

Background Sample Results				CLP ID:	MC0AE2		MC0AE3		MC0AG6	
				Sample Number:	FB-SS-04		FB-SS-05		FB-SD-10	
				Sampling Location:	SS-04		SS-05		SD-10	
				Matrix:	Surface Soil		Surface Soil		Sediment	
				Units:	pCi/g		pCi/g		pCi/g	
				Date Sampled:	3/27/2024		3/27/2024		3/27/2024	
Parameter	Reference ID	Background Low (pCi/g)	Preliminary Remediation Goals (PRG)(pCi/g) ¹	Action (Higher value between background and PRG)	Result	Q	Result	Q	Result	Q
Actinium-227	Ac227	0.0793	-	0.0793	0.123	U	0.0793	U	0.402	U
Actinium-228	Ac228	1.57	40000	40000	1.57		1.84		1.71	
Bismuth-210	Bi210		35300	35300						
Bismuth-212	Bi212	0.372	-	0.372	3.01		0.372	U	0.489	U
Bismuth-214	Bi214	0.952	-	0.952	0.952		1.17		1.81	
Lead-210	Pb210	2.14	26.1	26.1	2.79		2.14	U	3.02	
Lead-212	Pb212	1.11	-	1.11	1.29		1.11		1.7	
Lead-214	Pb214	1.02	-	1.02	1.02		1.12		1.68	
Polonium-210	Po210	0.353	1300	1300	0.353		1.05		16.9	UG
Potassium-40	K40	16.8	-	16.8	23.3		16.8		16.5	
Protactinium-231	Pa231	-2.64	-	-2.64	-2.64	U	-2.42	U	0	U
Radium-226	Ra226	0.952	1.32	1.32	0.952		1.17		1.81	
Radium-228	Ra228	1.57	3.28	3.28	1.57		1.84		1.71	
Thallium-208	Tl208	0.444	-	0.444	0.606		0.444		0.554	
Thorium-228	Th228	1.54	-	1.54	1.54		1.73		22.6	UG
Thorium-230	Th230	0.943	1.38	1.38	1.05		0.943		37	G
Thorium-232	Th232	0.841	0.985	0.985	0.841		1.14		4.1	UG
Thorium-234	Th234	1.8	-	1.8	1.8	U	1.86	U	1.86	
Uranium-234	U234	0.81	2.13	2.13	0.81		1.1		3.67	UG
Uranium-235	U235	0.0183	4.59	4.59	0.0183	U	0.056	U	-1.14	UG
Uranium-238	U238	0.602	1.25	1.25	0.602		0.688		2.75	UG

NOTES:

1. The PRG was calculated by use of the EPA Superfund Radionuclide PRG Calculator for a worker, and a target cancer risk of 1E-4 criteria was used for radionuclides without associated PRG values

pCi/g = Picocuries per gram

PRG = Preliminary Remediation Goals

Q = Qualifiers

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Upper Impoundment Surface Water Results				CLP ID:	MC0AD4		MC0AD5		MC0AD6		MC0AD7	
				Sample Number:	FB-SW-05		FB-SW-06		FB-SW-07		FB-SW-08	
				Sampling Location:	SW-05		SW-06		SW-07		SW-08	
				Matrix:	Surface Water		Surface Water		Surface Water		Surface Water	
				Units:	pCi/mL		pCi/mL		pCi/mL		pCi/mL	
				Date Sampled:	3/26/2024		3/26/2024		3/27/2024		3/27/2024	
Parameter	Reference ID	Background Low (pCi/mL)	Preliminary Remediation Goals (PRG)(pCi/mL)	Action (Higher value between background and PRG)	Result	Q	Result	Q	Result	Q	Result	Q
Actinium-227	Ac227	0.0793	-	0.0793	67.8	U	59.3	U	-67.4	U	6.12	U
Actinium-228	Ac228	1.57	40000	40000	24.4	U	115		69.2		25.6	U
Bismuth-210	Bi210		35300	35300								
Bismuth-212	Bi212	0.372	-	0.372	0	U	-110	U	-3.58	U	-13.3	U
Bismuth-214	Bi214	0.952	-	0.952	667		807		845		692	
Lead-210	Pb210	2.14	26.1	26.1	7.32		6.07		8.83		6.9	
Lead-212	Pb212	1.11	-	1.11	-13.1	U	16.3	U	7.13	U	15.7	U
Lead-214	Pb214	1.02	-	1.02	624		760		801		663	
Polonium-210	Po210	0.353	1300	1300	3.55		3.59		3.88	G	3.89	
Potassium-40	K40	16.8	-	16.8	60.4	U	277		321		84.4	U
Protactinium-231	Pa231	-2.64	-		146	U	-334	U	0	U	0	U
Radium-226	Ra226	0.952	1.32	1.32	3.05		0.23		1.14		0.321	
Radium-228	Ra228	1.57	3.28	3.28	1.39		0.025	U	0.673	U	0.198	U
Thallium-208	Tl208	0.444	-	0.444	7.66	U	17.3	U	-0.882	U	7.53	U
Thorium-228	Th228	1.54	-	1.54	1.22		3.4		2.56		2.73	
Thorium-230	Th230	0.943	1.38	1.38	0.15	U	0.178	U	-0.103	U	0.0715	U
Thorium-232	Th232	0.841	0.985	0.985	0.0179	U	0.0385	U	0.0372	U	0.00577	U
Thorium-234	Th234	1.8	-	1.8	-244	U	53.6	U	82.2	U	-111	U
Uranium-234	U234	0.81	2.13	2.13	0.0141	U	0.0355	U	0.0465	U	-0.0285	U
Uranium-235	U235	0.0183	4.59	4.59	0	U	0	U	-0.0299	U	0	U
Uranium-238	U238	0.602	1.25	1.25	0	U	-0.00925	U	0.0064	U	-0.00812	U

