



Geological Soil/Sediment

Soil/Sediment	Soil	Powder																									
		Al2O3	CaO	CO2	Na2O	P	SiO2	TiO2	As	Ba	Cd	Co	Cr	Cu	Hg	Mn	Ni	Pb	Sb	V	Zn	Others/Set Only	Size	Type	Alloy		
		10.03	0.89				74.09	0.36		(0.025)	0.0035	0.0017	0.0017	0.0017			0.0125	(0.001)		0.0094	0.0044	100µg	CRM	Tuff Ash Bearing Sandy Soil			
054-2498-83	%	3.36	0.27				91.24	0.29	0.0003	0.031	0.00001	0.0002	0.01	0.0009	0		0.001	0.0008		0.0014	0.001	100µg	CRM	Tuff Ash Bearing Sandy Soil			
054-2499-83	%	3.36	0.27				91.24	0.29	0.0017	0.031	0.00013	0.0045	0.01	0.01	0.00001		0.0007	0.0007		0.0014	0.014	100µg	CRM	Tuff Ash Bearing Sandy Soil			
054-2500-83	%	3.36	0.27				91.24	0.007	0.031	0.0004	0.013	0.01	0.026	0.00003			0.029	0.025		0.0014	0.43	100µg	CRM	Red Soil			
054-2501-83	%	17.01	0.17				59.18	1.56	0.0001	0.027	0.00001	0.014	0.018	0.0047	0.00001		0.0054	0.0023		0.018	0.0007	100µg	CRM	Red Soil			
054-2502-83	%	17.01	0.17				59.18	1.56	0.003	0.027	0.00206	0.0063	0.018	0.017	0.00003		0.016	0.015		0.018	0.007	100µg	CRM	Red Soil			
054-2503-83	%	17.01	0.17				59.18	1.56	0.005	0.027	0.00005	0.015	0.018	0.031	0.00004		0.038	0.028		0.018	0.061	100µg	CRM	Grey Soil			
054-2504-83	%	11.48	11.47				52.65	0.64	0.0013	0.05	0.00003	0.0012	0.0084	0.0034			0.0045	0.0017		0.009	0.007	100µg	CRM	Grey Soil			
054-2505-83	%	11.48	11.47				52.65	0.0029	0.05	0.00001	0.0057	0.0084	0.012				0.013	0.01		0.009	0.017	100µg	CRM	Grey Soil			
054-2506-83	%	11.48	11.47				52.65	0.64	0.006	0.05	0.00005	0.015	0.0084	0.029			0.032	0.008		0.009	0.009	100µg	CRM	Black Soil			
054-2507-83	%	9.81	1.6				71.49	9.81	0.0008	0.05	0.00001	0.0009	0.0083	0.025	0.00001		0.0032	0.0018		0.0072	0.0056	100µg	CRM	Black Soil			
054-2508-83	%	9.81	1.6				71.49	0.74	0.0021	0.05	0.00018	0.0046	0.0083	0.011	0.00002		0.011	0.009		0.0072	0.018	100µg	CRM	Black Soil			
054-2509-83	%	9.81	1.6				71.49	0.84	0.004	0.05	0.00045	0.013	0.0083	0.027	0.00004		0.03	0.026		0.0072	0.066	100µg	CRM	Rock Sediment			
054-3486-86	%	11.29	0.52				70.54	0.62	(0.7)	0.039	0.00009	0.0009	0.0076	0.025			0.0025	0.011		0.006	0.039	200µg	CRM				
071-5C02	%		0.3							966	9	16	7	0.082	0.072		8	21		64	124	200µg	CRM				
071-5C03	%		0.048							296	8	26	17	0.017	0.052		16	14		38	52	200µg	CRM				
071-5C04	%		0.09							111	81	22	0.03	0.06			26	16		90	94	100µg	CRM	B=C Horizon			
071-TL11	%	13.7	2.72				60.9	0.98	18	702	18	65	47				24	22	7.8	99	95	100µg	CRM	B=C Horizon			
071-TL12	%	16	1.27				60.8	0.88	26	540	15	74	150				32	31	0.8	77	130	100µg	CRM	B=C Horizon			
071-TL13	%	12.2	2.63				69.3	0.49	87	489	15	123	22				39	26	0.9	62	56	100µg	CRM				
071-TL14	%	14.4	1.25				65	0.81	111	395	8	53	237				17	50	1	67	70	50µg	CRM				
188-SVM	ppm								13.6	582	0.214	15.4	79.8	30	0.171	897	30.8	19.6	4.58	98.3	88.8	40µg	CRM	Calcareous Soil			
191-141	ppm									0.36	(9.2)	75	32.6	0.0568	-547	(30.9)	29.4				81.3	40µg	CRM	Light Sandy Soil			
191-142R	ppm									0.34	12.1	-113	69.7	0.067	970	64.5	40.2				-101	40µg	CRM	Sewage Sludge Amended Soil			
191-143R	ppm									71.8	12.3	-597	130.6	1.1	904	299	179.7				1055	70µg	CRM				
202-DC73382	%	14.18	1.72	1.12	735		62.5		33.5	590	4.3	14.2	62	21		1760	20.4	98	0.87	86	680	70µg	CRM				
