

AFPC Rock Check Program

Sample No. 2017-05

	Method #	# of Anal.	Grand Median	Std Dev
Moisture				
Ground Sample AFPC IX.2.A	101	29	0.62	0.104
Other (describe)	102	3	0.67	0.091
Method Group 100		32	0.62	0.11
P₂O₅				
Gravimetric AFPC IX.3.B	201	4	27.72	0.208
ICP-induced coupled plasma AFPC IX.3.D	202	3	28.00	0.172
Photometric-AFPC IX.3.C	203	21	28.11	0.209
Automated -AOAC 978.01-15th	204	11	27.98	0.321
Other(describe)	205	4	27.76	0.436
Method Group 200		43	28.04	0.27
P₂O₅ (on Dry Basis)				
Gravimetric AFPC IX.3.B	211	2	27.83	0.042
ICP-induced coupled plasma AFPC IX.3.D	212	3	28.18	0.190
Photometric-AFPC IX.3.C	213	13	28.22	0.227
Automated -AOAC 978.01-15th	214	11	28.18	0.378
Other(describe)	215	3	28.21	0.270
Method Group 210		32	28.18	0.29
Fe₂O₃				
Atomic Absorption-AFPC IX.6.B	301	1	0.39	0.000
ICP-induced coupled plasma-AFPC IX.6.C	302	30	0.55	0.057
Other(describe)	303	8	0.59	0.065
Method Group 300		39	0.56	0.06
Al₂O₃				
Atomic Absorption-AFPC IX.7.B	401	1	0.56	0.000
ICP-induced coupled plasma-AFPC IX.7.C	402	31	0.87	0.099
Other(describe)	403	7	1.51	0.401
Method Group 400		39	0.87	0.17
MgO				
Atomic Absorption-AFPC IX.8.A	501	3	0.47	0.060
ICP-induced coupled plasma-AFPC IX.8.B	502	29	0.45	0.022
Other(describe)	503	7	0.51	0.060
Method Group 500		39	0.46	0.03
Acid Insoluble				
Insoluble-AFPC IX.4.A	601	23	12.72	0.403
Other(describe)	602	6	12.45	4.143
Method Group 600		29	12.61	0.41
Carbon Dioxide				
Gasometric-AFPC IX.13.B	651	14	4.05	0.198
Other(describe)	652	13	3.87	2.531
Method Group 650		27	4.00	0.32
CaO				
Gravimetric sulfate-AFPC IX.12.A	701			
ICP-induced coupled plasma-AFPC IX.12.D	702	24	42.58	0.539
Ceric Sulfate volumetric-AFPC IX.12.B	703			
Permanganate	704			
EDTA Volumetric-AFPC IX.12.C	705	2	43.77	0.433
Other(describe)	706	12	42.81	0.598
Method Group 700		38	42.71	0.65
CaO (on Dry Basis)				
Gravimetric sulfate-AFPC IX.12.A	711			
ICP-induced coupled plasma-AFPC IX.12.D	712	16	42.59	0.501
Ceric Sulfate volumetric-AFPC IX.12.B	713			
Permanganate	714			
EDTA Volumetric-AFPC IX.12.C	715	2	44.09	0.411
Other(describe)	716	10	43.05	0.497
Method Group 710		27	42.93	0.59