NOTES:

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Upper Impoundment Sediment Results				CLP ID:	MC0AA7		MC0AA8		MC0AG3		MC0AG4	
				Sample Number:	FB-SD-05		FB-SD-06		FB-SD-07		FB-SD-08	
				Sampling Location:	SD-05		SD-06		SD-07		SD-08	
				Matrix:	Sediment		Sediment		Sediment		Sediment	
				Units:	pCi/g		pCi/g		pCi/g		pCi/g	
				Date Sampled:	3/26/2024		3/26/2024		3/27/2024		3/27/2024	
Parameter	Reference ID	Background Low (pCi/g)	Preliminary Remediation Goals (PRG)(pCi/g)1	Action (Higher value between background and PRG)	Result	Q	Result	Q	Result	Q	Result	Q
Actinium-227	Ac227	0.0793	-	0.0793	0.966	U	0.43	U	-5.71	UG	1.26	U
Actinium-228	Ac228	1.57	40000	40000	8.59		14.7		59.3		21.7	
Bismuth-210	Bi210		35300	35300								
Bismuth-212	Bi212	0.372	-	0.372	19.2		19.6		92.3		41.6	
Bismuth-214	Bi214	0.952	-	0.952	103		160		716		284	
Lead-210	Pb210	2.14	26.1	26.1	37.8		25.4		60		39.6	
Lead-212	Pb212	1.11	-	1.11	15.6		18.3		91.6		34.2	
Lead-214	Pb214	1.02	-	1.02	103		160		734		288	
Polonium-210	Po210	0.353	1300	1300	81.3	G	41.2	G	653	G	80.8	G
Potassium-40	K40	16.8	-	16.8	11.6		10.4		5.91	U	1.63	U
Protactinium-231	Pa231	-2.64	-		-8.56	U	-8.74	U	-27	U	-12.1	U
Radium-226	Ra226	0.952	1.32	1.32	103		160		716	G	284	G
Radium-228	Ra228	1.57	3.28	3.28	8.59		14.7		59.3		21.7	
Thallium-208	Tl208	0.444	-	0.444	5.38		5.92		31.9		12	
Thorium-228	Th228	1.54	-	1.54	21.4	G	13.7	UG	102	G	49	G
Thorium-230	Th230	0.943	1.38	1.38	10.8	G	19.9	G	30.1	G	29.7	G
Thorium-232	Th232	0.841	0.985	0.985	0.241	UG	0.886	UG	3.75	UG	-0.0071	UG
Thorium-234	Th234	1.8	-	1.8	3.31	U	2.79	U	-11.1	U	3.72	U
Uranium-234	U234	0.81	2.13	2.13	2.73	UG	4.43	UG	-0.296	UG	0.998	UG
Uranium-235	U235	0.0183	4.59	4.59	0	UG	-0.344	UG	-0.737	UG	2.48	UG
Uranium-238	U238	0.602	1.25	1.25	2.04	UG	0.276	UG	0.886	UG	1.49	UG

NOTES:

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Upper Complex Surface Water Results				CLP ID:	MC0AE1	
				Sample Number:	FB-SW-12	
				Sampling Location:	SW-12	
				Matrix:	Surface Water	
				Units:	pCi/mL	
				Date Sampled:	3/28/2024	
Parameter	Reference ID	Background Low (pCi/mL)	Preliminary Remediation Goals (PRG)(pCi/mL)	Action (Higher value between background and PRG)	Result	Q
Actinium-227	Ac227	0.0793	-	0.0793	0	U
Actinium-228	Ac228	1.57	40000	40000	-23.1	U
Bismuth-210	Bi210		35300	35300		
Bismuth-212	Bi212	0.372	-	0.372	-93.3	U
Bismuth-214	Bi214	0.952	-	0.952	80	
Lead-210	Pb210	2.14	26.1	26.1	0.714	U
Lead-212	Pb212	1.11	-	1.11	-14.4	U
Lead-214	Pb214	1.02	-	1.02	55	
Polonium-210	Po210	0.353	1300	1300	0.448	
Potassium-40	K40	16.8	-	16.8	44.4	U
Protactinium-231	Pa231	-2.64	-		138	U
Radium-226	Ra226	0.952	1.32	1.32	33.7	
Radium-228	Ra228	1.57	3.28	3.28	2.96	
Thallium-208	Tl208	0.444	-	0.444	-1.41	U
Thorium-228	Th228	1.54	-	1.54	0.456	
Thorium-230	Th230	0.943	1.38	1.38	-0.0664	U
Thorium-232	Th232	0.841	0.985	0.985	-0.0128	U
Thorium-234	Th234	1.8	-	1.8	-164	U
Uranium-234	U234	0.81	2.13	2.13	0.0532	U
Uranium-235	U235	0.0183	4.59	4.59	0.017	U
Uranium-238	U238	0.602	1.25	1.25	0.0313	U

NOTES:

