	1.93	3.1	3.3	12.0	1.8
105J_1989_3164	2	0.007	0.56	38	36.5	0.124	15	13.87	78	0.06	2.1	2.03	3.2	3.3	12.0	1.8
105J_1989_3165	0	0.008	0.45	28	28.3	0.152	12	10.19	69	0.04	1.2	1.18	1.8	2.7	10.0	1.2
105J_1989_3166	0	0.009	0.44	38	36.3	0.144	16	17.94	71	0.07	2.0	1.88	2.8	3.1	8.7	2.0
105J_1989_3167	0	0.009	0.59	32	31.5	0.140	17	14.67	84	0.05	1.7	1.43	2.5	3.0	11.0	1.5
105J_1989_3168	0	0.009	0.58	40	37.7	0.160	23	21.15	76	0.09	3.1	2.77	4.5	3.2	12.0	1.8
105J_1989_3169	0	0.020	0.77	47	46.6	0.142	54	52.83	78	0.06	10.0	7.08	10.2	2.8	12.0	1.7
105J_1989_3170	0	0.093	0.79	27	27.0	0.114	25	22.21	62	0.09	2.5	2.03	3.1	3.8	11.0	1.0
105J_1989_3171	0	0.012	0.61	66	65.0	0.192	15	12.17	59	0.18	1.7	2.01	3.0	2.4	9.3	5.0
105J_1989_3172	0	0.011	0.50	34	32.3	0.160	17	13.79	67	0.07	2.0	1.95	2.7	3.0	10.0	1.7
105J_1989_3173	0	0.010	0.56	38	34.3	0.139	13	9.76	69	0.10	1.2	1.39	2.0	3.7	12.0	2.2
105J_1989_3174	0	0.068	0.67	30	27.4	0.155	15	11.61	58	0.09	1.5	1.52	2.3	2.9	10.0	1.5
105J_1989_3175	0	0.014	0.65	31	29.5	0.124	36	34.41	65	0.12	3.8	4.47	5.3	3.3	10.0	1.8
105J_1989_3176	0	0.009	0.76	61	59.5	0.156	14	12.59	63	0.11	2.5	2.59	3.7	2.0	10.0	3.1
105J_1989_3177	0	0.005	0.80	35	34.4	0.115	17	16.18	76	0.03	1.9	1.61	3.0	2.0	11.0	0.8
105J_1989_3179	0	0.010	0.78	45	47.2	0.152	16	14.46	76	0.03	3.2	2.22	4.4	2.5	12.0	1.3
105J_1989_3180	0	0.009	0.87	47	46.3	0.120	15	12.21	80	0.04	0.8	0.74	1.5	2.4	12.0	1.4
105J_1989_3182	0	0.010	0.82	25	24.7	0.089	18	15.85	91	0.06	0.7	0.60	1.2	2.6	15.0	1.0
105J_1989_3183	0	0.011	0.87	21	20.4	0.094	15	12.96	75	0.05	0.7	0.78	1.4	1.8	11.0	0.6
105J_1989_3185	1	0.009	0.65	28	26.8	0.078	23	20.92	93	0.06	0.9	0.65	1.5	2.8	15.0	0.8
105J_1989_3186	2	0.010	0.66	27	27.4	0.076	25	21.33	92	0.05	0.9	0.74	1.6	2.9	15.0	0.7
105J_1989_3187	0	0.019	0.82	26	25.7	0.095	21	17.87	89	0.13	0.5	0.53	1.0	3.0	13.0	1.0
105J_1989_3188	0	0.016	0.61	68	72.3	0.311	7	4.48	17	0.32	1.4	3.33	3.3	1.6	4.1	17.8
105J_1989_3189	0	0.007	0.54	24	23.2	0.148	11	7.29	48	0.19	0.7	0.67	1.1	2.6	8.7	2.1
105J_1989_3190	0	0.008	0.36	87	84.6	0.236	12	11.45	69	0.12	2.3	2.18	3.7	2.9	8.9	4.7
105J_1989_3191	0	0.006	0.38	91	92.2	0.168	21	20.22	73	0.09	2.9	2.34	3.8	3.9	13.0	3.2
105J_1989_3192	0	0.007	0.35	103	96.1	0.221	15	12.95	68	0.12	5.0	3.46	5.4	2.9	10.0	5.1
105J_1989_3193	0	0.006	0.42	85	81.6	0.167	14	11.44	69	0.09	5.0	3.22	5.4	2.9	11.0	3.0
105J_1989_3194	0	0.005	0.45	148	138.7	0.170	14	11.35	75	0.11	8.0	5.12	9.1	2.4	12.0	4.3

Unique ID	Rep Stat	Sm INAA	Sn AAS	Sr ICP-MS	Ta INAA	Tb INAA	Te ICP-MS	Th ICP-MS	Th INAA	Ti ICP-MS	Tl ICP-MS	U ICP-MS	U INAA	U NADNC	V AAS	V ICP-MS
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.5	0.5	0.5	0.02	0.1	0.2	0.001	0.02	0.1	0.2	0.5	5	2
105J_1989_3158	0	4.4	6	103.6	1.0	0.7	<0.02	3.9	9.3	0.003	0.12	1.7	4.7	4.4	30	35
105J_1989_3159	0	3.1	10	91.4	0.8	0.7	0.04	2.5	6.9	0.005	0.16	4.8	7.6	7.2	28	34
105J_1989_3160	0	4.2	5	67.9	0.9	0.7	0.02	2.4	6.9	0.009	0.21	2.3	5.0	4.8	67	87
105J_1989_3162	0	4.8	6	52.6	1.1	0.9	0.06	3.0	9.4	0.007	0.17	2.6	5.7	5.3	50	61
105J_1989_3163	1	5.5	4	49.6	1.1	0.7	0.02	3.9	10.0	0.009	0.20	2.3	5.5	5.1	57	74
105J_1989_3164	2	5.3	3	49.3	1.0	0.8	0.03	3.7	10.0	0.008	0.20	2.3	5.5	5.5	57	73
105J_1989_3165	0	4.9	8	51.0	1.0	0.7	0.03	3.4	9.2	0.009	0.19	1.7	5.2	4.6	45	62
105J_1989_3166	0	4.6	8	54.5	1.0	0.9	0.05	3.8	9.0	0.009	0.21	2.5	5.5	5.3	58	76
105J_1989_3167	0	5.4	8	54.6	1.3	1.0	0.03	4.0	11.0	0.010	0.17	1.4	4.8	4.2	48	61
105J_1989_3168	0	5.3	8	49.4	1.1	1.0	0.06	3.4	10.0	0.013	0.22	2.0	5.4	4.6	56	70
105J_1989_3169	0	5.8	14	47.2	1.2	1.0	0.03	2.3	10.0	0.028	0.29	2.9	6.2	5.8	66	76
105J_1989_3170	0	5.3	13	100.9	1.0	0.7	0.05	3.0	10.0	0.080	0.22	1.0	3.3	3.0	57	55
105J_1989_3171	0	4.0	10	65.2	0.9	0.6	0.02	2.6	7.2	0.015	0.26	2.9	5.3	5.2	67	80
105J_1989_3172	0	5.0	10	58.6	1.0	0.9	0.04	4.2	9.2	0.016	0.18	1.5	4.2	4.5	52	69
105J_1989_3173	0	4.7	8	57.7	1.3	0.8	0.05	3.2	8.6	0.013	0.20	1.4	4.4	4.2	41	54
105J_1989_3174	0	5.5	9	93.3	0.9	0.8	0.03	4.5	10.0	0.034	0.15	1.6	4.6	4.6	47	58
105J_1989_3175	0	4.1	10	39.4	0.8	0.7	0.08	2.9	8.2	0.046	0.26	3.0	5.1	5.6	70	78
105J_1989_3176	0	4.4	5	65.9	1.0	0.8	0.05	1.2	7.7	0.010	0.26	5.8	9.1	8.7	68	98
105J_1989_3177	0	6.2	3	33.5	1.3	1.1	0.05	3.1	12.0	0.007	0.14	2.1	5.9	5.2	42	52
105J_1989_3179	0	6.1	5	45.7	1.1	1.1	<0.02	2.2	11.0	0.006	0.30	5.5	10.0	8.6	80	117
105J_1989_3180	0	6.1	7	41.3	1.1	1.1	0.04	2.9	12.0	0.005	0.16	2.7	6.1	5.1	36	44
105J_1989_3182	0	7.1	9	48.2	0.9	1.2	0.04	3.6	14.0	0.004	0.09	1.8	4.8	4.7	25	28
105J_1989_3183	0	5.5	6	43.7	1.0	0.8	0.05	2.9	11.0	0.006	0.08	1.0	3.8	3.6	29	31
105J_1989_3185	1	7.0	3	62.1	1.5	1.4	0.05	3.5	14.0	0.004	0.08	3.2	6.1	6.1	28	26
105J_1989_3186	2	7.0	5	61.0	1.3	1.2	0.02	3.7	14.0	0.004	0.07	2.6	5.6	5.7	25	26
105J_1989_3187	0	5.8	8	87.3	0.8	1.1	0.08	4.0	13.0	0.003	0.13	3.7	6.5	6.8	25	27
105J_1989_3188	0	1.3	9	73.3	<0.5	<0.5	0.04	0.9	2.6	0.009	0.14	3.8	4.4	6.7	24	26
105J_1989_3189	0	3.5	5	57.4	0.9	0.7	0.02	1.9	6.3	0.004	0.17	2.5	5.2	5.3	41	53
105J_1989_3190	0	4.2	8	98.8	0.8	0.9	0.08	1.5	7.0	0.006	0.34	4.6	8.2	7.4	87	121
105J_1989_3191	0	6.0	5	71.1	1.2	1.2	0.09	2.6	8.8	0.007	0.33	4.0	8.1	6.9	65	81
105J_1989_3192	0	4.5	6	77.7	0.8	1.0	0.13	1.5	6.7	0.007	0.35	7.5	12.0	10.7	139	188
105J_1989_3193	0	4.2	8	67.3	0.9	0.8	0.09	1.6	7.0	0.007	0.48	9.5	15.0	12.6	157	221
105J_1989_3194	0	4.8	6	81.1	1.0	1.3	0.07	1.3	7.6	0.006	0.55	9.7	15.0	13.6	146	205

Unique ID	Rep Stat	W ICP-MS ppm 0.1	W INAA ppm 1	wt INAA g 0.01	Yb INAA ppm 2	Zn AAS ppm 2	Zn ICP-MS ppm 0.1
105J_1989_3158	0	<0.1	1	28.91	2	124	111.5
105J_1989_3159	0	<0.1	<1	24.35	<2	146	125.6
105J_1989_3160	0	<0.1	1	31.91	2	256	210.3
105J_1989_3162	0	<0.1	1	30.12	3	207	182.4
105J_1989_3163	1	<0.1	1	34.82	3	225	195.5
105J_1989_3164	2	<0.1	1	16.38	3	215	196.5
105J_1989_3165	0	<0.1	1	28.48	3	167	155.8
105J_1989_3166	0	<0.1	1	32.12	<2	205	186.5
105J_1989_3167	0	<0.1	<1	32.39	3	175	165.1
105J_1989_3168	0	<0.1	<1	37.81	3	276	253.1
105J_1989_3169	0	0.3	1	32.25	3	514	480.1
105J_1989_3170	0	0.2	<1	27.75	<2	257	228.3
105J_1989_3171	0	0.1	<1	29.82	2	456	422.3
105J_1989_3172	0	0.5	1	19.19	2	198	175.6
105J_1989_3173	0	0.2	<1	27.03	3	191	162.8
105J_1989_3174	0	0.2	<1	36.64	3	147	131.6
105J_1989_3175	0	0.4	1	24.45	2	248	224.5
105J_1989_3176	0	0.1	<1	34.16	3	479	470.1
105J_1989_3177	0	0.1	<1	43.14	3	198	188.1
105J_1989_3179	0	<0.1	1	37.09	3	336	342.3
105J_1989_3180	0	<0.1	2	33.52	3	280	253.1
105J_1989_3182	0	<0.1	1	29.30	3	118	102.6
105J_1989_3183	0	<0.1	1	29.89	3	110	96.7
105J_1989_3185	1	<0.1	1	16.03	3	118	106.9
105J_1989_3186	2	<0.1	2	28.97	3	114	104.1
105J_1989_3187	0	<0.1	<1	19.81	3	144	132.6
105J_1989_3188	0	0.1	<1	19.89	<2	309	278.4
105J_1989_3189	0	<0.1	1	28.25	<2	169	153.5
105J_1989_3190	0	<0.1	1	24.16	<2	565	508.7
105J_1989_3191	0	<0.1	2	34.12	4	246	232.3
105J_1989_3192	0	0.4	1	26.49	3	678	610.7
105J_1989_3193	0	<0.1	<1	21.98	3	630	603.7
105J_1989_3194	0	<0.1	2	37.38	4	1430	1343.3

Unique ID	Rep Stat	Ag AAS	Ag ICP-MS	Al ICP-MS	As HY-AAS	As ICP-MS	As INAA	Au INAA	Au1 INAA	Au1_wt -	B ICP-MS	Ba ICP-MS	Ba INAA	Bi ICP-MS	Br INAA	Ca ICP-MS
		ppm	ppb	%	ppm	ppm	ppm	ppb	ppb	g	ppm	ppm	ppm	ppm	ppm	%
		0.2	2	0.01	1	0.1	0.5	2	2	0.01	1	0.5	50	0.02	0.5	0.01
105J_1989_3195	0	1.7	1622	1.21	11	15.5	20.0	13			8	916.1	2400	0.16	15.0	0.78
105J_1989_3196	0	0.4	536	1.16	9	13.8	20.0	14	11	15.54	5	524.9	2700	0.17	9.1	0.38
105J_1989_3197	0	0.7	528	1.28	11	15.9	21.0	15	17	27.04	5	574.3	2300	0.19	11.0	0.37
105J_1989_3198	0	0.6	903	1.20	5	6.1	8.4	14	14	16.09	5	511.2	2000	0.24	7.6	0.42
105J_1989_3199	0	1.5	1359	1.19	14	23.8	28.0	17	14	30.63	5	897.3	2600	0.27	14.0	0.48
105J_1989_3200	0	0.4	557	1.24	11	15.5	21.0	19	17	33.70	5	413.1	2000	0.20	6.3	0.49
105J_1989_3202	0	0.4	445	1.18	9	13.2	17.0	8			5	788.2	3000	0.17	3.2	0.52
105J_1989_3203	0	1.2	1147	0.95	18	23.4	28.0	11			7	628.1	2000	0.23	24.0	0.68
105J_1989_3204	1	0.9	810	1.38	6	9.4	13.0	13	17	13.19	6	1332.6	4500	0.19	3.6	0.76
105J_1989_3205	2	0.8	892	1.40	8	9.9	13.0	15	17	30.16	7	1451.5	4700	0.20	4.0	0.79
105J_1989_3207	0	0.8	733	1.14	11	15.3	20.0	21	18	33.13	7	756.7	3700	0.20	3.9	0.73
105J_1989_3208	0	0.7	782	1.22	11	16.3	20.0	25	23	23.43	10	828.6	8560	0.19	2.7	1.08
105J_1989_3209	0	0.9	1243	0.95	40	35.8	47.0	15	15	36.26	7	948.5	4800	0.21	3.4	0.72
105J_1989_3210	0	1.1	1286	0.85	40	36.2	47.0	8			9	944.3	4000	0.21	5.4	1.09
105J_1989_3211	0	0.8	840	1.08	30	27.0	30.0	11			7	1336.3	4400	0.23	2.9	0.64
105J_1989_3212	0	0.7	967	1.02	22	25.7	33.0	12			7	1327.6	6410	0.21	3.4	0.67
105J_1989_3213	0	1.3	997	0.75	35	32.7	49.0	10			7	908.6	5320	0.17	2.1	0.72
105J_1989_3214	0	0.9	752	1.02	38	34.0	45.0	14	10	30.89	6	1165.3	4900	0.22	4.4	0.53
105J_1989_3215	0	0.5	695	1.18	13	18.0	24.0	10			6	908.1	4000	0.17	3.4	0.59
105J_1989_3216	0	0.7	749	0.99	30	28.4	36.0	14	13	27.76	7	807.9	4100	0.21	4.9	0.48
105J_1989_3217	0	0.6	639	1.12	14	19.6	25.0	14	10	28.56	6	936.1	7320	0.19	4.0	0.66
105J_1989_3218	0	1.3	1022	1.18	25	24.1	31.0	21	20	23.77	7	722.3	5100	0.24	6.1	0.43
105J_1989_3219	0	0.3	468	0.68	16	17.6	23.0	7			9	1020.0	9430	0.13	<0.5	1.14
105J_1989_3220	0	1.1	1158	1.02	20	25.9	33.0	18	18	27.46	6	820.2	5770	0.21	4.8	0.30
105J_1989_3222	0	1.1	1208	0.43	19	16.8	25.0	17	20	34.23	4	423.6	2200	0.21	1.7	0.04
105J_1989_3223	0	1.0	866	1.52	9	15.4	18.0	19	21	14.25	9	672.9	3200	0.20	3.7	0.59
105J_1989_3224	1	0.6	834	1.16	8	13.9	17.0	11			8	967.8	4000	0.19	2.9	0.55
105J_1989_3225	2	0.7	805	1.18	9	13.5	16.0	9			8	911.7	3600	0.18	2.0	0.49
105J_1989_3226	0	0.4	582	1.03	8	10.7	14.0	9			8	648.4	3600	0.15	2.3	0.44
105J_1989_3227	0	0.3	349	0.69	5	7.6	12.0	6			8	607.4	2900	0.22	0.6	0.98
105J_1989_3228	0	<0.2	346	0.89	7	9.0	13.0	5			6	554.4	3100	0.16	2.1	0.54
105J_1989_3229	0	<0.2	173	0.72	4	5.3	8.4	6			5	576.2	2500	0.10	2.6	0.63
105J_1989_3230	0	0.4	386	0.63	9	12.6	17.0	5			5	782.0	4100	0.15	1.2	0.45

Silt Data - GSC Open File 5694 / YGS Open File 2008-4

Unique ID	Rep Stat	Cd AAS	Cd ICP-MS	Ce INAA	Co AAS	Co ICP-MS	Co INAA	Cr ICP-MS	Cr INAA	Cs INAA	Cu AAS	Cu ICP-MS	Eu INAA	F ISE	Fe AAS	Fe ICP-MS	Fe INAA
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	pct	%	pct
		0.2	0.01	5	2	0.1	5	0.5	20	0.5	2	0.01	1	20	0.02	0.01	0.2
105J_1989_3195	0	17.6	17.48	41	11	10.9	15	28.6	81	4.5	86	81.52	<1	508	2.71	2.49	3.3
105J_1989_3196	0	5.4	5.97	46	11	11.1	20	23.1	89	6.4	78	78.54	1	721	2.91	2.91	4.1
105J_1989_3197	0	7.7	6.84	45	16	14.9	22	24.0	79	6.7	90	89.93	2	539	3.19	3.08	4.3
105J_1989_3198	0	5.6	6.33	43	6	6.1	8	30.5	97	3.7	98	104.99	2	506	2.21	1.88	2.3
105J_1989_3199	0	2.7	3.12	44	12	13.9	19	35.1	120	4.0	97	102.66	1	578	3.50	3.77	4.5
105J_1989_3200	0	7.9	7.52	43	33	34.1	47	25.7	76	4.1	110	109.07	1	708	3.31	3.36	4.1
105J_1989_3202	0	2.7	2.96	53	13	13.2	20	25.3	88	4.8	72	71.17	1	805	3.06	3.10	4.1
105J_1989_3203	0	7.9	7.41	52	9	9.4	13	27.8	100	4.2	88	90.07	1	519	3.18	3.09	4.1
105J_1989_3204	1	4.6	4.40	56	8	9.6	16	22.3	73	7.0	97	93.21	1	644	2.63	2.39	3.4
105J_1989_3205	2	4.6	4.70	57	8	9.9	15	23.5	73	7.0	95	96.68	2	697	2.50	2.46	3.5
105J_1989_3207	0	2.4	2.62	51	11	10.8	15	23.6	90	8.1	108	100.63	1	688	2.66	2.65	3.7
105J_1989_3208	0	4.6	4.79	63	12	12.9	19	25.4	73	6.7	93	91.51	1	905	2.87	2.89	3.9
105J_1989_3209	0	8.9	8.84	44	10	11.0	15	25.1	110	5.6	95	94.43	1	700	2.73	2.76	3.9
105J_1989_3210	0	10.3	10.50	55	13	13.4	20	29.4	110	4.9	110	114.09	2	677	2.82	2.87	3.9
105J_1989_3211	0	10.6	10.47	48	20	22.5	30	27.0	79	5.3	108	104.59	2	694	3.60	3.82	4.4
105J_1989_3212	0	5.0	5.15	53	13	13.0	20	26.3	100	5.2	86	87.86	2	779	3.00	3.24	3.9
105J_1989_3213	0	7.2	7.29	47	11	11.4	18	28.7	95	5.7	96	96.49	1	875	2.53	2.60	3.4
105J_1989_3214	0	3.3	3.25	54	15	14.5	23	23.8	89	6.8	90	86.33	1	669	3.55	3.69	5.1
105J_1989_3215	0	1.7	1.93	55	16	15.6	25	32.9	110	5.4	68	67.37	2	665	3.42	3.62	5.0
105J_1989_3216	0	5.2	4.77	71	13	13.5	19	23.1	110	6.8	80	75.72	<1	664	2.97	3.18	4.4
105J_1989_3217	0	4.8	5.24	78	16	17.6	22	24.8	97	5.3	87	94.40	<1	800	3.22	3.35	4.3
105J_1989_3218	0	3.8	3.93	56	15	15.8	18	32.5	130	5.4	121	124.06	1	567	3.55	3.71	5.1
105J_1989_3219	0	3.6	3.54	68	8	7.1	9	21.8	99	4.6	59	58.16	1	941	1.94	1.81	2.6
105J_1989_3220	0	4.6	4.51	62	13	13.8	17	33.8	120	6.3	110	105.09	1	630	3.38	3.54	4.4
105J_1989_3222	0	0.3	0.43	47	3	2.5	<5	40.7	160	6.4	71	67.75	<1	456	2.00	1.77	2.3
105J_1989_3223	0	4.4	4.90	69	15	15.7	16	27.9	71	7.3	118	117.50	<1	764	2.82	3.08	3.3
105J_1989_3224	1	3.5	3.64	58	10	9.7	10	27.3	79	5.0	65	70.36	<1	683	2.07	2.18	2.4
105J_1989_3225	2	3.1	3.00	49	10	9.1	11	26.0	77	5.1	71	68.95	<1	692	2.22	2.05	2.4
105J_1989_3226	0	2.8	2.95	62	9	8.5	9	24.0	88	4.6	59	59.40	<1	626	1.93	1.92	2.8
105J_1989_3227	0	1.6	1.58	66	9	8.1	11	15.1	57	4.9	38	38.46	1	536	1.57	1.59	2.4
105J_1989_3228	0	2.2	2.33	63	8	8.2	9	15.6	70	6.7	34	35.33	<1	747	1.90	1.82	2.8
105J_1989_3229	0	0.4	0.83	59	8	5.8	9	13.4	72	4.8	20	18.80	<1	508	1.55	1.44	2.2
105J_1989_3230	0	1.0	1.21	63	9	9.0	13	14.0	97	6.6	39	35.96	1	541	2.03	2.00	3.2

