

AFPC Rock Check Program

Sample No. 2010-12

	Method #	# of Anal.	Grand Median	Std Dev
Moisture				
Ground Sample AFPC IX.2.A	101	23	0.55	0.086
Other (describe)	102			
Method Group 100		23	0.55	0.09
P₂O₅				
Gravimetric AFPC IX.3.B	201	1	27.08	0.000
ICP-induced coupled plasma AFPC IX.3.D	202	2	26.72	0.067
Photometric-AFPC IX.3.C	203	16	26.71	0.130
Automated -AOAC 978.01-15th	204	9	26.62	0.175
Other(describe)	205			
Method Group 200		28	26.70	0.15
P₂O₅ (on Dry Basis)				
Gravimetric AFPC IX.3.B	211	1	27.12	0.000
ICP-induced coupled plasma AFPC IX.3.D	212	2	26.85	0.044
Photometric-AFPC IX.3.C	213	11	26.91	0.111
Automated -AOAC 978.01-15th	214	9	26.78	0.124
Other(describe)	215			
Method Group 210		22	26.81	0.15
Fe₂O₃				
Atomic Absorption-AFPC IX.6.B	301	3	1.47	0.530
ICP-induced coupled plasma-AFPC IX.6.C	302	24	1.55	0.101
Other(describe)	303			
Method Group 300		27	1.55	0.11
Al₂O₃				
Atomic Absorption-AFPC IX.7.B	401	1	1.54	0.000
ICP-induced coupled plasma-AFPC IX.7.C	402	23	0.91	0.110
Other(describe)	403	1	0.83	0.000
Method Group 400		25	0.91	0.15
MgO				
Atomic Absorption-AFPC IX.8.A	501	4	1.30	0.011
ICP-induced coupled plasma-AFPC IX.8.B	502	23	1.35	0.056
Other(describe)	503			
Method Group 500		27	1.35	0.05
Acid Insoluble				
Insoluble-AFPC IX.4.A	601	13	13.72	0.194
Other(describe)	602	1	14.40	0.000
Method Group 600		14	13.72	0.19
Carbon Dioxide				
Gasometric-AFPC IX.13.B	651	9	5.40	0.242
Other(describe)	652	4	5.92	0.959
Method Group 650		13	5.40	0.38
CaO				
Gravimetric sulfate-AFPC IX.12.A	701			
ICP-induced coupled plasma-AFPC IX.12.D	702	18	41.59	1.760
Ceric Sulfate volumetric-AFPC IX.12.B	703			
Permanganate	704	2	40.20	0.414
EDTA Volumetric-AFPC IX.12.C	705	2	41.89	0.157
Other(describe)	706	5	41.40	0.280
Method Group 700		27	41.59	0.68
CaO (on Dry Basis)				
Gravimetric sulfate-AFPC IX.12.A	711			
ICP-induced coupled plasma-AFPC IX.12.D	712	14	41.74	1.704
Ceric Sulfate volumetric-AFPC IX.12.B	713			
Permanganate	714	1	39.67	0.000
EDTA Volumetric-AFPC IX.12.C	715	2	42.12	0.142
Other(describe)	716	5	41.62	0.280
Method Group 710		16	41.57	2.82

