

# AFPC Rock Check Program

Sample No. 2017-08

	Method #	# of Anal.	Grand Median	Std Dev
<b>Moisture</b>				
Ground Sample AFPC IX.2.A	101	28	1.95	0.140
Other (describe)	102	2	1.61	0.188
<b>Method Group 100</b>		<b>30</b>	<b>1.93</b>	<b>0.14</b>
<b>P<sub>2</sub>O<sub>5</sub></b>				
Gravimetric AFPC IX.3.B	201	4	28.93	0.092
ICP-induced coupled plasma AFPC IX.3.D	202	3	29.00	0.075
Photometric-AFPC IX.3.C	203	18	29.13	0.197
Automated -AOAC 978.01-15th	204	11	28.91	0.129
Other(describe)	205	3	29.19	0.353
<b>Method Group 200</b>		<b>39</b>	<b>28.99</b>	<b>0.20</b>
<b>P<sub>2</sub>O<sub>5</sub> (on Dry Basis)</b>				
Gravimetric AFPC IX.3.B	211	2	29.35	0.042
ICP-induced coupled plasma AFPC IX.3.D	212	3	29.61	0.068
Photometric-AFPC IX.3.C	213	12	29.68	0.111
Automated -AOAC 978.01-15th	214	11	29.46	0.106
Other(describe)	215	2	29.90	0.161
<b>Method Group 210</b>		<b>30</b>	<b>29.56</b>	<b>0.18</b>
<b>Fe<sub>2</sub>O<sub>3</sub></b>				
Atomic Absorption-AFPC IX.6.B	301	2	0.52	0.015
ICP-induced coupled plasma-AFPC IX.6.C	302	28	0.56	0.212
Other(describe)	303	7	0.60	0.039
<b>Method Group 300</b>		<b>37</b>	<b>0.59</b>	<b>0.21</b>
<b>Al<sub>2</sub>O<sub>3</sub></b>				
Atomic Absorption-AFPC IX.7.B	401	2	0.43	0.022
ICP-induced coupled plasma-AFPC IX.7.C	402	29	0.32	0.055
Other(describe)	403	6	0.39	0.011
<b>Method Group 400</b>		<b>37</b>	<b>0.34</b>	<b>0.07</b>
<b>MgO</b>				
Atomic Absorption-AFPC IX.8.A	501	2	0.69	0.060
ICP-induced coupled plasma-AFPC IX.8.B	502	29	0.73	0.030
Other(describe)	503	6	0.74	0.016
<b>Method Group 500</b>		<b>37</b>	<b>0.73</b>	<b>0.03</b>
<b>Acid Insoluble</b>				
Insoluble-AFPC IX.4.A	601	21	1.93	0.272
Other(describe)	602	5	1.95	1.138
<b>Method Group 600</b>		<b>26</b>	<b>1.95</b>	<b>0.26</b>
<b>Carbon Dioxide</b>				
Gasometric-AFPC IX.13.B	651	16	6.90	0.336
Other(describe)	652	8	6.90	0.931
<b>Method Group 650</b>		<b>24</b>	<b>6.90</b>	<b>0.46</b>
<b>CaO</b>				
Gravimetric sulfate-AFPC IX.12.A	701			
ICP-induced coupled plasma-AFPC IX.12.D	702	24	47.87	0.974
Ceric Sulfate volumetric-AFPC IX.12.B	703			
Permanganate	704	1	48.31	0.000
EDTA Volumetric-AFPC IX.12.C	705	1	49.09	0.000
Other(describe)	706	11	47.93	0.291
<b>Method Group 700</b>		<b>37</b>	<b>47.93</b>	<b>0.44</b>
<b>CaO (on Dry Basis)</b>				
Gravimetric sulfate-AFPC IX.12.A	711			
ICP-induced coupled plasma-AFPC IX.12.D	712	18	48.85	0.534
Ceric Sulfate volumetric-AFPC IX.12.B	713			
Permanganate	714	1	49.18	0.000
EDTA Volumetric-AFPC IX.12.C	715	1	50.14	0.000
Other(describe)	716	9	48.76	0.078
<b>Method Group 710</b>		<b>28</b>	<b>48.83</b>	<b>0.26</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	24	3.43	0.100
Other (describe)	803	5	3.42	0.060
<b>Method Group 800</b>		<b>29</b>	<b>3.43</b>	<b>0.09</b>
<b>Arsenic, As</b>				
Atomic Absorption	911	1	13.8	0.00
ICP-induced coupled plasma-AFPC IX.15.B	912	12	11.5	3.88
Other(describe)	913	4	11.9	3.00
<b>Method Group 900</b>		<b>17</b>	<b>12.0</b>	<b>3.36</b>
<b>Cadmium, Cd</b>				
Atomic Absorption-AFPC IX.11.A	921	1	41	0.0
ICP-induced coupled plasma-AFPC IX.11.B	922	14	40	3.5
Other(describe)	923	4	41	1.5
<b>Method Group 910</b>		<b>19</b>	<b>41</b>	<b>3.4</b>
<b>Cobalt, Co</b>				
Atomic Absorption-AFPC IX.16.B	931	1	2	0.0
ICP-induced coupled plasma-AFPC IX.16.A	932	11	2	1.6
Other(describe)	933	4	3	1.1
<b>Method Group 920</b>		<b>16</b>	<b>2</b>	<b>1.7</b>
<b>Mercury, Hg</b>				
Atomic Absorption-AFPC IX.16.B	941			
ICP-induced coupled plasma-AFPC IX.16.A	942	2	0.0	0.02
Other(describe)	943	3		0.06
<b>Method Group 930</b>		<b>5</b>	<b>0.0</b>	<b>0.05</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	1.4
Other(describe)	953	2	9	0.5
<b>Method Group 940</b>		<b>14</b>	<b>8</b>	<b>0.8</b>
<b>Nickel, Ni</b>				
Atomic Absorption-AFPC IX.16.B	961	1	18	0.0
ICP-induced coupled plasma-AFPC IX.16.A	962	12	18	4.3
Other(describe)	963	4	19	1.0
<b>Method Group 950</b>		<b>17</b>	<b>18</b>	<b>1.7</b>
<b>Lead, Pb</b>				
Atomic Absorption-AFPC IX.16.B	971	1	3	0.0
ICP-induced coupled plasma-AFPC IX.16.A	972	11	5	3.8
Other(describe)	973	4	6	2.4
<b>Method Group 960</b>		<b>16</b>	<b>6</b>	<b>2.9</b>
<b>Selenium, Se</b>				
Atomic Absorption-AFPC IX.16.B	981			
ICP-induced coupled plasma-AFPC IX.16.A	982	2	2	0.1
Other(describe)	983	3	5	2.8
<b>Method Group 970</b>		<b>5</b>	<b>2</b>	<b>2.5</b>
<b>Zinc, Zn</b>				
Atomic Absorption-AFPC IX.16.B	991	1	335	0
ICP-induced coupled plasma-AFPC IX.16.A	992	12	326	53
Other(describe)	993	4	331	50
<b>Method Group 980</b>		<b>17</b>	<b>327</b>	<b>50</b>

