

# AFPC Rock Check Program

Sample No. 2023-09

	Method #	# of Anal.	Grand Median	Std Dev
<b>Moisture</b>				
Ground Sample AFPC IX.2.A	101	25	1.56	0.756
Other (describe)	102	8	1.47	0.134
<b>Method Group 100</b>		<b>33</b>	<b>1.51</b>	<b>0.47</b>
<b>P<sub>2</sub>O<sub>5</sub></b>				
Gravimetric AFPC IX.3.B	201	11	29.50	0.198
ICP-induced coupled plasma AFPC IX.3.D	202	6	29.58	0.158
AOAC 962.02-15th	203	2	29.42	0.002
Photometric-AFPC IX.3.C	204	23	29.54	0.259
Automated -AOAC 978.01-15th	205	9	29.54	0.146
<b>Method Group 200</b>		<b>51</b>	<b>29.54</b>	<b>0.20</b>
<b>P<sub>2</sub>O<sub>5</sub> (on Dry Basis)</b>				
Gravimetric AFPC IX.3.B	211	6	29.92	0.178
ICP-induced coupled plasma AFPC IX.3.D	212	5	30.02	0.200
AOAC 962.02-15th	213	2	29.86	0.012
Photometric-AFPC IX.3.C	214	15	29.94	0.177
Automated -AOAC 978.01-15th	215	5	29.85	0.134
<b>Method Group 210</b>		<b>33</b>	<b>29.92</b>	<b>0.18</b>
<b>Fe<sub>2</sub>O<sub>3</sub></b>				
Atomic Absorption-AFPC IX.6.B	301	2	0.63	0.011
ICP-induced coupled plasma-AFPC IX.6.C	302	34	0.62	0.047
Other(describe)	303	4	0.66	0.063
<b>Method Group 300</b>		<b>40</b>	<b>0.62</b>	<b>0.05</b>
<b>Al<sub>2</sub>O<sub>3</sub></b>				
Atomic Absorption-AFPC IX.7.B	401	2	0.60	0.026
ICP-induced coupled plasma-AFPC IX.7.C	402	34	0.57	0.089
Other(describe)	403	4	0.90	0.026
<b>Method Group 400</b>		<b>40</b>	<b>0.59</b>	<b>0.09</b>
<b>MgO</b>				
Atomic Absorption-AFPC IX.8.A	501	5	0.67	0.179
ICP-induced coupled plasma-AFPC IX.8.B	502	33	0.70	0.026
Other(describe)	503	5	0.72	0.071
<b>Method Group 500</b>		<b>43</b>	<b>0.70</b>	<b>0.04</b>
<b>Acid Insoluble</b>				
Insoluble-AFPC IX.4.A	601	21	3.93	0.244
Other(describe)	602	4	3.49	0.464
<b>Method Group 600</b>		<b>25</b>	<b>3.90</b>	<b>0.26</b>
<b>Carbon Dioxide</b>				
Gasometric-AFPC IX.13.B	651	17	4.63	0.164
Other(describe)	652	16	5.04	0.342
<b>Method Group 650</b>		<b>33</b>	<b>4.80</b>	<b>0.33</b>
<b>CaO</b>				
Gravimetric sulfate-AFPC IX.12.A	701	4	45.47	0.457
ICP-induced coupled plasma-AFPC IX.12.D	702	21	45.52	0.321
Ceric Sulfate volumetric-AFPC IX.12.B	703			
Permanganate	704	2	45.31	0.387
EDTA Volumetric-AFPC IX.12.C	705			
Other(describe)	706	14	45.88	0.885
<b>Method Group 700</b>		<b>41</b>	<b>45.74</b>	<b>0.37</b>
<b>CaO (on Dry Basis)</b>				
Gravimetric sulfate-AFPC IX.12.A	711	3	45.92	0.044
ICP-induced coupled plasma-AFPC IX.12.D	712	12	46.30	0.136
Ceric Sulfate volumetric-AFPC IX.12.B	713			
Permanganate	714	2	45.97	0.321
EDTA Volumetric-AFPC IX.12.C	715			
Other(describe)	716	12	46.55	0.809
<b>Method Group 710</b>		<b>29</b>	<b>46.33</b>	<b>0.23</b>