	Method #	# of Anal.	Grand Median	Std Dev
Fluorine, F				
Volumetric-AFPC IX.14.A	801	1	3.16	0.000
Specific Ion Electrode-AFPC IX.14.B	802	12	3.16	0.165
Other(describe)	803	2	3.09	0.015
Method Group 800		15	3.12	0.13
Arsenic, As				
Atomic Absorption	911			
ICP-induced coupled plasma-AFPC IX.15.B	912	8	17.1	5.64
Other(describe)	913	2	11.4	5.11
Method Group 900		10	17.1	4.91
Cadmium, Cd				
Atomic Absorption-AFPC IX.11.A	921			
ICP-induced coupled plasma-AFPC IX.11.B	922	10	2	0.5
Other(describe)	923	2	10	6.0
Method Group 910		12	2	0.6
Cobalt, Co				
Atomic Absorption-AFPC IX.16.B	931			
ICP-induced coupled plasma-AFPC IX.16.A	932	8	5	1.3
Other(describe)	933	2	5	0.1
Method Group 920		10	5	1.1
Mercury, Hg				
Atomic Absorption-AFPC IX.16.B	941			
ICP-induced coupled plasma-AFPC IX.16.A	942	1	0.1	0.00
Other(describe)	943			
Method Group 930		1	0.1	0.00
Molybdenum, Mo				
Atomic Absorption-AFPC IX.16.B	951			
ICP-induced coupled plasma-AFPC IX.16.A	952	8	10	2.4
Other(describe)	953	2	6	4.1
Method Group 940		10	10	2.3
Nickel, Ni				
Atomic Absorption-AFPC IX.16.B	961			
ICP-induced coupled plasma-AFPC IX.16.A	962	10	15	1.4
Other(describe)	963	2	18	2.1
Method Group 950		12	15	1.3
Lead, Pb				
Atomic Absorption-AFPC IX.16.B	971			
ICP-induced coupled plasma-AFPC IX.16.A	972	8	11	2.6
Other(describe)	973	1	10	0.0
Method Group 960		9	10	1.9
Selenium, Se				
Atomic Absorption-AFPC IX.16.B	981			
ICP-induced coupled plasma-AFPC IX.16.A	982	3		1.7
Other(describe)	983	2	20	12.9
Method Group 970		5	3	3.4
Zinc, Zn				
Atomic Absorption-AFPC IX.16.B	991	1	110	0
ICP-induced coupled plasma-AFPC IX.16.A	992	10	29	4
Other(describe)	993	1	15	0
Method Group 980		12	29	7

101 Ground Sample AFPC IX.2.A			
Lab	%	H ₂ O	
9	0.63	-0.874	
9	0.61	-0.699	
61	0.61	-0.641	
10	0.60	-0.583	
10	0.60	-0.583	
266	0.60	-0.583	
13	0.59	-0.466	
10	0.59	-0.408	
10	0.59	-0.408	
13	0.56	-0.117	
24	0.56	-0.117	
49	0.55	0.000	
Median	0.55	0.000	
24	0.53	0.233	
33	0.53	0.233	
61	0.53	0.291	
35	0.50	0.583	
75	0.49	0.699	
75	0.47	0.932	
Std Dev	0.46	1.000	
6	0.37	2.097	
6	0.37	2.097	
77	0.17	4.428	
77	0.15	4.661	
27	0.07	5.593	

102 Other (describe)			
Lab	%	H ₂ O	
Median	0.00	0.000	

201 Gravimetric AFPC IX.3.B			
Lab	%	P2O5	
77	27.08	0.000	
Median	27.08	0.000	

202 ICP-induced coupled plasma AFPC IX.3.D			
Lab	%	P2O5	
6	26.81	-1.340	
Std Dev	26.79	-1.000	
Median	26.72	0.000	
Std Dev	26.65	1.000	
266	26.63	1.340	

203 Photometric-AFPC IX.3.C			
Lab	%	P2O5	
35	27.30	-4.550	
60	27.00	-2.237	
49	26.84	-1.003	
Std Dev	26.84	-1.000	
9	26.81	-0.771	
9	26.76	-0.347	
10	26.75	-0.308	
10	26.75	-0.308	
6	26.72	-0.077	
Median	26.71	0.000	
92	26.70	0.077	
10	26.64	0.540	
10	26.64	0.540	
92	26.60	0.848	
Std Dev	26.58	1.000	
78	26.58	1.003	
33	26.57	1.080	
78	26.41	2.314	
27	26.27	3.393	

