

AFPC Rock Check Program

Sample No. 2017-12

	Method #	# of Anal.	Grand Median	Std Dev
Moisture				
Ground Sample AFPC IX.2.A	101	29	0.83	0.127
Other (describe)	102	3	0.75	0.039
Method Group 100		32	0.82	0.13
P₂O₅				
Gravimetric AFPC IX.3.B	201	4	31.48	0.223
ICP-induced coupled plasma AFPC IX.3.D	202	3	31.50	0.175
Photometric-AFPC IX.3.C	203	18	31.42	0.252
Automated -AOAC 978.01-15th	204	11	31.41	0.110
Other(describe)	205	4	31.52	0.407
Method Group 200		40	31.42	0.18
P₂O₅ (on Dry Basis)				
Gravimetric AFPC IX.3.B	211	3	31.48	0.182
ICP-induced coupled plasma AFPC IX.3.D	212	3	31.81	0.144
Photometric-AFPC IX.3.C	213	12	31.66	0.178
Automated -AOAC 978.01-15th	214	11	31.68	0.120
Other(describe)	215	2	32.03	0.061
Method Group 210		31	31.68	0.21
Fe₂O₃				
Atomic Absorption-AFPC IX.6.B	301	1	1.44	0.000
ICP-induced coupled plasma-AFPC IX.6.C	302	27	1.56	0.282
Other(describe)	303	7	1.64	0.125
Method Group 300		35	1.64	0.28
Al₂O₃				
Atomic Absorption-AFPC IX.7.B	401	1	0.65	0.000
ICP-induced coupled plasma-AFPC IX.7.C	402	28	1.05	0.063
Other(describe)	403	6	1.10	0.041
Method Group 400		35	1.06	0.07
MgO				
Atomic Absorption-AFPC IX.8.A	501	1	0.60	0.000
ICP-induced coupled plasma-AFPC IX.8.B	502	28	0.63	0.020
Other(describe)	503	6	0.61	0.044
Method Group 500		35	0.63	0.03
Acid Insoluble				
Insoluble-AFPC IX.4.A	601	24	4.29	0.209
Other(describe)	602	4	6.95	1.936
Method Group 600		28	4.32	0.28
Carbon Dioxide				
Gasometric-AFPC IX.13.B	651	15	4.18	0.237
Other(describe)	652	12	4.69	1.453
Method Group 650		27	4.19	0.54
CaO				
Gravimetric sulfate-AFPC IX.12.A	701			
ICP-induced coupled plasma-AFPC IX.12.D	702	23	46.21	0.756
Ceric Sulfate volumetric-AFPC IX.12.B	703			
Permanganate	704	2	45.80	0.541
EDTA Volumetric-AFPC IX.12.C	705	1	48.29	0.000
Other(describe)	706	11	46.74	0.299
Method Group 700		37	46.53	0.70
CaO (on Dry Basis)				
Gravimetric sulfate-AFPC IX.12.A	711			
ICP-induced coupled plasma-AFPC IX.12.D	712	17	47.05	0.583
Ceric Sulfate volumetric-AFPC IX.12.B	713			
Permanganate	714	2	46.13	0.576
EDTA Volumetric-AFPC IX.12.C	715	1	48.63	0.000
Other(describe)	716	9	46.92	0.390
Method Group 710		28	46.97	0.63

