

Table 1
Sample Media Information

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Matrix	Analytical Parameter	Representative Aliquot	Analytical Method
<u>Surveillance Air – January–September</u>			
	Gamma	746 m ³	Gamma Spectroscopy
	Gross alpha–beta	746 m ³	Gas–Flow Proportional Counting
	Tritium	3 m ³	Liquid Scintillation Counting
	Strontium–89,90	746 m ³	Gas–Flow Proportional Counting
	Actinides	746 m ³	Alpha Spectroscopy
<u>Surveillance Air – September–December</u>			
	Gamma	1492 m ³	Gamma Spectroscopy
	Gross alpha–beta	1492 m ³	Gas–Flow Proportional Counting
	Tritium	3 m ³	Liquid Scintillation Counting
	Strontium–89,90	1492 m ³	Gas–Flow Proportional Counting
	Actinides	1492 m ³	Alpha Spectroscopy
<u>Effluent Water</u>			
	Gamma	1 L	Gamma Spectroscopy
	Gross alpha–beta	1 L	Gas–Flow Proportional Counting
	Tritium	5 mL	Liquid Scintillation Counting
	Strontium–89,90	1 L	Gas–Flow Proportional Counting
	Actinides	1 L	Alpha Spectroscopy
<u>Stream Water</u>			
	Gamma	1 L	Gamma Spectroscopy
	Gross alpha–beta	1 L	Gas–Flow Proportional Counting
	Tritium	5 mL	Liquid Scintillation Counting
	Strontium–89,90	1 L	Gas–Flow Proportional Counting
	Actinides	1 L	Alpha Spectroscopy
	Technetium–99	250 mL	Gas–Flow Proportional Counting
<u>River Water</u>			
	Gamma	7.0 L	Gamma Spectroscopy
	Gross alpha–beta	1 L	Gas–Flow Proportional Counting
	Tritium	5 mL	Liquid Scintillation Counting
	Strontium–89,90	7.0 L	Gas–Flow Proportional Counting
	Actinides	1 L	Alpha Spectroscopy
	Technetium–99	250 mL	Gas–Flow Proportional Counting
<u>Drinking Water</u>			
	Gamma	1 L	Gamma Spectroscopy
	Gross alpha–beta	1 L	Gas–Flow Proportional Counting
	Tritium	5 mL	Liquid Scintillation Counting
	Strontium–89,90	1 L	Gas–Flow Proportional Counting
	Actinides	1 L	Alpha Spectroscopy

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<u>Wet/Dry Deposition (Rainwater)</u>			
	Gamma	0.37 m ²	Gamma Spectroscopy
	Gross alpha-beta	0.093 m ² (1/4 sample)	Gas-Flow Proportional Counting
	Tritium	5 mL	Liquid Scintillation Counting
	Strontium-89,90	0.031 m ² (1/12 sample)	Gas-Flow Proportional Counting
	Actinides	0.031 m ² (1/12 sample)	Alpha Spectroscopy
<u>Soil</u>			
	Gamma	650 g	Gamma Spectroscopy
	Gross alpha-beta	0.1 g	Gas-Flow Proportional Counting
	Strontium-89,90	5 g	Gas-Flow Proportional Counting
	Plutonium-238,239	5 g	Alpha Spectroscopy
	Actinides	5 g	Alpha Spectroscopy
<u>Sediment</u>			
	Gamma	650 g	Gamma Spectroscopy
	Gross alpha-beta	0.1 g	Gas-Flow Proportional Counting
	Strontium-89,90	15 g	Gas-Flow Proportional Counting
	Plutonium-238,239	5 g	Alpha Spectroscopy
	Actinides	5 g	Alpha Spectroscopy
<u>Vegetation</u>			
	Gamma	200 g	Gamma Spectroscopy
	Gross alpha-beta	1 g	Gas-Flow Proportional Counting
	Tritium	75 g	Liquid Scintillation Counting
	Strontium-89,90	10 g	Gas-Flow Proportional Counting
	Actinides	10 g	Alpha Spectroscopy
<u>Fish</u>			
<i>Edible</i>			
	Gamma	200 g	Gamma Spectroscopy
	Gross alpha-beta	1.5 g	Gas-Flow Proportional Counting
	Tritium	60 g	Liquid Scintillation Counting
	Strontium-89,90	200 g ^a	Gas-Flow Proportional Counting
	Plutonium-238,239	200 g ^a	Alpha Spectroscopy
<u>Fish</u>			
<i>Nonedible</i>			
	Gamma	200 g	Gamma Spectroscopy
	Gross alpha-beta	0.5 g	Gas-Flow Proportional Counting
	Strontium-89,90	25 g	Gas-Flow Proportional Counting

a 100 g for panfish

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<u>Deer/Hogs</u>			
<i>Muscle</i>	Gamma	200 g	Gamma Spectroscopy
	Strontium–89,90	100 g	Gas–Flow Proportional Counting
<i>Bone</i>	Strontium–89,90	2 g	Gas–Flow Proportional Counting
<u>Oysters/Crabs</u>			
	Gamma	200 g	Gamma Spectroscopy
	Gross alpha–beta	0.5 g	Gas–Flow Proportional Counting
	Strontium–89,90	100 g	Gas–Flow Proportional Counting
<u>Foods</u>			
	Gamma	1000 g	Gamma Spectroscopy
	Strontium–89,90	20 g	Gas–Flow Proportional Counting
	Tritium	100 g	Liquid Scintillation Counting
	Plutonium–238,239	100 g	Alpha Spectroscopy
<u>Milk</u>			
	Gamma	1 L	Gamma Spectroscopy
	Tritium	5 mL	Liquid Scintillation Counting
	Strontium–90	500 mL	Gas–Flow Proportional Counting
<u>Beef</u>			
	Gamma	200 g	Gamma Spectroscopy
	Strontium–89,90	200 g	Gas–Flow Proportional Counting
	Tritium	60 g	Liquid Scintillation Counting
	Plutonium–238,239	200 g	Alpha Spectroscopy