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Upper Complex Soil and Sediment Results				CLP ID:	MC0AE7		MC0AF2		MC0AF4		MC0AF5		MC0AF8		MC0AG8	
				Sample Number:	FB-SS-09		FB-SS-14		FB-SS-16		FB-SS-17		FB-SS-20		FB-SD-12	
				Sampling Location:	SS-09		SS-14		SS-16		SS-17		SS-20		SD-12	
				Matrix:	Surface Soil		Surface Soil		Surface Soil		Surface Soil		Surface Soil		Sediment	
				Units:	pCi/g		pCi/g		pCi/g		pCi/g		pCi/g		pCi/g	
				Date Sampled:	3/28/2024		3/28/2024		3/28/2024		3/28/2024		3/29/2024		3/28/2024	
Parameter	Reference ID	Backgro und Low (pCi/g)	Prelimina ry Remediat ion Goals (PRG)(pCi/g)1	Action (Higher value between background and PRG)	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Actinium-227	Ac227	0.0793	-	0.0793	-0.501	U	-0.308	U	0.487	U	-0.384	U	0.0463	U	6.3	U
Actinium-228	Ac228	1.57	40000	40000	1.01		0.735		5.98		1.15		3.2		71.8	
Bismuth-210	Bi210		35300	35300												
Bismuth-212	Bi212	0.372	-	0.372	0.108	U	0.461	U	14.9		1.79		3.4		87	
Bismuth-214	Bi214	0.952	-	0.952	2.29		1.34		77.6		1.07		35.7		1140	
Lead-210	Pb210	2.14	26.1	26.1	13.9		2.3		65.7		0.686	U	6.36		36.4	
Lead-212	Pb212	1.11	-	1.11	0.65		0.392		16.1		1.09		2.97		86.4	
Lead-214	Pb214	1.02	-	1.02	2.13		1.46		87.5		1.12		39		1330	
Polonium-210	Po210	0.353	1300	1300	18.4		2.44		190	G	0.527		10.7		243	G
Potassium-40	K40	16.8	-	16.8	8.18		8.7		8.22		9.99		10.1		-7.78	U
Protactinium-231	Pa231	-2.64	-		0	U	0	U	-4.69	U	0.37	U	-2.63	U	0	U
Radium-226	Ra226	0.952	1.32	1.32	2.29		1.34		77.6		1.07		35.7		1140	G
Radium-228	Ra228	1.57	3.28	3.28	1.01		0.735		5.98		1.15		3.2		71.8	
Thallium-208	Tl208	0.444	-	0.444	0.187		0.161		4.71		0.413		0.991		29	
Thorium-228	Th228	1.54	-	1.54	0.849		0.694		22.5	G	0.792		4.14	G	103	G
Thorium-230	Th230	0.943	1.38	1.38	1.14		0.583		3.54	G	0.835		2.4		32.7	G
Thorium-232	Th232	0.841	0.985	0.985	0.672		0.399		0.682	UG	1.02		0.762		5.04	UG
Thorium-234	Th234	1.8	-	1.8	1.19	U	0.00149	U	1.15	U	0.534	U	1.28	U	6.67	U
Uranium-234	U234	0.81	2.13	2.13	0.639		0.652		0.781	UG	0.864		0.603	U	5.18	UG
Uranium-235	U235	0.0183	4.59	4.59	0.129		0.0095	U	0.389	UG	0.016	U	0.075	U	2.34	UG
Uranium-238	U238	0.602	1.25	1.25	0.478		0.438		0.78	UG	0.755		1.35		7.51	G

NOTES:

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Upper Complex Brine Solids Results				CLP ID:	MC0AC6		MC0AC7		MC0AC8		MC0AG1	
				Sample Number:	FB-BS-01		FB-BS-02		FB-BS-03		FB-BS-06	
				Sampling Location:	BS-01		BS-02		BS-03		BS-06	
				Matrix:	Brine Solids		Brine Solids		Brine Solids		Brine Solids	
				Units:	pCi/g		pCi/g		pCi/g		pCi/g	
				Date Sampled:	3/28/2024		3/28/2024		3/28/2024		3/29/2024	
Parameter	Reference ID	Background Low (pCi/g)	Preliminary Remediation Goals (PRG)(pCi/g)1	Action (Higher value between background and PRG)	Result	Q	Result	Q	Result	Q	Result	Q
Actinium-227	Ac227	0.0793	-	0.0793								
Actinium-228	Ac228	1.57	40000	40000								
Bismuth-210	Bi210	-	35300	35300								
Bismuth-212	Bi212	0.372	-	0.372								
Bismuth-214	Bi214	0.952	-	0.952								
Lead-210	Pb210	2.14	26.1	26.1								
Lead-212	Pb212	1.11	-	1.11								
Lead-214	Pb214	1.02	-	1.02								
Polonium-210	Po210	0.353	1300	1300								
Potassium-40	K40	16.8	-	16.8								
Protactinium-231	Pa231	-2.64	-									
Radium-226	Ra226	0.952	1.32	1.32	1270	G	1310	G	2690	G	32.3	
Radium-228	Ra228	1.57	3.28	3.28	87.8		197		197		3.17	
Thallium-208	Tl208	0.444	-	0.444								
Thorium-228	Th228	1.54	-	1.54	76	G	301	G	278	G	13.7	G
Thorium-230	Th230	0.943	1.38	1.38	54.8	G	69.2	G	117	G	3.44	G
Thorium-232	Th232	0.841	0.985	0.985	3.12	UG	10.2	UG	10.8	UG	0.469	UG
Thorium-234	Th234	1.8	-	1.8								
Uranium-234	U234	0.81	2.13	2.13	2.04	UG	6.79	UG	-1.36	UG	1.1	UG
Uranium-235	U235	0.0183	4.59	4.59	0	UG	-0.939	UG	3.38	UG	0.229	UG
Uranium-238	U238	0.602	1.25	1.25	0.68	UG	0	UG	0	UG	0.138	UG

