



REGIONAL DRAINAGE SEDIMENT AND WATER GEOCHEMICAL DATA

SOUTH NECHAKO BASIN & CARIBOO BASIN, CENTRAL BRITISH COLUMBIA

*** APPENDIX B – SUMMARY STATISTICS ***

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Notes:

- Calculations ignore missing values and analytical results from the second (STA=20) of paired field duplicate samples.
- Data reported by the labs at less than detection limit is set at half the detection limit.
- Geological sub-divisions were determined from Massey *et. al.*, 2005.

Summary Statistics

Variable	D R A I N A G E S E D I M E N T																	
	Al	Sb	As	Ba	Bi	Cd	Ca	Cr	Co	Cu	Ga	Au	Fe	La	Pb	Mg	Mn	Hg
Units	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppb	%	ppm	ppm	%	ppm	ppb
D.L.	0.01	0.02	0.1	0.5	0.02	0.01	0.01	0.5	0.1	0.01	0.1	0.2	0.01	0.5	0.01	0.01	1	5
Anal Mth	ICPMS	ICPMS	ICPMS	ICPMS	ICPMS	ICPMS	ICPMS	ICPMS	ICPMS	ICPMS	ICPMS	ICPMS	ICPMS	ICPMS	ICPMS	ICPMS	ICPMS	ICPMS
N	1370	1370	1370	1370	1370	1370	1370	1370	1370	1370	1370	1370	1370	1370	1370	1370	1370	1370
N > DL	1370	1370	1309	1370	679	1359	1370	1370	1370	1370	1323	854	1370	1125	1370	1370	1370	1276
Missing	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mean	0.47	0.45	2.39	80.89	0.03	0.16	7.64	18.25	6.48	17.24	1.42	0.55	1.29	2.49	1.96	2.43	579.7	26.55
Median	0.28	0.36	1.50	71.70	0.02	0.11	6.13	11.00	5.30	12.86	0.80	0.40	0.99	1.50	1.51	0.80	403.0	22.00
Mode	0.10	0.25	0.60	35.10	0.02	0.07	1.00	4.20	2.80	6.35	0.30	0.10	0.51	0.25	1.05	0.39	170.0	2.50
Range	3.32	8.89	46.45	520.9	0.28	1.285	31.12	917.10	66.7	85.75	35.45	12.1	11.31	20.05	18.90	19.33	5593	190.5
St Dev	0.51	0.45	3.26	47.05	0.03	0.14	6.60	32.34	4.85	13.40	1.74	0.70	1.12	2.63	1.53	3.33	579.60	20.54
Coef Var	1.085	0.990	1.367	0.582	0.799	0.886	0.863	1.773	0.749	0.777	1.222	1.276	0.868	1.054	0.782	1.366	1.000	0.774
Log Mean	-0.550	-0.437	0.137	1.835	-1.596	-0.921	0.647	1.064	0.704	1.112	-0.065	-0.467	-0.021	0.170	0.199	0.052	2.598	1.299
Geo Mean	0.28	0.37	1.37	68.36	0.03	0.12	4.44	11.58	5.06	12.94	0.86	0.34	0.95	1.48	1.58	1.13	395.9	19.91
Log StDv	0.452	0.260	0.496	0.262	0.304	0.336	0.516	0.395	0.319	0.338	0.442	0.422	0.348	0.465	0.274	0.523	0.384	0.353
Log CVar	-0.823	-0.597	3.619	0.143	-0.190	-0.366	0.797	0.371	0.454	0.305	-6.804	-0.905	-16.594	2.733	1.376	10.055	0.148	0.272
Percntls																		
Minimum	0.02	0.04	0.05	8.6	0.01	0.005	0.26	0.70	0.2	0.73	0.05	0.1	0.03	0.25	0.27	0.12	16	2.5
10th	0.07	0.18	0.40	31.0	0.01	0.050	0.79	3.80	2.0	4.79	0.20	0.1	0.33	0.25	0.72	0.29	127	7.0
20th	0.11	0.22	0.60	40.2	0.01	0.060	1.15	5.20	2.8	6.42	0.30	0.1	0.49	0.60	0.92	0.39	180	11.0
30th	0.15	0.27	0.90	50.6	0.02	0.080	1.83	6.90	3.5	8.34	0.50	0.2	0.64	0.80	1.10	0.48	234	14.0
40th	0.21	0.31	1.10	60.8	0.02	0.100	4.08	8.90	4.3	10.37	0.60	0.3	0.80	1.10	1.31	0.63	319	18.0
50th	0.28	0.36	1.50	71.7	0.02	0.110	6.13	11.00	5.3	12.86	0.80	0.4	0.99	1.50	1.51	0.80	403	22.0
60th	0.37	0.42	2.00	85.2	0.03	0.140	8.39	14.00	6.4	16.06	1.10	0.5	1.21	2.10	1.79	1.12	508	26.0
70th	0.50	0.48	2.60	99.8	0.04	0.180	11.18	18.40	7.6	20.48	1.50	0.6	1.46	2.80	2.12	2.16	645	31.0
80th	0.74	0.58	3.30	117.8	0.05	0.240	13.56	26.90	9.5	26.70	2.20	0.8	1.88	4.10	2.64	4.26	825	40.0
85th	0.97	0.65	3.90	126.5	0.06	0.280	15.52	32.00	10.7	30.92	2.80	0.9	2.16	5.00	3.08	5.88	999	44.0
90th	1.20	0.75	5.00	140.5	0.06	0.330	17.49	38.50	12.5	37.41	3.50	1.2	2.53	6.10	3.87	7.74	1250	52.0
95th	1.60	0.97	7.00	166.7	0.08	0.430	20.00	49.80	15.2	45.55	4.70	1.6	3.18	8.00	4.75	10.15	1684	65.0
98th	2.05	1.36	10.80	198.4	0.10	0.600	22.67	67.60	18.8	52.83	5.70	2.2	4.75	9.80	6.19	12.66	2381	82.0
99th	2.36	1.65	15.30	213.9	0.12	0.700	24.17	93.30	23.1	59.27	6.70	2.7	5.72	11.00	6.76	14.37	2671	92.0
Maximum	3.34	8.93	46.50	529.5	0.29	1.290	31.38	917.80	66.9	86.48	35.50	12.2	11.34	20.30	19.17	19.45	5609	193.0

Summary Statistics

Variable	D R A I N A G E S E D I M E N T																	
	Mo	Ni	P	K	Sc	Se	Ag	Na	Sr	S	Te	Tl	Th	Ti	W	U	V	Zn
Units	ppm	ppm	%	%	ppm	ppm	ppb	%	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
D.L.	0.01	0.1	0.001	0.01	0.1	0.1	2	0.001	0.5	0.01	0.02	0.02	0.1	0.001	0.1	0.1	2	0.1
Anal Mth	ICPMS	ICPMS	ICPMS	ICPMS	ICPMS	ICPMS	ICPMS	ICPMS	ICPMS	ICPMS	ICPMS	ICPMS	ICPMS	ICPMS	ICPMS	ICPMS	ICPMS	ICPMS
N	1370	1370	1370	1370	1370	1370	1370	1370	1370	1370	1370	1370	1370	1370	1370	1370	1370	1370
N > DL	1370	1369	1370	1335	1359	1342	1369	1370	1370	1367	468	758	647	1364	241	1364	1357	1370
Missing	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mean	4.34	25.71	0.10	0.09	1.54	1.29	41.1	0.32	293.92	0.56	0.03	0.04	0.30	0.03	0.12	3.76	30.7	43.87
Median	3.30	20.40	0.07	0.05	0.90	0.90	28.0	0.07	161.70	0.40	0.02	0.03	0.10	0.02	0.05	2.40	25.0	32.50
Mode	2.23	16.00	0.09	0.03	0.60	0.70	22.0	0.03	40.30	0.24	0.01	0.01	0.10	0.00	0.05	0.50	16.0	21.80
Range	40.31	456.0	1.047	1.12	10.15	26.85	479	9.990	4878.4	8.555	0.29	0.31	4.75	0.989	4.95	71.35	259	239.6
St Dev	3.88	24.02	0.13	0.11	1.59	1.73	40.43	0.73	367.92	0.53	0.02	0.03	0.41	0.06	0.26	4.58	21.82	37.27
Coef Var	0.895	0.934	1.377	1.283	1.027	1.338	0.984	2.311	1.252	0.948	0.947	0.860	1.354	1.901	2.194	1.220	0.712	0.849
Log Mean	0.520	1.291	-1.136	-1.258	0.005	-0.048	1.476	-1.017	2.216	-0.398	-1.721	-1.545	-0.773	-1.742	-1.133	0.364	1.378	1.508
Geo Mean	3.31	19.53	0.07	0.06	1.01	0.90	29.9	0.10	164.26	0.40	0.02	0.03	0.17	0.02	0.07	2.31	23.9	32.24
Log StDv	0.319	0.333	0.273	0.388	0.397	0.353	0.337	0.598	0.476	0.365	0.312	0.331	0.443	0.434	0.319	0.440	0.331	0.345
Log CVar	0.615	0.258	-0.240	-0.308	99.290	-7.514	0.228	-0.588	0.215	-0.920	-0.181	-0.214	-0.573	-0.249	-0.282	1.213	0.240	0.229
Percentls																		
Minimum	0.19	0.1	0.006	0.01	0.05	0.05	1	0.010	11.7	0.005	0.01	0.01	0.05	0.001	0.05	0.05	1	2.0
10th	1.35	7.1	0.036	0.02	0.30	0.40	12	0.022	41.2	0.140	0.01	0.01	0.05	0.005	0.05	0.60	9	11.7
20th	1.95	10.7	0.046	0.03	0.50	0.50	16	0.031	55.8	0.210	0.01	0.01	0.05	0.008	0.05	1.00	13	16.1
30th	2.37	14.0	0.056	0.03	0.60	0.60	20	0.040	74.6	0.270	0.01	0.02	0.10	0.011	0.05	1.40	17	20.6
40th	2.82	17.1	0.065	0.04	0.70	0.70	23	0.050	104.7	0.320	0.01	0.02	0.10	0.014	0.05	1.90	21	26.1
50th	3.30	20.4	0.073	0.05	0.90	0.90	28	0.065	161.7	0.400	0.02	0.03	0.10	0.019	0.05	2.40	25	32.5
60th	3.95	24.3	0.083	0.06	1.20	1.00	34	0.091	239.2	0.480	0.02	0.03	0.20	0.024	0.05	3.10	30	39.7
70th	4.76	29.4	0.092	0.08	1.60	1.20	43	0.156	334.6	0.610	0.03	0.04	0.30	0.031	0.05	4.10	38	49.0
80th	5.95	37.3	0.106	0.11	2.30	1.60	60	0.308	474.8	0.810	0.04	0.06	0.40	0.044	0.10	5.50	45	63.3
85th	6.67	42.2	0.114	0.15	3.00	1.90	71	0.502	569.1	0.980	0.05	0.07	0.60	0.053	0.20	6.70	52	75.2
90th	7.91	48.8	0.127	0.21	3.90	2.40	84	0.888	693.2	1.210	0.06	0.08	0.80	0.068	0.20	8.00	58	93.0
95th	10.45	59.4	0.154	0.31	5.00	3.50	114	1.706	935.4	1.510	0.07	0.10	1.10	0.088	0.40	11.10	71	124.7
98th	16.77	72.5	0.494	0.44	6.30	5.90	149	2.815	1303.3	2.070	0.09	0.14	1.60	0.108	0.60	16.90	90	160.6
99th	20.19	91.2	0.990	0.60	7.30	7.70	190	3.358	1540.6	2.330	0.11	0.17	2.00	0.120	0.80	21.70	97	183.7
Maximum	40.50	456.1	1.053	1.13	10.20	26.90	480	10.000	4890.1	8.560	0.30	0.32	4.80	0.990	5.00	71.40	260	241.6

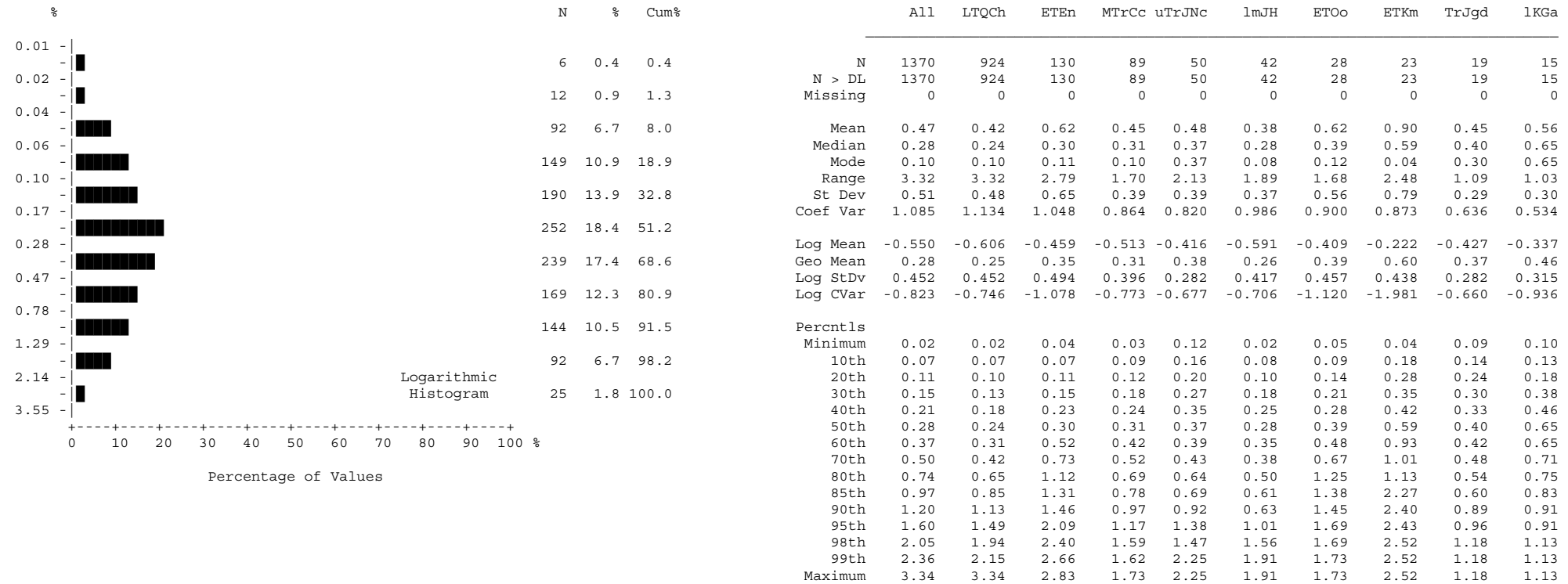
Summary Statistics

Variable	D R A I N A G E S E D I M E N T																	
	Sb	As	Ba	Br	Ce	Cs	Cr	Co	Eu	Au	Hf	Fe	La	Lu	Mo	Rb	Sm	Sc
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
D.L.	0.1	0.5	50	0.5	5	0.5	20	5	1	2	1	0.2	2	0.2	1	5	0.1	0.2
Anal Mth	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA
N	1370	1370	1370	1370	1370	1370	1370	1370	1370	1370	1370	1370	1370	1370	1370	1370	1370	1370
N > DL	1358	1367	1284	1370	780	324	668	909	32	159	260	1345	749	63	1258	515	1039	1361
Missing	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mean	0.62	4.47	185.2	66.76	10.16	0.46	35.4	8.70	0.56	1.4	0.96	1.91	4.6	0.11	5.88	8.3	0.95	4.27
Median	0.50	3.60	140.0	59.80	7.00	0.25	10.0	7.00	0.50	1.0	0.50	1.50	3.0	0.10	5.00	3.0	0.60	2.60
Mode	0.40	2.50	25.0	48.00	2.50	0.25	10.0	2.50	0.50	1.0	0.50	0.80	1.0	0.10	3.00	3.0	0.05	0.60
Range	9.95	49.75	1375	247.3	60.5	4.85	1090	85.5	1.5	14	5.5	14.9	33	0.5	55.5	107	5.75	25.1
St Dev	0.61	3.88	145.14	41.04	10.00	0.45	50.54	6.51	0.25	1.09	0.91	1.56	4.72	0.05	5.27	9.81	1.06	4.26
Coef Var	0.981	0.868	0.784	0.615	0.984	0.987	1.428	0.749	0.443	0.790	0.952	0.815	1.033	0.473	0.898	1.188	1.108	0.997
Log Mean	-0.286	0.552	2.154	1.725	0.821	-0.451	1.341	0.827	-0.272	0.080	-0.136	0.156	0.452	-0.965	0.635	0.732	-0.353	0.419
Geo Mean	0.52	3.57	142.4	53.10	6.62	0.35	21.9	6.72	0.53	1.2	0.73	1.43	2.8	0.11	4.32	5.4	0.44	2.63
Log StDv	0.237	0.283	0.323	0.327	0.401	0.268	0.393	0.321	0.110	0.192	0.282	0.344	0.425	0.122	0.358	0.360	0.610	0.450
Log CVar	-0.827	0.512	0.150	0.190	0.489	-0.594	0.293	0.388	-0.405	2.404	-2.086	2.220	0.942	-0.126	0.565	0.493	-1.729	1.074
Percntls																		
Minimum	0.05	0.25	25	1.7	2.5	0.25	10	2.5	0.5	1	0.5	0.1	1	0.1	0.5	3	0.05	0.1
10th	0.30	1.60	62	19.0	2.5	0.25	10	2.5	0.5	1	0.5	0.5	1	0.1	2.0	3	0.05	0.7
20th	0.30	2.10	83	31.0	2.5	0.25	10	2.5	0.5	1	0.5	0.8	1	0.1	3.0	3	0.05	1.0
30th	0.40	2.50	100	41.0	2.5	0.25	10	5.0	0.5	1	0.5	1.0	1	0.1	3.0	3	0.20	1.5
40th	0.50	3.00	120	51.0	2.5	0.25	10	6.0	0.5	1	0.5	1.2	2	0.1	4.0	3	0.40	1.9
50th	0.50	3.60	140	59.8	7.0	0.25	10	7.0	0.5	1	0.5	1.5	3	0.1	5.0	3	0.60	2.6
60th	0.60	4.20	170	70.2	9.0	0.25	27	9.0	0.5	1	0.5	1.8	4	0.1	5.0	3	0.80	3.6
70th	0.60	4.90	200	84.0	12.0	0.25	37	11.0	0.5	1	0.5	2.2	5	0.1	7.0	8	1.10	4.8
80th	0.80	6.00	260	98.6	16.0	0.60	53	13.0	0.5	1	1.0	2.9	7	0.1	8.0	13	1.70	7.0
85th	0.80	6.70	310	108.0	20.0	0.80	66	15.0	0.5	2	2.0	3.3	9	0.1	10.0	16	2.10	8.8
90th	1.00	7.90	370	121.0	25.0	1.00	84	17.0	0.5	3	2.0	3.8	12	0.1	11.0	20	2.60	11.0
95th	1.20	10.00	490	144.0	31.0	1.40	120	21.0	1.0	4	3.0	4.6	14	0.2	14.0	29	3.20	14.0
98th	1.60	15.00	600	168.0	38.0	1.90	150	25.0	2.0	4	4.0	6.5	18	0.3	20.0	39	3.90	16.0
99th	2.00	20.00	670	195.0	43.0	2.30	180	28.0	2.0	5	4.0	7.7	20	0.4	27.0	44	4.40	18.0
Maximum	10.00	50.00	1400	249.0	63.0	5.10	1100	88.0	2.0	15	6.0	15.0	34	0.6	56.0	110	5.80	25.2

Summary Statistics

Variable	D R A I N A G E S E D I M E N T							F	LOI	W A T E R		
	Na	Ta	Tb	Th	W	U	Yb			FW	CND	PH
Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppb	uS	
D.L.	0.02	0.5	0.5	0.2	1	0.2	2	10	0.1	20	1	0.1
Anal Mth	INAA	INAA	INAA	INAA	INAA	INAA	INAA	ION	GRAV	ION	ISE	ISE
N	1370	1370	1370	1370	1370	1370	1370	1370	1370	1370	1370	1370
N > DL	1370	128	35	1067	23	1350	26	1349	1370	1365	1370	1370
Missing	0	0	0	0	0	0	0	0	0	0	0	0
Mean	0.78	0.30	0.27	0.88	0.55	4.14	1.06	286.1	46.29	281.4	1662.3	8.91
Median	0.42	0.25	0.25	0.60	0.50	2.60	1.00	230.0	44.10	190.0	511.0	8.80
Mode	1.00	0.25	0.25	0.10	0.50	2.10	1.00	40.0	37.80	150.0	191.0	8.80
Range	10.55	1.95	0.55	9.1	5.5	85.3	3.0	1815	86.5	15990	19980	4.6
St Dev	0.97	0.16	0.07	0.95	0.28	5.02	0.32	223.22	17.92	708.17	3631.97	0.71
Coef Var	1.252	0.545	0.275	1.078	0.518	1.210	0.303	0.780	0.387	2.517	2.185	0.079
Log Mean	-0.328	-0.553	-0.585	-0.277	-0.279	0.421	0.017	2.291	1.629	2.265	2.798	0.949
Geo Mean	0.47	0.28	0.26	0.53	0.53	2.64	1.04	195.4	42.54	183.9	628.3	8.88
Log StDv	0.425	0.144	0.078	0.459	0.101	0.425	0.081	0.430	0.188	0.336	0.522	0.035
Log CVar	-1.299	-0.260	-0.133	-1.662	-0.361	1.009	5.036	0.188	0.116	0.148	0.187	0.037
Percentls												
Minimum	0.05	0.25	0.25	0.1	0.5	0.1	1.0	5	5.1	10	20	6.5
10th	0.13	0.25	0.25	0.1	0.5	0.8	1.0	50	24.4	70	176	8.1
20th	0.19	0.25	0.25	0.2	0.5	1.2	1.0	80	31.3	100	249	8.4
30th	0.26	0.25	0.25	0.3	0.5	1.6	1.0	130	35.8	140	334	8.6
40th	0.33	0.25	0.25	0.4	0.5	2.1	1.0	180	39.7	160	409	8.7
50th	0.42	0.25	0.25	0.6	0.5	2.6	1.0	230	44.1	190	511	8.8
60th	0.55	0.25	0.25	0.7	0.5	3.4	1.0	290	48.5	220	670	9.0
70th	0.80	0.25	0.25	1.0	0.5	4.5	1.0	370	54.3	250	892	9.2
80th	1.20	0.25	0.25	1.4	0.5	6.0	1.0	480	62.1	310	1288	9.5
85th	1.50	0.25	0.25	1.7	0.5	7.1	1.0	530	67.2	346	1846	9.7
90th	1.70	0.50	0.25	2.1	0.5	8.7	1.0	600	73.2	420	3212	9.9
95th	2.50	0.70	0.25	2.8	1.0	12.0	1.0	710	79.5	550	9140	10.2
98th	3.95	0.80	0.60	3.6	1.0	18.0	2.0	840	84.7	1210	20000	10.4
99th	4.61	0.90	0.70	4.3	2.0	24.4	3.0	910	88.3	1740	20000	10.6
Maximum	10.60	2.20	0.80	9.2	6.0	85.4	4.0	1820	91.6	16000	20000	11.1

Summary Statistics

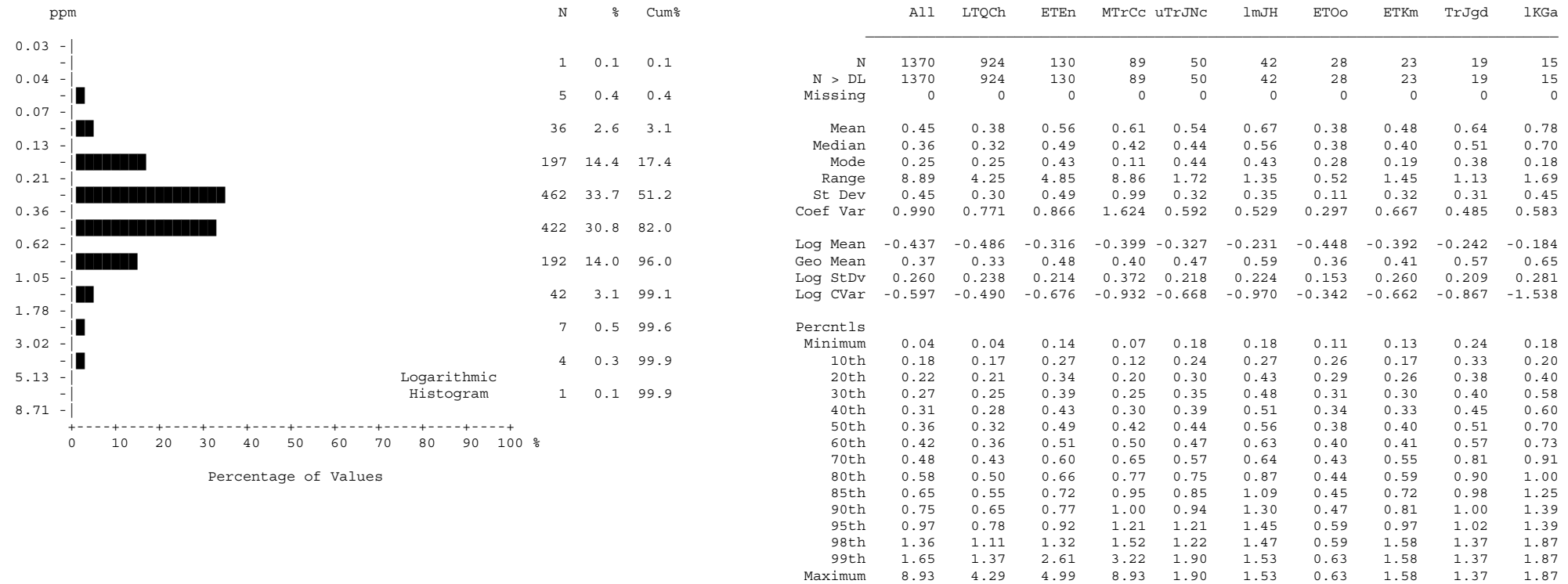


Aluminum (Al)
Sediment

number of values : 1370
 units : %
 detection limit : 0.01
 analytical method : ICPMS

Aluminum by ICPMS

Summary Statistics

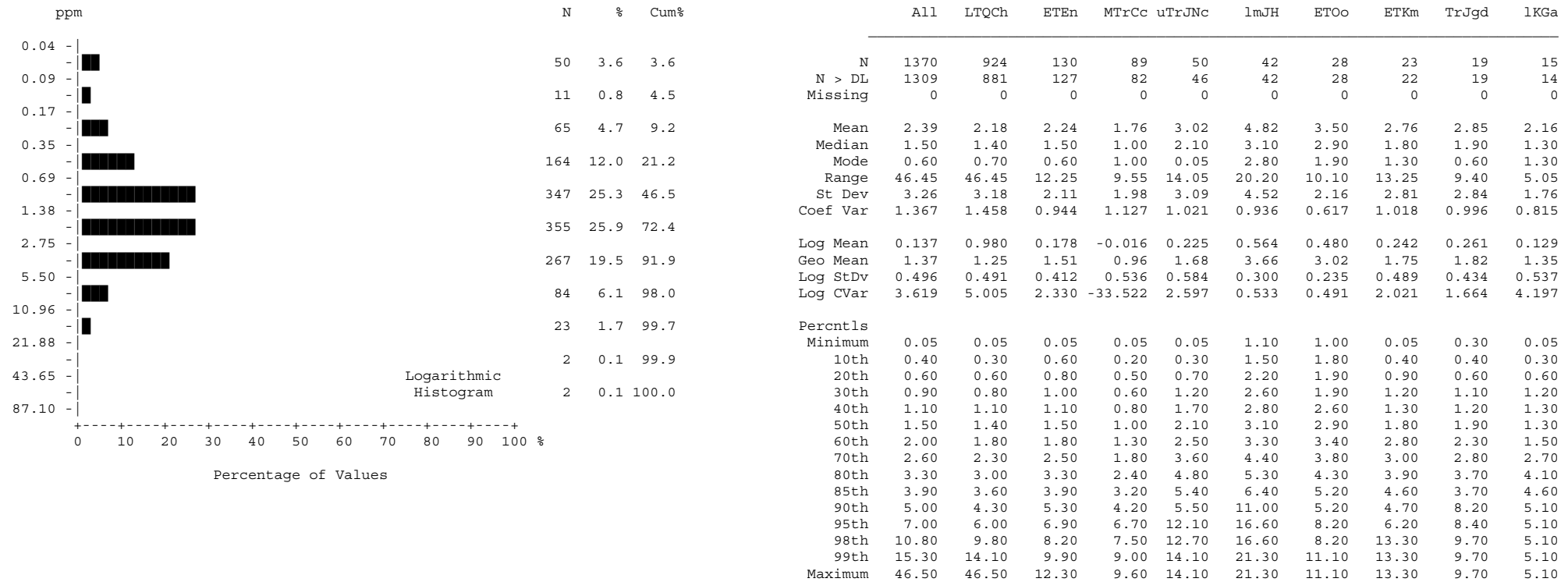


Antimony (Sb)
Sediment

number of values : 1370
 units : ppm
 detection limit : 0.02
 analytical method : ICPMS

