

Feed Phosphate

001.99 Ammoniacal Nitrogen		
Lab	Other	
28	0.32	-1.340
Std Dev	0.32	-1.000
Median	0.32	0.000
Std Dev	0.32	1.000
28	0.32	1.340

001.XX Ammoniacal Nitrogen		
Lab	Total Method	
28	0.32	-1.340
Std Dev	0.32	-1.000
Median	0.32	0.000
Std Dev	0.32	1.000
28	0.32	1.340

010.60 Total Nitrogen		
Lab	Combustion	
123	5.21	-2.655
Std Dev	1.99	-1.000
102	0.05	0.000
Median	0.05	0.000
80	0.00	0.025

010.XX Total Nitrogen		
Lab	Total Method	
123	5.21	-2.655
Std Dev	1.99	-1.000
102	0.05	0.000
Median	0.05	0.000
80	0.00	0.025

020.10 Total Phosphate		
Lab	Gravimetric Quimociac	
40	47.70	-2.515
Std Dev	31.84	-1.000
241	21.37	0.000
Median	21.37	0.000
77	19.65	0.165

020.20 Total Phosphate		
Lab	Spectrometric	
43	29.53	-36.534
43	29.50	-36.405

110	21.38	-1.587
Std Dev	21.24	-1.000
39	21.23	-0.922
61	21.16	-0.622
79	21.16	-0.622
61	21.11	-0.429
14	21.01	0.000
Median	21.01	0.000
14	21.00	0.064
24	20.97	0.193
24	20.94	0.322
220	20.82	0.815
102	20.80	0.896
Std Dev	20.78	1.000
123	20.06	4.074
103	19.62	5.960

020.40 Total Phosphate		
Lab	Automated	
66	21.42	-1.681
39	21.22	-1.130
Std Dev	21.17	-1.000
31	20.92	-0.303
Median	20.81	0.000
75	20.70	0.303
63	20.65	0.455
38	20.47	0.937

020.50 Total Phosphate		
Lab	ICP	
9	20.94	-1.340
Std Dev	20.90	-1.000
Median	20.78	0.000
Std Dev	20.66	1.000
50	20.62	1.340

020.99 Total Phosphate		
Lab	Other	
28	21.04	-1.340
Std Dev	20.96	-1.000
Median	20.72	0.000
Std Dev	20.47	1.000
28	20.39	1.340

020.XX Total Phosphate		
Lab	Total Method	
40	47.70	-66.925
43	29.53	-21.415
43	29.50	-21.340
66	21.42	-1.102
110	21.38	-1.002
Std Dev	21.38	-1.000
241	21.37	-0.977
39	21.23	-0.614
39	21.22	-0.601
61	21.16	-0.438
79	21.16	-0.438
61	21.11	-0.326
28	21.04	-0.150
14	21.01	-0.075
14	21.00	-0.038
Median	20.98	0.000
24	20.97	0.038
9	20.94	0.113
24	20.94	0.113
31	20.92	0.150
220	20.82	0.401
102	20.80	0.448
75	20.70	0.701
63	20.65	0.839
50	20.62	0.902
Std Dev	20.58	1.000
38	20.47	1.277
28	20.39	1.478
123	20.06	2.304
77	19.65	3.344
103	19.62	3.406

030.20 Insoluble Phosphate		
Lab	Spectrometric	
24	0.08	-1.340
Std Dev	0.07	-1.000
Median	0.07	0.000
Std Dev	0.07	1.000
24	0.07	1.340

030.99 Insoluble Phosphate		
Lab	Other	

28	0.53	-1.340
Std Dev	0.50	-1.000
Median	0.42	0.000
Std Dev	0.33	1.000
28	0.30	1.340

030.XX Insoluble Phosphate		
Lab	Total Method	
28	0.53	-1.610
Std Dev	0.40	-1.000
28	0.30	-0.529
Median	0.19	0.000
24	0.08	0.529
24	0.07	0.576

