

TABLE 4-2
SOIL ANALYTICAL RESULTS
NIAGARA FALLS STORAGE SITE - VICINITY PROPERTY H'

Location Identifier		C1S1-01	C1S1-01	C1S1-01	C1S1-02	C1S1-02
Field Sample Identifier		SO-H-C1S1-01-A	SO-H-C1S1-01-B	SO-H-C1S1-01-C	SO-H-C1S1-02-A	SO-H-C1S1-02-B
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-0.5	0.5-1.5	1.5-2.5	0.0-0.5	0.5-1.5
Date of Sample		12/19/18	12/19/18	12/19/18	12/20/18	12/20/18
Parameter	Units					
RADIONUCLIDES						
RADIUM-226	PCI/G	0.953	0.763	0.778	1.185	0.81
RADIUM-228	PCI/G	1.197	0.936	0.819	0.99	1.086
THORIUM-228	PCI/G	0.732	1.023	0.842	0.932	0.711
THORIUM-230	PCI/G	0.776	0.913	1.034	0.973	0.796
THORIUM-232	PCI/G	0.605	0.715	0.627	1.104	1.347
URANIUM-234	PCI/G	0.887	0.806	0.741	0.84	1.14
URANIUM-235	PCI/G		0.04	0.047		0.05
URANIUM-238	PCI/G	0.93	0.959	0.895	0.985	0.88

The qualifiers shown were assigned during chemistry validation.

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TABLE 4-2
SOIL ANALYTICAL RESULTS
NIAGARA FALLS STORAGE SITE - VICINITY PROPERTY H'

Location Identifier		C1S1-02	C1S1-03	C1S1-03	C1S1-03	C1S1-04
Field Sample Identifier		SO-H-C1S1-02-C	SO-H-C1S1-03-A	SO-H-C1S1-03-B	SO-H-C1S1-03-C	SO-H-C1S1-04-A
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		1.5-2.5	0.0-0.5	0.5-1.5	1.5-2.5	0.0-0.5
Date of Sample		12/20/18	12/19/18	12/19/18	12/19/18	12/20/18
Parameter	Units					
RADIONUCLIDES						
RADIUM-226	PCI/G	0.904	1.008	1.188	2.349	1.06
RADIUM-228	PCI/G	1.009	0.59	0.864	0.636	0.639
THORIUM-228	PCI/G	0.666	0.726	0.832	0.712	0.814
THORIUM-230	PCI/G	0.778	1.156	0.853	1.265	1.835
THORIUM-232	PCI/G	0.78	0.604	0.693	0.7	0.502
URANIUM-234	PCI/G	0.883	0.457	0.567	1.408	0.643
URANIUM-235	PCI/G	0.053			0.041	
URANIUM-238	PCI/G	0.932	0.605	0.677	1.356	0.598

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NIAGARA FALLS STORAGE SITE - VICINITY PROPERTY H'

Location Identifier		C1S1-04	C1S1-04	C1S1-05	C1S1-05	C1S1-05
Field Sample Identifier		SO-H-C1S1-04-B	SO-H-C1S1-04-C	SO-H-C1S1-05-A	SO-H-C1S1-05-B	SO-H-C1S1-05-C
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.5-1.5	1.5-2.5	0.0-0.5	0.5-1.5	1.5-2.5
Date of Sample		12/20/18	12/20/18	12/19/18	12/19/18	12/19/18
Parameter	Units					
RADIONUCLIDES						
RADIUM-226	PCI/G	0.723	5.192	1.161	1.049	11.069
RADIUM-228	PCI/G	0.84	0.692	1.2	0.496	0.828
THORIUM-228	PCI/G	0.642	0.644	0.884	0.792	0.564
THORIUM-230	PCI/G	0.749	1.543	0.708	0.798	2.846
THORIUM-232	PCI/G	0.62	0.626	0.825	0.733	0.607
URANIUM-234	PCI/G	0.486	1.541	0.662	0.654	1.615
URANIUM-235	PCI/G					0.079
URANIUM-238	PCI/G	0.594	1.286	0.674	0.952	1.559

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TABLE 4-2
SOIL ANALYTICAL RESULTS
NIAGARA FALLS STORAGE SITE - VICINITY PROPERTY H'

Location Identifier		C1S1-06	C1S1-06	C1S1-06	C1S1-06	C1S1-06
Field Sample Identifier		SO-H-C1S1-06-A	SO-H-C1S1-06-A-D	SO-H-C1S1-06-B	SO-H-C1S1-06-B-D	SO-H-C1S1-06-C
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-0.5	0.0-0.5	0.5-1.5	0.5-1.5	1.5-2.5
Date of Sample		12/19/18	12/19/18	12/19/18	12/19/18	12/19/18
Parameter	Units		Field Duplicate		Field Duplicate	
RADIONUCLIDES						
RADIUM-226	PCI/G	0.695	0.685	1.066	0.927	1.058
RADIUM-228	PCI/G	0.484	0.433	0.665	0.582	0.457
THORIUM-228	PCI/G	0.428	0.388	0.872	0.686	0.47
THORIUM-230	PCI/G	0.591	0.643	1	0.793	0.881
THORIUM-232	PCI/G	0.398	0.474	1.053	0.823	0.749
URANIUM-234	PCI/G	0.592	0.38	0.885	0.69	0.684 J
URANIUM-235	PCI/G		0.036	0.063		0.021 J
URANIUM-238	PCI/G	0.512	0.454	0.69	0.521	0.742

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SOIL ANALYTICAL RESULTS
NIAGARA FALLS STORAGE SITE - VICINITY PROPERTY H'

Location Identifier		C1S1-06	C1S1-07	C1S1-07	C1S1-07	C1S1-08
Field Sample Identifier		SO-H-C1S1-06-C-D	SO-H-C1S1-07-A	SO-H-C1S1-07-B	SO-H-C1S1-07-C	SO-H-C1S1-08-A
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		1.5-2.5	0.0-0.5	0.5-1.5	1.5-2.5	0.0-0.5
Date of Sample		12/19/18	12/20/18	12/20/18	12/20/18	12/20/18
Parameter	Units	Field Duplicate				
RADIONUCLIDES						
RADIUM-226	PCI/G	5.586	1.163	1.16	0.443	1.108
RADIUM-228	PCI/G	0.825	0.716	1.141	0.755	1.036
THORIUM-228	PCI/G	0.877	0.669	0.792	0.212	0.218
THORIUM-230	PCI/G	1.501	0.981	0.792		0.613
THORIUM-232	PCI/G	0.779	0.553	0.684		0.313
URANIUM-234	PCI/G	1.427 J	0.776	1.237	0.867	0.828
URANIUM-235	PCI/G	0.11		0.086	0.045	
URANIUM-238	PCI/G	1.233	0.61	1.429	0.859	0.896

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TABLE 4-2
SOIL ANALYTICAL RESULTS
NIAGARA FALLS STORAGE SITE - VICINITY PROPERTY H'

Location Identifier		C1S1-08	C1S1-08	C1S1-09	C1S1-09	C1S1-09
Field Sample Identifier		SO-H-C1S1-08-B	SO-H-C1S1-08-C	SO-H-C1S1-09-A	SO-H-C1S1-09-B	SO-H-C1S1-09-C
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.5-1.5	1.5-2.5	0.0-0.5	0.5-1.5	1.5-2.5
Date of Sample		12/20/18	12/20/18	12/19/18	12/19/18	12/19/18
Parameter	Units					
RADIONUCLIDES						
RADIUM-226	PCI/G	0.951	0.831	0.934	1.237	1.089
RADIUM-228	PCI/G	0.913	0.464	0.359	0.888	0.859
THORIUM-228	PCI/G	1.003	0.637		0.755	0.737
THORIUM-230	PCI/G	0.877	0.682	0.447	0.763	0.508
THORIUM-232	PCI/G	0.77	0.637	0.326	0.757	0.771
URANIUM-234	PCI/G	1.374	1.059	0.353	0.588	0.881
URANIUM-235	PCI/G		0.061			0.025
URANIUM-238	PCI/G	1.402	0.925	0.502	0.674	0.792