Antimony by ICPMS

Summary Statistics

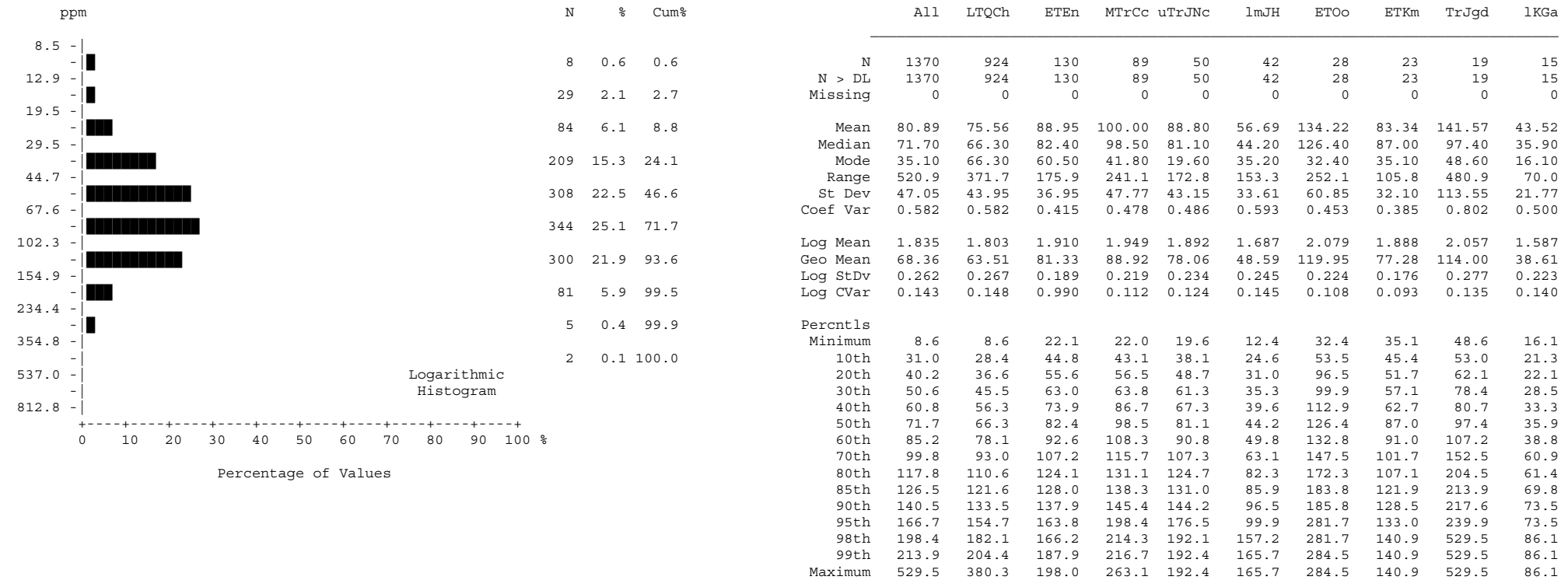


Arsenic (As) Sediment

number of values : 1370
 units : ppm
 detection limit : 0.1
 analytical method : ICPMS

Arsenic by ICPMS

Summary Statistics

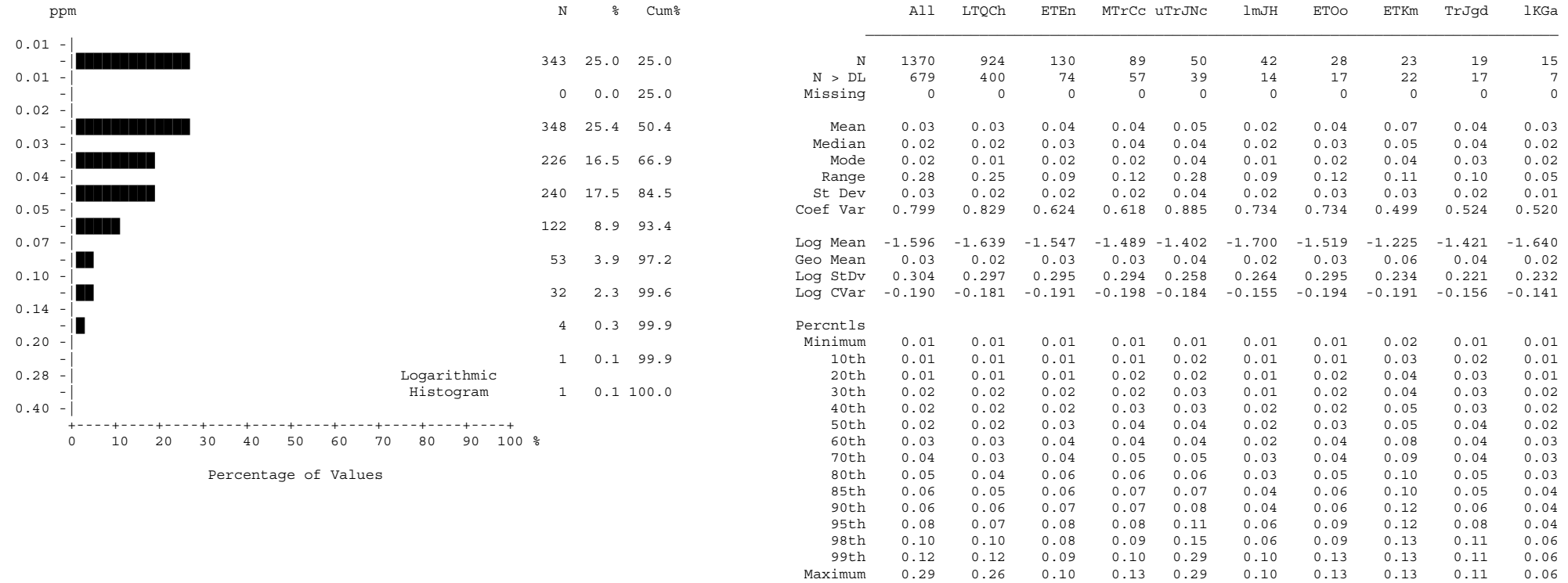


Barium (Ba)
Sediment

number of values : 1370
 units : ppm
 detection limit : 0.5
 analytical method : ICPMS

Barium by ICPMS

Summary Statistics

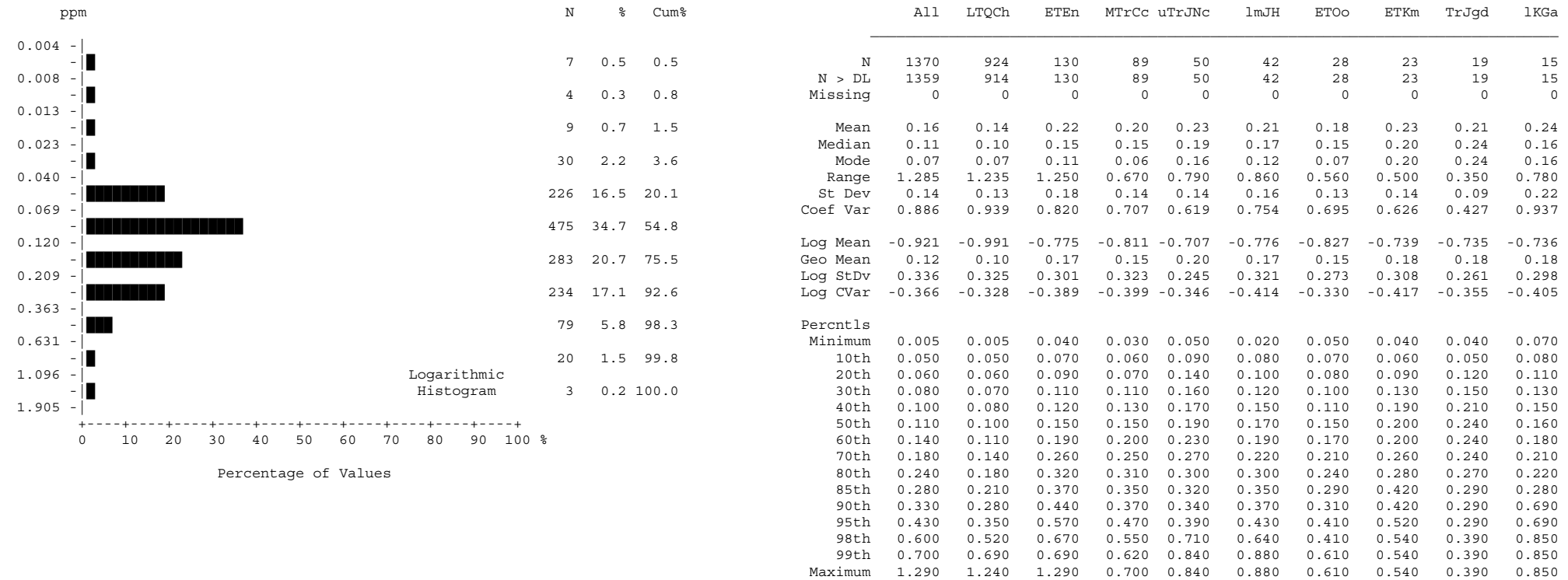


Bismuth (Bi) Sediment

number of values : 1370
 units : ppm
 detection limit : 0.02
 analytical method : ICPMS

Bismuth by ICPMS

Summary Statistics

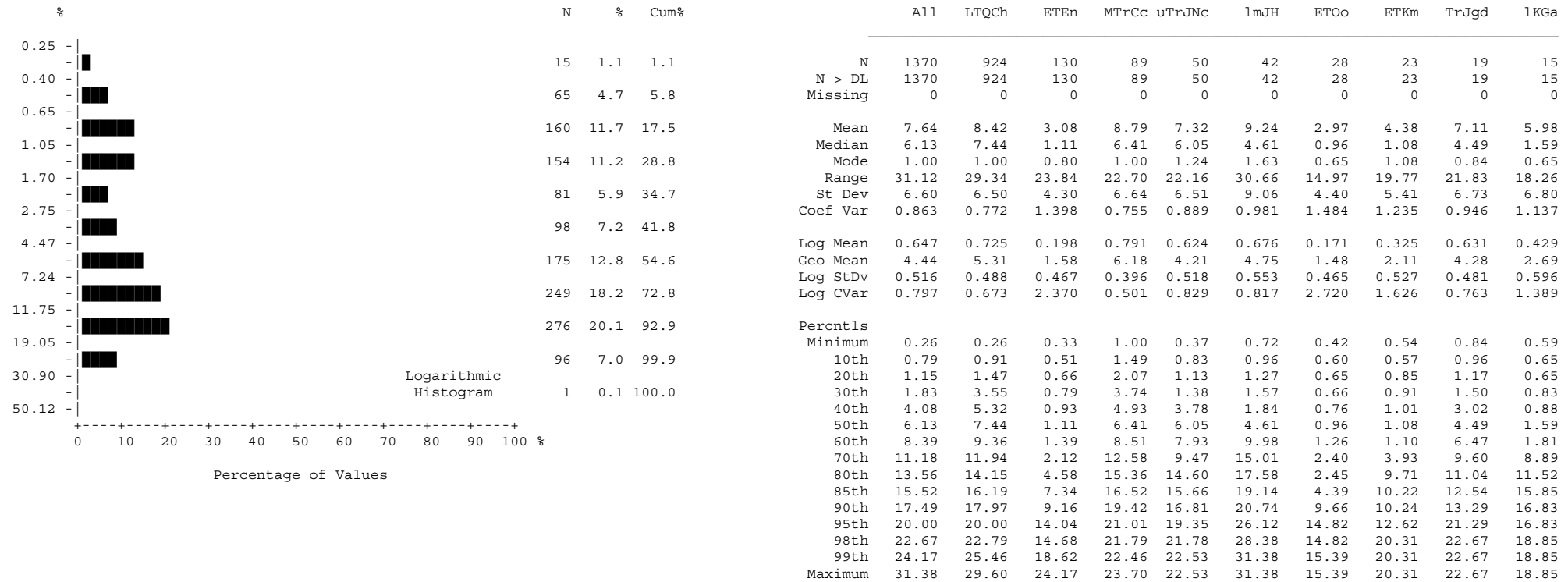


Cadmium (Cd)
Sediment

number of values : 1370
 units : ppm
 detection limit : 0.01
 analytical method : ICPMS

Cadmium by ICPMS

Summary Statistics

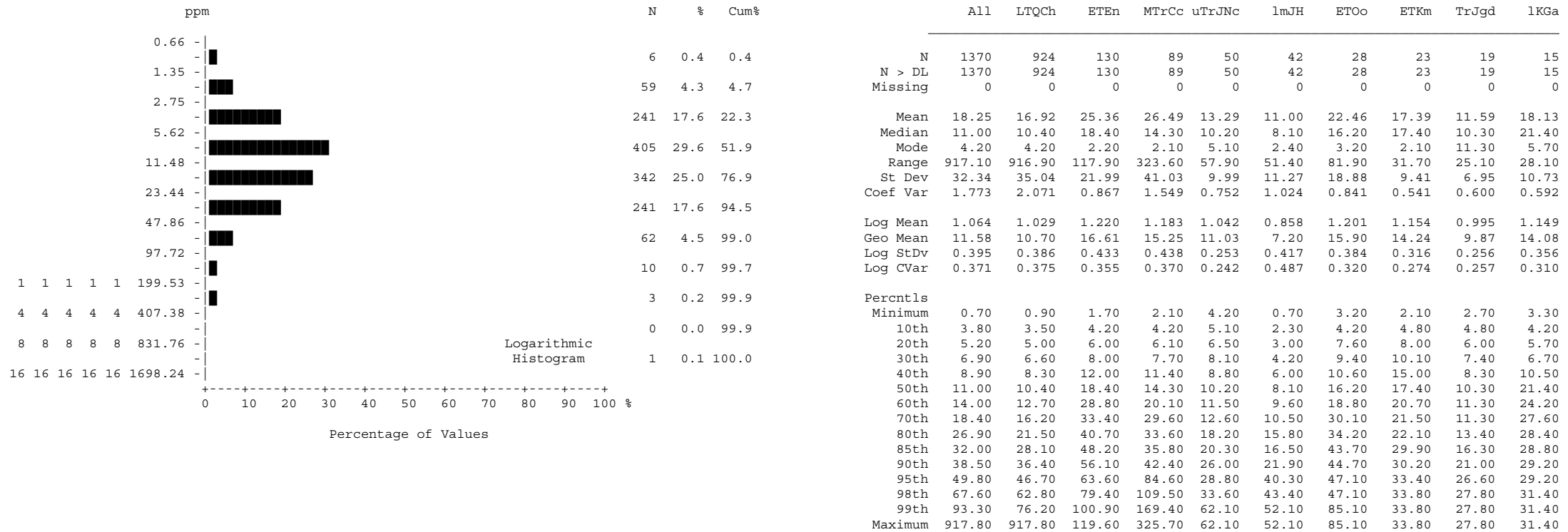


Calcium (Ca) Sediment

number of values : 1370
 units : %
 detection limit : 0.01
 analytical method : ICPMS

Calcium by ICPMS

Summary Statistics

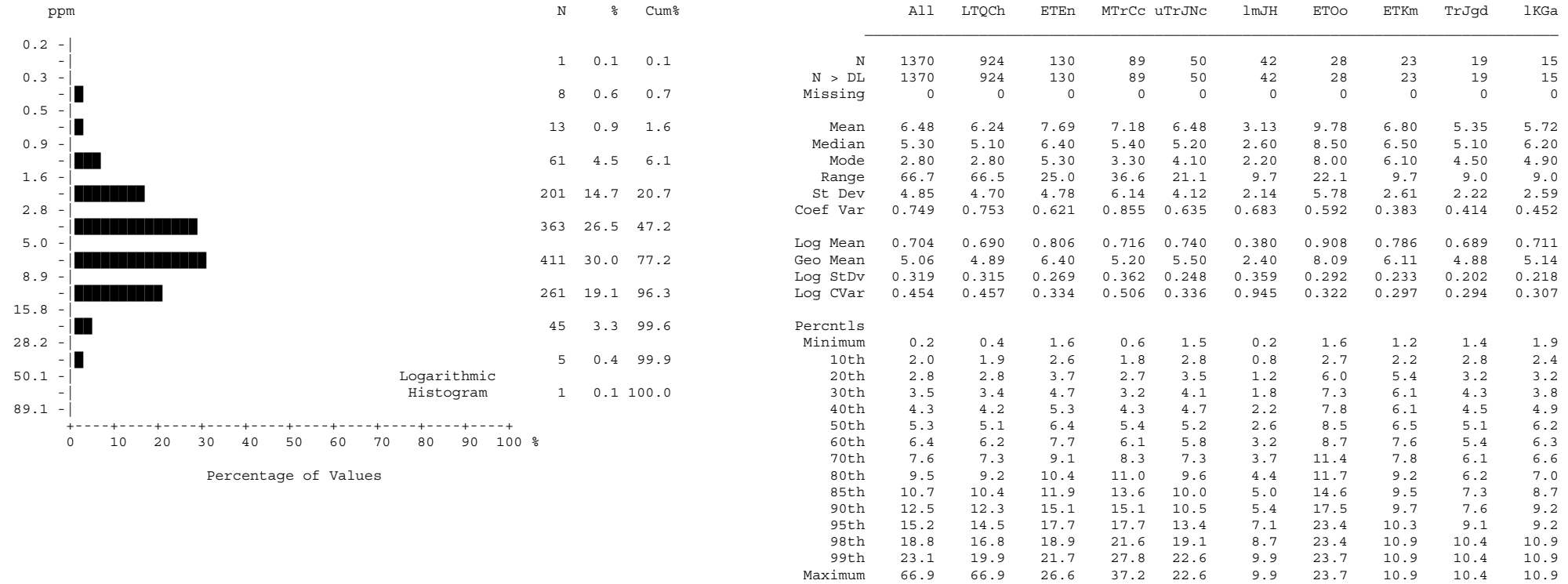


Chromium (Cr) Sediment

number of values : 1370
 units : ppm
 detection limit : 0.5
 analytical method : ICPMS

Chromium by ICPMS

Summary Statistics

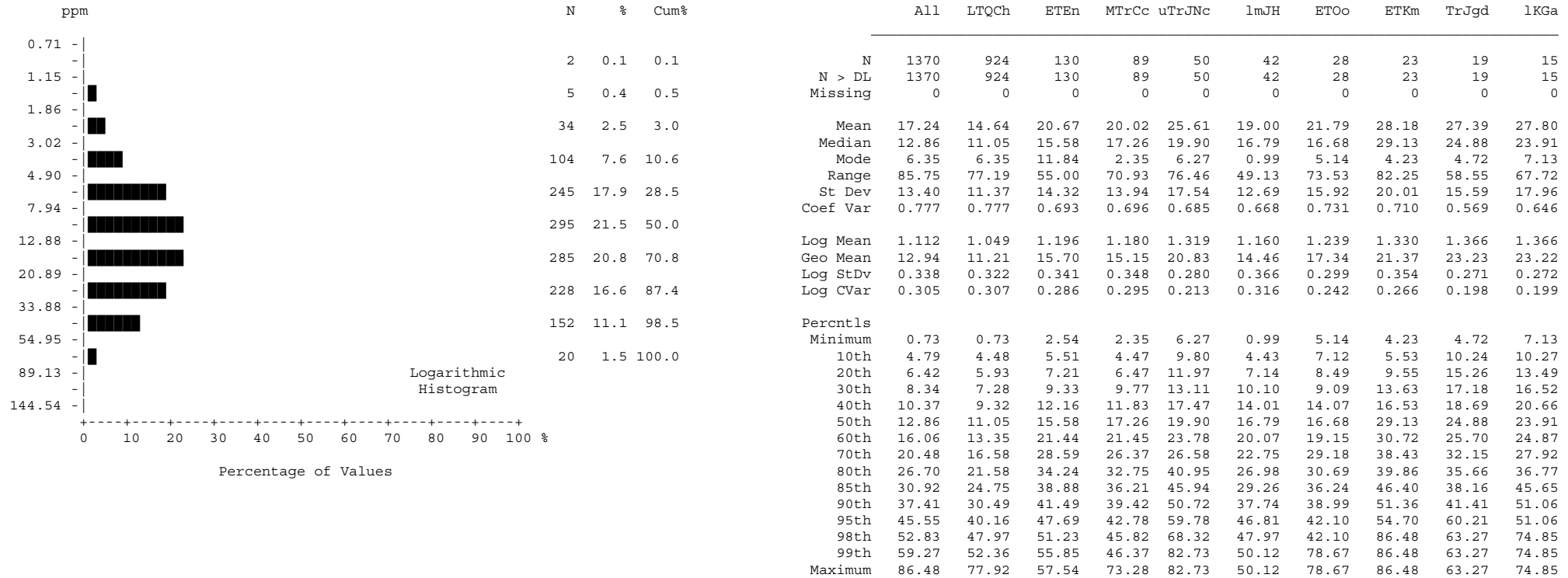


Cobalt (Co)
Sediment

number of values : 1370
 units : ppm
 detection limit : 0.1
 analytical method : ICPMS

Cobalt by ICPMS

Summary Statistics

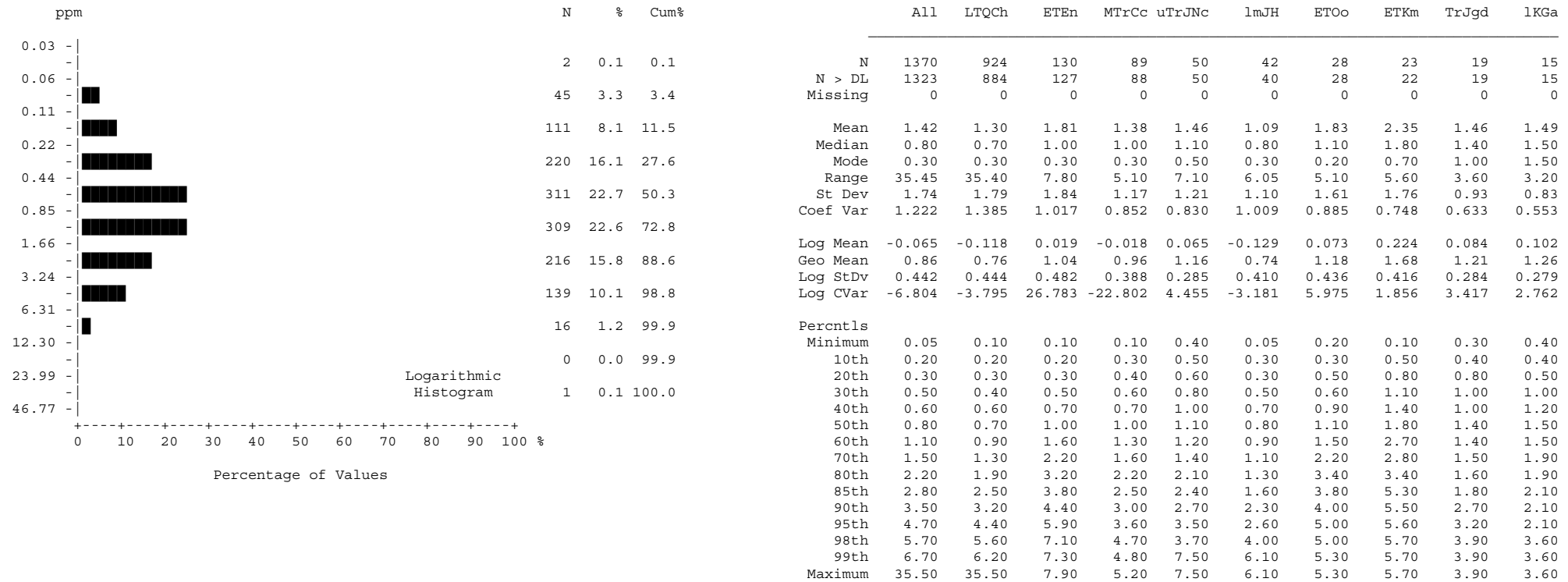


Copper (Cu) Sediment

number of values : 1370
 units : ppm
 detection limit : 0.01
 analytical method : ICPMS

Copper by ICPMS

Summary Statistics

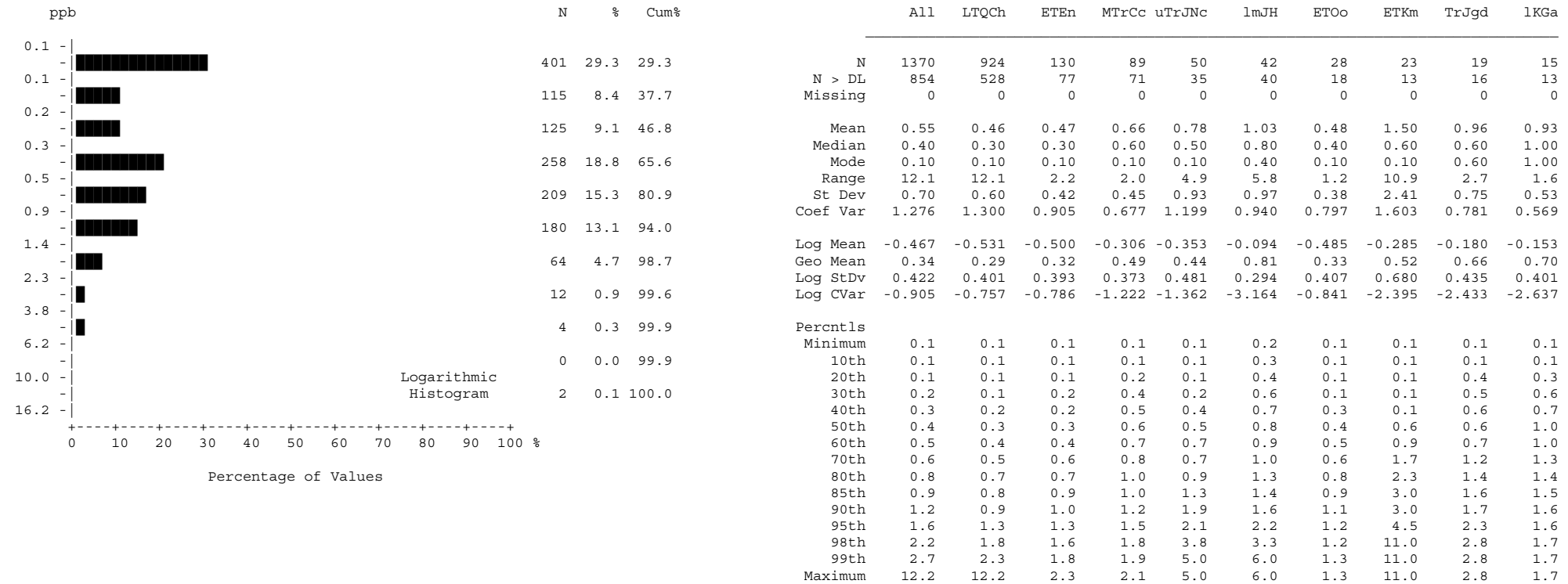


Gallium (Ga) Sediment

number of values : 1370
 units : ppm
 detection limit : 0.1
 analytical method : ICPMS

