

WP		Nutrients		Summary - All Studies															
Lab Group	Study Type	Study Open Date Minimum	Study Open Date Maximum	Class Name	Number of Analytes	Number of individual Labs	Average Number PT per Year	Total Number Data Points	Total Number Not Acceptable	Failure Rate	Average Absolute z score	Average Recovery	Average Recovery Standard Deviation	Z _{CALC} Failure Rate	Significance of difference H0:p1=p2 Failure Rate	H0: p1=p2 (< 5% Significant) Failure Rate	F _{CALC} Average Recovery Variance	Critical F at p=0.05 for Average Recovery Variance / probability H0:V1=V2	F Test Average Recovery Variance (F _{CALC} < Critical F)
1PT	WP	5/9/2005	4/14/2008	Nutrients	6	36	1.06	446	33	7.40%	1.1084	100.6%	22.6%	0.936	0.175	Same	2.181	1.159	Significantly Different
2PT	WP	5/9/2005	4/14/2008	Nutrients	6	17	2.20	557	33	5.92%	0.9868	99.3%	15.3%					0.0000	prob H0: V1=V2
Studies by Accreditation Period (12 months)																			
1PT	WP	6/18/2007	4/14/2008	Nutrients	6	34	NA	191	20	10.47%	1.1762	100.5%	26.0%	1.494	0.068	Same	2.340	1.259	Significantly Different
2PT	WP	6/18/2007	4/14/2008	Nutrients	6	17	NA	219	14	6.39%	0.9665	97.7%	17.0%					0.0000	prob H0: V1=V2
1PT	WP	6/12/2006	4/16/2007	Nutrients	6	35	NA	183	10	5.46%	0.9750	102.4%	20.3%	0.085	0.466	Same	2.186	1.265	Significantly Different
2PT	WP	6/12/2006	4/16/2007	Nutrients	6	16	NA	212	12	5.66%	0.9693	100.8%	13.8%					0.0000	prob H0: V1=V2
1PT	WP	5/9/2005	12/5/2005	Nutrients	6	19	NA	72	3	4.17%	1.2675	96.3%	17.6%	0.429	0.334	Same	1.460	1.402	Same
2PT	WP	5/9/2005	4/17/2006	Nutrients	6	12	NA	126	7	5.56%	1.0514	99.6%	14.5%					0.0327	prob H0: V1=V2

WP Analyte Summary						
Lab Group	Number of Analytes	Failure Rate Number of analytes Significantly Different High	Failure Rate Percentage of Analytes Significantly Different High	Number of Analytes	Average Recovery Variance Number of analytes Significantly Different High	Average Recovery Variance Percentage Significantly Different High
1PT	6	1	16.7%	6	5	83.3%
2PT	6	0	0.0%	6	1	16.7%
Same	6	5	83.3%	6	0	0.0%