040.20 Indirect Available Phosphate		
Lab	Spectrometric	
24	20.89	-0.055
24	20.87	0.000
Median	20.87	0.000
Std Dev	20.51	1.000
123	19.92	2.625

040.XX Indirect Available Phosphate		
Lab	Total Method	
24	20.89	-0.055
24	20.87	0.000
Median	20.87	0.000
Std Dev	20.51	1.000
123	19.92	2.625

041.10 Direct Available Phosphate		
Lab	Gravimetric Quimociac	
44	21.15	0.000
Median	21.15	0.000

041.20 Direct Available Phosphate		
Lab	Spectrometric	
220	20.52	0.000
Median	20.52	0.000

041.40 Direct Available Phosphate		
Lab	Automated	
49	20.14	-1.340

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Std Dev	20.07	-1.000
Median	19.88	0.000
Std Dev	19.69	1.000
103	19.62	1.340

041.50 Direct Available Phosphate		
Lab	ICP	
80	49.60	0.000
Median	49.60	0.000

041.99 Direct Available Phosphate		
Lab	Other	
28	20.81	-1.340
Std Dev	20.72	-1.000
Median	20.47	0.000
Std Dev	20.21	1.000
28	20.12	1.340

041.XX Direct Available Phosphate		
Lab	Total Method	
80	49.60	-45.844
Std Dev	21.15	-1.000
44	21.15	-0.985
28	20.81	-0.457
220	20.52	0.000
Median	20.52	0.000
49	20.14	0.607
28	20.12	0.631
Std Dev	19.89	1.000
103	19.62	1.419

048.20 Water Soluble Phosphate		
Lab	Spectrometric	
24	16.49	-1.827
Std Dev	16.42	-1.000
220	16.34	0.000
Median	16.34	0.000
24	16.27	0.853

048.99 Water Soluble Phosphate		
Lab	Other	
44	23.34	0.000
Median	23.34	0.000

048.XX Water Soluble Phosphate			
Lab	Total Method		
44	23.34		-4.936
Std Dev	17.82		-1.000
24	16.49		-0.053
Median	16.42		0.000
220	16.34		0.053
24	16.27		0.103

050.00 Soluble Potash			
Lab	STPB Oxalate		
123	20.35		-2.677
Std Dev	7.72		-1.000
43	0.19		0.000
Median	0.19		0.000
43	0.17		0.003

050.60 Soluble Potash			
Lab	%K ₂ O	Flame Photometric(Oxalate)	
241	0.08		0.000
Median	0.08		0.000

050.99 Soluble Potash			
Lab	%K ₂ O	Other	
24	0.07		0.000
24	0.07		0.000
102	0.07		0.000
Median	0.07		0.000

050.XX Soluble Potash			
Lab	%K ₂ O	Total Method	
123	20.35		0.000
43	0.19		0.000
43	0.17		0.000
Std Dev	0.00		-1.000
241	0.08		0.000
Median	0.00		0.000
24	0.07		0.000
24	0.07		0.000
102	0.07		0.000

060.00 Free Water			
Lab	Vacuum Oven		
241	2.25		-2.600

Std Dev	1.95	-1.000
28	1.90	-0.711
28	1.80	-0.205
Median	1.76	0.000
220	1.72	0.205
14	1.59	0.939
Std Dev	1.57	1.000
14	1.57	1.019

060.10 Free Water		
Lab	Vacuum Desiccate	
61	1.62	-1.340
Std Dev	1.61	-1.000
Median	1.58	0.000
Std Dev	1.55	1.000
61	1.55	1.340

060.99 Free Water			
Lab	Other		
24	1.63		-1.340
Std Dev	1.62		-1.000
Median	1.57		0.000
Std Dev	1.53		1.000
24	1.52		1.340

060.XX Free Water			
Lab	Total Method		
241	2.25		-4.046
28	1.90		-1.748
28	1.80		-1.133
Std Dev	1.78		-1.000
220	1.72		-0.634
24	1.63		-0.032
Median	1.63		0.000
61	1.62		0.032
14	1.59		0.259
14	1.57		0.356
61	1.55		0.518
24	1.52		0.712