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SOIL ANALYTICAL RESULTS
NIAGARA FALLS STORAGE SITE - VICINITY PROPERTY H'

Location Identifier		C1S1-10	C1S1-10	C1S1-10	C1S1-11	C1S1-11
Field Sample Identifier		SO-H-C1S1-10-A	SO-H-C1S1-10-B	SO-H-C1S1-10-C	SO-H-C1S1-11-A	SO-H-C1S1-11-B
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-0.5	0.5-1.5	1.5-2.5	0.0-0.5	0.5-1.5
Date of Sample		12/19/18	12/19/18	12/19/18	12/19/18	12/19/18
Parameter	Units					
RADIONUCLIDES						
RADIUM-226	PCI/G	1.698	4.101	1.166	0.924	1.48
RADIUM-228	PCI/G	0.361	1.03	1.087	0.739	1.138
THORIUM-228	PCI/G	0.545	0.758	0.894	0.876	0.709
THORIUM-230	PCI/G	0.497	0.967	0.751	0.837	0.795
THORIUM-232	PCI/G	0.288	0.907	0.898	0.766	0.787
URANIUM-234	PCI/G	0.624	1.174	0.833	0.746	0.909
URANIUM-235	PCI/G				0.071	
URANIUM-238	PCI/G	0.679	1.18	0.758	0.794	0.894

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NIAGARA FALLS STORAGE SITE - VICINITY PROPERTY H'

Location Identifier		C1S1-11	C1S1-12	C1S1-12	C1S1-12	C1S1-13
Field Sample Identifier		SO-H-C1S1-11-C	SO-H-C1S1-12-A	SO-H-C1S1-12-B	SO-H-C1S1-12-C	SO-H-C1S1-13-A
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		1.5-2.5	0.0-0.5	0.5-1.5	1.5-2.5	0.0-0.5
Date of Sample		12/19/18	12/19/18	12/19/18	12/19/18	12/20/18
Parameter	Units					
RADIONUCLIDES						
RADIUM-226	PCI/G	2.054	0.306	0.749	1.31	0.524
RADIUM-228	PCI/G	0.663		0.666	0.962	0.644
THORIUM-228	PCI/G	0.945	0.314	0.896	0.923	
THORIUM-230	PCI/G	1.067	0.243	0.876	0.779	
THORIUM-232	PCI/G	0.829	0.242	1.048	0.901	0.281
URANIUM-234	PCI/G	1.316	0.275 J+	0.623	0.955	0.576
URANIUM-235	PCI/G	0.056		0.038	0.044	
URANIUM-238	PCI/G	1.177	0.43 J+	0.709	1.041	0.597

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SOIL ANALYTICAL RESULTS
NIAGARA FALLS STORAGE SITE - VICINITY PROPERTY H'

Location Identifier		C1S1-13	C1S1-13	C1S1-13	C1S1-13	C1S1-13
Field Sample Identifier		SO-H-C1S1-13-A-D	SO-H-C1S1-13-B	SO-H-C1S1-13-B-D	SO-H-C1S1-13-C	SO-H-C1S1-13-C-D
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-0.5	0.5-1.5	0.5-1.5	1.5-2.5	1.5-2.5
Date of Sample		12/20/18	12/20/18	12/20/18	12/20/18	12/20/18
Parameter	Units	Field Duplicate		Field Duplicate		Field Duplicate
RADIONUCLIDES						
RADIUM-226	PCI/G	0.651	1.057	0.887	0.802	1.137
RADIUM-228	PCI/G	0.392	1.18	0.658	0.575	0.872
THORIUM-228	PCI/G	0.424	0.887	0.941	0.786	0.885
THORIUM-230	PCI/G	0.455	0.544	1.038	1.063	0.843
THORIUM-232	PCI/G	0.795	0.874	0.553	0.621	0.743
URANIUM-234	PCI/G	0.379	0.864	0.855	1.17	0.78
URANIUM-235	PCI/G					
URANIUM-238	PCI/G	0.275	0.748	0.816	1.08	0.906

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SOIL ANALYTICAL RESULTS
NIAGARA FALLS STORAGE SITE - VICINITY PROPERTY H'

Location Identifier		C1S1-14	C1S1-14	C1S1-14	C1S2-01	C1S2-01
Field Sample Identifier		SO-H-C1S1-14-A	SO-H-C1S1-14-B	SO-H-C1S1-14-C	SO-H-C1S2-01-A	SO-H-C1S2-01-B
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-0.5	0.5-1.5	1.5-2.5	0.0-0.5	0.5-1.5
Date of Sample		12/19/18	12/19/18	12/19/18	12/19/18	12/19/18
Parameter	Units					
RADIONUCLIDES						
RADIUM-226	PCI/G	0.244	0.731	1.003	1.436	0.953
RADIUM-228	PCI/G		0.389	0.875	0.907	1.005
THORIUM-228	PCI/G	0.259	0.725	0.639	1.38	0.707
THORIUM-230	PCI/G	0.465	0.733	0.709	1.07	1.261
THORIUM-232	PCI/G	0.173	0.59	0.711	0.733	0.721
URANIUM-234	PCI/G	0.566	0.577	1.309	1.161	1.129
URANIUM-235	PCI/G			0.022 J	0.048	0.028
URANIUM-238	PCI/G	0.57	0.459	1.119	1.112	1.114

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SOIL ANALYTICAL RESULTS
NIAGARA FALLS STORAGE SITE - VICINITY PROPERTY H'

Location Identifier		C1S2-01	C1S2-02	C1S2-02	C1S2-02	C1S2-03
Field Sample Identifier		SO-H-C1S2-01-C	SO-H-C1S2-02-A	SO-H-C1S2-02-B	SO-H-C1S2-02-C	SO-H-C1S2-03-A
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		1.5-2.5	0.0-0.5	0.5-1.5	4.0-5.0	0.0-0.5
Date of Sample		12/19/18	12/19/18	12/19/18	12/19/18	12/21/18
Parameter	Units					
RADIONUCLIDES						
RADIUM-226	PCI/G	0.847	0.942	1.202	1.581	0.896
RADIUM-228	PCI/G	0.844	0.827	1.105	0.713	0.883
THORIUM-228	PCI/G	0.633	1.074	0.964	0.857	0.774
THORIUM-230	PCI/G	1.179	0.967	1.192	0.989	0.629
THORIUM-232	PCI/G	0.969	0.855	0.951	0.925	0.938
URANIUM-234	PCI/G	1.555	0.916	1.28	0.797	0.544
URANIUM-235	PCI/G	0.085		0.052		
URANIUM-238	PCI/G	1.546	0.946	1.23	0.83	0.595

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NIAGARA FALLS STORAGE SITE - VICINITY PROPERTY H'