	Method #	# of Anal.	Grand Median	Std Dev
Fluorine, F				
Volumetric-AFPC IX.14.A	801			
Specific Ion Electrode-AFPC IX.14.B	802	23	3.55	0.112
Other (describe)	803	5	3.56	0.142
Method Group 800		28	3.55	0.12
Arsenic, As				
Atomic Absorption	911			
ICP-induced coupled plasma-AFPC IX.15.B	912	13	36.3	5.37
Other(describe)	913	4	23.1	18.68
Method Group 900		17	35.4	7.84
Cadmium, Cd				
Atomic Absorption-AFPC IX.11.A	921	1	2	0.0
ICP-induced coupled plasma-AFPC IX.11.B	922	15	3	1.0
Other(describe)	923	4	6	15.6
Method Group 910		20	3	1.2
Cobalt, Co				
Atomic Absorption-AFPC IX.16.B	931	1	2	0.0
ICP-induced coupled plasma-AFPC IX.16.A	932	13	5	1.6
Other(describe)	933	4	4	1.5
Method Group 920		18	5	1.9
Mercury, Hg				
Atomic Absorption-AFPC IX.16.B	941			
ICP-induced coupled plasma-AFPC IX.16.A	942	4	0.2	0.24
Other(describe)	943	4	21.1	31.62
Method Group 930		8	0.2	8.13
Molybdenum, Mo				
Atomic Absorption-AFPC IX.16.B	951	1	27	0.0
ICP-induced coupled plasma-AFPC IX.16.A	952	11	27	1.2
Other(describe)	953	2	22	4.8
Method Group 940		14	27	1.4
Nickel, Ni				
Atomic Absorption-AFPC IX.16.B	961	1	21	0.0
ICP-induced coupled plasma-AFPC IX.16.A	962	11	19	2.0
Other(describe)	963	6	25	11.0
Method Group 950		18	19	1.7
Lead, Pb				
Atomic Absorption-AFPC IX.16.B	971	1	9	0.0
ICP-induced coupled plasma-AFPC IX.16.A	972	14	15	3.4
Other(describe)	973	4	13	1.9
Method Group 960		19	14	2.5
Selenium, Se				
Atomic Absorption-AFPC IX.16.B	981			
ICP-induced coupled plasma-AFPC IX.16.A	982	2	4	0.8
Other(describe)	983	2	2	1.6
Method Group 970		4	4	1.8
Zinc, Zn				
Atomic Absorption-AFPC IX.16.B	991	1	43	0
ICP-induced coupled plasma-AFPC IX.16.A	992	13	47	6
Other(describe)	993	6	47	5
Method Group 980		20	47	6

101 Ground Sample AFPC IX.2.A			
Lab	%	H ₂ O	
49	1.04		-1.655
49	1.02		-1.498
10	0.98		-1.182
10	0.97		-1.104
Std Dev	0.96		-1.000
21	0.95		-0.946
9	0.94		-0.828
21	0.88		-0.394
24	0.87		-0.315
24	0.87		-0.315
15	0.87		-0.276
61	0.87		-0.276
61	0.86		-0.197
75	0.84		-0.039
15	0.83		0.000
26	0.83		0.000
Median	0.83		0.000
30	0.82		0.079
13	0.82		0.118
13	0.81		0.197
9	0.80		0.276
75	0.80		0.276
35	0.73		0.788
Std Dev	0.70		1.000
266	0.70		1.025
20	0.67		1.261
241	0.64		1.498
35	0.61		1.734
55	0.56		2.128
77	0.45		2.995
270	0.44		3.074
77	0.38		3.547

102 Other (describe)			
Lab	%	H ₂ O	
241	0.78		-0.766
69	0.75		0.000
Median	0.75		0.000
Std Dev	0.71		1.000
20	0.68		1.914

201 Gravimetric AFPC IX.3.B			
Lab	%	P2O5	
241	31.64		-0.706
56	31.61		-0.549
Median	31.48		0.000
77	31.36		0.549
Std Dev	31.26		1.000
55	31.18		1.357

202 ICP-induced coupled plasma AFPC IX.3.D			
Lab	%	P2O5	
266	31.89		-2.224
Std Dev	31.68		-1.000
10	31.50		0.000
Median	31.50		0.000
10	31.42		0.456