101 Ground Sample AFPC IX.2.A			
Lab	%	H <sub>2</sub> O	
49	2.20	-1.822	
52	2.17	-1.608	
266	2.10	-1.108	
49	2.10	-1.072	
<b>Std Dev</b>	<b>2.08</b>	<b>-1.000</b>	
75	2.08	-0.929	
21	2.07	-0.893	
10	2.06	-0.822	
21	2.04	-0.643	
10	2.03	-0.607	
75	2.03	-0.572	
13	2.00	-0.357	
24	1.98	-0.250	
24	1.96	-0.107	
26	1.95	-0.036	
<b>Median</b>	<b>1.95</b>	<b>0.000</b>	
13	1.94	0.036	
6	1.93	0.143	
6	1.91	0.286	
55	1.90	0.322	
61	1.89	0.393	
61	1.88	0.465	
15	1.86	0.643	
9	1.85	0.679	
15	1.84	0.750	
9	1.83	0.822	
<b>Std Dev</b>	<b>1.81</b>	<b>1.000</b>	
30	1.76	1.322	
20	1.66	2.037	
77	0.54	10.041	
77	0.40	11.042	

  

102 Other (describe)			
Lab	%	H <sub>2</sub> O	
69	1.86	-1.340	
<b>Std Dev</b>	<b>1.80</b>	<b>-1.000</b>	
<b>Median</b>	<b>1.61</b>	<b>0.000</b>	
<b>Std Dev</b>	<b>1.42</b>	<b>1.000</b>	
20	1.36	1.340	

  