Location Identifier		C1S2-03	C1S2-03	C1S2-04	C1S2-04	C1S2-04
Field Sample Identifier		SO-H-C1S2-03-B	SO-H-C1S2-03-C	SO-H-C1S2-04-A	SO-H-C1S2-04-A-D	SO-H-C1S2-04-B
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.5-1.5	1.5-2.5	0.0-0.5	0.0-0.5	0.5-1.5
Date of Sample		12/21/18	12/21/18	12/21/18	12/21/18	12/21/18
Parameter	Units				Field Duplicate	
RADIONUCLIDES						
RADIUM-226	PCI/G	0.669	0.821	0.919	0.754	0.93
RADIUM-228	PCI/G	0.943	0.495	1.138	0.94	1.157
THORIUM-228	PCI/G	0.562	0.687	1.096	0.976	1.31
THORIUM-230	PCI/G	0.796	0.729	1.049	1.153	0.914
THORIUM-232	PCI/G	0.678	0.561	1.249	0.929	1.007
URANIUM-234	PCI/G	0.728	0.744	0.868	0.702	0.727
URANIUM-235	PCI/G		0.048			
URANIUM-238	PCI/G	0.542	0.863	0.685	0.776	0.689

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NIAGARA FALLS STORAGE SITE - VICINITY PROPERTY H'

Location Identifier		C1S2-04	C1S2-04	C1S2-04	C1S2-05	C1S2-05
Field Sample Identifier		SO-H-C1S2-04-B-D	SO-H-C1S2-04-C	SO-H-C1S2-04-C-D	SO-H-C1S2-05-A	SO-H-C1S2-05-B
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.5-1.5	1.5-2.5	1.5-2.5	0.0-0.5	0.5-1.5
Date of Sample		12/21/18	12/21/18	12/21/18	12/19/18	12/19/18
Parameter	Units	Field Duplicate		Field Duplicate		
RADIONUCLIDES						
RADIUM-226	PCI/G	0.664	0.894	0.879	2.957	4.573
RADIUM-228	PCI/G	1.334	1.11	0.692	0.705	0.629
THORIUM-228	PCI/G	0.912	0.585	1.37	0.844	0.782
THORIUM-230	PCI/G	0.989	0.941	0.702	1.328	1.903
THORIUM-232	PCI/G	1.222	0.751	0.435	0.874	0.742
URANIUM-234	PCI/G	0.6	0.516	0.829	0.869	1.238
URANIUM-235	PCI/G				0.033	0.055
URANIUM-238	PCI/G	0.763	0.77	0.699	1.092	1.109

The qualifiers shown were assigned during chemistry validation.

J: The result was an estimated quantity, which is the result of associated lab QC outside the lab acceptance criteria.

J+: The result was an estimated quantity, but the result may be biased high due to associated lab QC criteria exceeding upper criteria limits.

J-: The result was an estimated quantity, but the result may be biased low due to associated lab QC criteria exceeding lower criteria limits.

R: The data is rejected.

NOTE: Non-Detected results are shown as blank.

TABLE 4-2
SOIL ANALYTICAL RESULTS
NIAGARA FALLS STORAGE SITE - VICINITY PROPERTY H'

Location Identifier		C1S2-05	C1S2-06	C1S2-06	C1S2-06	C1S2-07
Field Sample Identifier		SO-H-C1S2-05-C	SO-H-C1S2-06-A	SO-H-C1S2-06-B	SO-H-C1S2-06-C	SO-H-C1S2-07-A
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		1.5-2.5	0.0-0.5	0.5-1.5	1.5-2.5	0.0-0.5
Date of Sample		12/19/18	12/21/18	12/21/18	12/21/18	12/21/18
Parameter	Units					
RADIONUCLIDES						
RADIUM-226	PCI/G	6.18	1.141	2.379	0.958	0.935
RADIUM-228	PCI/G	1.163	1.41	1.092	0.989	1.031
THORIUM-228	PCI/G	0.781	0.812	0.657	0.649	1.004
THORIUM-230	PCI/G	1.925 J	1.019	2.047	0.831	1.096
THORIUM-232	PCI/G	0.678	0.879	0.683	0.859	0.895
URANIUM-234	PCI/G	1.226	0.773	1.299	0.991	0.764
URANIUM-235	PCI/G	0.08	0.049	0.076	0.03	
URANIUM-238	PCI/G	1.207	0.634	1.297	0.765	0.792

The qualifiers shown were assigned during chemistry validation.

J: The result was an estimated quantity, which is the result of associated lab QC outside the lab acceptance criteria.

J+: The result was an estimated quantity, but the result may be biased high due to associated lab QC criteria exceeding upper criteria limits.

J-: The result was an estimated quantity, but the result may be biased low due to associated lab QC criteria exceeding lower criteria limits.

R: The data is rejected.

NOTE: Non-Detected results are shown as blank.

TABLE 4-2
SOIL ANALYTICAL RESULTS
NIAGARA FALLS STORAGE SITE - VICINITY PROPERTY H'

Location Identifier		C1S2-07	C1S2-07	C1S2-08	C1S2-08	C1S2-08
Field Sample Identifier		SO-H-C1S2-07-B	SO-H-C1S2-07-C	SO-H-C1S2-08-A	SO-H-C1S2-08-B	SO-H-C1S2-08-C
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.5-1.5	1.5-2.5	0.0-0.5	0.5-1.5	1.5-2.5
Date of Sample		12/21/18	12/21/18	01/23/19	01/23/19	01/23/19
Parameter	Units					
RADIONUCLIDES						
RADIUM-226	PCI/G	1.346	1.125	0.928	1.027	1.419
RADIUM-228	PCI/G	0.995	1.229	0.823	0.499	0.751
THORIUM-228	PCI/G	0.736	1.096	0.878	0.75	0.854
THORIUM-230	PCI/G	1.074	1.039	0.729	0.809	0.882
THORIUM-232	PCI/G	0.76	0.805	0.75	0.737	0.873
URANIUM-234	PCI/G	1.244	1.044	0.807	0.969	1.03
URANIUM-235	PCI/G	0.049	0.049		0.077	0.084
URANIUM-238	PCI/G	1.368	1.153	0.819	1.84	0.841

The qualifiers shown were assigned during chemistry validation.

J: The result was an estimated quantity, which is the result of associated lab QC outside the lab acceptance criteria.

J+: The result was an estimated quantity, but the result may be biased high due to associated lab QC criteria exceeding upper criteria limits.

J-: The result was an estimated quantity, but the result may be biased low due to associated lab QC criteria exceeding lower criteria limits.

R: The data is rejected.

NOTE: Non-Detected results are shown as blank.

TABLE 4-2
SOIL ANALYTICAL RESULTS
NIAGARA FALLS STORAGE SITE - VICINITY PROPERTY H'

Location Identifier		C1S2-09	C1S2-09	C1S2-09	C1S2-10	C1S2-10
Field Sample Identifier		SO-H-C1S2-09-A	SO-H-C1S2-09-B	SO-H-C1S2-09-C	SO-H-C1S2-10-A	SO-H-C1S2-10-A-D
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-0.5	0.5-1.5	1.5-2.5	0.0-0.5	0.0-0.5
Date of Sample		12/21/18	12/21/18	12/21/18	12/16/18	12/16/18
Parameter	Units					Field Duplicate
RADIONUCLIDES						
RADIUM-226	PCI/G	1.186	1.087	0.966	1.61	1.105
RADIUM-228	PCI/G	0.872	1.04	1.132	1.071	0.835
THORIUM-228	PCI/G	1.284	1.066	1.001	0.796	1.532
THORIUM-230	PCI/G	0.746	1.321	0.982	1.282	1.657
THORIUM-232	PCI/G	0.691	1.125	1.108	0.783	1.517
URANIUM-234	PCI/G	1.137	1.46	0.785	0.894	0.892
URANIUM-235	PCI/G		0.072			
URANIUM-238	PCI/G	1.056	1.627	0.674	0.827	0.833

The qualifiers shown were assigned during chemistry validation.

J: The result was an estimated quantity, which is the result of associated lab QC outside the lab acceptance criteria.

J+: The result was an estimated quantity, but the result may be biased high due to associated lab QC criteria exceeding upper criteria limits.