204 Automated -AOAC 978.01-15th			
Lab	%	P2O5	
24	26.95	-1.853	
Std Dev	26.80	-1.000	
24	26.79	-0.941	
77	26.76	-0.798	
75	26.71	-0.485	
13	26.62	0.000	
Median	26.62	0.000	
75	26.60	0.114	
61	26.53	0.542	
Std Dev	26.44	1.000	
13	26.44	1.026	
61	25.44	6.757	

205 Other(describe)			
Lab	%	P2O5	
Median	0.00	0.000	

211 Gravimetric AFPC IX.3.B			
Lab	%	P2O5	dB

77	27.12	0.000	
Median	27.12	0.000	

212 ICP-induced coupled plasma AFPC IX.3.D			
Lab	%	P2O5	dB
6	26.91	-1.340	
Std Dev	26.89	-1.000	
Median	26.85	0.000	
Std Dev	26.81	1.000	
266	26.79	1.340	

213 Photometric-AFPC IX.3.C			
Lab	%	P2O5	dB
35	27.44	-4.793	
Std Dev	27.02	-1.000	
49	26.99	-0.733	
9	26.98	-0.644	
9	26.92	-0.107	
10	26.91	0.000	
10	26.91	0.000	
Median	26.91	0.000	
6	26.82	0.798	
10	26.80	0.964	
10	26.80	0.964	
Std Dev	26.80	1.000	
33	26.71	1.772	
27	26.29	5.600	

214 Automated -AOAC 978.01-15th			
Lab	%	P2O5	dB
24	27.09	-2.505	
24	26.94	-1.273	
Std Dev	26.90	-1.000	
75	26.83	-0.428	
77	26.81	-0.222	
13	26.78	0.000	
Median	26.78	0.000	
75	26.73	0.379	
61	26.66	0.912	
Std Dev	26.65	1.000	
13	26.59	1.525	
61	25.59	9.585	

215 Other(describe)			
Lab	%	P2O5	dB
Median	0.00	0.000	

301 Atomic Absorption-AFPC IX.6.B			
Lab	%	Fe2O3	
33	1.66	-0.368	
60	1.47	0.000	
Median	1.47	0.000	
Std Dev	0.93	1.000	
27	0.24	2.312	

302 ICP-induced coupled plasma-AFPC IX.6.C			
Lab	%	Fe2O3	
77	1.76	-2.043	
77	1.72	-1.646	
266	1.69	-1.348	
61	1.68	-1.199	
78	1.67	-1.150	
Std Dev	1.65	-1.000	
61	1.65	-0.951	
92	1.65	-0.951	
6	1.63	-0.753	
92	1.62	-0.653	
75	1.60	-0.432	
9	1.57	-0.107	
75	1.56	-0.041	
Median	1.55	0.000	
13	1.55	0.041	
9	1.55	0.091	
78	1.54	0.190	
10	1.53	0.290	
10	1.53	0.290	
49	1.52	0.339	
10	1.50	0.538	
10	1.50	0.538	
24	1.49	0.637	
24	1.49	0.687	
13	1.48	0.736	
Std Dev	1.45	1.000	
35	1.28	2.721	

303 Other(describe)			
Lab	%	Fe2O3	

Median	0.00	0.000
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401	Atomic Absorption-AFPC IX.6.B	
Lab	%	Al2O3

27	1.54	0.000
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Median	1.54	0.000
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402	ICP-induced coupled plasma-AFPC IX.6.C	
Lab	%	Al2O3

266	1.19	-2.589
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78	1.15	-2.180
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77	1.13	-2.044
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77	1.12	-1.953
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61	1.07	-1.499
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61	1.07	-1.454
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Std Dev	1.02	-1.000
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92	0.97	-0.591
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92	0.96	-0.500
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9	0.92	-0.136
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9	0.92	-0.091
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24	0.92	-0.091
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78	0.91	0.000
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Median	0.91	0.000
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24	0.90	0.045
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6	0.89	0.136
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49	0.89	0.136
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75	0.87	0.309
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10	0.87	0.318
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10	0.87	0.318
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13	0.87	0.318
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10	0.86	0.409
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10	0.86	0.409
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13	0.86	0.409
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75	0.84	0.571
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403	Other(describe)	
Lab	%	Al2O3