	Method #	# of Anal.	Grand Median	Std Dev
<b>Fluorine, F</b>				
Volumetric-AFPC IX.14.A	801			
Specific Ion Electrode-AFPC IX.14.B	802	32	2.83	0.101
Other (describe)	803	3	2.75	0.013
<b>Method Group 800</b>		<b>35</b>	<b>2.82</b>	<b>0.11</b>
<b>Arsenic, As</b>				
Atomic Absorption	911	1	3.4	0.00
ICP-induced coupled plasma-AFPC IX.15.B	912	17	6.1	3.54
Other(describe)	913	5	6.0	0.59
<b>Method Group 900</b>		<b>23</b>	<b>6.0</b>	<b>2.93</b>
<b>Cadmium, Cd</b>				
Atomic Absorption-AFPC IX.11.A	921	1	36	0.0
ICP-induced coupled plasma-AFPC IX.11.B	922	22	44	4.4
Other(describe)	923	3	39	7.4
<b>Method Group 910</b>		<b>26</b>	<b>42</b>	<b>4.8</b>
<b>Cobalt, Co</b>				
Atomic Absorption-AFPC IX.16.B	931	1	1	0.0
ICP-induced coupled plasma-AFPC IX.16.A	932	9	1	0.3
Other(describe)	933	3	1	1.2
<b>Method Group 920</b>		<b>13</b>	<b>1</b>	<b>0.2</b>
<b>Mercury, Hg</b>				
Atomic Absorption-AFPC IX.16.B	941			
ICP-induced coupled plasma-AFPC IX.16.A	942	2	15.0	11.19
Other(describe)	943	4	19.6	29.04
<b>Method Group 930</b>		<b>6</b>	<b>15.1</b>	<b>27.38</b>
<b>Molybdenum, Mo</b>				
Atomic Absorption-AFPC IX.16.B	951	1	8	0.0
ICP-induced coupled plasma-AFPC IX.16.A	952	11	8	0.7
Other(describe)	953	3	9	2.8
<b>Method Group 940</b>		<b>15</b>	<b>9</b>	<b>1.0</b>
<b>Nickel, Ni</b>				
Atomic Absorption-AFPC IX.16.B	961	1	12	0.0
ICP-induced coupled plasma-AFPC IX.16.A	962	21	12	1.8
Other(describe)	963	1	13	0.0
<b>Method Group 950</b>		<b>23</b>	<b>12</b>	<b>1.7</b>
<b>Lead, Pb</b>				
Atomic Absorption-AFPC IX.16.B	971	1	5	0.0
ICP-induced coupled plasma-AFPC IX.16.A	972	19	5	1.1
Other(describe)	973	2	12	0.3
<b>Method Group 960</b>		<b>22</b>	<b>5</b>	<b>1.1</b>
<b>Selenium, Se</b>				
Atomic Absorption-AFPC IX.16.B	981			
ICP-induced coupled plasma-AFPC IX.16.A	982	4	2	0.7
Other(describe)	983	3	3	3.8
<b>Method Group 970</b>		<b>7</b>	<b>2</b>	<b>0.7</b>
<b>Zinc, Zn</b>				
Atomic Absorption-AFPC IX.16.B	991	1	66	0
ICP-induced coupled plasma-AFPC IX.16.A	992	19	75	4
Other(describe)	993	1	85	0
<b>Method Group 980</b>		<b>21</b>	<b>75</b>	<b>5</b>

101 Ground Sample AFPC IX.2.A			
Lab	%	H <sub>2</sub> O	
24	1.95		-0.509
55	1.92		-0.469
49	1.88		-0.423
13	1.88		-0.417
10	1.86		-0.397
24	1.86		-0.390
13	1.84		-0.364
21	1.78		-0.291
10	1.73		-0.225
266	1.70		-0.185
21	1.66		-0.132
27	1.64		-0.099
22	1.56		0.000
<b>Median</b>	<b>1.56</b>		<b>0.000</b>
9	1.54		0.026
9	1.46		0.139
30	1.23		0.443
15	1.11		0.602
15	1.11		0.602
16	0.82		0.976
<b>Std Dev</b>	<b>0.80</b>		<b>1.000</b>
26	0.74		1.084
26	0.74		1.084
16	0.71		1.129
113	0.56		1.322
77	0.43		1.501
77	0.42		1.514

