NELAC PT for Accreditation Fields of Proficiency Testing with PTRLs												
Effective October 1, 2007												
Matrix	EPA	NELAC Analyte		Conc Range	Acceptance Criteria ^{1,2,3,4}			NELAC PTRL ⁵				
	Analyte				a b		С	d				
	Code	Code										
			Radiochemistry	pCi/L (except as noted)					pCi/L			
Drinking Water	0001	2830	Gross Alpha	7 to 75	0.8586	1.4802	0.1610	1.1366	3.0			
Drinking Water	0002		Gross Beta	8 to 75	0.8508	2.9725	0.0571	2.9372	3.0			
Drinking Water	0008	2875	lodine-131	3 to 30	0.9711	0.8870	0.0624	0.6455	2.1			
Drinking Water	0012	2965	Radium-226	1 to 20	0.9253	0.3175	0.0942	0.0988	0.86			
Drinking Water	0013		Radium-228	2 to 20	0.9243	0.2265	0.1105	0.3788	0.88			
Drinking Water	0014		Natural Uranium	2 to 70	0.9568	0.0773	0.0668	0.2490	1.2			
Drinking Water	0014	3055	Uranium (mass)	3 to 104 ug/L	0.9568	0.1153	0.0668	0.3716	1.8 ug/L			
Drinking Water	0009	2995	Strontium-89	10 to 70	0.9648	0.1591	0.0379	2.6203	3.8			
Drinking Water	0010	3005	Strontium-90	3 to 45	0.9369	0.2279	0.0902	0.5390	1.4			
Drinking Water	0011	3030	Tritium	1000 to 24000	0.9883	-46.4776	0.0532	38.8382	760			
			Gamma Emitters ⁶									
Drinking Water	0007		Barium-133	10 to 100	0.9684	-0.1424	0.0503	1.0737	6.4			
Drinking Water	0005		Cesium-134 ⁷	10 to 100	0.9369	0.0845	0.0482	0.9306	6.6			
Drinking Water	0006		Cesium-137 ⁷	20 to 240	1.0225	0.2624	0.0347	1.5185	16			
Drinking Water	0003		Cobalt-60	10 to 120	1.0257	0.3051	0.0335	1.3315	7.2			
Drinking Water	0004		Zinc-65	30 to 360	1.0495	0.1245	0.0530	1.8271	25			

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1) Acceptance limits are set at the											
$(Mean = a^{T} + b; SD = c^{T} + d whe$	ere T is the assigned value).										
	evented using the evitoric contained in this	a table is loss than () 100/ of the s				ite are est					
at 10% of the assigned value.	nerated using the criteria contained in this		ssigned value	e, the lower a	ceptance in	ills are set					
3) If the lower acceptance limit gen	nerated using the criteria contained in this	s table is greater than (>) 90% of th	e assigned va	alue. the lowe	r acceptance	limits are set					
at 90% of the assigned value.			<u> </u>								
	nerated using the criteria contained in thi	s table is less than (<) 110% of the	assigned val	ue, the upper	acceptance	imits are set					
at 110% of the assigned value.											
	porting Limits (PTRLs) are provided as g										
	otained from the lowest spike level for ea										
	s (especially for analytes that typically exh										
· · · · · · · · · · · · · · · · · · ·	uld use a method that is sensitive enougl nimum for all analytes with an assigned v										
the analyte at a concentration grea	· · ·										
6) Laboratories seeking or maintair	ning NELAP accreditation for Gamma (P	hoton) Emitters must meet NELAC	PT requireme	ents for all Ga	mma Emitter						
	y Testing in a given PT study, by technol										
	ning NELAP accreditation for Radioactive			r both Radioa	ctive Cesium						
analytes in the Fields of Proficiency	y Testing in a given PT study, by technol	ogy/method (Cesium-134, Cesium-	137).								