Unique ID	Rep Stat	Ga ICP-MS ppm 0.2	Hf INAA ppm 1	Hg CV-AAS ppb 10	Hg ICP-MS ppb 5	K ICP-MS % 0.01	La ICP-MS ppm 0.5	La INAA ppm 2	LOI GRAV pct 1.0	Lu INAA ppm 0.2	Mg ICP-MS % 0.01	Mn AAS ppm 5	Mn ICP-MS ppm 1	Mo AAS ppm 2	Mo ICP-MS ppm 0.01	Mo INAA ppm 1
105J_1989_3195	0	3.6	3	533	597	0.15	7.2	30	18.3	<0.2	0.35	3165	2730	7	8.57	11
105J_1989_3196	0	3.6	4	238	244	0.19	9.9	35	8.9	<0.2	0.40	984	1172	6	6.55	9
105J_1989_3197	0	3.7	3	288	335	0.19	11.5	37	10.7	<0.2	0.41	1197	1304	5	5.74	7
105J_1989_3198	0	3.4	3	378	477	0.14	9.5	34	14.4	<0.2	0.30	115	126	4	4.52	6
105J_1989_3199	0	3.5	3	446	464	0.15	9.7	36	15.4	<0.2	0.33	984	1176	7	8.86	10
105J_1989_3200	0	3.6	4	281	281	0.20	12.9	37	9.2	<0.2	0.42	2542	2758	5	5.76	7
105J_1989_3202	0	3.7	4	234	225	0.20	14.0	41	6.9	<0.2	0.48	590	669	4	4.54	7
105J_1989_3203	0	3.1	3	364	333	0.20	7.7	36	16.3	<0.2	0.29	1164	1295	10	11.49	15
105J_1989_3204	1	3.8	5	360	330	0.19	11.0	40	14.1	<0.2	0.48	296	343	5	4.87	7
105J_1989_3205	2	3.9	4	371	350	0.20	11.3	42	14.5	<0.2	0.49	284	340	5	5.28	8
105J_1989_3207	0	3.4	4	360	353	0.22	10.8	42	10.5	<0.2	0.43	351	419	5	5.75	8
105J_1989_3208	0	3.5	4	371	416	0.26	15.5	48	8.7	<0.2	0.48	264	337	5	4.70	7
105J_1989_3209	0	2.6	3	457	478	0.17	17.1	42	8.5	<0.2	0.34	850	949	14	14.26	17
105J_1989_3210	0	2.7	4	540	584	0.17	17.6	48	8.6	<0.2	0.53	681	763	26	29.13	33
105J_1989_3211	0	3.0	3	360	398	0.20	13.0	37	9.9	<0.2	0.28	984	1241	8	8.68	10
105J_1989_3212	0	3.0	4	374	386	0.22	14.7	41	8.3	<0.2	0.35	672	806	7	8.66	10
105J_1989_3213	0	2.5	3	371	377	0.17	10.5	40	6.7	<0.2	0.29	775	848	14	15.42	22
105J_1989_3214	0	3.0	4	389	401	0.21	14.1	47	8.5	<0.2	0.28	465	572	6	6.27	8
105J_1989_3215	0	3.6	5	295	311	0.21	15.8	46	9.0	<0.2	0.47	387	443	6	4.77	6
105J_1989_3216	0	3.0	3	389	398	0.21	11.4	36	8.4	<0.2	0.25	918	1106	6	6.18	8
105J_1989_3217	0	3.3	4	324	380	0.22	14.4	37	9.0	<0.2	0.36	1263	1561	6	5.33	6
105J_1989_3218	0	3.9	3	421	439	0.21	9.4	35	10.5	<0.2	0.35	1148	1501	7	7.71	8
105J_1989_3219	0	2.4	3	198	213	0.20	14.3	40	4.4	<0.2	0.44	274	290	7	6.64	8
105J_1989_3220	0	3.4	3	659	608	0.15	9.6	33	10.8	<0.2	0.21	984	1211	10	10.67	11
105J_1989_3222	0	3.2	2	748	626	0.13	7.6	31	9.1	<0.2	0.07	105	109	6	8.43	10
105J_1989_3223	0	4.8	3	510	516	0.29	16.0	31	9.8	<0.2	0.66	500	617	6	8.12	9
105J_1989_3224	1	3.7	2	317	345	0.24	13.8	26	8.6	<0.2	0.34	902	1086	4	6.37	8
105J_1989_3225	2	3.6	2	349	326	0.24	13.0	27	9.4	<0.2	0.33	588	654	3	5.78	6
105J_1989_3226	0	3.3	3	234	237	0.20	12.1	33	7.4	<0.2	0.32	350	409	2	4.62	5
105J_1989_3227	0	2.4	4	158	148	0.14	10.5	32	4.2	<0.2	0.45	404	424	<2	2.13	2
105J_1989_3228	0	2.7	4	128	119	0.16	13.1	32	6.9	<0.2	0.32	421	461	<2	2.84	3
105J_1989_3229	0	2.4	4	176	147	0.13	8.0	27	6.2	<0.2	0.25	251	272	<2	1.27	2
105J_1989_3230	0	2.1	5	180	204	0.14	9.2	36	5.9	<0.2	0.25	481	504	<2	4.07	5

Unique ID	Rep Stat	Na ICP-MS % 0.001	Na INAA pct 0.02	Ni AAS ppm 2	Ni ICP-MS ppm 0.1	P ICP-MS % 0.001	Pb AAS ppm 2	Pb ICP-MS ppm 0.01	Rb INAA ppm 5	S ICP-MS % 0.01	Sb HY-AAS ppm 0.2	Sb ICP-MS ppm 0.02	Sb INAA ppm 0.1	Sc ICP-MS ppm 0.1	Sc INAA ppm 0.2	Se ICP-MS ppm 0.1
105J_1989_3195	0	0.007	0.48	257	235.9	0.205	13	12.07	62	0.16	6.0	3.36	6.2	2.4	11.0	5.3
105J_1989_3196	0	0.004	0.40	92	93.8	0.185	13	12.00	77	0.08	3.1	2.26	4.1	2.7	12.0	3.9
105J_1989_3197	0	0.005	0.48	112	105.4	0.189	15	14.21	74	0.08	2.9	2.02	3.8	2.8	12.0	2.5
105J_1989_3198	0	0.006	0.45	68	71.8	0.186	19	19.05	60	0.16	2.0	2.10	3.2	2.5	11.0	5.4
105J_1989_3199	0	0.006	0.40	105	109.9	0.191	22	21.48	66	0.20	5.0	3.36	6.0	3.0	11.0	4.3
105J_1989_3200	0	0.005	0.33	218	207.1	0.184	20	16.25	70	0.10	3.4	2.44	4.5	3.8	11.0	2.2
105J_1989_3202	0	0.004	0.39	60	60.9	0.173	16	14.05	80	0.08	3.4	2.30	4.2	3.4	12.0	1.8
105J_1989_3203	0	0.007	0.38	111	108.1	0.200	22	22.82	66	0.28	6.0	3.96	6.9	2.5	11.0	3.8
105J_1989_3204	1	0.005	0.51	69	66.6	0.195	16	14.76	93	0.12	3.3	2.42	4.7	3.5	14.0	3.1
105J_1989_3205	2	0.005	0.52	68	69.1	0.194	16	15.46	86	0.13	3.2	2.49	4.6	3.7	14.0	3.2
105J_1989_3207	0	0.004	0.50	55	55.4	0.201	17	15.11	85	0.11	7.0	2.86	6.2	3.5	13.0	3.0
105J_1989_3208	0	0.004	0.28	65	66.0	0.335	17	14.67	81	0.16	5.0	3.37	5.8	4.3	13.0	2.3
105J_1989_3209	0	0.004	0.38	115	115.1	0.252	17	17.29	75	0.12	11.0	7.63	13.5	2.9	12.0	4.6
105J_1989_3210	0	0.005	0.38	155	159.3	0.209	17	16.41	76	0.13	18.0	12.92	21.3	3.1	12.0	6.3
105J_1989_3211	0	0.004	0.28	130	128.3	0.257	19	18.16	68	0.15	6.0	4.27	7.0	3.5	11.0	3.3
105J_1989_3212	0	0.005	0.30	90	91.4	0.253	17	17.22	76	0.15	6.0	4.77	8.3	3.6	11.0	3.0
105J_1989_3213	0	0.003	0.24	105	105.4	0.244	16	14.14	82	0.14	10.0	7.44	14.5	3.0	10.0	4.6
105J_1989_3214	0	0.005	0.36	74	71.4	0.217	18	16.37	80	0.11	7.0	4.23	8.6	4.3	14.0	2.8
105J_1989_3215	0	0.004	0.33	60	58.2	0.208	18	15.09	82	0.09	3.0	2.15	4.4	5.0	17.0	2.8
105J_1989_3216	0	0.005	0.34	69	67.2	0.217	20	17.53	97	0.11	5.0	3.52	7.4	3.0	11.0	2.5
105J_1989_3217	0	0.004	0.28	105	109.4	0.239	17	16.22	86	0.11	3.3	2.49	4.6	4.4	11.0	2.5
105J_1989_3218	0	0.006	0.30	108	110.8	0.194	23	21.58	81	0.23	4.0	3.16	6.2	3.2	10.0	4.1
105J_1989_3219	0	0.003	0.15	53	51.0	0.299	15	11.80	88	0.13	5.0	3.99	7.2	2.6	8.5	3.5
105J_1989_3220	0	0.003	0.23	108	101.8	0.189	19	15.97	68	0.14	6.0	4.16	8.1	3.1	8.7	5.5
105J_1989_3222	0	0.003	0.16	22	20.3	0.121	20	17.60	62	0.18	5.0	3.43	8.3	2.1	7.2	5.8
105J_1989_3223	0	0.005	0.27	72	72.7	0.191	21	17.80	92	0.08	6.0	3.48	6.1	4.1	8.5	3.3
105J_1989_3224	1	0.005	0.26	56	58.9	0.203	16	13.58	92	0.04	3.3	2.47	4.9	3.1	7.1	2.5
105J_1989_3225	2	0.006	0.28	54	53.9	0.183	14	13.46	82	0.05	3.6	2.40	4.5	3.1	8.2	2.6
105J_1989_3226	0	0.004	0.35	38	39.9	0.193	13	11.84	78	0.03	2.7	1.97	3.8	2.4	9.1	2.0
105J_1989_3227	0	0.007	0.56	33	33.4	0.108	11	9.73	71	0.19	1.6	1.23	2.6	2.5	8.5	1.5
105J_1989_3228	0	0.007	0.52	33	32.4	0.116	14	11.48	86	0.06	2.1	1.64	3.3	2.5	9.1	1.9
105J_1989_3229	0	0.009	0.57	22	22.0	0.115	9	8.01	75	0.06	1.0	0.74	1.7	2.1	8.1	1.6
105J_1989_3230	0	0.006	0.49	42	38.9	0.106	11	10.56	89	0.10	2.4	1.97	3.3	2.7	10.0	3.3

Unique ID	Rep Stat	Sm INAA	Sn AAS	Sr ICP-MS	Ta INAA	Tb INAA	Te ICP-MS	Th ICP-MS	Th INAA	Ti ICP-MS	Tl ICP-MS	U ICP-MS	U INAA	U NADNC	V AAS	V ICP-MS
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.5	0.5	0.5	0.02	0.1	0.2	0.001	0.02	0.1	0.2	0.5	5	2
105J_1989_3195	0	3.7	8	75.6	0.8	1.0	0.08	0.9	6.0	0.005	0.63	17.0	21.8	21.2	204	253
105J_1989_3196	0	4.1	6	53.3	1.2	1.1	0.07	1.8	7.8	0.006	0.31	11.0	16.0	12.9	111	121
105J_1989_3197	0	4.6	3	54.9	1.1	0.9	0.10	1.8	7.7	0.007	0.31	7.9	13.0	11.4	91	103
105J_1989_3198	0	4.8	9	74.4	1.0	1.1	0.04	0.9	6.6	0.005	0.28	8.6	11.0	10.7	72	103
105J_1989_3199	0	4.9	9	99.2	0.9	1.1	0.09	1.3	6.7	0.005	0.30	7.3	11.0	10.0	136	199
105J_1989_3200	0	5.6	8	75.6	1.4	1.0	0.06	2.5	8.4	0.005	0.21	3.2	7.8	7.0	75	97
105J_1989_3202	0	5.0	9	68.3	1.4	1.0	0.10	3.0	9.4	0.005	0.20	2.4	6.7	5.9	68	85
105J_1989_3203	0	4.7	9	128.8	0.7	1.1	0.16	1.0	6.4	0.004	0.34	6.4	11.0	10.6	140	177
105J_1989_3204	1	5.5	12	118.4	1.2	1.1	0.07	2.6	9.2	0.003	0.31	3.6	8.0	7.5	79	90
105J_1989_3205	2	5.5	10	117.1	1.1	1.2	0.06	2.6	9.4	0.003	0.33	3.8	7.9	6.9	77	95
105J_1989_3207	0	5.1	6	93.4	1.2	0.9	0.05	2.8	11.0	0.003	0.24	3.7	8.1	7.2	66	101
105J_1989_3208	0	6.0	8	126.5	1.3	1.1	0.07	3.4	9.2	0.006	0.29	3.0	6.8	6.3	84	121
105J_1989_3209	0	5.3	5	126.1	0.9	0.9	0.12	1.8	7.6	0.006	0.44	5.7	11.0	9.3	119	176
105J_1989_3210	0	5.9	6	102.0	0.8	1.4	0.14	1.7	8.3	0.006	0.83	7.4	13.0	11.1	219	357
105J_1989_3211	0	5.2	5	99.4	1.1	1.1	0.12	2.3	7.3	0.007	0.31	4.8	8.5	8.2	112	151
105J_1989_3212	0	5.8	4	116.1	1.0	1.2	0.11	2.5	8.4	0.007	0.29	5.0	10.0	8.1	118	161
105J_1989_3213	0	5.8	6	115.9	1.1	1.4	0.12	1.9	7.6	0.005	0.41	6.1	13.0	10.2	160	222
105J_1989_3214	0	6.3	4	89.9	1.4	1.4	0.13	2.4	8.7	0.005	0.28	4.1	9.5	7.9	101	125
105J_1989_3215	0	5.9	4	58.8	1.7	1.3	0.08	3.2	9.1	0.003	0.26	2.7	7.6	6.9	63	82
105J_1989_3216	0	5.6	4	92.7	1.0	0.7	0.12	1.6	8.1	0.005	0.23	3.2	7.1	6.7	85	124
105J_1989_3217	0	6.1	5	78.3	1.4	0.9	0.08	2.8	8.9	0.004	0.24	3.9	8.2	7.8	72	100
105J_1989_3218	0	6.0	3	100.8	1.0	1.0	0.15	1.8	7.4	0.005	0.22	6.0	10.0	9.3	95	161
105J_1989_3219	0	5.6	4	117.8	0.8	0.8	0.07	3.2	7.4	0.006	0.21	3.5	7.2	6.5	85	156
105J_1989_3220	0	5.8	2	75.8	0.7	0.9	0.10	1.9	6.5	0.005	0.29	8.1	13.0	12.1	128	199
105J_1989_3222	0	5.6	1	63.9	0.8	0.8	0.13	0.8	5.5	0.003	0.20	6.4	12.0	11.1	156	193
105J_1989_3223	0	5.6	3	91.2	0.7	0.8	0.07	3.9	9.2	0.005	0.38	5.1	9.3	8.9	98	145
105J_1989_3224	1	4.8	5	73.5	0.9	0.8	0.10	2.4	7.6	0.005	0.31	4.5	7.9	6.9	90	158
105J_1989_3225	2	4.4	3	68.7	0.9	0.6	0.07	2.2	6.7	0.005	0.31	4.3	7.1	7.0	106	157
105J_1989_3226	0	5.0	3	63.3	0.9	0.7	0.05	1.5	7.1	0.006	0.25	3.9	7.1	6.4	81	121
105J_1989_3227	0	4.7	4	61.1	0.9	0.7	0.07	3.7	8.2	0.010	0.18	1.4	4.3	3.4	39	51
105J_1989_3228	0	4.6	5	47.1	0.9	0.6	0.08	3.2	8.3	0.010	0.19	2.1	4.9	4.2	46	59
105J_1989_3229	0	4.1	6	51.2	0.9	<0.5	0.05	2.6	6.8	0.006	0.14	1.0	3.2	2.8	37	43
105J_1989_3230	0	5.1	2	52.9	1.0	0.7	0.09	3.3	8.8	0.004	0.25	2.0	5.4	4.7	44	52

Unique ID	Rep Stat	W ICP-MS ppm 0.1	W INAA ppm 1	wt INAA g 0.01	Yb INAA ppm 2	Zn AAS ppm 2	Zn ICP-MS ppm 0.1
105J_1989_3195	0	<0.1	<1	27.92	3	2335	2154.6
105J_1989_3196	0	<0.1	1	20.16	3	680	636.7
105J_1989_3197	0	<0.1	2	36.42	3	791	708.7
105J_1989_3198	0	<0.1	<1	27.83	3	420	403.7
105J_1989_3199	0	<0.1	<1	30.48	3	479	471.1
105J_1989_3200	0	<0.1	<1	39.95	3	1110	1125.6
105J_1989_3202	0	<0.1	<1	27.91	3	344	347.0
105J_1989_3203	0	<0.1	2	29.41	3	698	611.7
105J_1989_3204	1	<0.1	1	20.05	3	464	425.9
105J_1989_3205	2	<0.1	<1	38.25	3	472	442.9
105J_1989_3207	0	<0.1	2	34.49	3	326	296.5
105J_1989_3208	0	0.3	2	25.35	4	412	403.6
105J_1989_3209	0	0.1	1	37.89	4	973	922.4
105J_1989_3210	0	0.2	<1	38.46	4	1410	1486.4
105J_1989_3211	0	0.3	1	28.81	3	942	892.5
105J_1989_3212	0	0.4	3	39.39	3	650	632.7
105J_1989_3213	0	0.1	<1	46.54	3	854	806.2
105J_1989_3214	0	0.1	1	35.90	3	406	396.1
105J_1989_3215	0	<0.1	<1	40.13	3	283	266.5
105J_1989_3216	0	0.1	2	38.36	3	457	428.0
105J_1989_3217	0	<0.1	2	29.40	3	569	578.4
105J_1989_3218	0	<0.1	1	36.10	3	533	516.2
105J_1989_3219	0	0.1	1	55.70	2	309	291.2
105J_1989_3220	0	<0.1	2	34.32	3	453	433.2
105J_1989_3222	0	<0.1	2	36.78	3	62	56.2
105J_1989_3223	0	<0.1	<1	24.19	2	446	435.0
105J_1989_3224	1	<0.1	1	18.16	<2	337	348.9
105J_1989_3225	2	<0.1	1	33.75	2	321	326.6
105J_1989_3226	0	<0.1	1	41.32	2	236	235.4
105J_1989_3227	0	0.1	2	52.30	<2	150	147.6
105J_1989_3228	0	<0.1	1	42.69	2	244	232.0
105J_1989_3229	0	<0.1	<1	32.80	<2	124	117.3
105J_1989_3230	0	<0.1	2	50.88	2	174	169.7