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Lower Impoundment Surface Water Results				CLP ID:	MC0AD0		MC0AD1		MC0AD2		MC0AD3	
				Sample Number:	FB-SW-01		FB-SW-02		FB-SW-03		FB-SW-04	
				Sampling Location:	SW-01		SW-02		SW-03		SW-04	
				Matrix:	Surface Water		Surface Water		Surface Water		Surface Water	
				Units:	pCi/mL		pCi/mL		pCi/mL		pCi/mL	
				Date Sampled:	3/26/2024		3/26/2024		3/26/2024		3/26/2024	
Parameter	Reference ID	Background Low (pCi/mL)	Preliminary Remediation Goals (PRG)(pCi/mL)	Action (Higher value between background and PRG)	Result	Q	Result	Q	Result	Q	Result	Q
Actinium-227	Ac227	0.0793	-	0.0793	-82.7	U	22.2	U	53	U	20.6	U
Actinium-228	Ac228	1.57	40000	40000	17.7	U	68.1		30.2	U	57.7	
Bismuth-210	Bi210	-	35300	35300								
Bismuth-212	Bi212	0.372	-	0.372	-4	U	-175	U	110	U	156	U
Bismuth-214	Bi214	0.952	-	0.952	227		369		668		510	
Lead-210	Pb210	2.14	26.1	26.1	0.621	U	-0.0305	U	7.44		-0.0433	U
Lead-212	Pb212	1.11	-	1.11	-18.6	U	0.477	U	4.51	U	-3.06	U
Lead-214	Pb214	1.02	-	1.02	301		357		667		434	
Polonium-210	Po210	0.353	1300	1300	1.38	G	0.558		0.419		0.211	U
Potassium-40	K40	16.8	-	16.8	-19	U	-39.2	U	23.1	U	165	U
Protactinium-231	Pa231	-2.64	-		0	U	73.1	U	0	U	0	U
Radium-226	Ra226	0.952	1.32	1.32	0.197		2.05		3.66		5.99	
Radium-228	Ra228	1.57	3.28	3.28	0.859		0.0414	U	0.34	UG	0.822	
Thallium-208	Tl208	0.444	-	0.444	-6.38	U	9.51	U	10.3	U	-0.096	U
Thorium-228	Th228	1.54	-	1.54	2.91		0.852		0.815		0.537	
Thorium-230	Th230	0.943	1.38	1.38	0.251	U	0.141	U	0.102	U	0.183	U
Thorium-232	Th232	0.841	0.985	0.985	-0.0192	U	0.016	U	-0.0201	U	-0.0108	U
Thorium-234	Th234	1.8	-	1.8	-425	U	24	U	-98.2	U	-256	U
Uranium-234	U234	0.81	2.13	2.13	0.112	U	0.067	U	0.0709	U	0.0482	U
Uranium-235	U235	0.0183	4.59	4.59	0.0287	U	0.0198	U	0.0273	U	-0.00375	U
Uranium-238	U238	0.602	1.25	1.25	0.0604	U	0.0716	U	0.0606	U	-0.0707	U

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Lower Impoundment Soil and Sediment Results				CLP ID:	MC0AA0		MC0AA1		MC0AA2		MC0AE4		MC0AA3		MC0AA4		MC0AA5	
				Sample Number:	FB-SS-01		FB-SS-02		FB-SS-03		FB-SS-06		FB-SD-01		FB-SD-02		FB-SD-03	
				Sampling Location:	SS-01		SS-02		SS-03		SS-06		SD-01		SD-02		SD-03	
				Matrix:	Surface Soil		Surface Soil		Surface Soil		Surface Soil		Sediment		Sediment		Sediment	
				Units:	pCi/g		pCi/g		pCi/g		pCi/g		pCi/g		pCi/g		pCi/g	
				Date Sampled:	3/25/2024		3/25/2024		3/25/2024		3/27/2024		3/26/2024		3/26/2024		3/26/2024	
Parameter	Reference ID	Background Low (pCi/g)	Preliminary Remediation Goals (PRG)(pCi/g)1	Action (Higher value between background and PRG)	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Actinium-227	Ac227	0.0793	-	0.0793	-0.935	U	-0.353	U	-0.518	U	0.3	U	-1.15	U	-0.769	U	0.541	U
Actinium-228	Ac228	1.57	40000	40000	2.44		1.89		1.54		1.84		0.837	U	2.57		2.11	
Bismuth-210	Bi210	-	35300	35300														
Bismuth-212	Bi212	0.372	-	0.372	4.63		3.3		2.7		1.01	U	31.3		29		35.4	
Bismuth-214	Bi214	0.952	-	0.952	11		8.56		1.41		8.32		20.7		18.3		24.2	
Lead-210	Pb210	2.14	26.1	26.1	3.71	U	2.13	U	2.69	U	1.88	U	62.2		45.9		88.4	
Lead-212	Pb212	1.11	-	1.11	1.94		1.42		1.49		1.3		31.4		29.8		37.8	
Lead-214	Pb214	1.02	-	1.02	10.7		7.82		1.37		8.19		21.1		18.6		24.2	
Polonium-210	Po210	0.353	1300	1300	1.8		2.23		1.39		1.05		43.2		11.8		123	
Potassium-40	K40	16.8	-	16.8	21.7		19.5		20.9		17.5		16.3		12.6		11	
Protactinium-231	Pa231	-2.64	-		0	U	0.906	U	1.74	U	-2.64	U	2.1	U	3.93	U	0	U
Radium-226	Ra226	0.952	1.32	1.32	11		8.56		1.41		8.32		20.7		18.3		24.2	
Radium-228	Ra228	1.57	3.28	3.28	2.44		1.89		1.54		1.84		0.837	U	2.57		2.11	
Thallium-208	Tl208	0.444	-	0.444	0.768		0.54		0.553		0.606		10.4		10.2		13.1	
Thorium-228	Th228	1.54	-	1.54	1.56		1.45		0.925		1.73		23.5		25.7		33.5	
Thorium-230	Th230	0.943	1.38	1.38	1.28		1.03		1.06		0.943		0.474		0.725		1.41	
Thorium-232	Th232	0.841	0.985	0.985	1.01		0.83		1.03		1.14		0.604		0.334		0.495	
Thorium-234	Th234	1.8	-	1.8	0.862	U	0.46	U	2.89	U	1.8	U	2.01	U	-4.31	U	-1.16	U
Uranium-234	U234	0.81	2.13	2.13	0.759		0.681		0.83		0.789		0.445		0.607		0.34	U
Uranium-235	U235	0.0183	4.59	4.59	0.117		0.137		0.0446	U	0.0275	U	0	U	0.063	U	0.0314	U
Uranium-238	U238	0.602	1.25	1.25	1.04		0.741		0.921		0.707		0.532		0.699		0.528	