	Method #	# of Anal.	Grand Median	Std Dev
Fluorine, F				
Volumetric-AFPC IX.14.A	801			
Specific Ion Electrode-AFPC IX.14.B	802	23	2.90	0.118
Other (describe)	803	6	2.89	0.132
Method Group 800		29	2.90	0.13
Arsenic, As				
Atomic Absorption	911	1	2.6	0.00
ICP-induced coupled plasma-AFPC IX.15.B	912	11	11.7	1.12
Other(describe)	913	4	9.3	0.47
Method Group 900		16	10.5	2.08
Cadmium, Cd				
Atomic Absorption-AFPC IX.11.A	921	1	88	0.0
ICP-induced coupled plasma-AFPC IX.11.B	922	17	83	7.1
Other(describe)	923	4	82	2.7
Method Group 910		22	83	6.9
Cobalt, Co				
Atomic Absorption-AFPC IX.16.B	931	1	1	0.0
ICP-induced coupled plasma-AFPC IX.16.A	932	13	1	0.5
Other(describe)	933	4	1	0.9
Method Group 920		18	1	0.5
Mercury, Hg				
Atomic Absorption-AFPC IX.16.B	941			
ICP-induced coupled plasma-AFPC IX.16.A	942	3	0.3	0.11
Other(describe)	943	2	0.3	0.25
Method Group 930		5	0.3	0.22
Molybdenum, Mo				
Atomic Absorption-AFPC IX.16.B	951	1	13	0.0
ICP-induced coupled plasma-AFPC IX.16.A	952	11	14	1.5
Other(describe)	953	2	16	0.2
Method Group 940		14	14	2.0
Nickel, Ni				
Atomic Absorption-AFPC IX.16.B	961	1	97	0.0
ICP-induced coupled plasma-AFPC IX.16.A	962	13	102	13.4
Other(describe)	963	4	99	2.9
Method Group 950		18	100	5.2
Lead, Pb				
Atomic Absorption-AFPC IX.16.B	971	1	6	0.0
ICP-induced coupled plasma-AFPC IX.16.A	972	15	8	2.8
Other(describe)	973	4	4	1.9
Method Group 960		20	7	3.1
Selenium, Se				
Atomic Absorption-AFPC IX.16.B	981			
ICP-induced coupled plasma-AFPC IX.16.A	982	2	19	0.7
Other(describe)	983	2	20	1.5
Method Group 970		4	19	1.8
Zinc, Zn				
Atomic Absorption-AFPC IX.16.B	991	1	901	0
ICP-induced coupled plasma-AFPC IX.16.A	992	13	929	99
Other(describe)	993	4	886	97
Method Group 980		18	928	98

101 Ground Sample AFPC IX.2.A			
Lab	%	H ₂ O	
266	0.80	-1.723	
24	0.73	-1.053	
Std Dev	0.72	-1.000	
13	0.70	-0.718	
21	0.68	-0.574	
24	0.68	-0.574	
21	0.66	-0.383	
35	0.65	-0.287	
9	0.65	-0.239	
10	0.64	-0.191	
10	0.64	-0.191	
13	0.64	-0.191	
26	0.64	-0.191	
49	0.63	-0.096	
75	0.63	-0.048	
55	0.62	0.000	
Median	0.62	0.000	
9	0.61	0.096	
75	0.61	0.144	
6	0.60	0.191	
15	0.58	0.431	
6	0.56	0.622	
15	0.56	0.622	
Std Dev	0.52	1.000	
61	0.51	1.101	
61	0.49	1.244	
275	0.34	2.680	
275	0.32	2.919	
20	0.27	3.350	
77	0.23	3.733	
35	0.16	4.403	
77	0.15	4.499	

102 Other (describe)			
Lab	%	H ₂ O	
69	0.72	-0.547	
49	0.67	0.000	
Median	0.67	0.000	
Std Dev	0.57	1.000	
20	0.47	2.133	

201 Gravimetric AFPC IX.3.B			
Lab	%	P2O5	
65	28.10	-1.839	
Std Dev	27.93	-1.000	
77	27.82	-0.493	
Median	27.72	0.000	
56	27.62	0.493	
55	27.60	0.565	

202 ICP-induced coupled plasma AFPC IX.3.D			
Lab	%	P2O5	
266	28.39	-2.272	
Std Dev	28.17	-1.000	
10	28.00	0.000	
Median	28.00	0.000	
10	27.93	0.408	

203 Photometric-AFPC IX.3.C			
Lab	%	P2O5	
26	29.01	-4.307	
51	28.33	-1.077	
Std Dev	28.31	-1.000	
45	28.31	-0.981	
51	28.28	-0.838	
69	28.28	-0.814	
35	28.20	-0.455	
78	28.17	-0.311	
275	28.16	-0.263	
78	28.14	-0.168	
275	28.12	-0.072	
9	28.11	0.000	
Median	28.11	0.000	
9	28.10	0.048	
45	28.05	0.263	
35	28.04	0.311	
92	27.92	0.885	
92	27.92	0.885	
49	27.90	0.981	
Std Dev	27.90	1.000	
6	27.82	1.388	
6	27.79	1.508	
61	27.41	3.326	
61	26.72	6.628	

