

Feed Phosphate

001.10 Ammoniacal Nitrogen		
Lab	MgO distillation	
49	17.19	0.000
Median	17.19	0.000

001.XX Ammoniacal Nitrogen		
Lab	Total Method	
49	17.19	0.000
Median	17.19	0.000

010.60 Total Nitrogen		
Lab	Combustion	
80	0.16	-1.340
Std Dev	0.14	-1.000
Median	0.08	0.000
Std Dev	0.02	1.000
123	0.00	1.340

010.XX Total Nitrogen		
Lab	Total Method	
80	0.16	-1.340
Std Dev	0.14	-1.000
Median	0.08	0.000
Std Dev	0.02	1.000
123	0.00	1.340

020.10 Total Phosphate		
Lab	Gravimetric Quimociac	
104	18.68	-1.340
Std Dev	18.61	-1.000
Median	18.41	0.000
Std Dev	18.21	1.000
77	18.14	1.340

020.20 Total Phosphate		
Lab	Spectrometric	
38	23.03	-26.969
270	19.20	-3.373
102	19.04	-2.387
Std Dev	18.81	-1.000
34	18.69	-0.262
24	18.66	-0.077
95	18.66	-0.046
Median	18.65	0.000

24	18.64	0.046
123	18.64	0.046
39	18.57	0.508
61	18.54	0.662
Std Dev	18.49	1.000
61	18.43	1.340
110	17.95	4.273

020.30 Total Phosphate		
Lab	Alka. Quimociac	
40	18.84	0.000
Median	18.84	0.000

020.40 Total Phosphate		
Lab	Automated	
96	19.57	-2.586
66	19.15	-1.582
Std Dev	18.90	-1.000
31	18.64	-0.390
9	18.48	0.000
Median	18.48	0.000
79	18.41	0.165
63	18.25	0.543
63	18.11	0.874

020.99 Total Phosphate		
Lab	Other	
14	18.78	-0.058
14	18.69	-0.012
Median	18.66	0.000
39	18.64	0.012
Std Dev	16.72	1.000
80	8.48	5.233

020.XX Total Phosphate		
Lab	Total Method	
38	23.03	-18.803
96	19.57	-3.988
270	19.20	-2.380
66	19.15	-2.165
102	19.04	-1.694
Std Dev	18.87	-1.000
40	18.84	-0.858
14	18.78	-0.579

34	18.69	-0.214
14	18.69	-0.193
104	18.68	-0.150
24	18.66	-0.086
95	18.66	-0.064
24	18.64	0.000
31	18.64	0.000
39	18.64	0.000
123	18.64	0.000
Median	18.64	0.000
39	18.57	0.322
61	18.54	0.429
9	18.48	0.708
61	18.43	0.900
Std Dev	18.41	1.000
79	18.41	1.008
63	18.25	1.694
77	18.14	2.144
63	18.11	2.294
110	17.95	2.942
80	8.48	43.566

030.30 Insoluble Phosphate		
Lab	Alka. Quimociac	
24	9.31	-1.340
Std Dev	9.29	-1.000
Median	9.25	0.000
Std Dev	9.20	1.000
24	9.19	1.340

030.XX Insoluble Phosphate		
Lab	Total Method	
24	9.31	-1.340
Std Dev	9.29	-1.000
Median	9.25	0.000
Std Dev	9.20	1.000
24	9.19	1.340

040.20 Indirect Available Phosphate		
Lab	Spectrometric	
24	9.46	-1.340
Std Dev	9.44	-1.000
Median	9.40	0.000
Std Dev	9.36	1.000

040.XX Indirect Available Phosphate		
Lab	Total Method	
24	9.46	-1.340
Std Dev	9.44	-1.000
Median	9.40	0.000
Std Dev	9.36	1.000
24	9.35	1.340

041.10 Direct Available Phosphate		
Lab	Gravimetric Quimociac	
44	32.18	-2.665
Std Dev	25.18	-1.000
65	20.97	0.000
Median	20.97	0.000
49	20.91	0.015

