

AFPC Rock Check Program

Sample No. 2022-05

	Method #	# of Anal.	Grand Median	Std Dev
Moisture				
Ground Sample AFPC IX.2.A	101	22	0.78	0.081
Other (describe)	102	10	0.92	0.097
Method Group 100		32	0.80	0.10
P₂O₅				
Gravimetric AFPC IX.3.B	201	6	27.96	0.119
ICP-induced coupled plasma AFPC IX.3.D	202	3	28.01	0.071
AOAC 962.02-15th	203	4	27.84	0.149
Photometric-AFPC IX.3.C	204	23	28.03	0.174
Automated -AOAC 978.01-15th	205	10	27.99	0.034
Method Group 200		46	27.99	0.16
P₂O₅ (on Dry Basis)				
Gravimetric AFPC IX.3.B	211	3	28.10	0.191
ICP-induced coupled plasma AFPC IX.3.D	212	2	28.16	0.052
AOAC 962.02-15th	213	4	28.06	0.169
Photometric-AFPC IX.3.C	214	16	28.23	0.152
Automated -AOAC 978.01-15th	215	7	28.23	0.047
Method Group 210		32	28.22	0.15
Fe₂O₃				
Atomic Absorption-AFPC IX.6.B	301	1	0.55	0.000
ICP-induced coupled plasma-AFPC IX.6.C	302	30	0.62	0.057
Other(describe)	303	4	0.67	0.046
Method Group 300		35	0.62	0.06
Al₂O₃				
Atomic Absorption-AFPC IX.7.B	401	1	0.88	0.000
ICP-induced coupled plasma-AFPC IX.7.C	402	29	0.94	0.112
Other(describe)	403	4	1.69	0.053
Method Group 400		34	0.96	0.10
MgO				
Atomic Absorption-AFPC IX.8.A	501	1	0.45	0.000
ICP-induced coupled plasma-AFPC IX.8.B	502	30	0.46	0.017
Other(describe)	503	4	0.48	0.001
Method Group 500		35	0.46	0.02
Acid Insoluble				
Insoluble-AFPC IX.4.A	601	19	12.77	0.300
Other(describe)	602	3	11.63	0.345
Method Group 600		22	12.57	0.39
Carbon Dioxide				
Gasometric-AFPC IX.13.B	651	13	3.89	0.250
Other(describe)	652	15	4.23	0.597
Method Group 650		28	4.09	0.30
CaO				
Gravimetric sulfate-AFPC IX.12.A	701	2	42.33	0.276
ICP-induced coupled plasma-AFPC IX.12.D	702	17	42.39	0.168
Ceric Sulfate volumetric-AFPC IX.12.B	703			
Permanganate	704	3	42.55	0.521
EDTA Volumetric-AFPC IX.12.C	705	1	42.39	0.000
Other(describe)	706	13	42.55	0.190
Method Group 700		36	42.45	0.18
CaO (on Dry Basis)				
Gravimetric sulfate-AFPC IX.12.A	711	1	42.38	0.000
ICP-induced coupled plasma-AFPC IX.12.D	712	12	42.73	0.270
Ceric Sulfate volumetric-AFPC IX.12.B	713			
Permanganate	714	3	42.72	0.545
EDTA Volumetric-AFPC IX.12.C	715			
Other(describe)	716	10	42.91	0.157
Method Group 710		26	42.77	0.37