201 Gravimetric AFPC IX.3.B			
Lab	%	P2O5	
77	29.18	-2.734	
<b>Std Dev</b>	<b>29.02</b>	<b>-1.000</b>	
56	28.96	-0.298	
<b>Median</b>	<b>28.93</b>	<b>0.000</b>	
65	28.90	0.298	
55	28.85	0.839	

202 ICP-induced coupled plasma AFPC IX.3.D			
Lab	%	P2O5	
10	29.03	-0.402	
10	29.00	0.000	
<b>Median</b>	<b>29.00</b>	<b>0.000</b>	
<b>Std Dev</b>	<b>28.93</b>	<b>1.000</b>	
266	28.83	2.278	

  

203 Photometric-AFPC IX.3.C			
Lab	%	P2O5	
78	29.72	-3.010	
78	29.64	-2.578	
<b>Std Dev</b>	<b>29.32</b>	<b>-1.000</b>	
51	29.28	-0.775	
61	29.27	-0.724	
69	29.24	-0.572	
9	29.17	-0.216	
30	29.17	-0.216	
51	29.17	-0.216	
9	29.16	-0.165	
<b>Median</b>	<b>29.13</b>	<b>0.000</b>	
6	29.10	0.165	
49	29.10	0.165	
49	29.04	0.470	
6	28.99	0.724	
92	28.95	0.902	
52	28.94	0.953	
<b>Std Dev</b>	<b>28.93</b>	<b>1.000</b>	
92	28.93	1.003	
61	28.92	1.054	
26	28.85	1.410	

  

204 Automated -AOAC 978.01-15th			
Lab	%	P2O5	
77	29.35	-3.457	
13	29.08	-1.359	
<b>Std Dev</b>	<b>29.03</b>	<b>-1.000</b>	

13	28.99	-0.621	
21	28.95	-0.311	
15	28.92	-0.078	
24	28.91	0.000	
<b>Median</b>	<b>28.91</b>	<b>0.000</b>	
24	28.83	0.583	
21	28.82	0.660	
<b>Std Dev</b>	<b>28.78</b>	<b>1.000</b>	
75	28.77	1.088	
15	28.76	1.126	
75	28.74	1.282	

  

205 Other (describe)			
Lab	%	P2O5	
20	29.71	-1.461	
<b>Std Dev</b>	<b>29.54</b>	<b>-1.000</b>	
20	29.19	0.000	
<b>Median</b>	<b>29.19</b>	<b>0.000</b>	
<b>Std Dev</b>	<b>28.84</b>	<b>1.000</b>	
56	28.76	1.219	

  

211 Gravimetric AFPC IX.3.B			
Lab	%	P2O5	dB
55	29.41	-1.340	
<b>Std Dev</b>	<b>29.39</b>	<b>-1.000</b>	
<b>Median</b>	<b>29.35</b>	<b>0.000</b>	
<b>Std Dev</b>	<b>29.31</b>	<b>1.000</b>	
77	29.30	1.340	

  

212 ICP-induced coupled plasma AFPC IX.3.D			
Lab	%	P2O5	dB
10	29.63	-0.315	
10	29.61	0.000	
<b>Median</b>	<b>29.61</b>	<b>0.000</b>	
<b>Std Dev</b>	<b>29.54</b>	<b>1.000</b>	
266	29.45	2.365	

  

213 Photometric-AFPC IX.3.C			
Lab	%	P2O5	dB
61	29.83	-1.360	
69	29.80	-1.043	
<b>Std Dev</b>	<b>29.79</b>	<b>-1.000</b>	
49	29.75	-0.630	
9	29.71	-0.309	

9	29.71	-0.272	
30	29.69	-0.119	
<b>Median</b>	<b>29.68</b>	<b>0.000</b>	
6	29.67	0.119	
49	29.66	0.207	
52	29.58	0.874	
<b>Std Dev</b>	<b>29.57</b>	<b>1.000</b>	
6	29.55	1.180	
61	29.48	1.815	
26	29.42	2.294	

  

214 Automated -AOAC 978.01-15th			
Lab	%	P2O5	dB
13	29.66	-1.831	
13	29.58	-1.072	
<b>Std Dev</b>	<b>29.57</b>	<b>-1.000</b>	
21	29.55	-0.801	
77	29.51	-0.452	
24	29.48	-0.202	
15	29.46	0.000	
<b>Median</b>	<b>29.46</b>	<b>0.000</b>	
21	29.43	0.305	
24	29.41	0.464	
75	29.36	0.963	
<b>Std Dev</b>	<b>29.36</b>	<b>1.000</b>	
75	29.35	1.063	
15	29.30	1.534	