204 Automated -AOAC 978.01-15th			
Lab	%	P2O5	
15	29.84	-5.812	
15	29.75	-5.531	
Std Dev	28.30	-1.000	
13	28.26	-0.888	
13	28.21	-0.732	
24	28.09	-0.343	
24	27.98	0.000	
Median	27.98	0.000	
75	27.93	0.140	
77	27.89	0.265	
21	27.72	0.795	
21	27.71	0.826	
75	27.71	0.841	

205 Other(describe)			
Lab	%	P2O5	
20	28.16	-0.924	
49	28.02	-0.603	
Median	27.76	0.000	
20	27.50	0.603	
56	27.40	0.821	

211 Gravimetric AFPC IX.3.B				
Lab	%	P2O5	dB	
77	27.88	-1.340		
Std Dev	27.87	-1.000		
Median	27.83	0.000		
Std Dev	27.79	1.000		
55	27.77	1.340		

212 ICP-induced coupled plasma AFPC IX.3.D				
Lab	%	P2O5	dB	
266	28.62	-2.309		
Std Dev	28.37	-1.000		
10	28.18	0.000		
Median	28.18	0.000		
10	28.11	0.371		

213 Photometric-AFPC IX.3.C				
Lab	%	P2O5	dB	
26	29.19	-4.294		
69	28.48	-1.156		

Std Dev	28.44	-1.000		
35	28.38	-0.742		
9	28.29	-0.315		
9	28.27	-0.227		
275	28.25	-0.145		
275	28.22	0.000		
Median	28.22	0.000		
35	28.08	0.576		
49	28.08	0.612		
Std Dev	27.99	1.000		
6	27.98	1.025		
6	27.95	1.192		
61	27.54	2.952		
61	26.86	5.985		

214 Automated -AOAC 978.01-15th				
Lab	%	P2O5	dB	
15	30.01	-4.844		
15	29.92	-4.589		
Std Dev	28.56	-1.000		
13	28.46	-0.733		
13	28.39	-0.558		
24	28.28	-0.255		
24	28.18	0.000		
Median	28.18	0.000		
75	28.10	0.213		
77	27.93	0.658		
21	27.90	0.731		
21	27.90	0.743		
75	27.88	0.797		

215 Other(describe)				
Lab	%	P2O5	dB	
20	28.29	-0.316		
49	28.21	0.000		
Median	28.21	0.000		
Std Dev	27.94	1.000		
20	27.57	2.364		

301 Atomic Absorption-AFPC IX.6.B				
Lab	%	Fe2O3		
55	0.39	0.000		
Median	0.39	0.000		

302 ICP-induced coupled plasma-AFPC IX.6.C			
Lab	%	Fe2O3	
35	0.66		-1.871
35	0.65		-1.697
266	0.63		-1.349
78	0.63		-1.262
Std Dev	0.61		-1.000
75	0.60		-0.899
15	0.60		-0.827
15	0.60		-0.827
51	0.60		-0.827
75	0.59		-0.704
45	0.59		-0.653
45	0.59		-0.653
61	0.59		-0.566
51	0.58		-0.479
78	0.57		-0.331
21	0.56		-0.044
Median	0.55		0.000
92	0.55		0.044
92	0.55		0.044
21	0.55		0.131
24	0.54		0.218
61	0.53		0.392
6	0.53		0.479
6	0.53		0.479
10	0.52		0.566
9	0.52		0.653
24	0.52		0.653
9	0.51		0.740
10	0.51		0.740
49	0.51		0.827
Std Dev	0.50		1.000
13	0.50		1.001
13	0.50		1.001

303 Other(describe)			
Lab	%	Fe2O3	
77	0.64		-0.812
56	0.63		-0.659
77	0.62		-0.505
65	0.61		-0.413
Median	0.59		0.000
20	0.56		0.413

