AFPC Rock Check Program

Sample No. 2015-05

	Method #	# of Anal.	Grand Median	Std Dev
Moisture				
Ground Sample AFPC IX.2.A	101	30	0.56	0.063
Other (describe)	102	1	0.19	
Method Group 100		31	0.56	0.07
P_2O_5				
Gravimetric AFPC IX.3.B	201	4	28.73	0.044
ICP-inducted coupled plasma AFPC IX.3.D	202	4	28.67	0.142
Photometric-AFPC IX.3.C	203	19	28.85	0.246
Automated -AOAC 978.01-15th	204	11	28.64	0.110
Other(describe)	205	2	28.85	0.119
Method Group 200		40	28.70	0.23
P_2O_5 (on Dry Basis)				
Gravimetric AFPC IX.3.B	211	3	28.84	0.048
ICP-inducted coupled plasma AFPC IX.3.D	212	4	28.82	0.122
Photometric-AFPC IX.3.C	213	12	29.03	0.269
Automated -AOAC 978.01-15th	214	11	28.77	0.088
Other(describe)	215	1	28.74	0.000
Method Group 210		31	28.84	0.22
Fe_2O_3				
Atomic Absorption-AFPC IX.6.B	301	4	0.53	0.022
ICP-inducted coupled plasma-AFPC IX.6.C	302	30	0.54	0.029
Other(describe)	303	4	0.59	0.018
Method Group 300		38	0.54	0.03
Al_2O_3				
Atomic Absorption-AFPC IX.7.B	401	2	0.73	0.254
ICP-inducted coupled plasma-AFPC IX.7.C	402	30	0.82	0.205
Other(describe)	403	4	1.52	0.121
Method Group 400		36	0.85	0.30
MgO				
Atomic Absorption-AFPC IX.8.A	501	6	0.45	0.022
ICP-inducted coupled plasma-AFPC IX.8.B	502	28	0.46	0.019
Other(describe)	503	4	0.45	0.011
Method Group 500		38	0.45	0.02
Acid Insoluble				
Insoluble-AFPC IX.4.A	601	24	12.93	0.410
Other(describe)	602	2	13.58	0.056
Method Group 600		26	12.98	0.51
Carbon Dioxide				
Gasometric-AFPC IX.13.B	651	16	4.09	0.064
Other(describe)	652	7	8.00	3.517
Method Group 650		23	4.09	0.23
CaO				
Gravimetric sulfate-AFPC IX.12.A	701			
ICP-inducted coupled plasma-AFPC IX.12.D	702	21	43.21	0.694
Ceric Sulfate volumetric-AFPC IX.12.B	703			
Permanganate	704	2	43.48	0.651
EDTA Volumetric-AFPC IX.12.C	705	3	43.50	0.030
Other(describe)	706	10	43.28	0.294
Method Group 700		36	43.28	0.45
CaO (on Dry Basis)				
Gravimetric sulfate-AFPC IX.12.A	711			
ICP-inducted coupled plasma-AFPC IX.12.D	712	15	43.43	0.404
Ceric Sulfate volumetric-AFPC IX.12.B	713			
Permanganate	714	1	42.77	0.000
EDTA Volumetric-AFPC IX.12.C	715	3	43.76	0.125
Other(describe)	716	9	43.53	0.233
Method Group 710		27	43.52	0.32