102 Other (describe)			
Lab	%	H <sub>2</sub> O	
85	1.60		-1.005
<b>Std Dev</b>	<b>1.60</b>		<b>-1.000</b>
85	1.59		-0.931
86	1.51		-0.335
86	1.49		-0.186
<b>Median</b>	<b>1.47</b>		<b>0.000</b>
84	1.44		0.186
84	1.43		0.298
<b>Std Dev</b>	<b>1.33</b>		<b>1.000</b>
35	1.13		2.531
35	1.09		2.792

201 Gravimetric AFPC IX.3.B			
Lab	%	P2O5	
22	30.49		-5.003
28	29.83		-1.712
28	29.73		-1.164
77	29.72		-1.112
<b>Std Dev</b>	<b>29.69</b>		<b>-1.000</b>
55	29.58		-0.430
56	29.50		0.000
84	29.50		0.000
<b>Median</b>	<b>29.50</b>		<b>0.000</b>
84	29.49		0.025
82	29.42		0.379
113	29.42		0.379
113	29.39		0.531

202 ICP-induced coupled plasma AFPC IX.3.D			
Lab	%	P2O5	
82	29.97		-2.442
<b>Std Dev</b>	<b>29.74</b>		<b>-1.000</b>
35	29.72		-0.856
10	29.62		-0.254
<b>Median</b>	<b>29.58</b>		<b>0.000</b>
16	29.54		0.254
10	29.46		0.761
<b>Std Dev</b>	<b>29.42</b>		<b>1.000</b>
266	29.06		3.298

203 AOAC 962.02-15th			
Lab	%	P2O5	
9	29.42		-1.340
<b>Std Dev</b>	<b>29.42</b>		<b>-1.000</b>
<b>Median</b>	<b>29.42</b>		<b>0.000</b>
<b>Std Dev</b>	<b>29.42</b>		<b>1.000</b>
9	29.42		1.340

204 Photometric-AFPC IX.3.C			
Lab	%	P2O5	
21	29.86		-1.215
10	29.80		-1.003
<b>Std Dev</b>	<b>29.80</b>		<b>-1.000</b>
10	29.79		-0.964
21	29.75		-0.791
49	29.74		-0.771

35	29.72		-0.694
26	29.66		-0.463
16	29.66		-0.443
45	29.65		-0.424
30	29.63		-0.347
13	29.55		-0.019
26	29.54		0.000
<b>Median</b>	<b>29.54</b>		<b>0.000</b>
15	29.48		0.251
15	29.48		0.251
81	29.45		0.347
13	29.43		0.424
24	29.36		0.694
24	29.33		0.829
<b>Std Dev</b>	<b>29.28</b>		<b>1.000</b>
92	29.28		1.003
92	29.28		1.003
51	29.15		1.523
51	29.11		1.677
27	29.07		1.803

205 Automated -AOAC 978.01-15th			
Lab	%	P2O5	
87	30.15		-4.157
<b>Std Dev</b>	<b>29.69</b>		<b>-1.000</b>
22	29.62		-0.515
87	29.61		-0.447
86	29.55		-0.034
86	29.54		0.000
<b>Median</b>	<b>29.54</b>		<b>0.000</b>
56	29.52		0.137
77	29.41		0.893
<b>Std Dev</b>	<b>29.39</b>		<b>1.000</b>
85	29.38		1.099
85	29.33		1.443

211 Gravimetric AFPC IX.3.B			
Lab	%	P2O5	
22	30.97		-5.866
55	30.16		-1.324
<b>Std Dev</b>	<b>30.10</b>		<b>-1.000</b>
84	29.93		-0.027
<b>Median</b>	<b>29.92</b>		<b>0.000</b>
84	29.92		0.027

77	29.84		0.444
<b>Std Dev</b>	<b>29.74</b>		<b>1.000</b>
113	29.59		1.879

212 ICP-induced coupled plasma AFPC IX.3.D			
Lab	%	P2O5	
10	30.14		-0.615
35	30.05		-0.174
10	30.02		0.000
<b>Median</b>	<b>30.02</b>		<b>0.000</b>
<b>Std Dev</b>	<b>29.82</b>		<b>1.000</b>
16	29.78		1.166
266	29.56		2.276