35	0.83	0.000
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Median	0.83	0.000
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501	Atomic Absorption-AFPC IX.8.A	
Lab	%	MgO

33	1.31	-1.340
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Std Dev	1.31	-1.000
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27	1.30	-0.447
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Median	1.30	0.000
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60	1.29	0.447
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Std Dev	1.28	1.000
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35	1.28	1.340
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502	ICP-induced coupled plasma-AFPC IX.8.B	
Lab	%	MgO

92	1.53	-3.216
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92	1.50	-2.680
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13	1.41	-1.072
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Std Dev	1.41	-1.000
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13	1.40	-0.893
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24	1.38	-0.536
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24	1.37	-0.357
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6	1.36	-0.179
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10	1.35	0.000
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10	1.35	0.000
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10	1.35	0.000
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10	1.35	0.000
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49	1.35	0.000
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61	1.35	0.000
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Median	1.35	0.000
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61	1.35	0.089
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78	1.35	0.089
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9	1.31	0.804
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9	1.30	0.893
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Std Dev	1.29	1.000
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77	1.28	1.251
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266	1.28	1.251
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77	1.26	1.608
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78	1.22	2.323
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75	1.04	5.459
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75	0.96	7.044
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503	Other(describe)	
Lab	%	MgO

Median	0.00	0.000
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601	Insoluble-AFPC IX.4.A	
Lab	%	Al

27	14.40	-3.530
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Std Dev	13.91	-1.000
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9	13.80	-0.412
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10	13.76	-0.232
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10	13.76	-0.232
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9	13.73	-0.077
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10	13.72	0.000
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10	13.72	0.000
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Median	13.72	0.000
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24	13.58	0.696
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Std Dev	13.52	1.000
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13	13.50	1.108
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35	13.50	1.108
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24	13.46	1.340
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13	13.22	2.551
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6	13.10	3.170
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602	Other(describe)	
Lab	%	Al

266	14.40	0.000
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Median	14.40	0.000
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651	Gasometric-AFPC IX.13.B	
Lab	%	CO2

6	5.61	-0.869
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13	5.57	-0.703
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13	5.43	-0.124
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9	5.40	0.000
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9	5.40	0.000
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Median	5.40	0.000
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77	5.21	0.786
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Std Dev	5.16	1.000
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61	5.11	1.216
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77	5.07	1.365
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49	4.92	1.985
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652	Other(describe)	
Lab	%	CO2

35	8.76	-2.967
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Std Dev	6.87	-1.000
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78	6.08	-0.172
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Median	5.92	0.000
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78	5.75	0.172
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Std Dev	4.96	1.000
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266	4.61	1.361
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701	Gravimetric sulfate-AFPC IX.12.A	
Lab	%	CaO

Median	0.00	0.000
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702	ICP-induced coupled plasma-AFPC IX.12.	
Lab	%	CaO

92	42.92	-0.754
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77	42.83	-0.703
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78	42.36	-0.433
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77	42.16	-0.322
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9	41.94	-0.195
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9	41.88	-0.163
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92	41.86	-0.152
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10	41.60	-0.001
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10	41.60	-0.001
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Median	41.59	0.000
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49	41.59	0.001
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10	41.41	0.107
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10	41.41	0.107
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6	41.25	0.195
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Std Dev	39.83	1.000
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61	39.00	1.473
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75	38.76	1.610
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75	38.18	1.940
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61	37.10	2.552
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78	36.05	3.152
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703	Ceric Sulfate volumetric-AFPC IX.12.B	
Lab	%	CaO