101.30 Acid Soluble Calcium			
Lab	%CaO	ICP	
50	17.31		-1.290
Std Dev	17.08		-1.000

31	16.93	-0.797
61	16.67	-0.467
66	16.55	-0.311
9	16.49	-0.233
39	16.39	-0.104
14	16.32	-0.013
61	16.31	0.000
Median	16.31	0.000
14	16.30	0.013
63	16.26	0.065
102	16.16	0.191
Std Dev	15.54	1.000
43	14.81	1.945
40	14.75	2.029
43	14.69	2.100
44	14.69	2.107

101.99 Acid Soluble Calcium			
Lab	%CaO	Other	
38	23.74		-2.609
Std Dev	19.66		-1.000
24	17.13		0.000
Median	17.13		0.000
24	16.95		0.071

101.XX Acid Soluble Calcium			
Lab	%CaO	Total Method	
38	23.74		-14.672
50	17.31		-1.889
24	17.13		-1.531
24	16.95		-1.173
31	16.93		-1.133
Std Dev	16.86		-1.000
61	16.67		-0.626
66	16.55		-0.388
9	16.49		-0.268
39	16.39		-0.070
Median	16.36		0.000
14	16.32		0.070
61	16.31		0.089
14	16.30		0.109
63	16.26		0.189
102	16.16		0.382
Std Dev	15.85		1.000

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43	14.81	3.071
40	14.75	3.201
43	14.69	3.310
44	14.69	3.320

121.00 Acid Soluble Magnesium		
Lab	%MgO	Atomic Absorption
241	0.58	0.000
Median	0.58	0.000

121.30 Acid Soluble Magnesium		
Lab	%MgO	ICP
123	1.89	-48.381
44	0.48	-2.665
43	0.43	-1.249
43	0.43	-1.054
Std Dev	0.42	-1.000
24	0.40	-0.242
31	0.40	-0.242
24	0.40	-0.081
Median	0.39	0.000

131.00 Free Acid Acetone Method		
Lab		
24	0.33	-1.340
Std Dev	0.32	-1.000
Median	0.30	0.000
Std Dev	0.27	1.000
24	0.27	1.340

31	0.40	-0.197
24	0.40	-0.066
Median	0.39	0.000
9	0.39	0.066
50	0.39	0.095
66	0.38	0.290
39	0.38	0.434
61	0.38	0.461
61	0.37	0.592
102	0.36	0.916
Std Dev	0.35	1.000
28	0.29	2.831

144.01 Sulfate Sulfur (S) Gravimetric		
Lab		
241	2.63	-1.340
Std Dev	2.41	-1.000
Median	1.76	0.000
Std Dev	1.10	1.000
220	0.88	1.340

144.99 Sulfate Sulfur (S) Other		
Lab		
123	6.39	-2.680
Std Dev	2.92	-1.000
24	0.86	0.000
24	0.86	0.000
Median	0.86	0.000

144.XX Sulfate Sulfur (S) Total Method		
Lab		
123	6.39	-4.168
241	2.63	-1.325
Std Dev	2.20	-1.000
220	0.88	0.000
Median	0.88	0.000

24	0.86	0.015
24	0.86	0.015

151.30 Total Arsenic ICP		
Lab		
123	26.05	-0.787
43	23.50	-0.301
Median	21.93	0.000
43	20.35	0.301
Std Dev	16.69	1.000
24	7.42	2.769

151.XX Total Arsenic Total Method		
Lab		
123	26.05	-0.787
43	23.50	-0.301
Median	21.93	0.000
43	20.35	0.301
Std Dev	16.69	1.000
24	7.42	2.769

165.99 Acid Soluble Boron Other		
Lab	PPM	
102	30.36	-1.340
Std Dev	30.29	-1.000
Median	30.08	0.000
Std Dev	29.87	1.000
24	29.80	1.340