213 AOAC 962.02-15th			
Lab	%	P2O5	
9	29.88		-1.340
<b>Std Dev</b>	<b>29.88</b>		<b>-1.000</b>
<b>Median</b>	<b>29.86</b>		<b>0.000</b>
<b>Std Dev</b>	<b>29.85</b>		<b>1.000</b>
9	29.85		1.340

214 Photometric-AFPC IX.3.C			
Lab	%	P2O5	
21	30.36		-2.353
49	30.31		-2.075
21	30.28		-1.930
<b>Std Dev</b>	<b>30.12</b>		<b>-1.000</b>
13	30.10		-0.875
35	30.05		-0.594
30	30.00		-0.311
13	29.99		-0.282
24	29.94		0.000
<b>Median</b>	<b>29.94</b>		<b>0.000</b>
26	29.88		0.346
24	29.88		0.356
16	29.87		0.432
15	29.80		0.780
15	29.80		0.780
<b>Std Dev</b>	<b>29.77</b>		<b>1.000</b>
26	29.76		1.029
27	29.56		2.184

215 Automated -AOAC 978.01-15th			
Lab	%	P2O5	dB
86	30.00		-1.067
<b>Std Dev</b>	<b>29.99</b>		<b>-1.000</b>
86	29.99		-0.984
85	29.85		0.000
<b>Median</b>	<b>29.85</b>		<b>0.000</b>
85	29.81		0.356
<b>Std Dev</b>	<b>29.72</b>		<b>1.000</b>
77	29.53		2.400

301 Atomic Absorption-AFPC IX.6.B			
Lab	%	Fe2O3	
55	0.65		-1.340
<b>Std Dev</b>	<b>0.64</b>		<b>-1.000</b>
<b>Median</b>	<b>0.63</b>		<b>0.000</b>
<b>Std Dev</b>	<b>0.62</b>		<b>1.000</b>
30	0.62		1.340

302 ICP-induced coupled plasma-AFPC IX.6.C			
Lab	%	Fe2O3	
15	1.44		-17.613
15	1.44		-17.613
35	0.79		-3.570
35	0.75		-2.819
28	0.74		-2.649
28	0.70		-1.643
266	0.68		-1.319
<b>Std Dev</b>	<b>0.67</b>		<b>-1.000</b>
85	0.65		-0.568
84	0.64		-0.461
84	0.64		-0.354
85	0.64		-0.354
86	0.64		-0.354
22	0.63		-0.247
51	0.63		-0.139
16	0.62		-0.043
82	0.62		-0.032
<b>Median</b>	<b>0.62</b>		<b>0.000</b>
16	0.62		0.032
81	0.61		0.182
51	0.61		0.289
92	0.61		0.289

92	0.61		0.289
45	0.59		0.718
10	0.58		0.825
49	0.58		0.825
24	0.58		0.933
<b>Std Dev</b>	<b>0.57</b>		<b>1.000</b>
10	0.56		1.254
13	0.56		1.254
24	0.56		1.254
21	0.55		1.469
9	0.55		1.576
9	0.55		1.576
21	0.53		1.897
13	0.53		2.005

303 Other(describe)			
Lab	%	Fe2O3	
77	0.73		-1.064
<b>Std Dev</b>	<b>0.73</b>		<b>-1.000</b>
77	0.70		-0.591
<b>Median</b>	<b>0.66</b>		<b>0.000</b>
22	0.63		0.591
56	0.62		0.749

401 Atomic Absorption-AFPC IX.6.B			
Lab	%	Al2O3	
55	0.64		-1.340
<b>Std Dev</b>	<b>0.63</b>		<b>-1.000</b>
<b>Median</b>	<b>0.60</b>		<b>0.000</b>
<b>Std Dev</b>	<b>0.57</b>		<b>1.000</b>
30	0.57		1.340