20	0.55		0.643
Std Dev	0.52		1.000
49	0.51		1.256
69	0.50		1.332

401 Atomic Absorption-AFPC IX.6.B			
Lab	%	Al2O3	
55	0.56		0.000
Median	0.56		0.000

402 ICP-induced coupled plasma-AFPC IX.6.C			
Lab	%	Al2O3	
266	1.81		-9.557
78	1.78		-9.254
78	1.77		-9.102
35	1.14		-2.781
51	1.08		-2.174
35	1.03		-1.669
61	1.01		-1.416
51	0.97		-1.062
Std Dev	0.96		-1.000
6	0.93		-0.657
61	0.89		-0.253
92	0.88		-0.152
75	0.87		-0.084
21	0.87		-0.051
45	0.87		-0.051
92	0.87		-0.051
49	0.87		0.000
Median	0.87		0.000
75	0.86		0.002
15	0.86		0.051
15	0.86		0.051
6	0.86		0.101
9	0.85		0.152
45	0.85		0.152
9	0.84		0.253
24	0.80		0.708
21	0.79		0.809
Std Dev	0.77		1.000
10	0.73		1.365
24	0.73		1.416
10	0.72		1.466
69	0.64		2.326

13	0.62		2.478
13	0.62		2.528

403 Other(describe)			
Lab	%	Al2O3	
65	1.75		-0.598
77	1.68		-0.424
77	1.66		-0.374
56	1.51		0.000
Median	1.51		0.000
20	1.20		0.773
Std Dev	1.11		1.000
20	1.07		1.109
49	0.87		1.596

501 Atomic Absorption-AFPC IX.8.A			
Lab	%	MgO	
35	0.48		-0.168
35	0.47		0.000
Median	0.47		0.000
Std Dev	0.41		1.000
55	0.32		2.513

502 ICP-induced coupled plasma-AFPC IX.8.B			
Lab	%	MgO	
75	0.56		-4.898
78	0.50		-2.010
78	0.49		-1.787
266	0.49		-1.787
61	0.48		-1.340
Std Dev	0.47		-1.000
9	0.47		-0.893
15	0.47		-0.893
15	0.47		-0.893
21	0.47		-0.893
49	0.47		-0.893
15	0.47		-0.670
21	0.47		-0.670
51	0.46		-0.447
6	0.45		0.000
9	0.45		0.000
45	0.45		0.000
45	0.45		0.000
51	0.45		0.000
92	0.45		0.000

92	0.45		0.000
Median	0.45		0.000
10	0.44		0.447
10	0.44		0.447
13	0.44		0.447
24	0.44		0.447
13	0.43		0.893
69	0.43		0.893
Std Dev	0.43		1.000
24	0.42		1.340
6	0.41		2.010
75	0.40		2.230
61	0.40		2.233

503 Other(describe)			
Lab	%	MgO	
77	0.59		-1.424
77	0.58		-1.256
Std Dev	0.56		-1.000
56	0.51		-0.084
20	0.51		0.000
Median	0.51		0.000
49	0.47		0.586
20	0.46		0.754
65	0.46		0.787

601 Insoluble-AFPC IX.4.A			
Lab	%	Al	
15	16.87		-10.298
15	16.87		-10.286
55	13.50		-1.936
21	13.42		-1.737
Std Dev	13.12		-1.000
51	12.95		-0.571
26	12.95		-0.558
61	12.86		-0.347
49	12.86		-0.335
51	12.85		-0.323
10	12.79		-0.174
10	12.75		-0.074
24	12.72		0.000
Median	12.72		0.000
45	12.59		0.323
13	12.48		0.608

45	12.46	0.645
24	12.43	0.732
9	12.37	0.881
9	12.36	0.893
Std Dev	12.32	1.000
21	12.29	1.079
13	12.18	1.340
35	11.71	2.506
35	10.79	4.789
69	1.73	27.284

602 Other(describe)		
Lab	%	AI
266	12.70	-0.060
49	12.70	-0.059
6	12.61	-0.037
Median	12.45	0.000
6	12.30	0.037
Std Dev	8.31	1.000
20	5.40	1.704
20	5.13	1.768