165.XX, ppm Acid Soluble Boron Total Method		
Lab	PPM	
102	30.36	-1.340
Std Dev	30.29	-1.000
Median	30.08	0.000
Std Dev	29.87	1.000
24	29.80	1.340

181.00 Total Cadmium Atomic Absorption		
Lab		
220	5.79	0.000
Median	5.79	0.000

181.30 Total Cadmium ICP		
Lab	PPM	

43	36.15	-0.503
43	34.70	-0.439
123	24.85	0.000
Median	24.85	0.000
9	4.62	0.901
102	3.54	0.949

181.99 Total Cadmium Other		
Lab		
24	4.23	0.000
Median	4.23	0.000

181.XX Total Cadmium Total Method		
Lab	PPM	
43	36.15	-1.605
43	34.70	-1.528
123	24.85	-1.008
Std Dev	24.71	-1.000
220	5.79	0.000
Median	5.79	0.000
9	4.62	0.062
24	4.23	0.082
102	3.54	0.119

190.00 Aluminum ICP		
Lab	%Al ₂ O ₃	
31	0.51	-1.784
24	0.51	-1.426
Std Dev	0.50	-1.000
24	0.50	-0.712
61	0.49	-0.354
Median	0.49	0.000
102	0.48	0.354
9	0.48	0.360
61	0.48	0.718
Std Dev	0.47	1.000
43	0.29	13.673

190.99 Aluminum Atomic Absorption		
Lab	%Al ₂ O ₃	
241	0.91	-2.257
Std Dev	0.63	-1.000
28	0.40	0.000
Median	0.40	0.000

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43	0.30	0.423
190.XX Aluminum Total Method		
Lab	%Al ₂ O ₃	Total Method
241	0.91	-9.217
Std Dev	0.53	-1.000
31	0.51	-0.641
24	0.51	-0.534
24	0.50	-0.320
61	0.49	-0.213
102	0.48	0.000
Median	0.48	0.000
9	0.48	0.002
61	0.48	0.109
Std Dev	0.43	1.000
28	0.40	1.717
43	0.30	3.769
43	0.29	3.995
191.30 Total Chromium ICP		
Lab	PPM	ICP
43	191.50	-1.307
43	187.00	-1.238
Std Dev	171.56	-1.000
123	106.60	0.000
Median	106.60	0.000
9	99.95	0.102
102	82.25	0.375
191.99 Total Chromium Other		
Lab	PPM	Other
24	94.85	0.000
Median	94.85	0.000
191.XX Total Chromium Total Method		
Lab	PPM	Total Method
43	191.50	-1.670
43	187.00	-1.585
Std Dev	156.09	-1.000
123	106.60	-0.063
Median	103.28	0.000
9	99.95	0.063
24	94.85	0.160
102	82.25	0.398

202.30 Acid Soluble Cobalt ICP		
Lab	PPM	ICP
9	5.45	-0.733
50	4.73	-0.376
102	3.96	0.000
Median	3.96	0.000
43	2.00	0.964
43	2.00	0.964

202.99 Acid Soluble Cobalt Other		
Lab	PPM	Other
24	4.65	0.000
Median	4.65	0.000

202.XX Acid Soluble Cobalt Total Method		
Lab	PPM	Total Method
9	5.45	-0.694
50	4.73	-0.256
24	4.65	-0.207
Median	4.30	0.000
102	3.96	0.207
Std Dev	2.65	1.000
43	2.00	1.393
43	2.00	1.393

221.30 Acid Soluble Copper ICP		
Lab	PPM	ICP
44	110.50	-13.642
123	20.30	-2.020
Std Dev	12.38	-1.000
43	6.50	-0.242
50	4.62	0.000
Median	4.62	0.000
9	3.00	0.209
43	3.00	0.209
102	2.35	0.292