402 ICP-induced coupled plasma-AFPC IX.6.C			
Lab	%	Al2O3	
266	0.97		-4.505
15	0.96		-4.392
15	0.96		-4.392
22	0.67		-1.120
<b>Std Dev</b>	<b>0.66</b>		<b>-1.000</b>
84	0.66		-0.951
84	0.65		-0.894
86	0.65		-0.894
86	0.65		-0.838
85	0.64		-0.781

85	0.64		-0.725
45	0.62		-0.556
35	0.61		-0.386
28	0.60		-0.342
28	0.60		-0.309
92	0.60		-0.274
92	0.59		-0.217
35	0.58		-0.048
<b>Median</b>	<b>0.57</b>		<b>0.000</b>
16	0.57		0.048
16	0.56		0.071
13	0.56		0.178
82	0.55		0.234
49	0.54		0.347
21	0.54		0.403
51	0.54		0.403
10	0.52		0.573
10	0.52		0.573
13	0.52		0.573
81	0.52		0.573
9	0.52		0.629
21	0.52		0.629
51	0.52		0.629
9	0.51		0.742
24	0.50		0.855
<b>Std Dev</b>	<b>0.48</b>		<b>1.000</b>
24	0.48		1.024

403 Other(describe)			
Lab	%	Al2O3	
56	0.95		-1.819
<b>Std Dev</b>	<b>0.92</b>		<b>-1.000</b>
22	0.91		-0.479
<b>Median</b>	<b>0.90</b>		<b>0.000</b>
77	0.89		0.479
77	0.88		0.670

501 Atomic Absorption-AFPC IX.8.A			
Lab	%	MgO	
35	0.86		-1.033
<b>Std Dev</b>	<b>0.85</b>		<b>-1.000</b>
35	0.84		-0.949
30	0.67		0.000
<b>Median</b>	<b>0.67</b>		<b>0.000</b>

502 ICP-induced coupled plasma-AFPC IX.8.B			
Lab	%	MgO	
87	0.78		-2.871
21	0.77		-2.489
28	0.75		-1.910
13	0.75		-1.723
21	0.74		-1.531
28	0.73		-1.175
49	0.73		-1.149
<b>Std Dev</b>	<b>0.73</b>		<b>-1.000</b>
10	0.72		-0.766
13	0.72		-0.574
45	0.71		-0.383
266	0.71		-0.383
16	0.71		-0.325
16	0.71		-0.211
92	0.71		-0.191
92	0.71		-0.191
9	0.70		0.000
10	0.70		0.000
82	0.70		0.000
<b>Median</b>	<b>0.70</b>		<b>0.000</b>
9	0.70		0.191
81	0.69		0.383
85	0.69		0.383
85	0.69		0.383
24	0.68		0.766
84	0.68		0.766
84	0.68		0.766
24	0.68		0.957
<b>Std Dev</b>	<b>0.67</b>		<b>1.000</b>
86	0.67		1.149
51	0.67		1.340
86	0.66		1.531
22	0.65		1.914
51	0.65		2.106
15	0.31		14.931
15	0.31		14.931

503 Other(describe)			
Lab	%	MgO	

77	0.83	-1.552
Std Dev	0.79	-1.000
77	0.76	-0.494
22	0.72	0.000
Median	0.72	0.000
56	0.66	0.846
87	0.66	0.917

601 Insoluble-AFPC IX.4.A		
Lab	%	AI
13	4.40	-1.944
10	4.37	-1.821
Std Dev	4.17	-1.000
10	4.16	-0.962
9	4.13	-0.839
9	4.12	-0.798
16	4.09	-0.665
13	4.07	-0.593
16	4.04	-0.481
49	3.99	-0.245
21	3.97	-0.164
22	3.93	0.000
Median	3.93	0.000

55	3.90	0.102
30	3.85	0.327
45	3.81	0.491
15	3.76	0.675
15	3.76	0.675
51	3.72	0.839
Std Dev	3.68	1.000
51	3.58	1.432
24	3.57	1.453
26	3.29	2.598
26	3.28	2.639

602 Other(describe)		
Lab	%	AI
21	3.96	-1.014
Std Dev	3.95	-1.000
266	3.77	-0.615
Median	3.49	0.000
35	3.20	0.615
35	3.18	0.658