J-: The result was an estimated quantity, but the result may be biased low due to associated lab QC criteria exceeding lower criteria limits.

R: The data is rejected.

NOTE: Non-Detected results are shown as blank.

TABLE 4-2
SOIL ANALYTICAL RESULTS
NIAGARA FALLS STORAGE SITE - VICINITY PROPERTY H'

Location Identifier		C1S2-10	C1S2-10	C1S2-10	C1S2-10	C1S2-11
Field Sample Identifier		SO-H-C1S2-10-B	SO-H-C1S2-10-B-D	SO-H-C1S2-10-C	SO-H-C1S2-10-C-D	SO-H-C1S2-11-A
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.5-1.5	0.5-1.5	1.5-2.5	1.5-2.5	0.0-0.5
Date of Sample		12/16/18	12/16/18	12/16/18	12/16/18	01/23/19
Parameter	Units		Field Duplicate		Field Duplicate	
RADIONUCLIDES						
RADIUM-226	PCI/G	0.907	1.048	0.89	1.151	1.211
RADIUM-228	PCI/G	0.778	1.149	0.59	1.38	0.93
THORIUM-228	PCI/G	0.681	1.089	0.852	0.986	0.829
THORIUM-230	PCI/G	0.54	1.021	1.276	1.228	0.767
THORIUM-232	PCI/G	0.959	1.079	0.639	0.682	0.74
URANIUM-234	PCI/G	1.115	1.817	1.223	1.88	0.956
URANIUM-235	PCI/G		0.031 J			
URANIUM-238	PCI/G	1.136 J	1.989 J	1.134	1.971	0.82

The qualifiers shown were assigned during chemistry validation.

J: The result was an estimated quantity, which is the result of associated lab QC outside the lab acceptance criteria.

J+: The result was an estimated quantity, but the result may be biased high due to associated lab QC criteria exceeding upper criteria limits.

J-: The result was an estimated quantity, but the result may be biased low due to associated lab QC criteria exceeding lower criteria limits.

R: The data is rejected.

NOTE: Non-Detected results are shown as blank.

TABLE 4-2
SOIL ANALYTICAL RESULTS
NIAGARA FALLS STORAGE SITE - VICINITY PROPERTY H'

Location Identifier		C1S2-11	C1S2-11	C1S2-12	C1S2-12	C1S2-12
Field Sample Identifier		SO-H-C1S2-11-B	SO-H-C1S2-11-C	SO-H-C1S2-12-A	SO-H-C1S2-12-B	SO-H-C1S2-12-C
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.5-1.5	1.5-2.5	0.0-0.5	0.5-1.5	1.5-2.5
Date of Sample		01/23/19	01/23/19	12/21/18	12/21/18	12/21/18
Parameter	Units					
RADIONUCLIDES						
RADIUM-226	PCI/G	1.02	0.556	0.811	1.447	0.774
RADIUM-228	PCI/G	1.335	0.855	0.826	1.14	1.261
THORIUM-228	PCI/G	1.22	1.23	0.766	0.958	0.805
THORIUM-230	PCI/G	0.615	0.743	0.815	1.006	0.726
THORIUM-232	PCI/G	0.961	1.04	0.715	0.946	0.845
URANIUM-234	PCI/G	0.808	0.445	1.184	1.032	0.527
URANIUM-235	PCI/G				0.068	
URANIUM-238	PCI/G	0.696	0.585	1.153	0.921	0.744

The qualifiers shown were assigned during chemistry validation.

J: The result was an estimated quantity, which is the result of associated lab QC outside the lab acceptance criteria.

J+: The result was an estimated quantity, but the result may be biased high due to associated lab QC criteria exceeding upper criteria limits.

J-: The result was an estimated quantity, but the result may be biased low due to associated lab QC criteria exceeding lower criteria limits.

R: The data is rejected.

NOTE: Non-Detected results are shown as blank.

TABLE 4-2
SOIL ANALYTICAL RESULTS
NIAGARA FALLS STORAGE SITE - VICINITY PROPERTY H'

Location Identifier		C1S2-13	C1S2-13	C1S2-13	C1S2-14	C1S2-14
Field Sample Identifier		SO-H-C1S2-13-A	SO-H-C1S2-13-B	SO-H-C1S2-13-C	SO-H-C1S2-14-A	SO-H-C1S2-14-A-D
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-0.5	0.5-1.5	1.5-2.5	0.0-0.5	0.0-0.5
Date of Sample		12/19/18	12/19/18	12/19/18	12/19/18	12/19/18
Parameter	Units					Field Duplicate
RADIONUCLIDES						
RADIUM-226	PCI/G	0.718	1.199	1.448	0.892	0.956
RADIUM-228	PCI/G	1.114	0.578	1.153	1.018	1.039
THORIUM-228	PCI/G	0.952	0.824	0.868	0.97	0.713
THORIUM-230	PCI/G	0.975	0.799	0.808	0.804	1.071
THORIUM-232	PCI/G	0.718	0.75	0.677	0.788	0.846
URANIUM-234	PCI/G	0.631	1.14	1.158	1.177	1.18
URANIUM-235	PCI/G					0.023
URANIUM-238	PCI/G	0.749	1.285	1.139	1.126	1.014

The qualifiers shown were assigned during chemistry validation.

J: The result was an estimated quantity, which is the result of associated lab QC outside the lab acceptance criteria.

J+: The result was an estimated quantity, but the result may be biased high due to associated lab QC criteria exceeding upper criteria limits.

J-: The result was an estimated quantity, but the result may be biased low due to associated lab QC criteria exceeding lower criteria limits.

R: The data is rejected.

NOTE: Non-Detected results are shown as blank.

TABLE 4-2
SOIL ANALYTICAL RESULTS
NIAGARA FALLS STORAGE SITE - VICINITY PROPERTY H'

Location Identifier		C1S2-14	C1S2-14	C1S2-14	C1S2-14	C1S2-15
Field Sample Identifier		SO-H-C1S2-14-B	SO-H-C1S2-14-B-D	SO-H-C1S2-14-C	SO-H-C1S2-14-C-D	SO-H-C1S2-15-A
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.5-1.5	0.5-1.5	1.5-2.5	1.5-2.5	0.0-0.5
Date of Sample		12/19/18	12/19/18	12/19/18	12/19/18	12/20/18
Parameter	Units		Field Duplicate		Field Duplicate	
RADIONUCLIDES						
RADIUM-226	PCI/G	0.601	0.756	1.17	1.036	0.705
RADIUM-228	PCI/G	0.54	1.1	1.142	1.033	0.649
THORIUM-228	PCI/G	0.751	0.509	1.05	1.078	0.516
THORIUM-230	PCI/G	1.108	0.684	1.202	0.688	0.699
THORIUM-232	PCI/G	0.733	0.583	0.991	0.722	0.596
URANIUM-234	PCI/G	1.17	1.461	1.075	0.964	0.815
URANIUM-235	PCI/G			0.037		
URANIUM-238	PCI/G	1.291	0.984	0.83	0.876	0.71

The qualifiers shown were assigned during chemistry validation.

J: The result was an estimated quantity, which is the result of associated lab QC outside the lab acceptance criteria.

J+: The result was an estimated quantity, but the result may be biased high due to associated lab QC criteria exceeding upper criteria limits.

J-: The result was an estimated quantity, but the result may be biased low due to associated lab QC criteria exceeding lower criteria limits.

R: The data is rejected.

NOTE: Non-Detected results are shown as blank.