Unique ID	Rep Stat	Ag AAS	Ag ICP-MS	Al ICP-MS	As HY-AAS	As ICP-MS	As INAA	Au INAA	Au1 INAA	Au1_wt -	B ICP-MS	Ba ICP-MS	Ba INAA	Bi ICP-MS	Br INAA	Ca ICP-MS
		ppm	ppb	%	ppm	ppm	ppm	ppb	ppb	g	ppm	ppm	ppm	ppm	ppm	%
		0.2	2	0.01	1	0.1	0.5	2	2	0.01	1	0.5	50	0.02	0.5	0.01
105J_1989_3231	0	<0.2	345	0.99	5	8.5	10.0	3			6	864.9	2700	0.20	2.0	0.29
105J_1989_3232	0	0.2	410	0.81	5	6.6	9.1	5			5	709.4	2700	0.14	1.9	0.42
105J_1989_3233	0	0.2	319	0.83	4	6.8	8.5	4			6	506.4	2200	0.17	6.0	0.76
105J_1989_3234	0	0.3	264	0.96	3	3.6	5.0	6			5	371.6	2200	0.11	3.9	0.92
105J_1989_3235	0	0.4	342	1.16	5	7.1	10.0	10			7	623.3	4000	0.12	1.8	0.37
105J_1989_3236	0	<0.2	160	0.89	3	3.6	5.3	2			4	455.7	2600	0.07	11.0	0.63
105J_1989_3238	0	0.2	207	0.80	1	1.5	2.8	3			5	283.4	1500	0.13	11.0	1.06
105J_1989_3239	0	<0.2	131	0.27	6	9.6	10.0	2			11	350.2	540	0.06	36.0	3.01
105J_1989_3240	0	0.2	246	1.24	5	10.6	13.0	8			6	434.5	1900	0.14	18.0	1.04
105J_1989_3242	0	0.6	745	1.64	15	26.4	29.0	8			3	203.2	1700	0.37	7.6	0.62
105J_1989_3243	1	0.3	386	0.72	8	14.2	18.0	6			4	1011.0	3600	0.20	1.8	0.38
105J_1989_3244	2	0.4	342	0.69	10	14.3	18.0	4			6	1000.6	3600	0.19	1.7	0.36
105J_1989_3245	0	<0.2	320	0.83	9	13.8	17.0	7			5	693.6	2800	0.20	2.8	0.48
105J_1989_3246	0	0.3	215	0.82	52	58.7	69.9	7			2	454.6	2700	0.22	2.7	0.40
105J_1989_3247	0	<0.2	193	0.26	2	1.5	3.0	<2			17	71.1	810	0.05	19.0	3.13
105J_1989_3248	0	0.2	363	1.29	14	22.6	26.0	<2			2	418.3	2800	0.26	3.5	0.31
105J_1989_3249	0	0.5	482	1.41	8	10.0	13.0	5			3	526.1	3400	0.21	2.3	0.41
105J_1989_3251	0	0.2	404	0.79	6	8.7	11.0	5			4	485.4	2200	0.27	10.0	0.50
105J_1989_3252	0	<0.2	184	0.97	6	8.2	11.0	4			4	231.8	1600	0.23	2.8	0.52
105J_1989_3253	0	0.5	620	0.94	6	10.0	12.0	4			6	297.9	1500	0.20	10.0	1.30
105J_1989_3254	0	<0.2	156	0.90	5	7.2	9.2	3			3	223.9	1300	0.41	4.9	0.44
105J_1989_3255	0	<0.2	297	0.94	3	5.3	7.9	6			5	303.3	2000	0.17	3.9	0.52
105J_1989_3256	0	<0.2	287	1.25	7	15.4	16.0	6			4	261.8	930	0.25	8.0	0.91
105J_1989_3257	0	<0.2	72	1.14	5	7.7	10.0	3			4	140.8	840	0.18	1.9	0.45
105J_1989_3258	0	<0.2	116	0.80	2	3.4	4.8	4			12	250.0	960	0.15	8.5	2.92
105J_1989_3259	0	<0.2	101	0.81	4	5.6	7.6	<2			6	354.4	1300	0.18	3.4	0.57
105J_1989_3260	0	<0.2	229	0.93	7	12.7	14.0	<2			7	272.2	1300	0.23	11.0	1.42
105J_1989_3262	0	<0.2	44	0.61	2	2.7	4.0	<2			6	183.8	950	0.13	5.1	0.52
105J_1989_3263	0	<0.2	151	0.80	9	14.8	17.0	3			5	335.6	1600	0.23	2.0	0.50
105J_1989_3264	0	<0.2	177	1.14	9	14.5	15.0	3			6	271.7	1400	0.38	11.0	0.62
105J_1989_3265	0	<0.2	204	0.89	6	9.5	11.0	5			4	580.4	2300	0.21	3.4	0.46
105J_1989_3266	0	0.4	370	0.94	4	5.4	7.6	8			2	283.5	1700	0.23	3.0	0.62
105J_1989_3267	0	<0.2	325	0.61	5	7.4	7.6	<2			5	151.0	510	0.13	17.0	1.88

Unique ID	Rep Stat	Cd AAS	Cd ICP-MS	Ce INAA	Co AAS	Co ICP-MS	Co INAA	Cr ICP-MS	Cr INAA	Cs INAA	Cu AAS	Cu ICP-MS	Eu INAA	F ISE	Fe AAS	Fe ICP-MS	Fe INAA
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	pct	%	pct
		0.2	0.01	5	2	0.1	5	0.5	20	0.5	2	0.01	1	20	0.02	0.01	0.2
105J_1989_3231	0	1.6	1.74	75	10	10.0	12	16.6	73	5.4	38	35.77	<1	404	2.37	2.34	3.3
105J_1989_3232	0	2.9	3.05	64	8	6.8	9	16.8	81	4.8	36	34.50	1	512	1.61	1.42	2.4
105J_1989_3233	0	0.4	0.99	60	7	7.1	8	13.3	72	4.8	36	36.98	<1	528	2.63	2.35	3.1
105J_1989_3234	0	0.8	1.05	67	7	6.1	9	15.1	58	3.8	34	31.36	<1	633	1.69	1.49	2.2
105J_1989_3235	0	0.5	0.97	46	9	7.2	11	18.7	54	5.3	41	40.92	<1	575	1.79	1.75	2.7
105J_1989_3236	0	<0.2	0.40	62	6	4.6	7	12.7	51	3.3	14	13.53	<1	566	1.79	1.62	2.7
105J_1989_3238	0	1.1	1.34	51	5	5.2	8	11.0	60	3.0	24	22.67	<1	403	0.94	0.83	1.5
105J_1989_3239	0	1.3	1.57	11	10	10.8	12	3.4	<20	<0.5	29	25.56	<1	71	2.06	2.57	3.0
105J_1989_3240	0	0.4	0.96	66	11	11.0	14	21.6	45	7.8	37	36.50	<1	578	4.13	3.97	5.3
105J_1989_3242	0	1.6	2.24	87	11	11.4	13	18.0	68	20.0	40	39.57	2	408	3.03	3.10	3.9
105J_1989_3243	1	1.9	2.12	77	14	11.3	14	16.0	65	6.3	39	40.99	<1	415	2.15	2.15	3.1
105J_1989_3244	2	1.6	1.93	75	9	8.9	12	14.9	71	6.1	38	39.43	<1	485	2.13	2.09	3.0
105J_1989_3245	0	1.3	1.42	74	10	9.6	12	15.0	61	7.1	37	34.67	<1	463	2.32	2.21	2.9
105J_1989_3246	0	0.4	1.08	68	13	11.2	12	13.5	67	8.5	30	28.64	<1	407	2.31	2.36	2.8
105J_1989_3247	0	0.6	1.20	18	4	4.0	5	4.0	<20	1.3	36	34.49	<1	144	0.86	1.05	1.2
105J_1989_3248	0	5.8	5.53	98	25	25.3	31	16.6	68	10.0	40	39.37	1	486	3.13	3.19	4.4
105J_1989_3249	0	1.2	1.45	97	11	9.6	15	19.7	82	15.0	51	50.30	1	473	2.23	1.86	2.9
105J_1989_3251	0	0.3	0.81	100	9	8.2	12	13.4	63	4.2	31	30.01	<1	460	2.24	2.32	3.5
105J_1989_3252	0	0.4	0.69	75	10	10.4	16	18.7	71	5.3	30	29.79	<1	388	2.36	2.35	3.5
105J_1989_3253	0	4.1	3.94	54	9	9.8	12	13.1	65	5.1	49	48.64	<1	370	2.47	2.41	3.0
105J_1989_3254	0	0.2	0.63	85	11	8.9	14	19.2	77	4.8	32	32.65	<1	274	1.95	1.84	2.7
105J_1989_3255	0	0.4	0.89	66	10	9.1	13	15.5	76	5.6	26	25.60	<1	340	2.11	1.97	3.5
105J_1989_3256	0	1.4	1.66	53	7	6.7	9	17.8	35	5.0	54	55.17	<1	325	3.65	3.71	4.5
105J_1989_3257	0	<0.2	0.26	77	13	12.9	17	20.1	69	5.6	23	23.60	<1	396	2.53	2.64	3.6
105J_1989_3258	0	<0.2	0.63	52	11	12.9	15	16.3	49	3.3	27	24.91	<1	233	2.39	2.79	3.4
105J_1989_3259	0	<0.2	0.50	93	15	13.4	19	19.3	92	4.6	27	25.55	<1	331	2.52	2.57	3.9
105J_1989_3260	0	0.4	0.89	87	14	14.5	18	18.4	62	9.3	36	34.59	<1	349	2.96	3.01	3.9
105J_1989_3262	0	<0.2	0.21	59	9	8.7	13	15.3	72	2.8	14	13.85	<1	289	2.04	1.99	3.1
105J_1989_3263	0	<0.2	0.71	88	15	13.7	17	18.8	66	3.7	31	31.76	<1	350	2.85	2.79	4.0
105J_1989_3264	0	0.9	1.30	69	13	12.7	16	20.4	67	5.0	43	42.99	<1	392	2.70	2.72	3.5
105J_1989_3265	0	0.4	0.68	84	10	9.2	11	16.8	84	5.6	40	36.19	1	390	2.36	2.32	3.2
105J_1989_3266	0	1.6	1.73	91	10	9.4	11	15.4	77	5.8	52	53.82	<1	370	1.59	1.46	2.1
105J_1989_3267	0	1.9	2.19	47	2	2.4	8	5.1	<20	3.7	63	64.09	1	241	0.44	0.48	1.3

Unique ID	Rep Stat	Ga ICP-MS ppm 0.2	Hf INAA ppm 1	Hg CV-AAS ppb 10	Hg ICP-MS ppb 5	K ICP-MS % 0.01	La ICP-MS ppm 0.5	La INAA ppm 2	LOI GRAV pct 1.0	Lu INAA ppm 0.2	Mg ICP-MS % 0.01	Mn AAS ppm 5	Mn ICP-MS ppm 1	Mo AAS ppm 2	Mo ICP-MS ppm 0.01	Mo INAA ppm 1
105J_1989_3231	0	3.0	4	187	210	0.18	10.2	31	8.1	<0.2	0.32	507	566	<2	1.99	2
105J_1989_3232	0	2.8	4	235	297	0.16	9.1	32	8.0	<0.2	0.25	453	457	<2	3.51	4
105J_1989_3233	0	2.4	3	374	440	0.17	9.3	31	14.2	<0.2	0.32	289	278	<2	1.75	2
105J_1989_3234	0	3.0	4	164	173	0.15	13.3	30	13.3	<0.2	0.46	272	247	<2	1.01	1
105J_1989_3235	0	3.9	3	151	146	0.23	14.4	28	6.7	<0.2	0.47	454	509	<2	2.54	4
105J_1989_3236	0	2.7	3	79	81	0.12	10.4	32	12.4	<0.2	0.34	566	523	<2	0.42	<1
105J_1989_3238	0	2.1	3	112	127	0.11	8.4	24	24.2	<0.2	0.25	190	176	<2	0.21	<1
105J_1989_3239	0	0.5	<1	135	126	0.07	1.6	4	76.4	<0.2	0.40	7429	4846	<2	1.03	2
105J_1989_3240	0	3.9	3	101	86	0.14	19.3	33	19.4	<0.2	0.77	2116	1964	<2	1.46	1
105J_1989_3242	0	5.1	4	61	62	0.14	35.3	50	10.9	<0.2	0.59	346	399	<2	1.70	<1
105J_1989_3243	1	2.3	5	187	221	0.13	12.1	36	6.9	<0.2	0.19	376	410	<2	3.52	3
105J_1989_3244	2	2.3	5	176	207	0.13	11.9	37	6.2	<0.2	0.18	307	349	<2	3.43	4
105J_1989_3245	0	2.6	5	119	126	0.14	15.8	34	6.7	<0.2	0.37	412	457	<2	2.35	2
105J_1989_3246	0	2.6	6	72	65	0.11	17.3	38	5.8	<0.2	0.33	430	474	<2	1.77	<1
105J_1989_3247	0	0.6	<1	112	110	0.03	1.4	7	69.2	<0.2	0.37	4674	3442	<2	1.03	2
105J_1989_3248	0	3.3	5	68	78	0.14	24.7	47	9.6	<0.2	0.37	724	821	<2	2.75	2
105J_1989_3249	0	4.1	4	47	44	0.16	27.5	46	10.2	<0.2	0.51	170	183	<2	2.41	2
105J_1989_3251	0	2.4	5	94	97	0.10	13.7	46	9.8	<0.2	0.33	324	364	<2	1.20	<1
105J_1989_3252	0	3.3	5	79	88	0.17	13.3	37	8.5	<0.2	0.39	417	464	<2	0.92	<1
105J_1989_3253	0	2.4	3	76	76	0.11	13.5	25	25.1	<0.2	0.32	875	760	<2	1.24	<1
105J_1989_3254	0	3.0	6	76	87	0.15	14.4	35	8.2	<0.2	0.33	122	133	<2	1.22	<1
105J_1989_3255	0	2.7	4	97	109	0.11	8.7	34	9.7	<0.2	0.30	626	623	<2	0.98	<1
105J_1989_3256	0	3.0	3	169	170	0.09	14.0	30	27.4	<0.2	0.28	181	193	<2	0.90	<1
105J_1989_3257	0	3.8	5	54	37	0.18	23.2	40	7.4	<0.2	0.50	253	291	<2	0.46	<1
105J_1989_3258	0	2.7	3	90	100	0.15	6.4	24	25.3	<0.2	0.41	1181	1186	<2	0.41	<1
105J_1989_3259	0	2.8	8	72	65	0.15	12.7	40	7.1	<0.2	0.40	636	701	<2	0.87	<1
105J_1989_3260	0	3.2	3	104	114	0.17	13.9	36	22.4	<0.2	0.41	2050	1912	<2	0.83	<1
105J_1989_3262	0	2.2	5	295	71	0.10	7.2	30	8.6	<0.2	0.29	787	776	<2	0.37	<1
105J_1989_3263	0	3.0	7	86	96	0.15	13.7	40	6.9	<0.2	0.35	209	252	<2	1.47	<1
105J_1989_3264	0	3.8	4	76	63	0.19	13.3	32	10.6	<0.2	0.48	1132	1282	<2	1.45	1
105J_1989_3265	0	2.9	7	104	97	0.14	16.1	42	7.1	<0.2	0.41	121	144	<2	1.40	<1
105J_1989_3266	0	2.5	4	176	208	0.13	16.9	40	13.1	<0.2	0.33	249	242	2	2.35	2
105J_1989_3267	0	1.0	2	101	113	0.03	21.8	31	41.6	<0.2	0.13	421	409	<2	1.04	1

Unique ID	Rep Stat	Na ICP-MS % 0.001	Na INAA pct 0.02	Ni AAS ppm 2	Ni ICP-MS ppm 0.1	P ICP-MS % 0.001	Pb AAS ppm 2	Pb ICP-MS ppm 0.01	Rb INAA ppm 5	S ICP-MS % 0.01	Sb HY-AAS ppm 0.2	Sb ICP-MS ppm 0.02	Sb INAA ppm 0.1	Sc ICP-MS ppm 0.1	Sc INAA ppm 0.2	Se ICP-MS ppm 0.1
105J_1989_3231	0	0.009	0.59	33	31.8	0.095	12	10.92	85	0.09	1.5	1.18	2.3	2.9	9.5	1.6
105J_1989_3232	0	0.009	0.55	32	31.5	0.108	9	8.16	77	0.04	2.0	1.76	3.5	2.3	8.4	2.8
105J_1989_3233	0	0.010	0.55	34	32.5	0.093	12	9.77	89	0.07	1.2	1.12	1.9	3.3	10.0	2.1
105J_1989_3234	0	0.010	0.69	22	19.8	0.108	10	7.67	73	0.04	0.9	0.89	1.4	2.9	8.6	1.0
105J_1989_3235	0	0.008	0.47	26	25.1	0.123	9	7.97	110	0.02	1.5	1.29	2.7	2.6	7.8	1.0
105J_1989_3236	0	0.007	0.63	16	16.4	0.150	6	4.69	81	0.11	0.4	0.32	0.7	1.5	7.9	1.1
105J_1989_3238	0	0.012	0.60	13	14.0	0.103	9	7.33	65	0.27	0.3	0.37	0.6	1.5	6.8	1.1
105J_1989_3239	0	0.006	0.08	15	17.9	0.152	7	2.51	9	0.48	0.5	0.90	0.9	0.6	1.6	1.8
105J_1989_3240	0	0.011	0.71	28	27.0	0.123	14	10.88	75	0.11	1.3	1.49	2.4	4.0	11.0	2.3
105J_1989_3242	0	0.011	0.65	34	33.8	0.104	36	35.06	140	0.04	2.1	1.71	3.3	4.8	15.0	1.6
105J_1989_3243	1	0.008	0.52	41	40.8	0.105	14	12.25	86	0.03	3.2	2.53	4.6	2.6	9.0	2.6
105J_1989_3244	2	0.008	0.50	37	37.1	0.105	12	11.60	85	0.01	3.0	2.49	4.6	2.4	8.9	2.1
105J_1989_3245	0	0.008	0.44	31	29.8	0.103	17	14.09	90	0.06	3.0	2.26	4.1	2.7	8.7	2.1
105J_1989_3246	0	0.006	0.46	34	32.4	0.088	16	13.59	97	0.06	5.0	3.68	7.1	2.6	9.1	1.1
105J_1989_3247	0	0.011	0.34	32	29.6	0.078	6	2.67	19	1.21	0.8	1.31	1.5	0.8	2.4	4.2
105J_1989_3248	0	0.010	0.82	59	58.7	0.084	22	18.74	120	0.06	2.1	1.98	3.7	2.9	13.0	2.5
105J_1989_3249	0	0.011	0.83	34	34.8	0.128	22	20.64	110	0.06	1.3	1.30	2.5	2.6	12.0	2.6
105J_1989_3251	0	0.017	0.73	25	24.7	0.105	17	14.17	95	0.04	0.9	0.95	1.7	2.1	11.0	1.1
105J_1989_3252	0	0.012	0.90	29	27.8	0.082	15	13.90	98	0.03	1.0	0.93	1.8	2.9	11.0	1.3
105J_1989_3253	0	0.019	0.88	43	42.9	0.085	14	12.70	65	0.14	0.7	0.85	1.3	2.3	8.2	8.1
105J_1989_3254	0	0.011	0.72	24	24.0	0.079	22	17.30	83	0.05	1.3	1.41	2.2	3.0	10.0	1.7
105J_1989_3255	0	0.013	1.00	27	25.3	0.076	14	12.25	88	0.03	0.9	0.61	1.5	2.7	12.0	1.0
105J_1989_3256	0	0.018	0.94	25	26.3	0.108	10	9.72	62	0.62	0.7	0.71	1.0	3.5	8.2	2.9
105J_1989_3257	0	0.010	0.68	25	26.7	0.069	18	14.31	110	0.03	0.8	0.62	1.3	2.9	11.0	0.6
105J_1989_3258	0	0.106	0.79	23	22.5	0.064	13	10.41	70	0.39	0.3	0.39	0.7	2.7	7.6	0.5
105J_1989_3259	0	0.013	0.85	27	26.9	0.068	17	14.00	96	0.06	0.7	0.70	1.4	3.2	11.0	0.6
105J_1989_3260	0	0.012	0.68	33	30.8	0.074	24	19.91	110	0.15	1.0	1.13	2.0	3.2	10.0	1.7
105J_1989_3262	0	0.013	0.89	20	19.6	0.049	12	11.12	76	0.04	0.3	0.27	0.6	2.1	9.4	<0.1
105J_1989_3263	0	0.012	0.77	28	27.8	0.081	19	16.50	85	0.07	1.3	1.24	2.1	3.1	11.0	1.0
105J_1989_3264	0	0.019	0.72	31	31.2	0.083	24	21.81	87	0.05	1.2	1.31	2.0	3.2	9.4	1.6
105J_1989_3265	0	0.011	0.65	30	26.2	0.101	18	14.13	95	0.05	1.5	1.53	2.4	3.0	10.0	1.1
105J_1989_3266	0	0.010	0.66	43	43.9	0.081	17	15.88	94	0.12	1.8	2.03	3.1	2.9	10.0	1.9
105J_1989_3267	0	0.045	1.40	17	17.2	0.099	6	5.04	28	0.48	1.3	2.01	2.0	0.9	4.5	2.0