651 Gasometric-AFPC IX.13.B			
Lab	%	CO2	
15	5.08	-2.741	
15	5.08	-2.741	
30	4.92	-1.766	
Std Dev	4.79	-1.000	
55	4.79	-0.944	
9	4.72	-0.548	
9	4.72	-0.548	
21	4.66	-0.183	
21	4.66	-0.183	
24	4.63	0.000	
Median	4.63	0.000	
16	4.63	0.000	
16	4.63	0.030	
77	4.57	0.396	
24	4.50	0.792	
Std Dev	4.47	1.000	
13	4.41	1.370	
49	4.26	2.254	
13	4.23	2.436	
87	4.22	2.528	

652 Other(describe)			
Lab	%	CO2	
35	10.06	-14.678	
35	9.95	-14.357	
266	6.22	-3.461	
87	5.65	-1.782	
Std Dev	5.38	-1.000	
51	5.26	-0.657	
51	5.12	-0.234	
82	5.07	-0.088	
85	5.05	-0.044	
Median	5.04	0.000	
84	5.02	0.044	
85	5.00	0.102	
84	5.00	0.117	
22	4.93	0.321	
86	4.82	0.643	
86	4.80	0.686	
Std Dev	4.69	1.000	
56	4.54	1.446	
81	4.35	2.001	

701 Gravimetric sulfate-AFPC IX.12.A			
Lab	%	CaO	
113	45.82	-0.760	
113	45.75	-0.596	
Median	45.47	0.000	
22	45.20	0.596	
Std Dev	45.02	1.000	
55	45.01	1.023	

702 ICP-induced coupled plasma-AFPC IX.12.D			
Lab	%	CaO	
28	48.29	-8.642	
81	46.75	-3.833	
28	46.35	-2.596	
16	46.01	-1.516	
16	45.90	-1.170	
49	45.85	-1.028	
Std Dev	45.84	-1.000	
82	45.80	-0.873	
21	45.69	-0.530	
10	45.61	-0.280	
21	45.55	-0.078	
10	45.52	0.000	
Median	45.52	0.000	
92	45.52	0.000	
51	45.52	0.016	
92	45.43	0.280	
13	45.43	0.296	
51	45.42	0.312	
13	45.40	0.374	
45	45.39	0.405	
9	45.38	0.452	
9	45.33	0.592	
Std Dev	45.20	1.000	
266	44.39	3.521	

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

704 Permanganate			
Lab	%	CaO	
30	45.83	-1.340	

Std Dev	45.70	-1.000	
Median	45.31	0.000	
Std Dev	44.92	1.000	
27	44.79	1.340	

705 EDTA Volumetric-AFPC IX.12.C			
Lab	%	CaO	
Median	0.00	0.000	

706 Other(describe)			
Lab	%	CaO	
35	50.27	-4.951	
35	50.27	-4.951	
77	47.30	-1.596	
77	47.19	-1.471	
Std Dev	46.77	-1.000	
56	46.15	-0.302	
84	45.92	-0.042	
86	45.92	-0.042	
Median	45.88	0.000	
84	45.85	0.042	
86	45.78	0.121	
15	45.74	0.161	
15	45.74	0.161	
22	45.73	0.178	
24	45.45	0.489	
24	45.35	0.602	

711 Gravimetric sulfate-AFPC IX.12.A				
Lab	%	CaO	dB	
113	46.00	-1.945		
Std Dev	45.96	-1.000		
22	45.92	0.000		
Median	45.92	0.000		
55	45.88	0.735		

712 ICP-induced coupled plasma-AFPC IX.12.D				
Lab	%	CaO	dB	
49	46.73	-3.120		
21	46.52	-1.575		
Std Dev	46.44	-1.000		
10	46.41	-0.804		
10	46.38	-0.582		
16	46.33	-0.223		

21	46.31	-0.076
Median	46.30	0.000
13	46.29	0.076
16	46.28	0.203
13	46.25	0.402
Std Dev	46.17	1.000
9	46.08	1.605
9	46.00	2.232
266	45.16	8.408

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

714	Permanganate		
Lab	%	CaO	dB
30	46.40		-1.340
Std Dev	46.29		-1.000
Median	45.97		0.000
Std Dev	45.65		1.000
27	45.54		1.340