TABLE 4-2
SOIL ANALYTICAL RESULTS
NIAGARA FALLS STORAGE SITE - VICINITY PROPERTY H'

Location Identifier		C1S2-15	C1S2-15	C1S2-16	C1S2-16	C1S2-16
Field Sample Identifier		SO-H-C1S2-15-B	SO-H-C1S2-15-C	SO-H-C1S2-16-A	SO-H-C1S2-16-A-D	SO-H-C1S2-16-B
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.5-1.5	1.5-2.5	0.0-0.5	0.0-0.5	0.5-1.5
Date of Sample		12/20/18	12/20/18	12/19/18	12/19/18	12/19/18
Parameter	Units				Field Duplicate	
RADIONUCLIDES						
RADIUM-226	PCI/G	1.318	0.992	1.117	0.849	1.235
RADIUM-228	PCI/G	1.016	0.667	0.608	1.091	0.692
THORIUM-228	PCI/G	0.907	0.737	0.534	0.637	0.737
THORIUM-230	PCI/G	0.985	1.162	0.558	0.597	0.679
THORIUM-232	PCI/G	0.799	0.912	0.771	0.645	0.737
URANIUM-234	PCI/G	1.302	1.595	0.649	0.621	1.278
URANIUM-235	PCI/G	0.056	0.055			
URANIUM-238	PCI/G	1.312	1.675	0.818	0.913	1.381

The qualifiers shown were assigned during chemistry validation.

J: The result was an estimated quantity, which is the result of associated lab QC outside the lab acceptance criteria.

J+: The result was an estimated quantity, but the result may be biased high due to associated lab QC criteria exceeding upper criteria limits.

J-: The result was an estimated quantity, but the result may be biased low due to associated lab QC criteria exceeding lower criteria limits.

R: The data is rejected.

NOTE: Non-Detected results are shown as blank.

TABLE 4-2
SOIL ANALYTICAL RESULTS
NIAGARA FALLS STORAGE SITE - VICINITY PROPERTY H'

Location Identifier		C1S2-16	C1S2-16	C1S2-16	C1S3-01	C1S3-01
Field Sample Identifier		SO-H-C1S2-16-B-D	SO-H-C1S2-16-C	SO-H-C1S2-16-C-D	SO-H-C1S3-01-A	SO-H-C1S3-01-B
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.5-1.5	1.5-2.5	1.5-2.5	0.0-0.5	0.5-1.5
Date of Sample		12/19/18	12/19/18	12/19/18	12/19/18	12/19/18
Parameter	Units	Field Duplicate		Field Duplicate		
RADIONUCLIDES						
RADIUM-226	PCI/G	1.228	0.871	0.62	1.05	0.884
RADIUM-228	PCI/G	0.917	0.569	0.543	0.738	0.606
THORIUM-228	PCI/G	0.865	0.713	0.563	1.251	0.547
THORIUM-230	PCI/G	1.071	0.89	0.932	1.123	0.663
THORIUM-232	PCI/G	0.844	0.693	0.598	0.849	0.912
URANIUM-234	PCI/G	1.482	1.574	1.327	0.749	0.456
URANIUM-235	PCI/G	0.038				
URANIUM-238	PCI/G	1.372	1.042	1.411	0.727	0.586

The qualifiers shown were assigned during chemistry validation.

J: The result was an estimated quantity, which is the result of associated lab QC outside the lab acceptance criteria.

J+: The result was an estimated quantity, but the result may be biased high due to associated lab QC criteria exceeding upper criteria limits.

J-: The result was an estimated quantity, but the result may be biased low due to associated lab QC criteria exceeding lower criteria limits.

R: The data is rejected.

NOTE: Non-Detected results are shown as blank.

TABLE 4-2
SOIL ANALYTICAL RESULTS
NIAGARA FALLS STORAGE SITE - VICINITY PROPERTY H'

Location Identifier		C1S3-01	C1S3-02	C1S3-02	C1S3-02	C1S3-02
Field Sample Identifier		SO-H-C1S3-01-C	SO-H-C1S3-02-A	SO-H-C1S3-02-A-D	SO-H-C1S3-02-B	SO-H-C1S3-02-B-D
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		2.0-3.0	0.0-0.5	0.0-0.5	0.5-1.5	0.5-1.5
Date of Sample		12/19/18	12/19/18	12/19/18	12/19/18	12/19/18
Parameter	Units			Field Duplicate		Field Duplicate
RADIONUCLIDES						
RADIUM-226	PCI/G	0.995	0.711	0.901	0.878	0.886
RADIUM-228	PCI/G	1.354	1.109	0.624	1.152	0.982
THORIUM-228	PCI/G	0.94	0.867	0.724	0.746	0.928
THORIUM-230	PCI/G	1.082	1.035	0.732	0.627	0.691
THORIUM-232	PCI/G	1.285	0.937	1.381	0.897	0.685
URANIUM-234	PCI/G	0.949	0.74	0.767	0.694	0.87
URANIUM-235	PCI/G	0.05			0.034	0.029
URANIUM-238	PCI/G	1.04	0.742	0.856	0.765	0.74

The qualifiers shown were assigned during chemistry validation.

J: The result was an estimated quantity, which is the result of associated lab QC outside the lab acceptance criteria.

J+: The result was an estimated quantity, but the result may be biased high due to associated lab QC criteria exceeding upper criteria limits.

J-: The result was an estimated quantity, but the result may be biased low due to associated lab QC criteria exceeding lower criteria limits.

R: The data is rejected.

NOTE: Non-Detected results are shown as blank.

TABLE 4-2
SOIL ANALYTICAL RESULTS
NIAGARA FALLS STORAGE SITE - VICINITY PROPERTY H'

Location Identifier		C1S3-02	C1S3-02	C1S3-03	C1S3-03	C1S3-03
Field Sample Identifier		SO-H-C1S3-02-C	SO-H-C1S3-02-C-D	SO-H-C1S3-03-A	SO-H-C1S3-03-B	SO-H-C1S3-03-C
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		1.5-2.5	1.5-2.5	0.0-0.5	0.5-1.5	1.5-2.5
Date of Sample		12/19/18	12/19/18	12/19/18	12/19/18	12/19/18
Parameter	Units		Field Duplicate			
RADIONUCLIDES						
RADIUM-226	PCI/G	0.693	0.613	1.139	0.759	1.068
RADIUM-228	PCI/G	0.614	0.433	0.911	0.964	0.711
THORIUM-228	PCI/G	0.686	0.72	0.813	0.581	0.917
THORIUM-230	PCI/G	0.682	0.55	0.715	2.041	1.096
THORIUM-232	PCI/G	0.595	0.7	0.637	0.656	0.769
URANIUM-234	PCI/G	0.641	0.582	0.867	0.791	0.896
URANIUM-235	PCI/G	0.028				0.033 J
URANIUM-238	PCI/G	0.737	0.624	0.735	0.839	1.018

The qualifiers shown were assigned during chemistry validation.

J: The result was an estimated quantity, which is the result of associated lab QC outside the lab acceptance criteria.

J+: The result was an estimated quantity, but the result may be biased high due to associated lab QC criteria exceeding upper criteria limits.

J-: The result was an estimated quantity, but the result may be biased low due to associated lab QC criteria exceeding lower criteria limits.

R: The data is rejected.

NOTE: Non-Detected results are shown as blank.