	Method #	# of Anal.	Grand Median	Std Dev
Fluorine, F				
Volumetric-AFPC IX.14.A	801			
Specific Ion Electrode-AFPC IX.14.B	802	25	2.93	0.104
Oher(describe)	803	3	2.95	0.078
Method Group 800		28	2.94	0.10
Arsenic, As				
Atomic Absorption	911			
ICP-inducted coupled plasma-AFPC IX.15.B	912	12	10.7	3.68
Other(describe)	913	2	5.8	3.06
Method Group 900		14	10.2	3.83
Cadmium, Cd				
Atomic Absorption-AFPC IX.11.A	921			
ICP-inducted coupled plasma-AFPC IX.11.B	922	17	78	7.3
Other(describe)	923	1	78	0.0
Method Group 910		18	78	6.7
Cobalt, Co				
Atomic Absorption-AFPC IX.16.B	931	1	3	0.0
ICP-inducted coupled plasma-AFPC IX.16.A	932	15	1	0.9
Other(describe)	933	1	2	0.0
Method Group 920		17	2	0.7
Mercury, Hg				
Atomic Absorption-AFPC IX.16.B	941			
ICP-inducted coupled plasma-AFPC IX.16.A	942	3	1.0	0.49
Other(describe)	943	2	0.4	0.33
Method Group 930		5	0.9	0.53
Molybdenum, Mo				
Atomic Absorption-AFPC IX.16.B	951	1	9	0.0
ICP-inducted coupled plasma-AFPC IX.16.A	952	11	7	1.3
Other(describe)	953	1	9	0.0
Method Group 940		13	7	1.2
Nickel, Ni				
Atomic Absorption-AFPC IX.16.B	961	1	51	0.0
ICP-inducted coupled plasma-AFPC IX.16.A	962	17	80	7.8
Other(describe)	963	3	88	17.2
Method Group 950		21	80	17.5
Lead, Pb				
Atomic Absorption-AFPC IX.16.B	971	1	3	0.0
ICP-inducted coupled plasma-AFPC IX.16.A	972	11	6	6.3
Other(describe)	973	1	5	0.0
Method Group 960		13	5	5.1
Selenium, Se				
Atomic Absorption-AFPC IX.16.B	981			
ICP-inducted coupled plasma-AFPC IX.16.A	982	3	2	3.9
Other(describe)	983	1	11	0.0
Method Group 970		4	7	7.2
Zinc, Zn				
Atomic Absorption-AFPC IX.16.B	991	2	605	61
ICP-inducted coupled plasma-AFPC IX.16.A	992	15	708	48
Other(describe)	993	3	680	25
Method Group 980		20	704	40

101	Ground Sample AFPC IX.2.A	
Lab	%	H_2O
25	1.86	-20.800
52	0.94	-6.080
266	0.80	-3.840
13	0.70	-2.160
21	0.69	-2.000
21	0.65	-1.440
13	0.64	-1.280
Std Dev	0.62	-1.000
6	0.61	-0.800
55	0.61	-0.800
24	0.60	-0.640
49	0.60	-0.640
35	0.59	-0.480
15	0.57	-0.160
10	0.57	-0.160
9	0.56	0.000
9	0.56	0.000
Median	0.56	0.000
75	0.55	0.160
10	0.54	0.320
61	0.54	0.320
75	0.54	0.320
24	0.54	0.400
52	0.53	0.480
15	0.53	0.560
6	0.50	0.960
Std Dev	0.50	1.000
26	0.49	1.120
241	0.39	2.672
61	0.39	2.800
77	0.37	3.040
35	0.22	5.440
77	0.17	6.240

102	Other (describe)	
Lab	%	H_2O
56	0.19	0.000
Median	0.19	0.000

201	Gravimetric AFPC IX.3.B	
Lab	%	P2O5
56	28.89	-3.706
Std Dev	28.77	-1.000
55	28.73	-0.057
Median	28.73	0.000
241	28.73	0.057
Std Dev	28.68	1.000
77	28.67	1.311

202	ICP-inducted coupled plasma AFPC IX.3.D	
Lab	%	P2O5
6	28.83	-1.164
Std Dev	28.81	-1.000
10	28.72	-0.388
Median	28.67	0.000
10	28.61	0.388
Std Dev	28.52	1.000
266	28.40	1.869