Gallium by ICPMS

Summary Statistics

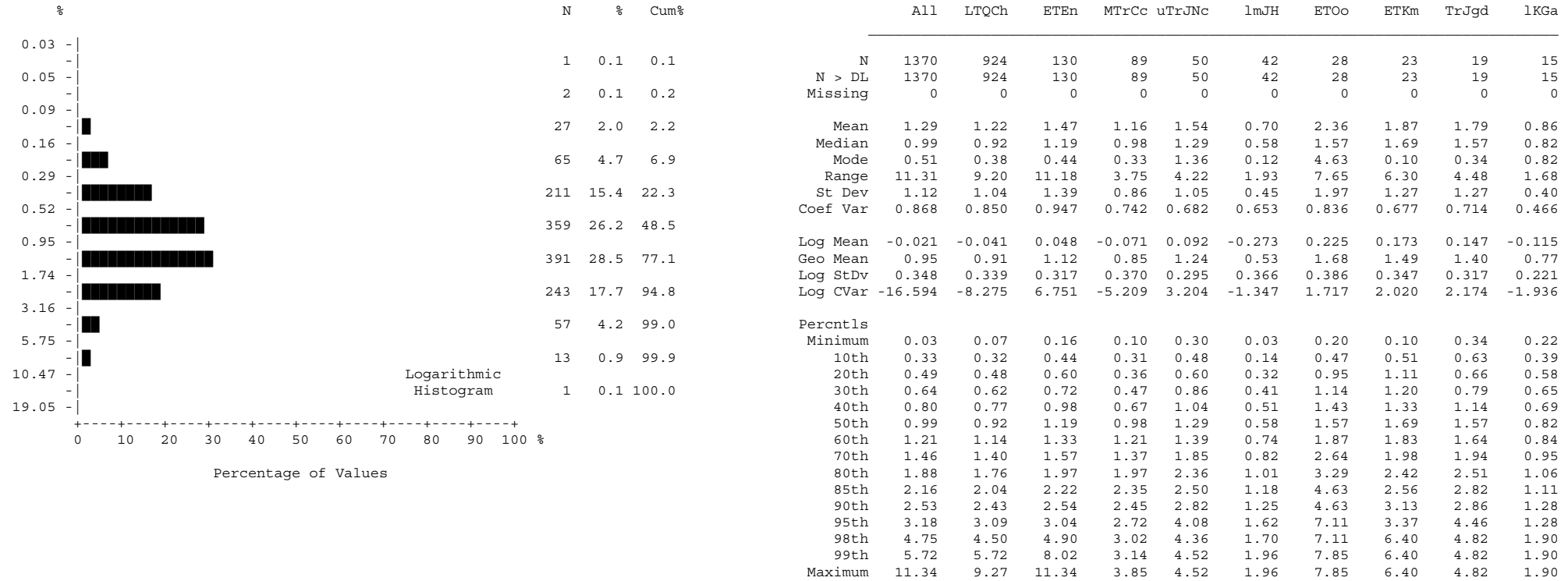


Gold (Au) Sediment

number of values : 1370
 units : ppb
 detection limit : 0.2
 analytical method : ICPMS

Gold by ICPMS

Summary Statistics

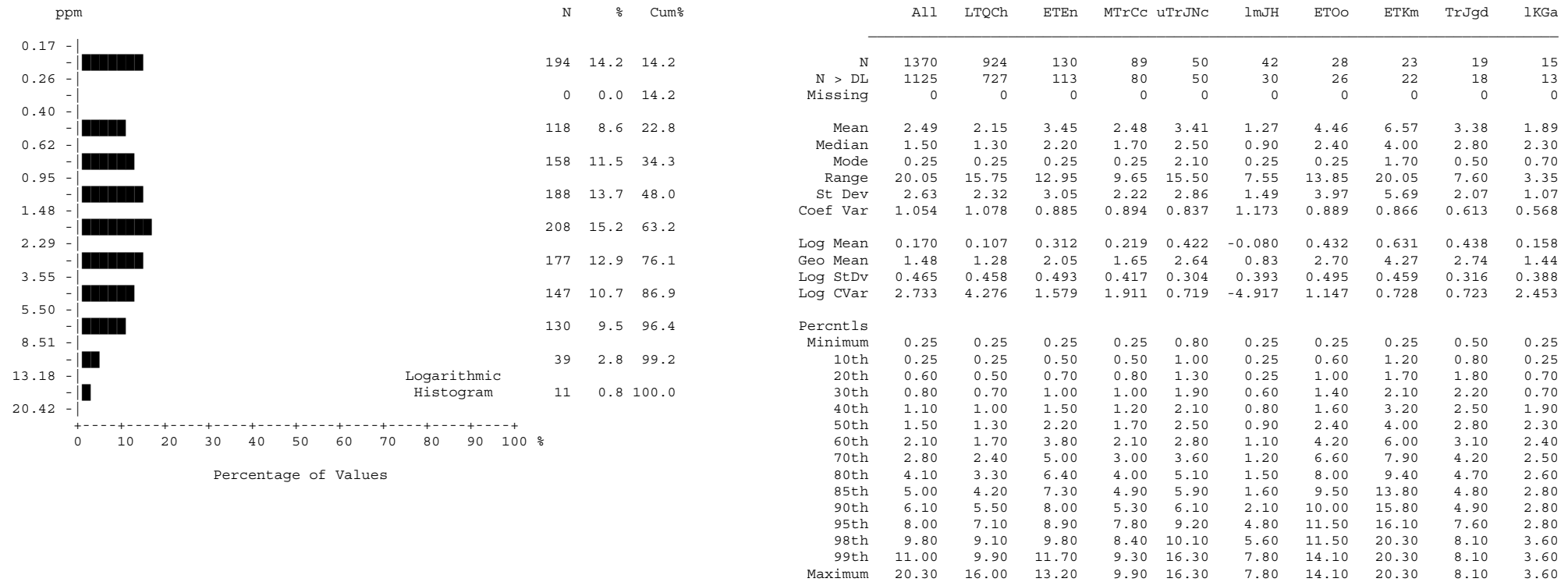


Iron (Fe)
Sediment

number of values : 1370
 units : %
 detection limit : 0.01
 analytical method : ICPMS

Iron by ICPMS

Summary Statistics

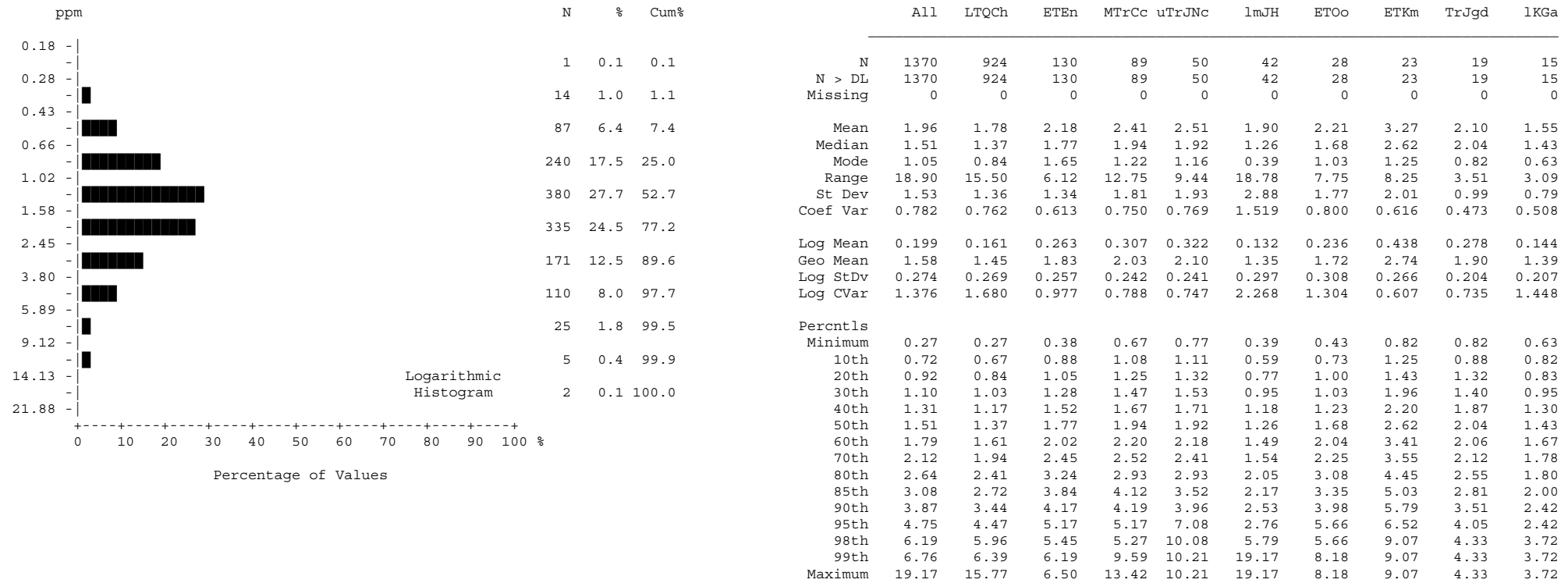


Lanthanum (La) Sediment

number of values : 1370
 units : ppm
 detection limit : 0.5
 analytical method : ICPMS

Lanthanum by ICPMS

Summary Statistics

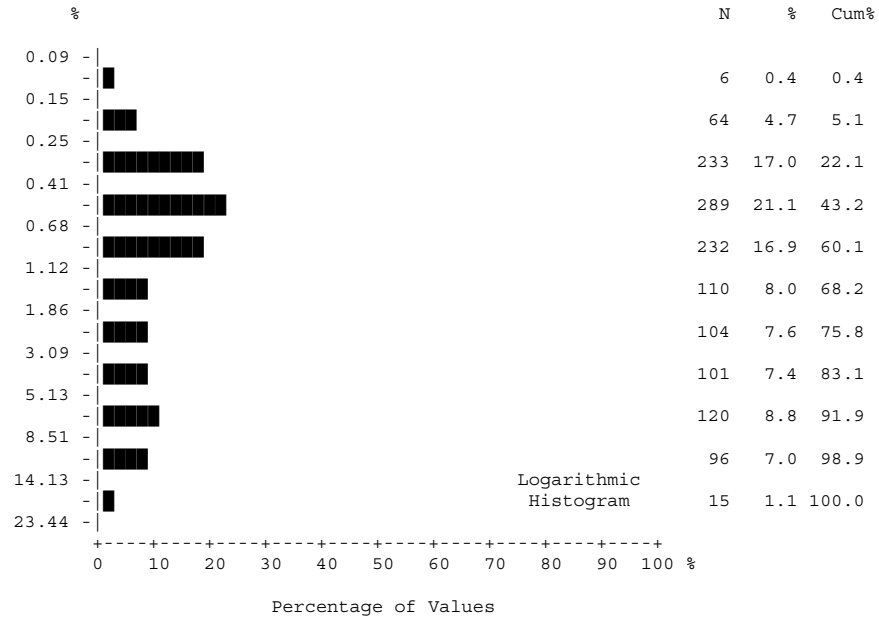


Lead (Pb)
Sediment

number of values : 1370
units : ppm
detection limit : 0.01
analytical method : ICPMS

Lead by ICPMS

Summary Statistics



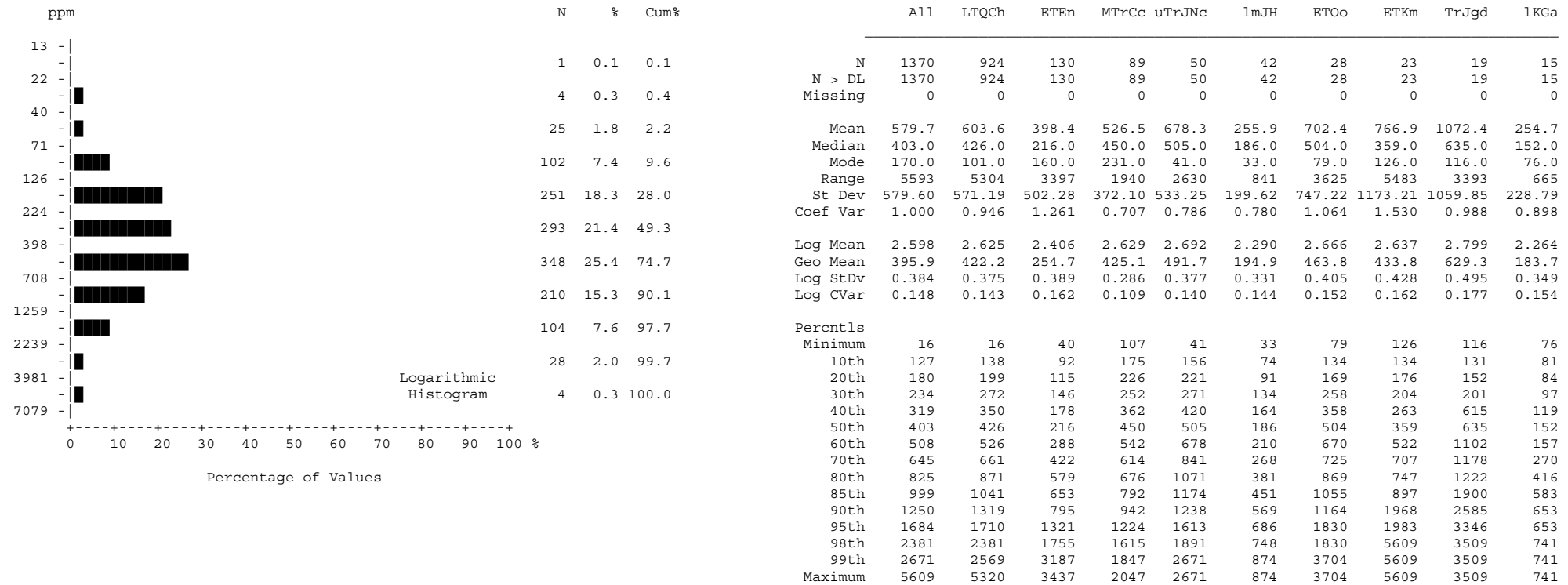
	All	LTQCh	ETEn	MTrCc	uTrJNC	lmJH	EToo	ETKm	TrJgd	lKGa
N	1370	924	130	89	50	42	28	23	19	15
N > DL	1370	924	130	89	50	42	28	23	19	15
Missing	0	0	0	0	0	0	0	0	0	0
Mean	2.43	2.88	0.68	3.58	0.83	0.48	0.55	1.12	0.42	1.21
Median	0.80	1.03	0.39	1.13	0.56	0.26	0.32	0.47	0.37	0.36
Mode	0.39	0.52	0.28	0.56	0.55	0.19	0.39	0.36	0.37	0.23
Range	19.33	19.28	6.42	15.53	6.34	4.35	3.52	7.86	0.55	4.74
St Dev	3.33	3.53	0.90	4.28	0.97	0.68	0.70	1.79	0.15	1.64
Coef Var	1.366	1.224	1.327	1.194	1.176	1.418	1.274	1.590	0.356	1.355
Log Mean	0.052	0.155	-0.328	0.232	-0.200	-0.477	-0.395	-0.184	-0.400	-0.212
Geo Mean	1.13	1.43	0.47	1.71	0.63	0.33	0.40	0.65	0.40	0.61
Log StDv	0.523	0.517	0.316	0.537	0.275	0.327	0.285	0.379	0.137	0.485
Log CVar	10.055	3.337	-0.967	2.326	-1.376	-0.685	-0.720	-2.060	-0.344	-2.297
Percentls										
Minimum	0.12	0.17	0.14	0.27	0.19	0.12	0.20	0.26	0.24	0.21
10th	0.29	0.35	0.25	0.47	0.32	0.14	0.23	0.34	0.25	0.23
20th	0.39	0.47	0.28	0.54	0.38	0.17	0.25	0.36	0.33	0.23
30th	0.48	0.63	0.30	0.62	0.44	0.20	0.27	0.38	0.34	0.29
40th	0.63	0.79	0.34	0.71	0.53	0.23	0.30	0.41	0.35	0.31
50th	0.80	1.03	0.39	1.13	0.56	0.26	0.32	0.47	0.37	0.36
60th	1.12	1.71	0.44	1.88	0.63	0.39	0.36	0.54	0.37	0.43
70th	2.16	3.07	0.49	4.34	0.73	0.44	0.39	0.57	0.39	0.77
80th	4.26	5.34	0.66	7.59	0.92	0.63	0.57	0.76	0.48	1.30
85th	5.88	6.78	0.89	9.17	1.01	0.67	0.65	1.47	0.54	3.00
90th	7.74	8.48	1.50	10.10	1.26	0.76	0.65	2.60	0.57	4.72
95th	10.15	10.86	2.26	12.72	1.73	1.10	1.83	4.40	0.75	4.72
98th	12.66	13.52	3.03	14.92	3.42	1.21	1.83	8.12	0.79	4.95
99th	14.37	14.57	5.46	15.42	6.53	4.47	3.72	8.12	0.79	4.95
Maximum	19.45	19.45	6.56	15.80	6.53	4.47	3.72	8.12	0.79	4.95

Magnesium (Mg) Sediment

number of values : 1370
 units : %
 detection limit : 0.01
 analytical method : ICPMS

Magnesium by ICPMS

Summary Statistics

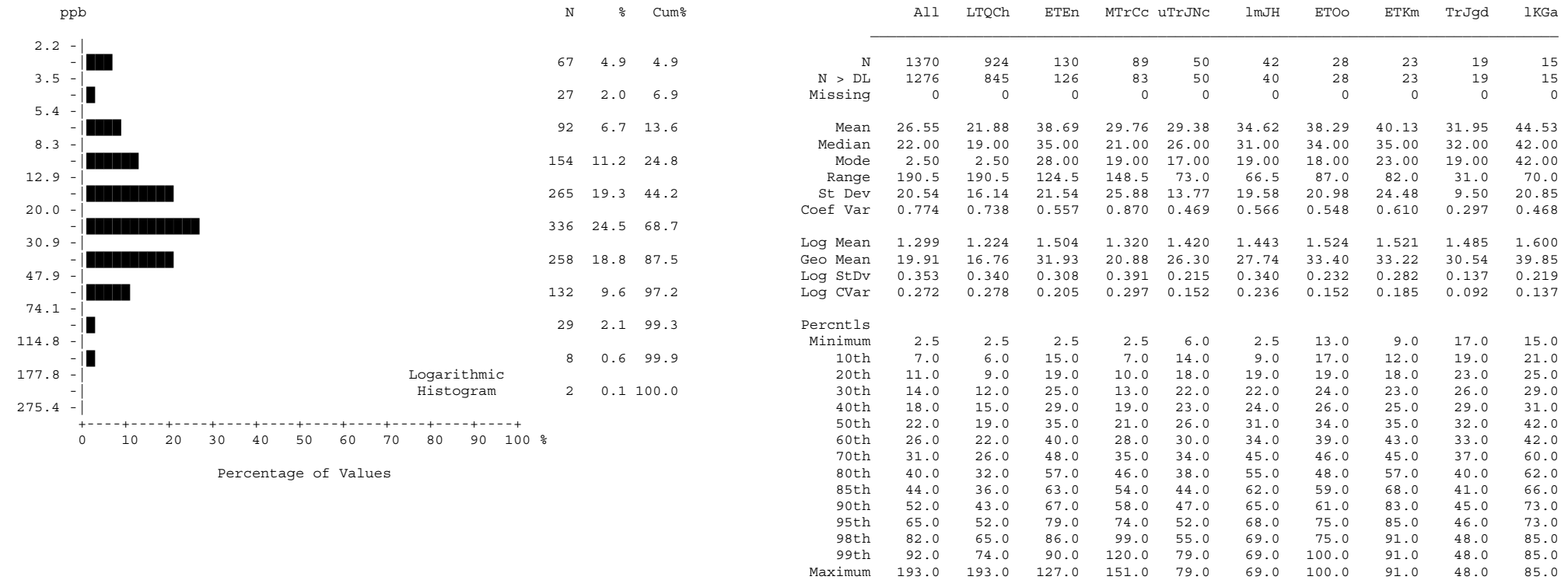


Manganese (Mn)
Sediment

number of values : 1370
 units : ppm
 detection limit : 1
 analytical method : ICPMS

Manganese by ICPMS

Summary Statistics

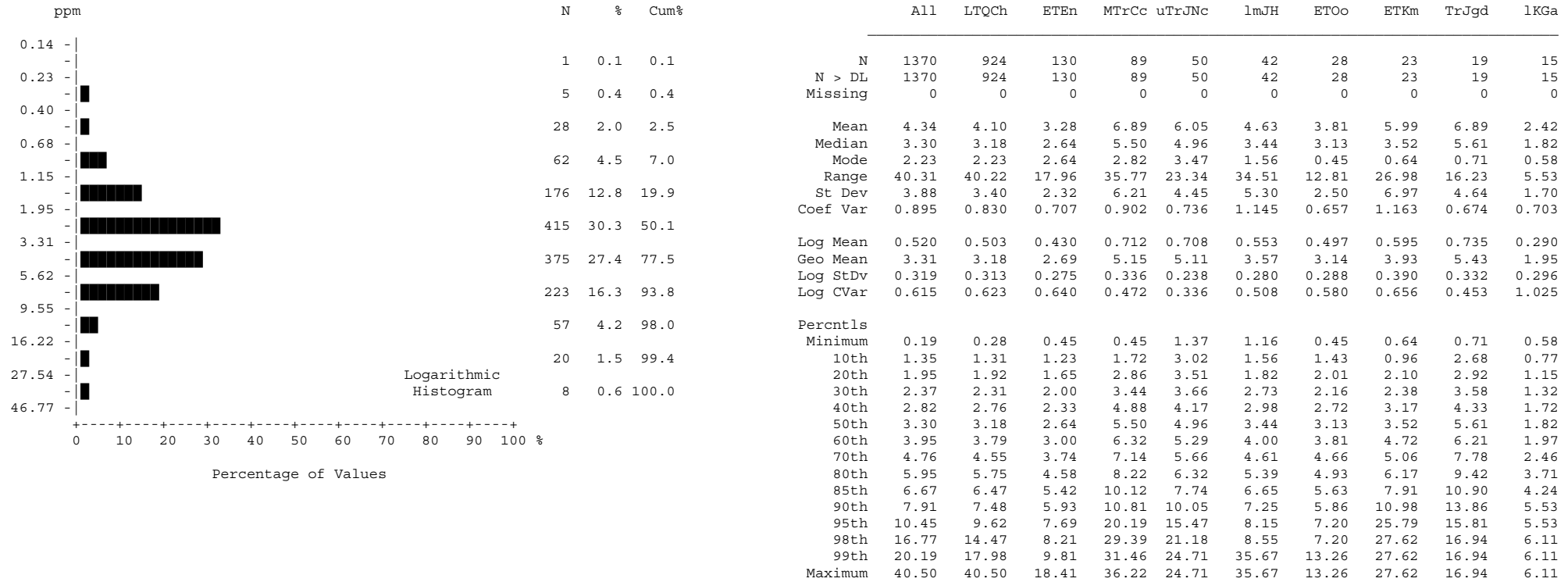


**Mercury (Hg)
Sediment**

number of values : 1370
 units : ppb
 detection limit : 5
 analytical method : ICPMS

Mercury by ICPMS

Summary Statistics

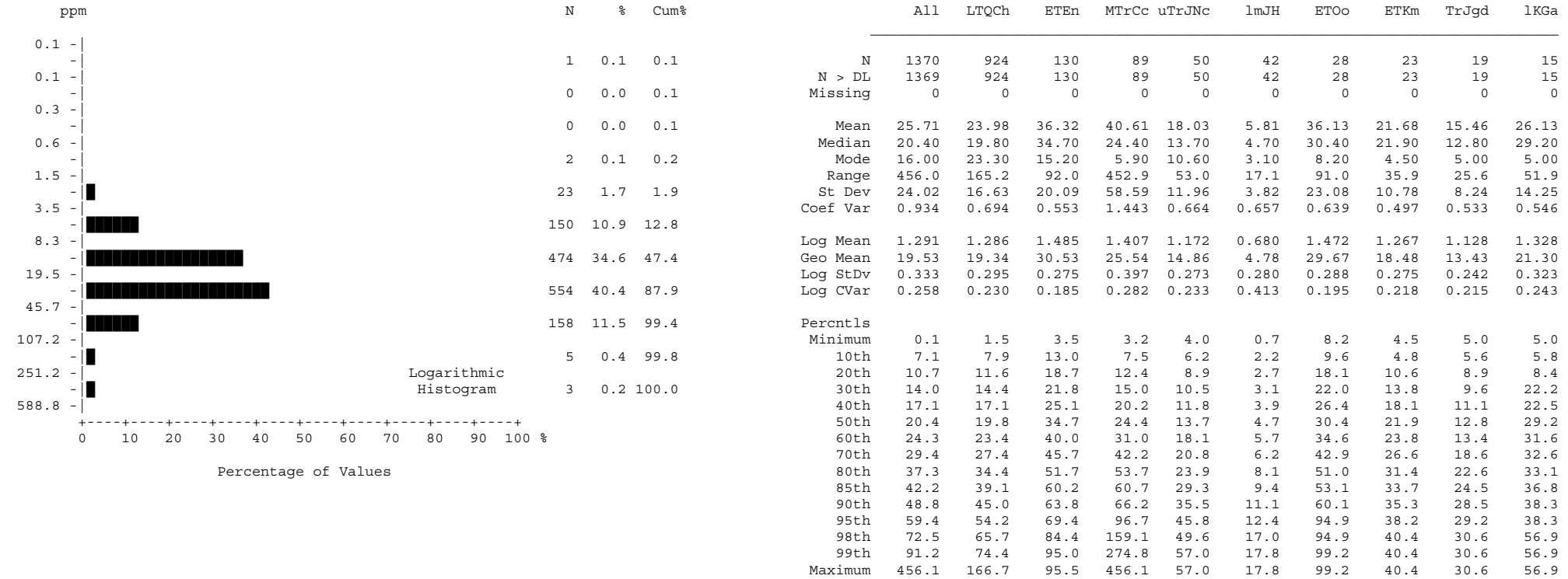


Molybdenum (Mo) Sediment

number of values : 1370
 units : ppm
 detection limit : 0.01
 analytical method : ICPMS

Molybdenum by ICPMS

Summary Statistics

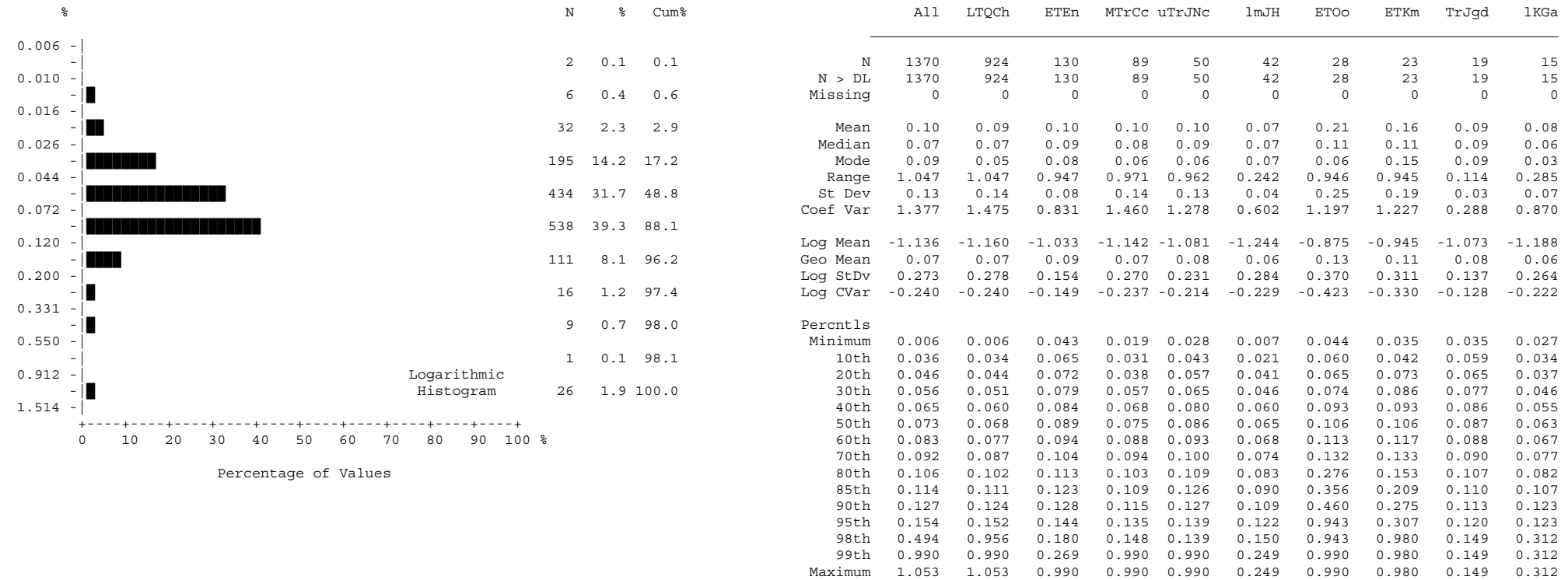


Nickel (Ni) Sediment

number of values : 1370
 units : ppm
 detection limit : 0.1
 analytical method : ICPMS