Lab Group	Study Type	Study Open Date Minimum	Study Open Date Maximum	Analyte Name	NELAC Analyte Number	Number of individual Labs	Average Number PT per Year	Total Number Data Points	Total Number Not Acceptable	Failure Rate	Average Absolute z score	Average Recovery	Average Recovery Standard Deviation	Z _{CALC} Failure Rate	Significance of difference H0:p1=p2 Failure Rate	H0: p1=p2 (< 5% Significant) Failure Rate	F _{CALC} Average Recovery Variance	Critical F at p=0.05 for Average Recovery Variance / probability H0:V1=V2	F Test Average Recovery Variance (F _{CALC} < Critical F)
1PT	WP	5/9/2005	12/10/2007	Ammonia as N	1515	30	1.20	93	4	4.30%	0.8951	97.0%	16.6%	0.582	0.280	Same	1.558	1.405	Significantly Different
2PT	WP	6/6/2005	4/14/2008	Ammonia as N	1515	15	2.26	97	6	6.19%	1.0757	97.4%	13.3%					0.0161	prob H0: V1=V2
1PT	WP	5/9/2005	12/10/2007	Total Kjeldahl Nitrogen	1795	21	1.14	62	2	3.23%	0.9972	100.3%	28.1%	0.241	0.405	Same	2.974	1.493	Significantly Different
2PT	WP	6/6/2005	4/14/2008	Total Kjeldahl Nitrogen	1795	13	2.02	75	3	4.00%	0.8615	98.7%	16.3%					0.0000	prob H0: V1=V2
1PT	WP	5/9/2005	4/14/2008	Nitrate as N	1810	30	1.03	91	7	7.69%	1.0700	106.3%	24.7%	1.210	0.113	Same	4.018	1.394	Significantly Different
2PT	WP	5/9/2005	4/14/2008	Nitrate as N	1810	16	2.28	107	4	3.74%	0.9215	97.0%	12.3%					0.0000	prob H0: V1=V2
1PT	WP	6/6/2005	4/14/2008	Nitrate + Nitrite as N	1820	19	0.87	47	5	10.64%	1.3424	107.5%	29.1%	1.639	0.051	Same	5.706	1.514	Significantly Different
2PT	WP	6/6/2005	4/14/2008	Nitrate + Nitrite as N	1820	15	1.98	85	3	3.53%	0.9206	97.0%	12.2%					0.0000	prob H0: V1=V2
1PT	WP	5/9/2005	12/10/2007	ortho-Phosphate as P	1870	28	1.10	80	4	5.00%	0.9563	98.6%	10.8%	1.279	0.100	Same	0.369	1.406	Significantly Different
2PT	WP	6/6/2005	4/14/2008	ortho-Phosphate as P	1870	16	2.38	109	11	10.09%	1.1664	105.7%	17.8%					1.0000	prob H0: V1=V2
1PT	WP	5/9/2005	4/14/2008	Total phosphorus as P	1910	26	0.96	73	11	15.07%	1.5382	96.2%	24.5%	1.694	0.045	Significantly Different	1.820	1.430	Significantly Different
2PT	WP	6/6/2005	4/14/2008	Total phosphorus as P	1910	16	2.17	99	7	7.07%	0.9416	98.2%	18.1%					0.0029	prob H0: V1=V2
Data Not used in Comparison																			
1PT	WP	7/5/2005	10/12/2007	Nitrite as N	1840	5	0.62	7	0	0.00%	0.7827	103.2%	4.8%	0.871	0.192	Same	0.276	2.231	Same
2PT	WP	7/5/2005	4/14/2008	Nitrite as N	1840	11	2.32	71	7	9.86%	1.2860	96.7%	9.2%					0.9464	prob H0: V1=V2

WS Analyte Summary						
Lab Group	Number of Analytes	Failure Rate Number of analytes Significantly Different High	Failure Rate Percentage of Analytes Significantly Different High	Number of Analytes	Average Recovery Variance Number of analytes Significantly Different High	Average Recovery Variance Percentage Significantly Different High
1PT	4	0	0.0%	4	3	75.0%
2PT	4	0	0.0%	4	0	0.0%
Same	4	4	100.0%	4	1	25.0%

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1PT	WS	7/11/2005	1/7/2008	Nitrate as N	1810	32	1.35	108	12	11.11%	0.8230	98.4%	8.8%	0.964	0.167	Same	1.978	1.439	Significantly Different
2PT	WS	7/11/2005	4/7/2008	Nitrate as N	1810	12	2.22	73	5	6.85%	0.6134	98.4%	6.2%					0.0012	prob H0: V1=V2
1PT	WS	7/11/2005	1/7/2008	Nitrate + Nitrite as N	1820	17	1.01	43	4	9.30%	1.0576	97.6%	6.0%	0.787	0.216	Same	0.685	1.685	Same
2PT	WS	8/15/2005	4/7/2008	Nitrate + Nitrite as N	1820	9	1.72	41	2	4.88%	1.0803	99.8%	7.2%					0.8857	prob H0: V1=V2
1PT	WS	7/11/2005	1/7/2008	Nitrite as N	1840	29	1.33	96	5	5.21%	0.6579	101.7%	16.4%	0.582	0.280	Same	4.282	1.428	Significantly Different
2PT	WS	7/11/2005	4/7/2008	Nitrite as N	1840	11	2.72	82	6	7.32%	0.4810	98.3%	7.9%					0.0000	prob H0: V1=V2
1PT	WS	5/16/2005	1/7/2008	ortho-Phosphate as P	1870	25	1.38	91	10	10.99%	0.8119	97.7%	13.2%	0.980	0.164	Same	1.705	1.539	Significantly Different
2PT	WS	7/11/2005	4/7/2008	ortho-Phosphate as P	1870	9	2.03	50	3	6.00%	0.6894	101.3%	10.1%					0.0212	prob H0: V1=V2