

AFPC Rock Check Program

Sample No. 2017-07

	Method #	# of Anal.	Grand Median	Std Dev
Moisture				
Ground Sample AFPC IX.2.A	101	30	0.72	0.145
Other (describe)	102	1	0.85	
Method Group 100		31	0.75	0.15
P₂O₅				
Gravimetric AFPC IX.3.B	201	4	29.92	0.096
ICP-induced coupled plasma AFPC IX.3.D	202	3	29.86	0.175
Photometric-AFPC IX.3.C	203	21	29.91	0.175
Automated -AOAC 978.01-15th	204	11	29.80	0.095
Other(describe)	205	4	28.83	1.428
Method Group 200		43	29.86	0.19
P₂O₅ (on Dry Basis)				
Gravimetric AFPC IX.3.B	211	2	30.03	0.019
ICP-induced coupled plasma AFPC IX.3.D	212	3	30.12	0.171
Photometric-AFPC IX.3.C	213	12	30.09	0.238
Automated -AOAC 978.01-15th	214	11	30.01	0.126
Other(describe)	215	1	28.02	0.000
Method Group 210		29	30.02	0.19
Fe₂O₃				
Atomic Absorption-AFPC IX.6.B	301	2	1.03	0.035
ICP-induced coupled plasma-AFPC IX.6.C	302	31	1.10	0.095
Other(describe)	303	8	1.22	0.174
Method Group 300		41	1.10	0.11
Al₂O₃				
Atomic Absorption-AFPC IX.7.B	401	1	0.57	0.000
ICP-induced coupled plasma-AFPC IX.7.C	402	32	0.77	0.089
Other(describe)	403	7	1.12	0.207
Method Group 400		40	0.78	0.16
MgO				
Atomic Absorption-AFPC IX.8.A	501	6	0.50	0.048
ICP-induced coupled plasma-AFPC IX.8.B	502	30	0.47	0.015
Other(describe)	503	7	0.48	0.030
Method Group 500		43	0.47	0.02
Acid Insoluble				
Insoluble-AFPC IX.4.A	601	25	9.82	0.179
Other(describe)	602	6	9.72	0.590
Method Group 600		31	9.77	0.19
Carbon Dioxide				
Gasometric-AFPC IX.13.B	651	14	4.12	0.288
Other(describe)	652	10	4.28	0.618
Method Group 650		24	4.15	0.35
CaO				
Gravimetric sulfate-AFPC IX.12.A	701			
ICP-induced coupled plasma-AFPC IX.12.D	702	25	44.94	0.571
Ceric Sulfate volumetric-AFPC IX.12.B	703			
Permanganate	704	1	42.70	0.000
EDTA Volumetric-AFPC IX.12.C	705	3	45.50	0.552
Other(describe)	706	12	45.22	0.574
Method Group 700		41	45.00	0.62
CaO (on Dry Basis)				
Gravimetric sulfate-AFPC IX.12.A	711			
ICP-induced coupled plasma-AFPC IX.12.D	712	17	45.28	0.377
Ceric Sulfate volumetric-AFPC IX.12.B	713			
Permanganate	714			
EDTA Volumetric-AFPC IX.12.C	715	3	45.76	0.496
Other(describe)	716	8	45.38	0.581
Method Group 710		28	45.28	0.55