NOTES:

1. The PRG was calculated by use of the EPA Superfund Radionuclide PRG Calculator for a worker, and a target cancer risk of 1E-4 criteria was used for radionuclides without associated PRG values

pCi/g = Picocuries per gram

PRG = Preliminary Remediation Goals

Q = Qualifiers

U = Result is less than the sample detection limit.

G = The Sample MDC is greater than the requested RL.

MDC = Minimum Detectable Concentration

RL = Reporting Limit

Lower Complex Soil Sample Results				CLP ID:	MC0AF3		MC0AF6		MC0AF7	
				Sample Number:	FB-SS-15		FB-SS-18		FB-SS-19	
				Sampling Location:	SS-15		SS-18		SS-19	
				Matrix:	Surface Soil		Surface Soil		Surface Soil	
				Units:	pCi/g		pCi/g		pCi/g	
				Date Sampled:	3/28/2024		3/28/2024		3/29/2024	
Parameter	Reference ID	Background Low (pCi/g)	Preliminary Remediation Goals (PRG)(pCi/g) ¹	Action (Higher value between background and PRG)	Result	Q	Result	Q	Result	Q
Actinium-227	Ac227	0.0793	-	0.0793	0.269	U	0.203	U	-1.25	U
Actinium-228	Ac228	1.57	40000	40000	1.07		1.29		4.74	
Bismuth-210	Bi210	-	35300	35300						
Bismuth-212	Bi212	0.372	-	0.372	0.439	U	0	U	1.3	U
Bismuth-214	Bi214	0.952	-	0.952	1.36		1.07		53.9	
Lead-210	Pb210	2.14	26.1	26.1	3.55		0.731	U	7.29	
Lead-212	Pb212	1.11	-	1.11	1.35		1.04		5.87	
Lead-214	Pb214	1.02	-	1.02	1.62		1.08		61	
Polonium-210	Po210	0.353	1300	1300	1.05		0.705		10.5	G
Potassium-40	K40	16.8	-	16.8	17.4		14.6		10.8	
Protactinium-231	Pa231	-2.64	-		-1.04	U	0.718	U	-3.16	U
Radium-226	Ra226	0.952	1.32	1.32	1.36		1.07		53.9	
Radium-228	Ra228	1.57	3.28	3.28	1.07		1.29		4.74	
Thallium-208	Tl208	0.444	-	0.444	0.451		0.362		1.95	
Thorium-228	Th228	1.54	-	1.54	1.24		1.35		11.9	G
Thorium-230	Th230	0.943	1.38	1.38	1.39		1.5		7.41	G
Thorium-232	Th232	0.841	0.985	0.985	0.955		1.16		1.61	UG
Thorium-234	Th234	1.8	-	1.8	1.65		1		0.955	U
Uranium-234	U234	0.81	2.13	2.13	0.898		0.96		3.36	G
Uranium-235	U235	0.0183	4.59	4.59	0.0554		0.0688	U	-0.322	UG
Uranium-238	U238	0.602	1.25	1.25	1.09		0.899		0.602	UG

NOTES:

1. The PRG was calculated by use of the EPA Superfund Radionuclide PRG Calculator for a worker and a target cancer risk of 1E-4 criteria was used for radionuclides without associated PRG values

pCi/g = Picocuries per gram

PRG = Preliminary Remediation Goals

Q = Qualifiers

U = Result is less than the sample detection limit.

G = The Sample MDC is greater than the requested RL.