Median	0.00	0.000
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704	Permanganate	
Lab	%	CaO

60	40.75	-1.340
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Std Dev	40.61	-1.000
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Median	40.20	0.000
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Std Dev	39.78	1.000
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27	39.64	1.340
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705	EDTA Volumetric-AFPC IX.12.C	
Lab	%	CaO

35	42.10	-1.340
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Std Dev	42.05	-1.000
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Median	41.89	0.000
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Std Dev	41.73	1.000
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266	41.68	1.340
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706 Other(describe)			
Lab	%	CaO	
24	41.93		-1.894
24	41.72		-1.126
Std Dev	41.68		-1.000
33	41.40		0.000
Median	41.40		0.000
13	41.34		0.214
13	41.33		0.250

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
77	42.89		-0.679
77	42.23		-0.290
9	42.20		-0.271
9	42.14		-0.234
10	41.84		-0.060
10	41.84		-0.060
49	41.82		-0.048
Median	41.74		0.000
10	41.65		0.048
10	41.65		0.048
6	41.40		0.196
Std Dev	40.03		1.000
61	39.24		1.467
75	38.95		1.636
75	38.36		1.983
61	37.30		2.606

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

714 Permanganate			
Lab	%	CaO	dB
27	39.67		0.000
Median	39.67		0.000

715 EDTA Volumetric-AFPC IX.12.C			
Lab	%	CaO	dB
35	42.31		-1.340
Std Dev	42.26		-1.000
Median	42.12		0.000
Std Dev	41.98		1.000
266	41.93		1.340

716 Other(describe)			
Lab	%	CaO	dB
24	42.15		-1.906
24	41.95		-1.178
Std Dev	41.90		-1.000
33	41.62		0.000
Median	41.62		0.000
13	41.58		0.162
13	41.57		0.171

801 Volumetric-AFPC IX.14.A			
Lab	%	Fluorine, F	
33	3.16		0.000
Median	3.16		0.000

802 Specific Ion Electrode-AFPC IX.14.B			
Lab	%	Fluorine, F	
266	3.66		-3.059
35	3.43		-1.666
Std Dev	3.32		-1.000
9	3.25		-0.575
27	3.25		-0.545
49	3.20		-0.273
9	3.20		-0.242
Median	3.16		0.000
75	3.12		0.242
75	3.10		0.363
24	3.03		0.757
13	3.01		0.878
Std Dev	2.99		1.000
13	2.97		1.120
24	2.96		1.181

803 Other(describe)			
Lab	%	Fluorine, F	
77	3.11		-1.340

Std Dev	3.10		-1.000
Median	3.09		0.000
Std Dev	3.08		1.000
77	3.07		1.340

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
61	25.5	-1.488
61	24.0	-1.214
6	23.0	-1.045
Std Dev	22.7	-1.000
266	18.2	-0.195
Median	17.1	0.000
77	16.0	0.195
78	15.9	0.213
77	15.0	0.372
78	13.0	0.726

913 Other(describe)		
Lab	ppm	Arsenic, As
13	18.2	-1.340
Std Dev	16.5	-1.000
Median	11.4	0.000
Std Dev	6.2	1.000
27	4.5	1.340

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

922 ICP-induced coupled plasma-AFPC IX.11.B		
Lab	ppm	Cadmium, Cd
61	3	-2.385
78	3	-2.056
78	3	-1.619
Std Dev	2	-1.000
6	2	-0.416
266	2	-0.022
Median	2	0.000
61	2	0.022

75	2	0.022
75	2	0.022
Std Dev	2	1.000
77	0	4.397
77	0	4.397

923 Other(describe)		
Lab	ppm	Cadmium, Cd
27	18	-1.340
Std Dev	16	-1.000
Median	10	0.000
Std Dev	4	1.000
13	2	1.340

931 Atomic Absorption-AFPC IX.16.B		
Lab	ppm	Cobalt, Co
Median	0	0.000

932 ICP-induced coupled plasma-AFPC IX.16.		
Lab	ppm	Cobalt, Co
78	6	-1.200
266	6	-1.040
Std Dev	6	-1.000
6	5	-0.640
78	5	-0.400
Median	5	0.000
77	4	0.400
77	4	0.400
Std Dev	3	1.000
75	3	1.200
75	3	1.200