	Method #	# of Anal.	Grand Median	Std Dev
Fluorine, F				
Volumetric-AFPC IX.14.A	801			
Specific Ion Electrode-AFPC IX.14.B	802	27	3.48	0.078
Other (describe)	803	6	3.49	0.025
Method Group 800		33	3.48	0.06
Arsenic, As				
Atomic Absorption	911			
ICP-induced coupled plasma-AFPC IX.15.B	912	12	16.7	3.27
Other(describe)	913	3	10.5	3.34
Method Group 900		15	16.3	4.09
Cadmium, Cd				
Atomic Absorption-AFPC IX.11.A	921	1	4	0.0
ICP-induced coupled plasma-AFPC IX.11.B	922	18	4	1.0
Other(describe)	923	4	5	1.4
Method Group 910		23	4	1.2
Cobalt, Co				
Atomic Absorption-AFPC IX.16.B	931	1	6	0.0
ICP-induced coupled plasma-AFPC IX.16.A	932	13	8	0.7
Other(describe)	933	4	5	4.1
Method Group 920		18	7	1.3
Mercury, Hg				
Atomic Absorption-AFPC IX.16.B	941			
ICP-induced coupled plasma-AFPC IX.16.A	942	4	0.1	0.26
Other(describe)	943	2	0.3	0.22
Method Group 930		6	0.1	0.31
Molybdenum, Mo				
Atomic Absorption-AFPC IX.16.B	951	1	8	0.0
ICP-induced coupled plasma-AFPC IX.16.A	952	11	8	1.2
Other(describe)	953	2	8	1.0
Method Group 940		14	8	1.2
Nickel, Ni				
Atomic Absorption-AFPC IX.16.B	961	1	17	0.0
ICP-induced coupled plasma-AFPC IX.16.A	962	14	30	1.1
Other(describe)	963	6	31	6.3
Method Group 950		21	30	2.0
Lead, Pb				
Atomic Absorption-AFPC IX.16.B	971	1	8	0.0
ICP-induced coupled plasma-AFPC IX.16.A	972	13	10	4.1
Other(describe)	973	4	7	5.0
Method Group 960		18	9	3.4
Selenium, Se				
Atomic Absorption-AFPC IX.16.B	981			
ICP-induced coupled plasma-AFPC IX.16.A	982	1	1	0.0
Other(describe)	983	2	3	1.9
Method Group 970		3	1	1.9
Zinc, Zn				
Atomic Absorption-AFPC IX.16.B	991	2	79	12
ICP-induced coupled plasma-AFPC IX.16.A	992	16	62	10
Other(describe)	993	6	64	15
Method Group 980		24	63	14

101 Ground Sample AFPC IX.2.A			
Lab	%	H ₂ O	
49	1.01		-1.988
49	0.99		-1.850
24	0.93		-1.435
52	0.92		-1.366
266	0.90		-1.228
Std Dev	0.87		-1.000
21	0.87		-0.986
10	0.85		-0.882
10	0.85		-0.882
6	0.82		-0.640
21	0.80		-0.501
13	0.78		-0.398
13	0.78		-0.398
6	0.77		-0.294
75	0.75		-0.190
75	0.75		-0.156
Median	0.72		0.000
9	0.70		0.156
35	0.69		0.225
26	0.69		0.259
9	0.67		0.363
20	0.67		0.363
24	0.67		0.398
15	0.66		0.467
15	0.65		0.536
Std Dev	0.58		1.000
275	0.57		1.055
275	0.55		1.193
55	0.48		1.677
35	0.41		2.161
270	0.24		3.372
77	0.08		4.444
77	0.05		4.651

102 Other (describe)			
Lab	%	H ₂ O	
69	0.85		0.000
Median	0.85		0.000

201 Gravimetric AFPC IX.3.B			
Lab	%	P2O5	
77	30.03		-1.119

Std Dev	30.02		-1.000
65	29.98		-0.598
Median	29.92		0.000
56	29.87		0.598
55	29.86		0.650

202 ICP-induced coupled plasma AFPC IX.3.D			
Lab	%	P2O5	
10	30.00		-0.798
10	29.86		0.000
Median	29.86		0.000
Std Dev	29.68		1.000
266	29.53		1.882

203 Photometric-AFPC IX.3.C			
Lab	%	P2O5	
60	30.80		-5.075
35	30.12		-1.197
Std Dev	30.09		-1.000
45	30.03		-0.684
69	30.02		-0.627
51	30.01		-0.570
49	30.00		-0.513
49	29.97		-0.342
51	29.97		-0.342
9	29.96		-0.285
9	29.95		-0.228
35	29.91		0.000
Median	29.91		0.000
45	29.89		0.114
92	29.87		0.228
92	29.86		0.285
270	29.80		0.627
6	29.77		0.827
6	29.75		0.912
Std Dev	29.73		1.000
78	29.72		1.083
78	29.64		1.568
26	29.54		2.110
52	29.53		2.167