MDC = Minimum Detectable Concentration

RL = Reporting Limit

Lower Complex Brine Solids Results				CLP ID:	MC0AF9	
				Sample Number:	FB-BS-05	
				Sampling Location:	BS-05	
				Matrix:	Brine Solids	
				Units:	pCi/g	
				Date Sampled:	3/29/2024	
Parameter	Reference ID	Backgro und Low (pCi/g)	Prelimina ry Remediat ion Goals (PRG)(pCi/g) ¹	Action (Higher value between background and PRG)	Result	Q
Actinium-227	Ac227	0.0793	-	0.0793		
Actinium-228	Ac228	1.57	40000	40000		
Bismuth-210	Bi210		35300	35300		
Bismuth-212	Bi212	0.372	-	0.372		
Bismuth-214	Bi214	0.952	-	0.952		
Lead-210	Pb210	2.14	26.1	26.1		
Lead-212	Pb212	1.11	-	1.11		
Lead-214	Pb214	1.02	-	1.02		
Polonium-210	Po210	0.353	1300	1300		
Potassium-40	K40	16.8	-	16.8		
Protactinium-231	Pa231	-2.64	-			
Radium-226	Ra226	0.952	1.32	1.32	148	G
Radium-228	Ra228	1.57	3.28	3.28	11.5	
Thallium-208	Tl208	0.444	-	0.444		
Thorium-228	Th228	1.54	-	1.54	6.22	UG
Thorium-230	Th230	0.943	1.38	1.38	24.5	G
Thorium-232	Th232	0.841	0.985	0.985	0.438	UG
Thorium-234	Th234	1.8	-	1.8		
Uranium-234	U234	0.81	2.13	2.13	-0.854	UG
Uranium-235	U235	0.0183	4.59	4.59	-0.531	UG
Uranium-238	U238	0.602	1.25	1.25	0.213	UG

NOTES:

1. The PRG was calculated by use of the EPA Superfund Radionuclide PRG Calculator for a worker, and a target cancer risk of 1E-4 criteria was used for radionuclides without associated PRG values

pCi/g = Picocuries per gram

PRG = Preliminary Remediation Goals

Q = Qualifiers

U = Result is less than the sample detection limit.

G = The Sample MDC is greater than the requested RL.

MDC = Minimum Detectable Concentration

RL = Reporting Limit

East Pond Surface Water Results				CLP ID:	MC0AE0	
				Sample Number:	FB-SW-11	
				Sampling Location:	SW-11	
				Matrix:	Surface Water	
				Units:	pCi/mL	
				Date Sampled:	3/27/2024	
Parameter	Reference ID	Background Low (pCi/mL)	Preliminary Remediation Goals (PRG)(pCi/mL)	Action (Higher value between background and PRG)	Result	Q
Actinium-227	Ac227	0.0793	-	0.0793	24.4	U
Actinium-228	Ac228	1.57	40000	40000	11.9	U
Bismuth-210	Bi210		35300	35300		
Bismuth-212	Bi212	0.372	-	0.372	-59.9	U
Bismuth-214	Bi214	0.952	-	0.952	15.3	U
Lead-210	Pb210	2.14	26.1	26.1	-0.0266	U
Lead-212	Pb212	1.11	-	1.11	5.26	U
Lead-214	Pb214	1.02	-	1.02	50.9	
Polonium-210	Po210	0.353	1300	1300	0.0587	U
Potassium-40	K40	16.8	-	16.8	-43.4	U
Protactinium-231	Pa231	-2.64	-		0	U
Radium-226	Ra226	0.952	1.32	1.32	1.11	
Radium-228	Ra228	1.57	3.28	3.28	-0.196	U
Thallium-208	Tl208	0.444	-	0.444	-1.85	U
Thorium-228	Th228	1.54	-	1.54	0.0525	U
Thorium-230	Th230	0.943	1.38	1.38	0.139	U
Thorium-232	Th232	0.841	0.985	0.985	0.0451	U
Thorium-234	Th234	1.8	-	1.8	113	U
Uranium-234	U234	0.81	2.13	2.13	1.3	
Uranium-235	U235	0.0183	4.59	4.59	0.0569	U
Uranium-238	U238	0.602	1.25	1.25	0.368	

NOTES:

1. The PRG was calculated by use of the EPA Superfund Radionuclide PRG Calculator for a worker, and a target cancer risk of 1E-4 criteria was used for radionuclides without associated PRG values

pCi/g = Picocuries per gram

PRG = Preliminary Remediation Goals

Q = Qualifiers

U = Result is less than the sample detection limit.

G = The Sample MDC is greater than the requested RL.