	Method #	# of Anal.	Grand Median	Std Dev
Fluorine, F				
Volumetric-AFPC IX.14.A	801			
Specific Ion Electrode-AFPC IX.14.B	802	28	2.91	0.114
Other(describe)	803	4	2.87	0.042
Method Group 800		32	2.90	0.09
Arsenic, As				
Atomic Absorption	911	1	11.0	0.00
ICP-induced coupled plasma-AFPC IX.15.B	912	16	11.2	2.25
Other(describe)	913	3	9.0	0.82
Method Group 900		20	10.9	2.16
Cadmium, Cd				
Atomic Absorption-AFPC IX.11.A	921	2	78	5.6
ICP-induced coupled plasma-AFPC IX.11.B	922	19	72	5.4
Other(describe)	923	2	78	1.3
Method Group 910		23	73	6.3
Cobalt, Co				
Atomic Absorption-AFPC IX.16.B	931	1	1	0.0
ICP-induced coupled plasma-AFPC IX.16.A	932	9	1	1.9
Other(describe)	933	2	2	0.1
Method Group 920		12	1	0.7
Mercury, Hg				
Atomic Absorption-AFPC IX.16.B	941	1	0.1	0.00
ICP-induced coupled plasma-AFPC IX.16.A	942	5		0.16
Other(describe)	943	1		0.00
Method Group 930		7	0.0	0.10
Molybdenum, Mo				
Atomic Absorption-AFPC IX.16.B	951	1	15	0.0
ICP-induced coupled plasma-AFPC IX.16.A	952	12	15	1.7
Other(describe)	953	2	16	1.7
Method Group 940		15	15	1.6
Nickel, Ni				
Atomic Absorption-AFPC IX.16.B	961	1	102	0.0
ICP-induced coupled plasma-AFPC IX.16.A	962	17	103	6.1
Other(describe)	963	3	95	9.6
Method Group 950		21	103	9.4
Lead, Pb				
Atomic Absorption-AFPC IX.16.B	971	1	6	0.0
ICP-induced coupled plasma-AFPC IX.16.A	972	21	10	2.2
Other(describe)	973	2	7	1.4
Method Group 960		24	9	2.2
Selenium, Se				
Atomic Absorption-AFPC IX.16.B	981			
ICP-induced coupled plasma-AFPC IX.16.A	982	3	24	1.9
Other(describe)	983	2	34	7.5
Method Group 970		5	24	0.9
Zinc, Zn				
Atomic Absorption-AFPC IX.16.B	991	1	926	0
ICP-induced coupled plasma-AFPC IX.16.A	992	16	771	82
Other(describe)	993	3	814	159
Method Group 980		20	791	90

101 Ground Sample AFPC IX.2.A			
Lab	%	H ₂ O	
24	0.94	-1.910	
24	0.92	-1.663	
13	0.91	-1.602	
13	0.87	-1.047	
Std Dev	0.86	-1.000	
21	0.84	-0.739	
10	0.83	-0.616	
30	0.83	-0.554	
21	0.82	-0.431	
10	0.79	-0.123	
26	0.79	-0.123	
26	0.78	0.000	
77	0.78	0.000	
Median	0.78	0.000	
9	0.78	0.062	
9	0.77	0.123	
77	0.76	0.246	
49	0.74	0.554	
113	0.72	0.801	
Std Dev	0.70	1.000	
27	0.70	1.047	
16	0.48	3.715	
16	0.47	3.863	
55	0.40	4.744	
270	0.32	5.668	

102 Other (describe)			
Lab	%	H ₂ O	
25	1.00	-0.827	
86	0.99	-0.644	
86	0.99	-0.644	
85	0.98	-0.593	
85	0.97	-0.438	
Median	0.92	0.000	
35	0.88	0.438	
84	0.87	0.593	
84	0.85	0.747	
Std Dev	0.83	1.000	
35	0.79	1.366	
275	0.71	2.144	

201 Gravimetric AFPC IX.3.B			
Lab	%	P2O5	
77	28.35	-3.245	
22	28.10	-1.152	
Std Dev	28.08	-1.000	
56	27.98	-0.105	
Median	27.96	0.000	
55	27.95	0.105	
113	27.90	0.565	
Std Dev	27.84	1.000	
241	27.76	1.696	

202 ICP-induced coupled plasma AFPC IX.3.D			
Lab	%	P2O5	
82	28.05	-0.564	
10	28.01	0.000	
Median	28.01	0.000	
Std Dev	27.94	1.000	
10	27.86	2.116	

203 AOAC 962.02-15th			
Lab	%	P2O5	
27	28.11	-1.775	
Std Dev	27.99	-1.000	
9	27.85	-0.067	
Median	27.84	0.000	
9	27.83	0.067	
Std Dev	27.69	1.000	
270	27.37	3.182	