651 Gasometric-AFPC IX.13.B		
Lab	%	CO2
61	5.46	-7.130
6	4.43	-1.922
24	4.27	-1.112
24	4.25	-1.011
Std Dev	4.25	-1.000
6	4.20	-0.758
9	4.09	-0.202
77	4.09	-0.202
Median	4.05	0.000
13	4.01	0.202
13	4.00	0.253
9	3.98	0.354
15	3.97	0.405
15	3.93	0.632
Std Dev	3.85	1.000
49	3.75	1.517
21	3.70	1.770

652 Other(describe)		
Lab	%	CO2

35	8.60	-1.869
35	8.55	-1.849
78	7.24	-1.333
78	7.15	-1.297
Std Dev	6.40	-1.000
65	4.10	-0.091
20	3.87	0.000
55	3.87	0.000
Median	3.87	0.000
49	3.84	0.012
275	3.82	0.022
20	3.76	0.043
56	3.73	0.055
275	3.69	0.071
266	3.46	0.162

701 Gravimetric sulfate-AFPC IX.12.A		
Lab	%	CaO
Median	0.00	0.000

702 ICP-induced coupled plasma-AFPC IX.12.D		
Lab	%	CaO

78	44.22	-3.042
51	43.65	-1.994
51	43.53	-1.771
69	43.14	-1.048
Std Dev	43.11	-1.000
45	43.00	-0.788
9	42.96	-0.714
78	42.93	-0.658
10	42.84	-0.491
92	42.70	-0.232
49	42.67	-0.167
9	42.65	-0.139
45	42.58	-0.009
Median	42.58	0.000
6	42.57	0.009
10	42.50	0.139
13	42.31	0.501
21	42.31	0.501
6	42.29	0.529
13	42.22	0.668
21	42.22	0.668
92	42.11	0.862

Std Dev	42.04	1.000
75	41.29	2.391
75	39.29	6.091
61	39.17	6.315
61	38.04	8.411

703 Ceric Sulfate volumetric-AFPC IX.12.B		
Lab	%	CaO
Median	0.00	0.000

704 Permanganate		
Lab	%	CaO
Median	0.00	0.000

705 EDTA Volumetric-AFPC IX.12.C		
Lab	%	CaO
35	44.35	-1.340
Std Dev	44.20	-1.000
Median	43.77	0.000
Std Dev	43.34	1.000
266	43.19	1.340

706 Other(describe)		
Lab	%	CaO
20	44.26	-2.421
56	43.62	-1.350
77	43.60	-1.317
Std Dev	43.41	-1.000
77	43.40	-0.983
20	43.31	-0.824
15	42.85	-0.054
Median	42.81	0.000
65	42.78	0.054
15	42.77	0.071
49	42.71	0.171
24	42.47	0.581
24	42.37	0.740
Std Dev	42.21	1.000
55	42.02	1.325

711 Gravimetric sulfate-AFPC IX.12.A			
Lab	%	CaO	dB
Median	0.00	0.000	0.000

712 ICP-induced coupled plasma-AFPC IX.12.I			
Lab	%	CaO	dB
69	43.45	-1.727	
9	43.22	-1.273	
10	43.12	-1.058	
Std Dev	43.09	-1.000	
49	42.94	-0.698	
9	42.93	-0.681	
6	42.83	-0.481	
10	42.77	-0.375	
21	42.59	-0.017	
Median	42.59	0.000	
13	42.58	0.017	
6	42.53	0.120	
13	42.51	0.151	
21	42.50	0.181	
Std Dev	42.09	1.000	
75	41.55	2.078	
75	39.53	6.103	
61	39.36	6.437	
61	38.23	8.693	

713 Ceric Sulfate volumetric-AFPC IX.12.B			
Lab	%	CaO	dB
Median	0.00	0.000	0.000

714 Permanganate			
Lab	%	CaO	dB
Median	0.00	0.000	0.000

715 EDTA Volumetric-AFPC IX.12.C			
Lab	%	CaO	dB
35	44.64	-1.340	
Std Dev	44.50	-1.000	
Median	44.09	0.000	
Std Dev	43.68	1.000	
266	43.54	1.340	

716 Other(describe)			
Lab	%	CaO	dB
20	44.38	-2.672	
77	43.70	-1.306	
Std Dev	43.55	-1.000	
20	43.51	-0.922	

77	43.47	-0.833
15	43.08	-0.067
Median	43.05	0.000
15	43.02	0.067
49	43.00	0.110
24	42.78	0.550
24	42.66	0.785
Std Dev	42.55	1.000
55	42.28	1.545