203 Photometric-AFPC IX.3.C			
Lab	%	P2O5	
49	31.66		-0.973
51	31.59		-0.695
61	31.58		-0.655
49	31.54		-0.496
35	31.53		-0.457
51	31.49		-0.298
35	31.45		-0.139
61	31.44		-0.099
92	31.43		-0.060
Median	31.42		0.000
92	31.40		0.060
9	31.35		0.258
9	31.34		0.298
30	31.31		0.417
Std Dev	31.16		1.000
270	31.14		1.092
26	31.10		1.251
78	30.93		1.926
78	30.69		2.899
69	28.01		13.523

204 Automated -AOAC 978.01-15th			
Lab	%	P2O5	
13	31.56		-1.408
Std Dev	31.52		-1.000

75	31.50		-0.863
13	31.45		-0.409
15	31.43		-0.182
15	31.42		-0.136
24	31.41		0.000
Median	31.41		0.000
24	31.38		0.273
21	31.31		0.863
Std Dev	31.29		1.000
77	31.27		1.226
21	31.20		1.862
75	31.19		1.999

205 Other(describe)			
Lab	%	P2O5	
20	31.89		-0.922
20	31.73		-0.529
Median	31.52		0.000
19	31.30		0.529
Std Dev	31.11		1.000
56	31.00		1.266

211 Gravimetric AFPC IX.3.B			
Lab	%	P2O5	dB
241	31.84		-1.999
Std Dev	31.66		-1.000
77	31.48		0.000
Median	31.48		0.000
55	31.36		0.681

212 ICP-induced coupled plasma AFPC IX.3.D			
Lab	%	P2O5	dB
266	32.11		-2.098
Std Dev	31.96		-1.000
10	31.81		0.000
Median	31.81		0.000
10	31.73		0.582

213 Photometric-AFPC IX.3.C			
Lab	%	P2O5	dB
49	31.99		-1.845
49	31.87		-1.129
61	31.85		-1.058
Std Dev	31.84		-1.000

35	31.72		-0.336
61	31.71		-0.285
35	31.68		-0.099
Median	31.66		0.000
9	31.65		0.099
9	31.59		0.406
30	31.57		0.531
Std Dev	31.49		1.000
26	31.36		1.700
270	31.28		2.163
69	28.22		19.298

214 Automated -AOAC 978.01-15th			
Lab	%	P2O5	dB
13	31.82		-1.133
Std Dev	31.80		-1.000
75	31.75		-0.601
13	31.71		-0.233
15	31.70		-0.155
15	31.68		-0.020
24	31.68		0.000
Median	31.68		0.000
24	31.65		0.253
21	31.59		0.775
Std Dev	31.56		1.000
21	31.50		1.517
75	31.45		1.949
77	31.41		2.252

215 Other(describe)			
Lab	%	P2O5	dB
20	32.11		-1.340
Std Dev	32.09		-1.000
Median	32.03		0.000
Std Dev	31.96		1.000
20	31.94		1.340

301 Atomic Absorption-AFPC IX.6.B			
Lab	%	Fe2O3	
55	1.44		0.000
Median	1.44		0.000

302 ICP-induced coupled plasma-AFPC IX.6.C			
Lab	%	Fe2O3	

266	2.01	-1.592
35	1.92	-1.272
Std Dev	1.84	-1.000
61	1.80	-0.846
15	1.79	-0.811
61	1.79	-0.793
15	1.77	-0.740
35	1.76	-0.704
51	1.74	-0.633
92	1.74	-0.633
51	1.70	-0.491
78	1.70	-0.491
92	1.66	-0.349
78	1.66	-0.332
75	1.56	0.000
Median	1.56	0.000
75	1.55	0.025
9	1.43	0.467
13	1.39	0.609
9	1.39	0.627
21	1.38	0.644
21	1.38	0.662
10	1.37	0.680
10	1.36	0.715
13	1.36	0.715
49	1.33	0.822
49	1.32	0.857
Std Dev	1.28	1.000
24	1.20	1.283
24	1.19	1.337