Unique ID	Rep Stat	Sm INAA	Sn AAS	Sr ICP-MS	Ta INAA	Tb INAA	Te ICP-MS	Th ICP-MS	Th INAA	Ti ICP-MS	Tl ICP-MS	U ICP-MS	U INAA	U NADNC	V AAS	V ICP-MS
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.5	0.5	0.5	0.02	0.1	0.2	0.001	0.02	0.1	0.2	0.5	5	2
105J_1989_3231	0	4.6	2	47.1	0.9	<0.5	0.07	3.6	8.8	0.005	0.28	1.4	4.3	3.7	44	54
105J_1989_3232	0	4.4	4	43.1	0.8	0.6	0.08	2.5	7.8	0.005	0.30	2.1	4.9	4.5	67	91
105J_1989_3233	0	4.3	5	54.3	1.0	<0.5	0.05	3.1	8.9	0.003	0.25	1.6	4.4	4.2	36	49
105J_1989_3234	0	4.1	6	64.4	1.1	<0.5	0.05	2.7	7.9	0.006	0.18	0.9	3.5	3.1	35	44
105J_1989_3235	0	4.5	4	51.9	1.0	0.6	0.07	3.2	8.4	0.007	0.23	2.1	6.0	4.7	48	74
105J_1989_3236	0	4.7	4	70.1	0.7	0.5	0.04	2.3	7.2	0.006	0.14	1.6	4.0	3.4	31	43
105J_1989_3238	0	3.2	1	96.2	0.6	<0.5	0.02	1.9	6.3	0.005	0.13	2.2	4.2	4.5	26	30
105J_1989_3239	0	0.6	15	218.2	<0.5	<0.5	0.03	0.3	1.3	0.002	0.05	3.1	3.5	3.8	15	11
105J_1989_3240	0	4.6	10	63.1	1.1	0.5	0.04	2.9	8.2	0.011	0.15	0.8	3.0	3.3	37	42
105J_1989_3242	0	8.3	7	40.6	1.5	1.0	0.04	4.7	12.0	0.017	0.23	1.4	4.5	4.4	44	46
105J_1989_3243	1	5.7	3	55.1	0.9	0.7	0.04	3.5	10.0	0.005	0.22	2.0	5.4	5.1	57	70
105J_1989_3244	2	5.5	5	54.2	1.0	0.7	0.07	3.5	10.0	0.005	0.20	1.9	5.1	4.5	56	68
105J_1989_3245	0	5.3	5	51.2	0.9	0.6	0.03	3.8	9.1	0.008	0.16	1.3	4.2	3.9	46	54
105J_1989_3246	0	6.2	7	50.6	0.9	0.6	0.05	4.2	11.0	0.006	0.14	1.1	4.5	4.0	35	41
105J_1989_3247	0	1.0	18	170.6	<0.5	<0.5	<0.02	0.4	2.1	0.003	0.08	2.0	2.7	2.8	18	9
105J_1989_3248	0	7.4	5	42.5	1.0	1.1	0.04	5.7	12.0	0.009	0.20	1.9	5.3	5.1	36	42
105J_1989_3249	0	7.1	7	51.8	1.1	1.0	0.03	3.2	11.0	0.011	0.29	2.6	6.2	5.8	52	80
105J_1989_3251	0	6.5	6	48.4	1.1	0.8	0.04	3.5	12.0	0.008	0.13	1.0	3.8	3.7	32	38
105J_1989_3252	0	5.2	3	57.9	1.1	0.6	0.05	3.5	10.0	0.030	0.16	0.8	3.4	3.4	31	35
105J_1989_3253	0	3.8	10	130.2	0.7	<0.5	0.05	2.1	6.8	0.008	0.16	1.8	3.8	4.1	23	25
105J_1989_3254	0	5.1	4	38.3	1.1	0.7	0.02	3.3	11.0	0.024	0.14	1.0	3.7	3.5	30	34
105J_1989_3255	0	4.9	7	43.3	0.9	0.7	0.02	2.3	9.4	0.008	0.12	0.9	3.8	3.3	29	33
105J_1989_3256	0	4.3	8	66.1	<0.5	0.6	0.02	1.9	7.3	0.011	0.25	4.0	5.8	5.7	26	30
105J_1989_3257	0	5.9	5	34.0	1.1	0.8	0.05	4.7	13.0	0.013	0.14	0.6	3.7	3.4	29	27
105J_1989_3258	0	3.9	16	178.5	0.9	<0.5	<0.02	2.0	8.6	0.019	0.10	0.9	3.1	2.9	29	23
105J_1989_3259	0	6.0	3	51.8	1.3	0.8	<0.02	4.3	14.0	0.034	0.11	0.7	4.1	3.6	30	30
105J_1989_3260	0	5.0	13	107.8	1.2	0.6	0.03	3.4	11.0	0.010	0.20	1.1	3.6	3.7	28	27
105J_1989_3262	0	4.2	6	48.4	1.0	0.5	0.04	2.6	9.4	0.021	0.08	0.4	2.5	2.3	24	24
105J_1989_3263	0	5.7	6	40.7	1.3	0.7	0.08	4.3	12.0	0.031	0.12	0.8	4.3	3.9	34	33
105J_1989_3264	0	4.8	4	51.1	0.8	0.7	0.04	3.0	9.1	0.033	0.19	1.3	3.8	3.8	43	45
105J_1989_3265	0	6.0	6	51.2	1.1	0.7	0.05	4.6	12.0	0.015	0.14	1.3	4.7	4.1	36	39
105J_1989_3266	0	5.5	5	57.8	1.0	0.8	0.05	5.0	12.0	0.004	0.19	2.9	6.2	6.3	46	63
105J_1989_3267	0	4.4	10	138.7	<0.5	0.7	0.04	0.5	5.5	0.012	0.07	12.7	14.0	15.0	14	7

Unique ID	Rep Stat	W ICP-MS ppm 0.1	W INAA ppm 1	wt INAA g 0.01	Yb INAA ppm 2	Zn AAS ppm 2	Zn ICP-MS ppm 0.1
105J_1989_3231	0	0.2	2	18.56	2	190	182.3
105J_1989_3232	0	0.1	1	43.57	<2	275	255.3
105J_1989_3233	0	<0.1	<1	29.28	2	139	130.9
105J_1989_3234	0	<0.1	<1	34.25	<2	120	108.2
105J_1989_3235	0	<0.1	<1	45.40	<2	129	127.6
105J_1989_3236	0	<0.1	1	37.78	<2	105	99.7
105J_1989_3238	0	<0.1	<1	23.25	<2	112	103.5
105J_1989_3239	0	<0.1	<1	15.55	<2	100	90.6
105J_1989_3240	0	<0.1	<1	23.79	3	143	123.6
105J_1989_3242	0	<0.1	3	31.22	3	276	264.2
105J_1989_3243	1	0.3	1	23.73	2	231	218.6
105J_1989_3244	2	0.2	1	45.46	<2	204	205.3
105J_1989_3245	0	0.4	2	33.05	<2	174	170.7
105J_1989_3246	0	<0.1	2	45.69	2	176	177.3
105J_1989_3247	0	<0.1	<1	16.57	<2	102	92.5
105J_1989_3248	0	0.1	1	33.99	4	299	288.8
105J_1989_3249	0	0.1	2	35.33	3	163	167.7
105J_1989_3251	0	0.1	<1	37.51	3	128	126.1
105J_1989_3252	0	<0.1	1	39.85	3	115	105.3
105J_1989_3253	0	<0.1	<1	22.81	<2	230	211.8
105J_1989_3254	0	0.4	1	32.44	2	113	110.8
105J_1989_3255	0	<0.1	<1	36.09	2	123	114.4
105J_1989_3256	0	<0.1	<1	20.28	<2	142	141.0
105J_1989_3257	0	<0.1	2	39.12	2	81	77.8
105J_1989_3258	0	<0.1	1	13.73	<2	102	95.0
105J_1989_3259	0	0.2	1	27.96	3	103	99.0
105J_1989_3260	0	<0.1	<1	20.99	2	125	115.8
105J_1989_3262	0	<0.1	<1	42.25	2	77	75.5
105J_1989_3263	0	<0.1	2	40.34	2	107	101.8
105J_1989_3264	0	0.1	<1	22.95	2	148	149.9
105J_1989_3265	0	0.2	2	36.68	2	132	125.4
105J_1989_3266	0	<0.1	1	29.64	3	262	251.5
105J_1989_3267	0	<0.1	<1	16.68	2	44	46.1

Unique ID	Rep Stat	Ag AAS	Ag ICP-MS	Al ICP-MS	As HY-AAS	As ICP-MS	As INAA	Au INAA	Au1 INAA	Au1_wt -	B ICP-MS	Ba ICP-MS	Ba INAA	Bi ICP-MS	Br INAA	Ca ICP-MS
		ppm	ppb	%	ppm	ppm	ppm	ppb	ppb	g	ppm	ppm	ppm	ppm	ppm	%
		0.2	2	0.01	1	0.1	0.5	2	2	0.01	1	0.5	50	0.02	0.5	0.01
105J_1989_3268	1	<0.2	261	0.92	5	8.2	9.1	4			7	346.1	1300	0.14	8.0	1.22
105J_1989_3269	2	<0.2	443	0.93	5	7.9	8.5	<2			6	329.8	1300	0.14	8.5	1.24
105J_1989_3270	0	<0.2	185	1.08	5	6.0	8.4	<2			2	391.3	1900	0.15	2.4	0.60
105J_1989_3271	0	<0.2	229	0.61	45	63.9	52.9	<2			6	525.6	520	0.07	35.0	2.98
105J_1989_3272	0	<0.2	353	0.96	13	20.1	21.0	3			2	464.3	1200	0.37	8.6	1.53
105J_1989_3273	0	0.2	343	0.81	2	2.9	4.4	3			5	486.3	1700	0.12	7.1	1.03
105J_1989_3274	0	<0.2	107	0.33	<1	0.8	1.2	<2			9	277.5	550	0.03	20.0	2.80
105J_1989_3275	0	0.3	323	1.50	4	5.0	7.0	<2			3	521.5	1300	0.13	16.0	1.48
105J_1989_3276	0	0.3	286	0.72	6	7.2	10.0	5			3	618.0	3400	0.13	3.2	0.62
105J_1989_3277	0	0.4	407	0.79	5	6.7	9.3	6			4	672.5	2900	0.13	4.9	0.68
105J_1989_3278	0	0.2	261	0.51	7	10.4	14.0	<2			3	1022.7	5180	0.18	3.6	0.58
105J_1989_3279	0	0.7	676	0.97	13	17.7	22.0	6			4	757.1	2900	0.16	3.1	0.52
105J_1989_3282	0	1.2	1027	1.22	14	23.0	26.0	10	10	21.65	3	655.2	2300	0.22	3.5	0.70
105J_1989_3283	1	1.0	914	0.81	5	9.3	13.0	8	10	4.49	2	449.7	1700	0.13	3.2	0.65
105J_1989_3284	2	0.9	891	0.80	5	7.9	11.0	7	7	18.45	2	441.4	1700	0.13	4.4	0.76
105J_1989_3285	0	1.1	1212	0.67	2	0.6	2.9	6	5	9.76	4	444.4	760	0.04	21.0	1.81
105J_1989_3286	0	0.3	384	0.85	5	7.6	8.2	5	5	14.33	5	279.9	1600	0.12	7.7	1.42
105J_1989_3288	0	0.2	214	0.66	7	16.4	16.0	3	2	16.13	6	2656.1	3900	0.10	17.0	1.83
105J_1989_3289	0	0.2	390	0.70	8	13.6	15.0	8	10	20.38	4	760.4	4800	0.16	4.5	0.74
105J_1989_3290	0	1.2	1533	0.84	13	15.0	20.0	7	8	24.40	4	1473.8	19000	0.16	2.9	0.69
105J_1989_3291	0	0.5	540	1.00	7	9.1	11.0	20	7	26.56	5	648.8	2700	0.15	3.7	0.73
105J_1989_3292	0	0.2	351	0.65	7	9.2	11.0	8	6	38.82	4	861.0	5070	0.12	0.8	0.50
105J_1989_3293	0	0.2	294	0.74	2	2.4	3.2	4	6	17.05	4	496.0	1600	0.09	13.0	1.59
105J_1989_3294	0	0.3	485	0.84	5	5.5	7.1	7	7	33.29	5	753.3	3400	0.12	2.1	0.61
105J_1989_3295	0	0.2	310	0.79	3	4.9	6.8	3	4	20.80	2	486.6	1600	0.19	12.0	1.01
105J_1989_3296	0	<0.2	150	0.93	4	5.9	7.5	<2	<2	27.25	3	314.6	1400	0.22	3.7	0.55
105J_1989_3297	0	<0.2	158	0.89	4	5.6	7.0	<2	<2	23.48	3	262.1	970	0.24	8.7	0.70
105J_1989_3298	0	0.3	132	0.92	5	6.7	8.2	<2	3	13.99	3	309.2	1200	0.22	2.3	0.59
105J_1989_3299	0	0.2	210	0.70	<1	0.5	1.7	3	2	16.17	1	248.2	1000	0.18	6.5	0.94
105J_1989_3300	0	0.2	219	0.58	7	11.5	15.0	7	6	31.83	2	412.4	2300	0.22	1.5	0.58
105J_1989_3302	0	<0.2	131	1.02	1	1.9	2.8	<2			10	370.8	1000	0.13	11.0	1.46
105J_1989_3303	0	<0.2	155	0.58	2	2.3	3.6	<2			10	255.8	1100	0.12	25.0	2.80
105J_1989_3304	1	0.6	355	0.81	14	19.1	24.0	15	15	5.68	5	242.8	9970	0.22	<0.5	1.01

Unique ID	Rep Stat	Cd AAS	Cd ICP-MS	Ce INAA	Co AAS	Co ICP-MS	Co INAA	Cr ICP-MS	Cr INAA	Cs INAA	Cu AAS	Cu ICP-MS	Eu INAA	F ISE	Fe AAS	Fe ICP-MS	Fe INAA
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	pct	%	pct
		0.2	0.01	5	2	0.1	5	0.5	20	0.5	2	0.01	1	20	0.02	0.01	0.2
105J_1989_3268	1	0.6	1.15	46	4	5.6	<5	11.0	27	3.9	22	22.07	<1	306	1.47	1.41	2.1
105J_1989_3269	2	0.5	1.09	49	8	4.9	7	10.9	39	4.2	21	22.19	<1	295	1.34	1.33	1.7
105J_1989_3270	0	0.2	0.64	66	9	8.7	11	17.4	54	5.9	18	19.65	<1	340	1.99	1.95	2.6
105J_1989_3271	0	3.5	3.93	15	12	17.2	16	4.8	<20	0.7	23	25.25	<1	96	3.30	4.72	4.8
105J_1989_3272	0	1.0	1.35	72	10	9.3	11	13.8	44	10.0	31	34.91	<1	258	1.85	1.90	2.5
105J_1989_3273	0	0.8	1.36	51	6	4.9	8	13.2	43	3.5	28	30.53	<1	408	1.13	1.12	2.1
105J_1989_3274	0	0.3	0.59	24	3	1.2	<5	4.6	<20	1.1	14	15.18	<1	130	0.53	0.46	0.9
105J_1989_3275	0	1.8	2.01	69	6	5.0	8	8.6	25	3.3	18	17.51	<1	262	1.92	1.76	3.0
105J_1989_3276	0	1.4	1.38	76	7	7.2	11	13.4	79	5.6	30	29.79	<1	481	1.76	1.64	2.7
105J_1989_3277	0	1.5	1.78	70	9	8.3	10	14.5	77	5.8	32	32.73	<1	467	1.66	1.64	2.5
105J_1989_3278	0	0.9	1.30	71	11	11.3	16	9.8	95	9.3	32	34.61	<1	439	2.69	2.80	4.3
105J_1989_3279	0	3.1	3.48	61	9	9.6	12	19.1	80	10.0	39	41.78	<1	454	2.22	2.28	3.1
105J_1989_3282	0	9.1	10.16	59	9	9.6	7	22.1	99	6.0	58	67.85	<1	478	3.26	3.52	3.5
105J_1989_3283	1	4.2	4.89	73	9	8.8	9	14.6	95	4.4	40	45.96	<1	366	1.60	1.38	2.0
105J_1989_3284	2	4.2	4.96	46	8	7.7	8	14.1	73	4.6	39	45.49	<1	364	1.57	1.42	2.0
105J_1989_3285	0	2.5	2.64	31	4	2.3	6	7.1	38	1.0	47	47.98	<1	156	0.81	0.78	1.0
105J_1989_3286	0	2.3	3.06	55	17	17.4	18	14.0	53	2.7	38	44.62	<1	426	2.61	2.60	2.6
105J_1989_3288	0	1.0	1.84	44	16	17.1	16	9.2	47	1.5	20	20.81	<1	355	7.21	8.10	6.5
105J_1989_3289	0	1.9	2.64	79	11	11.6	12	15.3	65	4.3	38	45.34	<1	507	2.20	2.39	2.4
105J_1989_3290	0	5.1	7.20	53	9	9.7	8	27.4	110	4.2	63	67.32	<1	580	2.10	2.14	2.5
105J_1989_3291	0	1.7	2.12	66	10	8.9	10	19.0	74	3.9	43	44.31	<1	512	2.11	1.96	2.2
105J_1989_3292	0	1.4	1.69	63	10	7.7	8	15.1	110	3.2	36	38.63	<1	530	1.67	1.67	2.1
105J_1989_3293	0	1.3	1.60	47	6	4.3	<5	10.9	38	2.6	19	18.96	<1	384	1.75	1.92	2.2
105J_1989_3294	0	1.2	1.48	65	11	8.8	9	17.6	100	3.9	45	47.49	<1	538	1.27	1.20	1.5
105J_1989_3295	0	1.4	1.57	72	15	14.5	14	10.2	65	6.1	30	30.01	<1	333	3.39	3.48	4.0
105J_1989_3296	0	<0.2	0.57	96	15	13.3	14	21.4	120	4.2	31	32.78	1	401	2.59	2.74	3.4
105J_1989_3297	0	<0.2	0.39	74	11	10.7	14	19.1	110	5.3	31	31.79	<1	325	2.75	2.58	3.3
105J_1989_3298	0	0.2	0.62	75	17	14.9	18	23.1	95	3.8	35	36.28	<1	358	2.70	2.76	3.1
105J_1989_3299	0	<0.2	0.45	62	5	4.2	<5	7.8	33	5.7	41	39.68	<1	228	0.81	0.69	1.0
105J_1989_3300	0	0.5	0.90	87	14	13.5	15	15.6	92	3.9	40	39.63	<1	432	2.41	2.64	3.1
105J_1989_3302	0	0.4	0.72	48	12	12.2	14	27.9	68	4.0	35	32.69	<1	244	2.99	3.04	4.0
105J_1989_3303	0	1.2	1.50	57	6	4.5	7	8.7	31	5.0	16	15.47	<1	297	0.99	1.41	2.1
105J_1989_3304	1	0.9	1.49	89	15	14.3	16	14.1	52	7.3	78	75.12	<1	695	3.29	3.48	3.7

Unique ID	Rep Stat	Ga ICP-MS ppm 0.2	Hf INAA ppm 1	Hg CV-AAS ppb 10	Hg ICP-MS ppb 5	K ICP-MS % 0.01	La ICP-MS ppm 0.5	La INAA ppm 2	LOI GRAV pct 1.0	Lu INAA ppm 0.2	Mg ICP-MS % 0.01	Mn AAS ppm 5	Mn ICP-MS ppm 1	Mo AAS ppm 2	Mo ICP-MS ppm 0.01	Mo INAA ppm 1
105J_1989_3268	1	2.8	3	72	96	0.12	12.9	24	19.5	<0.2	0.28	1460	1395	<2	1.53	2
105J_1989_3269	2	2.7	2	72	81	0.11	12.4	23	20.1	<0.2	0.27	1361	1304	<2	1.48	1
105J_1989_3270	0	3.5	4	58	69	0.14	15.2	31	7.2	<0.2	0.40	544	616	<2	1.51	2
105J_1989_3271	0	0.7	<1	86	130	0.03	10.0	10	69.9	<0.2	0.16	7200	5594	5	9.82	8
105J_1989_3272	0	2.6	3	101	120	0.08	19.8	35	28.8	<0.2	0.28	1099	1065	<2	3.55	3
105J_1989_3273	0	2.5	3	94	136	0.12	9.4	25	25.9	<0.2	0.25	229	226	<2	1.09	1
105J_1989_3274	0	0.8	<1	54	56	0.03	2.5	8	64.5	<0.2	0.19	482	439	<2	0.66	2
105J_1989_3275	0	3.8	4	119	136	0.10	26.0	40	29.4	<0.2	0.29	3378	2424	<2	1.94	1
105J_1989_3276	0	2.1	5	133	154	0.12	10.3	34	7.8	<0.2	0.30	396	418	<2	2.40	3
105J_1989_3277	0	2.3	5	166	199	0.13	11.6	34	9.0	<0.2	0.31	175	209	<2	2.60	2
105J_1989_3278	0	1.4	4	122	150	0.12	5.3	35	11.3	<0.2	0.15	483	550	<2	3.40	3
105J_1989_3279	0	2.8	4	256	308	0.15	13.5	32	9.4	<0.2	0.31	642	744	4	5.28	5
105J_1989_3282	0	3.5	3	564	632	0.16	11.6	27	17.3	0.6	0.33	641	732	10	17.58	15
105J_1989_3283	1	2.1	3	744	841	0.08	6.9	22	21.4	0.3	0.22	197	197	2	3.70	4
105J_1989_3284	2	2.1	3	724	807	0.08	6.7	23	22.0	0.4	0.23	232	235	2	3.37	2
105J_1989_3285	0	0.7	1	526	677	0.05	11.5	15	49.2	0.3	0.22	109	105	<2	0.67	<1
105J_1989_3286	0	2.5	3	173	196	0.10	9.1	22	29.8	0.3	0.38	8692	5151	2	3.62	2
105J_1989_3288	0	2.3	3	104	146	0.09	7.9	16	27.2	<0.2	0.33	>20000	>10000	4	4.52	3
105J_1989_3289	0	2.3	6	139	190	0.13	11.8	30	7.0	0.4	0.41	1099	1596	2	3.72	3
105J_1989_3290	0	2.6	6	247	352	0.13	10.9	28	8.4	0.7	0.34	350	446	8	9.11	10
105J_1989_3291	0	3.0	4	191	238	0.17	12.6	25	11.2	0.5	0.39	1410	1562	2	2.48	2
105J_1989_3292	0	2.1	5	140	143	0.13	10.5	25	2.8	0.7	0.33	412	499	2	3.33	3
105J_1989_3293	0	2.1	4	130	151	0.09	9.2	19	37.6	0.2	0.38	1164	1135	<2	0.57	<1
105J_1989_3294	0	2.6	4	160	193	0.14	13.1	29	9.3	0.5	0.39	89	96	<2	1.64	<1
105J_1989_3295	0	2.1	4	173	204	0.11	9.0	29	20.8	0.4	0.21	5264	3897	<2	0.58	<1
105J_1989_3296	0	3.1	7	126	120	0.12	12.4	36	8.6	0.4	0.35	649	777	<2	1.39	<1
105J_1989_3297	0	2.9	5	140	160	0.11	9.4	31	14.1	0.5	0.27	968	899	<2	0.71	<1
105J_1989_3298	0	3.3	6	108	104	0.14	11.6	31	7.0	0.3	0.42	796	933	<2	1.20	<1
105J_1989_3299	0	1.7	3	70	74	0.07	6.8	26	21.9	<0.2	0.18	59	53	<2	0.17	<1
105J_1989_3300	0	2.0	6	133	156	0.10	10.8	32	4.6	0.5	0.39	581	649	<2	2.14	2
105J_1989_3302	0	3.1	2	142	130	0.10	5.6	21	33.1	<0.2	0.61	322	296	<2	0.23	<1
105J_1989_3303	0	1.5	3	108	107	0.10	6.7	23	26.0	<0.2	0.31	617	602	<2	0.43	<1
105J_1989_3304	1	2.6	4	151	173	0.17	14.4	41	1.8	<0.2	0.80	542	696	5	5.63	6