801 Volumetric-AFPC IX.14.A		
Lab	%	Fluorine, F
Median	0.00	0.000

802 Specific Ion Electrode-AFPC IX.14.B		
Lab	%	Fluorine, F
55	3.50	-5.147
35	3.08	-1.574
15	3.07	-1.446
15	3.06	-1.404
69	3.04	-1.234
Std Dev	3.01	-1.000
13	2.98	-0.723
24	2.95	-0.468
26	2.93	-0.255
9	2.91	-0.128
6	2.91	-0.085
51	2.90	-0.043
21	2.90	0.000
Median	2.90	0.000
49	2.89	0.043
51	2.88	0.128
21	2.86	0.298
75	2.85	0.425
24	2.82	0.681
266	2.80	0.808
75	2.78	0.978
9	2.78	0.978
Std Dev	2.78	1.000
13	2.77	1.063
6	2.75	1.234
35	2.73	1.404

803 Other(describe)		
Lab	%	Fluorine, F
77	3.00	-0.817
77	2.98	-0.665
20	2.92	-0.171
Median	2.89	0.000
20	2.87	0.171
Std Dev	2.76	1.000
49	2.76	1.007
65	2.72	1.311

911 Atomic Absorption-AFPC		
Lab	ppm	Arsenic, As
55	2.6	0.000
Median	2.6	0.000

912 ICP-induced coupled plasma-AFPC IX.15.B		
Lab	ppm	Arsenic, As
69	18.8	-6.383
Std Dev	12.8	-1.000
24	12.5	-0.670
35	12.0	-0.268
51	12.0	-0.268
61	11.7	-0.013
24	11.7	0.000
Median	11.7	0.000
61	11.3	0.402
35	11.0	0.625
Std Dev	10.6	1.000
51	10.0	1.519
266	6.9	4.288
78	5.0	5.985

913 Other(describe)		
Lab	ppm	Arsenic, As
13	10.0	-1.623
Std Dev	9.7	-1.000
20	9.5	-0.534
Median	9.3	0.000
20	9.0	0.534
77	9.0	0.534

921 Atomic Absorption-AFPC IX.11.A		
Lab	ppm	Cadmium, Cd

55	88	0.000
Median	88	0.000

922 ICP-induced coupled plasma-AFPC IX.11.B		
Lab	ppm	Cadmium, Cd
78	100	-2.313
78	95	-1.694
77	91	-1.114
Std Dev	90	-1.000
75	89	-0.832
75	89	-0.762
61	88	-0.744
77	88	-0.691
61	87	-0.590
24	83	0.000
Median	83	0.000
266	81	0.339
51	80	0.437
275	79	0.554
51	79	0.578
24	79	0.621
275	78	0.656
Std Dev	76	1.000
35	72	1.566
35	68	2.130

923 Other(describe)		
Lab	ppm	Cadmium, Cd
13	84	-0.916
20	83	-0.374
Median	82	0.000
20	81	0.374
Std Dev	79	1.000
69	76	2.202

931 Atomic Absorption-AFPC IX.16.B		
Lab	ppm	Cobalt, Co
55	1	0.000
Median	1	0.000

932 ICP-induced coupled plasma-AFPC IX.16.A		
Lab	ppm	Cobalt, Co
77	2	-2.285
78	2	-1.870

77	2	-1.247
61	2	-1.132
Std Dev	2	-1.000
35	2	-0.831
61	1	-0.156
266	1	0.000
Median	1	0.000
35	1	0.208
75	1	0.208
78	1	0.208
Std Dev	1	1.000
24	0	2.285
24	0	2.285
75	0	2.285

933 Other(describe)		
Lab	ppm	Cobalt, Co
20	2	-0.627
13	2	-0.563
Median	1	0.000
69	1	0.563
Std Dev	1	1.000
20	0	1.356

941 Atomic Absorption-AFPC IX.16.B		
Lab	ppm	Mercury, Hg
Median	0.0	0.000

942 ICP-induced coupled plasma-AFPC IX.16.A		
Lab	ppm	Mercury, Hg
266	0.3	-0.269
35	0.3	0.000
Median	0.3	0.000
Std Dev	0.2	1.000
35	0.0	2.411