  

215 Other (describe)			
Lab	%	P2O5	dB
20	30.11	-1.340	
<b>Std Dev</b>	<b>30.06</b>	<b>-1.000</b>	
<b>Median</b>	<b>29.90</b>	<b>0.000</b>	
<b>Std Dev</b>	<b>29.74</b>	<b>1.000</b>	
20	29.68	1.340	

  

301 Atomic Absorption-AFPC IX.6.B			
Lab	%	Fe2O3	
55	0.54	-1.340	
<b>Std Dev</b>	<b>0.53</b>	<b>-1.000</b>	
<b>Median</b>	<b>0.52</b>	<b>0.000</b>	
<b>Std Dev</b>	<b>0.51</b>	<b>1.000</b>	
30	0.50	1.340	

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

78	1.24	-3.223
78	1.21	-3.081
<b>Std Dev</b>	<b>0.77</b>	<b>-1.000</b>
61	0.67	-0.531
51	0.66	-0.484
52	0.66	-0.484
51	0.65	-0.437
266	0.64	-0.390
15	0.63	-0.342
15	0.63	-0.319
92	0.61	-0.248
92	0.61	-0.248
75	0.60	-0.178
75	0.59	-0.177
24	0.57	-0.035
<b>Median</b>	<b>0.56</b>	<b>0.000</b>
24	0.55	0.035
61	0.51	0.203
9	0.37	0.909
21	0.36	0.933
6	0.36	0.956
13	0.36	0.956
10	0.35	0.980
<b>Std Dev</b>	<b>0.35</b>	<b>1.000</b>
6	0.35	1.004
10	0.34	1.027
13	0.34	1.027
21	0.34	1.051
49	0.33	1.074
9	0.32	1.122
49	0.32	1.122

303 Other(describe)			
Lab	%	Fe2O3	

56	0.81	-5.475
77	0.69	-2.412
<b>Std Dev</b>	<b>0.63</b>	<b>-1.000</b>
20	0.60	-0.115
65	0.60	0.000
<b>Median</b>	<b>0.60</b>	<b>0.000</b>
20	0.60	0.013
77	0.59	0.140

<b>Std Dev</b>	<b>0.56</b>	<b>1.000</b>
69	0.53	1.672

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

30	0.46	-1.340
<b>Std Dev</b>	<b>0.45</b>	<b>-1.000</b>
<b>Median</b>	<b>0.43</b>	<b>0.000</b>
<b>Std Dev</b>	<b>0.41</b>	<b>1.000</b>
55	0.40	1.340

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

78	1.03	-12.944
78	0.97	-11.759
51	0.46	-2.552
52	0.46	-2.552
51	0.43	-2.005
61	0.41	-1.641
266	0.40	-1.459
<b>Std Dev</b>	<b>0.37</b>	<b>-1.000</b>
92	0.37	-0.912
92	0.37	-0.912
15	0.34	-0.273
49	0.34	-0.273
49	0.34	-0.273
9	0.33	-0.182
15	0.33	-0.182
9	0.32	0.000
10	0.32	0.000
24	0.32	0.000
<b>Median</b>	<b>0.32</b>	<b>0.000</b>
75	0.32	0.000
10	0.31	0.182
24	0.31	0.182
75	0.30	0.298
61	0.30	0.428
21	0.30	0.456
6	0.29	0.547
6	0.29	0.638
21	0.28	0.820
13	0.27	0.912
13	0.27	0.912
<b>Std Dev</b>	<b>0.27</b>	<b>1.000</b>

69	0.21	2.005
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403 Other(describe)			
Lab	%	Al2O3	

77	0.45	-5.692
<b>Std Dev</b>	<b>0.40</b>	<b>-1.000</b>
65	0.40	-0.522
20	0.40	-0.474
<b>Median</b>	<b>0.39</b>	<b>0.000</b>
20	0.39	0.474
77	0.38	0.949
<b>Std Dev</b>	<b>0.38</b>	<b>1.000</b>
56	0.32	6.641