204 Automated -AOAC 978.01-15th			
Lab	%	P2O5	
21	30.00		-2.049

13	29.91		-1.156
Std Dev	29.90		-1.000
13	29.83		-0.263
15	29.83		-0.263
15	29.82		-0.158
24	29.80		0.000
Median	29.80		0.000
77	29.72		0.841
24	29.71		0.946
Std Dev	29.70		1.000
75	29.69		1.209
75	29.67		1.366
21	29.47		3.468

205 Other(describe)			
Lab	%	P2O5	
56	29.94		-0.781
19	29.75		-0.648
Median	28.83		0.000
20	27.90		0.648
20	27.84		0.693

211 Gravimetric AFPC IX.3.B			
Lab	%	P2O5	dB
77	30.05		-1.340
Std Dev	30.05		-1.000
Median	30.03		0.000
Std Dev	30.01		1.000
55	30.00		1.340

212 ICP-induced coupled plasma AFPC IX.3.D			
Lab	%	P2O5	dB
10	30.26		-0.824
10	30.12		0.000
Median	30.12		0.000
Std Dev	29.94		1.000
266	29.80		1.856

213 Photometric-AFPC IX.3.C			
Lab	%	P2O5	dB
35	30.33		-0.994
49	30.31		-0.896
69	30.28		-0.769
49	30.27		-0.744

9	30.17		-0.330
9	30.15		-0.250
Median	30.09		0.000
35	30.03		0.250
6	30.01		0.348
6	29.98		0.475
270	29.87		0.934
Std Dev	29.85		1.000
52	29.80		1.211
26	29.74		1.465

214 Automated -AOAC 978.01-15th			
Lab	%	P2O5	dB
21	30.26		-1.948
13	30.15		-1.062
Std Dev	30.14		-1.000
24	30.08		-0.542
13	30.06		-0.381
15	30.02		-0.056
15	30.01		0.000
Median	30.01		0.000
24	29.91		0.816
75	29.91		0.825
75	29.89		0.933
Std Dev	29.89		1.000
77	29.73		2.199
21	29.71		2.427

215 Other(describe)			
Lab	%	P2O5	dB
20	28.02		0.000
Median	28.02		0.000

301 Atomic Absorption-AFPC IX.6.B			
Lab	%	Fe2O3	
60	1.08		-1.340
Std Dev	1.06		-1.000
Median	1.03		0.000
Std Dev	0.99		1.000
55	0.98		1.340

302 ICP-induced coupled plasma-AFPC IX.6.C			
Lab	%	Fe2O3	
35	1.34		-2.526

52	1.34	-2.526
266	1.29	-2.000
78	1.24	-1.473
35	1.22	-1.263
78	1.21	-1.158
Std Dev	1.20	-1.000
15	1.14	-0.421
51	1.14	-0.421
75	1.14	-0.417
15	1.13	-0.316
51	1.12	-0.210
75	1.11	-0.150
45	1.10	0.000
45	1.10	0.000
92	1.10	0.000
92	1.10	0.000
Median	1.10	0.000
21	1.07	0.368
6	1.06	0.474
21	1.06	0.474
6	1.05	0.526
9	1.02	0.842
10	1.02	0.842
9	1.02	0.895
10	1.01	0.947
13	1.01	0.947
49	1.01	0.947
13	1.01	1.000
24	1.01	1.000
Std Dev	1.00	1.000
24	0.99	1.158
49	0.99	1.158
270	0.98	1.316

303 Other(describe)		
Lab	%	Fe2O3
77	1.37	-0.863
56	1.34	-0.691
77	1.28	-0.347
65	1.27	-0.284
Median	1.22	0.000
19	1.17	0.284
20	1.08	0.828
Std Dev	1.05	1.000