303 Other(describe)		
Lab	%	Fe2O3
77	1.89	-2.000
77	1.86	-1.760
Std Dev	1.77	-1.000
20	1.65	-0.080
56	1.64	0.000
Median	1.64	0.000
20	1.64	0.040
19	1.54	0.800
Std Dev	1.52	1.000
69	0.55	8.720

401 Atomic Absorption-AFPC IX.6.B		
Lab	%	Al2O3
55	0.65	0.000
Median	0.65	0.000

402 ICP-induced coupled plasma-AFPC IX.6.C		
Lab	%	Al2O3
35	1.34	-4.557
266	1.31	-4.084
35	1.25	-3.138
61	1.20	-2.271
61	1.17	-1.877
92	1.17	-1.877
92	1.13	-1.246
Std Dev	1.11	-1.000
51	1.11	-0.931
78	1.09	-0.616
51	1.08	-0.458
78	1.07	-0.300
24	1.06	-0.143
24	1.06	-0.064
75	1.05	-0.015
Median	1.05	0.000
9	1.05	0.015
9	1.05	0.094
15	1.05	0.094
21	1.05	0.094
75	1.04	0.138
15	1.04	0.173
10	1.03	0.330
10	1.03	0.330
49	1.03	0.330
49	1.03	0.330
13	1.03	0.409
21	1.02	0.488
13	1.01	0.724
Std Dev	0.99	1.000
69	0.85	3.168

403 Other(describe)		
Lab	%	Al2O3
77	1.20	-2.558
77	1.15	-1.340
Std Dev	1.14	-1.000

20	1.10	-0.122
Median	1.10	0.000
20	1.09	0.122
56	1.08	0.365
Std Dev	1.05	1.000
19	0.97	3.045

501 Atomic Absorption-AFPC IX.8.A		
Lab	%	MgO
55	0.60	0.000
Median	0.60	0.000

502 ICP-induced coupled plasma-AFPC IX.8.B		
Lab	%	MgO
35	0.77	-7.147
35	0.69	-3.063
266	0.66	-1.531
Std Dev	0.65	-1.000
13	0.65	-0.766
9	0.64	-0.510
21	0.64	-0.510
21	0.64	-0.510
49	0.64	-0.510
49	0.64	-0.510
92	0.64	-0.510
9	0.63	0.000
10	0.63	0.000
10	0.63	0.000
13	0.63	0.000
15	0.63	0.000
61	0.63	0.000
Median	0.63	0.000
75	0.63	0.053
15	0.63	0.255
51	0.62	0.510
75	0.62	0.586
24	0.62	0.766
Std Dev	0.61	1.000
24	0.61	1.021
61	0.61	1.021
51	0.60	1.531
92	0.60	1.531
78	0.59	2.042
78	0.59	2.042

69	0.38	12.762
503 Other(describe)		
Lab	%	MgO
77	0.75	-3.136
56	0.67	-1.311
Std Dev	0.66	-1.000
20	0.63	-0.285
Median	0.61	0.000
20	0.60	0.285
77	0.60	0.285
19	0.57	0.969

601 Insoluble-AFPC IX.4.A		
Lab	%	Al
21	4.82	-2.524
21	4.72	-2.070
49	4.67	-1.831
9	4.62	-1.567
49	4.61	-1.543
10	4.50	-1.017
10	4.50	-1.017
Std Dev	4.50	-1.000
13	4.47	-0.873
13	4.41	-0.586
24	4.32	-0.156
15	4.31	-0.108
15	4.31	-0.084
Median	4.29	0.000
26	4.27	0.084
35	4.27	0.084
30	4.25	0.179
51	4.25	0.179
35	4.24	0.227
9	4.23	0.299
24	4.21	0.395
51	4.19	0.467
55	4.09	0.945
Std Dev	4.08	1.000
61	3.72	2.740
61	2.72	7.526
69	1.35	14.058

602 Other(describe)			
Lab	%	Al	
20	8.10		-0.594
20	8.05		-0.571
Median	6.95		0.000
19	5.84		0.571
Std Dev	5.01		1.000
266	4.35		1.341