715	EDTA Volumetric-AFPC IX.12.C		
Lab	%	CaO	dB
Median	0.00		0.000

716	Other(describe)		
Lab	%	CaO	dB
35	50.84		-5.300
35	50.82		-5.278
77	47.50		-1.171
77	47.38		-1.029
Std Dev	47.36		-1.000
86	46.61		-0.081
84	46.58		-0.043
Median	46.55		0.000
84	46.51		0.043
86	46.48		0.090
24	46.35		0.244
15	46.25		0.369
15	46.25		0.369
24	46.21		0.423

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	
84	3.55		-7.113
86	3.55		-7.113
84	3.53		-6.964
86	3.50		-6.667
26	2.96		-1.307
26	2.95		-1.207
Std Dev	2.93		-1.000
9	2.92		-0.910
22	2.92		-0.910
27	2.92		-0.910
24	2.91		-0.810
81	2.90		-0.711
13	2.90		-0.661
9	2.89		-0.562
51	2.88		-0.463
13	2.87		-0.364
28	2.83		-0.033
Median	2.83		0.000
16	2.83		0.033
15	2.82		0.083
15	2.82		0.083
266	2.81		0.182
16	2.81		0.232
35	2.81		0.232
82	2.81		0.232
30	2.79		0.430
35	2.79		0.430
51	2.78		0.480
49	2.76		0.679
24	2.76		0.728
55	2.75		0.778
Std Dev	2.73		1.000
21	2.72		1.076
21	2.67		1.572
113	2.10		7.230

803	Other( describe)		
Lab	%	Fluorine, F	

22	2.75	0.000
77	2.75	0.000
Median	2.75	0.000
Std Dev	2.73	1.000
77	2.71	2.680

911	Atomic Absorption-AFPC		
Lab	ppm	Arsenic, As	
113	3.4		0.000
Median	3.4		0.000

912	ICP-induced coupled plasma-AFPC IX.15.B		
Lab	ppm	Arsenic, As	
85	20.5		-4.065
85	20.5		-4.065
Std Dev	9.6		-1.000
266	9.5		-0.960
84	9.0		-0.819
84	9.0		-0.819
82	7.1		-0.282
24	6.7		-0.169
22	6.5		-0.119
24	6.1		0.000
Median	6.1		0.000
35	5.0		0.311
51	5.0		0.311
16	4.3		0.513
16	4.3		0.521
51	4.0		0.593
113	3.7		0.692
81	3.5		0.734
35	3.0		0.875

913	Other(describe)		
Lab	ppm	Arsenic, As	
13	13.3		-12.220
Std Dev	6.6		-1.000
28	6.1		-0.236
77	6.0		0.000
Median	6.0		0.000
Std Dev	5.4		1.000
28	5.3		1.104
77	4.0		3.371

921	Atomic Absorption-AFPC IX.11.A		
Lab	ppm	Cadmium, Cd	
55	36		0.000
Median	36		0.000

922	ICP-induced coupled plasma-AFPC IX.11.B		
Lab	ppm	Cadmium, Cd	
16	49		-1.196
16	48		-1.081
Std Dev	48		-1.000
45	48		-0.981
77	48		-0.867
77	46		-0.411
86	45		-0.297
84	45		-0.182
84	45		-0.182
85	45		-0.182
85	45		-0.182
86	45		-0.182
Median	44		0.000
266	43		0.182
113	42		0.468
22	42		0.481
81	41		0.616
Std Dev	39		1.000
24	39		1.072
51	39		1.072
113	38		1.243
35	38		1.300
24	38		1.391
51	38		1.414
35	37		1.528

923	Other(describe)		
Lab	ppm	Cadmium, Cd	
13	57		-2.458
Std Dev	47		-1.000
28	39		0.000
Median	39		0.000
28	38		0.222

931	Atomic Absorption-AFPC IX.16.B		
Lab	ppm	Cobalt, Co	
55	1		0.000

Median	1	0.000
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932 ICP-induced coupled plasma-AFPC IX.16.A

Lab	ppm	Cobalt, Co
35	<1	0.000
35	<1	0.000
45	1	-0.766
77	1	-0.766
77	1	-0.766
22	1	-0.191
81	1	0.000
Median	1	0.000
16	1	0.291
82	1	0.574
Std Dev	1	1.000
16	1	1.009
266		1.531