041.40 Direct Available Phosphate		
Lab	Automated	
38	43.72	-1.340
Std Dev	40.78	-1.000
Median	32.14	0.000
Std Dev	23.49	1.000
49	20.56	1.340

041.50 Direct Available Phosphate		
Lab	ICP	
80	19.42	0.000
Median	19.42	0.000

041.60 Direct Available Phosphate		
Lab	EDTA Extract	
65	33.08	0.000
Median	33.08	0.000

041.XX Direct Available Phosphate		
Lab	Total Method	
38	43.72	-2.561
65	33.08	-1.364
44	32.18	-1.262
Std Dev	29.85	-1.000
65	20.97	0.000
Median	20.97	0.000

Feed Phosphate

49	20.91	0.007
49	20.56	0.047
80	19.42	0.175

048.20 Water Soluble Phosphate		
Lab	Spectrometric	
24	0.27	-1.340
Std Dev	0.25	-1.000
Median	0.20	0.000
Std Dev	0.15	1.000
24	0.13	1.340

048.99 Water Soluble Phosphate		
Lab	Other	
123	0.40	0.000
Median	0.40	0.000

048.XX Water Soluble Phosphate		
Lab	Total Method	
123	0.40	-1.315
Std Dev	0.36	-1.000
Median	0.27	0.000
Std Dev	0.17	1.000
24	0.13	1.365

050.51 %K ₂ O Soluble Potash		
Lab	ICP(Citrate)	
79	0.10	0.000
Median	0.10	0.000

050.99 Soluble Potash		
Lab	%K ₂ O	Other
102	0.08	0.000
Median	0.08	0.000

050.XX Soluble Potash		
Lab	%K ₂ O	Total Method
79	0.10	0.000
Median	0.00	0.000
102	0.08	0.000

060.00 Free Water		
Lab	Vacuum Oven	

14	0.07	-1.340
Std Dev	0.07	-1.000
Median	0.07	0.000
Std Dev	0.07	1.000
14	0.07	1.340

060.99 Free Water		
Lab	Other	
24	0.16	0.000
24	0.16	0.000
Median	0.16	0.000

060.XX Free Water		
Lab	Total Method	
24	0.16	-0.661
24	0.16	-0.661
Median	0.12	0.000
14	0.07	0.661
14	0.07	0.734

101.00 Acid Soluble Calcium		
Lab	%CaO	Atomic Absorption
270	31.82	-1.340
Std Dev	31.52	-1.000
Median	30.63	0.000
Std Dev	29.74	1.000
49	29.44	1.340

101.30 Acid Soluble Calcium		
Lab	%CaO	ICP
31	30.85	-0.938
102	30.85	-0.938
14	30.63	-0.507
14	30.61	-0.479
61	30.52	-0.306
34	30.36	0.000
Median	30.36	0.000
61	30.30	0.115
9	30.14	0.431
Std Dev	29.84	1.000
66	29.70	1.263
39	29.68	1.311
79	29.63	1.407

101.99 Acid Soluble Calcium		
Lab	%CaO	Other
24	30.56	-1.340
Std Dev	30.51	-1.000
Median	30.37	0.000
Std Dev	30.23	1.000
24	30.18	1.340

101.XX Acid Soluble Calcium		
Lab	%CaO	Total Method
270	31.82	-2.795
Std Dev	30.88	-1.000
31	30.85	-0.938
102	30.85	-0.938
14	30.63	-0.507
14	30.61	-0.479
24	30.56	-0.373
61	30.52	-0.306
34	30.36	0.000
Median	30.36	0.000
61	30.30	0.115
24	30.18	0.345
9	30.14	0.431
Std Dev	29.84	1.000
66	29.70	1.263
39	29.68	1.311
79	29.63	1.407
49	29.44	1.771

121.30 Acid Soluble Magnesium		
Lab	%MgO	ICP
79	0.69	-9.841
39	0.54	-1.362
Std Dev	0.53	-1.000
24	0.53	-0.945
102	0.53	-0.895
14	0.52	-0.389
14	0.52	-0.389
9	0.51	0.000
Median	0.51	0.000
61	0.51	0.167
61	0.51	0.167
24	0.51	0.445
31	0.50	0.723