651 Gasometric-AFPC IX.13.B			
Lab	%	CO2	
61	4.74		-2.385
Std Dev	4.41		-1.000
21	4.33		-0.654
24	4.33		-0.654
15	4.25		-0.317
24	4.21		-0.148
9	4.19		-0.063
30	4.18		-0.021
15	4.18		0.000
Median	4.18		0.000
21	4.11		0.274
9	4.09		0.359
77	4.09		0.359
Std Dev	3.94		1.000
13	3.74		1.857
49	3.68		2.089
13	3.65		2.237
49	3.64		2.258

652 Other(describe)			
Lab	%	CO2	
35	7.20		-1.727
35	7.19		-1.720
Std Dev	6.14		-1.000
78	5.86		-0.805
78	5.79		-0.757
51	5.12		-0.296
51	4.97		-0.193
Median	4.69		0.000
55	4.41		0.193
56	4.21		0.330
20	3.87		0.568
20	3.85		0.581

266	3.49		0.826
61	3.28		0.970

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	

75	49.39		-4.202
75	49.21		-3.970
61	48.63		-3.196
Std Dev	46.97		-1.000
9	46.91		-0.920
9	46.88		-0.887
10	46.87		-0.873
13	46.85		-0.840
13	46.75		-0.715
61	46.62		-0.543
10	46.59		-0.503
92	46.31		-0.132
49	46.21		0.000
Median	46.21		0.000
49	46.14		0.093
21	46.11		0.132
51	46.03		0.238
21	45.93		0.371
51	45.93		0.371
92	45.76		0.596
Std Dev	45.45		1.000
35	44.94		1.681
35	44.66		2.051
78	44.49		2.283
78	44.36		2.455
69	39.91		8.338

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

704 Permanganate			
Lab	%	CaO	
30	46.52		-1.340
Std Dev	46.34		-1.000

Median	45.80		0.000
Std Dev	45.25		1.000
241	45.07		1.340

705 EDTA Volumetric-AFPC IX.12.C			
Lab	%	CaO	
266	48.29		0.000
Median	48.29		0.000

706 Other(describe)			
Lab	%	CaO	

77	47.60		-2.881
77	47.40		-2.211
Std Dev	47.04		-1.000
15	47.02		-0.921
56	46.82		-0.268
19	46.80		-0.201
24	46.74		0.000
Median	46.74		0.000
55	46.64		0.335
15	46.53		0.703
24	46.51		0.787
Std Dev	46.44		1.000
20	45.52		4.087
20	45.49		4.204

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

712 ICP-induced coupled plasma-AFPC IX.12.D			
Lab	%	CaO	dB
75	49.80		-4.722
75	49.60		-4.385
61	49.05		-3.434
Std Dev	47.63		-1.000
9	47.35		-0.517
10	47.33		-0.493
9	47.26		-0.359
13	47.23		-0.307
13	47.13		-0.151
10	47.05		0.000
Median	47.05		0.000
61	47.02		0.042

49	46.69		0.617
49	46.62		0.723
21	46.55		0.847
Std Dev	46.46		1.000
21	46.34		1.215
35	45.22		3.138
35	44.99		3.528
69	40.21		11.717

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

714 Permanganate			
Lab	%	CaO	dB
30	46.90		-1.340
Std Dev	46.71		-1.000
Median	46.13		0.000
Std Dev	45.56		1.000
241	45.36		1.340

715 EDTA Volumetric-AFPC IX.12.C			
Lab	%	CaO	dB
266	48.63		0.000
Median	48.63		0.000

716 Other(describe)			
Lab	%	CaO	dB
77	47.78		-2.211
77	47.61		-1.782
15	47.43		-1.297
Std Dev	47.31		-1.000
24	47.15		-0.592
15	46.92		0.000
Median	46.92		0.000
24	46.91		0.016
55	46.90		0.043
Std Dev	46.53		1.000
20	45.83		2.801
20	45.79		2.886