20	1.02	1.144
69	1.02	1.144

401 Atomic Absorption-AFPC IX.6.B		
Lab	%	Al2O3
55	0.57	0.000
Median	0.57	0.000

402 ICP-induced coupled plasma-AFPC IX.6.C		
Lab	%	Al2O3
266	1.33	-6.376
52	1.15	-4.344
51	1.06	-3.329
78	1.03	-2.990
51	0.97	-2.313
78	0.97	-2.257
35	0.92	-1.749
35	0.89	-1.411
92	0.86	-1.072
Std Dev	0.85	-1.000
92	0.85	-0.959
270	0.82	-0.564
24	0.80	-0.395
21	0.79	-0.226
75	0.78	-0.139
9	0.77	-0.056
49	0.77	-0.056
Median	0.77	0.000
9	0.76	0.056
10	0.76	0.056
21	0.76	0.056
49	0.76	0.056
75	0.76	0.104
10	0.75	0.169
15	0.75	0.169
45	0.75	0.169
15	0.75	0.226
45	0.74	0.282
13	0.73	0.451
13	0.73	0.451
24	0.73	0.451
6	0.70	0.733
6	0.70	0.733
Std Dev	0.68	1.000

69	0.67	1.072
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403 Other(describe)		
Lab	%	Al2O3
56	1.31	-0.917
65	1.25	-0.628
77	1.22	-0.483
77	1.12	0.000
Median	1.12	0.000
19	1.04	0.386
Std Dev	0.91	1.000
20	0.88	1.183
20	0.85	1.304

501 Atomic Absorption-AFPC IX.8.A		
Lab	%	MgO
35	0.57	-1.471
Std Dev	0.55	-1.000
35	0.54	-0.841
275	0.50	0.000
275	0.50	0.000
Median	0.50	0.000
60	0.46	0.946
Std Dev	0.45	1.000
55	0.37	2.733

502 ICP-induced coupled plasma-AFPC IX.8.B		
Lab	%	MgO
6	0.52	-3.350
13	0.51	-2.680
6	0.50	-2.010
21	0.50	-2.010
49	0.49	-1.340
52	0.49	-1.340
266	0.49	-1.340
Std Dev	0.48	-1.000
49	0.48	-0.670
51	0.48	-0.670
92	0.48	-0.670
270	0.48	-0.335
10	0.47	0.000
10	0.47	0.000
13	0.47	0.000
15	0.47	0.000

21	0.47	0.000
51	0.47	0.000
Median	0.47	0.000
9	0.47	0.335
9	0.47	0.335
15	0.46	0.670
24	0.46	0.670
45	0.46	0.670
45	0.46	0.670
69	0.46	0.670
78	0.46	0.670
78	0.46	0.670
92	0.46	0.670
Std Dev	0.46	1.000
24	0.45	1.340
75	0.41	3.752
75	0.40	4.685

503 Other(describe)		
Lab	%	MgO
20	0.50	-0.737
20	0.50	-0.737
56	0.48	-0.067
65	0.48	0.000
Median	0.48	0.000
77	0.47	0.268
Std Dev	0.45	1.000
19	0.43	1.608
77	0.43	1.608

601 Insoluble-AFPC IX.4.A		
Lab	%	Al
55	11.79	-11.027
45	10.66	-4.718
45	10.02	-1.145
Std Dev	9.99	-1.000
49	9.92	-0.586
24	9.92	-0.558
24	9.91	-0.530
35	9.91	-0.530
9	9.91	-0.503
9	9.86	-0.251
21	9.84	-0.140
275	9.84	-0.140

51	9.83	-0.084
15	9.82	0.000
Median	9.82	0.000
35	9.76	0.307
15	9.75	0.391
49	9.74	0.419
10	9.70	0.642
51	9.70	0.642
275	9.67	0.810
10	9.64	0.977
Std Dev	9.64	1.000
26	9.61	1.172
13	9.56	1.424
13	9.52	1.675
21	9.39	2.401
69	1.48	46.537

