١	۷P	Anions		Summary - A	All Studies															
L	.ab	Study	Study Open	Study Open		Number of	Number of	Average	Total	Total	Failure	Average	Average	Average	Z _{CALC}	Significance	H0: p1=p2	F _{CALC}	Critial F at	F Test Average
	roup	Type	Date	Date Maximum		Analytes	individual	Number	Number	Number Not	Rate	Absolute	Recovery	Recovery	Failure	of difference	(< 5% Significant)	Average	p=0.05 for	Recovery Variance
			Minimum				Labs	PT per	Data	Acceptable		z score		Standard	Rate	H0:p1=p2	Failure Rate	Recovery	Average	(F _{CALC} < Critical F)
								Year	Points					Deviation		Failure Rate		Variance	Recovery	
																			Variance /	
																			probability	
																			H0:V1=V2	
_	PT	WP	5/9/2005	4/14/2008	Anions	4	35	1.13	306	30	9.80%	1.2278	100.3%	21.7%	3.883	0.000	Significantly Different	1.261	1.184	Significantly Different
2	PT_	WP	5/9/2005	4/14/2008	Anions	4	17	2.62	474	15	3.16%	0.8930	97.5%	19.3%					0.0122	prob H0: V1=V2
9	Studi	es by Acc	creditation	Period (12 mo	onths)															
				,																
1	PT	WP	6/18/2007	4/14/2008	Anions	4	33	NA	122	11	9.02%	1.1800	100.5%	20.2%	2.424	0.008	Significantly Different	1.299	1.309	Same
2	PT.	WP	6/18/2007	4/14/2008	Anions	4	16	NA	184	5	2.72%	0.8866	96.5%	17.7%					0.0548	prob H0: V1=V2
1	PT	WP	6/12/2006	4/16/2007	Anions	4	33	NA	125	12	9.60%	1.2499	99.6%	22.4%	2.477	0.007	Significantly Different	2.060	1.311	Significantly Different
2	PT.	WP	6/12/2006	4/16/2007	Anions	4	17	NA	174	5	2.87%	0.9148	97.2%	15.6%					0.0000	prob H0: V1=V2
1	PT	WP	5/9/2005	4/17/2006	Anions	4	17	NA	59	7	11.86%	1.2800	101.5%	23.5%	1.869	0.031	Significantly Different	0.830	1.439	Same
2	PT	WP	5/9/2005	4/17/2006	Anions	4	13	NA	116	5	4.31%	0.8703	99.8%	25.7%					0.7822	prob H0: V1=V2
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WP A	nalyte Sı	ummary			
Lab	Number	Failure Rate	Failure Rate	Average Recovery Variance	Average
Group	of	Number of	Percentage of	Number of analytes Significantly	Recovery
	Analytes	analytes	Analytes	Different High	Variance
		Significantly	Significantly		Percentage
		Different High	Different High		Significantly
					Different High
1PT	4	2	50.0%	2	50.0%
2PT	4	0	0.0%	1	25.0%
Same	4	2	50.0%	1	25.0%

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	Critial F at p=0.05 for Average Recovery	F Test Average Recovery Variance (F _{CALC} < Critical F)
																	Variance	Variance / probability H0:V1=V2	
1PT	WP	5/9/2005	4/14/2008	Chloride	1575	34	1.15	115	9	7.83%	1.0210	100.6%	11.6%	2.540	0.006	Significantly Different	1.332	1.338	Same
2PT	WP	5/9/2005	4/14/2008	Chloride	1575	16	3.05	143	2	1.40%	0.7208	100.3%	10.1%					0.0526	prob H0: V1=V2
		- /2 /2 2 2 -	10/10/000													_			01 10 11 510