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

15	4.20	-5.762
15	4.16	-5.405
35	3.93	-3.395
35	3.85	-2.680
Std Dev	3.66	-1.000
13	3.64	-0.804
9	3.63	-0.670
266	3.62	-0.625
9	3.60	-0.447
24	3.59	-0.357
30	3.58	-0.268
21	3.58	-0.223
51	3.55	0.000
Median	3.55	0.000
49	3.53	0.179
21	3.52	0.268
49	3.50	0.447
75	3.49	0.536
26	3.48	0.670
51	3.47	0.715
Std Dev	3.44	1.000
24	3.44	1.027
75	3.44	1.027
13	3.33	1.965
69	3.23	2.859
55	2.90	5.807

803 Other(describe)		
Lab	%	Fluorine, F

19	3.70	-1.023
Std Dev	3.70	-1.000
20	3.57	-0.106
20	3.56	0.000
Median	3.56	0.000
Std Dev	3.41	1.000
77	3.38	1.234
77	3.35	1.446

911 Atomic Absorption-AFPC		
Lab	ppm	Arsenic, As

Median	0.0	0.000
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912 ICP-induced coupled plasma-AFPC IX.15.B		
Lab	ppm	Arsenic, As

61	48.3	-2.232
61	44.0	-1.439
Std Dev	41.7	-1.000
270	41.3	-0.931
24	39.2	-0.540
24	37.5	-0.223
266	37.1	-0.149
78	36.3	0.000
Median	36.3	0.000
78	34.4	0.363
35	34.0	0.428
35	32.0	0.800
Std Dev	30.9	1.000
51	27.0	1.731
51	24.0	2.289
69	6.7	5.513

913 Other(describe)		
Lab	ppm	Arsenic, As

77	36.6	-0.726
13	35.4	-0.661
Median	23.1	0.000
20	10.7	0.661
20	10.6	0.667

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

55	2	0.000
Median	2	0.000

922 ICP-induced coupled plasma-AFPC IX.11.B		
Lab	ppm	Cadmium, Cd

78	4	-1.044
51	4	-1.004
75	4	-1.004
Std Dev	4	-1.000
78	4	-0.843
75	4	-0.753
61	3	-0.246
35	3	0.000
51	3	0.000

Median	3	0.000
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77	3	0.100
35	3	0.401
266	3	0.482
77	2	0.602
61	2	0.898
Std Dev	2	1.000
24	2	1.305
24	1	1.706

923 Other(describe)		
Lab	ppm	Cadmium, Cd

69	85	-5.071
Std Dev	22	-1.000
20	6	-0.008
Median	6	0.000
20	6	0.008
13	2	0.241

931 Atomic Absorption-AFPC IX.16.B		
Lab	ppm	Cobalt, Co

55	2	0.000
Median	2	0.000

932 ICP-induced coupled plasma-AFPC IX.16.A		
Lab	ppm	Cobalt, Co

78	7	-1.279
78	7	-1.279
Std Dev	7	-1.000
266	6	-0.609
77	6	-0.426
77	6	-0.365
35	5	-0.061
35	5	0.000
Median	5	0.000
61	5	0.030
61	5	0.241
24	3	0.914
Std Dev	3	1.000
24	3	1.249
75	0	2.710
75	0	2.985

933 Other(describe)		
Lab	ppm	Cobalt, Co

13	8	-2.461
Std Dev	6	-1.000
20	4	-0.012
Median	4	0.000
20	4	0.012
Std Dev	3	1.000
69	0	2.827

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

Median	0.0	0.000
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942 ICP-induced coupled plasma-AFPC IX.16.A		
Lab	ppm	Mercury, Hg

35	0.6	-1.753
Std Dev	0.4	-1.000
35	0.3	-0.505
Median	0.2	0.000
266	0.1	0.505
270	0.0	0.576