602 Other(describe)		
Lab	%	AI
19	10.07	-0.597
266	9.95	-0.394
6	9.77	-0.089
Median	9.72	0.000
6	9.67	0.089
Std Dev	9.13	1.000
20	8.93	1.334
20	8.81	1.545

651 Gasometric-AFPC IX.13.B		
Lab	%	CO2
15	4.36	-0.815
15	4.34	-0.763
9	4.30	-0.624
49	4.20	-0.278
9	4.19	-0.243
6	4.16	-0.121
6	4.14	-0.069
Median	4.12	0.000
52	4.10	0.069
13	3.95	0.590
13	3.88	0.850
Std Dev	3.83	1.000
24	3.79	1.145
24	3.75	1.284

49	3.75	1.284
21	3.25	3.018

652 Other(describe)		
Lab	%	CO2
35	7.20	-4.733
35	7.11	-4.587
51	4.95	-1.089
51	4.91	-1.024
Std Dev	4.90	-1.000
20	4.39	-0.174
Median	4.28	0.000
20	4.17	0.174
65	4.12	0.255
55	4.11	0.271
56	3.88	0.644
Std Dev	3.66	1.000
266	3.14	1.842

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
35	48.22	-5.745
69	46.94	-3.503
51	45.85	-1.594
21	45.84	-1.568
45	45.75	-1.419
51	45.62	-1.191
Std Dev	45.51	-1.000
21	45.42	-0.832
92	45.36	-0.736
45	45.28	-0.596
92	45.15	-0.368
49	45.06	-0.210
9	44.98	-0.070
9	44.94	0.000
Median	44.94	0.000
10	44.92	0.035
10	44.90	0.070
35	44.83	0.193
49	44.83	0.193

13	44.76	0.324
6	44.65	0.508
6	44.63	0.552
13	44.55	0.683
Std Dev	44.37	1.000
78	44.34	1.060
78	44.23	1.252
75	42.09	4.990
75	41.78	5.542

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

704 Permanganate		
Lab	%	CaO
60	42.70	0.000
Median	42.70	0.000

705 EDTA Volumetric-AFPC IX.12.C		
Lab	%	CaO
275	45.90	-0.724
275	45.50	0.000
Median	45.50	0.000
Std Dev	44.95	1.000
266	44.42	1.956

706 Other(describe)		
Lab	%	CaO
20	45.52	-0.523
77	45.40	-0.314
20	45.40	-0.305
24	45.32	-0.166
77	45.30	-0.139
24	45.26	-0.070
Median	45.22	0.000
56	45.18	0.070
19	45.00	0.383
Std Dev	44.65	1.000
15	44.57	1.133
15	44.56	1.159
65	44.36	1.499
55	43.34	3.277

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

712 ICP-induced coupled plasma-AFPC IX.12.I			
Lab	%	CaO	dB
35	48.56		-8.692
69	47.34		-5.469
21	46.23		-2.538
21	45.78		-1.328
Std Dev	45.66		-1.000
49	45.52		-0.641
10	45.31		-0.071
10	45.28		-0.018
9	45.28		-0.014
49	45.28		0.000
Median	45.28		0.000
9	45.26		0.057
13	45.11		0.455
6	45.02		0.693
35	45.01		0.699
6	44.97		0.820
Std Dev	44.90		1.000
13	44.90		1.003
75	42.41		7.616
75	42.09		8.452

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

714 Permanganate			
Lab	%	CaO	dB
Median	0.00		0.000

715 EDTA Volumetric-AFPC IX.12.C			
Lab	%	CaO	dB
275	46.15		-0.792
275	45.76		0.000
Median	45.76		0.000
Std Dev	45.26		1.000
266	44.82		1.888