Unique ID	Rep Stat	Na ICP-MS % 0.001	Na INAA pct 0.02	Ni AAS ppm 2	Ni ICP-MS ppm 0.1	P ICP-MS % 0.001	Pb AAS ppm 2	Pb ICP-MS ppm 0.01	Rb INAA ppm 5	S ICP-MS % 0.01	Sb HY-AAS ppm 0.2	Sb ICP-MS ppm 0.02	Sb INAA ppm 0.1	Sc ICP-MS ppm 0.1	Sc INAA ppm 0.2	Se ICP-MS ppm 0.1
105J_1989_3268	1	0.038	1.20	14	16.1	0.089	12	10.20	61	0.09	0.8	0.84	1.3	2.1	7.0	0.9
105J_1989_3269	2	0.036	1.10	13	15.6	0.085	10	9.69	74	0.10	0.7	0.86	1.2	2.1	5.6	1.0
105J_1989_3270	0	0.017	0.69	19	21.2	0.106	13	11.62	96	0.05	0.8	0.73	1.4	2.4	8.4	1.0
105J_1989_3271	0	0.008	0.13	10	14.2	0.175	6	2.12	7	0.47	0.5	0.61	0.5	0.7	1.5	1.7
105J_1989_3272	0	0.019	0.94	20	22.9	0.104	19	16.72	66	0.20	0.5	0.65	0.9	2.2	7.5	1.5
105J_1989_3273	0	0.024	1.10	16	17.8	0.123	8	7.22	68	0.33	0.7	0.90	1.1	1.9	8.3	2.6
105J_1989_3274	0	0.018	0.59	5	5.6	0.123	4	1.95	19	0.62	0.2	0.33	0.4	0.7	1.8	1.5
105J_1989_3275	0	0.037	1.30	10	12.0	0.105	8	7.52	68	0.22	0.4	0.64	1.0	3.4	10.0	4.0
105J_1989_3276	0	0.007	0.53	27	26.6	0.127	12	9.93	83	0.08	1.5	1.40	2.5	2.4	9.3	1.8
105J_1989_3277	0	0.008	0.54	28	29.7	0.123	12	11.27	82	0.06	1.4	1.52	2.5	2.7	9.3	2.0
105J_1989_3278	0	0.006	0.41	42	45.1	0.095	12	11.50	130	0.13	1.5	1.41	2.5	3.5	13.0	2.9
105J_1989_3279	0	0.007	0.53	43	43.3	0.151	14	10.66	86	0.07	3.6	2.99	5.3	2.6	8.8	3.5
105J_1989_3282	0	0.007	0.41	64	71.2	0.226	14	13.97	88	0.13	8.0	6.54	9.3	3.7	8.8	20.7
105J_1989_3283	1	0.009	0.53	36	40.3	0.118	9	7.66	74	0.43	2.0	2.75	3.7	2.3	6.9	11.5
105J_1989_3284	2	0.009	0.56	34	37.1	0.111	9	7.32	72	0.37	1.7	2.67	3.5	2.2	7.2	11.4
105J_1989_3285	0	0.013	0.53	23	23.4	0.136	3	2.80	26	0.36	0.5	0.82	0.9	2.8	5.5	8.7
105J_1989_3286	0	0.009	0.42	32	34.5	0.118	9	7.75	64	1.01	0.8	1.50	1.6	2.6	6.0	5.9
105J_1989_3288	0	0.008	0.37	30	32.2	0.122	6	5.60	43	0.21	0.7	0.88	1.1	2.0	4.7	3.2
105J_1989_3289	0	0.005	0.35	36	41.5	0.169	10	10.80	84	0.10	2.1	2.40	3.4	2.6	6.6	2.0
105J_1989_3290	0	0.006	0.27	74	82.7	0.171	13	10.88	89	0.15	6.0	5.06	7.9	2.6	7.1	8.4
105J_1989_3291	0	0.007	0.40	33	34.2	0.128	11	8.77	79	0.09	1.3	1.44	2.2	2.7	7.5	2.1
105J_1989_3292	0	0.005	0.25	34	36.9	0.160	9	8.53	77	0.07	1.7	1.92	2.9	2.1	6.7	1.8
105J_1989_3293	0	0.008	0.49	14	15.1	0.142	9	6.18	56	0.40	0.2	0.46	0.6	1.5	5.2	1.6
105J_1989_3294	0	0.006	0.37	31	32.5	0.142	12	9.43	81	0.12	1.5	1.75	2.5	2.5	7.7	2.6
105J_1989_3295	0	0.009	0.62	26	26.5	0.081	16	12.86	130	0.17	0.5	0.45	0.8	3.2	10.0	2.6
105J_1989_3296	0	0.015	0.61	30	31.1	0.081	18	14.59	110	0.05	0.7	0.67	1.1	3.2	11.0	0.8
105J_1989_3297	0	0.009	0.73	25	24.6	0.081	18	16.45	110	0.08	0.7	0.66	1.0	3.1	11.0	1.1
105J_1989_3298	0	0.010	0.53	32	35.2	0.078	19	17.12	99	0.08	0.7	0.65	1.0	3.4	10.0	0.8
105J_1989_3299	0	0.022	1.00	14	13.3	0.070	16	13.67	92	0.25	0.2	0.34	0.6	1.9	5.8	0.9
105J_1989_3300	0	0.009	0.54	31	32.8	0.089	18	16.53	98	0.17	1.6	1.55	2.5	3.2	9.1	1.2
105J_1989_3302	0	0.021	0.88	37	35.6	0.080	13	9.43	73	0.40	0.2	0.29	0.4	4.3	9.3	2.2
105J_1989_3303	0	0.016	0.66	16	14.7	0.095	9	8.57	70	0.17	0.4	0.57	0.9	1.4	5.8	2.0
105J_1989_3304	1	0.005	0.25	40	41.3	0.152	19	16.28	95	0.58	3.6	3.47	6.0	3.3	7.7	2.9

Unique ID	Rep Stat	Sm INAA	Sn AAS	Sr ICP-MS	Ta INAA	Tb INAA	Te ICP-MS	Th ICP-MS	Th INAA	Ti ICP-MS	Tl ICP-MS	U ICP-MS	U INAA	U NADNC	V AAS	V ICP-MS
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.5	0.5	0.5	0.02	0.1	0.2	0.001	0.02	0.1	0.2	0.5	5	2
105J_1989_3268	1	3.3	7	79.9	0.6	0.5	0.03	2.3	7.5	0.015	0.14	6.8	8.6	8.6	29	39
105J_1989_3269	2	3.2	9	81.0	0.9	<0.5	0.02	2.2	7.2	0.013	0.13	6.9	8.7	9.0	31	35
105J_1989_3270	0	4.9	8	54.9	1.0	0.6	<0.02	4.1	9.1	0.019	0.15	4.9	8.6	6.9	36	46
105J_1989_3271	0	1.4	14	182.7	<0.5	<0.5	0.06	0.7	2.2	0.005	0.05	16.7	14.0	14.8	25	27
105J_1989_3272	0	4.5	10	94.2	0.7	0.7	0.02	3.7	9.0	0.010	0.15	24.3	25.8	25.4	25	30
105J_1989_3273	0	3.4	8	74.0	0.5	0.5	0.02	1.8	6.0	0.009	0.14	3.7	5.5	5.5	34	47
105J_1989_3274	0	0.9	14	98.9	<0.5	<0.5	0.02	0.4	1.9	0.007	0.04	1.4	1.9	2.3	20	10
105J_1989_3275	0	4.8	11	79.6	0.5	0.7	<0.02	2.1	10.0	0.043	0.16	15.9	19.0	18.9	31	31
105J_1989_3276	0	4.8	5	55.1	0.9	0.6	0.05	2.8	8.1	0.006	0.17	1.4	4.4	3.6	39	50
105J_1989_3277	0	4.9	4	56.6	0.9	0.7	0.05	3.0	8.7	0.005	0.19	1.3	4.2	4.0	41	51
105J_1989_3278	0	5.0	1	75.1	0.8	0.6	0.07	2.2	9.1	0.001	0.21	1.4	4.5	4.1	37	43
105J_1989_3279	0	4.8	3	51.3	1.0	0.7	0.05	2.6	8.4	0.005	0.32	2.0	5.1	4.7	90	117
105J_1989_3282	0	5.2	5	53.3	0.9	0.9	0.07	2.7	8.2	0.004	0.37	3.6	5.7	5.9	158	202
105J_1989_3283	1	4.1	3	64.6	<0.5	0.9	0.03	1.3	6.6	0.003	0.37	2.2	4.1	4.4	112	143
105J_1989_3284	2	4.1	3	70.7	0.7	0.5	0.05	1.3	6.7	0.003	0.36	2.1	4.1	4.5	102	133
105J_1989_3285	0	3.9	5	89.9	<0.5	0.6	0.02	0.5	2.9	0.005	0.21	4.7	5.0	5.5	18	12
105J_1989_3286	0	3.4	7	83.8	0.8	0.5	0.04	2.2	6.1	0.005	0.17	4.5	5.4	6.0	39	47
105J_1989_3288	0	3.0	5	192.6	0.6	<0.5	0.07	1.5	5.0	0.006	0.14	1.7	2.7	2.9	48	59
105J_1989_3289	0	6.0	7	79.2	1.0	0.8	0.08	2.7	8.7	0.007	0.21	1.7	4.9	4.4	46	56
105J_1989_3290	0	5.6	7	85.3	1.0	1.0	0.10	2.0	7.5	0.005	0.41	8.4	12.0	10.3	142	193
105J_1989_3291	0	4.7	3	68.6	1.0	0.8	0.06	2.5	7.2	0.007	0.23	2.6	5.0	4.6	46	72
105J_1989_3292	0	4.8	3	63.1	0.7	1.0	0.08	2.8	6.8	0.007	0.16	2.2	4.9	3.9	51	62
105J_1989_3293	0	3.1	6	109.2	<0.5	<0.5	0.03	1.2	6.0	0.006	0.11	2.5	4.1	4.8	20	26
105J_1989_3294	0	5.0	3	78.9	1.1	0.7	0.06	2.9	7.9	0.007	0.21	4.7	7.5	6.7	52	68
105J_1989_3295	0	4.9	10	91.7	0.9	0.8	0.04	2.0	10.0	0.003	0.14	1.1	3.4	3.7	21	22
105J_1989_3296	0	6.3	6	46.0	1.0	0.8	0.03	2.3	12.0	0.019	0.12	0.8	3.6	3.4	34	34
105J_1989_3297	0	5.6	8	57.6	1.0	0.8	0.04	1.7	11.0	0.010	0.11	1.0	3.1	3.2	28	27
105J_1989_3298	0	5.8	2	50.2	1.1	0.9	0.04	3.3	11.0	0.033	0.13	0.9	3.3	3.3	33	33
105J_1989_3299	0	5.1	5	88.4	0.7	0.8	0.02	2.0	10.0	0.004	0.08	2.3	4.1	4.6	15	11
105J_1989_3300	0	5.8	4	54.8	1.3	0.9	0.02	3.7	11.0	0.015	0.14	1.0	4.1	3.8	28	32
105J_1989_3302	0	3.1	10	115.7	0.7	<0.5	0.04	1.6	6.4	0.030	0.09	0.9	2.7	2.5	24	27
105J_1989_3303	0	3.4	18	126.5	0.8	<0.5	0.02	1.4	7.5	0.007	0.08	0.7	2.3	2.4	15	18
105J_1989_3304	1	7.4	8	109.6	1.1	0.9	0.06	4.7	12.0	0.005	0.19	2.1	6.7	5.8	41	49

Unique ID	Rep Stat	W ICP-MS ppm 0.1	W INAA ppm 1	wt INAA g 0.01	Yb INAA ppm 2	Zn AAS ppm 2	Zn ICP-MS ppm 0.1
105J_1989_3268	1	0.1	<1	13.28	<2	91	100.0
105J_1989_3269	2	<0.1	<1	25.90	<2	90	94.9
105J_1989_3270	0	0.8	1	20.78	<2	100	112.5
105J_1989_3271	0	<0.1	<1	14.54	<2	156	178.1
105J_1989_3272	0	0.2	<1	21.49	2	103	109.7
105J_1989_3273	0	<0.1	<1	25.20	<2	94	105.8
105J_1989_3274	0	<0.1	<1	15.53	<2	25	37.7
105J_1989_3275	0	<0.1	<1	22.42	<2	120	124.5
105J_1989_3276	0	<0.1	1	43.27	2	157	154.8
105J_1989_3277	0	0.2	1	38.83	2	150	167.3
105J_1989_3278	0	<0.1	1	40.48	2	194	207.7
105J_1989_3279	0	0.3	1	37.63	<2	291	296.2
105J_1989_3282	0	<0.1	1	28.29	<2	483	482.6
105J_1989_3283	1	<0.1	<1	13.37	<2	201	234.8
105J_1989_3284	2	<0.1	<1	28.00	<2	197	227.1
105J_1989_3285	0	<0.1	<1	13.95	<2	52	54.0
105J_1989_3286	0	<0.1	<1	17.86	<2	269	259.1
105J_1989_3288	0	0.1	<1	20.72	<2	225	218.9
105J_1989_3289	0	<0.1	2	26.67	<2	181	215.3
105J_1989_3290	0	0.1	<1	30.50	2	980	1189.1
105J_1989_3291	0	<0.1	1	32.50	2	175	186.6
105J_1989_3292	0	0.3	1	37.51	2	209	225.7
105J_1989_3293	0	<0.1	<1	18.91	<2	79	81.5
105J_1989_3294	0	<0.1	1	36.35	<2	167	173.3
105J_1989_3295	0	<0.1	<1	23.50	3	133	134.9
105J_1989_3296	0	<0.1	1	42.00	2	108	109.3
105J_1989_3297	0	<0.1	1	33.58	2	111	110.5
105J_1989_3298	0	<0.1	1	19.61	<2	107	104.9
105J_1989_3299	0	<0.1	<1	21.97	<2	76	74.0
105J_1989_3300	0	0.1	2	41.19	3	117	118.0
105J_1989_3302	0	<0.1	<1	21.43	<2	120	112.7
105J_1989_3303	0	<0.1	<1	24.95	<2	105	100.6
105J_1989_3304	1	<0.1	2	15.07	<2	193	197.5

Unique ID	Rep Stat	Ag AAS	Ag ICP-MS	Al ICP-MS	As HY-AAS	As ICP-MS	As INAA	Au INAA	Au1 INAA	Au1_wt -	B ICP-MS	Ba ICP-MS	Ba INAA	Bi ICP-MS	Br INAA	Ca ICP-MS
		ppm	ppb	%	ppm	ppm	ppm	ppb	ppb	g	ppm	ppm	ppm	ppm	ppm	%
		0.2	2	0.01	1	0.1	0.5	2	2	0.01	1	0.5	50	0.02	0.5	0.01
105J_1989_3305	2	0.2	349	0.84	12	18.2	23.0	22	16	18.47	5	324.1	6890	0.21	0.6	0.97
105J_1989_3306	0	0.2	152	0.76	7	10.7	13.0	<2			4	209.4	2000	0.22	1.3	0.50
105J_1989_3307	0	0.3	255	0.83	7	9.8	12.0	8			5	883.5	3900	0.21	3.9	0.55
105J_1989_3308	0	0.2	227	0.87	23	35.3	38.0	8			5	155.4	1200	3.33	4.4	0.49
105J_1989_3309	0	<0.2	211	0.90	3	1.4	2.9	<2			7	291.0	1200	0.15	8.9	1.02
105J_1989_3311	0	0.3	214	0.70	1	1.1	2.7	2			6	283.4	1200	0.15	6.3	1.21
105J_1989_3312	0	0.3	129	0.80	3	4.6	7.0	<2			3	248.4	1300	0.22	2.3	0.39
105J_1989_3313	0	<0.2	193	0.91	5	8.4	11.0	4			3	386.8	1500	0.21	14.0	0.97
105J_1989_3314	0	<0.2	125	0.81	7	10.1	13.0	4			3	185.4	1200	0.25	2.7	0.41
105J_1989_3315	0	<0.2	125	0.70	6	7.3	11.0	6			4	185.2	1400	0.24	3.7	0.40
105J_1989_3316	0	<0.2	167	1.33	7	9.4	14.0	4			3	115.0	1100	0.27	3.1	0.24
105J_1989_3317	0	0.4	352	1.26	6	8.9	12.0	<2			3	218.4	1300	0.21	8.2	0.50
105J_1989_3318	0	<0.2	155	1.15	6	8.2	10.0	8			3	173.5	1100	0.20	4.8	0.27
105J_1989_3319	0	<0.2	112	0.83	5	10.2	10.0	3			3	187.2	1200	0.19	2.5	0.24
105J_1989_3320	0	0.3	235	1.20	7	18.2	17.0	3			5	648.4	1100	0.12	21.0	1.85
105J_1989_3322	1	0.6	488	1.28	3	5.6	6.8	7			5	626.7	2000	0.18	3.1	0.35
105J_1989_3323	2	0.6	496	1.23	2	5.4	6.9	7			4	620.7	2200	0.18	3.4	0.30
105J_1989_3324	0	0.5	399	0.69	2	3.8	4.3	7			4	420.1	1200	0.14	6.5	0.44
105J_1989_3325	0	0.4	240	0.91	4	6.0	8.1	5			6	384.9	2400	0.16	1.7	0.32
105J_1989_3326	0	<0.2	366	1.29	7	14.3	17.0	10			8	670.6	2400	0.20	3.3	0.60
105J_1989_3327	0	<0.2	277	0.97	3	4.6	6.3	8			9	538.1	2500	0.13	2.0	0.28
105J_1989_3328	0	0.3	247	0.89	2	3.5	4.9	6			9	279.9	1300	0.12	6.3	1.60
105J_1989_3329	0	0.2	229	1.29	6	10.4	12.0	4			5	260.0	1700	0.20	2.6	0.56
105J_1989_3331	0	0.2	243	1.17	5	7.6	9.4	5			3	254.3	1600	0.19	1.8	0.52
105J_1989_3332	0	0.3	259	1.27	6	11.6	13.0	9			4	327.4	1400	0.21	8.1	0.46
105J_1989_3333	0	0.7	753	1.41	20	49.2	56.3	7			4	487.6	1400	0.27	11.0	1.22
105J_1989_3334	0	0.5	283	1.04	9	12.5	18.0	8			6	950.1	4900	0.22	2.5	0.38
105J_1989_3335	0	0.2	281	1.19	6	8.3	11.0	16	13	35.05	5	652.2	3000	0.20	4.8	0.41
105J_1989_3336	0	0.2	287	1.19	5	7.2	10.0	10			7	612.0	2900	0.17	3.8	0.34
105J_1989_3337	0	0.3	315	1.35	7	9.1	11.0	12			8	581.3	2200	0.20	5.7	0.41
105J_1989_3338	0	<0.2	430	1.24	8	10.7	14.0	12			8	728.9	3000	0.19	3.7	0.37
105J_1989_3339	0	0.2	531	0.50	5	8.1	8.6	5			7	44.7	420	0.07	13.0	1.32
105J_1989_3340	0	<0.2	398	1.32	8	11.6	16.0	13			7	737.5	2900	0.21	3.8	0.30

Unique ID	Rep Stat	Cd AAS	Cd ICP-MS	Ce INAA	Co AAS	Co ICP-MS	Co INAA	Cr ICP-MS	Cr INAA	Cs INAA	Cu AAS	Cu ICP-MS	Eu INAA	F ISE	Fe AAS	Fe ICP-MS	Fe INAA
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	pct	%	pct
		0.2	0.01	5	2	0.1	5	0.5	20	0.5	2	0.01	1	20	0.02	0.01	0.2
105J_1989_3305	2	0.9	1.28	76	16	14.3	19	14.4	65	7.4	73	75.07	1	765	3.11	3.31	4.2
105J_1989_3306	0	0.5	0.72	110	13	11.4	14	11.2	61	5.2	36	36.10	1	442	2.42	2.52	3.6
105J_1989_3307	0	0.8	1.14	120	13	10.3	15	13.2	63	6.0	41	40.45	<1	500	2.23	2.33	3.3
105J_1989_3308	0	<0.2	0.58	130	13	12.0	17	12.6	60	8.6	41	40.50	1	478	2.86	3.07	4.2
105J_1989_3309	0	0.4	0.71	61	5	4.3	8	11.5	45	4.7	36	33.60	<1	380	1.12	1.10	2.1
105J_1989_3311	0	0.4	0.72	70	5	4.3	6	10.2	44	5.1	28	26.77	<1	283	1.05	1.05	2.0
105J_1989_3312	0	<0.2	0.52	100	12	11.3	16	12.7	64	4.8	24	21.76	<1	372	2.48	2.50	3.6
105J_1989_3313	0	0.6	0.78	57	14	13.0	14	11.5	51	5.4	22	19.44	<1	403	4.02	3.78	4.6
105J_1989_3314	0	<0.2	0.42	100	14	11.9	17	11.8	52	5.6	26	22.08	<1	388	2.54	2.72	3.2
105J_1989_3315	0	<0.2	0.42	120	12	10.0	14	10.0	38	6.0	25	24.01	<1	426	2.08	2.07	3.1
105J_1989_3316	0	<0.2	0.34	150	13	13.1	18	16.4	74	10.0	23	22.57	1	369	2.63	2.65	4.2
105J_1989_3317	0	0.2	0.59	99	10	8.6	13	13.7	60	11.0	26	24.45	1	442	2.24	2.02	3.5
105J_1989_3318	0	<0.2	0.35	130	11	9.4	12	14.3	69	6.4	23	21.98	1	378	2.37	2.36	3.5
105J_1989_3319	0	<0.2	0.38	180	11	10.0	13	11.7	70	5.1	20	19.02	2	349	2.20	2.30	3.6
105J_1989_3320	0	2.5	3.07	28	10	11.4	12	8.8	<20	1.7	33	33.17	<1	94	8.06	8.57	10.0
105J_1989_3322	1	0.8	1.40	40	8	6.4	7	19.5	54	3.6	36	35.79	<1	358	1.87	1.58	2.1
105J_1989_3323	2	0.9	1.36	45	9	6.4	9	19.2	59	4.0	37	38.85	<1	304	1.64	1.37	2.1
105J_1989_3324	0	1.0	1.39	28	5	4.2	<5	11.2	39	2.3	32	35.65	<1	223	1.66	1.27	1.5
105J_1989_3325	0	<0.2	0.68	43	10	7.8	12	15.1	72	3.5	36	36.26	<1	447	2.31	1.91	2.9
105J_1989_3326	0	0.5	1.23	49	15	12.6	15	20.9	66	3.9	58	61.19	<1	614	4.14	4.40	5.2
105J_1989_3327	0	<0.2	0.58	40	8	6.9	10	16.1	54	3.4	40	43.33	<1	437	1.77	1.56	2.3
105J_1989_3328	0	0.3	1.41	42	8	6.3	8	12.6	48	3.4	40	42.55	<1	369	1.48	1.34	1.8
105J_1989_3329	0	1.0	1.67	73	10	9.4	11	17.2	62	5.2	28	30.87	1	375	2.21	2.21	3.1
105J_1989_3331	0	0.4	0.76	69	10	8.3	10	15.1	52	4.2	29	31.46	<1	375	1.94	1.78	2.4
105J_1989_3332	0	0.7	1.02	78	12	9.7	10	14.4	55	4.5	24	24.43	1	462	3.06	2.75	2.8
105J_1989_3333	0	0.3	1.01	29	16	12.3	13	13.8	40	7.6	27	27.28	<1	388	6.32	5.82	6.2
105J_1989_3334	0	1.7	2.03	53	19	16.8	20	19.1	93	4.3	62	64.95	<1	449	2.72	2.61	3.6
105J_1989_3335	0	1.1	1.94	63	15	16.1	19	19.6	74	4.2	71	80.34	<1	528	2.51	2.63	3.6
105J_1989_3336	0	0.7	1.77	62	12	11.9	15	20.1	82	3.7	46	49.51	1	404	2.22	2.18	3.2
105J_1989_3337	0	1.5	2.41	48	15	13.4	14	22.0	65	3.7	69	72.93	<1	504	2.53	2.62	3.2
105J_1989_3338	0	2.1	2.68	54	15	13.7	18	21.2	80	4.5	65	74.51	<1	558	2.61	2.49	3.7
105J_1989_3339	0	3.1	3.98	13	12	8.8	7	8.9	<20	1.0	59	60.21	<1	148	2.83	2.54	2.6
105J_1989_3340	0	2.8	2.62	60	19	19.4	24	23.7	70	4.1	74	77.26	<1	541	3.01	2.85	4.0