1PT	WP	5/9/2005	12/10/2007	Fluoride	1730	22	1.05	60	4	6.67%	1.1053	95.6%	9.4%	0.618	0.268	Same	1.699	1.440	Significantly Different
2PT	WP	5/9/2005	4/14/2008	Fluoride	1730	16	2.39	112	5	4.46%	1.0760	95.3%	7.2%					0.0084	prob H0: V1=V2
1PT	WP	5/9/2005	4/14/2008	Sulfate	2000	30	1.17	103	17	16.50%	1.5559	101.2%	32.3%	4.129	0.000	Significantly Different	19.519	1.376	Significantly Different
2PT	WP	6/6/2005	4/14/2008	Sulfate	2000	15	2.61	112	1	0.89%	0.8547	94.9%	7.3%					0.0000	prob H0: V1=V2
1PT	WP	7/5/2005	4/14/2008	Sulfide	2005	9	1.12	28	0	0.00%	1.1328	106.3%	22.5%	1.390	0.082	Same	0.364	1.591	Significantly Different
2PT	WP	7/5/2005	4/14/2008	Sulfide	2005	14	2.75	107	7	6.54%	0.9715	99.1%	37.3%					0.9982	prob H0: V1=V2
Data	Not used	in Compari	ison																
		•																	
1PT	WP	10/7/2005	4/14/2008	Bromide	1540	4	1.39	14	3	21.43%	1.7685	104.2%	15.7%	0.919	0.179	Same	2.333	1.874	Significantly Different
2PT	WP	7/5/2005	4/14/2008	Bromide	1540	11	2.16	66	8	12.12%	1.4573	98.0%	10.3%					0.0129	prob H0: V1=V2
																			<u>'</u>
			1						1				1	l			1		

ws	Anions	,	Summary - A	All Studies		T							'	1					
Lab Group	Study Type	Study Open Date Minimum	n Study Open Date Maximum		nalytes inc	Number of individual Labs		Number	Acceptable			Recovery		Failure Rate	Significance of difference H0:p1=p2 Failure Rate		F _{CALC} Average Recovery Variance	Critial F at p=0.05 for Average Recovery Variance / probability H0:V1=V2	F Test Average Recovery Variance (F _{CALC} < Critical F)
1PT	WS	5/16/2005	1/7/2008	Anions	3	33	1.50	323	29	8.98%	0.8691	99.8%	12.5%	1.237	0.108	Same	3.022	1.244	Significantly Different
2PT	WS	6/13/2005			3	11	2.31	186	11	5.91%		98.9%	7.2%	+				0.0000	prob H0: V1=V2
Studi	es by Ac	creditation	n Period (12 m	ionths)					+				+						
1PT	WS	7/9/2007	1/7/2008	Anions	3	30	NA	108	13	12.04%	0.9860	101.4%	14.1%	1.976	0.024	Significantly Different	7.735	1.469	Significantly Different
2PT	WS	7/9/2007	4/7/2008	Anions	3	9	NA	63	2	3.17%	0.7501	98.3%	5.1%			-		0.0000	prob H0: V1=V2
1PT	WS	7/10/2006	1/8/2007	Anions	3	30	NA	106	8	7.55%	0.8781	99.4%	9.8%	0.063	0.475	Same	1.857	1.467	Significantly Different
2PT	WS	7/10/2006	4/9/2007	Anions	3	10	NA	64	5	7.81%	0.7378	99.2%	7.2%					0.0042	prob H0: V1=V2
1PT	WS	5/16/2005			3	31	NA	109	8	7.34%	0.7446	98.7%	13.1%	0.134	0.447	Same	2.132	1.483	Significantly Different
2PT	WS	6/13/2005	1/9/2006	Anions	3	11	NA	59	4	6.78%	0.6419	99.3%	9.0%	<u> </u>	-		-	0.0010	prob H0: V1=V2

WS A	nalyte Si	ummary			
Lab	Number	Failure Rate	Failure Rate	Average Recovery Variance	Average
Group	of	Number of	Percentage of	Number of analytes Significantly	Recovery
	Analytes	analytes	Analytes	Different High	Variance
		Significantly	Significantly		Percentage
		Different High	Different High		Significantly
					Different High
1PT	3	1	33.3%	2	66.7%
	,	1		=	