943 Other(describe)		
Lab	ppm	Mercury, Hg

24	44.0	-0.725
24	42.0	-0.661
Median	21.1	0.000
13	0.2	0.661
69	0.0	0.667

951 Atomic Absorption-AFPC IX.16.B		
Lab	ppm	Iolybdenum, Mo

55	27	0.000
Median	27	0.000

952 ICP-induced coupled plasma-AFPC IX.16.A		
Lab	ppm	Iolybdenum, Mo

78	30	-2.550
78	30	-2.429
Std Dev	28	-1.000
77	28	-0.607
24	28	-0.567
266	28	-0.445

24	27	0.000
Median	27	0.000
61	27	0.166
61	27	0.494
Std Dev	26	1.000
77	26	1.012
20	9	14.453
20	9	14.695

953 Other(describe)		
Lab	ppm	Polychlorinated biphenyls, Mo
13	28	-1.340
Std Dev	26	-1.000
Median	22	0.000
Std Dev	17	1.000
69	15	1.340

961 Atomic Absorption-AFPC IX.16.B		
Lab	ppm	Nickel, Ni
55	21	0.000
Median	21	0.000

962 ICP-induced coupled plasma-AFPC IX.16.A		
Lab	ppm	Nickel, Ni
35	22	-1.638
78	21	-1.141
78	21	-1.141
Std Dev	21	-1.000
24	19	-0.199
77	19	-0.199
24	19	0.000
Median	19	0.000
77	19	0.000
35	18	0.347
266	17	0.993
Std Dev	17	1.000
75	12	3.424
75	12	3.449

963 Other(describe)		
Lab	ppm	Nickel, Ni
69	90	-5.872
Std Dev	36	-1.000
19	36	-0.968

19	30	-0.420
Median	25	0.000
13	21	0.420
20	20	0.539
20	19	0.575

971 Atomic Absorption-AFPC IX.16.B		
Lab	ppm	Lead, Pb
55	9	0.000
Median	9	0.000

972 ICP-induced coupled plasma-AFPC IX.16.A		
Lab	ppm	Lead, Pb
61	42	-7.898
61	19	-1.300
266	18	-1.097
Std Dev	18	-1.000
51	17	-0.690
77	16	-0.370
51	15	-0.109
77	15	-0.109
Median	15	0.000
270	14	0.109
35	13	0.472
78	12	0.719
78	12	0.734
35	12	0.763
Std Dev	11	1.000
24	6	2.491
24	5	2.680

973 Other(describe)		
Lab	ppm	Lead, Pb
20	14	-0.574
20	14	-0.235
Median	13	0.000
13	13	0.235
Std Dev	11	1.000
69	7	3.377

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

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

982 ICP-induced id coupled plasma-AFPC IX.16.A		
Lab	ppm	Selenium, Se
77	5	-1.340
Std Dev	5	-1.000
Median	4	0.000
Std Dev	3	1.000
266	3	1.340

983 Other(describe)		
Lab	ppm	Selenium, Se
13	4	-1.340
Std Dev	4	-1.000
Median	2	0.000
Std Dev	1	1.000
69	0	1.340

991 Atomic Absorption-AFPC IX.16.B		
Lab	ppm	Zinc, Zn
55	43	0.000
Median	43	0.000

992 ICP-induced coupled plasma-AFPC IX.16.A		
Lab	ppm	Zinc, Zn
24	69	-3.727
61	54	-1.246
24	53	-1.005
Std Dev	53	-1.000
78	52	-0.838
61	52	-0.758
78	48	-0.168
77	47	0.000
Median	47	0.000
266	45	0.268
35	44	0.503
77	44	0.503
75	42	0.821
75	42	0.838
Std Dev	41	1.000
35	39	1.340

993 Other(describe)		
Lab	ppm	Zinc, Zn
69	890	-184.428
Std Dev	52	-1.000

19	51	-0.820
20	48	-0.055
Median	47	0.000
20	47	0.055
19	43	0.930
Std Dev	43	1.000
13	40	1.481