202-DC73383	%	10.31	2.36	(0.97)	446		73.25		13.7	920	0.071	8.7	47	15		510	19.4	20.2	1.3	62	42.3	70µg	CRM				
202-DC73384	%	12.24	1.27	(0.13)	300		76.72		4.4	1210	0.059	5.5	32	11.4	60	304	12.2	26	0.45	36.5	31.4	70µg	CRM				
202-DC73385	%	23.45	0.26	(0.12)	695		50.95		58	213	0.35	22.3	370	40.5	590	1420	64.2	58.5	6.3	247	210	70µg	CRM				
202-DC73386	%	21.58	(0.095)	(0.096)	390		52.57		412	296	0.45	12.3	118	144	290	1360	40	552	35.4	166	494	70µg	CRM				
202-DC73387	%	21.23	0.22	(0.084)	303		56.93		220	118	0.13	7.6	75	390	72	1450	53	314	60	130	96.6	70µg	CRM				
202-DC73388	%	29.26	0.16	(0.11)	1190		32.69		4.8	180	0.08	97	410	97	61	1780	276	13.6	0.42	249	142	70µg	CRM				
202-DC73389	%	11.92	8.27	5.97	775		58.61		12.7	480	0.13	12.7	68	24.3	17	650	31.5	21	1.04	81.4	68	50µg	CRM				
202-DC73401	%	12.91	1.35		318		73.28		2.9	693	0.068	4.9	26.4	4.9	0.015	262	9.3	16.3	0.21	34.7	34.2	50µg	CRM				
202-DC73402	%	14.55	1.42		439		65.64		10.5	623	0.09	12.8	66	23.2	0.066	708	27.6	29.2	0.93	82.7	72.8	50µg	CRM				
202-DC73403	%	12.04	4.33		1400		47.96		205	550	28.2	11.6	59.6	65.4	0.15	9700	24.2	2700	9.2	88.5	3800	25µg	CRM				
262-SOIL7	ppm								13.4	-159	(1.3)	8.9	60	11	(0.04)	631	-26	60	1.7	66	104	50µg	CRM	San Joaquin Soil			
331-2709	%		0.008				0.00177		0.0068	0.00004	0.00134	0.013	0.00344	0.00114	0.0538	0.0088	0.00089	0.00079	0.0112	0.0106		50µg	CRM	Montana Soil			
331-2710	%		0.106				0.0626		0.0707	0.00218		2.95	0.00326	1.01	0.00014	0.5532	0.00384	0.00766	0.6925			50µg	CRM				
331-2711	%		0.086				0.00417		0.0105	0.07226	0.00417		0.0114		0.1162	0.00194						100µg	CRM	Diatomaceous Earth Filter Cake			
Soil/Sediment	Soil	Toxic Elements																									
		Al	As	Cd	Co	Cr	Cu	Fe	Hg	Mn	Ni	Pb	Se	V	Zn	Others/Set Only	Size	Type	Alloy								
095-004-100	ppm				-140		-20		-3	-90	-140	11871		-28	-8500		15µg	CRM									
202-DC78302	%	7.11	3.8	0.081	13.1	60.8	24.6		3.34	(0.018)	677	31.1	14.2	0.16	77.5	58	25µg	CRM	Industrial Soil								
Soil/Sediment	Soil	Polycyclic																									
		Fluoranthene																									
PCB	mg/kg	2,2',3,3',4,4'-Hexachlorodibiphenyl		2,2',3,3',4,4',5-Hexachlorodibiphenyl		2,2',3,4,4',5,5'-Heptachlorodibiphenyl		2,2',3,4',4',5,6-Hexachlorobiphenyl		2,2',4,4',5'-Pentachlorobiphenyl		2,2',4,4',5',6-Hexachlorobiphenyl		2,3,3',4,4',5-Hexachlorobiphenyl		2,3,3',4,4',5'-Pentachlorobiphenyl		Others/Set Only		Size	Type	Alloy					
191-481	mg/kg	9.1		52		124		37		7		137		9.4						5µg	CRM	Paint					
331-2586	%	6.652	8.7	0.0413	2.218	2.71	0.0058		0.0301	(0.0081)	5.161	0.36	0.976	0.0029	1.707	0.1	0.468				29.15	0.0084		80g (5)	RM	Coal Site	
331-2587	%	5.86	13.7	0.0568	0.927	1.92	0.0092		0.0092	(0.016)	2.813	0.29	1.583	0.669	0.0451	1.27	(0.0036)	0.097	0.3242		33.13	0.0126		50µg	CRM	Brick Works	
651-6135	ppm		70		305	2.34			455	167	4.75	1.63	0.94	390	0.17	291		411		0.0046		6.63	0.013		80g (5)	RM	Coal Site
651-6138	ppm		34.5		142				439	132	10.5	1.5	1.63	390	0.17	291		411		3.56		54.6	456	80g (5)	CRM	Gas Works	
651-6144	ppm		14.9		118				118	71	0.53					27		196		1.8	0.71	38	192	80g (5)	CRM	Gas Works	