Nickel by ICPMS

Summary Statistics

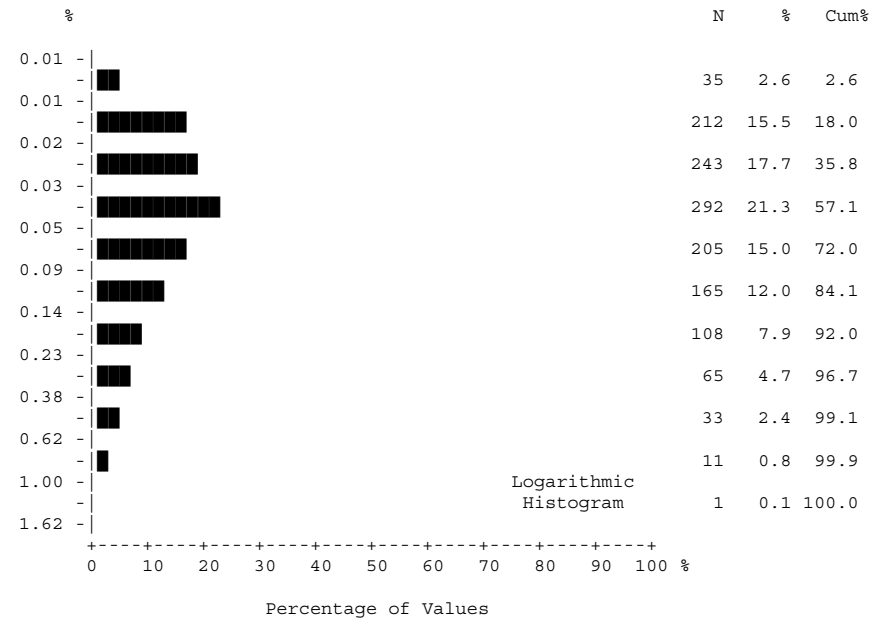


Phosphorus (P) Sediment

number of values : 1370
 units : %
 detection limit : 0.001
 analytical method : ICPMS

Phosphorus by ICPMS

Summary Statistics



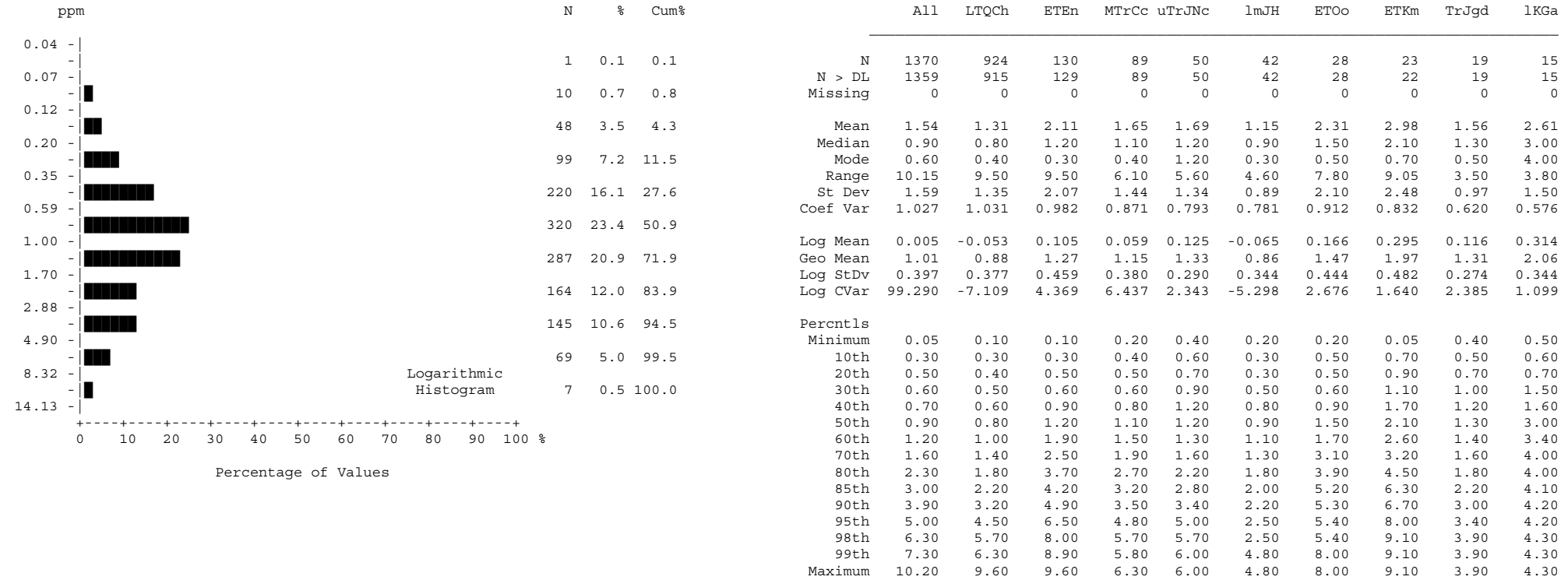
	All	LTQCh	ETEn	MTrCc	uTrJNc	lmJH	EToo	ETKm	TrJgd	lKGa
N	1370	924	130	89	50	42	28	23	19	15
N > DL	1335	899	128	88	50	40	25	23	19	14
Missing	0	0	0	0	0	0	0	0	0	0
Mean	0.09	0.09	0.06	0.16	0.06	0.07	0.10	0.09	0.05	0.05
Median	0.05	0.05	0.04	0.07	0.04	0.03	0.05	0.09	0.04	0.04
Mode	0.03	0.03	0.03	0.03	0.03	0.02	0.04	0.09	0.02	0.04
Range	1.12	0.92	0.43	0.77	0.46	0.32	1.12	0.20	0.10	0.18
St Dev	0.11	0.11	0.05	0.18	0.07	0.08	0.22	0.05	0.03	0.04
Coef Var	1.283	1.254	0.958	1.130	1.109	1.169	2.079	0.519	0.573	0.854
Log Mean	-1.258	-1.263	-1.357	-1.048	-1.324	-1.373	-1.291	-1.122	-1.375	-1.389
Geo Mean	0.06	0.05	0.04	0.09	0.05	0.04	0.05	0.08	0.04	0.04
Log StDv	0.388	0.391	0.289	0.478	0.253	0.399	0.442	0.257	0.243	0.312
Log CVar	-0.308	-0.309	-0.213	-0.456	-0.191	-0.290	-0.343	-0.229	-0.177	-0.225
Percentls										
Minimum	0.01	0.01	0.01	0.01	0.02	0.01	0.01	0.02	0.02	0.01
10th	0.02	0.02	0.02	0.03	0.03	0.02	0.01	0.02	0.02	0.02
20th	0.03	0.03	0.03	0.03	0.03	0.02	0.03	0.05	0.02	0.02
30th	0.03	0.03	0.03	0.04	0.03	0.02	0.03	0.06	0.03	0.03
40th	0.04	0.04	0.03	0.05	0.04	0.03	0.04	0.07	0.03	0.03
50th	0.05	0.05	0.04	0.07	0.04	0.03	0.05	0.09	0.04	0.04
60th	0.06	0.06	0.05	0.09	0.05	0.04	0.06	0.09	0.05	0.04
70th	0.08	0.08	0.06	0.19	0.06	0.05	0.06	0.10	0.06	0.05
80th	0.11	0.12	0.07	0.29	0.07	0.09	0.08	0.11	0.06	0.07
85th	0.15	0.16	0.08	0.34	0.09	0.16	0.11	0.13	0.07	0.08
90th	0.21	0.21	0.11	0.42	0.09	0.18	0.11	0.14	0.09	0.10
95th	0.31	0.30	0.16	0.53	0.11	0.26	0.45	0.14	0.09	0.10
98th	0.44	0.42	0.19	0.65	0.12	0.29	0.45	0.22	0.12	0.19
99th	0.60	0.60	0.26	0.74	0.48	0.33	1.13	0.22	0.12	0.19
Maximum	1.13	0.93	0.44	0.78	0.48	0.33	1.13	0.22	0.12	0.19

Potassium (K) Sediment

number of values : 1370
 units : %
 detection limit : 0.01
 analytical method : ICPMS

Potassium by ICPMS

Summary Statistics

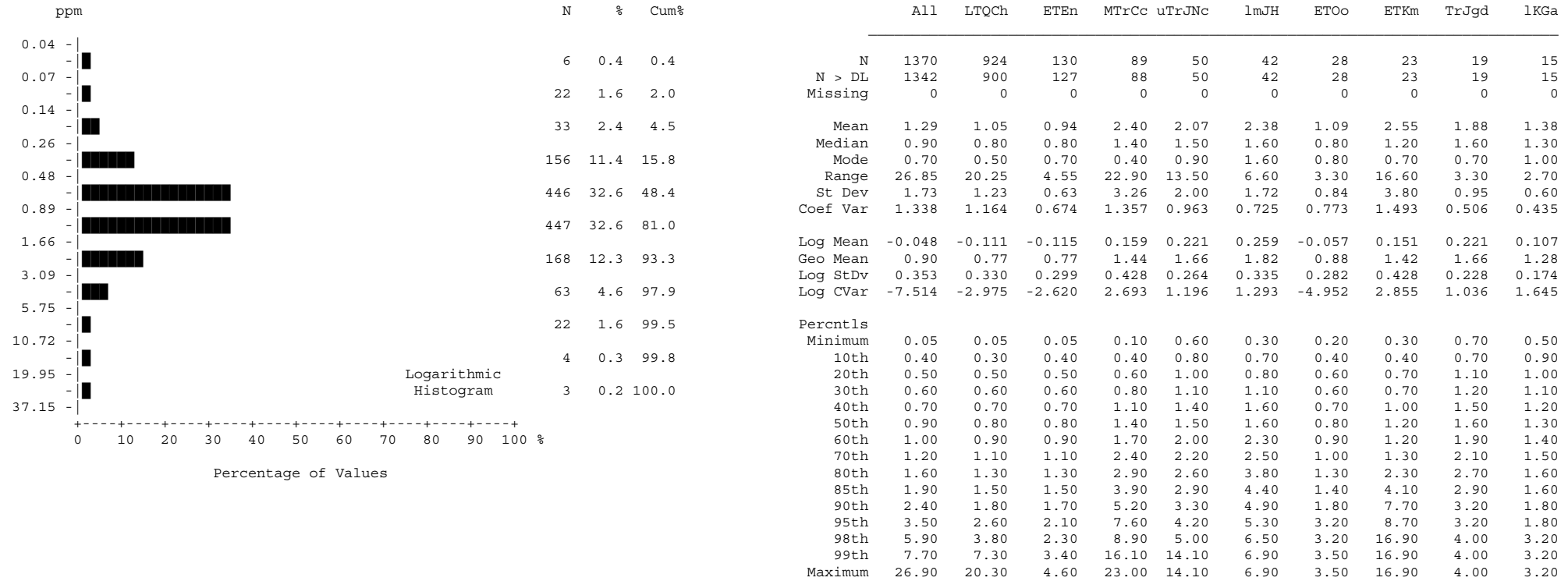


Scandium (Sc)
Sediment

number of values : 1370
 units : ppm
 detection limit : 0.1
 analytical method : ICPMS

Scandium by ICPMS

Summary Statistics

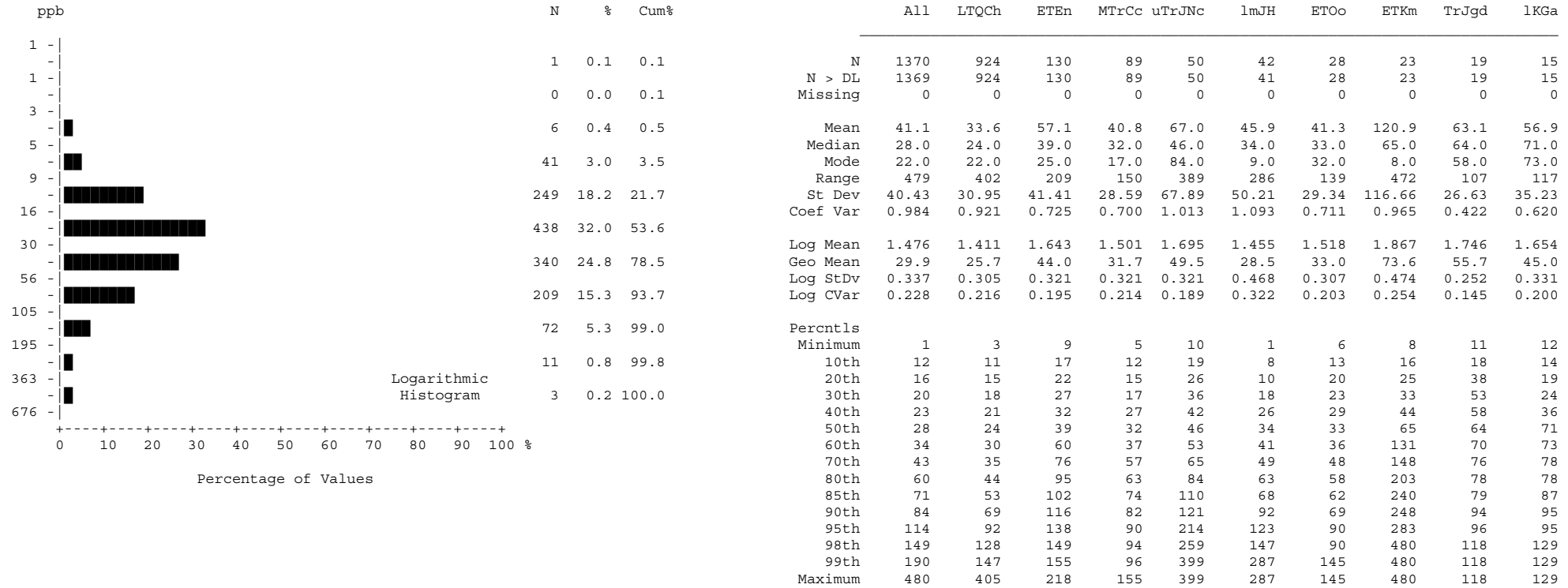


Selenium (Se) Sediment

number of values : 1370
 units : ppm
 detection limit : 0.1
 analytical method : ICPMS

Selenium by ICPMS

Summary Statistics

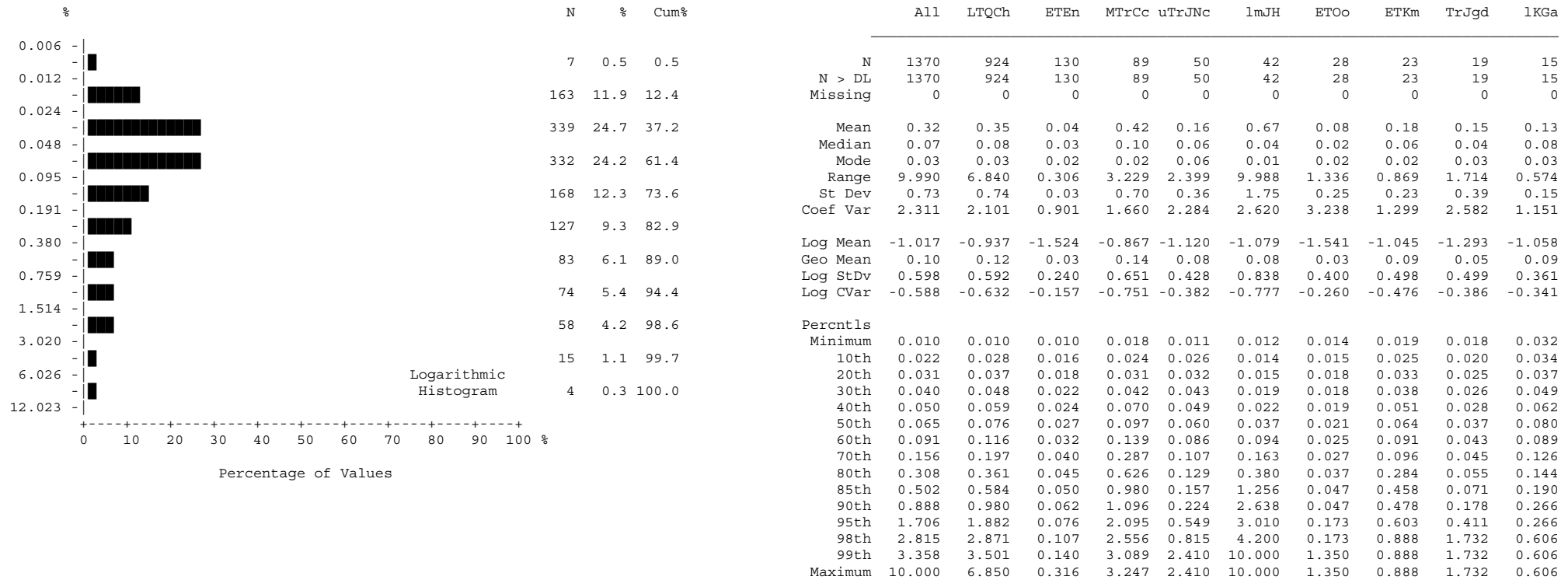


Silver (Ag) Sediment

number of values : 1370
 units : ppb
 detection limit : 2
 analytical method : ICPMS

Silver by ICPMS

Summary Statistics

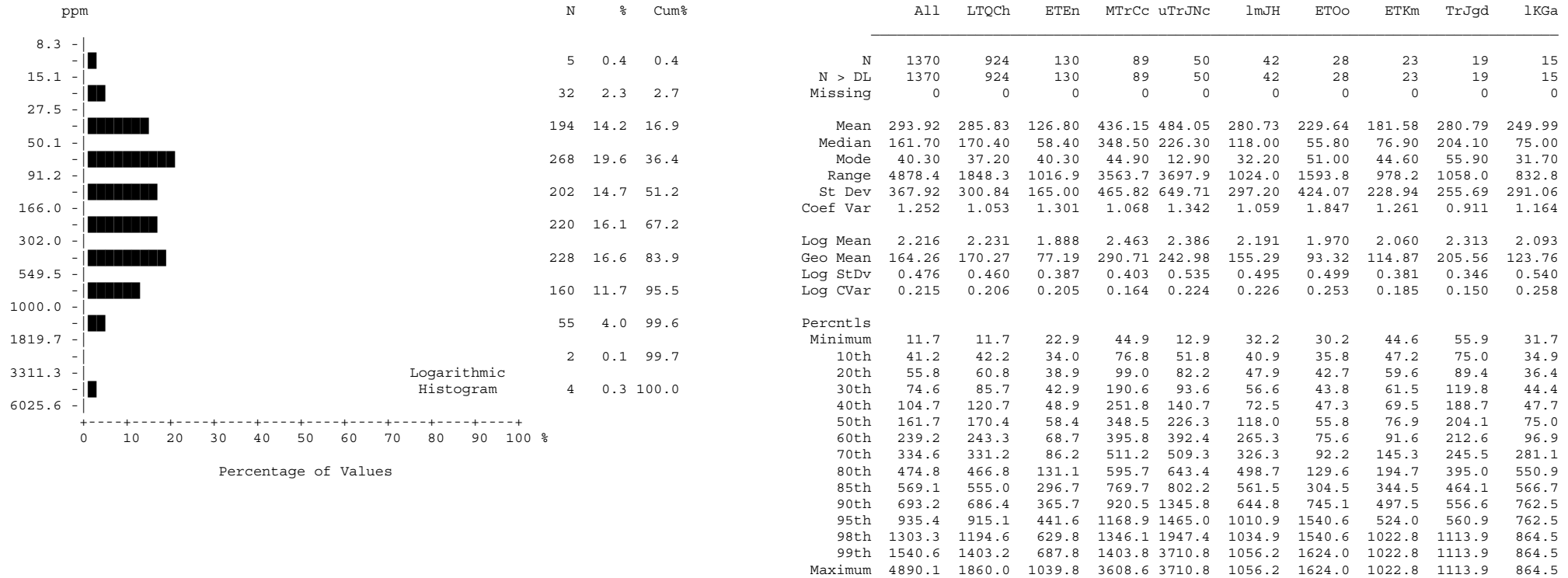


Sodium (Na) Sediment

number of values : 1370
 units : %
 detection limit : 0.001
 analytical method : ICPMS

Sodium by ICPMS

Summary Statistics

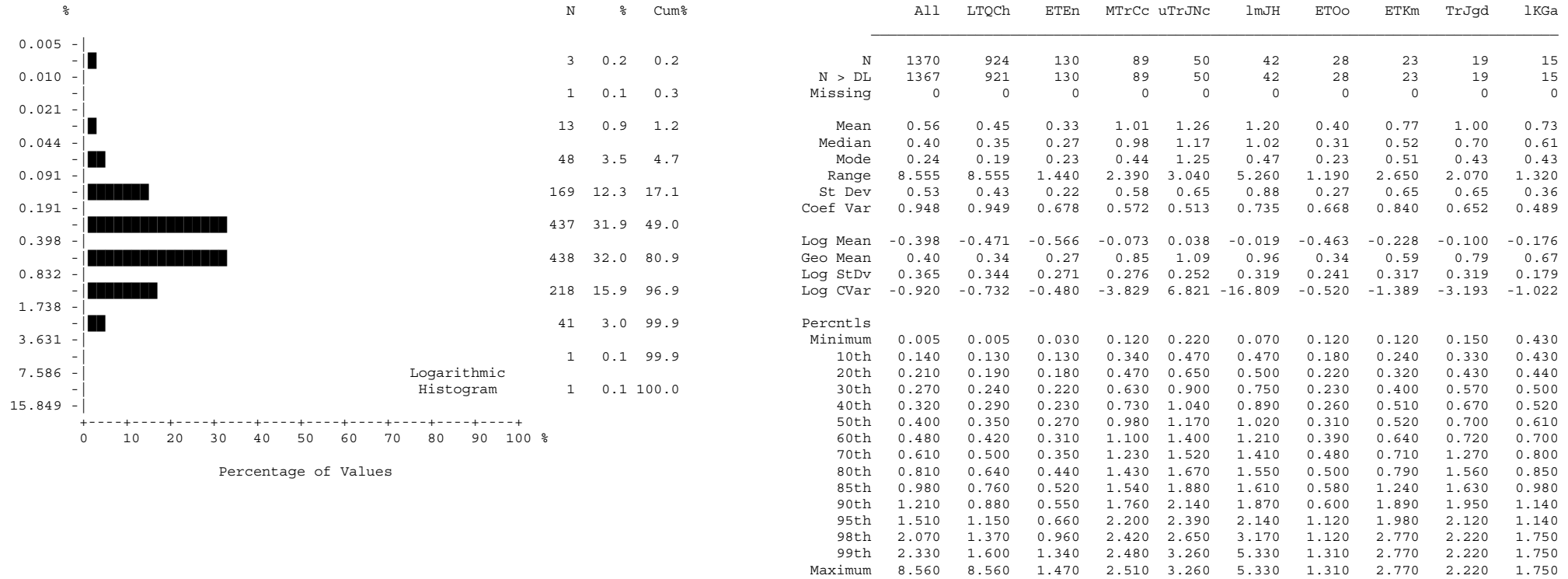


Strontium (Sr) Sediment

number of values : 1370
 units : ppm
 detection limit : 0.5
 analytical method : ICPMS

Strontium by ICPMS

Summary Statistics

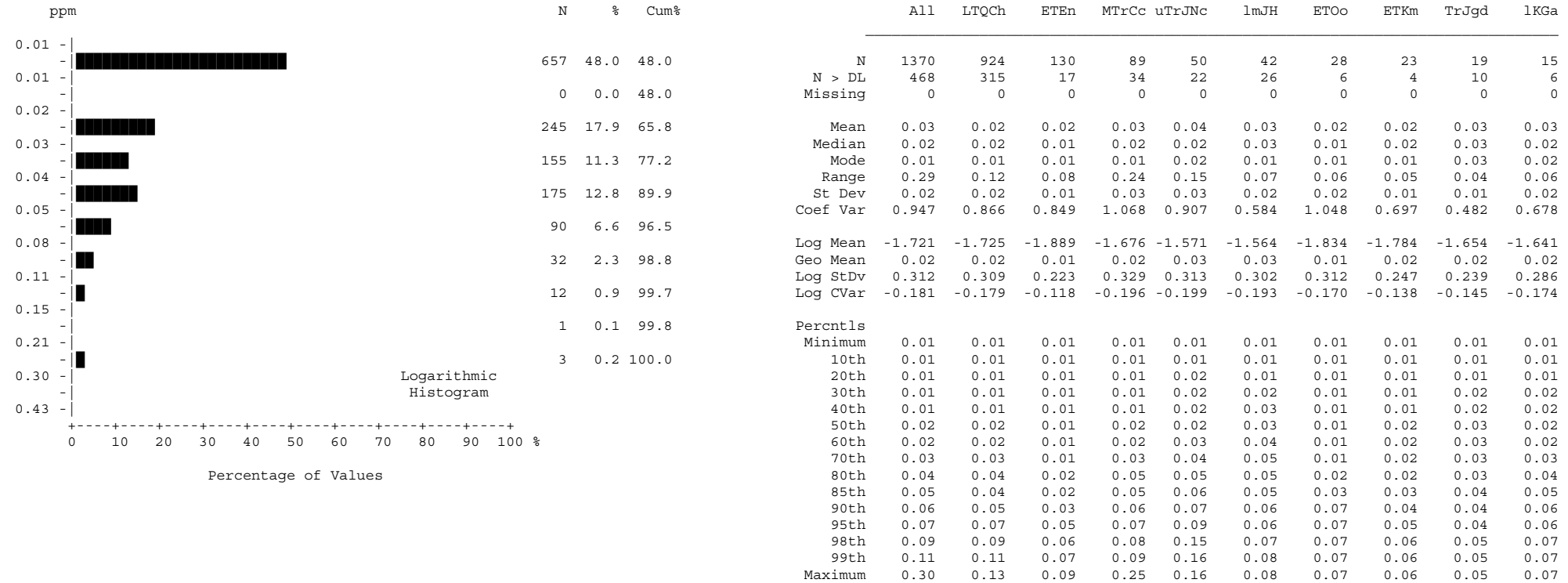


Sulphur (S) Sediment

number of values : 1370
 units : %
 detection limit : 0.01
 analytical method : ICPMS

Sulphur by ICPMS

Summary Statistics

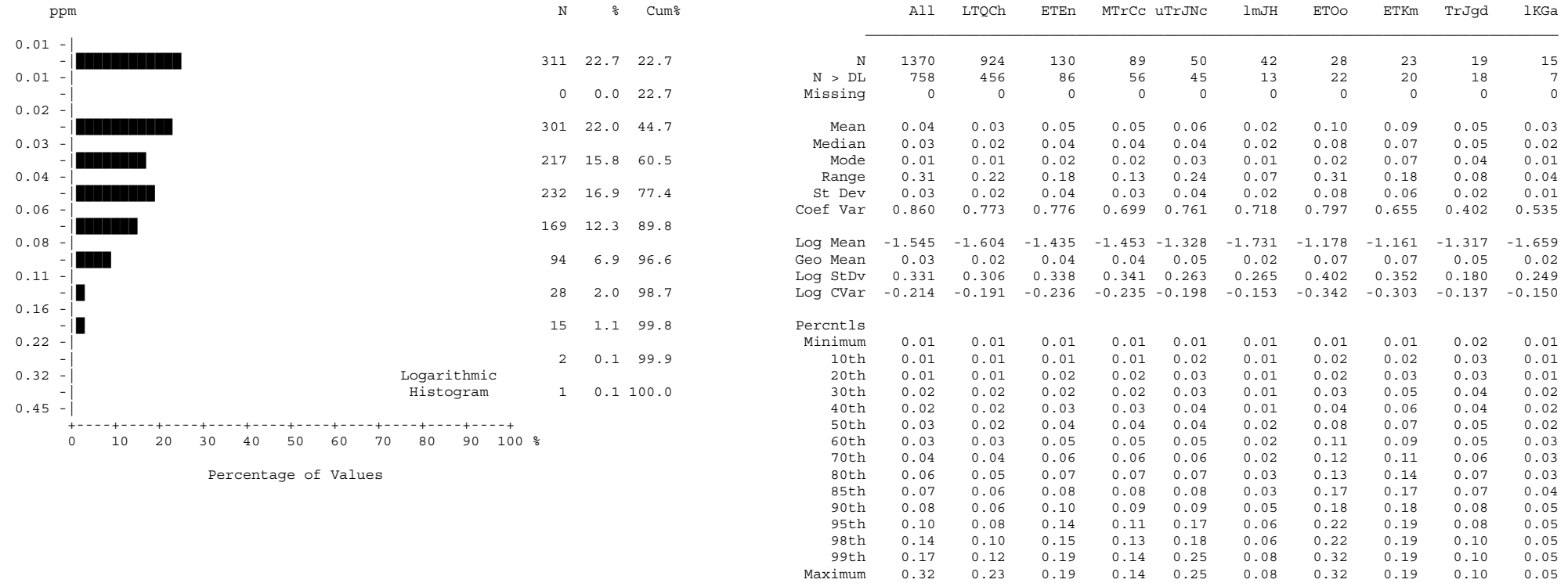


Tellurium (Te)
Sediment

number of values : 1370
 units : ppm
 detection limit : 0.02
 analytical method : ICPMS