Silt Data - GSC Open File 5694 / YGS Open File 2008-4

Unique ID	Rep Stat	Ga ICP-MS ppm 0.2	Hf INAA ppm 1	Hg CV-AAS ppb 10	Hg ICP-MS ppb 5	K ICP-MS % 0.01	La ICP-MS ppm 0.5	La INAA ppm 2	LOI GRAV pct 1.0	Lu INAA ppm 0.2	Mg ICP-MS % 0.01	Mn AAS ppm 5	Mn ICP-MS ppm 1	Mo AAS ppm 2	Mo ICP-MS ppm 0.01	Mo INAA ppm 1
105J_1989_3305	2	2.5	5	148	163	0.18	14.6	43	2.4	<0.2	0.78	554	644	4	4.93	4
105J_1989_3306	0	2.3	6	68	63	0.08	20.0	53	5.2	<0.2	0.33	372	421	<2	2.24	1
105J_1989_3307	0	2.5	7	115	106	0.13	20.5	54	6.1	<0.2	0.36	379	419	<2	2.10	2
105J_1989_3308	0	2.9	6	72	61	0.14	30.1	59	7.9	<0.2	0.29	474	555	<2	1.14	<1
105J_1989_3309	0	2.4	3	181	142	0.10	8.1	28	21.3	<0.2	0.24	197	186	<2	0.18	<1
105J_1989_3311	0	1.8	4	156	125	0.08	6.8	30	24.2	<0.2	0.22	52	48	<2	0.13	<1
105J_1989_3312	0	2.3	4	87	76	0.10	17.4	47	8.1	<0.2	0.23	477	487	<2	0.38	<1
105J_1989_3313	0	2.6	4	137	105	0.11	10.7	32	19.9	<0.2	0.29	2247	1935	<2	0.39	<1
105J_1989_3314	0	2.2	5	70	50	0.10	20.4	46	6.6	<0.2	0.25	320	348	<2	0.65	<1
105J_1989_3315	0	2.0	6	57	46	0.08	17.4	58	5.9	<0.2	0.23	317	315	<2	0.55	<1
105J_1989_3316	0	3.5	9	34	19	0.07	34.7	70	3.4	<0.2	0.58	414	538	<2	0.59	<1
105J_1989_3317	0	3.4	6	53	37	0.10	31.9	59	11.3	<0.2	0.42	491	456	<2	0.85	<1
105J_1989_3318	0	3.2	9	57	48	0.08	25.1	61	5.1	<0.2	0.46	280	332	<2	0.58	<1
105J_1989_3319	0	2.4	9	55	43	0.06	21.7	83	2.2	<0.2	0.36	361	413	<2	0.60	<1
105J_1989_3320	0	1.7	1	203	203	0.07	7.0	15	48.9	<0.2	0.24	4625	3398	<2	0.92	<1
105J_1989_3322	1	3.8	3	252	246	0.14	9.1	22	16.4	<0.2	0.29	282	244	<2	0.98	2
105J_1989_3323	2	3.5	3	266	262	0.14	9.0	24	16.8	<0.2	0.28	223	194	<2	1.24	2
105J_1989_3324	0	2.1	1	209	191	0.10	6.8	15	57.1	<0.2	0.17	304	254	<2	1.60	3
105J_1989_3325	0	3.0	4	248	223	0.15	8.3	28	8.1	<0.2	0.29	578	541	<2	1.62	3
105J_1989_3326	0	3.8	4	306	303	0.22	13.8	31	13.8	<0.2	0.53	3275	2936	4	3.28	4
105J_1989_3327	0	3.4	3	166	155	0.19	8.0	23	6.8	<0.2	0.32	734	723	<2	1.44	2
105J_1989_3328	0	2.5	3	119	110	0.11	12.4	24	33.6	<0.2	0.45	253	202	<2	0.66	2
105J_1989_3329	0	3.8	7	63	82	0.14	19.0	46	8.3	<0.2	0.59	334	359	3	1.14	1
105J_1989_3331	0	3.3	5	83	76	0.11	19.4	36	9.5	<0.2	0.47	176	187	<2	0.55	1
105J_1989_3332	0	3.1	6	74	57	0.12	28.9	46	9.5	<0.2	0.38	717	736	<2	0.70	<1
105J_1989_3333	0	3.4	2	137	116	0.13	10.0	20	31.1	<0.2	0.25	4147	2900	3	3.25	5
105J_1989_3334	0	3.2	5	202	168	0.19	11.4	32	5.7	<0.2	0.41	1620	1866	3	3.66	6
105J_1989_3335	0	3.7	6	191	209	0.17	14.1	34	7.8	<0.2	0.41	4005	4187	3	3.58	4
105J_1989_3336	0	3.6	6	209	202	0.17	13.7	37	7.5	<0.2	0.38	667	737	<2	2.24	4
105J_1989_3337	0	4.0	4	212	239	0.24	12.2	29	9.7	<0.2	0.48	1424	1656	3	3.60	4
105J_1989_3338	0	3.8	5	234	249	0.20	11.9	33	7.6	<0.2	0.47	1317	1429	3	4.27	6
105J_1989_3339	0	1.2	<1	259	285	0.07	2.3	7	57.6	<0.2	0.25	369	337	20	22.85	24
105J_1989_3340	0	4.2	4	241	270	0.20	12.1	35	7.9	<0.2	0.49	2332	2512	4	4.27	6

Unique ID	Rep Stat	Na ICP-MS % 0.001	Na INAA pct 0.02	Ni AAS ppm 2	Ni ICP-MS ppm 0.1	P ICP-MS % 0.001	Pb AAS ppm 2	Pb ICP-MS ppm 0.01	Rb INAA ppm 5	S ICP-MS % 0.01	Sb HY-AAS ppm 0.2	Sb ICP-MS ppm 0.02	Sb INAA ppm 0.1	Sc ICP-MS ppm 0.1	Sc INAA ppm 0.2	Se ICP-MS ppm 0.1
105J_1989_3305	2	0.005	0.31	41	41.2	0.148	17	15.51	100	0.38	3.7	3.37	5.9	3.4	10.0	2.9
105J_1989_3306	0	0.006	0.58	25	26.2	0.081	23	20.53	100	0.04	1.3	1.22	2.2	1.7	11.0	1.1
105J_1989_3307	0	0.008	0.56	30	28.4	0.102	17	14.15	99	0.05	2.0	1.76	3.0	2.4	9.3	0.9
105J_1989_3308	0	0.011	0.74	21	22.6	0.073	48	44.86	120	0.05	1.7	1.39	2.3	2.5	12.0	0.5
105J_1989_3309	0	0.022	1.10	16	16.5	0.081	12	8.88	84	0.26	0.2	0.33	0.6	2.3	8.5	2.1
105J_1989_3311	0	0.017	0.94	17	17.6	0.068	12	8.74	91	0.35	0.2	0.28	0.5	2.1	8.4	1.6
105J_1989_3312	0	0.012	0.64	20	19.8	0.068	18	14.13	110	0.06	0.5	0.54	1.1	2.0	10.0	0.6
105J_1989_3313	0	0.011	0.55	23	20.5	0.089	16	10.79	90	0.14	0.4	0.48	1.0	1.8	7.9	1.3
105J_1989_3314	0	0.007	0.40	22	20.6	0.069	21	16.63	110	0.04	1.4	1.20	2.2	1.9	8.7	0.6
105J_1989_3315	0	0.011	0.80	21	20.5	0.061	18	14.63	110	0.04	1.2	1.19	2.3	1.7	9.2	0.5
105J_1989_3316	0	0.006	0.75	25	25.1	0.057	23	18.53	150	0.02	0.7	0.80	1.8	2.2	13.0	0.2
105J_1989_3317	0	0.013	1.00	18	18.0	0.084	16	13.93	120	0.05	0.3	0.85	1.7	2.1	11.0	0.7
105J_1989_3318	0	0.006	0.70	22	22.7	0.067	16	14.14	120	0.04	0.5	0.65	1.4	2.0	11.0	0.3
105J_1989_3319	0	0.006	0.62	20	20.1	0.061	14	12.47	100	0.04	0.3	0.76	1.5	1.7	11.0	0.5
105J_1989_3320	0	0.009	0.34	17	20.8	0.158	11	7.05	28	0.42	0.3	0.58	0.7	2.5	4.6	2.4
105J_1989_3322	1	0.019	0.79	18	22.8	0.104	8	8.54	80	0.11	0.7	0.74	1.3	2.5	8.0	1.0
105J_1989_3323	2	0.017	0.85	19	23.9	0.104	8	8.35	81	0.14	0.8	0.78	1.4	2.4	9.1	1.1
105J_1989_3324	0	0.011	0.36	23	25.0	0.087	5	5.52	40	0.56	0.4	0.94	1.0	1.5	5.5	2.0
105J_1989_3325	0	0.008	0.57	25	25.6	0.105	10	8.61	97	0.04	0.8	0.73	1.5	2.7	9.4	1.3
105J_1989_3326	0	0.010	0.49	41	40.9	0.152	11	11.45	87	0.08	1.1	1.30	2.0	4.0	9.5	2.5
105J_1989_3327	0	0.007	0.37	28	28.2	0.085	7	7.28	83	0.04	0.8	0.83	1.4	2.5	7.9	1.2
105J_1989_3328	0	0.019	0.69	16	19.1	0.076	8	7.45	62	0.34	1.0	1.78	2.1	2.6	6.7	3.0
105J_1989_3329	0	0.014	0.70	25	27.9	0.097	12	13.16	110	0.04	1.2	1.53	2.3	2.3	9.5	1.1
105J_1989_3331	0	0.012	0.77	19	22.3	0.080	11	11.88	110	0.05	1.0	0.94	1.6	2.3	8.6	1.1
105J_1989_3332	0	0.013	0.57	23	23.8	0.080	10	13.49	100	0.05	1.1	0.72	1.2	2.1	7.4	1.0
105J_1989_3333	0	0.023	0.83	13	22.1	0.105	18	20.08	87	0.15	1.0	1.30	1.9	2.3	5.6	3.9
105J_1989_3334	0	0.007	0.40	60	56.8	0.125	13	14.10	99	0.10	2.3	1.87	3.4	3.3	10.0	1.8
105J_1989_3335	0	0.005	0.46	74	78.8	0.138	12	12.41	94	0.05	1.3	1.32	2.1	3.3	10.0	1.7
105J_1989_3336	0	0.007	0.60	50	52.9	0.123	9	10.17	100	0.03	1.5	1.02	1.9	3.1	11.0	1.2
105J_1989_3337	0	0.007	0.41	57	56.6	0.163	12	12.89	99	0.06	1.1	1.42	2.1	3.3	9.2	2.2
105J_1989_3338	0	0.007	0.50	65	63.1	0.140	15	13.79	99	0.07	2.2	1.95	3.2	3.1	10.0	2.3
105J_1989_3339	0	0.010	0.25	91	96.2	0.121	4	3.22	17	3.37	1.4	3.12	3.0	1.2	2.4	45.1
105J_1989_3340	0	0.008	0.52	90	88.5	0.104	14	14.01	99	0.08	1.6	1.35	2.4	3.3	10.0	1.9

Unique ID	Rep Stat	Sm INAA ppm 0.1	Sn AAS ppm 1	Sr ICP-MS ppm 0.5	Ta INAA ppm 0.5	Tb INAA ppm 0.5	Te ICP-MS ppm 0.02	Th ICP-MS ppm 0.1	Th INAA ppm 0.2	Ti ICP-MS % 0.001	Tl ICP-MS ppm 0.02	U ICP-MS ppm 0.1	U INAA ppm 0.2	U NADNC ppm 0.5	V AAS ppm 5	V ICP-MS ppm 2
105J_1989_3305	2	6.8	9	108.4	1.3	0.8	0.10	4.6	12.0	0.005	0.19	2.2	6.8	6.1	43	52
105J_1989_3306	0	7.3	4	55.3	1.2	0.8	0.06	5.0	13.0	0.004	0.10	1.1	4.8	4.0	19	22
105J_1989_3307	0	7.6	4	55.0	1.2	1.0	0.03	4.9	13.0	0.006	0.14	1.5	5.2	5.0	32	39
105J_1989_3308	0	8.0	3	40.4	1.2	0.9	0.06	7.3	16.0	0.008	0.13	1.8	5.0	4.6	23	25
105J_1989_3309	0	4.2	7	84.2	0.7	0.5	0.05	2.2	8.7	0.008	0.13	2.0	4.2	4.3	18	26
105J_1989_3311	0	4.4	6	103.5	0.6	0.5	0.03	2.5	10.0	0.004	0.11	1.5	3.9	3.6	14	18
105J_1989_3312	0	6.3	3	38.5	1.0	0.7	0.04	5.2	13.0	0.004	0.09	1.1	3.8	3.9	21	25
105J_1989_3313	0	4.5	7	87.5	0.9	0.6	0.02	3.3	10.0	0.003	0.19	1.3	3.4	3.8	25	28
105J_1989_3314	0	7.0	5	36.2	1.3	0.8	0.02	6.0	15.0	0.005	0.10	0.9	3.9	3.8	22	24
105J_1989_3315	0	8.4	3	34.7	1.1	0.8	0.04	4.5	16.0	0.005	0.08	0.7	4.2	3.8	18	21
105J_1989_3316	0	10.0	3	20.7	1.7	1.0	0.06	7.5	18.0	0.022	0.10	1.1	5.3	4.5	20	22
105J_1989_3317	0	8.1	5	31.2	1.1	0.8	0.02	1.9	12.0	0.014	0.17	2.6	6.2	5.7	22	27
105J_1989_3318	0	8.4	1	24.9	1.4	0.8	0.02	5.4	15.0	0.011	0.09	1.2	4.9	4.3	22	23
105J_1989_3319	0	11.4	4	24.6	1.3	0.9	0.05	5.4	16.0	0.009	0.07	0.9	4.3	4.0	20	22
105J_1989_3320	0	2.8	1	199.6	<0.5	<0.5	0.07	1.4	3.5	0.003	0.11	3.1	3.9	4.3	23	31
105J_1989_3322	1	3.8	4	41.4	0.8	0.6	0.02	1.2	6.3	0.005	0.23	1.5	3.5	4.0	41	62
105J_1989_3323	2	4.0	4	39.2	0.9	0.7	0.05	1.1	6.7	0.004	0.22	1.6	3.9	4.3	47	59
105J_1989_3324	0	2.5	5	46.9	<0.5	<0.5	<0.02	0.3	4.1	0.005	0.14	1.9	3.0	3.6	26	31
105J_1989_3325	0	4.5	4	45.6	1.2	0.8	0.05	2.3	7.6	0.004	0.15	1.5	4.4	4.3	42	45
105J_1989_3326	0	5.2	7	94.7	1.3	0.8	0.11	3.6	8.1	0.006	0.23	2.5	5.6	5.9	46	67
105J_1989_3327	0	3.6	2	46.8	0.9	0.5	0.05	2.0	5.8	0.005	0.17	1.3	3.5	3.4	34	52
105J_1989_3328	0	3.5	11	88.3	0.8	0.6	0.03	2.2	6.4	0.007	0.12	2.5	4.5	5.0	42	29
105J_1989_3329	0	6.9	1	39.9	1.3	0.9	0.07	4.0	11.0	0.016	0.16	1.6	4.6	4.4	42	41
105J_1989_3331	0	5.7	6	39.7	1.2	0.9	0.03	4.4	10.0	0.008	0.15	1.7	4.3	4.2	33	37
105J_1989_3332	0	7.8	7	38.0	1.2	1.1	0.03	4.4	12.0	0.008	0.18	1.4	4.1	4.7	38	31
105J_1989_3333	0	3.8	11	98.0	0.5	<0.5	0.06	3.7	10.0	0.006	0.30	6.6	9.1	8.7	42	41
105J_1989_3334	0	5.7	5	61.2	1.3	1.1	0.08	3.1	8.5	0.009	0.17	1.9	5.6	5.0	46	65
105J_1989_3335	0	6.2	5	58.1	1.5	1.1	0.07	2.1	8.7	0.009	0.20	2.2	5.6	5.2	47	57
105J_1989_3336	0	6.3	6	48.6	1.4	1.2	0.07	2.1	9.3	0.010	0.18	1.7	5.3	4.4	62	54
105J_1989_3337	0	5.2	4	65.5	1.2	0.8	0.09	2.1	7.4	0.009	0.23	2.4	5.2	5.2	56	71
105J_1989_3338	0	5.8	4	61.2	1.2	0.9	0.09	2.7	9.0	0.009	0.25	2.9	6.3	5.8	33	76
105J_1989_3339	0	1.3	6	72.2	<0.5	<0.5	0.05	0.6	2.1	0.005	0.17	9.6	9.4	10.4	113	162
105J_1989_3340	0	6.3	2	55.4	1.3	1.0	0.08	3.2	9.2	0.008	0.24	2.6	6.0	5.4	43	67

Unique ID	Rep Stat	W ICP-MS ppm 0.1	W INAA ppm 1	wt INAA g 0.01	Yb INAA ppm 2	Zn AAS ppm 2	Zn ICP-MS ppm 0.1
105J_1989_3305	2	<0.1	2	27.47	2	191	191.8
105J_1989_3306	0	<0.1	<1	36.99	2	136	131.6
105J_1989_3307	0	<0.1	2	39.40	3	143	136.4
105J_1989_3308	0	24.1	36	36.44	3	142	133.1
105J_1989_3309	0	<0.1	<1	24.72	<2	103	105.4
105J_1989_3311	0	0.1	<1	25.49	<2	69	67.1
105J_1989_3312	0	<0.1	2	30.00	3	99	91.5
105J_1989_3313	0	<0.1	1	19.09	2	121	103.5
105J_1989_3314	0	<0.1	<1	34.74	<2	103	98.9
105J_1989_3315	0	0.3	2	33.82	<2	84	81.4
105J_1989_3316	0	0.2	2	46.42	4	90	87.7
105J_1989_3317	0	0.1	2	32.01	3	85	84.9
105J_1989_3318	0	<0.1	1	38.97	3	82	81.9
105J_1989_3319	0	0.2	2	49.97	3	79	82.1
105J_1989_3320	0	<0.1	<1	19.28	<2	250	221.3
105J_1989_3322	1	<0.1	1	13.79	2	92	94.3
105J_1989_3323	2	<0.1	<1	23.97	2	98	95.5
105J_1989_3324	0	0.1	1	11.37	<2	83	78.0
105J_1989_3325	0	<0.1	1	36.48	<2	116	106.0
105J_1989_3326	0	<0.1	2	27.83	2	168	156.1
105J_1989_3327	0	<0.1	<1	37.45	<2	108	102.3
105J_1989_3328	0	<0.1	<1	25.06	<2	105	95.0
105J_1989_3329	0	0.2	2	38.65	2	200	198.0
105J_1989_3331	0	<0.1	2	33.11	<2	107	106.4
105J_1989_3332	0	1.0	2	27.26	3	122	118.6
105J_1989_3333	0	0.2	<1	20.95	<2	97	87.0
105J_1989_3334	0	<0.1	2	36.55	2	188	181.5
105J_1989_3335	0	<0.1	2	36.87	3	172	169.2
105J_1989_3336	0	0.1	2	38.26	3	193	192.8
105J_1989_3337	0	<0.1	1	42.92	2	211	217.3
105J_1989_3338	0	<0.1	1	39.50	3	268	274.9
105J_1989_3339	0	<0.1	<1	12.49	<2	650	578.1
105J_1989_3340	0	<0.1	2	38.66	3	258	258.5