933 Other(describe)

Lab	ppm	Cobalt, Co
13	4	-2.664
Std Dev	2	-1.000
28	1	0.000
Median	1	0.000
28	1	0.016

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	0.000
35	<1	0.000
266	30.0	-1.340
Std Dev	26.2	-1.000
Median	15.0	0.000
22		1.340

943 Other(describe)

Lab	ppm	Mercury, Hg
24	39.0	-0.670
24	39.0	-0.670
Median	19.6	0.000

55	66	0.000
Median	66	0.000

992 ICP-induced coupled plasma-AFPC IX.16.A

Lab	ppm	Zinc, Zn
24	103	-6.484
24	99	-5.619
77	84	-2.161
35	83	-1.820
35	79	-1.024
Std Dev	79	-1.000
22	78	-0.860
84	77	-0.455
84	76	-0.341
16	75	-0.196
77	75	0.000

13	0.1	0.670
82	0.1	0.671

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
77	16	-10.154
77	14	-7.461
Std Dev	9	-1.000
82	9	-0.593
16	9	-0.108
81	9	-0.054
22	8	0.000
Median	8	0.000
16	8	0.197
24	8	0.956
Std Dev	8	1.000
24	8	1.024
266	8	1.239
45	6	3.313

953 Other(describe)

Lab	ppm	Iolybdenum, Mo
13	16	-2.559
Std Dev	12	-1.000
28	9	0.000
Median	9	0.000
28	9	0.121

961 Atomic Absorption-AFPC IX.16.B

Lab	ppm	Nickel, Ni
55	12	0.000
Median	12	0.000

962 ICP-induced coupled plasma-AFPC IX.16.A

Lab	ppm	Nickel, Ni
77	24	-6.492
77	23	-5.680
35	15	-1.352
81	15	-1.352

16	14	-1.112
Std Dev	14	-1.000
16	14	-0.853
28	14	-0.833
35	13	-0.270
85	13	-0.270
28	12	-0.011
45	12	0.000
84	12	0.000
85	12	0.000
Median	12	0.000
24	12	0.270
84	12	0.270
82	11	0.487
22	11	0.538
24	11	0.595
113	10	0.947
Std Dev	10	1.000
113	10	1.025
266	9	1.893

963 Other(describe)

Lab	ppm	Nickel, Ni
13	13	0.000
Median	13	0.000

971 Atomic Absorption-AFPC IX.16.B

Lab	ppm	Lead, Pb
55	5	0.000
Median	5	0.000

972 ICP-induced coupled plasma-AFPC IX.16.A

Lab	ppm	Lead, Pb
113	9	-3.469
113	8	-2.332
22	7	-2.090
Std Dev	6	-1.000
51	6	-0.447
84	6	-0.447
266	6	-0.447
16	5	-0.429
16	5	-0.261
35	5	0.000
84	5	0.000

Median	5	0.000
35	5	0.447
51	5	0.447
81	4	0.625
77	4	0.893
77	4	0.893
85	4	0.893
85	4	0.893
Std Dev	4	1.000
82	3	1.519
24	3	1.876

973 Other(describe)

Lab	ppm	Lead, Pb
13	12	-1.340
Std Dev	12	-1.000
Median	12	0.000
Std Dev	12	1.000
28	12	1.340

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
113	3	-1.038
Std Dev	3	-1.000
113	2	-0.178
Median	2	0.000
266	2	0.178
Std Dev	2	1.000
22	0	3.253

983 Other(describe)

Lab	ppm	Selenium, Se
13	12	-2.428
Std Dev	6	-1.000
28	3	0.000
Median	3	0.000
28	2	0.252

991 Atomic Absorption-AFPC IX.16.B

Lab	ppm	Zinc, Zn
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Median	75	0.000
16	74	0.123
45	73	0.341
81	73	0.341
85	73	0.341
85	73	0.455
82	71	0.728
266	71	0.751
113	71	0.762
Std Dev	70	1.000
113	66	1.934

993	Other(describe)	
Lab	ppm	Zinc, Zn
13	85	0.000
Median	85	0.000