203	Photometric-AFPC IX.3.C	
Lab	%	P2O5
25	29.35	-2.030
35	29.10	-1.015
Std Dev	29.10	-1.000
49	29.09	-0.975
60	29.05	-0.812
26	29.01	-0.629
61	28.95	-0.406
35	28.92	-0.284
9	28.91	-0.244
61	28.86	-0.041
45	28.85	0.000
Median	28.85	0.000
45	28.72	0.528
92	28.70	0.609
78	28.69	0.670
9	28.68	0.711
92	28.62	0.934
Std Dev	28.60	1.000
78	28.60	1.035
6	28.58	1.096
52	28.35	2.030
52	28.00	3.452

204	Automated -AOAC 978.01-15th	
Lab	%	P2O5
15	29.56	-8.403
15	29.51	-7.949
Std Dev	28.75	-1.000
75	28.71	-0.636
24	28.68	-0.363
77	28.64	-0.045
75	28.64	0.000
Median	28.64	0.000
24	28.60	0.363
13	28.55	0.772
21	28.54	0.908
21	28.54	0.908
Std Dev	28.52	1.000
13	28.51	1.136

205	Other(describe)	
Lab	%	P2O5
19	29.01	-1.340
Std Dev	28.97	-1.000
Median	28.85	0.000
Std Dev	28.73	1.000
56	28.69	1.340

211	Gravimetric AFPC IX.3.B		
Lab	%	P2O5	dB
55	28.91		-1.403
Std Dev	28.89		-1.000
241	28.84		0.000
Median	28.84		0.000
Std Dev	28.79		1.000
77	28.78		1.277

212	ICP-inducted coupled plasma AFPC IX.3.D		
Lab	%	P2O5	dB
6	28.97		-1.233
Std Dev	28.95		-1.000
10	28.88		-0.419
Median	28.82		0.000
10	28.77		0.419
Std Dev	28.70		1.000
266	28.63		1.612

213	Photometric-AFPC IX.3.C		
Lab	%	P2O5	dB
25	29.91		-3.258
Std Dev	29.30		-1.000
35	29.27		-0.907
49	29.27		-0.881
26	29.15		-0.444
61	29.11		-0.293
9	29.07		-0.165
Median	29.03		0.000
35	28.98		0.165
61	28.97		0.211
9	28.84		0.712
Std Dev	28.76		1.000
6	28.76		1.013
52	28.62		1.519
52	28.15		3.263

214	Automated -AOAC 978.01-15th		
Lab	%	P2O5	dB
15	29.73		-10.896
15	29.67		-10.174
75	28.86		-1.056
Std Dev	28.86		-1.000
24	28.83		-0.698
75	28.79		-0.292
24	28.77		0.000
Median	28.77		0.000
13	28.73		0.382
21	28.73		0.405
21	28.72		0.520
13	28.71		0.658
77	28.69		0.893

215	Other(describe)		
Lab	%	P2O5	dB
56	28.74		0.000
Median	28.74		0.000

301	Atomic Absorption-AFPC IX.6.B	
Lab	%	Fe2O3
25	0.57	-1.563
Std Dev	0.55	-1.000
241	0.54	-0.447
Median	0.53	0.000
55	0.52	0.447

Std Dev	0.51	1.000
60	0.51	1.117

302	ICP-inducted coupled plasma-AFPC IX.6.C	
Lab	%	Fe2O3
35	0.63	-3.112
266	0.62	-2.766
78	0.60	-2.075
21	0.58	-1.210
78	0.58	-1.210
35	0.57	-1.037
Std Dev	0.57	-1.000
21	0.57	-0.865
6	0.56	-0.692
6	0.56	-0.692
75	0.56	-0.615
10	0.55	-0.346
10	0.55	-0.346
13	0.55	-0.346
13	0.55	-0.173
45	0.54	0.000
49	0.54	0.000
61	0.54	0.000
Median	0.54	0.000
9	0.54	0.173
75	0.53	0.256
9	0.53	0.346
45	0.53	0.346
61	0.53	0.519
15	0.52	0.692
15	0.52	0.865
Std Dev	0.51	1.000
92	0.50	1.383
24	0.49	1.729
92	0.49	1.729
24	0.48	2.075
52	0.44	3.458
52	0.42	4.150