716 Other(describe)			
Lab	%	CaO	dB
20	45.70		-0.554
24	45.68		-0.526
24	45.62		-0.411
77	45.44		-0.098
Median	45.38		0.000
77	45.32		0.098
15	44.86		0.896
15	44.85		0.914
Std Dev	44.80		1.000
55	43.55		3.152

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	3.66		-2.233
6	3.62		-1.723
15	3.61		-1.595
Std Dev	3.56		-1.000
52	3.55		-0.893
24	3.55		-0.830
21	3.53		-0.638
6	3.53		-0.638
69	3.51		-0.383
35	3.50		-0.255
49	3.50		-0.255
9	3.50		-0.191
9	3.49		-0.128
51	3.48		0.000
266	3.48		0.000
Median	3.48		0.000
13	3.48		0.064
13	3.46		0.319
35	3.43		0.638
51	3.43		0.638
21	3.43		0.702
49	3.42		0.766
26	3.41		0.893
Std Dev	3.40		1.000
24	3.40		1.021

75	3.40		1.085
75	3.34		1.787
275	3.21		3.446
275	3.20		3.573
55	3.04		5.615

803 Other(describe)			
Lab	%	Fluorine, F	
19	3.63		-5.559
Std Dev	3.52		-1.000
77	3.51		-0.794
20	3.49		0.000
65	3.49		0.000
Median	3.49		0.000
20	3.47		0.993
Std Dev	3.46		1.000
77	3.43		2.382

911 Atomic Absorption-AFPC			
Lab	ppm	Arsenic, As	
Median	0.0		0.000

912 ICP-induced coupled plasma-AFPC IX.15.B			
Lab	ppm	Arsenic, As	
35	23.0		-1.932
Std Dev	19.9		-1.000
35	19.0		-0.710
270	18.6		-0.573
69	18.0		-0.405
24	17.7		-0.313
24	17.1		-0.130
Median	16.7		0.000
78	16.3		0.130
78	15.1		0.496
51	14.0		0.817
Std Dev	13.4		1.000
51	13.0		1.122
52	12.0		1.428
266	10.1		2.008

913 Other(describe)			
Lab	ppm	Arsenic, As	
65	-		0.000
13	18.0		-2.231

Std Dev	13.8		-1.000
20	10.5		0.000
Median	10.5		0.000
20	9.0		0.449

921 Atomic Absorption-AFPC IX.11.A			
Lab	ppm	Cadmium, Cd	
55	4		0.000
Median	4		0.000

922 ICP-induced coupled plasma-AFPC IX.11.B			
Lab	ppm	Cadmium, Cd	
270	72		-68.008
77	35		-31.233
51	7		-3.023
51	6		-2.015
Std Dev	5		-1.000
78	5		-0.846
78	5		-0.806
75	4		-0.252
75	4		-0.151
35	4		0.000
45	4		0.000
45	4		0.000
Median	4		0.000
52	4		0.202
266	4		0.202
24	3		0.605
24	3		0.907
275	3		0.993
Std Dev	3		1.000
35	3		1.008
275	3		1.290

923 Other(describe)			
Lab	ppm	Cadmium, Cd	
20	7		-0.938
20	6		-0.578
Median	5		0.000
69	4		0.578
13	4		0.956

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

55	6		0.000
Median	6		0.000

932 ICP-induced coupled plasma-AFPC IX.16.A			
Lab	ppm	Cobalt, Co	
78	10		-3.350
78	10		-3.350
Std Dev	8		-1.000
45	8		-0.670
45	8		-0.670
270	8		-0.536
266	8		-0.402
77	8		0.000
Median	8		0.000
75	7		0.335
35	7		0.670
35	7		0.670
75	7		0.804
Std Dev	7		1.000
24	6		2.211
24	6		2.412

933 Other(describe)			
Lab	ppm	Cobalt, Co	
13	10		-1.089
Std Dev	9		-1.000
69	8		-0.575
Median	5		0.000
20	3		0.575
20	2		0.820