933 Other(describe)		
Lab	ppm	Cobalt, Co
61	6	-1.340
Std Dev	5	-1.000
Median	5	0.000
Std Dev	5	1.000
13	5	1.340

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	0.1	0.000
Median	0.1	0.000

943 Other(describe)		
Lab	ppm	Mercury, Hg
13	<0.07	0.000
Median	0.0	0.000

951 Atomic Absorption-AFPC IX.16.B		
Lab	ppm	Iolybdenum, Mo
Median	0	0.000

952 ICP-induced coupled plasma-AFPC IX.16.A		
Lab	ppm	Iolybdenum, Mo
61	135	-51.988
Std Dev	13	-1.000
6	12	-0.482
78	11	-0.314
266	11	-0.188
Median	10	0.000
78	10	0.188
77	8	0.984
77	8	0.984
Std Dev	8	1.000
61	2	3.513

953 Other(describe)		
Lab	ppm	Iolybdenum, Mo
13	11	-1.340
Std Dev	10	-1.000
Median	6	0.000
Std Dev	2	1.000
27	0	1.340

961 Atomic Absorption-AFPC IX.16.B		
Lab	ppm	Nickel, Ni
Median	0	0.000

962 ICP-induced coupled plasma-AFPC IX.16.A		
Lab	ppm	Nickel, Ni
266	20	-3.502
61	17	-1.072

Std Dev	16	-1.000
61	16	-0.715
78	16	-0.715
6	16	-0.357
Median	15	0.000
75	15	0.357
78	15	0.357
77	14	0.715
Std Dev	14	1.000
75	14	1.072
77	12	2.144

963 Other(describe)		
Lab	ppm	Nickel, Ni
27	21	-1.340
Std Dev	20	-1.000
Median	18	0.000
Std Dev	16	1.000
13	15	1.340

971 Atomic Absorption-AFPC IX.16.B		
Lab	ppm	Lead, Pb
Median	0	0.000

972 ICP-induced coupled plasma-AFPC IX.16.A		
Lab	ppm	Lead, Pb
6	13	-1.045
Std Dev	13	-1.000
61	12	-0.639
61	12	-0.503
266	11	-0.271
Median	11	0.000
78	10	0.271
78	10	0.464
Std Dev	8	1.000
77	6	1.819
77	5	2.206

973 Other(describe)		
Lab	ppm	Lead, Pb
13	10	0.000
Median	10	0.000

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

982 ICP-induced ed coupled plasma-AFPC IX.16.A		
Lab	ppm	Selenium, Se
266	5	-2.680
Std Dev	2	-1.000
77	0	0.000
77	0	0.000
Median	0	0.000

983 Other(describe)		
Lab	ppm	Selenium, Se
27	37	-1.340
Std Dev	33	-1.000
Median	20	0.000
Std Dev	7	1.000
13	3	1.340

991 Atomic Absorption-AFPC IX.16.B		
Lab	ppm	Zinc, Zn
60	110	0.000
Median	110	0.000

992 ICP-induced coupled plasma-AFPC IX.16.A		
Lab	ppm	Zinc, Zn
61	34	-1.286
61	34	-1.167
78	33	-1.048
Std Dev	33	-1.000
78	32	-0.691
266	29	-0.143
Median	29	0.000
75	28	0.143
6	27	0.381
75	27	0.381
Std Dev	24	1.000
77	2	6.337
77	1	6.575

993 Other(describe)		
Lab	ppm	Zinc, Zn
13	15	0.000

Median	15	0.000
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