Std Dev	0.50	1.000
66	0.49	1.084
34	0.49	1.279

121.XX Acid Soluble Magnesium		
Lab	%MgO	Total Method
79	0.69	-9.841
39	0.54	-1.362
Std Dev	0.53	-1.000
24	0.53	-0.945
102	0.53	-0.895
14	0.52	-0.389
14	0.52	-0.389
9	0.51	0.000
Median	0.51	0.000
61	0.51	0.167
61	0.51	0.167
24	0.51	0.445
31	0.50	0.723
Std Dev	0.50	1.000
66	0.49	1.084
34	0.49	1.279

144.99 Sulfate Sulfur (S)		
Lab	Other	
24	0.05	-0.308
24	0.04	0.000
Median	0.04	0.000
Std Dev	0.02	1.000
102	0.00	2.372

144.XX Sulfate Sulfur (S)		
Lab	Total Method	
24	0.05	-0.308
24	0.04	0.000
Median	0.04	0.000
Std Dev	0.02	1.000
102	0.00	2.372

151.30 Total Arsenic		
Lab	ICP	
270	2.00	0.000
Median	2.00	0.000

Feed Phosphate

151.99 Total Arsenic		
Lab	Other	
9	1.00	-1.340
Std Dev	0.92	-1.000
Median	0.67	0.000
Std Dev	0.42	1.000
24	0.34	1.340

151.XX Total Arsenic		
Lab	Total Method	
270	2.00	-1.614
Std Dev	1.62	-1.000
9	1.00	0.000
Median	1.00	0.000
Std Dev	0.38	1.000
24	0.34	1.066

165.99 Acid Soluble Boron		
Lab	PPM	Other
24	11.70	-2.110
Std Dev	9.75	-1.000
102	8.00	0.000
Median	8.00	0.000
79	7.00	0.570

65.XX, ppm Acid Soluble Boron		
Lab	PPM	Total Method
24	11.70	-2.110
Std Dev	9.75	-1.000
102	8.00	0.000
Median	8.00	0.000
79	7.00	0.570

181.30 Total Cadmium		
Lab	PPM	ICP
9	6.50	-1.489
Std Dev	6.42	-1.000
102	6.25	0.000
Median	6.25	0.000
Std Dev	6.08	1.000
270	6.05	1.191

181.99 Total Cadmium		
Lab	Other	
14	0.22	0.054

24	7.48	0.000
Median	7.48	0.000

181.XX Total Cadmium		
Lab	PPM	Total Method
24	7.48	-2.711
Std Dev	6.78	-1.000
9	6.50	-0.308
Median	6.38	0.000
102	6.25	0.308
270	6.05	0.801

190.00 Aluminum		
Lab	%Al ₂ O ₃	ICP
24	0.29	-1.340
24	0.28	-1.237
31	0.28	-1.237
79	0.27	-1.031
Std Dev	0.27	-1.000
34	0.23	-0.206
14	0.22	0.000
Median	0.22	0.000
14	0.22	0.103
61	0.21	0.206
61	0.21	0.206
9	0.20	0.402
102	0.18	0.796

190.99 Aluminum		
Lab	%Al ₂ O ₃	Atomic Absorption
270	0.21	0.000
Median	0.21	0.000

190.XX Aluminum		
Lab	%Al ₂ O ₃	Total Method
24	0.29	-1.447
24	0.28	-1.340
31	0.28	-1.340
79	0.27	-1.126
Std Dev	0.26	-1.000
34	0.23	-0.268
14	0.22	-0.054
Median	0.22	0.000
14	0.22	0.054

61	0.21	0.161
61	0.21	0.161
270	0.21	0.161
9	0.20	0.364
102	0.18	0.774

191.30 Total Chromium		
Lab	ICP	
270	162.00	-1.745
Std Dev	149.40	-1.000
9	132.50	0.000
Median	132.50	0.000
102	116.70	0.935