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	
35	1.1		-3.815
Std Dev	0.4		-1.000
35	0.2		-0.215
Median	0.1		0.000
266	0.1		0.215
270	0.1		0.254

943 Other(describe)			
Lab	ppm	Mercury, Hg	
13	0.6		-1.340
Std Dev	0.5		-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	Iolybdenum, Mo	
55	8		0.000
Median	8		0.000

952 ICP-induced coupled plasma-AFPC IX.16.A			
Lab	ppm	Iolybdenum, Mo	
45	12		-3.092
45	11		-2.268
266	10		-1.154
Std Dev	9		-1.000
270	9		-0.577
24	9		-0.289
24	8		0.000
Median	8		0.000
78	8		0.124
78	8		0.412
77	8		0.536
Std Dev	7		1.000
20	5		2.680
20	2		5.154

953 Other(describe)			
Lab	ppm	Iolybdenum, Mo	
13	9		-1.340
Std Dev	9		-1.000
Median	8		0.000
Std Dev	7		1.000
69	7		1.340

961 Atomic Absorption-AFPC IX.16.B			
Lab	ppm	Nickel, Ni	
55	17		0.000
Median	17		0.000

962 ICP-induced coupled plasma-AFPC IX.16.A			
Lab	ppm	Nickel, Ni	
52	34		-4.079
35	32		-2.182
Std Dev	31		-1.000
75	31		-0.996
24	31		-0.806
77	30		-0.285
270	30		-0.285
75	30		-0.190
Median	30		0.000
78	30		0.190
24	29		0.474
35	29		0.664
78	29		0.664
Std Dev	29		1.000
266	28		1.518
45	20		9.202
45	20		9.202

963 Other(describe)			
Lab	ppm	Nickel, Ni	
19	41		-1.569
Std Dev	37		-1.000
19	37		-0.938
13	33		-0.244
Median	31		0.000
20	30		0.244
69	27		0.686
20	25		0.954

971 Atomic Absorption-AFPC IX.16.B			
Lab	ppm	Lead, Pb	
55	8		0.000
Median	8		0.000

972 ICP-induced coupled plasma-AFPC IX.16.A			
Lab	ppm	Lead, Pb	
266	13		-0.662
275	12		-0.493
51	12		-0.490
275	12		-0.470
51	11		-0.245
270	11		-0.184

35	10		0.000
Median	10		0.000
77	8		0.441
35	8		0.490
78	6		0.870
78	6		0.883
Std Dev	6		1.000
24	5		1.275
24	3		1.765

973 Other(describe)			
Lab	ppm	Lead, Pb	
20	11		-0.655
13	10		-0.544
Median	7		0.000
20	5		0.544
Std Dev	2		1.000
69	0		1.443

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	1		0.000
Median	1		0.000

983 Other(describe)			
Lab	ppm	Selenium, Se	
13	5		-1.340
Std Dev	4		-1.000
Median	3		0.000
Std Dev	1		1.000
69	0		1.340

991 Atomic Absorption-AFPC IX.16.B			
Lab	ppm	Zinc, Zn	
60	95		-1.340
Std Dev	91		-1.000
Median	79		0.000
Std Dev	66		1.000
55	62		1.340

992 ICP-induced coupled plasma-AFPC IX.16.A			
Lab	ppm	Zinc, Zn	
24	116		-5.474
24	105		-4.297
75	84		-2.220
75	75		-1.316
Std Dev	72		-1.000
78	67		-0.503
52	66		-0.402
77	65		-0.301
78	64		-0.200
Median	62		0.000
275	60		0.200
275	60		0.223
266	58		0.437
35	56		0.609
35	55		0.710
45	55		0.710
45	55		0.710
270	55		0.710

993 Other(describe)			
Lab	ppm	Zinc, Zn	
20	106		-2.798
19	85		-1.417
Std Dev	79		-1.000
19	67		-0.205
Median	64		0.000
69	61		0.205
20	61		0.232
13	58		0.377