Tellurium by ICPMS

Summary Statistics

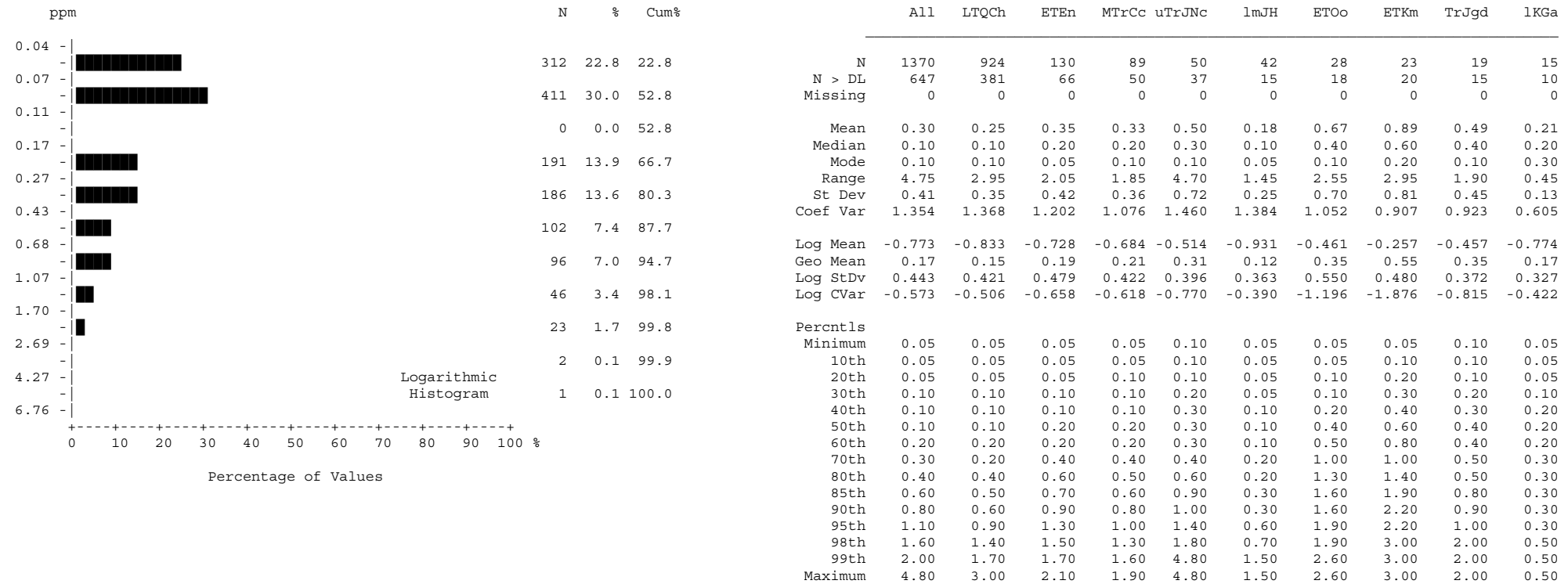


Thallium (TI) Sediment

number of values : 1370
 units : ppm
 detection limit : 0.02
 analytical method : ICPMS

Thallium by ICPMS

Summary Statistics

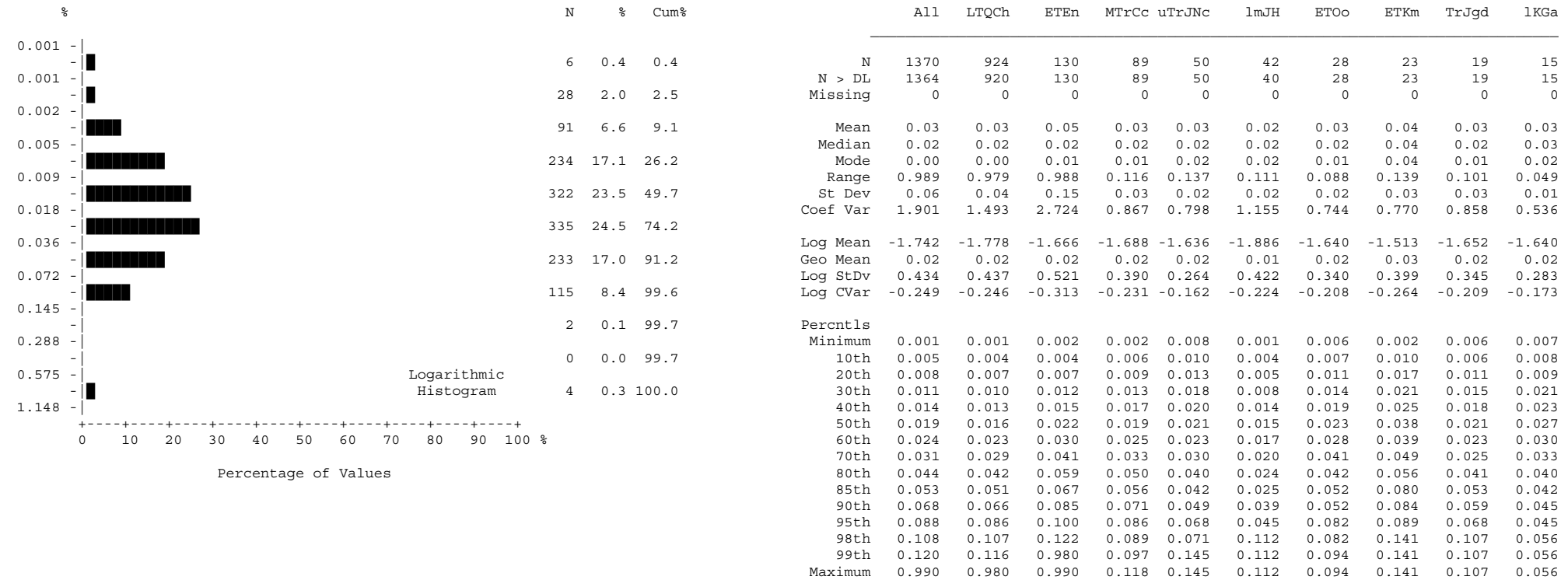


**Thorium (Th)
Sediment**

number of values : 1370
 units : ppm
 detection limit : 0.1
 analytical method : ICPMS

Thorium by ICPMS

Summary Statistics

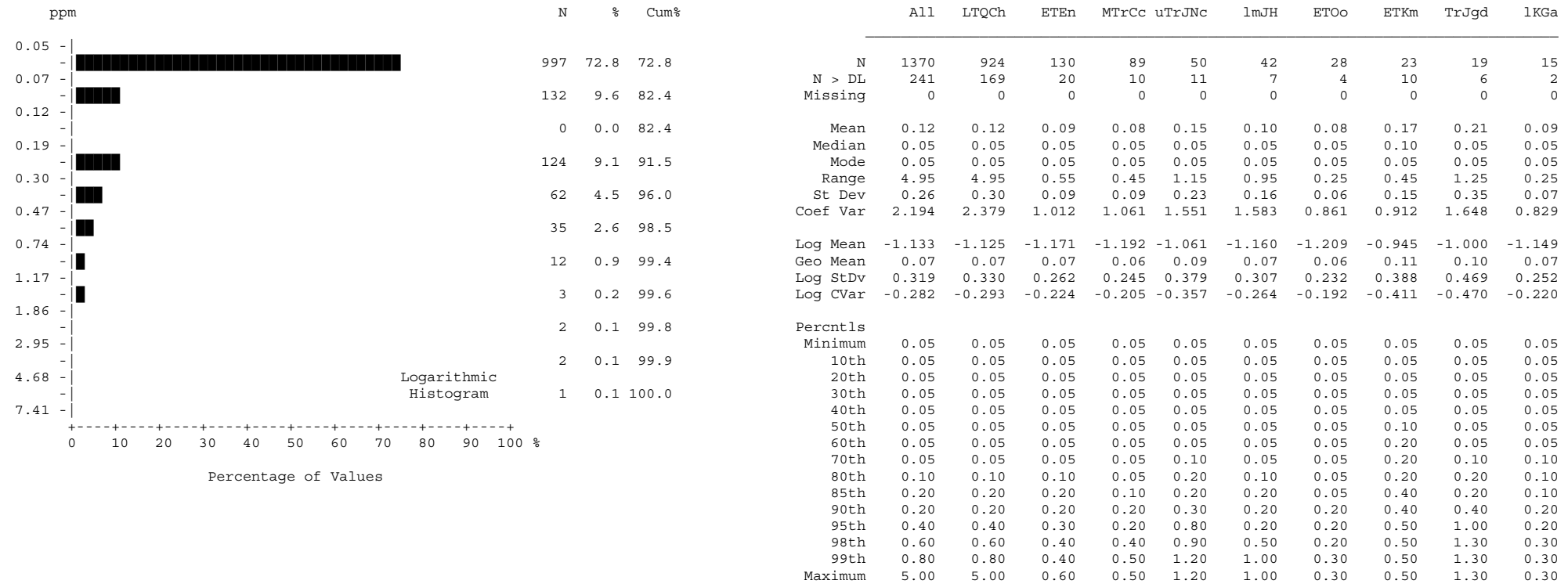


Titanium (Ti) Sediment

number of values : 1370
 units : %
 detection limit : 0.001
 analytical method : ICPMS

Titanium by ICPMS

Summary Statistics

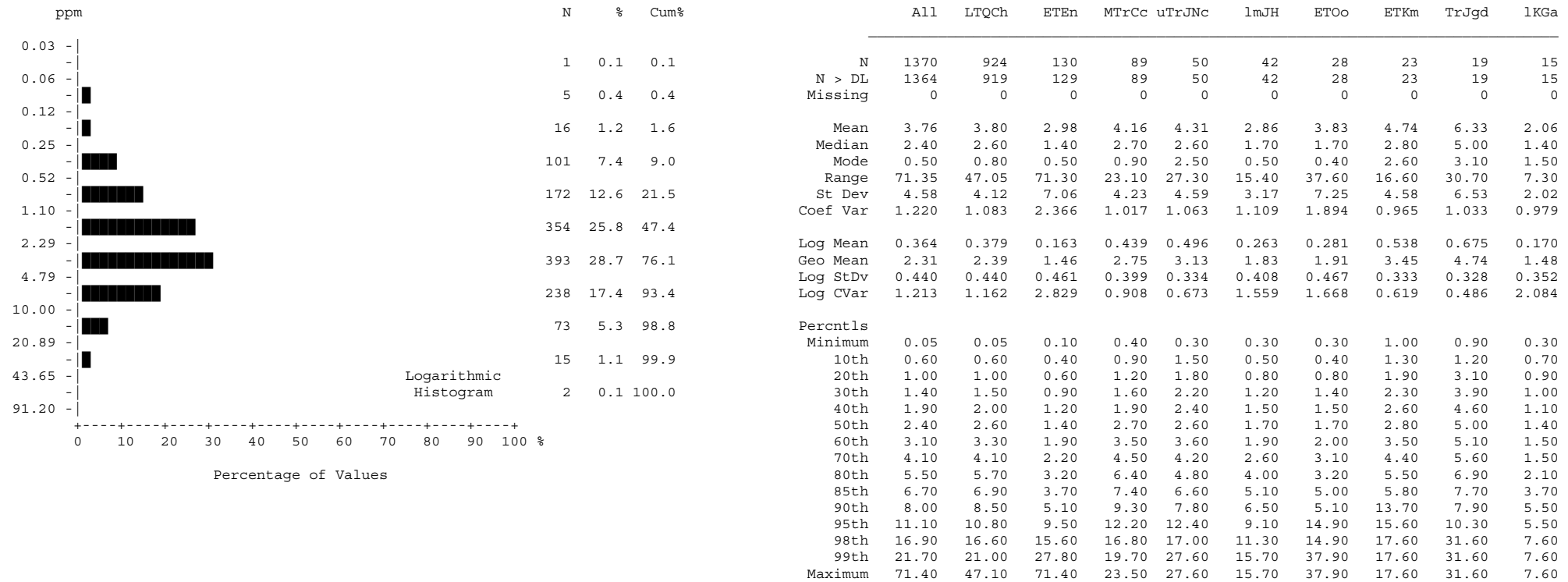


Tungsten (W)
Sediment

number of values : 1370
units : ppm
detection limit : 0.1
analytical method : ICPMS

Tungsten by ICPMS

Summary Statistics

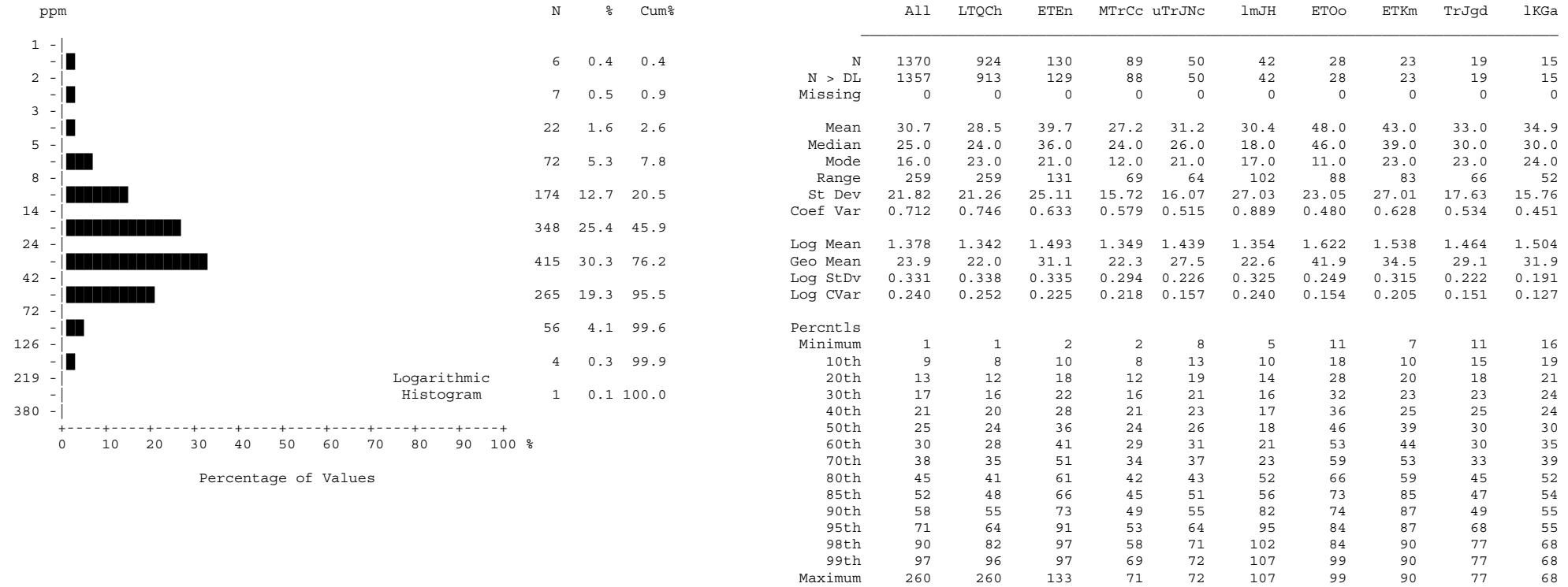


Uranium (U) Sediment

number of values : 1370
 units : ppm
 detection limit : 0.1
 analytical method : ICPMS

Uranium by ICPMS

Summary Statistics

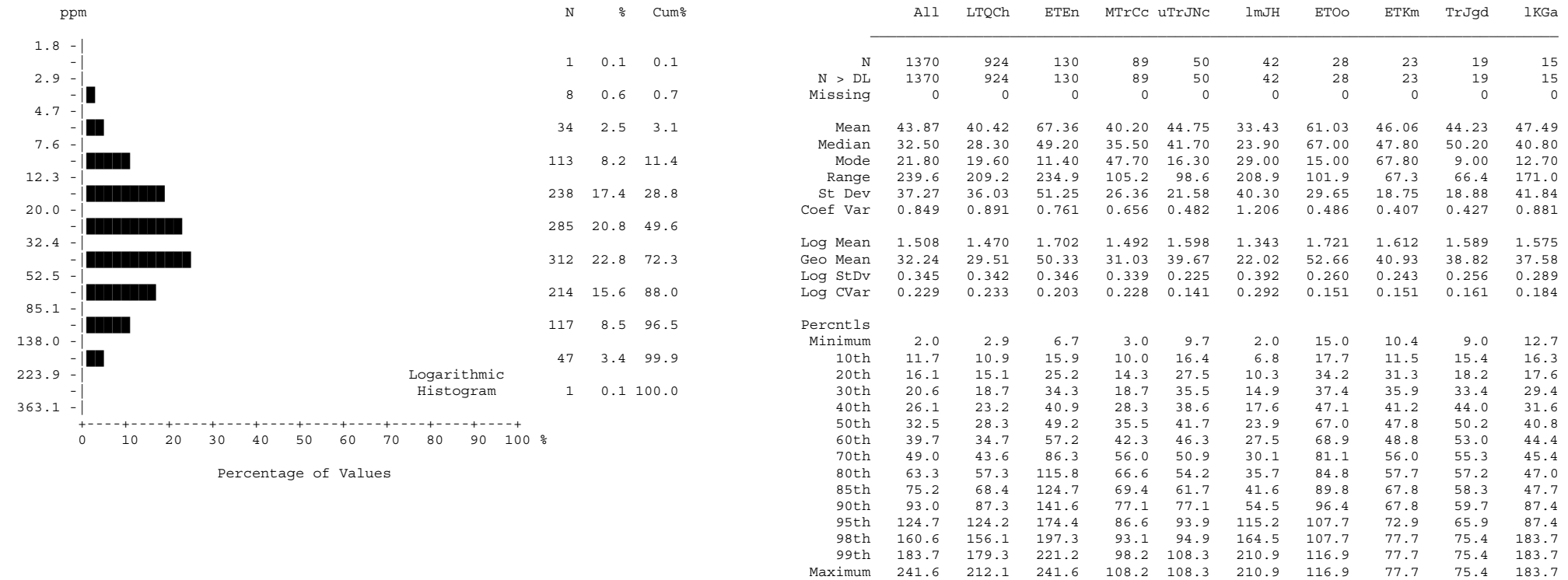


Vanadium (V) Sediment

number of values : 1370
 units : ppm
 detection limit : 2
 analytical method : ICPMS

Vanadium by ICPMS

Summary Statistics

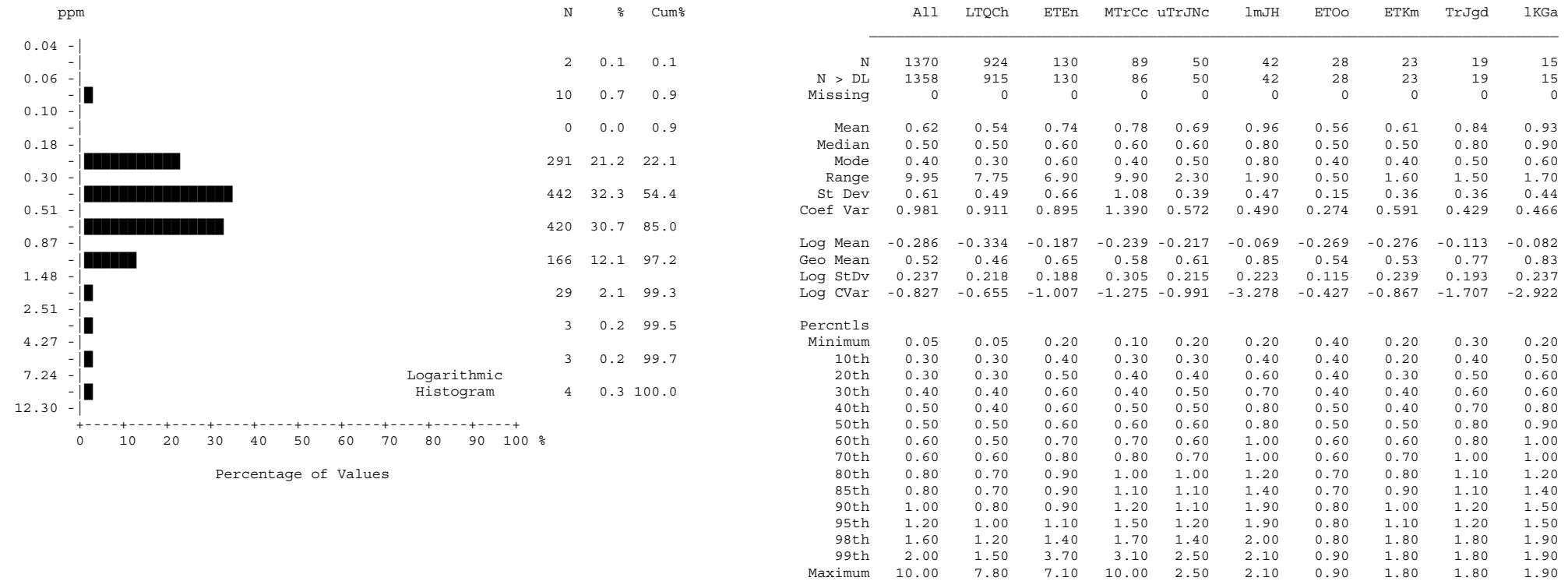


Zinc (Zn)
Sediment

number of values : 1370
 units : ppm
 detection limit : 0.1
 analytical method : ICPMS

Zinc by ICPMS

Summary Statistics

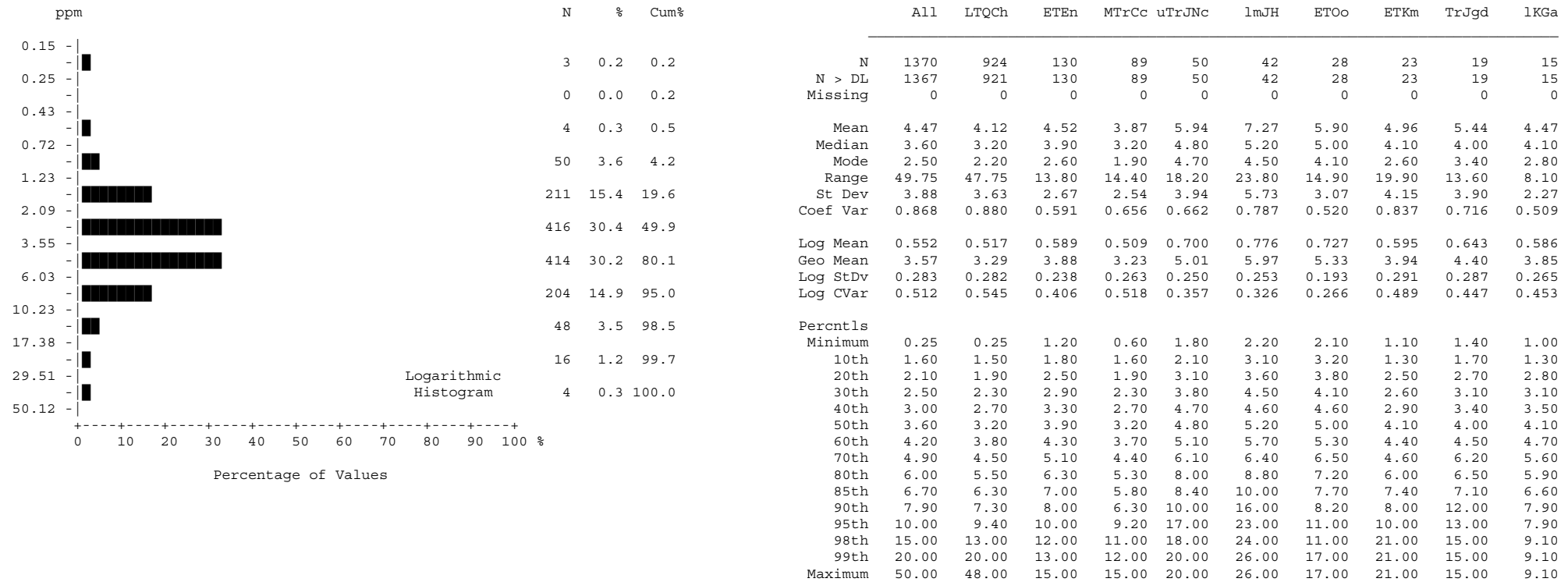


Antimony (Sb)
Sediment

number of values : 1370
 units : ppm
 detection limit : 0.1
 analytical method : INAA

Antimony by INAA

Summary Statistics

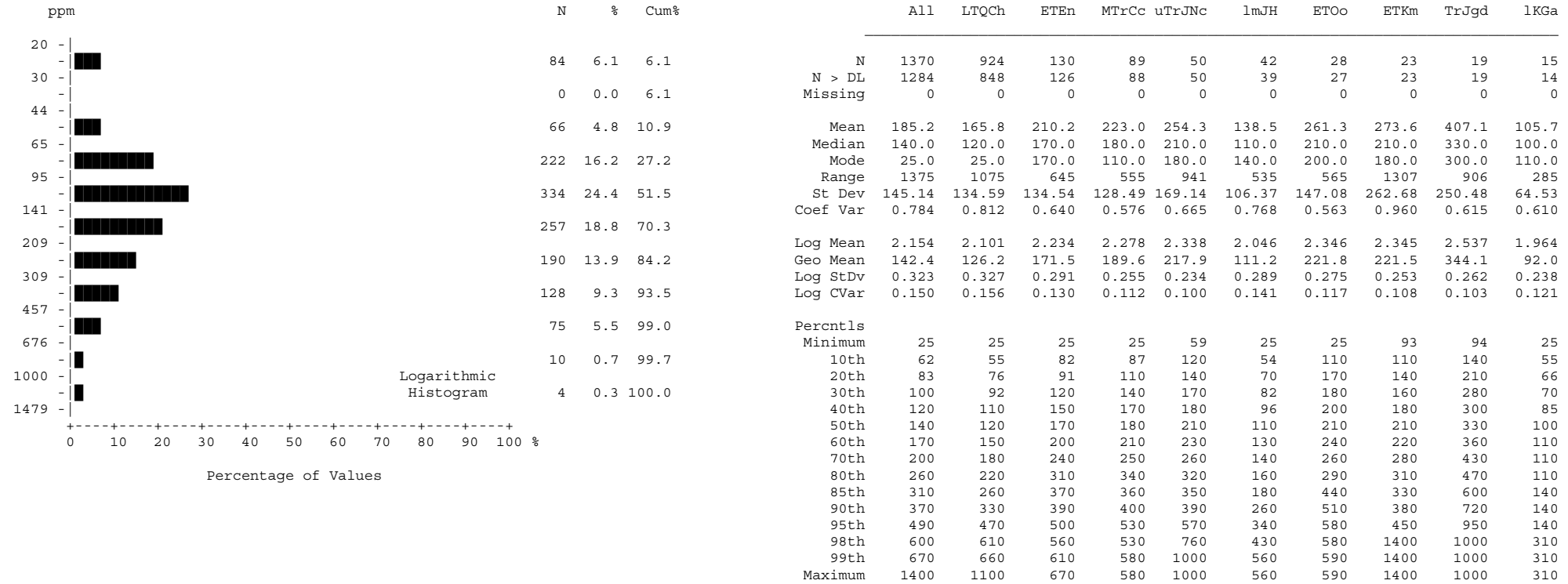


Arsenic (As) Sediment

number of values : 1370
 units : ppm
 detection limit : 0.5
 analytical method : INAA