2PT	3	0	0.0%	0	0.0%
Same	3	2	66.7%	1	33.3%

Procedure Process Pr								1	,									,	
Number Labs		Study Open	Study Open	Analyte Name	NELAC	Number of	Average	Total	Total	Failure	Average	Average	Average	Z _{CALC}	Significance		F _{CALC}	Critial F at	F Test Average
Points P	Group Type	Date	Date Maximum		Analyte	individual	Number	Number	Number Not	Rate	Absolute	Recovery	Recovery	Failure	of difference	(< 5% Significant)	Average	p=0.05 for	Recovery Variance
National Part National Par		Minimum			Number	Labs	PT per	Data	Acceptable		z score		Standard	Rate	H0:p1=p2	Failure Rate	Recovery	Average	(F _{CALC} < Critical F)
PT WS 5/16/2005 1/7/2008 Chloride 1575 29 1.36 1.04 8 7.69% 0.8378 100.7% 7.6% 0.109 0.457 Same 0.704 1.453 Same 2PT WS 7/11/2005 4/7/2008 Chloride 1575 11 2.29 69 5 7.25% 0.7680 100.2% 9.0% 0.9467 prob Ho: V1=V2 V1=							Year	Points					Deviation		Failure Rate		Variance	Recovery	
Part																		Variance /	
Fig.																		probability	
2PT WS 7/11/2005 4/7/2008 Chloride 1575 11 2.29 69 5 7.25% 0.7680 100.2% 9.0% 0.9467 prob H0: V1=V2 17 VS 7/11/2005 17/2008 Fluoride 1730 28 1.52 106 6 5.66% 0.6841 99.4% 12.3% 0.262 0.397 Same 6.367 1.481 Significantly Differ 2PT WS 6/13/2005 4/7/2008 Fluoride 1730 10 2.13 60 4 6.67% 0.6194 98.0% 4.9%																		H0:V1=V2	
PT WS 7/11/2005 1/7/2008 Fluoride 1730 28 1.52 106 6 5.66% 0.6841 99.4% 12.3% 0.262 0.397 Same 6.367 1.481 Significantly Differ 2PT WS 6/13/2005 4/7/2008 Fluoride 1730 10 2.13 60 4 6.67% 0.6194 98.0% 4.9% 4.9% 6.67% 0.6194 98.0% 4.9% 6.67% 0.6194 98.0% 4.9% 6.67% 0.6194 98.0% 4.9% 6.67% 0.6194 98.0% 4.9% 6.67% 0.6194 98.0% 4.9% 6.67% 0.6194 98.0% 4.9% 6.67	1PT WS	5/16/2005	1/7/2008	Chloride	1575	29	1.36	104	8	7.69%	0.8378	100.7%	7.6%	0.109	0.457	Same	0.704	1.453	Same
2PT WS 6/13/2005 4/7/2008 Fluoride 1730 10 2.13 60 4 6.67% 0.6194 98.0% 4.9%	2PT WS	7/11/2005	4/7/2008	Chloride	1575	11	2.29	69	5	7.25%	0.7680	100.2%	9.0%					0.9467	prob H0: V1=V2
2PT WS 6/13/2005 4/7/2008 Fluoride 1730 10 2.13 60 4 6.67% 0.6194 98.0% 4.9%																			
1PT WS 7/11/2005 1/7/2008 Sulfate 2000 28 1.62 113 15 13.27% 1.0715 99.4% 15.9% 2.004 0.023 Significantly Different 5.833 1.488 Significantly Different 5.833 1.488 Significantly Different S.833 1.488 Significantly Different S.833 1.488 Significantly Different S.833 1.488 Significantly Different S.834 1.488 Significantly Different S.835 S.348 Significantly Different S.836 Significantly Different S.836 Significantly Different S.836 Significantly Different S.837 Significantly Different S.838 Significantly Different S.838 Significantly Different S.838 Significantly Different S.838 Significantly Different	1PT WS	7/11/2005	1/7/2008	Fluoride	1730	28	1.52	106	6	5.66%	0.6841	99.4%	12.3%	0.262	0.397	Same	6.367	1.481	Significantly Different