204 Photometric-AFPC IX.3.C			
Lab	%	P2O5	
25	29.00	-5.591	
10	28.24	-1.239	
10	28.24	-1.239	
Std Dev	28.20	-1.000	
21	28.18	-0.865	
30	28.15	-0.720	
51	28.10	-0.432	
49	28.10	-0.403	
16	28.09	-0.389	
51	28.07	-0.231	
13	28.06	-0.202	
275	28.04	-0.086	

13	28.03	0.000	
21	28.03	0.000	
Median	28.03	0.000	
16	28.00	0.167	
82	27.98	0.288	
24	27.87	0.893	
24	27.87	0.922	
92	27.87	0.922	
Std Dev	27.85	1.000	
92	27.82	1.210	
26	27.81	1.239	
26	27.81	1.239	
35	27.79	1.354	
35	27.69	1.931	

205 Automated -AOAC 978.01-15th			
Lab	%	P2O5	
81	28.20	-6.402	
86	28.03	-1.191	
Std Dev	28.02	-1.000	
77	28.02	-0.893	
86	28.01	-0.596	
56	27.99	0.000	
85	27.99	0.000	
Median	27.99	0.000	
84	27.98	0.298	
22	27.97	0.596	
84	27.96	0.744	
Std Dev	27.95	1.000	
85	27.91	2.233	

211 Gravimetric AFPC IX.3.B			
Lab	%	P2O5	dB
77	28.57	-2.497	
Std Dev	28.29	-1.000	
113	28.10	0.000	
Median	28.10	0.000	
55	28.06	0.183	

212 ICP-induced coupled plasma AFPC IX.3.D			
Lab	%	P2O5	dB
10	28.23	-1.340	
Std Dev	28.22	-1.000	
Median	28.16	0.000	

Std Dev	28.11	1.000	
10	28.09	1.340	

213 AOAC 962.02-15th			
Lab	%	P2O5	dB
27	28.30	-1.451	
Std Dev	28.23	-1.000	
9	28.07	-0.055	
Median	28.06	0.000	
9	28.05	0.055	
Std Dev	27.89	1.000	
270	27.45	3.576	

214 Photometric-AFPC IX.3.C			
Lab	%	P2O5	dB
25	29.29	-6.927	
21	28.41	-1.176	
Std Dev	28.39	-1.000	
30	28.38	-0.983	
13	28.30	-0.461	
49	28.30	-0.449	
13	28.28	-0.313	
21	28.26	-0.135	
275	28.24	-0.047	
Median	28.23	0.000	
16	28.23	0.047	
24	28.13	0.668	
16	28.13	0.706	
24	28.12	0.738	
Std Dev	28.08	1.000	
26	28.03	1.336	
26	28.03	1.354	
35	28.01	1.468	
35	27.94	1.964	

215 Automated -AOAC 978.01-15th			
Lab	%	P2O5	dB
86	28.30	-1.570	
86	28.28	-1.143	
Std Dev	28.28	-1.000	
85	28.26	-0.685	
77	28.23	0.000	
Median	28.23	0.000	
84	28.22	0.221	

84	28.20	0.631
Std Dev	28.18	1.000
85	28.18	1.006

301	Atomic Absorption-AFPC IX.6.B	
Lab	% Fe2O3	
55	0.55	0.000
Median	0.55	0.000

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

35	0.81	-3.427
35	0.77	-2.636
Std Dev	0.67	-1.000
22	0.67	-0.967
16	0.67	-0.925
81	0.67	-0.879
51	0.66	-0.703
16	0.65	-0.665
82	0.65	-0.615
51	0.64	-0.351
85	0.63	-0.264
85	0.63	-0.264
84	0.63	-0.176
84	0.63	-0.176
270	0.63	-0.176
21	0.62	-0.088
Median	0.62	0.000
86	0.61	0.088
86	0.61	0.088
92	0.61	0.176
92	0.61	0.176
24	0.60	0.264
49	0.58	0.703
21	0.57	0.791
24	0.57	0.791
10	0.57	0.791
9	0.57	0.879
13	0.57	0.879
9	0.56	0.967
10	0.56	0.967
Std Dev	0.56	1.000
13	0.56	1.054
27	0.54	1.318