303	Other(describe)	
Lab	%	Fe2O3
77	0.60	-0.423
77	0.60	-0.423
Median	0.59	0.000
56	0.59	0.423
Std Dev	0.57	1.000
19	0.55	2.398

401	Atomic Absorption-AFPC IX.6.B	
Lab	%	Al2O3
241	1.07	-1.340
Std Dev	0.98	-1.000
Median	0.73	0.000
Std Dev	0.48	1.000
55	0.39	1.340

402	ICP-inducted coupled plasma-AFPC IX.6.C	
Lab	%	Al2O3
78	1.73	-4.398
78	1.70	-4.251
266	1.68	-4.178
52	1.37	-2.668
52	1.30	-2.327
35	1.14	-1.547
35	1.09	-1.303
61	1.07	-1.182
Std Dev	1.03	-1.000
61	1.03	-0.987
21	0.92	-0.475
15	0.90	-0.353
15	0.89	-0.305
45	0.86	-0.183
9	0.85	-0.110
21	0.83	-0.012
Median	0.82	0.000
9	0.82	0.012
6	0.82	0.012
92	0.81	0.061
75	0.80	0.099
6	0.80	0.110
92	0.80	0.110
24	0.78	0.207
45	0.78	0.207
24	0.73	0.475
10	0.72	0.499
49	0.71	0.548
10	0.70	0.597
13	0.68	0.719
13	0.64	0.914
Std Dev	0.62	1.000
75	0.59	1.115

403	Other(describe)	
Lab	%	Al2O3
77	1.60	-0.701
77	1.59	-0.618
Median	1.52	0.000
56	1.44	0.618
19	1.40	0.948

501	Atomic Absorption-AFPC IX.8.A	
Lab	%	MgO
25	0.52	-3.127
35	0.48	-1.340
Std Dev	0.47	-1.000
35	0.45	0.000
241	0.45	0.000
Median	0.45	0.000
60	0.44	0.447
Std Dev	0.43	1.000
55	0.41	1.787

502	ICP-inducted coupled plasma-AFPC IX.8.B	
Lab	%	MgO
78	0.52	-2.948
61	0.49	-1.608
78	0.49	-1.608
266	0.48	-1.072
Std Dev	0.48	-1.000
15	0.48	-0.804
15	0.48	-0.804
21	0.47	-0.536
49	0.47	-0.536
6	0.46	0.000
6	0.46	0.000
9	0.46	0.000
9	0.46	0.000
10	0.46	0.000
10	0.46	0.000
21	0.46	0.000
Median	0.46	0.000
13	0.45	0.536
13	0.45	0.536
45	0.45	0.536
45	0.45	0.536
92	0.45	0.536
24	0.45	0.804
61	0.45	0.804
Std Dev	0.44	1.000
24	0.44	1.072
92	0.44	1.072
52	0.43	1.608
52	0.42	2.144
75	0.42	2.399
75	0.40	3.456

503	Other(describe)	
Lab	%	MgO
19	0.47	-2.233
Std Dev	0.46	-1.000
56	0.45	-0.447
Median	0.45	0.000
77	0.44	0.447
77	0.44	0.447

601	Insoluble-AFPC IX.4.A	
Lab	%	Al
15	14.66	-4.225
15	14.61	-4.115
61	14.56	-3.980
61	14.24	-3.211
9	13.46	-1.306
55	13.36	-1.062
Std Dev	13.33	-1.000
9	13.22	-0.720
52	13.20	-0.672
21	13.14	-0.525
21	13.01	-0.195
49	12.98	-0.134
6	12.97	-0.110
Median	12.93	0.000
13	12.88	0.110
26	12.87	0.134
45	12.80	0.305
10	12.76	0.403
13	12.75	0.440