TABLE 4-2
SOIL ANALYTICAL RESULTS
NIAGARA FALLS STORAGE SITE - VICINITY PROPERTY H'

Location Identifier		C1S3-04	C1S3-04	C1S3-04	C1S3-05	C1S3-05
Field Sample Identifier		SO-H-C1S3-04-A	SO-H-C1S3-04-B	SO-H-C1S3-04-C	SO-H-C1S3-05-A	SO-H-C1S3-05-A-D
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-0.5	0.5-1.5	1.5-2.5	0.0-0.5	0.0-0.5
Date of Sample		12/19/18	12/19/18	12/19/18	12/19/18	12/19/18
Parameter	Units					Field Duplicate
RADIONUCLIDES						
RADIUM-226	PCI/G	0.794	0.92	0.908	0.855	0.999
RADIUM-228	PCI/G	0.994	0.784	0.535	0.71	0.728
THORIUM-228	PCI/G	0.927	0.985	R	0.931	0.777
THORIUM-230	PCI/G	1.581	1.333	R	1.148	0.737
THORIUM-232	PCI/G	0.781	0.859	R	1.098	0.899
URANIUM-234	PCI/G	0.804	0.901	1.236	0.501	0.64
URANIUM-235	PCI/G	0.044	0.023 J			
URANIUM-238	PCI/G	0.89	0.724	1.187	0.602	0.613

The qualifiers shown were assigned during chemistry validation.

J: The result was an estimated quantity, which is the result of associated lab QC outside the lab acceptance criteria.

J+: The result was an estimated quantity, but the result may be biased high due to associated lab QC criteria exceeding upper criteria limits.

J-: The result was an estimated quantity, but the result may be biased low due to associated lab QC criteria exceeding lower criteria limits.

R: The data is rejected.

NOTE: Non-Detected results are shown as blank.

TABLE 4-2
SOIL ANALYTICAL RESULTS
NIAGARA FALLS STORAGE SITE - VICINITY PROPERTY H'

Location Identifier		C1S3-05	C1S3-05	C1S3-05	C1S3-05	C1S3-06
Field Sample Identifier		SO-H-C1S3-05-B	SO-H-C1S3-05-B-D	SO-H-C1S3-05-C	SO-H-C1S3-05-C-D	SO-H-C1S3-06-A
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.5-1.5	0.5-1.5	1.5-2.5	1.5-2.5	0.0-0.5
Date of Sample		12/19/18	12/19/18	12/19/18	12/19/18	12/19/18
Parameter	Units		Field Duplicate		Field Duplicate	
RADIONUCLIDES						
RADIUM-226	PCI/G	1.141	0.946	0.941	1.017	0.947
RADIUM-228	PCI/G	1.07	0.825	0.871	1.061	0.672
THORIUM-228	PCI/G	0.695	0.793	0.799	0.823	0.775
THORIUM-230	PCI/G	0.625	0.603	0.812	0.921	0.899
THORIUM-232	PCI/G	0.671	0.924	0.602	0.65	0.985
URANIUM-234	PCI/G	1.681	1.502	1.074	1.415	0.818
URANIUM-235	PCI/G			0.054	0.072	0.061
URANIUM-238	PCI/G	1.939	1.666	1.167	1.404	0.839

The qualifiers shown were assigned during chemistry validation.

J: The result was an estimated quantity, which is the result of associated lab QC outside the lab acceptance criteria.

J+: The result was an estimated quantity, but the result may be biased high due to associated lab QC criteria exceeding upper criteria limits.

J-: The result was an estimated quantity, but the result may be biased low due to associated lab QC criteria exceeding lower criteria limits.

R: The data is rejected.

NOTE: Non-Detected results are shown as blank.

TABLE 4-2
SOIL ANALYTICAL RESULTS
NIAGARA FALLS STORAGE SITE - VICINITY PROPERTY H'

Location Identifier		C1S3-06	C1S3-06	C1S3-07	C1S3-07	C1S3-07
Field Sample Identifier		SO-H-C1S3-06-B	SO-H-C1S3-06-C	SO-H-C1S3-07-A	SO-H-C1S3-07-B	SO-H-C1S3-07-C
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.5-1.5	1.5-2.5	0.0-0.5	0.5-1.5	1.5-2.5
Date of Sample		12/19/18	12/19/18	12/19/18	12/19/18	12/19/18
Parameter	Units					
RADIONUCLIDES						
RADIUM-226	PCI/G	1.167	1.129	1.001	2.864	0.748
RADIUM-228	PCI/G	1.282	1.083	0.633	0.657	0.921
THORIUM-228	PCI/G	0.692	0.788	1.002	0.603	0.779
THORIUM-230	PCI/G	1.657	0.836	0.836	0.859	
THORIUM-232	PCI/G	0.983	0.861	1.153	0.607	0.54
URANIUM-234	PCI/G	0.839	0.89	0.702	1.576	1.289
URANIUM-235	PCI/G	0.041			0.067	
URANIUM-238	PCI/G	0.83	1.137	0.647	1.258	1.187

The qualifiers shown were assigned during chemistry validation.

J: The result was an estimated quantity, which is the result of associated lab QC outside the lab acceptance criteria.

J+: The result was an estimated quantity, but the result may be biased high due to associated lab QC criteria exceeding upper criteria limits.

J-: The result was an estimated quantity, but the result may be biased low due to associated lab QC criteria exceeding lower criteria limits.

R: The data is rejected.

NOTE: Non-Detected results are shown as blank.

TABLE 4-2
SOIL ANALYTICAL RESULTS
NIAGARA FALLS STORAGE SITE - VICINITY PROPERTY H'

Location Identifier		C1S3-08	C1S3-08	C1S3-08	C1S3-09	C1S3-09
Field Sample Identifier		SO-H-C1S3-08-A	SO-H-C1S3-08-B	SO-H-C1S3-08-C	SO-H-C1S3-09-A	SO-H-C1S3-09-B
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-0.5	0.5-1.5	1.5-2.5	0.0-0.5	0.5-1.5
Date of Sample		12/19/18	12/19/18	12/19/18	12/19/18	12/19/18
Parameter	Units					
RADIONUCLIDES						
RADIUM-226	PCI/G	0.729	1.402	1.04	0.825	0.883
RADIUM-228	PCI/G	1.095	0.965	0.732	1.263	1.21
THORIUM-228	PCI/G	0.755	0.695	0.915	1.162	0.709
THORIUM-230	PCI/G	0.716	0.835	0.636	0.863	0.717
THORIUM-232	PCI/G	0.653	0.705	0.694	1.304	0.703
URANIUM-234	PCI/G	0.826	0.893	1.051	0.653	0.766
URANIUM-235	PCI/G				0.035	0.042
URANIUM-238	PCI/G	0.762	0.934	1.11	0.637	0.583

The qualifiers shown were assigned during chemistry validation.

J: The result was an estimated quantity, which is the result of associated lab QC outside the lab acceptance criteria.

J+: The result was an estimated quantity, but the result may be biased high due to associated lab QC criteria exceeding upper criteria limits.

J-: The result was an estimated quantity, but the result may be biased low due to associated lab QC criteria exceeding lower criteria limits.

R: The data is rejected.

NOTE: Non-Detected results are shown as blank.

TABLE 4-2
SOIL ANALYTICAL RESULTS
NIAGARA FALLS STORAGE SITE - VICINITY PROPERTY H'

Location Identifier		C1S3-09	C1S3-10	C1S3-10	C1S3-10	C1S3-10
Field Sample Identifier		SO-H-C1S3-09-C	SO-H-C1S3-10-A	SO-H-C1S3-10-A-D	SO-H-C1S3-10-B	SO-H-C1S3-10-B-D
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		1.5-2.5	0.0-0.5	0.0-0.5	0.5-1.5	0.5-1.5
Date of Sample		12/19/18	12/19/18	12/19/18	12/19/18	12/19/18
Parameter	Units			Field Duplicate		Field Duplicate
RADIONUCLIDES						
RADIUM-226	PCI/G	1.454	0.991	1.184	0.839	0.995
RADIUM-228	PCI/G	0.591	1.288	0.542	0.754	0.647
THORIUM-228	PCI/G	1.171	0.951	0.831	0.838	0.859
THORIUM-230	PCI/G	1.142	0.997	1.079	0.923	0.929
THORIUM-232	PCI/G	1.16	0.943	1.028	0.948	1.25
URANIUM-234	PCI/G	1.391	0.896 J	0.743 J	R	0.976 J
URANIUM-235	PCI/G	0.044			R	0.054 J
URANIUM-238	PCI/G	1.319	0.638 J	0.842 J	R	0.886 J

The qualifiers shown were assigned during chemistry validation.