943 Other(describe)		
Lab	ppm	Mercury, Hg
13	0.7	-1.340
Std Dev	0.6	-1.000
Median	0.3	0.000
Std Dev	0.1	1.000
69	0.0	1.340

951 Atomic Absorption-AFPC IX.16.B		
Lab	ppm	lybdenum, Mo
55	13	0.000
Median	13	0.000

952 ICP-induced coupled plasma-AFPC IX.16.A		
Lab	ppm	lybdenum, Mo
78	16	-1.771
78	16	-1.228
Std Dev	15	-1.000
77	14	-0.109
77	14	-0.109
61	14	-0.020
61	14	0.000
Median	14	0.000
266	13	0.299
Std Dev	12	1.000
24	12	1.181
24	12	1.282
20	3	7.117
20	3	7.355

953 Other(describe)		
Lab	ppm	lybdenum, Mo
69	16	-1.340
Std Dev	16	-1.000
Median	16	0.000
Std Dev	15	1.000
13	15	1.340

961 Atomic Absorption-AFPC IX.16.B		
Lab	ppm	Nickel, Ni
55	97	0.000
Median	97	0.000

962 ICP-induced coupled plasma-AFPC IX.16.A		
Lab	ppm	Nickel, Ni
35	124	-1.638
35	122	-1.489
78	117	-1.079
Std Dev	115	-1.000
78	114	-0.893
61	104	-0.127
75	102	0.000

77	102	0.000
Median	102	0.000
61	101	0.067
75	100	0.149
77	96	0.447
24	95	0.529
24	91	0.856
Std Dev	89	1.000
266	88	1.027

963 Other(describe)		
Lab	ppm	Nickel, Ni
13	100	-0.600
20	100	-0.343
Median	99	0.000
20	98	0.343
Std Dev	96	1.000
69	91	2.704

971 Atomic Absorption-AFPC IX.16.B		
Lab	ppm	Lead, Pb
55	6	0.000
Median	6	0.000

972 ICP-induced coupled plasma-AFPC IX.16.A		
Lab	ppm	Lead, Pb
61	15	-2.602
61	14	-2.302
Std Dev	11	-1.000
51	10	-0.709
275	10	-0.583
275	9	-0.413
266	9	-0.365
51	9	-0.354
35	8	0.000
35	8	0.000
Median	8	0.000
77	6	0.709
24	6	0.744
24	5	0.939
Std Dev	5	1.000
77	5	1.063
78	3	1.684
78	1	2.517

973 Other(describe)		
Lab	ppm	Lead, Pb
69	8	-2.322
Std Dev	6	-1.000
13	5	-0.434
Median	4	0.000
20	3	0.434
20	3	0.434

981 Atomic Absorption-AFPC IX.16.B		
Lab	ppm	Selenium, Se
Median	0	0.000

982 ICP-induced coupled plasma-AFPC IX.16.A		
Lab	ppm	Selenium, Se
266	20	-1.340
Std Dev	20	-1.000
Median	19	0.000
Std Dev	18	1.000
77	18	1.340

983 Other(describe)		
Lab	ppm	Selenium, Se
13	22	-1.340
Std Dev	21	-1.000
Median	20	0.000
Std Dev	18	1.000
69	18	1.340

991 Atomic Absorption-AFPC IX.16.B		
Lab	ppm	Zinc, Zn
55	901	0.000
Median	901	0.000

992 ICP-induced coupled plasma-AFPC IX.16.A		
Lab	ppm	Zinc, Zn
78	1025	-0.966
24	996	-0.671
61	988	-0.591
78	980	-0.508
24	954	-0.252
75	930	-0.008
77	929	0.000

Median	929	0.000
77	927	0.020
75	905	0.247
61	846	0.832
35	840	0.896
Std Dev	830	1.000
266	812	1.177
35	779	1.510

993 Other(describe)		
Lab	ppm	Zinc, Zn
20	1055	-1.744
Std Dev	983	-1.000
20	934	-0.492
Median	886	0.000
13	839	0.492
69	822	0.667