24	12.75	0.440
24	12.59	0.818
Std Dev	12.52	1.000
6	12.45	1.160
10	12.44	1.184
45	12.33	1.453
35	11.89	2.527
35	11.80	2.747

602	Other(describe)	
Lab	%	AI
19	13.65	-1.340
Std Dev	13.63	-1.000
Median	13.58	0.000
Std Dev	13.52	1.000
266	13.50	1.340

651	Gasometric-AFPC IX.13.B	
Lab	%	CO2
61	4.66	-8.778
61	4.56	-7.224
49	4.16	-1.088
77	4.16	-1.088
Std Dev	4.15	-1.000
24	4.11	-0.233
6	4.09	0.000
9	4.09	0.000
9	4.09	0.000
15	4.09	0.000
21	4.09	0.000
Median	4.09	0.000
15	4.06	0.466
21	4.04	0.777
Std Dev	4.03	1.000
24	4.01	1.243
13	3.99	1.554
6	3.91	2.797
13	3.91	2.874

652	Other(describe)	
Lab	%	CO2
78	9.55	-0.441
78	9.39	-0.394
35	8.20	-0.057
35	8.00	0.000
Median	8.00	0.000
Std Dev	4.48	1.000
56	4.10	1.109
55	4.06	1.120
266	3.01	1.419

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

702	ICP-inducted coupled plasma-AFPC IX.12.D	
Lab	%	CaO
61	46.65	-4.957
78	45.94	-3.926
78	44.56	-1.938
45	44.17	-1.383
Std Dev	43.90	-1.000
45	43.88	-0.965
10	43.68	-0.677
10	43.47	-0.375
9	43.47	-0.367
6	43.27	-0.086
13	43.24	-0.043
9	43.21	0.000
Median	43.21	0.000
13	43.16	0.079
75	43.11	0.150
6	43.00	0.303
49	42.88	0.475
21	42.75	0.663
61	42.68	0.771
Std Dev	42.52	1.000
21	42.46	1.088
92	42.37	1.210
92	42.29	1.326
75	41.49	2.480

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

704	Permanganate	
Lab	%	CaO
60	44.35	-1.340
Std Dev	44.13	-1.000
Median	43.48	0.000
Std Dev	42.83	1.000
241	42.61	1.340

705	EDTA Volumetric-AFPC IX.12.C	
Lab	%	CaO
266	43.56	-2.010
Std Dev	43.53	-1.000
35	43.50	0.000
Median	43.50	0.000
35	43.48	0.670

706	Other(describe)	
Lab	%	CaO
77	44.20	-3.122
56	43.74	-1.540
55	43.70	-1.421
Std Dev	43.58	-1.000
52	43.32	-0.128
24	43.29	-0.009
Median	43.28	0.000
15	43.28	0.009
24	43.25	0.128
77	43.20	0.281
19	43.19	0.315
15	43.13	0.519

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

712	ICP-inducted coupled plasma-AFPC IX.12.D		
Lab	%	CaO	dB
61	46.90		-8.581
10	43.92		-1.197
Std Dev	43.84		-1.000
10	43.72		-0.708
9	43.71		-0.684
13	43.54		-0.271
6	43.49		-0.135
9	43.45		-0.050
13	43.43		0.000
Median	43.43		0.000
75	43.34		0.230
6	43.26		0.418
49	43.14		0.727
21	43.03		0.997
Std Dev	43.03		1.000
61	42.84		1.466
21	42.75		1.694
75	41.72		4.239

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

714	Permanganate		
Lab	%	CaO	dB
241	42.77		0.000
Median	42.77		0.000

715	EDTA Volumetric-AFPC IX.12.C		
Lab	%	CaO	dB
266	43.91		-1.223
Std Dev	43.88		-1.000
35	43.76		0.000
Median	43.76		0.000
Std Dev	43.63		1.000
35	43.58		1.457