J: The result was an estimated quantity, which is the result of associated lab QC outside the lab acceptance criteria.

J+: The result was an estimated quantity, but the result may be biased high due to associated lab QC criteria exceeding upper criteria limits.

J-: The result was an estimated quantity, but the result may be biased low due to associated lab QC criteria exceeding lower criteria limits.

R: The data is rejected.

NOTE: Non-Detected results are shown as blank.

TABLE 4-2
SOIL ANALYTICAL RESULTS
NIAGARA FALLS STORAGE SITE - VICINITY PROPERTY H'

Location Identifier		C1S3-10	C1S3-10	C1S3-11	C1S3-11	C1S3-11
Field Sample Identifier		SO-H-C1S3-10-C	SO-H-C1S3-10-C-D	SO-H-C1S3-11-A	SO-H-C1S3-11-B	SO-H-C1S3-11-C
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		1.5-2.5	1.5-2.5	0.0-0.5	0.5-1.5	1.5-2.5
Date of Sample		12/19/18	12/19/18	12/19/18	12/19/18	12/19/18
Parameter	Units		Field Duplicate			
RADIONUCLIDES						
RADIUM-226	PCI/G	1.15	1.047	0.797	1.956	2.389
RADIUM-228	PCI/G	0.69	0.94	1.381	0.968	0.649
THORIUM-228	PCI/G	0.779	0.957	0.924	0.902	0.884
THORIUM-230	PCI/G	0.852	0.513	0.868	0.856	0.999
THORIUM-232	PCI/G	0.818	0.623	1.069	1.133	1.026
URANIUM-234	PCI/G	0.829 J	1.201 J	0.723	2.078	1.667
URANIUM-235	PCI/G					0.049
URANIUM-238	PCI/G	0.873 J	1.286 J	0.897	2.108	1.73

The qualifiers shown were assigned during chemistry validation.

J: The result was an estimated quantity, which is the result of associated lab QC outside the lab acceptance criteria.

J+: The result was an estimated quantity, but the result may be biased high due to associated lab QC criteria exceeding upper criteria limits.

J-: The result was an estimated quantity, but the result may be biased low due to associated lab QC criteria exceeding lower criteria limits.

R: The data is rejected.

NOTE: Non-Detected results are shown as blank.

TABLE 4-2
SOIL ANALYTICAL RESULTS
NIAGARA FALLS STORAGE SITE - VICINITY PROPERTY H'

Location Identifier		C1S3-12	C1S3-12	C1S3-12	C1S3-13	C1S3-13
Field Sample Identifier		SO-H-C1S3-12-A	SO-H-C1S3-12-B	SO-H-C1S3-12-C	SO-H-C1S3-13-A	SO-H-C1S3-13-B
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-0.5	0.5-1.5	1.5-2.5	0.0-0.5	0.5-1.5
Date of Sample		12/19/18	12/19/18	12/19/18	12/19/18	12/19/18
Parameter	Units					
RADIONUCLIDES						
RADIUM-226	PCI/G	1.332	1.278	1.137	0.92	0.913
RADIUM-228	PCI/G	0.949	1.375	1.255	0.889	1.084
THORIUM-228	PCI/G	0.885	0.943	0.939	0.781	0.795
THORIUM-230	PCI/G	1.161	1.019	1.051	1.43	1.019
THORIUM-232	PCI/G	0.948	0.779	1.105	0.835	0.776
URANIUM-234	PCI/G	1.012	1.414	1.252	0.864	0.888
URANIUM-235	PCI/G	0.045	0.095	0.074		
URANIUM-238	PCI/G	1.105	1.317	1.259	0.663	0.862

The qualifiers shown were assigned during chemistry validation.

J: The result was an estimated quantity, which is the result of associated lab QC outside the lab acceptance criteria.

J+: The result was an estimated quantity, but the result may be biased high due to associated lab QC criteria exceeding upper criteria limits.

J-: The result was an estimated quantity, but the result may be biased low due to associated lab QC criteria exceeding lower criteria limits.

R: The data is rejected.

NOTE: Non-Detected results are shown as blank.

TABLE 4-2
SOIL ANALYTICAL RESULTS
NIAGARA FALLS STORAGE SITE - VICINITY PROPERTY H'

Location Identifier		C1S3-13	C1S3-14	C1S3-14	C1S3-14	C1S3-14
Field Sample Identifier		SO-H-C1S3-13-C	SO-H-C1S3-14-A	SO-H-C1S3-14-A-D	SO-H-C1S3-14-B	SO-H-C1S3-14-B-D
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		1.5-2.5	0.0-0.5	0.0-0.5	0.5-1.5	0.5-1.5
Date of Sample		12/19/18	12/21/18	12/21/18	12/21/18	12/21/18
Parameter	Units			Field Duplicate		Field Duplicate
RADIONUCLIDES						
RADIUM-226	PCI/G	1.215	0.983	1.123	0.834	1.288
RADIUM-228	PCI/G	0.98	1.313	1.418	0.998	0.753
THORIUM-228	PCI/G	0.657	0.65	0.836	0.91	0.987
THORIUM-230	PCI/G	1.043	0.905	0.8	1.019	0.884
THORIUM-232	PCI/G	1.235	1.254	0.991	0.675	0.778
URANIUM-234	PCI/G	0.931	0.694	0.77	1.4	1.423
URANIUM-235	PCI/G				0.044	
URANIUM-238	PCI/G	1.018	0.763	0.774	1.289	1.322

The qualifiers shown were assigned during chemistry validation.

J: The result was an estimated quantity, which is the result of associated lab QC outside the lab acceptance criteria.

J+: The result was an estimated quantity, but the result may be biased high due to associated lab QC criteria exceeding upper criteria limits.

J-: The result was an estimated quantity, but the result may be biased low due to associated lab QC criteria exceeding lower criteria limits.

R: The data is rejected.

NOTE: Non-Detected results are shown as blank.

TABLE 4-2
SOIL ANALYTICAL RESULTS
NIAGARA FALLS STORAGE SITE - VICINITY PROPERTY H'

Location Identifier		C1S3-14	C1S3-14	C1S4-01	C1S4-01	C1S4-01
Field Sample Identifier		SO-H-C1S3-14-C	SO-H-C1S3-14-C-D	SO-H-C1S4-01-A	SO-H-C1S4-01-B	SO-H-C1S4-01-C
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		1.5-2.5	1.5-2.5	0.0-0.5	0.5-1.5	1.5-2.5
Date of Sample		12/21/18	12/21/18	12/19/18	12/19/18	12/19/18
Parameter	Units		Field Duplicate			
RADIONUCLIDES						
RADIUM-226	PCI/G	1.26	0.988	0.815	0.669	0.711
RADIUM-228	PCI/G	0.867	0.952	0.771	0.563	1.231
THORIUM-228	PCI/G	0.66	0.806	0.927	0.771	0.71
THORIUM-230	PCI/G	0.941	1.194	0.855	0.854	0.995
THORIUM-232	PCI/G	0.971	0.762	0.799	0.801	0.81
URANIUM-234	PCI/G	1.023	1.099	0.406	0.62	0.712
URANIUM-235	PCI/G	0.047				
URANIUM-238	PCI/G	1.28	1.094	0.627	0.719	0.706

The qualifiers shown were assigned during chemistry validation.