Arsenic by INAA

Summary Statistics

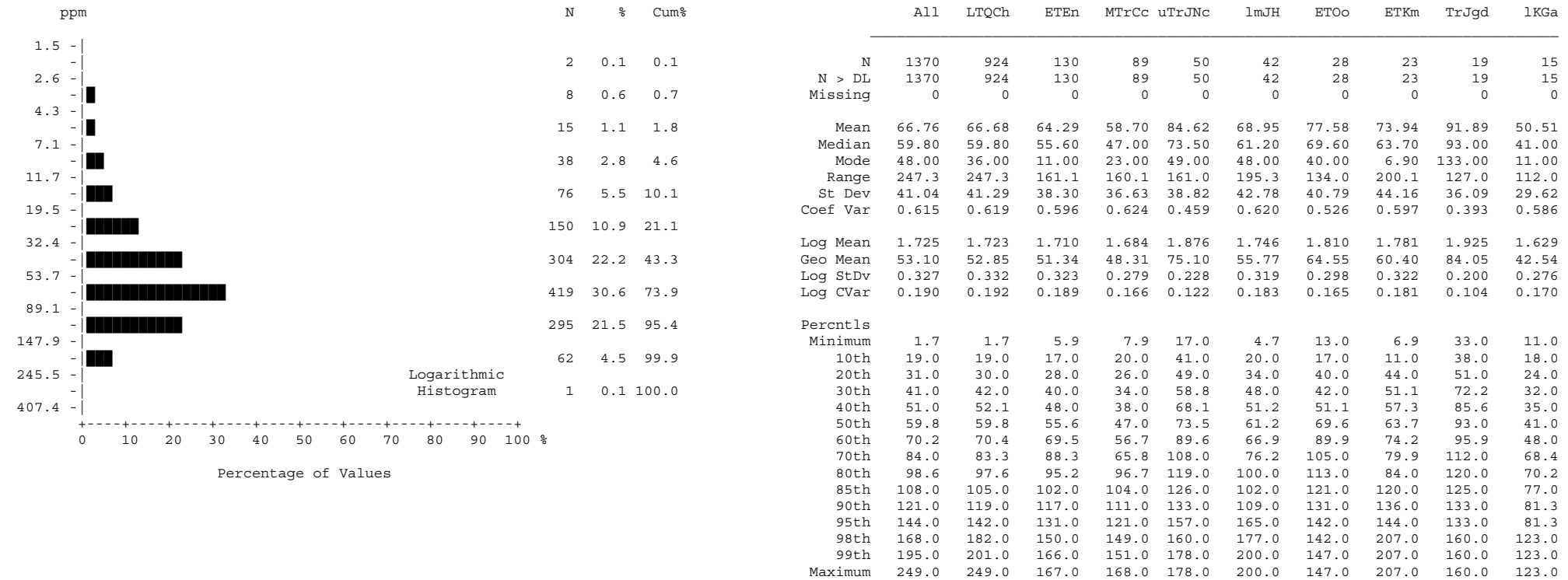


Barium (Ba)
Sediment

number of values : 1370
 units : ppm
 detection limit : 50
 analytical method : INAA

Barium by INAA

Summary Statistics

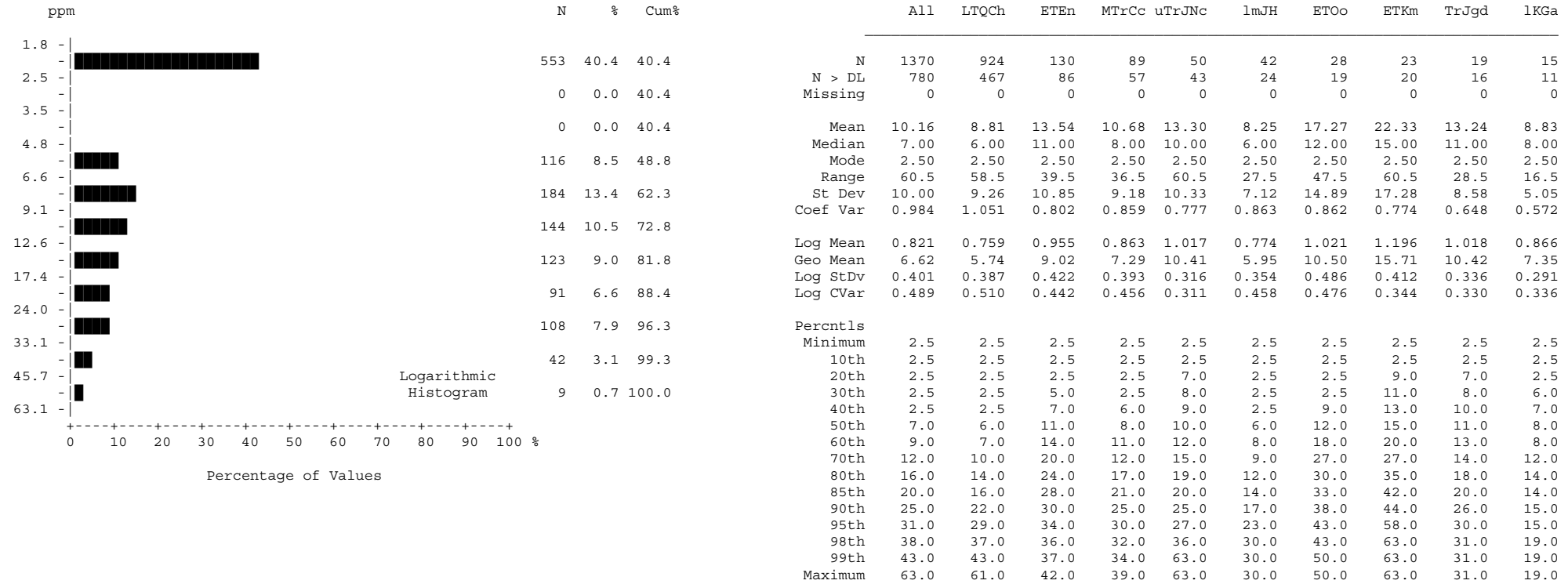


Bromine (Br) Sediment

number of values : 1370
 units : ppm
 detection limit : 0.5
 analytical method : INAA

Bromine by INAA

Summary Statistics

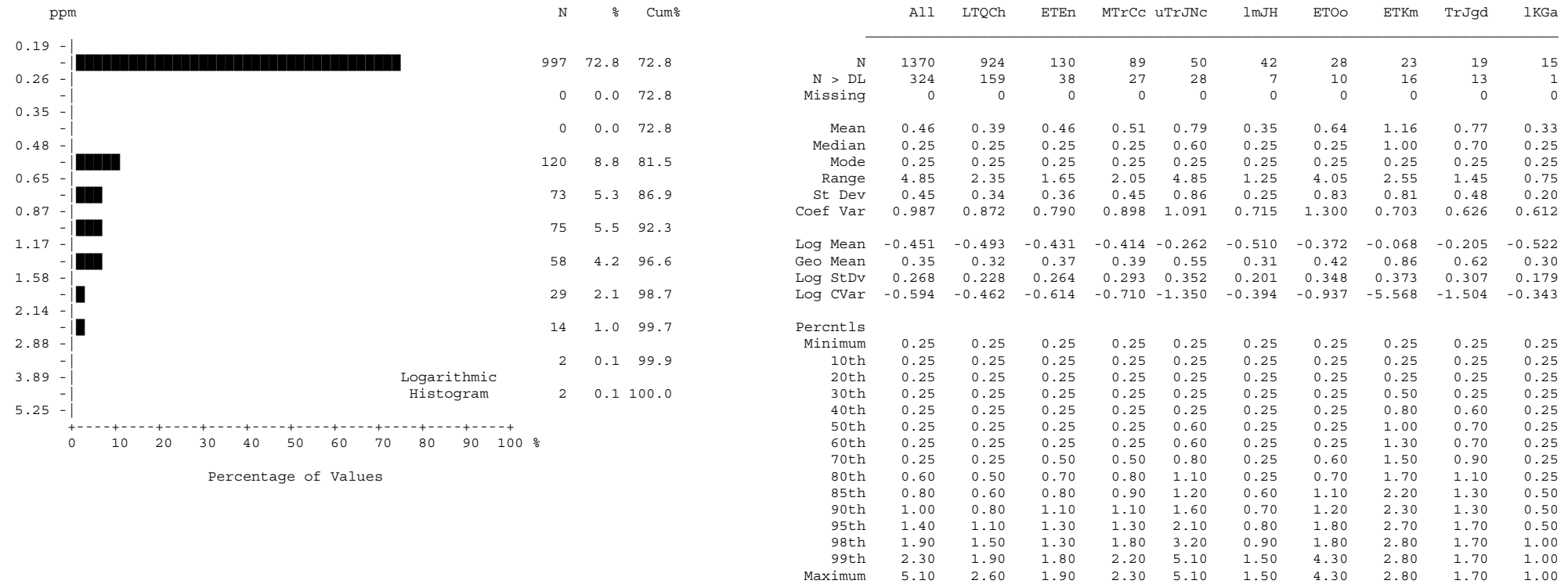


Cerium (Ce) Sediment

number of values : 1370
 units : ppm
 detection limit : 5
 analytical method : INAA

Cerium by INAA

Summary Statistics

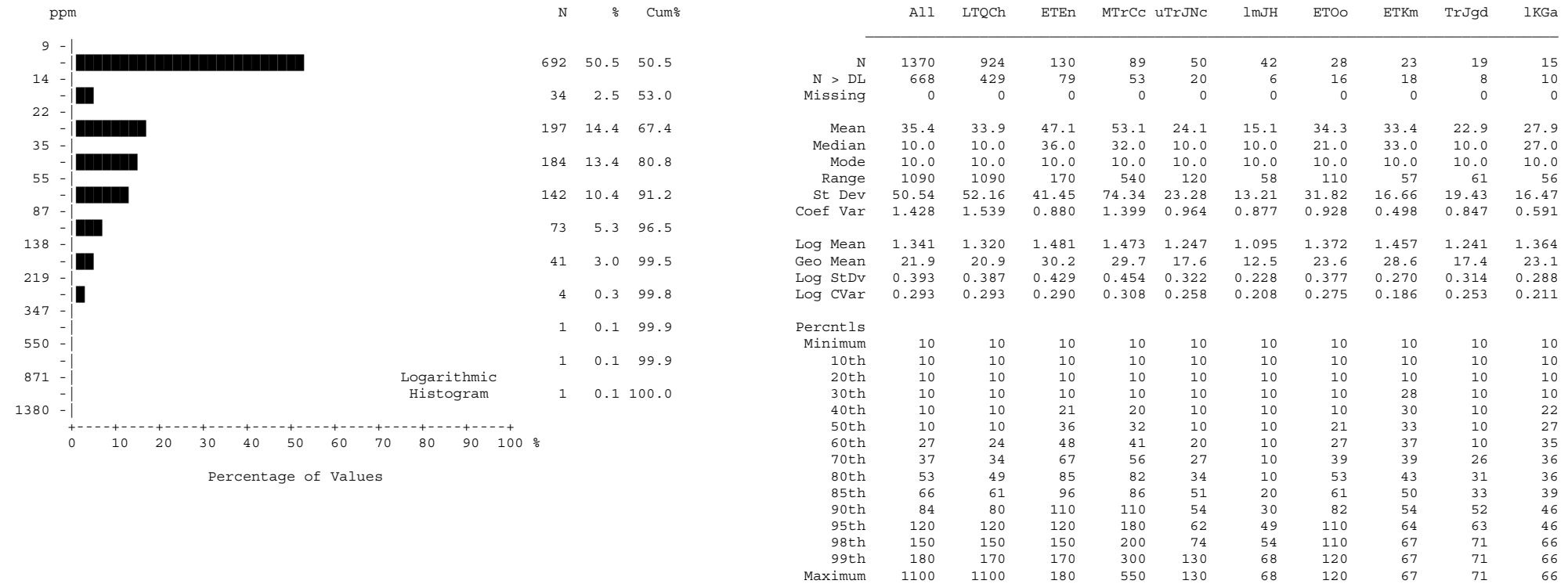


Cesium (Cs) Sediment

number of values : 1370
 units : ppm
 detection limit : 0.5
 analytical method : INAA

Cesium by INAA

Summary Statistics

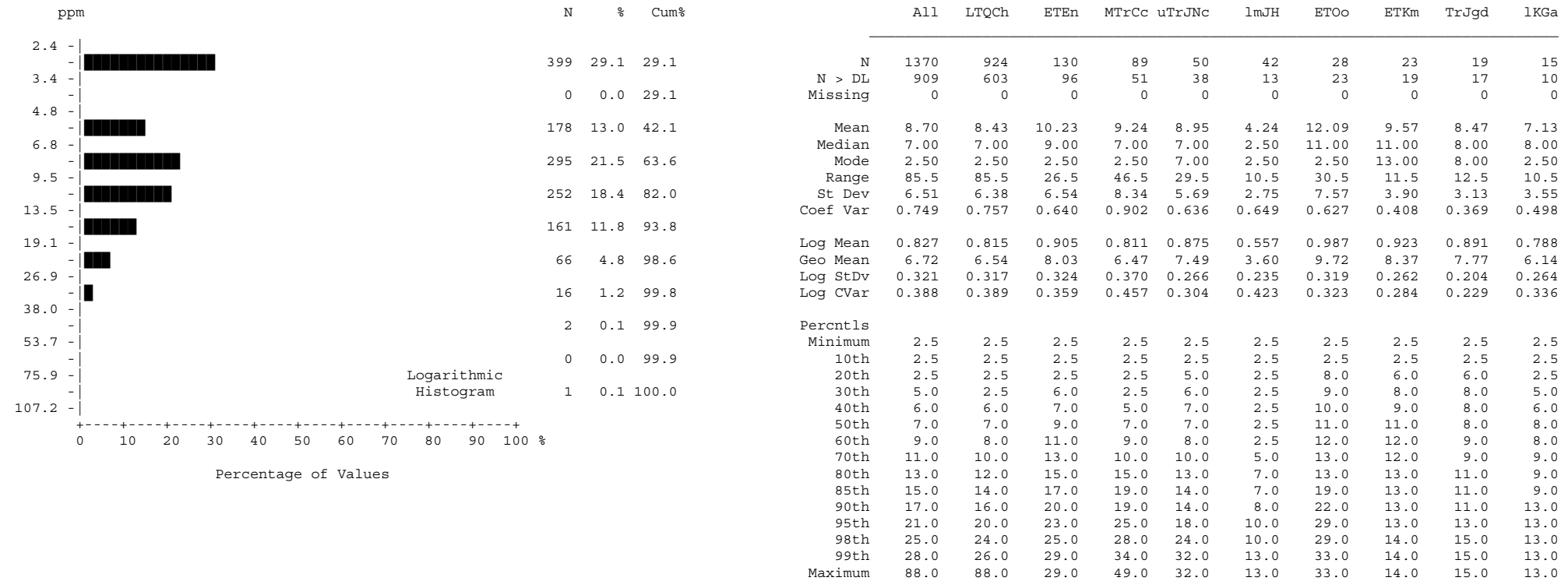


Chromium (Cr)
Sediment

number of values : 1370
 units : ppm
 detection limit : 20
 analytical method : INAA

Chromium by INAA

Summary Statistics

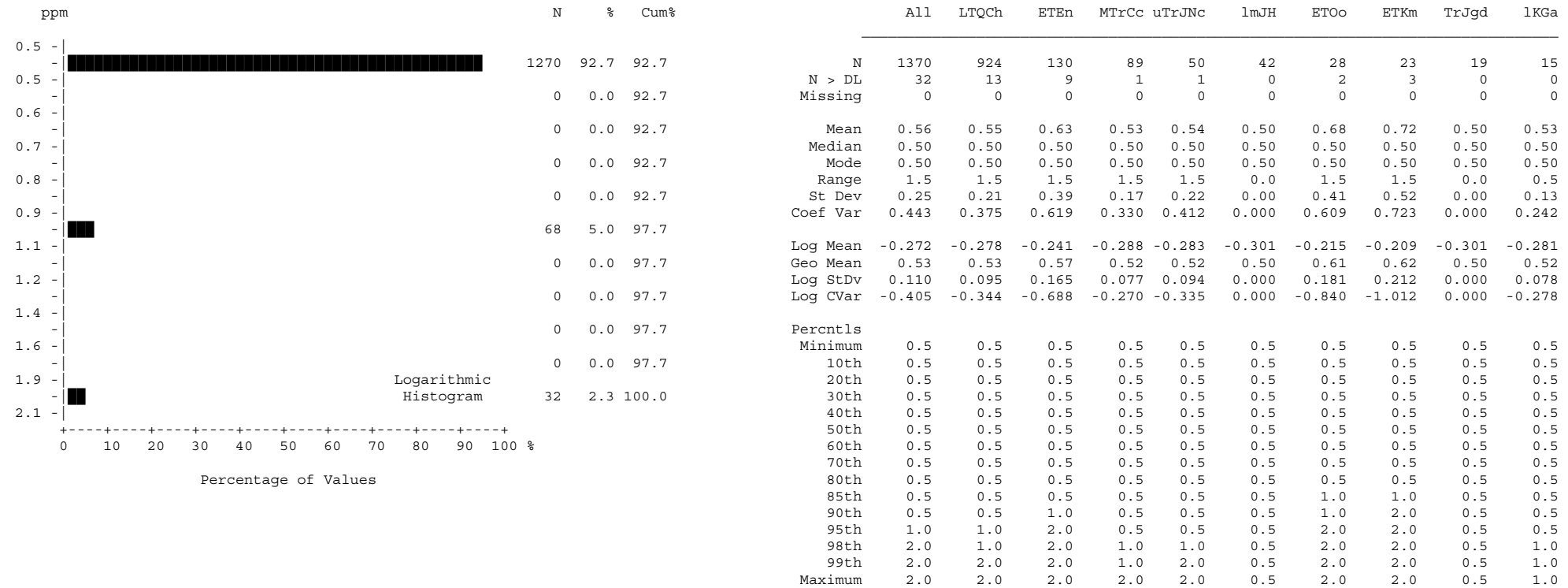


Cobalt (Co)
Sediment

number of values : 1370
 units : ppm
 detection limit : 5
 analytical method : INAA

Cobalt by INAA

Summary Statistics

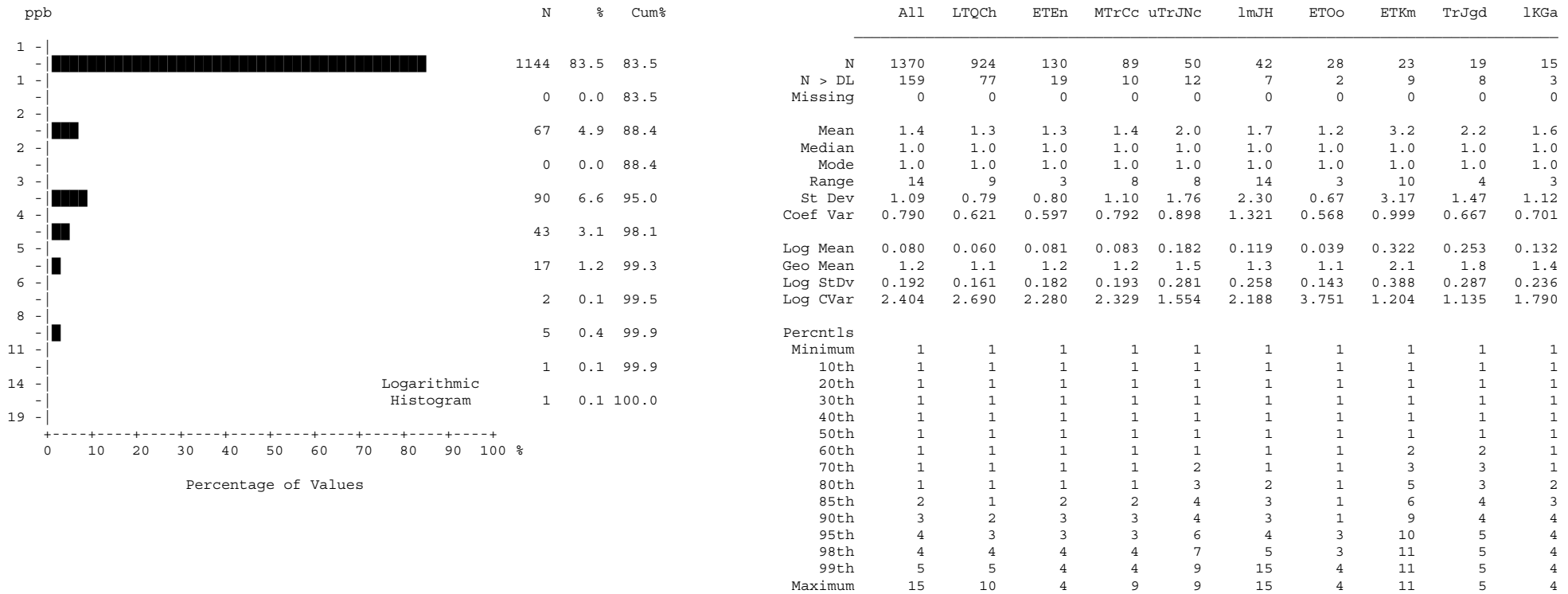


Europium (Eu)
Sediment

number of values : 1370
 units : ppm
 detection limit : 1
 analytical method : INAA

Europium by INAA

Summary Statistics

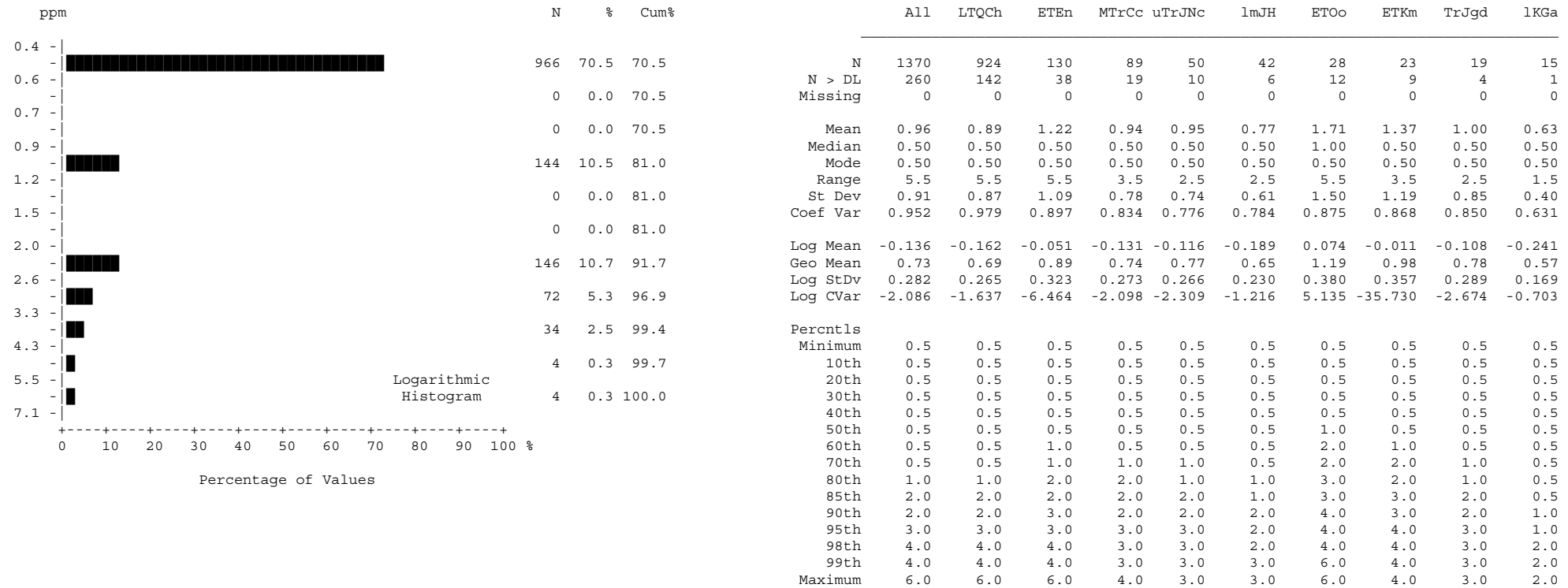


Gold (Au) Sediment

number of values : 1370
 units : ppb
 detection limit : 2
 analytical method : INAA

Gold by INAA

Summary Statistics

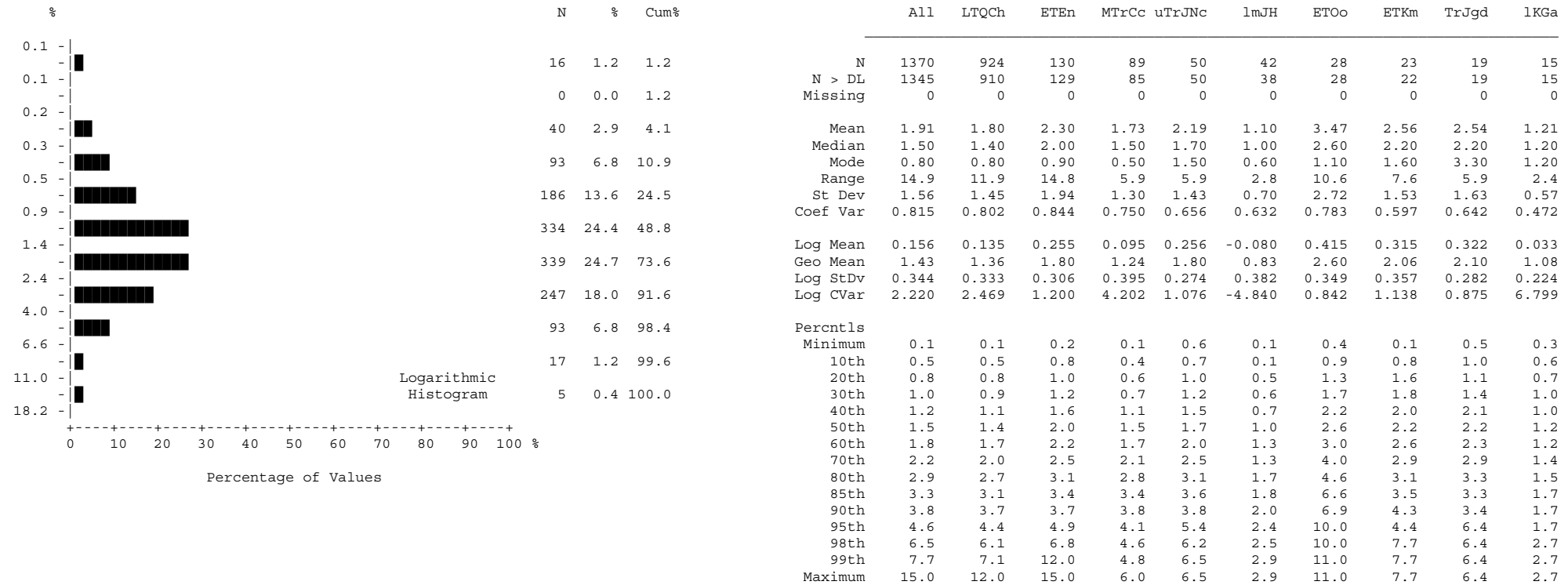


Hafnium (Hf) Sediment

number of values : 1370
 units : ppm
 detection limit : 1
 analytical method : INAA