716	Other(describe)		
Lab	%	CaO	dB
77	44.28		-3.207
55	43.97		-1.889
56	43.82		-1.245
Std Dev	43.76		-1.000
52	43.55		-0.097
15	43.53		0.000
Median	43.53		0.000
24	43.52		0.044
24	43.51		0.095
77	43.36		0.720
15	43.36		0.732

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
25	6.34	-32.639
52	3.10	-1.627
35	3.06	-1.244
13	3.06	-1.244
21	3.04	-1.005
Std Dev	3.03	-1.000
9	3.01	-0.766
35	2.99	-0.574
75	2.98	-0.431
13	2.96	-0.287
45	2.95	-0.191
45	2.95	-0.191
26	2.95	-0.144
9	2.93	0.000
Median	2.93	0.000
24	2.92	0.144
24	2.92	0.144
49	2.91	0.191
52	2.90	0.287
21	2.89	0.383
15	2.85	0.766
75	2.84	0.861
15	2.84	0.909
Std Dev	2.83	1.000
55	2.71	2.106
266	2.52	3.924
6	2.38	5.264
6	2.34	5.647

803	Oher(describe)	
Lab	%	Fluorine, F
77	2.97	-0.255
77	2.95	0.000
Median	2.95	0.000
Std Dev	2.87	1.000
19	2.76	2.425

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

912	ICP-inducted coupled plasma-AFPC IX.15.B	
Lab	ppm	Arsenic, As
35	15.0	-1.161
Std Dev	14.4	-1.000
61	14.1	-0.923
266	13.0	-0.618
61	12.8	-0.550
78	11.5	-0.197
24	10.9	-0.048
Median	10.7	0.000
24	10.6	0.048
52	8.2	0.675
52	8.2	0.694
Std Dev	7.0	1.000
35	7.0	1.011
78	7.0	1.011
77	1.7	2.451

913	Other(describe)	
Lab	ppm	Arsenic, As
13	9.9	-1.340
Std Dev	8.9	-1.000
Median	5.8	0.000
Std Dev	2.7	1.000
77	1.7	1.340

921	Atomic Absorption-AFPC IX.11.A	
Lab	ppm	Cadmium, Cd
Median	0	0.000

922	ICP-inducted coupled plasma-AFPC IX.11.B	
Lab	ppm	Cadmium, Cd
45	92	-1.907
45	91	-1.771
78	86	-1.123
Std Dev	85	-1.000
61	83	-0.729
78	83	-0.713
61	81	-0.341
75	80	-0.272
77	79	-0.136
77	78	0.000
Median	78	0.000
35	76	0.272
75	74	0.545
52	74	0.559
52	73	0.627
24	72	0.824
24	72	0.872
Std Dev	71	1.000
266	70	1.144
35	68	1.362

923	Other(describe)	
Lab	ppm	Cadmium, Cd
13	78	0.000
Median	78	0.000

931	Atomic Absorption-AFPC IX.16.B	
Lab	ppm	Cobalt, Co
55	3	0.000
Median	3	0.000

932	ICP-inducted coupled plasma-AFPC IX.16.A	
Lab	ppm	Cobalt, Co
78	4	-2.230
78	3	-1.694
Std Dev	2	-1.000
35	2	-0.622
35	2	-0.622
45	2	-0.622
77	2	-0.300
77	2	-0.193
61	1	0.000
Median	1	0.000
266	1	0.236
61	1	0.289
45	1	0.450
75	1	0.986
Std Dev	0	1.000
24	0	1.522
24	0	1.522
75	0	1.522

933	Other(describe)	
Lab	ppm	Cobalt, Co
13	2	0.000

Median	2	0.000

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

942	ICP-inducted coupled plasma-AFPC IX.16.A	
Lab	ppm	Mercury, Hg
35	1.6	-1.223
Std Dev	1.5	-1.000
35	1.0	0.000
Median	1.0	0.000
Std Dev	0.5	1.000
266	0.3	1.457