303	Other(describe)	
Lab	% Fe2O3	
77	0.70	-0.602
77	0.70	-0.602
Median	0.67	0.000
22	0.65	0.602
Std Dev	0.63	1.000
56	0.62	1.149

401	Atomic Absorption-AFPC IX.6.B	
Lab	% Al2O3	
55	0.88	0.000
Median	0.88	0.000

402	ICP-induced coupled plasma-AFPC IX.6.C
Lab	% Al2O3

35	1.27	-2.977
35	1.23	-2.619
270	1.10	-1.458
Std Dev	1.05	-1.000
21	1.03	-0.833
22	1.00	-0.565
86	0.99	-0.431
84	0.98	-0.386
85	0.98	-0.386
16	0.98	-0.348
21	0.98	-0.341
86	0.97	-0.297
84	0.97	-0.252
82	0.96	-0.207
81	0.95	-0.118
16	0.94	0.000
Median	0.94	0.000
85	0.93	0.061
49	0.92	0.150
9	0.91	0.239
92	0.89	0.463
24	0.87	0.597
92	0.86	0.686
24	0.83	0.954
Std Dev	0.82	1.000
9	0.80	1.222
51	0.79	1.311

13	0.78	1.401
51	0.76	1.579
10	0.74	1.758
13	0.74	1.758
10	0.71	2.026

403	Other(describe)	
Lab	% Al2O3	
77	1.73	-0.705
77	1.71	-0.329
Median	1.69	0.000
56	1.68	0.329
Std Dev	1.64	1.000
22	1.55	2.680

501	Atomic Absorption-AFPC IX.8.A	
Lab	% MgO	
55	0.45	0.000
Median	0.45	0.000

502	ICP-induced coupled plasma-AFPC IX.8.B
Lab	% MgO

22	0.50	-2.531
49	0.50	-2.233
13	0.48	-1.340
21	0.48	-1.340
82	0.48	-1.340
92	0.48	-1.340
Std Dev	0.47	-1.000
35	0.47	-0.744
92	0.47	-0.744
21	0.47	-0.447
27	0.46	-0.298
9	0.46	-0.149
10	0.46	-0.149
24	0.46	-0.149
24	0.46	-0.149
81	0.46	-0.149
Median	0.46	0.000
85	0.46	0.149
16	0.45	0.262
16	0.45	0.351
9	0.45	0.447
10	0.45	0.447

35	0.45	0.447
84	0.45	0.447
13	0.45	0.744
51	0.45	0.744
Std Dev	0.44	1.000
85	0.44	1.042
86	0.44	1.042
86	0.44	1.042
84	0.44	1.340
270	0.44	1.340
51	0.43	1.936

503	Other(describe)	
Lab	% MgO	
77	0.49	-5.360
Std Dev	0.48	-1.000
22	0.48	0.000
56	0.48	0.000
77	0.48	0.000
Median	0.48	0.000

601	Insoluble-AFPC IX.4.A
Lab	% Al

21	13.24	-1.565
Std Dev	13.07	-1.000
22	13.05	-0.932
26	12.99	-0.749
26	12.97	-0.682
49	12.94	-0.583
51	12.93	-0.533
51	12.84	-0.250
55	12.84	-0.250
16	12.79	-0.083
16	12.77	0.000
Median	12.77	0.000
10	12.58	0.616
30	12.57	0.666
24	12.57	0.666
24	12.54	0.749
10	12.52	0.816
Std Dev	12.46	1.000
13	12.36	1.348
13	12.30	1.565
9	12.08	2.297

9 12.07 2.314

602 Other(describe)		
Lab	%	AI

21	12.43	-2.303
Std Dev	11.98	-1.000
35	11.63	0.000
Median	11.63	0.000
35	11.50	0.377

651 Gasometric-AFPC IX.13.B		
Lab	%	CO2

9	4.26	-1.469
9	4.25	-1.429
30	4.18	-1.149
Std Dev	4.14	-1.000
21	4.02	-0.509
21	4.02	-0.509
13	3.97	-0.309
16	3.89	0.000
Median	3.89	0.000
16	3.88	0.045
77	3.80	0.371
24	3.69	0.831
Std Dev	3.64	1.000
24	3.58	1.251
49	3.57	1.291
13	3.09	3.211