501 Atomic Absorption-AFPC IX.8.A			
Lab	%	MgO	

55	0.77	-1.340
<b>Std Dev</b>	<b>0.75</b>	<b>-1.000</b>
<b>Median</b>	<b>0.69</b>	<b>0.000</b>
<b>Std Dev</b>	<b>0.63</b>	<b>1.000</b>
30	0.61	1.340

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

51	0.77	-1.508
61	0.77	-1.340
<b>Std Dev</b>	<b>0.75</b>	<b>-1.000</b>
21	0.75	-0.838
49	0.75	-0.838
51	0.75	-0.838
52	0.75	-0.838
13	0.74	-0.503
21	0.74	-0.503
9	0.74	-0.335
6	0.73	-0.168
10	0.73	-0.168
10	0.73	-0.168
49	0.73	-0.168
6	0.73	0.000
15	0.73	0.000
15	0.73	0.000
<b>Median</b>	<b>0.73</b>	<b>0.000</b>
9	0.72	0.168
13	0.72	0.168

92	0.72	0.168
24	0.71	0.503
92	0.71	0.503
24	0.70	0.838
266	0.70	0.838
<b>Std Dev</b>	<b>0.70</b>	<b>1.000</b>
69	0.61	3.853
75	0.60	4.095
75	0.60	4.248
61	0.60	4.338
78	0.46	8.877
78	0.46	8.877

503 Other(describe)			
Lab	%	MgO	

77	0.78	-2.337
<b>Std Dev</b>	<b>0.76</b>	<b>-1.000</b>
77	0.75	-0.467
20	0.75	-0.156
<b>Median</b>	<b>0.74</b>	<b>0.000</b>
20	0.74	0.156
<b>Std Dev</b>	<b>0.73</b>	<b>1.000</b>
65	0.72	1.215
56	0.71	2.026

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

15	2.29	-1.322
15	2.29	-1.303
<b>Std Dev</b>	<b>2.20</b>	<b>-1.000</b>
49	2.14	-0.771
21	2.12	-0.698
49	2.06	-0.459
55	2.04	-0.404
10	1.99	-0.220
10	1.98	-0.184
9	1.95	-0.055
13	1.95	-0.055
13	1.93	0.000
<b>Median</b>	<b>1.93</b>	<b>0.000</b>
9	1.90	0.110
21	1.84	0.349
24	1.81	0.459
24	1.78	0.551

61	1.68	0.936
Std Dev	1.66	1.000
51	1.58	1.285
26	1.55	1.395
51	1.51	1.542
30	1.50	1.579
69	1.50	1.579

602 Other(describe)			
Lab	%	AI	
20	4.03		-1.823
20	3.47		-1.336
Std Dev	3.09		-1.000
6	1.95		0.000
Median	1.95		0.000
6	1.95		0.004
266	1.49		0.404

651 Gasometric-AFPC IX.13.B			
Lab	%	CO2	
61	7.38		-1.429
6	7.30		-1.191
52	7.29		-1.161
Std Dev	7.24		-1.000
30	7.15		-0.744
77	7.07		-0.506
9	7.02		-0.357
9	7.02		-0.357
24	6.97		-0.194
Median	6.90		0.000
6	6.84		0.194
13	6.80		0.298
15	6.77		0.387
15	6.67		0.700
13	6.57		0.998
Std Dev	6.56		1.000
49	6.56		1.027
49	6.26		1.921
21	6.19		2.129

652 Other(describe)			
Lab	%	CO2	
51	8.11		-1.300
51	8.01		-1.192

Std Dev	7.83	-1.000
65	7.42	-0.553
20	6.90	0.000
55	6.90	0.000
Median	6.90	0.000
56	6.33	0.612
20	6.28	0.671
Std Dev	5.97	1.000
266	5.78	1.203

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	
61	49.53		-1.705
Std Dev	48.84		-1.000
51	48.71		-0.868
21	48.64		-0.796
51	48.60		-0.755
21	48.57		-0.719
92	48.30		-0.447
9	48.16		-0.303
9	48.05		-0.190
49	47.96		-0.098
6	47.94		-0.072
92	47.93		-0.067
10	47.88		-0.015
Median	47.87		0.000
49	47.85		0.015
10	47.83		0.036
6	47.71		0.164
13	47.67		0.200
13	47.43		0.447
69	47.32		0.560
Std Dev	46.89		1.000
52	45.60		2.326
78	44.34		3.625
78	44.23		3.738
75	42.90		5.102
75	42.36		5.656
61	39.35		8.743