191.99 Total Chromium		
Lab	PPM	Other
24	147.50	0.000
Median	147.50	0.000

191.XX Total Chromium		
Lab	PPM	Total Method
270	162.00	-1.306
Std Dev	156.85	-1.000
24	147.50	-0.445
Median	140.00	0.000
9	132.50	0.445
Std Dev	123.15	1.000
102	116.70	1.383

202.30 Acid Soluble Cobalt		
Lab	PPM	ICP
270	3.90	-2.365
Std Dev	2.60	-1.000
9	1.65	0.000
Median	1.65	0.000
102	1.35	0.315

202.99 Acid Soluble Cobalt		
Lab	Other	
24	1.87	0.000
Median	1.87	0.000

202.XX Acid Soluble Cobalt		
Lab	PPM	Total Method
14	0.22	0.054

270	3.90	-3.573
Std Dev	2.36	-1.000
24	1.87	-0.184
Median	1.76	0.000
9	1.65	0.184
102	1.35	0.685

221.30 Acid Soluble Copper		
Lab	PPM	ICP
9	13.50	-2.468
Std Dev	11.42	-1.000
270	10.00	0.000
Median	10.00	0.000
102	9.70	0.212

221.99 Acid Soluble Copper		
Lab	Other	
24	10.90	0.000
Median	10.90	0.000

221.XX Acid Soluble Copper		
Lab	PPM	Total Method
9	13.50	-2.515
Std Dev	11.66	-1.000
24	10.90	-0.371
Median	10.45	0.000
270	10.00	0.371
102	9.70	0.618

241.00 Acid Soluble Iron		
Lab	%Fe ₂ O ₃	Atomic Absorption
49	0.49	0.000
Median	0.49	0.000

241.30 Acid Soluble Iron		
Lab	%Fe ₂ O ₃	ICP
270	0.63	-3.153
24	0.55	-1.182
Std Dev	0.54	-1.000
79	0.53	-0.525
31	0.52	-0.263
9	0.51	-0.131
24	0.51	-0.131
14	0.51	0.000

Feed Phosphate

14	0.51	0.000
Median	0.51	0.000
66	0.49	0.302
39	0.47	0.893
Std Dev	0.47	1.000
34	0.46	1.182
61	0.43	1.971
61	0.43	1.971
102	0.42	2.222

241.XX		Acid Soluble Iron
Lab	%Fe ₂ O ₃	Total Method
270	0.63	-3.421
24	0.55	-1.283
Std Dev	0.54	-1.000
79	0.53	-0.570
31	0.52	-0.285
9	0.51	-0.143
24	0.51	-0.143
14	0.51	0.000
14	0.51	0.000
Median	0.51	0.000
66	0.49	0.328
49	0.49	0.342
39	0.47	0.969
Std Dev	0.47	1.000
34	0.46	1.283
61	0.43	2.138
61	0.43	2.138
102	0.42	2.411

251.30		Total Lead
Lab	PPM	ICP
270	2.00	0.000
Median	2.00	0.000

251.99		Total Lead
Lab		Other
24	2.25	0.000
Median	2.25	0.000

251.XX		Total Lead
Lab	PPM	Total Method
24	2.25	-1.340

Std Dev	2.21	-1.000
Median	2.12	0.000
Std Dev	2.03	1.000
270	2.00	1.340

261.30		Acid Soluble Manganese
Lab		ICP
9	35.00	-1.340
Std Dev	34.54	-1.000
Median	33.20	0.000
Std Dev	31.86	1.000
102	31.40	1.340

261.99		Acid Soluble Manganese
Lab	PPM	Other
24	39.85	0.000
Median	39.85	0.000

261.XX		Acid Soluble Manganese
Lab	PPM	Total Method
24	39.85	-1.538
Std Dev	38.15	-1.000
9	35.00	0.000
Median	35.00	0.000
Std Dev	31.85	1.000
102	31.40	1.142