MDC = Minimum Detectable Concentration

RL = Reporting Limit

East Pond Soil and Sediment Results				CLP ID:	MC0AE8		MC0AE9		MC0AF0		MC0AF1		MC0AG7		MC0AH0	
				Sample Number:	FB-SS-10		FB-SS-11		FB-SS-12		FB-SS-13		FB-SD-11		FB-SD-14	
				Sampling Location:	SS-10		SS-11		SS-12		SS-13		SD-11		SD-14	
				Matrix:	Surface Soil		Surface Soil		Surface Soil		Surface Soil		Sediment		Sediment	
				Units:	pCi/g		pCi/g		pCi/g		pCi/g		pCi/g		pCi/g	
				Date Sampled:	3/28/2024		3/28/2024		3/28/2024		3/28/2024		3/27/2024		3/29/2024	
Parameter	Reference ID	Background Low (pCi/g)	Preliminary Remediation Goals (PRG)(pCi/g) ¹	Action (Higher value between background and PRG)	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Actinium-227	Ac227	0.0793	-	0.0793	-1.21	U	-0.968	U	-1.33	U	-1.34	U	0.246	U	4.27	U
Actinium-228	Ac228	1.57	40000	40000	4.14		2.91		3.46		3.89		1.99		46.8	
Bismuth-210	Bi210		35300	35300												
Bismuth-212	Bi212	0.372	-	0.372	2.23	U	1.07	U	-1.74	U	1.58	U	0	U	33.5	
Bismuth-214	Bi214	0.952	-	0.952	53.1		20.3		30.6		35.2		3.74		765	
Lead-210	Pb210	2.14	26.1	26.1	5.19	U	1.96	U	8.45		5.36	U	2.35	U	10.1	U
Lead-212	Pb212	1.11	-	1.11	4.07		1.93		2.62		2.46		1.17		25	
Lead-214	Pb214	1.02	-	1.02	51.2		22.6		34.7		37.6		4.51		776	
Polonium-210	Po210	0.353	1300	1300	14.5	G	4.43		2.48	G	4.76	G	13	UG	114	
Potassium-40	K40	16.8	-	16.8	13.8		19.1		19.1		18.5		16.5		16.1	
Protactinium-231	Pa231	-2.64	-		0	U	0	U	1.82	U	-3.08	U	1.08	U	-28	U
Radium-226	Ra226	0.952	1.32	1.32	53.1		20.3		30.6		35.2		3.74		765	G
Radium-228	Ra228	1.57	3.28	3.28	4.14		2.91		3.46		3.89		1.99		46.8	
Thallium-208	Tl208	0.444	-	0.444	1.51		0.561		0.852		0.995		0.435		9.26	
Thorium-228	Th228	1.54	-	1.54	3.85	G	1.97		3.19	G	3.73	G	-1.8	UG	26.5	
Thorium-230	Th230	0.943	1.38	1.38	1.86	G	1.64		2.51	G	1.81	G	102	G	1.12	
Thorium-232	Th232	0.841	0.985	0.985	1.42	G	1.28		1.52		1.22		0.869	UG	0.628	
Thorium-234	Th234	1.8	-	1.8	-0.697	U	0.982	U	1.14	U	1.28	U	0.441	U	9.39	
Uranium-234	U234	0.81	2.13	2.13	0.597	U	0.718		1.5	G	1.41		2.11	UG	0.705	
Uranium-235	U235	0.0183	4.59	4.59	0	U	0.0777	U	0.283	UG	0.52	U	0	UG	0.0235	U
Uranium-238	U238	0.602	1.25	1.25	0.761	U	0.607		2.22	G	0.227	UG	0	UG	0.434	

NOTES:

1. The PRG was calculated by use of the EPA Superfund Radionuclide PRG Calculator for a worker, and a target cancer risk of 1E-4 criteria was used for radionuclides without associated PRG values

pCi/g = Picocuries per gram

PRG = Preliminary Remediation Goals

Q = Qualifiers

U = Result is less than the sample detection limit.

G = The Sample MDC is greater than the requested RL.

MDC = Minimum Detectable Concentration

RL = Reporting Limit

Offsite Locations Surface Water Results				CLP ID:	MC0AD8		MC0AD9	
				Sample Number:	FB-SW-09		FB-SW-10	
				Sampling Location:	SW-09		SW-10	
				Matrix:	Surface Water		Surface Water	
				Units:	pCi/g		pCi/mL	
				Date Sampled:	3/27/2024		3/27/2024	
Parameter	Reference ID	Background Low (pCi/mL)	Preliminary Remediation Goals (PRG)(pCi/mL)	Action (Higher value between background and PRG)	Result	Q	Result	Q
Actinium-227	Ac227	0.0793	-	0.0793	3.17	U	13.3	U
Actinium-228	Ac228	1.57	40000	40000	-2.7	U	15.2	U
Bismuth-210	Bi210		35300	35300				
Bismuth-212	Bi212	0.372	-	0.372	-74.4	U	-101	U
Bismuth-214	Bi214	0.952	-	0.952	33.8	U	64.1	
Lead-210	Pb210	2.14	26.1	26.1	-0.488	U	-0.783	U
Lead-212	Pb212	1.11	-	1.11	-11.6	U	-4.19	U
Lead-214	Pb214	1.02	-	1.02	33		54.3	
Polonium-210	Po210	0.353	1300	1300	0.0791	U	-0.0382	U
Potassium-40	K40	16.8	-	16.8	-116	U	-31	U
Protactinium-231	Pa231	-2.64	-		-259	U	123	U
Radium-226	Ra226	0.952	1.32	1.32	0.548		1.46	
Radium-228	Ra228	1.57	3.28	3.28	-0.058	U	2.9	
Thallium-208	Tl208	0.444	-	0.444	7.05	U	7.92	U
Thorium-228	Th228	1.54	-	1.54	0.666	U	-0.0998	U
Thorium-230	Th230	0.943	1.38	1.38	0.329	U	0.531	U
Thorium-232	Th232	0.841	0.985	0.985	0.329	U	0.0106	U
Thorium-234	Th234	1.8	-	1.8	216	U	145	U
Uranium-234	U234	0.81	2.13	2.13	2.72		2.66	
Uranium-235	U235	0.0183	4.59	4.59	-0.0127	U	0	U
Uranium-238	U238	0.602	1.25	1.25	1.57		2.15	

NOTES:

1. The PRG was calculated by use of the EPA Superfund Radionuclide PRG Calculator for a worker, and a target cancer risk of 1E-4 criteria was used for radionuclides without associated PRG values

pCi/g = Picocuries per gram

PRG = Preliminary Remediation Goals

Q = Qualifiers

U = Result is less than the sample detection limit.

G = The Sample MDC is greater than the requested RL.