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

704 Permanganate			
Lab	%	CaO	
30	48.31		0.000
Median	48.31		0.000

705 EDTA Volumetric-AFPC IX.12.C			
Lab	%	CaO	
266	49.09		0.000
Median	49.09		0.000

706 Other(describe)			
Lab	%	CaO	
77	48.60		-2.319
77	48.50		-1.976
65	48.30		-1.288
Std Dev	48.22		-1.000
20	48.02		-0.326
15	47.97		-0.137
24	47.93		0.000
Median	47.93		0.000
55	47.80		0.429
24	47.79		0.464
56	47.75		0.601
20	47.73		0.670
15	47.71		0.756

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
61	50.48		-3.049
21	49.67		-1.530
21	49.57		-1.354
Std Dev	49.38		-1.000
9	49.06		-0.387
49	48.99		-0.253
9	48.96		-0.196
49	48.93		-0.141

10	48.87	-0.040
6	48.87	-0.028
Median	48.85	0.000
10	48.84	0.028
6	48.64	0.393
13	48.61	0.445
13	48.40	0.853
Std Dev	48.32	1.000
69	48.22	1.184
52	46.61	4.194
75	43.80	9.450
75	43.23	10.522
61	40.10	16.382

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

714 Permanganate				
Lab	%	CaO	dB	
30	49.18			0.000
Median	49.18			0.000

715 EDTA Volumetric-AFPC IX.12.C				
Lab	%	CaO	dB	
266	50.14			0.000
Median	50.14			0.000

716 Other(describe)				
Lab	%	CaO	dB	
24	48.88			-1.532
15	48.86			-1.289
Std Dev	48.84			-1.000
20	48.83			-0.860
77	48.80			-0.407
77	48.76			0.000
Median	48.76			0.000
24	48.76			0.102
55	48.73			0.480
Std Dev	48.69			1.000
15	48.61			2.003
20	48.39			4.798

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	3.65	-2.179
21	3.61	-1.778
13	3.61	-1.728
21	3.60	-1.678
15	3.60	-1.628
Std Dev	3.53	-1.000
266	3.52	-0.877
30	3.49	-0.576
69	3.48	-0.476
6	3.46	-0.225
75	3.45	-0.175
24	3.44	-0.075
49	3.44	-0.075
Median	3.43	0.000
24	3.43	0.075
51	3.42	0.125
49	3.41	0.225
6	3.39	0.426
13	3.39	0.476
9	3.37	0.676
9	3.36	0.726
51	3.36	0.726
55	3.36	0.726
75	3.35	0.877
26	3.34	0.927
Std Dev	3.33	1.000
52	3.28	1.528

803 Other (describe)		
Lab	%	Fluorine, F

65	3.51	-1.424
Std Dev	3.48	-1.000
20	3.47	-0.838
77	3.42	0.000
Median	3.42	0.000
77	3.39	0.502
Std Dev	3.36	1.000
20	3.35	1.173

911 Atomic Absorption-AFPC		
Lab	ppm	Arsenic, As
55	13.8	0.000
Median	13.8	0.000

912 ICP-induced coupled plasma-AFPC IX.15.B		
Lab	ppm	Arsenic, As

78	16.3	-1.224
Std Dev	15.4	-1.000
69	15.2	-0.941
78	15.1	-0.915
52	14.0	-0.644
77	13.7	-0.567
51	12.0	-0.129
Median	11.5	0.000
51	11.0	0.129
266	11.0	0.129
61	9.4	0.554
61	8.2	0.850
Std Dev	7.6	1.000
24	5.6	1.533
24	5.4	1.572

913 Other (describe)		
Lab	ppm	Arsenic, As

13	14.2	-0.766
77	13.8	-0.633
Median	11.9	0.000
20	10.0	0.633
20	9.5	0.799

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

55	41	0.000
Median	41	0.000

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

52	45	-1.488
61	44	-1.135
Std Dev	43	-1.000
266	43	-0.811
77	42	-0.642

77	42	-0.642
75	41	-0.458
75	40	-0.063
Median	40	0.000
24	40	0.063
24	39	0.331
51	38	0.487
51	37	0.769
Std Dev	36	1.000
61	35	1.343
78	5	9.841
78	5	9.853

923 Other (describe)		
Lab	ppm	Cadmium, Cd

20	42	-0.508
13	42	-0.169
Median	41	0.000
20	41	0.169
Std Dev	40	1.000
69	36	3.837