281.30		Total Mercury
Lab	PPM	ICP
24	<0.12	0.000
Median	0.00	0.000

281.XX		Total Mercury
Lab	PPM	Total Method
24	<0.12	0.000
Median	0.00	0.000

289.30		Total Molybdenum
Lab	PPM	ICP
270	8.00	-2.552
Std Dev	6.18	-1.000
9	5.00	0.000
Median	5.00	0.000
102	4.85	0.128

289.99		Total Molybdenum
Lab	PPM	Other
24	5.59	0.000
Median	5.59	0.000

289.XX		Total Molybdenum
Lab	PPM	Total Method
270	8.00	-2.947
Std Dev	6.21	-1.000
24	5.59	-0.321
Median	5.30	0.000
9	5.00	0.321
102	4.85	0.485

291.30		Total Nickel
Lab		ICP
270	20.00	-0.487
9	19.50	0.000
Median	19.50	0.000
Std Dev	18.47	1.000
102	17.25	2.193

291.99		Total Nickel
Lab	PPM	Other
24	22.40	0.000
Median	22.40	0.000

291.XX		Total Nickel
Lab	PPM	Total Method
24	22.40	-2.136
Std Dev	20.99	-1.000
270	20.00	-0.202
Median	19.75	0.000
9	19.50	0.202
Std Dev	18.51	1.000
102	17.25	2.015

301.30		Total Selenium
Lab	PPM	ICP
270	1.00	-1.340
Std Dev	0.96	-1.000
Median	0.85	0.000
Std Dev	0.74	1.000

24	0.70	1.340
----	------	-------

301.XX		Total Selenium
Lab	PPM	Total Method
270	1.00	-1.340
Std Dev	0.96	-1.000
Median	0.85	0.000
Std Dev	0.74	1.000
24	0.70	1.340

311.00		Sodium
Lab	%Na ₂ O	Atomic Absorbtion
61	6.22	-2.097
Std Dev	6.17	-1.000
61	6.13	0.000
Median	6.13	0.000
31	6.11	0.583

311.99		Sodium
Lab	%Na ₂ O	Other
14	6.17	-1.616
Std Dev	6.09	-1.000
14	6.07	-0.853
24	5.97	-0.163
Median	5.95	0.000
24	5.93	0.163
102	5.83	0.824
Std Dev	5.81	1.000
79	3.26	19.519

311.XX		Sodium
Lab	%Na ₂ O	Total Method
61	6.22	-1.013
Std Dev	6.22	-1.000
14	6.17	-0.686
61	6.13	-0.425
31	6.11	-0.261
14	6.07	0.000
Median	6.07	0.000
24	5.97	0.621
24	5.93	0.915
Std Dev	5.91	1.000
102	5.83	1.510
79	3.26	18.335

Feed Phosphate

321.30		
Lab	PPM	Acid Soluble Zinc ICP
9	369.50	-0.411
270	347.00	-0.133
Median	336.20	0.000
102	325.40	0.133
Std Dev	255.24	1.000
39	0.35	4.148

321.99		
Lab		Acid Soluble Zinc Other
24	376.00	0.000
Median	376.00	0.000

321.XX		
Lab	PPM	Acid Soluble Zinc Total Method
24	376.00	-0.881
9	369.50	-0.684
270	347.00	0.000
Median	347.00	0.000
102	325.40	0.656
Std Dev	314.09	1.000
39	0.35	10.533

325.10		
Lab	%	Fluoride Electrode
270	0.30	-7.657
61	0.16	-2.297
61	0.15	-1.914
Std Dev	0.13	-1.000
9	0.11	-0.383
24	0.10	0.000
34	0.10	0.000
102	0.10	0.000
Median	0.10	0.000
24	0.10	0.191
31	0.10	0.191
Std Dev	0.07	1.000
14	0.06	1.512
14	0.06	1.512

325.XX		
Lab	%	Fluoride Total Method

270	0.30	-7.657
61	0.16	-2.297
61	0.15	-1.914
Std Dev	0.13	-1.000
9	0.11	-0.383
24	0.10	0.000
34	0.10	0.000
102	0.10	0.000
Median	0.10	0.000
24	0.10	0.191
31	0.10	0.191
Std Dev	0.07	1.000
14	0.06	1.512
14	0.06	1.512