MDC = Minimum Detectable Concentration

RL = Reporting Limit

Offsite Locations Soil and Sediment Results				CLP ID:	MC0AE5		MC0AE6	
				Sample Number:	FB-SS-07		FB-SS-08	
				Sampling Location:	SS-07		SS-08	
				Matrix:	Surface Soil		Surface Soil	
				Units:	pCi/g		pCi/g	
				Date Sampled:	3/27/2024		3/27/2024	
Parameter	Reference ID	Background Low (pCi/g)	Preliminary Remediation Goals (PRG)(pCi/g)1	Action (Higher value between background and PRG)	Result	Q	Result	Q
Actinium-227	Ac227	0.0793	-	0.0793	-0.0397	U	-0.216	U
Actinium-228	Ac228	1.57	40000	40000	8.66		2.14	
Bismuth-210	Bi210		35300	35300				
Bismuth-212	Bi212	0.372	-	0.372	1.31	U	0.984	U
Bismuth-214	Bi214	0.952	-	0.952	3.15		1.51	
Lead-210	Pb210	2.14	26.1	26.1	0.762	U	1.2	U
Lead-212	Pb212	1.11	-	1.11	1.98		0.858	
Lead-214	Pb214	1.02	-	1.02	3.55		1.62	
Polonium-210	Po210	0.353	1300	1300	0.746		3.24	
Potassium-40	K40	16.8	-	16.8	2.09		12	
Protactinium-231	Pa231	-2.64	-		2.13	U	0	U
Radium-226	Ra226	0.952	1.32	1.32	3.15		1.51	
Radium-228	Ra228	1.57	3.28	3.28	8.66		2.14	
Thallium-208	Tl208	0.444	-	0.444	0.675		0.429	
Thorium-228	Th228	1.54	-	1.54	1.54		0.655	
Thorium-230	Th230	0.943	1.38	1.38	0.402		1.34	
Thorium-232	Th232	0.841	0.985	0.985	0.1	U	0.69	
Thorium-234	Th234	1.8	-	1.8	2.02	U	2.03	U
Uranium-234	U234	0.81	2.13	2.13	1.56		1.17	
Uranium-235	U235	0.0183	4.59	4.59	0.0259	U	0.0627	U
Uranium-238	U238	0.602	1.25	1.25	0.804		0.908	

NOTES:

1. The PRG was calculated by use of the EPA Superfund Radionuclide PRG Calculator for a worker, and a target cancer risk of 1E-4 criteria was used for radionuclides without associated PRG values

pCi/g = Picocuries per gram

PRG = Preliminary Remediation Goals

Q = Qualifiers

U = Result is less than the sample detection limit.

G = The Sample MDC is greater than the requested RL.

MDC = Minimum Detectable Concentration

RL = Reporting Limit

MC0AG5		MC0AG9	
FB-SD-09		FB-SD-13	
SD-09		SD-13	
Sediment		Sediment	
pCi/g		pCi/g	
3/27/2024		3/29/2024	
Result	Q	Result	Q
0.184	U	-0.449	U
1.35		1.12	
0	U	0.525	U
1.1		2.75	
3.59		2.41	U
1.63		0.792	
1.71		2.95	
1.56		4.64	G
16.8		10.8	
-1.21	U	0	U
1.1		2.75	
1.35		1.12	
0.527		0.392	
1.08		2.24	G
1.47		3.83	G
1.32		0.958	
0.799	U	1.88	U
1.16		1.35	G
0.0183	U	0.203	U
1.1		2.04	G

Containerized Brine Solids Results				CLP ID:	MC0AC9		MC0AG2	
				Sample Number:	FB-BS-04		FB-BS-07	
				Sampling Location:	BS-04		BS-07	
				Matrix:	Brine Solids		Brine Solids	
				Units:	pCi/g		pCi/g	
				Date Sampled:	3/28/2024		3/29/2024	
Parameter	Reference ID	Background Low (pCi/g)	Preliminary Remediation Goals (PRG)(pCi/g) ¹	Action (Higher value between background and PRG)	Result	Q	Result	Q
Actinium-227	Ac227	0.0793	-	0.0793				
Actinium-228	Ac228	1.57	40000	40000				
Bismuth-210	Bi210		35300	35300				
Bismuth-212	Bi212	0.372	-	0.372				
Bismuth-214	Bi214	0.952	-	0.952				
Lead-210	Pb210	2.14	26.1	26.1				
Lead-212	Pb212	1.11	-	1.11				
Lead-214	Pb214	1.02	-	1.02				
Polonium-210	Po210	0.353	1300	1300				
Potassium-40	K40	16.8	-	16.8				
Protactinium-231	Pa231	-2.64	-					
Radium-226	Ra226	0.952	1.32	1.32	392	G	0.243	
Radium-228	Ra228	1.57	3.28	3.28	22.9		-0.0206	U
Thallium-208	Tl208	0.444	-	0.444				
Thorium-228	Th228	1.54	-	1.54	27.1	G	0.0525	U
Thorium-230	Th230	0.943	1.38	1.38	17.2	G	0.279	
Thorium-232	Th232	0.841	0.985	0.985	0.18	UG	0.0651	U
Thorium-234	Th234	1.8	-	1.8				
Uranium-234	U234	0.81	2.13	2.13	0.562	UG	0.0346	U
Uranium-235	U235	0.0183	4.59	4.59	-0.7	UG	0.0161	U
Uranium-238	U238	0.602	1.25	1.25	3.55	UG	0.0129	U

NOTES:

1. The PRG was calculated by use of the EPA Superfund Radionuclide PRG Calculator for a worker, and a target cancer risk of 1E-4 criteria was used for radionuclides without associated PRG values

pCi/g = Picocuries per gram

PRG = Preliminary Remediation Goals

Q = Qualifiers

U = Result is less than the sample detection limit.

G = The Sample MDC is greater than the requested RL.

MDC = Minimum Detectable Concentration

RL = Reporting Limit