652 Other(describe)		
Lab	%	CO2

35	8.79	-7.638
35	8.66	-7.420
51	5.32	-1.826
51	5.23	-1.675
Std Dev	4.82	-1.000
81	4.55	-0.544
86	4.30	-0.126
86	4.25	-0.042
84	4.23	0.000
Median	4.23	0.000
84	4.22	0.017
55	4.11	0.193
85	4.11	0.201

85	4.07	0.260
82	3.87	0.595
22	3.75	0.804
56	3.74	0.821

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

22	42.70	-1.340
Std Dev	42.61	-1.000
Median	42.33	0.000
Std Dev	42.05	1.000
25	41.96	1.340

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

16	42.85	-2.710
16	42.62	-1.340
49	42.58	-1.132
Std Dev	42.56	-1.000
51	42.54	-0.893
13	42.53	-0.804
51	42.49	-0.566
13	42.45	-0.357
82	42.44	-0.298
10	42.39	0.000
Median	42.39	0.000
9	42.38	0.060
10	42.35	0.238
92	42.32	0.447
92	42.30	0.536
Std Dev	42.22	1.000
21	42.15	1.429
9	42.06	1.965
21	42.02	2.204
270	41.84	3.276

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

Median	0.00	0.000
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704 Permanganate		
Lab	%	CaO

30	42.55	0.000
55	42.55	0.000

Median	42.55	0.000
Std Dev	42.03	1.000
27	41.16	2.680

705 EDTA Volumetric-AFPC IX.12.C		
Lab	%	CaO

81	42.39	0.000
Median	42.39	0.000

706 Other(describe)		
Lab	%	CaO

77	43.35	-4.178
77	42.97	-2.207
Std Dev	42.74	-1.000
82	42.73	-0.946
56	42.64	-0.447
84	42.55	0.000
86	42.55	0.000
86	42.55	0.000
Median	42.55	0.000
85	42.48	0.368
84	42.41	0.736
22	42.38	0.893
Std Dev	42.36	1.000
85	42.34	1.104
24	41.94	3.205
24	41.65	4.756

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

25	42.38	0.000	
Median	42.38	0.000	

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

16	43.05	-1.195	
Std Dev	43.00	-1.000	
13	42.92	-0.694	
49	42.90	-0.619	
13	42.82	-0.342	
16	42.81	-0.321	
10	42.74	-0.062	
Median	42.73	0.000	
9	42.71	0.062	

10	42.69	0.150
21	42.51	0.817
Std Dev	42.46	1.000
9	42.39	1.263
21	42.37	1.341
270	41.97	2.788

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

Median	0.00	0.000	
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714 Permanganate			
Lab	%	CaO	dB

30	42.90	-0.340	
55	42.72	0.000	
Median	42.72	0.000	
Std Dev	42.17	1.000	
27	41.44	2.340	

715 EDTA Volumetric-AFPC IX.12.C			
Lab	%	CaO	dB

Median	0.00	0.000	
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716 Other(describe)			
Lab	%	CaO	dB

77	43.69	-4.951	
77	43.30	-2.491	
Std Dev	43.06	-1.000	
86	42.97	-0.418	
86	42.97	-0.418	
84	42.92	-0.087	
Median	42.91	0.000	
85	42.89	0.087	
84	42.77	0.853	
85	42.76	0.945	
Std Dev	42.75	1.000	
24	42.34	3.638	
24	42.03	5.586	