Unique ID	Rep Stat	Ag AAS	Ag ICP-MS	Al ICP-MS	As HY-AAS	As ICP-MS	As INAA	Au INAA	Au1 INAA	Au1_wt -	B ICP-MS	Ba ICP-MS	Ba INAA	Bi ICP-MS	Br INAA	Ca ICP-MS
		ppm	ppb	%	ppm	ppm	ppm	ppb	ppb	g	ppm	ppm	ppm	ppm	ppm	%
		0.2	2	0.01	1	0.1	0.5	2	2	0.01	1	0.5	50	0.02	0.5	0.01
105J_1989_3342	0	1.1	965	1.36	7	10.9	13.0	12			5	611.6	2300	0.19	6.6	0.27
105J_1989_3343	0	0.7	870	2.77	9	14.6	18.0	23	24	20.81	6	557.4	4200	0.19	6.0	0.11
105J_1989_3345	0	0.5	572	1.15	16	23.9	36.0	22	20	40.94	6	656.6	3100	0.26	3.2	0.09
105J_1989_3346	1	0.3	423	0.88	10	14.1	19.0	11	13	18.56	6	864.3	6010	0.18	2.3	0.35
105J_1989_3347	2	0.3	453	0.93	10	14.4	20.0	10	12	40.34	6	834.9	5740	0.20	2.9	0.36
105J_1989_3348	0	0.9	926	0.99	15	18.4	25.0	13			8	1063.5	7150	0.19	3.1	0.48
105J_1989_3349	0	1.0	901	1.07	13	17.9	25.0	12			6	853.9	4700	0.21	4.5	0.46
105J_1989_3350	0	0.5	751	1.24	11	15.6	19.0	8			7	1011.5	5700	0.22	5.1	0.47
105J_1989_3351	0	1.2	1107	1.25	15	21.1	28.0	16	14	35.26	10	807.9	5460	0.24	2.8	0.49
105J_1989_3352	0	1.3	1450	1.00	20	27.2	33.0	13			9	1555.9	11600	0.20	5.1	0.57
105J_1989_3353	0	0.5	457	1.68	8	13.3	17.0	11			7	968.2	3300	0.24	7.7	0.50
105J_1989_3354	0	0.9	963	1.09	80	105.4	114.0	8			7	1373.0	3400	0.11	19.0	0.96
105J_1989_3355	0	1.8	1737	1.66	14	28.5	32.0	20	15	16.67	8	1150.4	3500	0.24	8.6	0.34
105J_1989_3356	0	0.6	969	1.91	10	15.7	23.0	16	13	28.82	5	557.6	3800	0.26	6.2	0.09
105J_1989_3357	0	0.4	394	0.88	8	30.2	32.0	6			6	648.9	2300	0.16	9.1	0.63
105J_1989_3358	0	0.3	485	0.96	3	5.9	7.5	7			7	216.4	1700	0.11	7.1	0.89
105J_1989_3359	0	0.4	514	1.08	10	15.1	20.0	10			7	1005.9	4600	0.19	4.0	0.31
105J_1989_3360	0	0.5	575	1.28	8	10.3	13.0	13			9	665.8	3100	0.19	2.0	0.33
105J_1989_3362	0	0.6	566	1.44	11	16.8	19.0	14	15	30.91	9	615.2	3000	0.20	2.9	0.38
105J_1989_3363	1	1.3	1142	1.11	10	13.8	17.0	29	16	12.87	7	690.0	4200	0.20	2.6	0.42
105J_1989_3364	2	0.8	1127	1.07	8	14.0	17.0	16	14	29.95	6	788.1	4400	0.20	2.7	0.40
105J_1989_3365	0	0.5	623	1.16	20	29.1	36.0	9			8	1129.8	4600	0.15	2.7	0.37
105J_1989_3366	0	0.3	582	1.17	10	16.9	20.0	9			7	880.8	3300	0.18	4.9	0.31
105J_1989_3367	0	0.7	679	1.41	20	35.6	43.0	11			6	1034.3	3500	0.18	6.4	0.47
105J_1989_3368	0	0.7	846	1.13	9	23.7	28.0	17	12	22.83	7	929.5	2800	0.22	3.6	0.34
105J_1989_3369	0	0.3	460	1.12	7	8.2	11.0	11			7	606.3	2800	0.18	3.7	0.30
105J_1989_3370	0	0.4	596	1.18	7	8.8	12.0	15	11	24.63	6	546.9	2800	0.19	8.0	0.35
105J_1989_3372	0	0.5	635	0.91	4	5.1	6.6	12			5	341.2	1700	0.14	10.0	0.30
105J_1989_3373	0	0.4	471	1.46	5	7.2	10.0	14	16	29.94	8	527.1	2700	0.16	4.7	0.53
105J_1989_3374	0	0.3	356	1.21	5	6.5	8.4	11			6	591.6	2700	0.17	2.1	0.34
105J_1989_3375	0	<0.2	328	0.85	7	8.1	12.0	8			5	725.0	3700	0.14	1.6	0.36
105J_1989_3376	0	0.2	303	0.96	6	7.9	11.0	9			4	580.3	2900	0.16	6.7	0.36
105J_1989_3377	0	0.2	346	0.76	9	12.2	16.0	7			3	835.4	3200	0.28	4.5	0.46

Unique ID	Rep Stat	Cd AAS	Cd ICP-MS	Ce INAA	Co AAS	Co ICP-MS	Co INAA	Cr ICP-MS	Cr INAA	Cs INAA	Cu AAS	Cu ICP-MS	Eu INAA	F ISE	Fe AAS	Fe ICP-MS	Fe INAA
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	pct	%	pct
		0.2	0.01	5	2	0.1	5	0.5	20	0.5	2	0.01	1	20	0.02	0.01	0.2
105J_1989_3342	0	2.3	3.26	47	16	13.9	17	20.7	69	3.9	69	72.51	<1	393	2.72	2.31	3.4
105J_1989_3343	0	1.4	2.93	57	71	87.9	88	20.8	84	5.6	244	245.11	<1	643	3.92	4.05	4.6
105J_1989_3345	0	1.3	1.86	56	30	32.1	41	28.0	96	4.2	135	157.96	1	378	3.71	4.00	5.5
105J_1989_3346	1	1.1	2.22	69	12	10.2	12	21.0	92	4.5	59	67.67	1	636	2.43	2.37	3.2
105J_1989_3347	2	2.0	2.08	63	11	10.5	14	21.2	85	4.5	59	68.04	<1	576	2.43	2.39	3.4
105J_1989_3348	0	3.9	4.24	62	9	8.3	12	23.8	110	7.4	59	61.24	<1	665	2.09	2.05	3.1
105J_1989_3349	0	5.6	5.67	51	12	10.5	12	26.9	100	4.2	66	72.93	<1	615	2.65	2.62	3.6
105J_1989_3350	0	7.8	7.35	62	14	13.0	14	25.0	98	4.3	53	54.06	<1	590	2.30	2.19	3.0
105J_1989_3351	0	3.7	4.94	55	15	13.6	18	31.6	110	5.1	96	100.82	1	619	2.92	2.95	3.9
105J_1989_3352	0	8.0	8.72	57	14	13.2	15	29.8	140	6.5	88	97.90	1	708	2.67	2.80	3.5
105J_1989_3353	0	0.9	1.33	64	15	14.0	18	25.9	95	6.6	70	75.08	<1	476	3.40	3.44	4.8
105J_1989_3354	0	17.1	17.94	30	21	21.7	28	16.5	67	6.7	40	40.48	<1	510	5.08	6.59	8.3
105J_1989_3355	0	5.4	5.63	50	22	18.8	18	18.5	83	37.0	77	80.61	1	488	3.63	2.98	3.6
105J_1989_3356	0	2.6	3.82	52	35	47.9	44	19.6	94	8.9	231	274.62	1	462	3.83	3.27	4.5
105J_1989_3357	0	1.1	2.32	29	18	10.5	11	15.6	40	3.5	41	43.82	<1	359	14.00	10.49	11.0
105J_1989_3358	0	1.6	2.50	37	7	4.8	6	15.0	45	3.9	43	45.44	<1	406	1.61	1.29	1.8
105J_1989_3359	0	1.2	2.43	61	11	11.1	14	18.8	87	6.0	50	52.63	<1	497	2.40	2.19	3.3
105J_1989_3360	0	1.5	2.14	43	9	8.5	10	27.1	89	3.8	59	64.90	<1	609	2.14	1.97	2.7
105J_1989_3362	0	0.6	1.72	53	13	11.6	16	22.1	81	4.8	68	72.32	<1	592	2.70	2.48	3.5
105J_1989_3363	1	5.2	5.36	46	13	10.8	13	23.7	91	4.2	84	88.79	<1	577	2.58	2.43	3.2
105J_1989_3364	2	3.6	4.72	48	11	11.0	13	23.4	120	4.7	80	89.17	<1	525	2.48	2.39	3.4
105J_1989_3365	0	6.3	7.30	49	18	17.1	20	22.1	91	6.0	61	64.50	<1	538	2.89	2.95	3.8
105J_1989_3366	0	0.9	2.01	46	14	11.0	13	21.1	73	4.9	48	53.79	<1	515	2.82	2.61	3.1
105J_1989_3367	0	1.5	2.99	42	14	13.9	16	21.1	68	5.6	45	49.03	<1	394	3.47	3.44	3.9
105J_1989_3368	0	1.3	2.97	38	20	21.4	21	20.9	59	4.0	78	93.59	<1	520	7.51	9.33	10.0
105J_1989_3369	0	1.1	2.15	45	12	11.9	15	20.2	79	4.1	59	67.29	<1	467	2.26	2.18	3.2
105J_1989_3370	0	1.1	2.31	52	13	12.4	14	20.0	81	4.2	59	68.95	<1	510	2.42	2.47	3.4
105J_1989_3372	0	1.3	1.26	35	9	7.6	9	16.1	56	3.2	49	52.86	<1	406	1.97	1.55	2.5
105J_1989_3373	0	1.0	1.41	42	12	10.3	15	22.0	79	4.7	66	77.99	<1	719	2.25	2.22	3.4
105J_1989_3374	0	0.6	1.50	42	10	9.0	12	16.8	71	4.2	62	64.74	<1	625	1.96	1.69	2.4
105J_1989_3375	0	1.3	1.63	44	12	10.3	13	14.6	66	3.7	57	58.90	<1	558	2.18	2.05	3.0
105J_1989_3376	0	1.2	1.63	45	14	12.3	16	17.1	73	3.9	59	61.34	<1	624	2.41	2.27	3.1
105J_1989_3377	0	0.6	1.18	50	11	9.5	12	11.8	56	6.2	32	31.82	<1	443	2.42	2.14	2.9

Unique ID	Rep Stat	Ga ICP-MS ppm 0.2	Hf INAA ppm 1	Hg CV-AAS ppb 10	Hg ICP-MS ppb 5	K ICP-MS % 0.01	La ICP-MS ppm 0.5	La INAA ppm 2	LOI GRAV pct 1.0	Lu INAA ppm 0.2	Mg ICP-MS % 0.01	Mn AAS ppm 5	Mn ICP-MS ppm 1	Mo AAS ppm 2	Mo ICP-MS ppm 0.01	Mo INAA ppm 1
105J_1989_3342	0	3.9	3	338	354	0.16	8.7	26	12.6	<0.2	0.29	2652	2192	3	4.55	6
105J_1989_3343	0	4.2	3	600	576	0.23	11.0	28	12.5	<0.2	0.43	8811	>10000	9	12.09	14
105J_1989_3345	0	4.6	3	403	458	0.19	8.8	35	6.2	<0.2	0.24	5144	4805	3	6.49	10
105J_1989_3346	1	3.0	8	184	182	0.15	15.8	41	4.5	<0.2	0.35	526	616	3	4.42	6
105J_1989_3347	2	3.1	8	202	208	0.15	15.8	42	5.2	<0.2	0.36	545	649	3	4.40	6
105J_1989_3348	0	3.1	6	391	435	0.16	12.8	40	8.6	<0.2	0.33	398	417	5	5.80	8
105J_1989_3349	0	3.2	4	306	313	0.17	14.9	34	7.7	<0.2	0.33	1068	1217	5	7.30	10
105J_1989_3350	0	3.5	6	234	232	0.15	18.8	37	8.1	<0.2	0.39	979	1027	5	5.48	8
105J_1989_3351	0	4.2	4	356	405	0.19	17.6	39	8.8	<0.2	0.54	799	917	7	8.96	12
105J_1989_3352	0	3.2	4	492	521	0.20	13.5	34	9.9	<0.2	0.35	834	941	8	8.88	13
105J_1989_3353	0	5.0	4	279	310	0.20	10.0	41	14.5	<0.2	0.68	620	666	4	4.50	6
105J_1989_3354	0	3.1	3	520	511	0.12	5.9	17	21.6	<0.2	0.26	8455	9340	33	40.02	44
105J_1989_3355	0	3.5	<1	990	1015	0.20	7.1	26	19.6	<0.2	0.20	1736	1286	<2	2.22	3
105J_1989_3356	0	3.2	4	524	606	0.19	5.8	32	12.0	<0.2	0.18	1086	1388	5	4.56	6
105J_1989_3357	0	2.7	3	338	427	0.14	10.1	21	24.5	<0.2	0.32	579	617	5	3.97	4
105J_1989_3358	0	2.6	3	284	289	0.13	6.9	21	35.8	<0.2	0.36	303	260	3	2.43	4
105J_1989_3359	0	3.4	5	275	312	0.18	10.8	36	7.7	<0.2	0.33	671	709	3	3.62	5
105J_1989_3360	0	4.3	3	320	362	0.24	10.1	29	8.2	<0.2	0.37	637	691	3	3.32	4
105J_1989_3362	0	4.3	4	353	442	0.24	10.7	32	9.6	<0.2	0.56	765	628	5	4.25	6
105J_1989_3363	1	3.7	3	382	459	0.18	7.9	27	11.4	<0.2	0.34	1068	1087	10	12.40	16
105J_1989_3364	2	3.6	3	382	468	0.18	8.3	30	11.1	<0.2	0.33	948	1003	11	13.07	16
105J_1989_3365	0	3.2	3	364	391	0.20	10.4	28	7.1	<0.2	0.31	1032	1180	6	6.84	9
105J_1989_3366	0	3.7	4	295	328	0.18	10.7	26	11.1	<0.2	0.34	1086	1069	4	3.43	5
105J_1989_3367	0	4.2	3	347	429	0.20	9.7	23	16.1	<0.2	0.35	6995	5459	7	7.69	11
105J_1989_3368	0	3.8	3	360	475	0.21	12.0	27	13.6	<0.2	0.33	1282	1667	6	6.88	7
105J_1989_3369	0	3.7	4	254	253	0.22	9.7	29	7.3	<0.2	0.35	1050	1132	3	3.50	5
105J_1989_3370	0	3.5	4	259	281	0.19	9.9	30	8.9	<0.2	0.38	975	1156	3	3.96	5
105J_1989_3372	0	3.1	3	252	294	0.14	6.3	22	15.4	<0.2	0.23	882	711	<2	2.63	4
105J_1989_3373	0	4.5	4	252	248	0.27	10.1	29	9.1	<0.2	0.59	554	624	3	3.36	5
105J_1989_3374	0	3.4	3	223	263	0.18	10.2	27	9.8	<0.2	0.50	329	343	4	3.41	5
105J_1989_3375	0	2.7	4	191	225	0.15	10.0	26	5.8	<0.2	0.38	712	831	3	3.04	5
105J_1989_3376	0	2.9	4	198	239	0.14	11.0	29	6.1	<0.2	0.42	1282	1443	<2	2.96	4
105J_1989_3377	0	2.2	6	216	215	0.08	7.7	32	8.5	<0.2	0.22	692	715	<2	2.05	3

Unique ID	Rep Stat	Na ICP-MS % 0.001	Na INAA pct 0.02	Ni AAS ppm 2	Ni ICP-MS ppm 0.1	P ICP-MS % 0.001	Pb AAS ppm 2	Pb ICP-MS ppm 0.01	Rb INAA ppm 5	S ICP-MS % 0.01	Sb HY-AAS ppm 0.2	Sb ICP-MS ppm 0.02	Sb INAA ppm 0.1	Sc ICP-MS ppm 0.1	Sc INAA ppm 0.2	Se ICP-MS ppm 0.1
105J_1989_3342	0	0.016	0.86	93	89.8	0.142	12	10.38	97	0.08	1.5	1.50	2.4	2.0	10.0	2.1
105J_1989_3343	0	0.004	0.16	130	133.7	0.134	16	16.21	130	0.26	3.8	3.92	5.9	4.4	9.5	3.9
105J_1989_3345	0	0.003	0.12	80	85.3	0.105	17	18.77	93	0.15	1.9	2.34	4.3	3.9	11.0	3.0
105J_1989_3346	1	0.005	0.52	45	48.0	0.150	12	11.26	100	0.06	2.0	2.60	3.9	2.7	9.4	1.5
105J_1989_3347	2	0.006	0.58	44	48.0	0.144	13	11.82	110	0.06	2.7	2.48	4.0	2.7	10.0	1.9
105J_1989_3348	0	0.007	0.53	67	62.1	0.152	13	10.42	120	0.06	3.0	3.05	5.5	2.6	10.0	3.0
105J_1989_3349	0	0.006	0.43	76	75.7	0.180	14	13.29	100	0.10	3.4	3.35	5.7	2.9	10.0	3.3
105J_1989_3350	0	0.009	0.61	89	88.6	0.158	13	11.16	110	0.06	2.8	2.83	4.5	2.6	10.0	2.5
105J_1989_3351	0	0.007	0.43	71	70.6	0.179	17	16.48	110	0.10	5.0	4.18	6.6	3.3	10.0	4.1
105J_1989_3352	0	0.006	0.32	147	148.5	0.206	14	14.61	110	0.13	5.0	4.79	7.0	3.4	10.0	5.5
105J_1989_3353	0	0.009	0.62	49	49.2	0.141	18	16.95	130	0.12	1.5	1.57	3.1	4.4	15.0	2.5
105J_1989_3354	0	0.011	0.66	391	378.5	0.632	8	7.08	49	0.17	9.0	6.03	8.0	1.6	8.1	11.4
105J_1989_3355	0	0.008	0.42	142	149.2	0.112	19	17.89	160	0.11	2.5	1.59	3.0	6.3	13.0	4.8
105J_1989_3356	0	0.004	0.27	73	75.0	0.133	20	18.59	130	0.12	2.2	2.20	4.0	4.9	12.0	3.1
105J_1989_3357	0	0.008	0.34	24	30.7	0.349	8	9.33	54	0.38	1.0	1.38	1.8	2.9	6.8	8.7
105J_1989_3358	0	0.015	0.63	34	34.3	0.087	8	6.61	70	0.95	1.0	1.15	1.5	2.5	7.0	11.2
105J_1989_3359	0	0.006	0.52	49	44.4	0.127	12	11.66	100	0.06	1.9	1.83	3.3	2.7	10.0	2.1
105J_1989_3360	0	0.006	0.28	42	41.7	0.159	13	10.20	87	0.05	11.6	1.53	2.9	2.8	8.7	2.3
105J_1989_3362	0	0.006	0.36	49	48.7	0.124	14	12.29	110	0.07	2.1	1.98	3.2	3.3	10.0	2.4
105J_1989_3363	1	0.005	0.33	89	80.7	0.108	12	10.78	100	0.07	5.0	4.51	7.4	3.2	10.0	4.4
105J_1989_3364	2	0.005	0.37	79	76.9	0.114	12	10.77	100	0.07	5.5	4.71	7.1	3.2	10.0	4.6
105J_1989_3365	0	0.004	0.23	108	111.1	0.222	9	9.15	93	0.10	3.6	3.05	5.1	2.7	8.0	3.9
105J_1989_3366	0	0.007	0.43	49	48.4	0.141	12	10.56	96	0.06	1.9	1.68	2.8	2.8	7.7	2.7
105J_1989_3367	0	0.010	0.42	77	82.2	0.143	9	9.50	110	0.10	1.8	1.28	2.4	3.2	7.6	4.2
105J_1989_3368	0	0.005	0.29	68	76.6	0.293	11	13.76	82	0.18	2.6	2.69	4.0	3.6	8.3	4.6
105J_1989_3369	0	0.006	0.38	54	53.3	0.135	11	11.03	110	0.06	1.8	1.57	2.9	2.9	9.5	2.8
105J_1989_3370	0	0.005	0.49	69	64.1	0.123	11	11.82	100	0.06	2.0	1.75	2.9	3.0	10.0	2.3
105J_1989_3372	0	0.020	1.10	38	43.0	0.116	9	8.67	78	0.09	1.1	0.99	1.5	0.9	7.9	3.4
105J_1989_3373	0	0.006	0.44	39	39.6	0.188	13	10.99	110	0.06	1.5	1.37	2.4	3.0	10.0	1.9
105J_1989_3374	0	0.006	0.35	39	38.6	0.134	11	10.76	100	0.12	1.3	0.97	2.0	2.6	9.1	1.8
105J_1989_3375	0	0.004	0.27	38	38.6	0.141	11	9.82	91	0.06	1.4	1.19	2.4	2.7	8.3	2.3
105J_1989_3376	0	0.005	0.43	57	53.3	0.129	13	11.04	96	0.03	1.6	1.11	2.2	2.8	8.9	1.9
105J_1989_3377	0	0.009	0.68	24	26.5	0.091	15	14.25	110	0.05	1.9	1.49	2.9	2.4	8.9	1.5