Hafnium by INAA

Summary Statistics

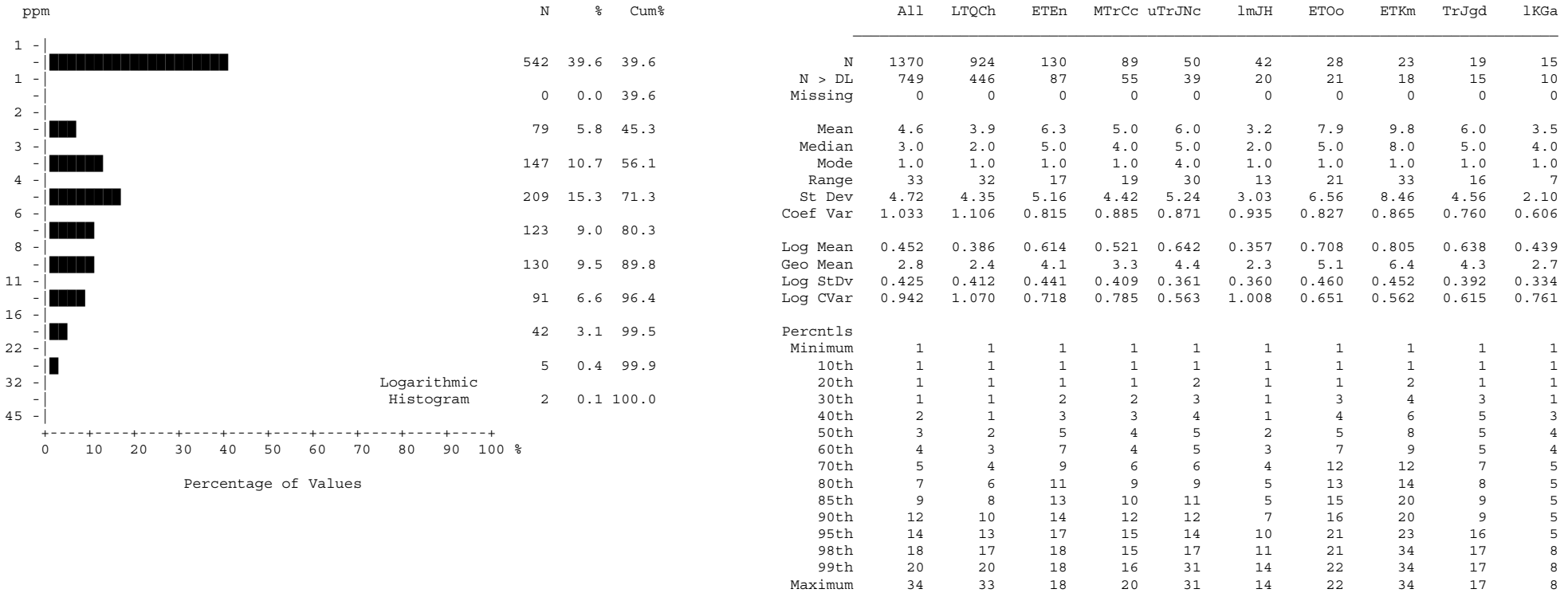


Iron (Fe)
Sediment

number of values : 1370
 units : %
 detection limit : 0.2
 analytical method : INAA

Iron by INAA

Summary Statistics

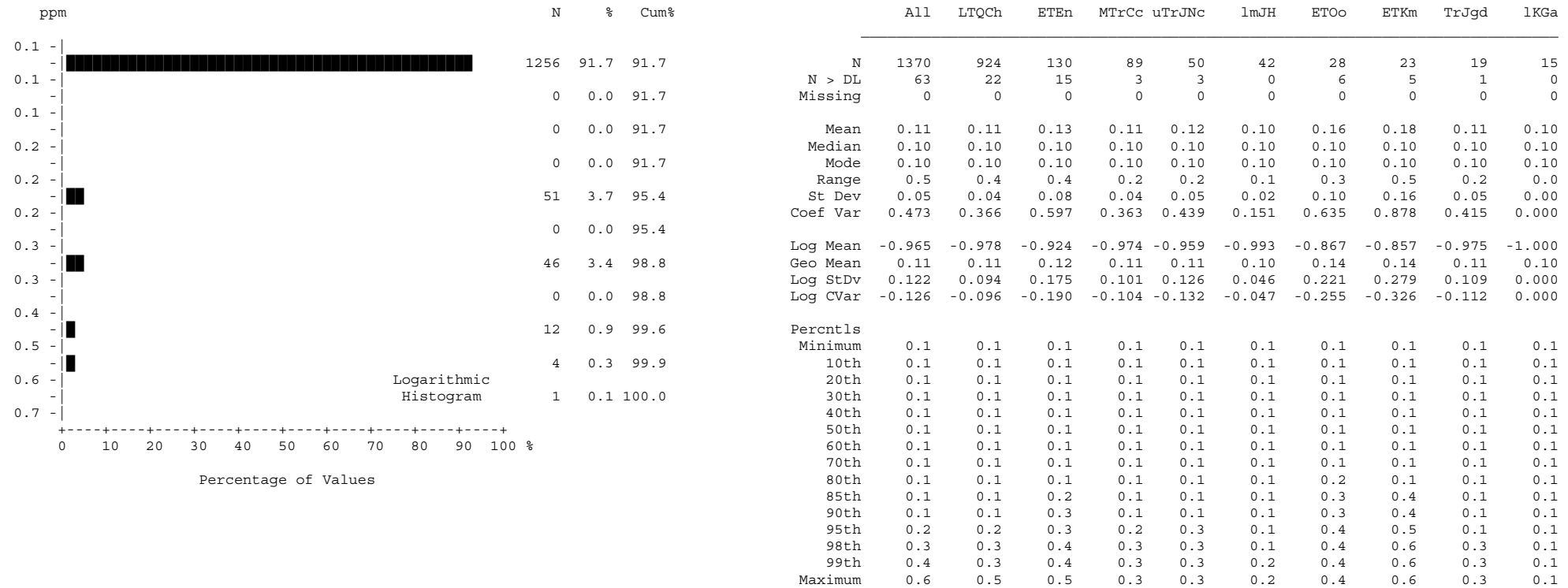


Lanthanum (La) Sediment

number of values : 1370
 units : ppm
 detection limit : 2
 analytical method : INAA

Lanthanum by INAA

Summary Statistics

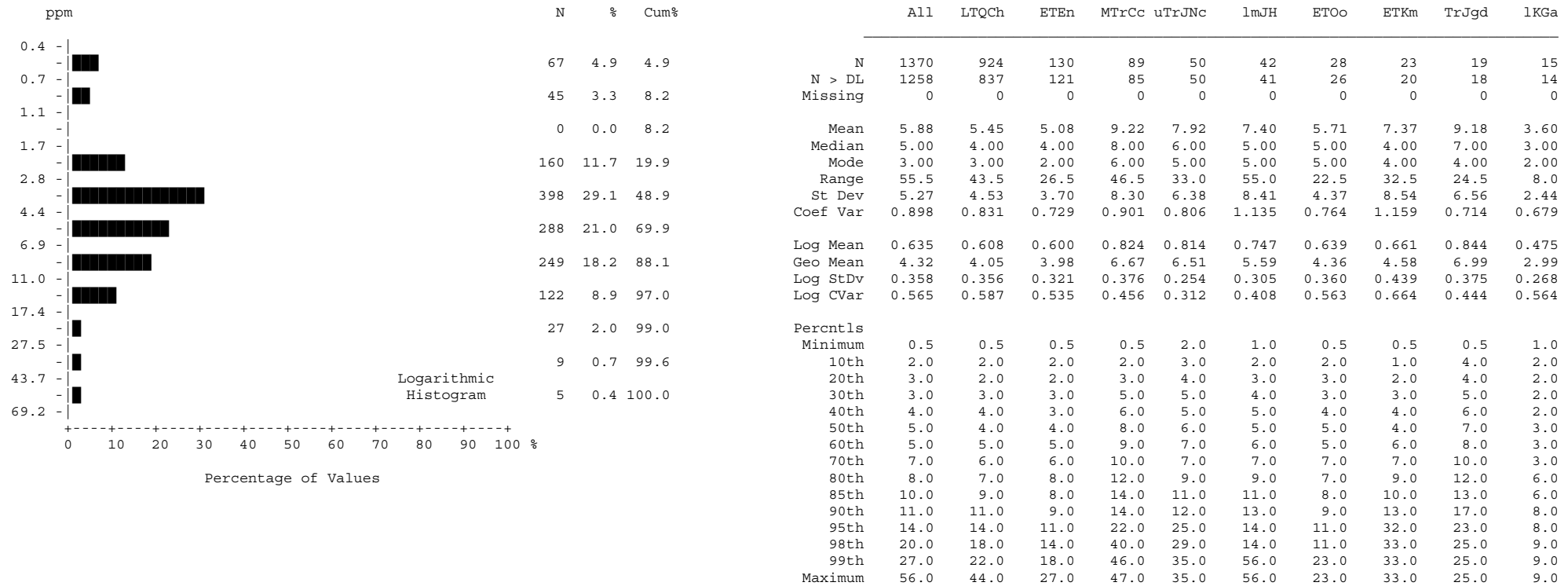


Lutetium (Lu) Sediment

number of values : 1370
 units : ppm
 detection limit : 0.2
 analytical method : INAA

Lutetium by INAA

Summary Statistics

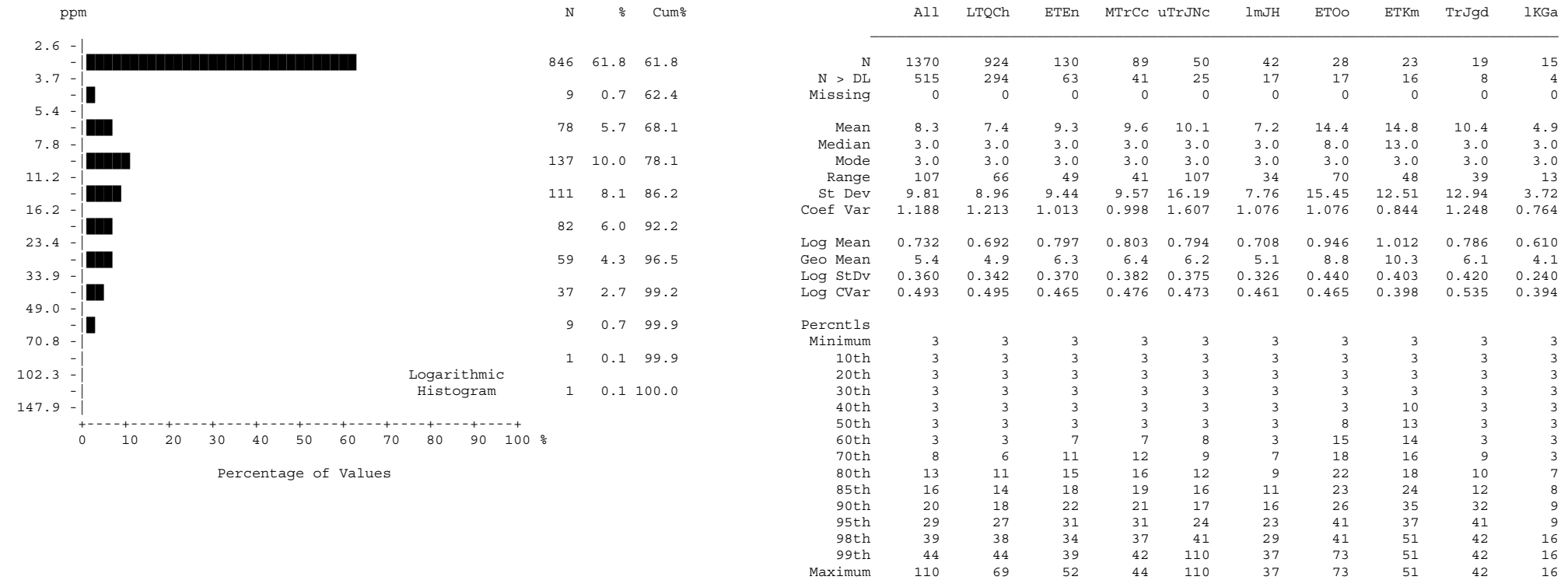


Molybdenum (Mo) Sediment

number of values : 1370
 units : ppm
 detection limit : 1
 analytical method : INAA

Molybdenum by INAA

Summary Statistics

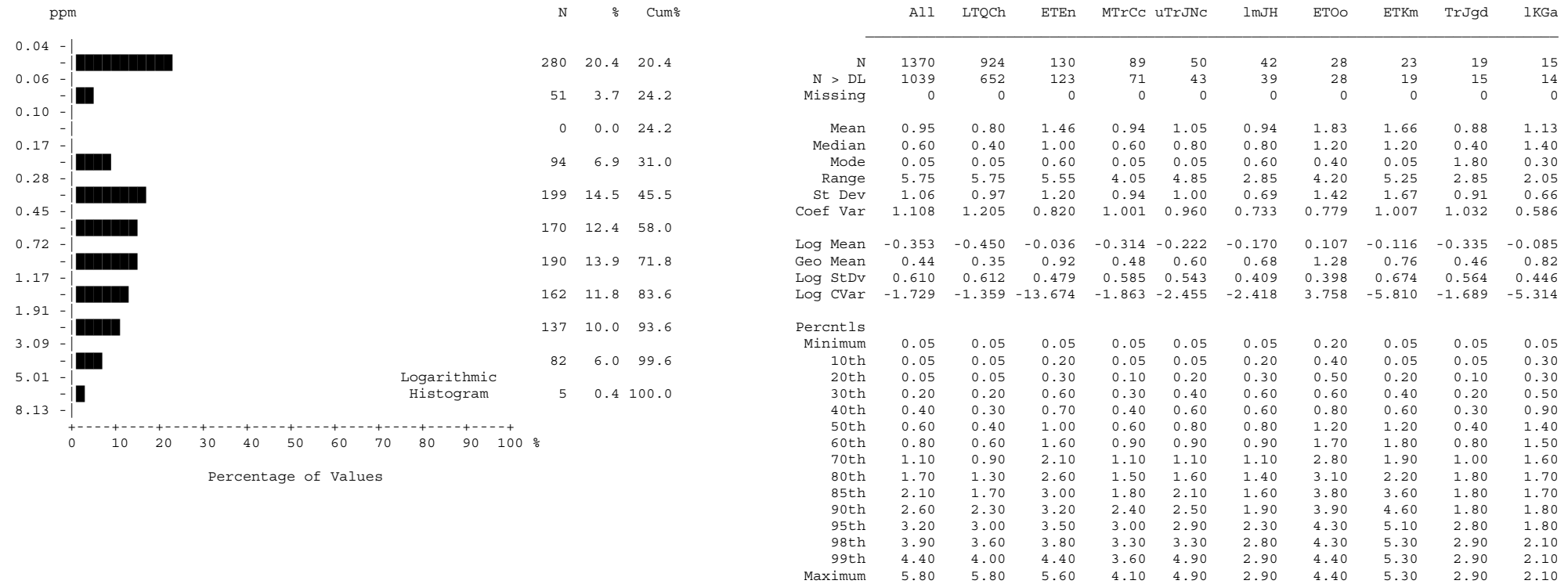


Rubidium (Rb)
Sediment

number of values : 1370
 units : ppm
 detection limit : 5
 analytical method : INAA

Rubidium by INAA

Summary Statistics

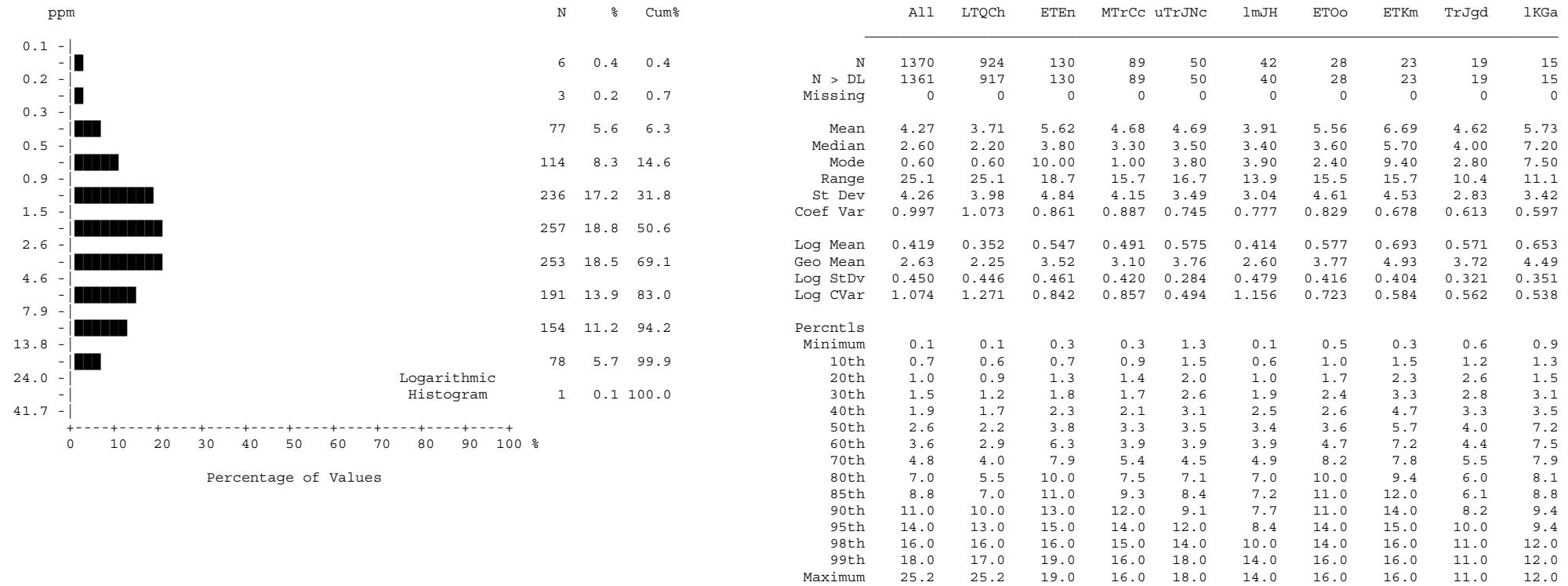


Samarium (Sm) Sediment

number of values : 1370
 units : ppm
 detection limit : 0.1
 analytical method : INAA

Samarium by INAA

Summary Statistics

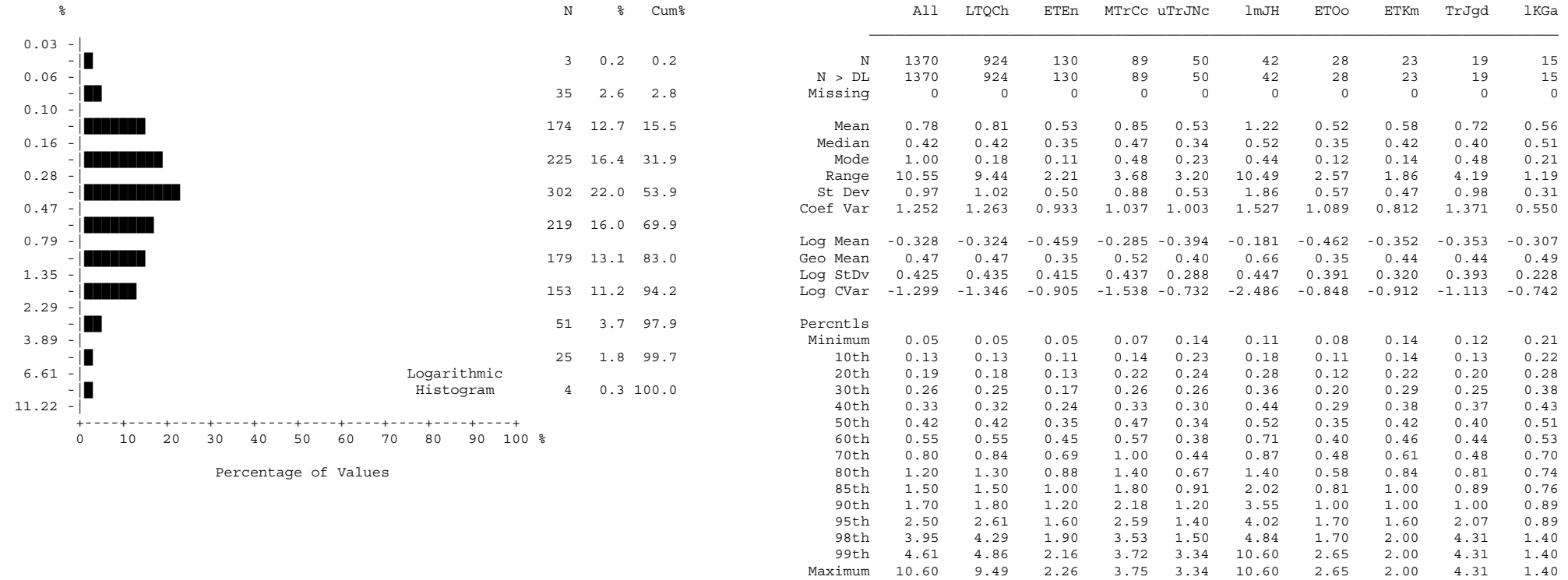


Scandium (Sc)
Sediment

number of values : 1370
 units : ppm
 detection limit : 0.2
 analytical method : INAA

Scandium by INAA

Summary Statistics

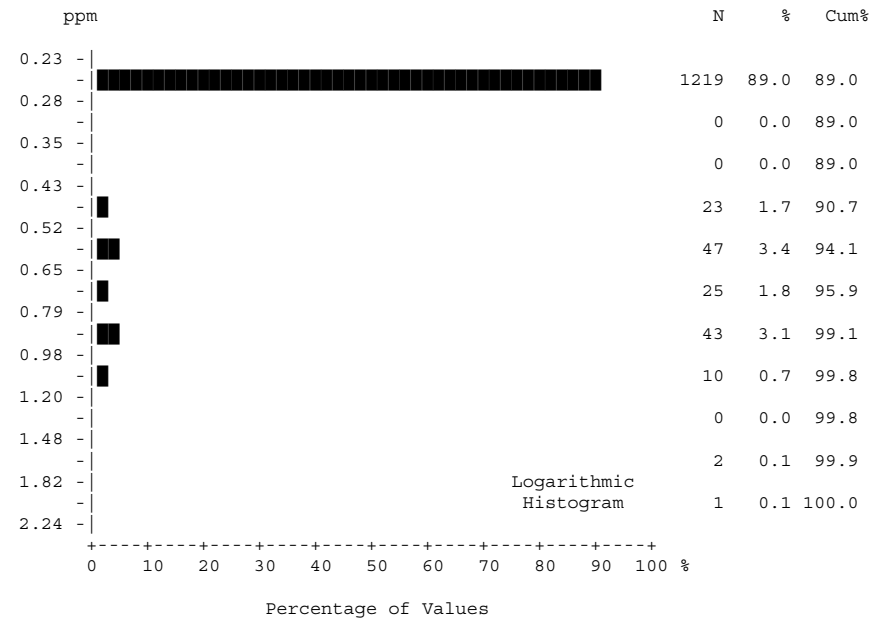


Sodium (Na) Sediment

number of values : 1370
 units : %
 detection limit : 0.02
 analytical method : INAA

Sodium by INAA

Summary Statistics



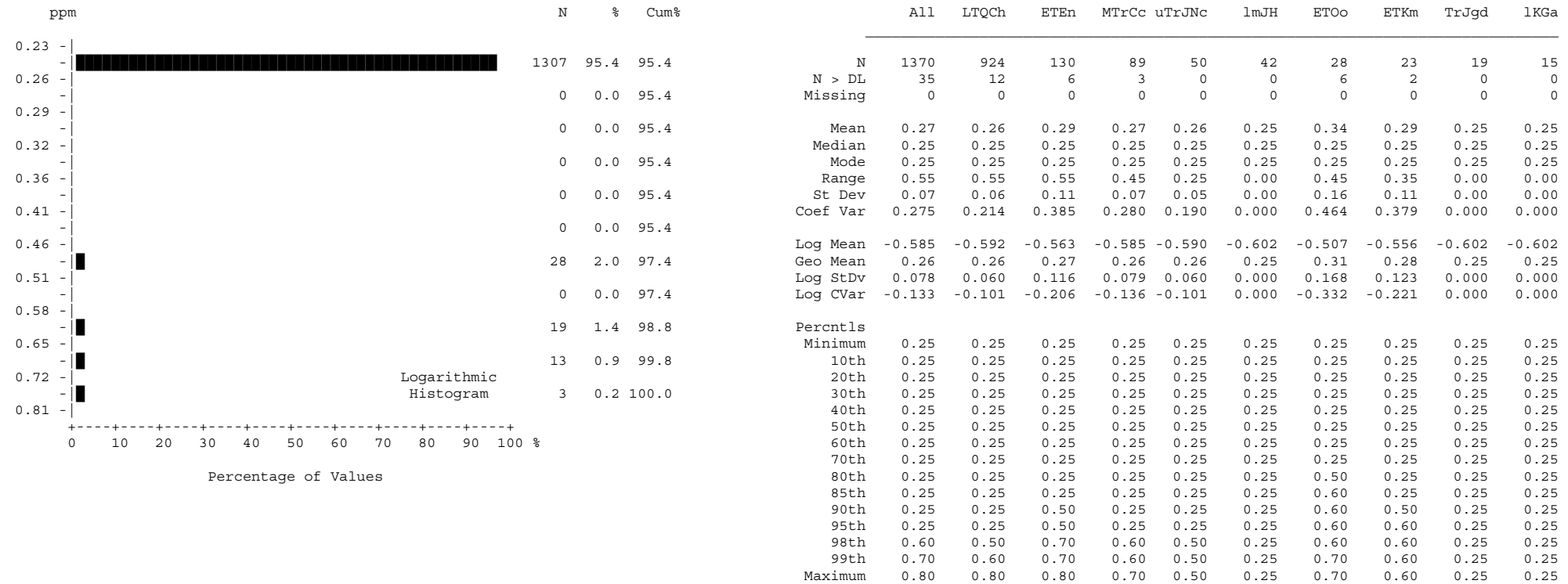
	All	LTQCh	ETEn	MTrCc	uTrJNc	lmJH	EToo	ETKm	TrJgd	lKGa
N	1370	924	130	89	50	42	28	23	19	15
N > DL	128	87	15	12	1	2	5	2	2	0
Missing	0	0	0	0	0	0	0	0	0	0
Mean	0.30	0.30	0.32	0.31	0.28	0.27	0.37	0.33	0.31	0.25
Median	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Mode	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Range	1.95	1.45	0.85	0.65	1.25	0.45	1.95	0.65	0.45	0.00
St Dev	0.16	0.16	0.18	0.15	0.18	0.09	0.38	0.17	0.14	0.00
Coef Var	0.545	0.525	0.577	0.483	0.643	0.323	1.025	0.506	0.443	0.000
Log Mean	-0.553	-0.553	-0.537	-0.542	-0.586	-0.582	-0.512	-0.522	-0.543	-0.602
Geo Mean	0.28	0.28	0.29	0.29	0.26	0.26	0.31	0.30	0.29	0.25
Log StDv	0.144	0.143	0.164	0.149	0.110	0.089	0.219	0.162	0.143	0.000
Log CVar	-0.260	-0.259	-0.305	-0.275	-0.188	-0.154	-0.429	-0.311	-0.264	0.000
Percentls										
Minimum	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
10th	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
20th	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
30th	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
40th	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
50th	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
60th	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
70th	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
80th	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
85th	0.25	0.25	0.25	0.25	0.25	0.25	0.60	0.50	0.25	0.25
90th	0.50	0.50	0.60	0.60	0.25	0.25	0.60	0.50	0.50	0.25
95th	0.70	0.70	0.80	0.60	0.25	0.25	0.70	0.60	0.60	0.25
98th	0.80	0.80	0.90	0.80	0.25	0.60	0.70	0.90	0.70	0.25
99th	0.90	0.90	1.10	0.80	1.50	0.70	2.20	0.90	0.70	0.25
Maximum	2.20	1.70	1.10	0.90	1.50	0.70	2.20	0.90	0.70	0.25

Tantalum (Ta)
Sediment

number of values : 1370
 units : ppm
 detection limit : 0.5
 analytical method : INAA