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

55	2	0.000
Median	2	0.000

932 ICP-induced coupled plasma-AFPC IX.16.A		
Lab	ppm	Cobalt, Co

78	10	-5.237
78	10	-5.237
266	4	-1.232
Std Dev	3	-1.000
24	3	-0.616
24	2	-0.246
77	2	0.000
Median	2	0.000
61	1	0.062
77	1	0.308
75	1	0.524
75	0	0.863
61	0	0.924

933 Other (describe)		
Lab	ppm	Cobalt, Co

20	4	-0.638
20	4	-0.638
Median	3	0.000
69	3	0.638
13	2	0.896

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

Median	0.0	0.000
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942 ICP-induced coupled plasma-AFPC IX.16.A		
Lab	ppm	Mercury, Hg

266	0.1	-1.340
Std Dev	0.1	-1.000
Median	0.0	0.000
Std Dev	0.0	1.000
61	0.0	1.340

943 Other (describe)		
Lab	ppm	Mercury, Hg

13	0.2	-2.680
Std Dev	0.1	-1.000
61	0.0	0.000
69	0.0	0.000
Median	0.0	0.000

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

266	10	-1.507
24	10	-1.268
Std Dev	9	-1.000
24	9	-0.652
78	8	-0.254
77	8	-0.181
78	8	0.000
Median	8	0.000
77	8	0.109

61	8	0.181
Std Dev	6	1.000
61	6	1.594
20	3	3.441
20	3	3.441

953 Other(describe)		
Lab	ppm	Iolybdenum, Mo
13	10	-1.340
Std Dev	10	-1.000
Median	9	0.000
Std Dev	9	1.000
69	9	1.340

961 Atomic Absorption-AFPC IX.16.B		
Lab	ppm	Nickel, Ni
55	18	0.000
Median	18	0.000

962 ICP-induced coupled plasma-AFPC IX.16.A		
Lab	ppm	Nickel, Ni
78	30	-2.645
78	29	-2.527
52	25	-1.587
Std Dev	23	-1.000
77	21	-0.646
266	19	-0.153
75	18	-0.035
Median	18	0.000
75	18	0.035
77	18	0.059
24	17	0.259
Std Dev	14	1.000
24	14	1.058
61	0	4.290
61	0	4.290

963 Other(describe)		
Lab	ppm	Nickel, Ni
13	20	-1.729
Std Dev	19	-1.000
20	19	-0.511
Median	19	0.000
20	18	0.511

69	18	0.563
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971 Atomic Absorption-AFPC IX.16.B		
Lab	ppm	Lead, Pb
55	3	0.000
Median	3	0.000

972 ICP-induced coupled plasma-AFPC IX.16.A		
Lab	ppm	Lead, Pb
61	8	-0.667
77	7	-0.400
78	6	-0.387
78	6	-0.373
51	6	-0.267
51	5	0.000
Median	5	0.000
266	5	0.120
24	2	0.933
24	1	0.987
Std Dev	1	1.000
77	1	1.013
61	1	1.053

973 Other(describe)		
Lab	ppm	Lead, Pb
69	15	-3.635
Std Dev	9	-1.000
20	7	-0.102
Median	6	0.000
20	6	0.102
Std Dev	4	1.000
13	4	1.113

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	2	-1.340
Std Dev	2	-1.000
Median	2	0.000
Std Dev	2	1.000
61	2	1.340

983 Other(describe)		
Lab	ppm	Selenium, Se
61	8	-0.800
13	5	0.000
Median	5	0.000
Std Dev	2	1.000
69	0	1.880

991 Atomic Absorption-AFPC IX.16.B		
Lab	ppm	Zinc, Zn
55	335	0.000
Median	335	0.000

992 ICP-induced coupled plasma-AFPC IX.16.A		
Lab	ppm	Zinc, Zn
24	394	-1.285
24	391	-1.229
61	384	-1.109
Std Dev	379	-1.000
52	367	-0.782
77	328	-0.047
77	327	-0.028
Median	326	0.000
266	324	0.028
75	316	0.176
75	312	0.254
Std Dev	272	1.000
61	265	1.142
78	67	4.869
78	64	4.926

993 Other(describe)		
Lab	ppm	Zinc, Zn
20	371	-0.802
20	362	-0.612
Median	331	0.000
13	301	0.612
69	287	0.887