2PT WS 7/11/2005 4/7/2008 Sulfate 2000 10 2.08 57 2 3.51% 0.7403 98.4% 6.6%	2PT WS	6/13/2005	4/7/2008	Fluoride	1730	10	2.13	60	4	6.67%	0.6194	98.0%	4.9%					0.0000	prob H0: V1=V2
2PT WS 7/11/2005 4/7/2008 Sulfate 2000 10 2.08 57 2 3.51% 0.7403 98.4% 6.6% 0.0000 prob H0: V1=V2 Data Not used in Comparison 1PT WS 1/9/2006 1/7/2008 Chlorite 1595 6 1.25 15 0 0.00% 0.3507 98.7% 6.8% #DIV/0! #DIV/0! #NUM! #DIV/0! prob H0: V1=V2 1PT WS 1/9/2006 1/7/2008 Bromate 1535 4 1.50 12 3 25.00% 1.0077 88.9% 17.6% #DIV/0! #DIV/0! #DIV/0! #DIV/0! prob H0: V1=V2																			
Data Not used in Comparison	1PT WS	7/11/2005	1/7/2008	Sulfate	2000	28	1.62	113	15	13.27%	1.0715	99.4%	15.9%	2.004	0.023	Significantly Different	5.833	1.488	Significantly Different
PT WS	2PT WS	7/11/2005	4/7/2008	Sulfate	2000	10	2.08	57	2	3.51%	0.7403	98.4%	6.6%					0.0000	prob H0: V1=V2
PT WS																			
PT WS	Data Not use	d in Compar	ison																
2PT																			
2PT	1DT W/S	1/0/2006	1/7/2009	Chlorito	1505	6	1 25	15	0	0.00%	0.2507	09.7%	6 90/	#DI\//01	#DIV/0I	#DI\//0I	#DIV//0I	#NILIMI	#DI\//0I
1PT WS 1/9/2006 1/7/2008 Bromate 1535 4 1.50 12 3 25.00% 1.0077 88.9% 17.6% #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! prob H0: V1=V2		1/9/2000	1/1/2000	Cilionite	1393	_	1.20	13	U	0.0076	0.3307	90.7 /0	0.076	#DIV/0!	#DIV/0:	#DIV/0!	#DIV/0:	_	
2PT	2 1																	#DIV/0:	prob no. v i=v2
2PT	1DT WS	1/0/2006	1/7/2008	Bromate	1535	1	1.50	12	3	25 00%	1 0077	88 0%	17 6%	#DI\//01	#DIV/OI	#DI\//0I	#DIV/0I	#NII IMI	#DIV/0I
		1/9/2000	1/1/2000	Diomate	1000	_	1.50	12	3	23.0076	1.0077	00.970	17.076	#DIV/0:	#DIV/0:	#DIV/0:	#DIV/0:	_	
1PT WS 1/9/2006 1/7/2008 Bromide 1540 7 1.72 24 1 4.17% 0.7154 101.6% 11.3% 2.324 0.010 Significantly Different 0.172 2.014 Significantly Different	<u> </u>																	#DIV/U!	ριου πο. ν τ=ν2
	1DT WS	1/0/2006	1/7/2008	Bromide	15/10	7	1 72	2/	1	/ 17%	0.7154	101 6%	11 3%	2 324	0.010	Significantly Different	0.172	2.014	Significantly Different
									7					2.324	0.010	oigninearity Different	0.172		prob H0: V1=V2
21 1 WO 3/10/2000 1/1/2000 5/0/1000 1/0/2000 5/0/1000 1/0/2000 5/0/1000 1/0/2000 5/0/1000 1/0/2000 5/0/1000 1/0/2000 5/0/1000 5/0/2000 5/0	21 1 000	3/10/2003	1/1/2000	DIOTHUG	1340		4.00	44	,	23.11/0	1.7020	00.170	21.470					1.0000	prob 110. v 1–v2
1PT WS 1/9/2006 1/7/2008 Chlorate 1570 5 1.30 13 1 7.69% 0.7619 97.0% 8.5% #DIV/0! #DIV/0! #DIV/0! #DIV/0! #NUM! #DIV/0!	1PT WS	1/9/2006	1/7/2008	Chlorate	1570	5	1 30	13	1	7 60%	0.7610	97.0%	8 5%	#DI\//0!	#DIV/OI	#DI\//0I	#DI\//0!	#NI IMI	#DIV/0I
		1/3/2000	1/1/2000	Omorate	1370		1.50	13	1	1.03/0	0.7013	31.070	0.070	#טועוט!	#DIV/0:	#DIV/U:	#DIV/U!		prob H0: V1=V2
	21 1																	#DIV/U!	ριου πο. ν τ=ν2
#51V/0: PROFITO. VI=V																			