221.99 Acid Soluble Copper Other		
Lab	PPM	Other
24	3.22	0.000
Median	3.22	0.000

221.XX Acid Soluble Copper Total Method		
Lab	PPM	Total Method
44	110.50	-20.550
123	20.30	-3.159
Std Dev	9.10	-1.000
43	6.50	-0.498
50	4.62	-0.135
Median	3.92	0.000
24	3.22	0.135
9	3.00	0.177
43	3.00	0.177
102	2.35	0.302

241.00 Acid Soluble Iron Atomic Absorption		
Lab	%Fe ₂ O ₃	Atomic Absorption
220	1.54	-1.340
Std Dev	1.53	-1.000
Median	1.49	0.000
Std Dev	1.44	1.000
241	1.43	1.340

241.30 Acid Soluble Iron ICP		
Lab	%Fe ₂ O ₃	ICP
38	1.60	-5.290
Std Dev	1.20	-1.000
31	1.16	-0.471
44	1.15	-0.363
9	1.14	-0.309
39	1.13	-0.146
24	1.12	-0.092
66	1.11	-0.016
Median	1.11	0.000
50	1.11	0.016
24	1.11	0.070
61	1.02	0.991
Std Dev	1.02	1.000
61	1.01	1.099
102	0.88	2.486
43	0.57	5.825
43	0.37	7.984

241.XX Acid Soluble Iron Total Method		
Lab	%Fe ₂ O ₃	Total Method
38	1.60	-4.984

220	1.54	-4.381
241	1.43	-3.231
Std Dev	1.21	-1.000
31	1.16	-0.397
44	1.15	-0.294
9	1.14	-0.242
39	1.13	-0.088
24	1.12	-0.036
Median	1.12	0.000
66	1.11	0.036
50	1.11	0.067
24	1.11	0.119
61	1.02	0.995
Std Dev	1.02	1.000
61	1.01	1.098
102	0.88	2.418
43	0.57	5.597
43	0.37	7.651

251.30 Total Lead ICP		
Lab	PPM	ICP
43	5.00	-0.536
43	4.00	0.000
Median	4.00	0.000
Std Dev	2.13	1.000
123	0.00	2.144

251.99 Total Lead Other		
Lab	PPM	Other
24	0.59	0.000
Median	0.59	0.000

251.XX Total Lead Total Method		
Lab	PPM	Total Method
43	5.00	-0.952
43	4.00	-0.600
Median	2.29	0.000
24	0.59	0.600
123	0.00	0.806

261.30 Acid Soluble Manganese ICP		
Lab	PPM	ICP
9	463.00	-0.306
50	438.00	-0.196

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39	419.00	-0.112
Median	393.56	0.000
102	368.11	0.112
Std Dev	166.90	1.000
43	50.00	1.516
43	46.50	1.531

261.99	Acid Soluble Manganese	
Lab	PPM	Other
44	512.50	-1.340
Std Dev	501.08	-1.000
Median	467.50	0.000
Std Dev	433.92	1.000
24	422.50	1.340

261.XX	Acid Soluble Manganese	
Lab	PPM	Total Method
44	512.50	-0.790
9	463.00	-0.364
50	438.00	-0.148
24	422.50	-0.015
Median	420.75	0.000
39	419.00	0.015
102	368.11	0.453
Std Dev	304.58	1.000
43	50.00	3.191
43	46.50	3.222

281.30	Total Mercury	
Lab	PPM	ICP
24	<0.07	0.000
Median	0.00	0.000

281.XX	Total Mercury	
Lab	PPM	Total Method
24	<0.07	0.000
Median	0.00	0.000

289.30	Total Molybdenum	
Lab	PPM	ICP
9	26.50	-0.870
50	24.43	-0.699
102	23.44	-0.618
Median	15.95	0.000

43	8.45	0.618
43	7.75	0.676
Std Dev	3.82	1.000
123	0.00	1.315

289.99	Total Molybdenum	
Lab	PPM	Other
24	25.55	0.000
Median	25.55	0.000

289.XX	Total Molybdenum	
Lab	PPM	Total Method
9	26.50	-0.243
24	25.55	-0.167
50	24.43	-0.078
102	23.44	0.000
Median	23.44	0.000
Std Dev	10.84	1.000
43	8.45	1.190
43	7.75	1.245
123	0.00	1.860