Tantalum by INAA

Summary Statistics

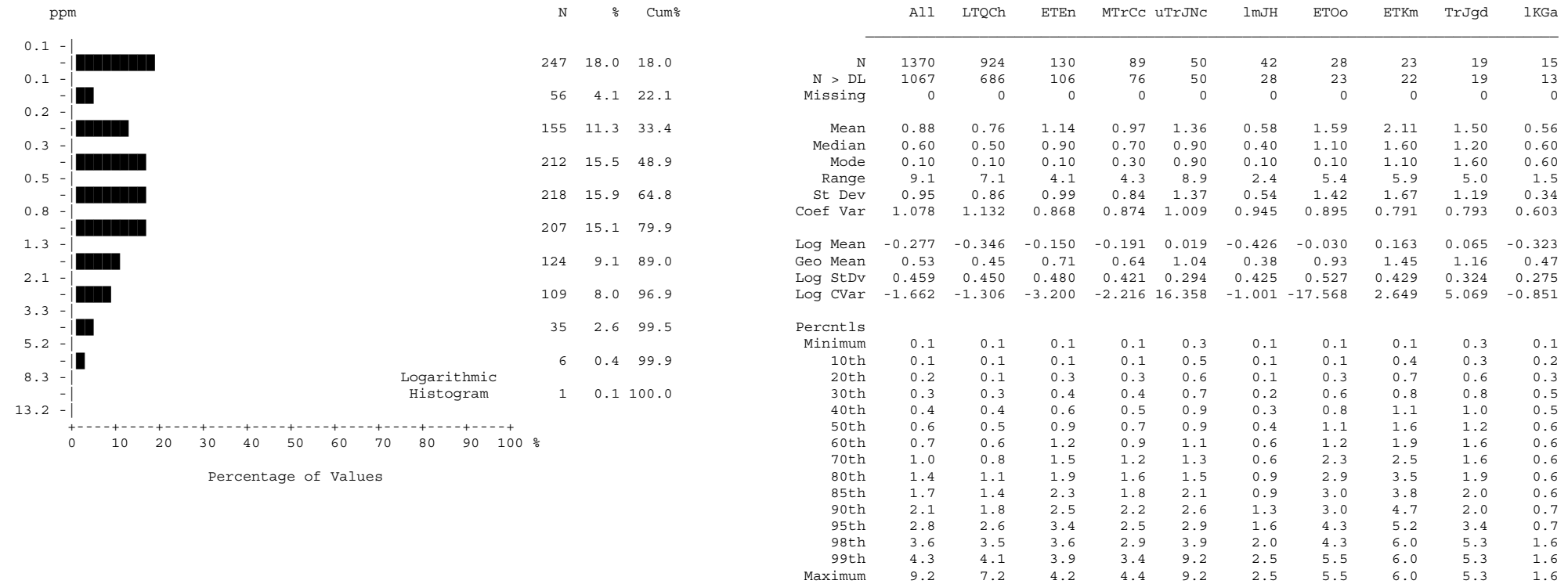


Terbium (Tb) Sediment

number of values : 1370
 units : ppm
 detection limit : 0.5
 analytical method : INAA

Terbium by INAA

Summary Statistics

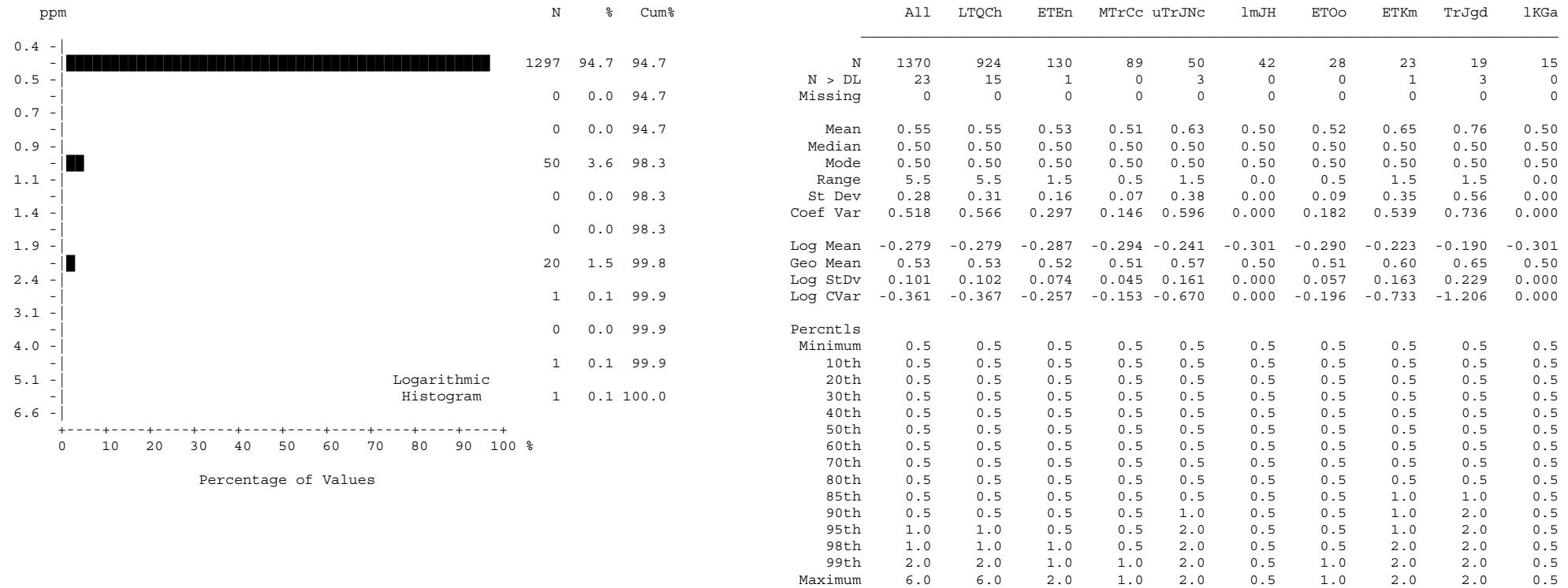


**Thorium (Th)
Sediment**

number of values : 1370
 units : ppm
 detection limit : 0.2
 analytical method : INAA

Thorium by INAA

Summary Statistics

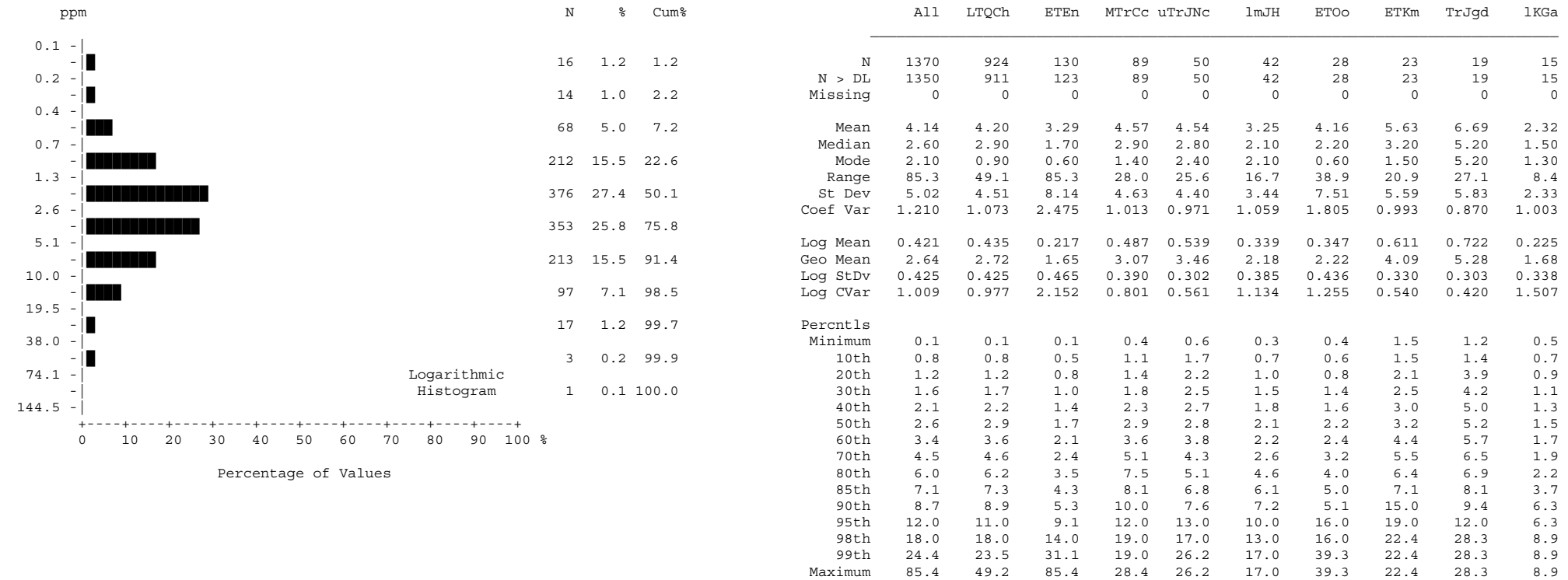


Tungsten (W)
Sediment

number of values : 1370
 units : ppm
 detection limit : 1
 analytical method : INAA

Tungsten by INAA

Summary Statistics

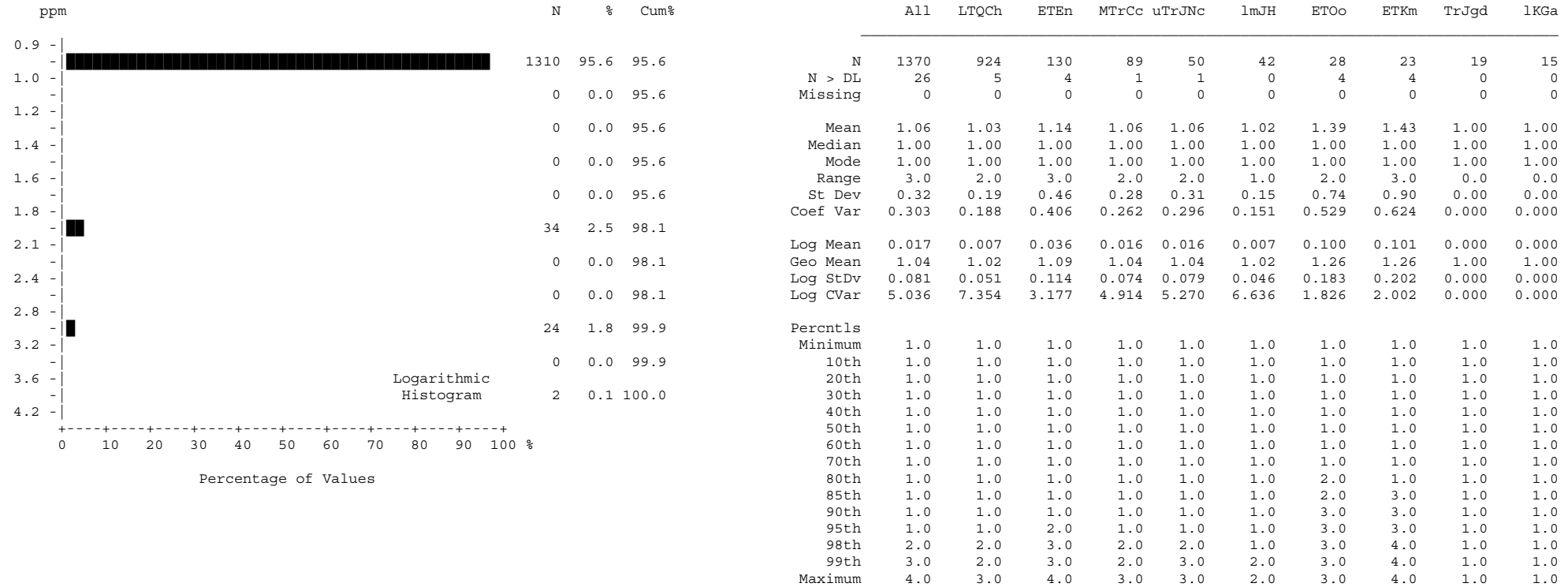


Uranium (U) Sediment

number of values : 1370
 units : ppm
 detection limit : 0.2
 analytical method : INAA

Uranium by INAA

Summary Statistics

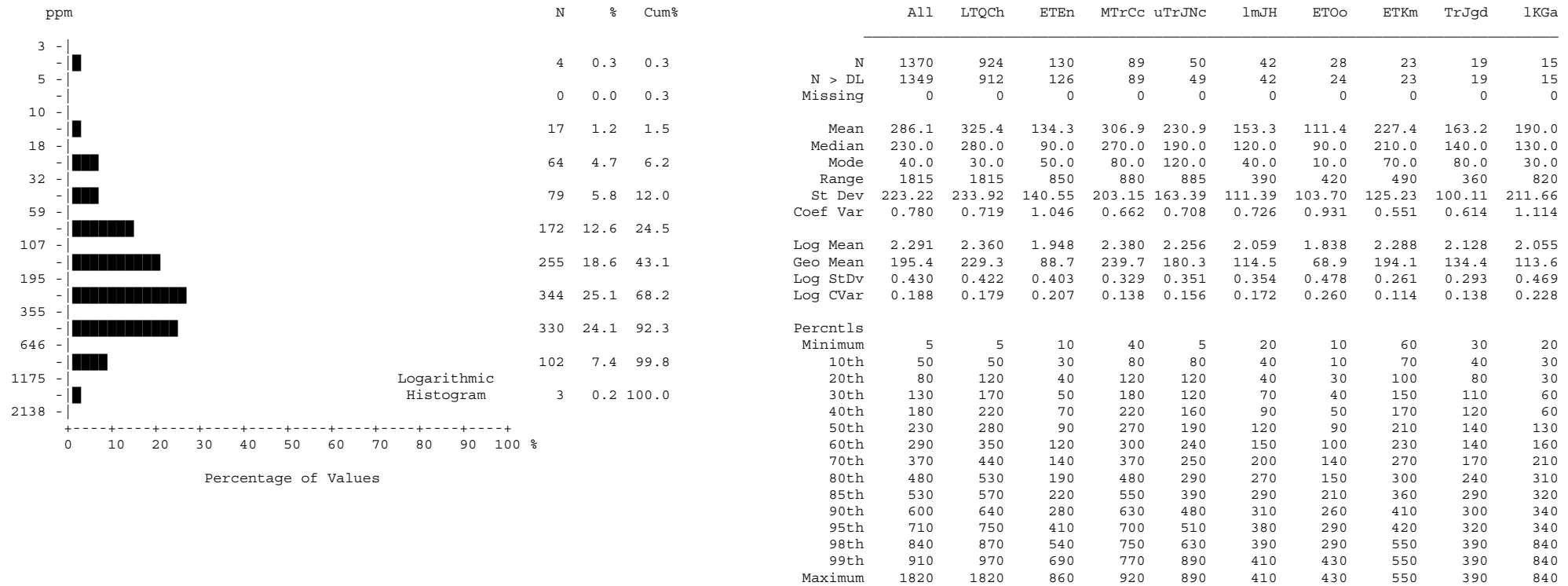


Ytterbium (Yb)
Sediment

number of values : 1370
units : ppm
detection limit : 2
analytical method : INAA

Ytterbium by INAA

Summary Statistics

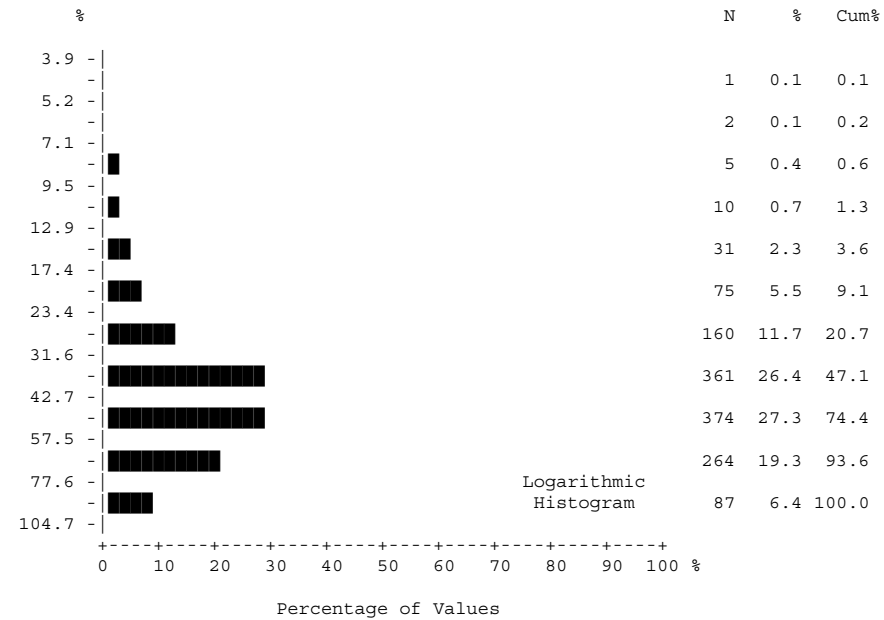


Fluorine (F)
Sediment

number of values : 1370
 units : ppm
 detection limit : 10
 analytical method : ION

Fluorine by ION

Summary Statistics



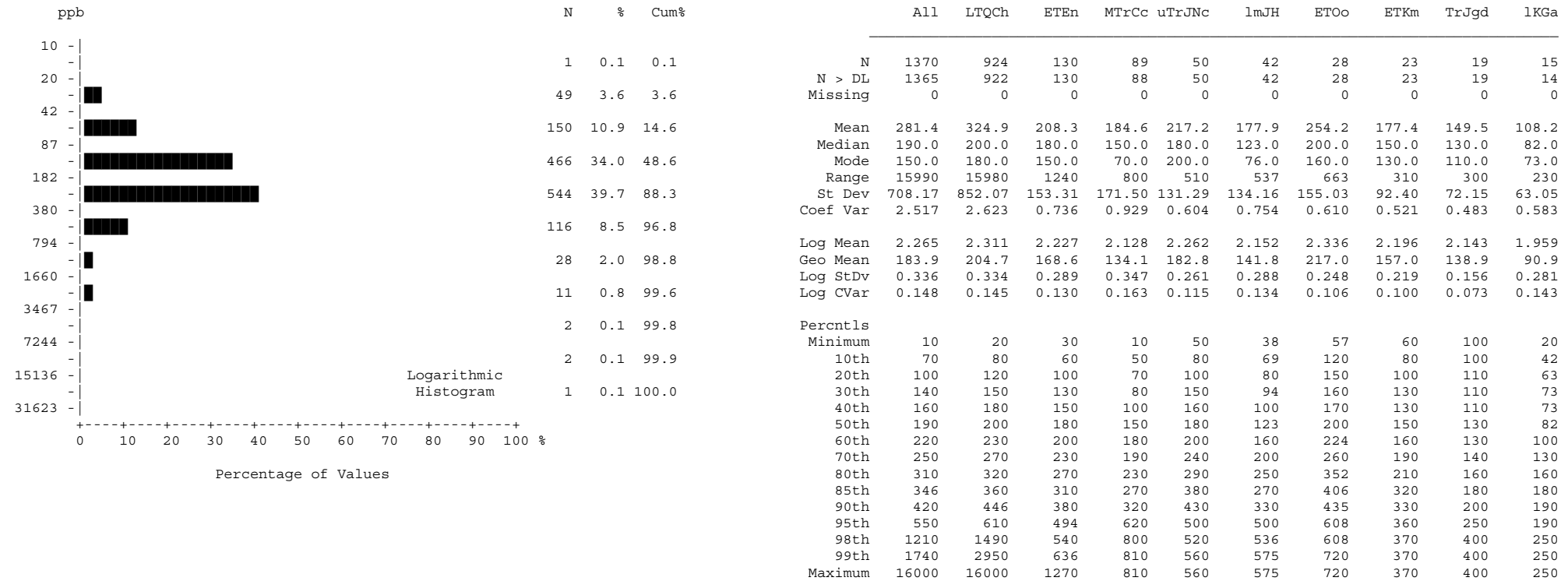
	All	LTQCh	ETEn	MTrCc	uTrJNc	lmJH	EToo	ETKm	TrJgd	lKGa
N	1370	924	130	89	50	42	28	23	19	15
N > DL	1370	924	130	89	50	42	28	23	19	15
Missing	0	0	0	0	0	0	0	0	0	0
Mean	46.29	45.13	55.98	42.10	52.16	47.11	50.09	49.78	50.48	46.76
Median	44.10	42.20	55.60	39.00	53.30	45.80	50.80	50.40	53.50	46.90
Mode	37.80	42.50	37.80	15.50	37.80	10.20	35.40	38.30	18.00	20.20
Range	86.5	85.6	81.3	74.7	70.7	70.4	62.1	59.1	55.2	61.2
St Dev	17.92	17.45	19.00	18.57	16.12	20.53	16.97	15.22	16.16	14.50
Coef Var	0.387	0.387	0.339	0.441	0.309	0.436	0.339	0.306	0.320	0.310
Log Mean	1.629	1.619	1.717	1.580	1.694	1.621	1.668	1.674	1.675	1.649
Geo Mean	42.54	41.62	52.07	38.00	49.43	41.75	46.56	47.26	47.36	44.55
Log StDv	0.188	0.183	0.179	0.203	0.150	0.235	0.185	0.151	0.172	0.145
Log CVar	0.116	0.113	0.104	0.129	0.089	0.145	0.111	0.090	0.103	0.088
Percentls										
Minimum	5.1	5.1	10.3	13.3	17.9	10.2	14.8	20.0	18.0	20.2
10th	24.4	24.9	27.7	17.5	32.3	17.7	23.6	22.6	22.8	26.1
20th	31.3	31.1	39.5	24.6	34.8	26.0	35.9	38.3	31.1	36.8
30th	35.8	35.0	45.4	30.4	41.6	32.9	39.6	41.9	46.2	42.5
40th	39.7	38.4	51.9	34.4	46.9	41.3	44.9	45.9	49.8	44.1
50th	44.1	42.2	55.6	39.0	53.3	45.8	50.8	50.4	53.5	46.9
60th	48.5	46.2	62.5	43.4	57.3	52.5	53.9	52.6	54.1	47.5
70th	54.3	51.7	67.2	48.6	60.9	59.2	60.8	53.0	60.2	50.5
80th	62.1	59.4	74.7	56.0	66.5	67.4	64.6	61.1	63.3	52.0
85th	67.2	64.5	77.2	68.6	70.6	68.4	67.3	65.4	64.2	54.6
90th	73.2	72.1	81.7	73.1	72.9	77.5	69.6	68.8	67.3	65.4
95th	79.5	79.6	84.2	75.2	75.2	78.5	75.9	73.3	68.3	65.4
98th	84.7	85.3	88.2	75.6	79.7	79.5	75.9	79.1	73.2	81.4
99th	88.3	88.5	89.0	76.3	88.6	80.6	76.9	79.1	73.2	81.4
Maximum	91.6	90.7	91.6	88.0	88.6	80.6	76.9	79.1	73.2	81.4

Loss on Ignition (LOI)
Sediment

number of values : 1370
units : %
detection limit : 0.1
analytical method : GRAV

Loss on Ignition by GRAV

Summary Statistics

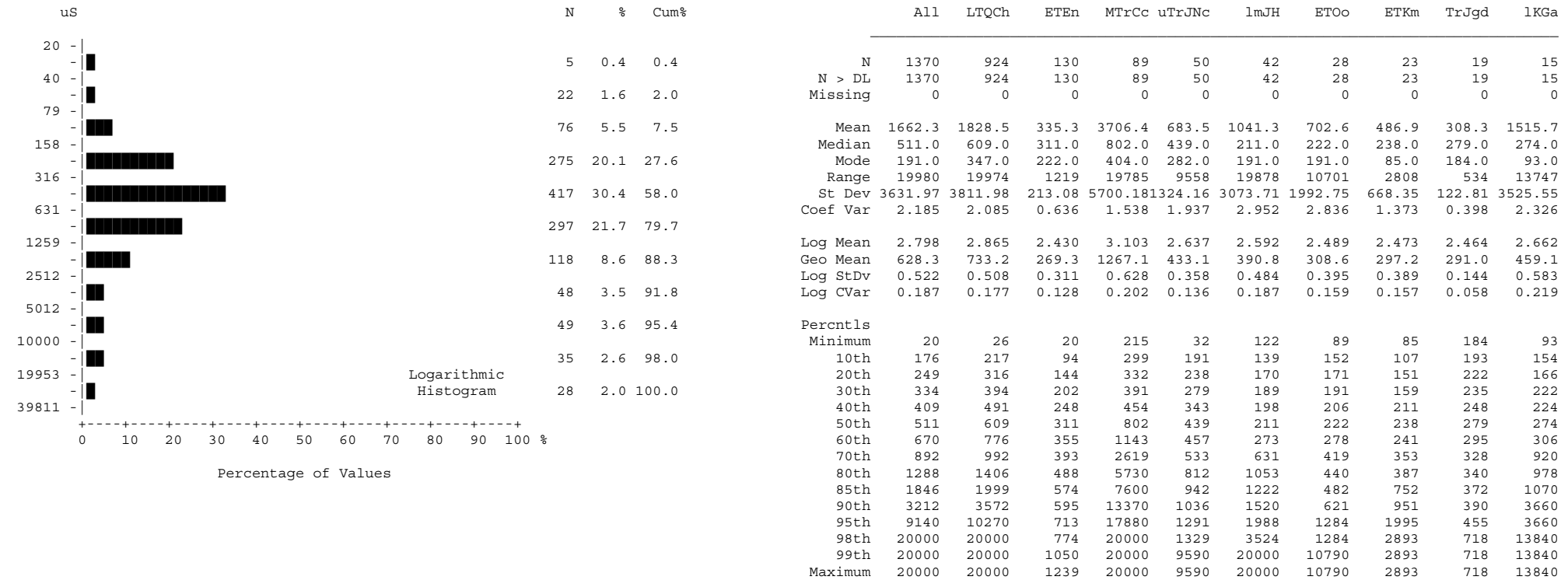


Fluoride (FW)
Water

number of values : 2177
 units : ppb
 detection limit : 10
 analytical method : ION

Fluoride by ION

Summary Statistics

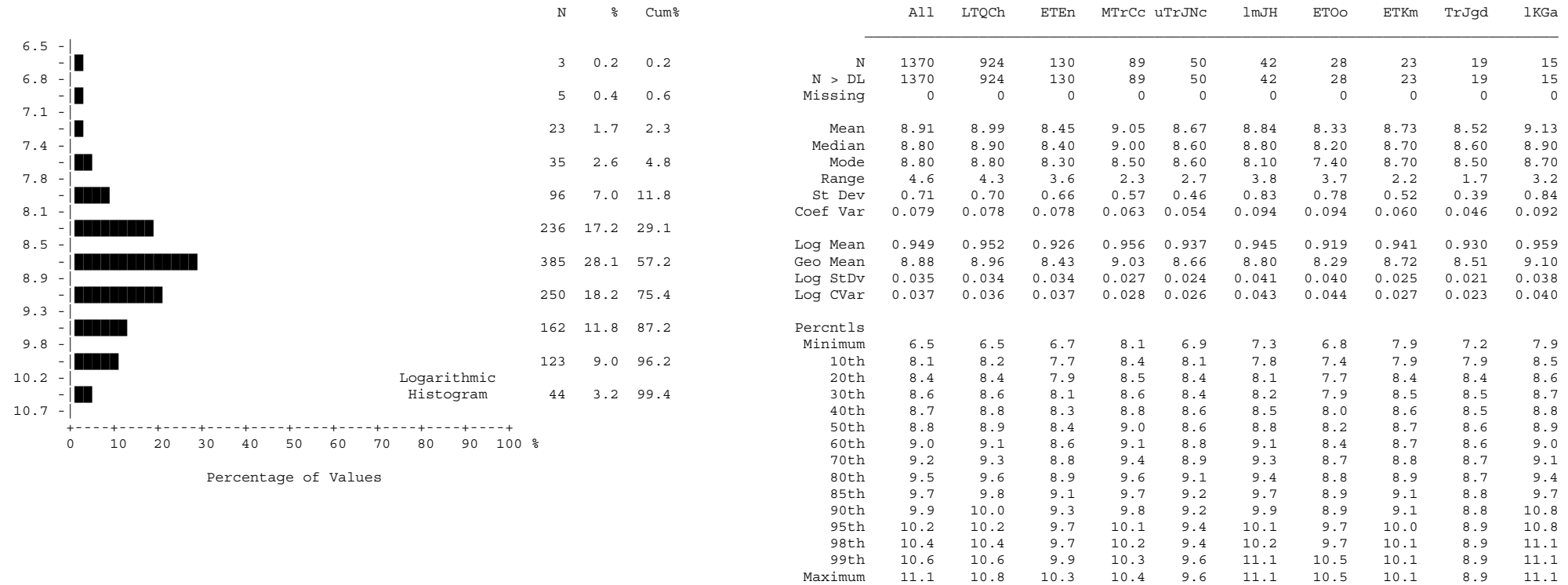


Conductivity (CND) Water

number of values : 1370
 units : uS
 detection limit : 1
 analytical method : ISE

Conductivity by ISE

Summary Statistics



pH
Water

number of values : 1370
 units :
 detection limit : 0.1
 analytical method : ISE

pH by ISE