

Table C-7. Gross Alpha, Gross Beta, Tritium, and Cesium-137 Concentrations in the Big Lost River (BLR)

Location	Sampling Date	Analyte	Result ± 1s Uncertainty			Result ± 1s Uncertainty			Result > 3s
			(pCi/L)			(Bq/L)			
<b>SURFACE WATER</b>									
BLR at Rest Area	10/10/17	GROSS ALPHA	1.19	±	0.44	0.04	±	0.02	No
	10/10/17	GROSS BETA	0.77	±	0.45	0.03	±	0.02	No
	10/10/17	TRITIUM	86.10	±	23.90	3.19	±	0.89	Yes
	10/10/17	CESIUM	0.74	±	1.32	0.03	±	0.05	No
BLR at INTEC	10/10/17	GROSS ALPHA	0.88	±	0.40	0.01	±	0.01	No
	10/10/17	GROSS BETA	0.92	±	0.45	0.02	±	0.02	No
	10/10/17	TRITIUM	62.20	±	23.60	2.30	±	0.87	No
	10/10/17	CESIUM	0.09	±	0.77	0.00	±	0.03	No
BLR at INTEC (Duplicate)	10/10/17	GROSS ALPHA	1.56	±	0.40	0.06	±	0.01	Yes
	10/10/17	GROSS BETA	2.07	±	0.45	0.08	±	0.02	Yes
	10/10/17	TRITIUM	1.56	±	0.44	0.06	±	0.02	Yes
	10/10/17	CESIUM	46.30	±	22.90	1.71	±	0.85	No
BLR at EFS	10/10/17	GROSS ALPHA	0.81	±	0.41	0.03	±	0.02	No
	10/10/17	GROSS BETA	1.10	±	0.45	0.04	±	0.02	No
	10/10/17	TRITIUM	-8.15	±	23.20	-0.30	±	0.86	No
	10/10/17	CESIUM	0.09	±	1.00	0.00	±	0.04	No
BLR at NRF	10/10/17	GROSS ALPHA	1.60	±	0.45	0.06	±	0.02	Yes
	10/10/17	GROSS BETA	1.71	±	0.46	0.06	±	0.02	Yes
	10/10/17	TRITIUM	163.00	±	24.80	6.04	±	0.92	Yes
	10/10/17	CESIUM	-0.44	±	1.03	-0.02	±	0.04	No
BLR at Sinks	10/10/17	GROSS ALPHA	1.62	±	0.44	0.06	±	0.02	Yes
	10/10/17	GROSS BETA	1.77	±	0.46	0.07	±	0.02	Yes
	10/10/17	TRITIUM	65.30	±	0.44	2.42	±	0.02	Yes
	10/10/17	CESIUM	-2.41	±	23.00	-0.09	±	0.85	No
BLR Control (Birch Creek)	10/10/17	GROSS ALPHA	2.51	±	0.49	0.09	±	0.02	Yes
	10/10/17	GROSS BETA	0.93	±	0.46	0.03	±	0.02	No
	10/10/17	TRITIUM	78.60	±	23.80	2.91	±	0.88	Yes
	10/10/17	CESIUM	0.55	±	1.06	0.02	±	0.04	No