291.30	Total Nickel	
Lab		ICP
43	19.00	-0.874
43	17.50	-0.437
Median	16.00	0.000
9	14.50	0.437
Std Dev	12.57	1.000
102	9.60	1.864

291.99	Total Nickel	
Lab	PPM	Other
24	15.00	-1.340
Std Dev	14.80	-1.000
Median	14.20	0.000
Std Dev	13.60	1.000
123	13.40	1.340

291.XX	Total Nickel	
Lab	PPM	Total Method
43	19.00	-1.780
43	17.50	-1.152
Std Dev	17.14	-1.000

24	15.00	-0.105
Median	14.75	0.000
9	14.50	0.105
123	13.40	0.565
Std Dev	12.36	1.000
102	9.60	2.155

301.30	Total Selenium	
Lab	PPM	ICP
24	<0.50	0.000
123	0.00	0.000
Median	0.00	0.000

301.XX	Total Selenium	
Lab	PPM	Total Method
24	<0.50	0.000
123	0.00	0.000
Median	0.00	0.000

311.00	Sodium	
Lab	%Na ₂ O	Atomic Absorbtion
31	0.09	0.000
61	0.09	0.000
61	0.09	0.000
Median	0.09	0.000
Std Dev	0.09	1.000
241	0.08	5.360

311.99	Sodium	
Lab	%Na ₂ O	Other
43	0.84	-1.738
43	0.83	-1.721
Std Dev	0.52	-1.000
50	0.10	-0.018
Median	0.09	0.000
24	0.08	0.018
24	0.07	0.053
102	0.06	0.073

311.XX	Sodium	
Lab	%Na ₂ O	Total Method
43	0.84	-70.550
43	0.83	-69.851
Std Dev	0.10	-1.000

50	0.10	-0.561
31	0.09	0.000
61	0.09	0.000
61	0.09	0.000
Median	0.09	0.000
241	0.08	0.849
24	0.08	0.943
Std Dev	0.08	1.000
24	0.07	2.357
102	0.06	3.142

321.30	Acid Soluble Zinc	
Lab	PPM	ICP
123	5503.50	-25.696
Std Dev	482.32	-1.000
44	447.00	-0.826
43	289.50	-0.052
43	279.00	0.000
Median	279.00	0.000
50	103.15	0.865
9	88.45	0.937
102	80.65	0.976

321.99	Acid Soluble Zinc	
Lab		Other
24	104.50	0.000
Median	104.50	0.000

321.XX	Acid Soluble Zinc	
Lab	PPM	Total Method
123	5503.50	-31.028
44	447.00	-1.491
Std Dev	362.94	-1.000
43	289.50	-0.571
43	279.00	-0.510
Median	191.75	0.000
24	104.50	0.510
50	103.15	0.518
9	88.45	0.603
102	80.65	0.649

325.10	Fluoride	
Lab	%	Electrode
28	1.95	-6.559

Feed Phosphate

28	1.54	-5.052
Std Dev	0.45	-1.000
220	0.20	-0.074
24	0.18	0.000
31	0.18	0.000
Median	0.18	0.000
102	0.18	0.016
24	0.17	0.037
14	0.17	0.039

325.99		Fluoride
Lab	%	Other
61	0.21	-1.178
Std Dev	0.21	-1.000
61	0.19	0.000
Median	0.19	0.000
Std Dev	0.17	1.000
14	0.16	1.502

325.XX		Fluoride
Lab	%	Total Method
28	1.95	-73.622
28	1.54	-56.708
61	0.21	-1.251
Std Dev	0.20	-1.000
220	0.20	-0.834
61	0.19	-0.417
24	0.18	0.000
31	0.18	0.000
Median	0.18	0.000
102	0.18	0.177
24	0.17	0.417
14	0.17	0.438
14	0.16	0.647