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

Median	0.00	0.000	
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802 Specific Ion Electrode-AFPC IX.14.B			
Lab	%	Fluorine, F	
22	3.02		-0.945
26	2.98		-0.637
26	2.98		-0.637
35	2.98		-0.593
24	2.97		-0.505
24	2.97		-0.505
35	2.96		-0.417
13	2.94		-0.286
81	2.94		-0.286
9	2.94		-0.242
9	2.94		-0.242
30	2.93		-0.198
21	2.92		-0.110
16	2.91		-0.022
Median	2.91		0.000
13	2.91		0.022
55	2.90		0.066
16	2.89		0.154
21	2.87		0.373
27	2.85		0.549
51	2.83		0.681
49	2.80		0.989
Std Dev	2.79		1.000
51	2.78		1.120
86	2.78		1.120
86	2.77		1.208
84	2.75		1.428
84	2.73		1.560
270	2.70		1.823
82	2.67		2.131

803 Other(describe)			
Lab	%	Fluorine, F	
22	3.00		-2.918
Std Dev	2.91		-1.000
77	2.89		-0.298
Median	2.87		0.000
77	2.86		0.298
275	2.85		0.655

911 Atomic Absorption-AFPC			
Lab	ppm	Arsenic, As	
16	81		-1.597

55	11.0		0.000
Median	11.0		0.000

912 ICP-induced coupled plasma-AFPC IX.15.B			
Lab	ppm	Arsenic, As	
85	33.5		-9.916
85	32.5		-9.471
24	14.2		-1.324
24	14.1		-1.280
Std Dev	13.5		-1.000
35	12.5		-0.568
22	12.4		-0.530
35	12.0		-0.345
81	11.5		-0.100
Median	11.2		0.000
270	11.0		0.100
16	10.3		0.427
84	10.0		0.545
84	10.0		0.545
16	9.6		0.741
51	9.5		0.768
82	9.1		0.946
Std Dev	9.0		1.000
51	8.5		1.213

913 Other(describe)			
Lab	ppm	Arsenic, As	
13	10.7		-2.053
Std Dev	9.8		-1.000
25	9.0		0.000
Median	9.0		0.000
77	8.5		0.627

921 Atomic Absorption-AFPC IX.11.A			
Lab	ppm	Cadmium, Cd	
55	85		-1.340
Std Dev	83		-1.000
Median	78		0.000
Std Dev	72		1.000
86	70		1.340

922 ICP-induced coupled plasma-AFPC IX.11.B			
Lab	ppm	Cadmium, Cd	
16	81		-1.597

16	81		-1.550
77	81		-1.513
77	80		-1.326
270	79		-1.307
Std Dev	78		-1.000
22	77		-0.850
82	76		-0.728
24	75		-0.430
35	73		-0.112
85	72		0.000
Median	72		0.000
85	72		0.140
84	72		0.168
86	72		0.168
35	71		0.261
51	71		0.261
84	71		0.355
51	70		0.448
24	70		0.476
81	70		0.510

923 Other(describe)			
Lab	ppm	Cadmium, Cd	
13	80		-1.340
Std Dev	80		-1.000
Median	78		0.000
Std Dev	77		1.000
25	77		1.340

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	
35	<1		0.000
35	<1		0.000
77	<1		0.000
24	16		-7.360
27	9		-3.623
77	4		-1.304
Std Dev	3		-1.000
82	2		-0.015

81	1		0.000
Median	1		0.000
22	1		0.005
270	1		0.036
16			0.041
16			0.108

933 Other(describe)			
Lab	ppm	Cobalt, Co	
13	2		-1.340
Std Dev	2		-1.000
Median	2		0.000
Std Dev	2		1.000
25	1		1.340

941 Atomic Absorption-AFPC IX.16.B			
Lab	ppm	Mercury, Hg	
81	0.1		0.000
Median	0.1		0.000

942 ICP-induced coupled plasma-AFPC IX.16.			
Lab	ppm	Mercury, Hg	
35	<1		0.000
35	<1		0.000
24	91.8		#####
270	0.2		-1.340
Std Dev	0.2		-1.000
16	0.0		0.000
16	0.0		0.000
22	0.0		0.000
Median			0.000