Unique ID	Rep Stat	Sm INAA	Sn AAS	Sr ICP-MS	Ta INAA	Tb INAA	Te ICP-MS	Th ICP-MS	Th INAA	Ti ICP-MS	Tl ICP-MS	U ICP-MS	U INAA	U NADNC	V AAS	V ICP-MS
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.5	0.5	0.5	0.02	0.1	0.2	0.001	0.02	0.1	0.2	0.5	5	2
105J_1989_3342	0	5.0	3	39.8	0.9	0.9	0.05	0.8	7.0	0.011	0.29	3.1	5.9	5.7	35	72
105J_1989_3343	0	8.2	7	50.8	1.1	1.8	0.11	4.0	8.9	0.005	0.67	5.8	10.0	9.6	46	92
105J_1989_3345	0	7.9	3	52.1	1.4	1.6	0.15	3.0	8.7	0.004	0.24	4.0	8.6	7.0	79	107
105J_1989_3346	1	7.0	4	58.3	1.4	1.2	0.11	3.2	10.0	0.013	0.21	2.9	7.3	6.1	26	82
105J_1989_3347	2	7.0	2	58.3	1.3	1.1	0.07	3.1	10.0	0.013	0.22	3.1	7.2	6.4	35	84
105J_1989_3348	0	6.6	9	70.0	1.4	1.1	0.07	2.1	9.2	0.011	0.31	6.1	12.0	10.1	75	140
105J_1989_3349	0	6.1	5	88.0	1.3	1.1	0.15	2.1	8.0	0.008	0.31	4.8	9.0	8.3	86	131
105J_1989_3350	0	6.4	8	59.6	1.1	1.1	0.07	2.3	8.8	0.014	0.31	4.0	7.8	7.3	84	113
105J_1989_3351	0	6.7	5	97.2	1.2	1.1	0.12	2.9	9.5	0.010	0.37	6.8	12.0	10.5	118	166
105J_1989_3352	0	6.2	2	114.4	1.0	1.0	0.09	2.3	8.1	0.007	0.40	6.5	11.0	9.9	106	168
105J_1989_3353	0	6.8	4	97.2	1.4	1.1	0.07	2.8	11.0	0.003	0.26	3.4	7.6	7.1	49	66
105J_1989_3354	0	3.6	7	98.1	0.6	0.6	0.08	0.6	4.3	0.015	0.49	4.1	5.7	5.7	237	307
105J_1989_3355	0	10.2	4	53.2	0.5	1.9	0.08	2.5	9.4	0.001	0.85	1.5	4.2	4.5	53	61
105J_1989_3356	0	9.2	4	39.6	1.2	1.8	0.09	3.0	10.0	0.003	0.59	2.3	5.8	5.1	66	65
105J_1989_3357	0	4.0	6	103.1	0.8	0.8	0.06	2.8	5.8	0.006	0.25	1.4	3.1	3.4	42	56
105J_1989_3358	0	3.3	3	107.4	0.8	0.6	0.03	1.5	5.8	0.004	0.22	2.4	4.6	4.4	31	42
105J_1989_3359	0	5.7	4	49.1	1.3	1.0	0.07	2.0	9.2	0.007	0.28	2.5	5.9	5.7	34	67
105J_1989_3360	0	4.7	5	57.7	1.1	0.8	0.08	1.7	6.6	0.006	0.25	2.7	5.7	5.6	83	116
105J_1989_3362	0	5.2	6	64.3	1.1	0.9	0.08	2.6	8.3	0.006	0.28	2.8	6.5	6.1	97	90
105J_1989_3363	1	5.0	6	57.1	1.0	0.8	0.07	2.0	7.2	0.005	0.46	8.5	12.0	11.8	114	188
105J_1989_3364	2	5.1	6	56.2	1.1	1.0	0.06	2.1	7.3	0.005	0.43	8.8	13.0	12.5	126	189
105J_1989_3365	0	4.7	5	69.1	1.0	0.8	0.08	2.3	6.7	0.005	0.44	4.2	7.3	6.8	103	141
105J_1989_3366	0	4.8	2	47.5	0.9	0.8	0.07	2.1	7.4	0.007	0.24	2.4	5.3	5.3	65	74
105J_1989_3367	0	4.6	2	63.0	1.0	1.0	0.10	2.5	7.2	0.005	0.31	2.8	5.7	5.1	41	82
105J_1989_3368	0	5.3	6	58.1	1.0	1.0	0.10	3.8	7.2	0.006	0.34	3.6	6.6	6.3	65	109
105J_1989_3369	0	5.2	4	55.9	1.2	0.9	0.10	2.2	7.6	0.007	0.24	2.4	5.9	5.2	66	82
105J_1989_3370	0	5.3	6	58.6	1.2	1.0	0.07	2.2	8.2	0.007	0.22	2.5	5.8	5.4	87	84
105J_1989_3372	0	3.9	3	43.8	0.9	0.7	0.03	0.2	6.0	0.005	0.17	1.6	4.0	4.3	33	58
105J_1989_3373	0	5.1	7	85.2	1.2	0.9	0.08	2.4	8.1	0.007	0.24	3.0	7.3	6.5	52	87
105J_1989_3374	0	4.6	5	67.3	1.0	0.7	0.06	1.7	7.6	0.006	0.22	2.4	5.7	5.1	32	62
105J_1989_3375	0	4.7	4	61.7	1.0	0.6	0.07	2.6	6.9	0.007	0.18	2.1	5.3	4.3	28	53
105J_1989_3376	0	5.1	5	62.1	1.1	0.9	0.08	2.5	8.2	0.008	0.15	2.0	5.3	4.9	39	51
105J_1989_3377	0	5.3	<1	54.9	1.1	0.8	0.07	2.2	10.0	0.007	0.17	1.3	4.6	4.0	56	38

Unique ID	Rep Stat	W ICP-MS ppm 0.1	W INAA ppm 1	wt INAA g 0.01	Yb INAA ppm 2	Zn AAS ppm 2	Zn ICP-MS ppm 0.1
105J_1989_3342	0	<0.1	<1	26.19	2	272	275.1
105J_1989_3343	0	<0.1	<1	25.83	4	533	483.7
105J_1989_3345	0	<0.1	<1	42.01	4	205	222.1
105J_1989_3346	1	0.6	2	25.36	4	217	228.8
105J_1989_3347	2	0.4	2	45.72	4	216	230.7
105J_1989_3348	0	0.2	3	37.87	3	626	583.0
105J_1989_3349	0	0.1	1	40.23	3	555	554.4
105J_1989_3350	0	1.0	3	34.43	3	803	712.9
105J_1989_3351	0	0.1	2	37.69	3	434	446.3
105J_1989_3352	0	0.2	2	34.15	3	1230	1165.6
105J_1989_3353	0	<0.1	<1	31.41	3	189	184.3
105J_1989_3354	0	<0.1	1	22.10	<2	2250	2075.0
105J_1989_3355	0	<0.1	<1	24.16	2	535	510.2
105J_1989_3356	0	<0.1	1	33.27	3	384	435.7
105J_1989_3357	0	<0.1	<1	18.52	<2	199	188.6
105J_1989_3358	0	<0.1	<1	18.53	<2	154	154.7
105J_1989_3359	0	0.7	2	39.91	3	239	237.8
105J_1989_3360	0	<0.1	<1	38.35	3	171	174.3
105J_1989_3362	0	<0.1	2	34.82	3	237	256.6
105J_1989_3363	1	<0.1	2	15.32	3	602	570.3
105J_1989_3364	2	<0.1	1	35.07	2	538	525.9
105J_1989_3365	0	<0.1	1	25.70	3	669	629.7
105J_1989_3366	0	<0.1	2	36.26	<2	208	211.8
105J_1989_3367	0	<0.1	<1	29.42	<2	316	345.0
105J_1989_3368	0	<0.1	1	28.04	2	316	323.7
105J_1989_3369	0	<0.1	1	42.75	3	227	230.9
105J_1989_3370	0	<0.1	2	38.07	2	273	311.4
105J_1989_3372	0	<0.1	<1	26.18	<2	128	127.5
105J_1989_3373	0	<0.1	1	44.42	2	182	196.2
105J_1989_3374	0	<0.1	<1	39.69	2	178	170.2
105J_1989_3375	0	<0.1	1	46.24	2	160	153.7
105J_1989_3376	0	<0.1	1	43.52	<2	193	177.9
105J_1989_3377	0	0.8	2	40.15	<2	149	143.0

Unique ID	Rep Stat	Ag AAS	Ag ICP-MS	Al ICP-MS	As HY-AAS	As ICP-MS	As INAA	Au INAA	Au1 INAA	Au1_wt -	B ICP-MS	Ba ICP-MS	Ba INAA	Bi ICP-MS	Br INAA	Ca ICP-MS
		ppm	ppb	%	ppm	ppm	ppm	ppb	ppb	g	ppm	ppm	ppm	ppm	ppm	%
		0.2	2	0.01	1	0.1	0.5	2	2	0.01	1	0.5	50	0.02	0.5	0.01
105J_1989_3378	0	1.5	1466	0.95	6	7.6	12.0	11			6	540.0	2100	0.16	9.0	0.54
105J_1989_3379	0	1.4	1530	1.60	14	20.4	27.0	13			4	989.9	3600	0.32	2.4	0.18
105J_1989_3380	0	1.7	1742	0.85	30	38.8	47.0	9			5	1015.9	4000	0.21	13.0	0.82
105J_1989_3382	1	0.8	817	0.94	7	12.1	16.0	7			4	786.5	3200	0.19	1.8	0.75
105J_1989_3383	2	0.8	916	1.02	9	13.3	18.0	8			5	839.8	3300	0.20	2.3	0.79
105J_1989_3384	0	2.1	2043	0.96	14	17.2	22.0	14	12	31.60	5	1234.7	6130	0.24	2.1	0.69
105J_1989_3385	0	0.6	835	0.59	7	8.6	11.0	5			5	425.2	2000	0.12	3.5	1.28
105J_1989_3386	0	0.8	991	0.90	17	22.5	29.0	10			5	986.2	4600	0.21	2.7	0.84
105J_1989_3387	0	1.1	1115	0.82	18	26.0	30.0	14	11	30.31	5	691.4	7350	0.27	3.3	0.63
105J_1989_3388	0	0.6	858	0.99	50	25.2	32.0	10			4	1402.2	5430	0.29	1.7	0.50
105J_1989_3389	0	0.6	598	1.10	13	19.2	23.0	5			4	796.2	3100	0.27	1.7	0.35
105J_1989_3390	0	0.3	178	1.68	1	3.3	4.0	<2			1	59.9	64	<0.02	10.0	0.34
105J_1989_3391	0	2.1	2144	1.00	10	9.3	19.0	13			5	237.5	1900	0.17	6.7	1.40
105J_1989_3392	0	0.6	682	0.26	9	34.3	31.0	4			1	102.1	210	0.08	29.0	0.28
105J_1989_3393	0	0.8	925	2.98	11	31.3	32.0	5			7	51.5	340	0.09	6.7	0.31

Silt Data - GSC Open File 5694 / YGS Open File 2008-4

Unique ID	Rep Stat	Cd AAS	Cd ICP-MS	Ce INAA	Co AAS	Co ICP-MS	Co INAA	Cr ICP-MS	Cr INAA	Cs INAA	Cu AAS	Cu ICP-MS	Eu INAA	F ISE	Fe AAS	Fe ICP-MS	Fe INAA
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	pct	%	pct
		0.2	0.01	5	2	0.1	5	0.5	20	0.5	2	0.01	1	20	0.02	0.01	0.2
105J_1989_3378	0	3.4	4.06	36	8	5.2	7	18.4	74	5.1	57	59.99	<1	392	2.40	1.93	2.7
105J_1989_3379	0	5.6	5.77	44	10	6.4	7	31.0	100	5.5	77	83.40	<1	495	3.02	2.50	2.7
105J_1989_3380	0	9.3	9.76	37	11	10.1	11	19.1	90	4.1	71	77.55	<1	509	3.10	3.42	4.2
105J_1989_3382	1	2.2	2.72	52	8	5.9	6	19.8	85	3.9	45	47.17	<1	551	1.52	1.30	1.8
105J_1989_3383	2	2.7	3.02	49	9	6.4	8	21.4	87	4.1	50	52.08	<1	508	1.74	1.43	1.9
105J_1989_3384	0	5.2	5.59	55	10	9.0	10	34.2	120	4.0	93	98.49	<1	574	1.99	2.08	2.8
105J_1989_3385	0	7.3	6.98	42	8	7.2	9	19.9	86	2.7	49	50.54	<1	456	1.22	1.12	1.7
105J_1989_3386	0	6.1	6.32	61	12	11.3	14	21.7	100	4.1	65	63.99	<1	597	2.39	2.41	3.0
105J_1989_3387	0	5.1	5.42	63	15	15.0	17	18.8	100	4.6	72	79.38	<1	616	2.96	3.27	4.1
105J_1989_3388	0	5.6	5.86	62	13	12.2	14	22.5	96	4.5	58	60.61	<1	524	2.42	2.41	3.0
105J_1989_3389	0	1.2	1.94	46	8	6.5	9	17.7	69	4.6	33	35.46	<1	441	1.91	1.85	2.2
105J_1989_3390	0	7.9	10.42	<5	18	6.9	6	7.4	<20	<0.5	73	94.66	<1	170	24.60	21.58	22.2
105J_1989_3391	0	15.4	14.83	31	6	4.4	5	24.4	90	3.4	66	70.09	<1	454	1.31	1.08	1.9
105J_1989_3392	0	<0.2	0.40	<5	17	1.4	<5	15.4	<20	1.8	22	26.17	<1	80	26.50	23.19	23.9
105J_1989_3393	0	20.5	22.75	16	89	102.7	96	7.9	21	6.1	150	161.60	2	466	6.33	5.89	6.0

Unique ID	Rep Stat	Ga ICP-MS ppm 0.2	Hf INAA ppm 1	Hg CV-AAS ppb 10	Hg ICP-MS ppb 5	K ICP-MS % 0.01	La ICP-MS ppm 0.5	La INAA ppm 2	LOI GRAV pct 1.0	Lu INAA ppm 0.2	Mg ICP-MS % 0.01	Mn AAS ppm 5	Mn ICP-MS ppm 1	Mo AAS ppm 2	Mo ICP-MS ppm 0.01	Mo INAA ppm 1
105J_1989_3378	0	2.8	3	349	689	0.14	7.8	23	17.2	<0.2	0.20	1335	1205	<2	2.37	4
105J_1989_3379	0	4.4	3	198	433	0.14	16.3	29	10.4	<0.2	0.28	308	321	11	12.20	16
105J_1989_3380	0	2.4	4	220	560	0.12	9.3	27	14.9	<0.2	0.21	1905	2285	10	12.47	15
105J_1989_3382	1	3.0	3	198	240	0.12	12.7	27	11.1	<0.2	0.27	268	271	7	8.37	12
105J_1989_3383	2	3.3	4	216	234	0.13	13.3	30	12.3	<0.2	0.28	339	338	7	9.39	12
105J_1989_3384	0	3.1	4	349	450	0.14	15.9	35	9.4	<0.2	0.31	277	334	9	10.49	13
105J_1989_3385	0	2.0	3	198	244	0.07	8.7	24	24.2	<0.2	0.22	706	571	4	5.36	7
105J_1989_3386	0	2.7	4	220	261	0.13	13.4	37	10.5	<0.2	0.34	927	993	12	13.04	18
105J_1989_3387	0	2.5	6	214	246	0.12	13.5	41	7.8	<0.2	0.27	1727	2063	9	10.35	13
105J_1989_3388	0	3.1	6	184	223	0.14	16.7	38	5.8	<0.2	0.27	602	706	9	11.28	13
105J_1989_3389	0	3.4	4	155	186	0.13	14.8	27	5.4	<0.2	0.29	510	539	3	4.65	6
105J_1989_3390	0	0.2	<1	48	45	0.01	8.4	8	63.2	<0.2	0.03	109	113	<2	0.48	<1
105J_1989_3391	0	2.6	2	1071	973	0.08	6.9	22	28.8	<0.2	0.19	61	54	20	23.36	28
105J_1989_3392	0	0.5	<1	528	602	0.02	2.5	4	57.4	<0.2	0.04	85	102	5	9.41	6
105J_1989_3393	0	0.9	<1	680	712	0.06	8.9	14	40.4	<0.2	0.05	125	162	11	11.73	12

Unique ID	Rep Stat	Na ICP-MS % 0.001	Na INAA pct 0.02	Ni AAS ppm 2	Ni ICP-MS ppm 0.1	P ICP-MS % 0.001	Pb AAS ppm 2	Pb ICP-MS ppm 0.01	Rb INAA ppm 5	S ICP-MS % 0.01	Sb HY-AAS ppm 0.2	Sb ICP-MS ppm 0.02	Sb INAA ppm 0.1	Sc ICP-MS ppm 0.1	Sc INAA ppm 0.2	Se ICP-MS ppm 0.1
105J_1989_3378	0	0.017	1.00	50	52.7	0.126	8	8.30	96	0.21	1.6	1.57	2.9	2.4	7.3	3.5
105J_1989_3379	0	0.004	0.27	40	39.6	0.159	13	13.28	120	0.04	6.0	2.93	7.8	3.4	9.1	4.5
105J_1989_3380	0	0.007	0.36	105	104.9	0.248	13	11.50	91	0.15	3.6	4.03	6.8	2.5	8.6	6.5
105J_1989_3382	1	0.009	0.54	51	51.6	0.148	8	8.54	110	0.10	1.9	1.81	3.2	2.4	7.8	4.9
105J_1989_3383	2	0.010	0.55	56	55.9	0.148	8	8.93	100	0.11	2.1	2.00	3.7	2.6	8.7	5.6
105J_1989_3384	0	0.007	0.47	87	82.9	0.182	13	12.22	120	0.10	5.0	4.43	7.4	3.3	10.0	5.5
105J_1989_3385	0	0.015	0.73	83	93.1	0.145	6	5.60	66	0.18	2.0	2.73	3.5	1.8	6.8	5.7
105J_1989_3386	0	0.009	0.51	105	103.9	0.165	11	11.12	110	0.14	5.0	3.74	6.6	2.7	9.3	5.4
105J_1989_3387	0	0.009	0.50	83	82.2	0.174	14	12.74	110	0.32	4.0	3.72	6.3	3.3	9.2	7.0
105J_1989_3388	0	0.012	0.60	69	65.5	0.169	13	12.04	110	0.07	4.0	3.59	6.7	2.8	8.6	5.1
105J_1989_3389	0	0.014	0.70	37	37.0	0.122	10	9.59	120	0.04	2.7	1.64	3.1	2.3	7.3	2.2
105J_1989_3390	0	0.003	<0.02	43	88.0	0.064	<2	1.06	<5	0.84	0.2	0.80	0.7	2.0	1.8	2.8
105J_1989_3391	0	0.014	0.80	152	148.5	0.150	9	9.01	80	0.91	2.7	4.74	6.4	1.7	6.7	36.9
105J_1989_3392	0	0.005	0.10	3	16.0	0.210	2	3.28	<5	0.27	0.6	2.05	1.7	4.0	3.6	13.4
105J_1989_3393	0	0.004	0.13	741	733.7	0.077	5	5.55	30	3.82	2.0	2.68	3.1	4.7	6.0	8.3

Unique ID	Rep Stat	Sm INAA ppm 0.1	Sn AAS ppm 1	Sr ICP-MS ppm 0.5	Ta INAA ppm 0.5	Tb INAA ppm 0.5	Te ICP-MS ppm 0.02	Th ICP-MS ppm 0.1	Th INAA ppm 0.2	Ti ICP-MS % 0.001	Tl ICP-MS ppm 0.02	U ICP-MS ppm 0.1	U INAA ppm 0.2	U NADNC ppm 0.5	V AAS ppm 5	V ICP-MS ppm 2
105J_1989_3378	0	3.9	6	59.8	0.7	0.7	0.06	1.3	6.4	0.008	0.28	2.9	5.7	5.8	77	81
105J_1989_3379	0	5.7	5	48.0	1.0	1.1	0.08	2.5	10.0	0.008	0.45	6.6	11.0	9.1	112	177
105J_1989_3380	0	5.4	7	98.0	0.9	0.9	0.10	1.1	7.0	0.008	0.32	8.6	13.0	11.9	136	187
105J_1989_3382	1	4.4	5	60.1	0.8	1.0	0.05	2.7	7.2	0.012	0.28	9.3	13.0	11.4	84	107
105J_1989_3383	2	4.8	10	60.7	1.0	0.8	0.04	2.6	7.7	0.013	0.29	10.3	14.0	12.8	102	115
105J_1989_3384	0	6.1	6	112.0	1.2	1.0	0.09	2.4	8.7	0.011	0.49	9.1	13.0	12.7	123	221
105J_1989_3385	0	3.7	9	99.9	0.7	0.6	0.06	1.7	5.2	0.014	0.43	16.5	20.0	19.6	92	98
105J_1989_3386	0	5.8	8	70.6	1.2	1.1	0.08	2.9	9.0	0.012	0.37	6.0	10.0	9.6	62	108
105J_1989_3387	0	6.6	6	79.9	0.9	0.9	0.12	3.3	11.0	0.014	0.31	5.3	9.4	8.6	82	102
105J_1989_3388	0	6.3	9	66.4	1.0	0.9	0.08	3.5	11.0	0.018	0.34	4.3	8.4	7.7	69	124
105J_1989_3389	0	4.8	6	40.2	1.0	0.6	0.06	2.8	8.9	0.023	0.27	4.3	7.4	6.5	42	78
105J_1989_3390	0	2.3	<1	21.9	<0.5	0.6	<0.02	0.7	0.5	0.002	0.08	6.0	5.9	5.6	41	18
105J_1989_3391	0	3.3	7	70.9	<0.5	0.7	0.07	0.6	5.8	0.010	0.45	19.3	23.1	23.0	170	202
105J_1989_3392	0	1.7	1	23.3	<0.5	<0.5	0.03	1.9	2.2	0.004	0.10	1.7	1.6	1.7	54	62
105J_1989_3393	0	6.5	3	16.5	<0.5	1.7	0.05	1.5	2.1	0.004	7.15	20.8	20.3	22.7	37	35

Unique ID	Rep Stat	W ICP-MS ppm 0.1	W INAA ppm 1	wt INAA g 0.01	Yb INAA ppm 2	Zn AAS ppm 2	Zn ICP-MS ppm 0.1
105J_1989_3378	0	0.1	<1	21.14	2	292	283.6
105J_1989_3379	0	0.3	2	30.91	2	265	264.8
105J_1989_3380	0	0.1	<1	24.51	3	1150	1068.0
105J_1989_3382	1	0.5	1	15.59	<2	317	339.9
105J_1989_3383	2	0.2	<1	32.10	2	344	361.5
105J_1989_3384	0	0.2	2	34.96	3	714	673.6
105J_1989_3385	0	0.2	<1	25.37	<2	517	485.5
105J_1989_3386	0	0.6	2	38.82	2	787	726.3
105J_1989_3387	0	2.9	3	40.04	3	567	540.4
105J_1989_3388	0	1.5	2	43.10	3	505	506.0
105J_1989_3389	0	0.5	2	39.54	<2	258	267.1
105J_1989_3390	0	<0.1	<1	23.98	2	803	741.5
105J_1989_3391	0	<0.1	<1	12.09	<2	1180	1027.5
105J_1989_3392	0	0.1	<1	15.11	<2	48	49.5
105J_1989_3393	0	<0.1	<1	14.96	3	5060	4800.9