943	Other(describe)	
Lab	ppm	Mercury, Hg
13	0.9	-1.340
Std Dev	0.8	-1.000
Median	0.4	0.000
Std Dev	0.1	1.000
52	0.0	1.340

951	Atomic Absorption-AFPC IX.16.B	
Lab	ppm	Iolybdenum, Mo
55	9	0.000
Median	9	0.000

952	ICP-inducted coupled plasma-AFPC IX.16.A	
Lab	ppm	Iolybdenum, Mo
45	11	-2.882
45	11	-2.882
Std Dev	9	-1.000
61	9	-0.979
78	8	-0.668
77	7	-0.085
266	7	0.000
Median	7	0.000
78	7	0.109
61	7	0.186
77	6	0.847
Std Dev	6	1.000
24	6	1.119
24	6	1.119

953	Other(describe)	
Lab	ppm	Molybdenum, Mo
13	9	0.000
Median	9	0.000

961	Atomic Absorption-AFPC IX.16.B	
Lab	ppm	Nickel, Ni
55	51	0.000
Median	51	0.000

962	ICP-inducted coupled plasma-AFPC IX.16.A	
Lab	ppm	Nickel, Ni
52	111	-3.994
52	110	-3.865
61	93	-1.617
78	92	-1.482
Std Dev	88	-1.000
61	87	-0.838
78	87	-0.838
75	85	-0.580
75	80	0.000
77	80	0.000
Median	80	0.000
24	80	0.019
24	78	0.258
77	78	0.258
266	76	0.503
Std Dev	72	1.000
45	49	3.994
45	48	4.123
35	41	5.025
35	22	7.473

963	Other(describe)	
Lab	ppm	Nickel, Ni
19	111	-1.317
Std Dev	106	-1.000
13	88	0.000
Median	88	0.000
Std Dev	71	1.000
19	65	1.363

971	Atomic Absorption-AFPC IX.16.B	
Lab	ppm	Lead, Pb
55	3	0.000
Median	3	0.000

972	ICP-inducted coupled plasma-AFPC IX.16.A	
Lab	ppm	Lead, Pb
35	18	-1.951
61	17	-1.752
35	15	-1.475
Std Dev	12	-1.000
61	11	-0.840
266	8	-0.316
77	6	0.000
Median	6	0.000
24	5	0.048
77	5	0.111
24	4	0.254
78	1	0.745
78	1	0.745

973	Other(describe)	
Lab	ppm	Lead, Pb
13	5	0.000
Median	5	0.000

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

982	ICP-inducted coupled plasma-AFPC IX.16.A	
Lab	ppm	Selenium, Se
266	12	-2.680
Std Dev	6	-1.000
77	2	0.000
77	2	0.000
Median	2	0.000

983	Other(describe)	
Lab	ppm	Selenium, Se
13	11	0.000
Median	11	0.000

991	Atomic Absorption-AFPC IX.16.B	
Lab	ppm	Zinc, Zn
60	687	-1.340
Std Dev	666	-1.000
Median	605	0.000
Std Dev	545	1.000
55	524	1.340

992	ICP-inducted coupled plasma-AFPC IX.16.A	
Lab	ppm	Zinc, Zn
61	999	-6.047
45	778	-1.462
45	775	-1.400
Std Dev	756	-1.000
24	752	-0.925
24	724	-0.333
78	716	-0.176
52	712	-0.093
75	708	0.000
Median	708	0.000
52	705	0.052
78	702	0.114
61	681	0.540
75	665	0.882
77	663	0.923
Std Dev	659	1.000
77	657	1.048
266	577	2.707

993	Other(describe)	
Lab	ppm	Zinc, Zn
19	705	-1.035
Std Dev	704	-1.000
13	680	0.000
Median	680	0.000
Std Dev	655	1.000
19	639	1.645