943 Other(describe)			
Lab	ppm	Mercury, Hg	
13	<0.03		0.000
25	0.0		0.000
Median	0.0		0.000

951 Atomic Absorption-AFPC IX.16.B			
Lab	ppm	Iolybdenum, Mo	
55	15		0.000
Median	15		0.000

952 ICP-induced coupled plasma-AFPC IX.16.A			
Lab	ppm	Iolymbdenum, Mo	
77	19	-2.181	
Std Dev	17	-1.000	
85	17	-0.978	
77	16	-0.376	
85	16	-0.376	
24	16	-0.226	
16	16	-0.165	
Median	15	0.000	
16	15	0.165	
24	15	0.406	
81	14	0.869	
Std Dev	14	1.000	
82	13	1.248	
270	13	1.489	
22	13	1.699	

953 Other(describe)			
Lab	ppm	Iolymbdenum, Mo	
13	18	-1.340	
Std Dev	18	-1.000	
Median	16	0.000	
Std Dev	14	1.000	
25	14	1.340	

961 Atomic Absorption-AFPC IX.16.B			
Lab	ppm	Nickel, Ni	
55	102	0.000	
Median	102	0.000	

962 ICP-induced coupled plasma-AFPC IX.16.A			
Lab	ppm	Nickel, Ni	
81	132	-4.744	
82	112	-1.467	
16	111	-1.223	
Std Dev	109	-1.000	
16	109	-0.978	
35	108	-0.815	
84	104	-0.082	
84	104	-0.082	
86	104	-0.082	
85	103	0.000	
86	103	0.000	

963 Other(describe)			
Lab	ppm	Nickel, Ni	
22	113	-1.796	
Std Dev	105	-1.000	
25	95	0.000	
Median	95	0.000	
13	87	0.884	

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	
27	32	-10.064	
270	17	-3.179	
Std Dev	12	-1.000	
77	12	-0.822	
85	12	-0.591	
86	11	-0.476	
84	11	-0.360	
85	11	-0.360	
86	11	-0.337	
84	11	-0.129	
22	10	-0.005	
16	10	0.000	
Median	10	0.000	
35	10	0.333	
51	9	0.564	
16	9	0.725	
81	8	0.825	
82	8	0.980	
Std Dev	8	1.000	

973 Other(describe)			
Lab	ppm	Lead, Pb	
25	9	-1.340	
Std Dev	9	-1.000	
Median	7	0.000	
Std Dev	6	1.000	
13	5	1.340	

981 Atomic Absorption-AFPC IX.16.B			
Lab	ppm	Selenium, Se	
51	8	1.026	
77	8	1.026	
35	8	1.257	
24	5	2.273	
24	5	2.320	

982 ICP-induced ed coupled plasma-AFPC IX.16.A			
Lab	ppm	Selenium, Se	
16	25	-0.593	
16	24	0.000	
Median	24	0.000	
Std Dev	22	1.000	
22	20	2.087	

983 Other(describe)			
Lab	ppm	Selenium, Se	
13	44	-1.340	
Std Dev	42	-1.000	
Median	34	0.000	
Std Dev	27	1.000	
25	24	1.340	

988 Other(describe)			
Lab	ppm	Zinc, Zn	
55	926	0.000	
Median	926	0.000	

991 Atomic Absorption-AFPC IX.16.B			
Lab	ppm	Zinc, Zn	
55	926	0.000	
Median	926	0.000	

992 ICP-induced coupled plasma-AFPC IX.16.A			
Lab	ppm	Zinc, Zn	
82	989	-2.640	
77	883	-1.355	
Std Dev	854	-1.000	

993 Other(describe)			
Lab	ppm	Zinc, Zn	
25	861	-0.299	
22	814	0.000	
Median	814	0.000	
Std Dev	655	1.000	
13	436	2.381	

999 Other(describe)			
Lab	ppm	Zinc, Zn	
24	843	-0.865	
24	832	-0.732	
16	822	-0.609	
16	813	-0.500	
77	806	-0.421	
85	777	-0.064	
Median	771	0.000	
85	766	0.064	
81	752	0.233	
22	722	0.597	
35	714	0.700	
84	714	0.700	
84	708	0.773	
35	700	0.870	
Std Dev	689	1.000	
270	685	1.046	

999 Other(describe)			
Lab	ppm	Zinc, Zn	
25	861	-0.299	
22	814	0.000	
Median	814	0.000	
Std Dev	655	1.000	
13	436	2.381	