J: The result was an estimated quantity, which is the result of associated lab QC outside the lab acceptance criteria.

J+: The result was an estimated quantity, but the result may be biased high due to associated lab QC criteria exceeding upper criteria limits.

J-: The result was an estimated quantity, but the result may be biased low due to associated lab QC criteria exceeding lower criteria limits.

R: The data is rejected.

NOTE: Non-Detected results are shown as blank.

TABLE 4-2
SOIL ANALYTICAL RESULTS
NIAGARA FALLS STORAGE SITE - VICINITY PROPERTY H'

Location Identifier		C1S4-02	C1S4-02	C1S4-02	C1S4-03	C1S4-03
Field Sample Identifier		SO-H-C1S4-02-A	SO-H-C1S4-02-B	SO-H-C1S4-02-C	SO-H-C1S4-03-A	SO-H-C1S4-03-B
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-0.5	0.5-1.5	1.5-2.5	0.0-0.5	0.5-1.5
Date of Sample		12/19/18	12/19/18	12/19/18	12/19/18	12/19/18
Parameter	Units					
RADIONUCLIDES						
RADIUM-226	PCI/G	0.768	1.228	1.216	0.898	0.882
RADIUM-228	PCI/G	0.331	0.543	0.9	1.153	0.647
THORIUM-228	PCI/G	0.39	0.552	0.934	1.316	0.583
THORIUM-230	PCI/G	0.252	0.653	0.961	0.952	0.77
THORIUM-232	PCI/G	0.577	0.484	0.688	0.85	0.509
URANIUM-234	PCI/G	0.565	0.8	0.839	0.791	0.596
URANIUM-235	PCI/G					
URANIUM-238	PCI/G	0.613	0.707	0.839	0.802	0.564

The qualifiers shown were assigned during chemistry validation.

J: The result was an estimated quantity, which is the result of associated lab QC outside the lab acceptance criteria.

J+: The result was an estimated quantity, but the result may be biased high due to associated lab QC criteria exceeding upper criteria limits.

J-: The result was an estimated quantity, but the result may be biased low due to associated lab QC criteria exceeding lower criteria limits.

R: The data is rejected.

NOTE: Non-Detected results are shown as blank.

TABLE 4-2
SOIL ANALYTICAL RESULTS
NIAGARA FALLS STORAGE SITE - VICINITY PROPERTY H'

Location Identifier		C1S4-03	C1S4-04	C1S4-04	C1S4-04	C1S4-04
Field Sample Identifier		SO-H-C1S4-03-C	SO-H-C1S4-04-A	SO-H-C1S4-04-A-D	SO-H-C1S4-04-B	SO-H-C1S4-04-B-D
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		1.5-2.5	0.0-0.5	0.0-0.5	0.5-1.5	0.5-1.5
Date of Sample		12/19/18	12/19/18	12/19/18	12/19/18	12/19/18
Parameter	Units			Field Duplicate		Field Duplicate
RADIONUCLIDES						
RADIUM-226	PCI/G	0.655	0.532	1.083	1.896	1.742
RADIUM-228	PCI/G	0.747	0.358		0.725	0.512
THORIUM-228	PCI/G	0.735	0.697	0.799	0.616	0.564
THORIUM-230	PCI/G	0.973	0.617	0.837	1.639	1.17
THORIUM-232	PCI/G	0.963	0.578	0.67	0.788	0.688
URANIUM-234	PCI/G	0.737	0.648	0.415	1.151	0.928
URANIUM-235	PCI/G			0.042		
URANIUM-238	PCI/G	0.68	0.703	0.639	1.077	0.868

The qualifiers shown were assigned during chemistry validation.

J: The result was an estimated quantity, which is the result of associated lab QC outside the lab acceptance criteria.

J+: The result was an estimated quantity, but the result may be biased high due to associated lab QC criteria exceeding upper criteria limits.

J-: The result was an estimated quantity, but the result may be biased low due to associated lab QC criteria exceeding lower criteria limits.

R: The data is rejected.

NOTE: Non-Detected results are shown as blank.

TABLE 4-2
SOIL ANALYTICAL RESULTS
NIAGARA FALLS STORAGE SITE - VICINITY PROPERTY H'

Location Identifier		C1S4-04	C1S4-04	C1S4-05	C1S4-05	C1S4-05
Field Sample Identifier		SO-H-C1S4-04-C	SO-H-C1S4-04-C-D	SO-H-C1S4-05-A	SO-H-C1S4-05-A-D	SO-H-C1S4-05-B
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		1.5-2.5	1.5-2.5	0.0-0.5	0.0-0.5	0.5-1.5
Date of Sample		12/19/18	12/19/18	12/19/18	12/19/18	12/19/18
Parameter	Units		Field Duplicate		Field Duplicate	
RADIONUCLIDES						
RADIUM-226	PCI/G	0.605	0.879	0.85	0.841	1.312
RADIUM-228	PCI/G	0.44	0.721	1.223	0.961	1.284
THORIUM-228	PCI/G	0.878	0.537	0.755	0.868	0.819
THORIUM-230	PCI/G	0.866	0.589	0.586	0.559	0.806
THORIUM-232	PCI/G	0.808	0.628	0.633	0.673	0.865
URANIUM-234	PCI/G	0.657	0.502	0.606	0.698	1.07
URANIUM-235	PCI/G					
URANIUM-238	PCI/G	0.507	0.858	0.715	0.597	1.226

The qualifiers shown were assigned during chemistry validation.

J: The result was an estimated quantity, which is the result of associated lab QC outside the lab acceptance criteria.

J+: The result was an estimated quantity, but the result may be biased high due to associated lab QC criteria exceeding upper criteria limits.

J-: The result was an estimated quantity, but the result may be biased low due to associated lab QC criteria exceeding lower criteria limits.

R: The data is rejected.

NOTE: Non-Detected results are shown as blank.

TABLE 4-2
SOIL ANALYTICAL RESULTS
NIAGARA FALLS STORAGE SITE - VICINITY PROPERTY H'

Location Identifier		C1S4-05	C1S4-05	C1S4-05	C1S4-06	C1S4-06
Field Sample Identifier		SO-H-C1S4-05-B-D	SO-H-C1S4-05-C	SO-H-C1S4-05-C-D	SO-H-C1S4-06-A	SO-H-C1S4-06-B
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.5-1.5	1.5-2.5	1.5-2.5	0.0-0.5	0.5-1.5
Date of Sample		12/19/18	12/19/18	12/19/18	12/19/18	12/19/18
Parameter	Units	Field Duplicate		Field Duplicate		
RADIONUCLIDES						
RADIUM-226	PCI/G	1.283	1.124	1.031	0.563	6.089
RADIUM-228	PCI/G	1.289	0.987	0.611	0.632	0.821
THORIUM-228	PCI/G	0.71	0.829	0.626	0.634	0.875
THORIUM-230	PCI/G	0.887	0.967	0.727	0.77	1.702
THORIUM-232	PCI/G	0.965	0.786	0.719	0.527	0.656
URANIUM-234	PCI/G	1.262	0.882	0.815	0.584	8.252
URANIUM-235	PCI/G					0.292
URANIUM-238	PCI/G	1.089	1.106	0.956	0.676	8.023

The qualifiers shown were assigned during chemistry validation.

J: The result was an estimated quantity, which is the result of associated lab QC outside the lab acceptance criteria.

J+: The result was an estimated quantity, but the result may be biased high due to associated lab QC criteria exceeding upper criteria limits.

J-: The result was an estimated quantity, but the result may be biased low due to associated lab QC criteria exceeding lower criteria limits.

R: The data is rejected.

NOTE: Non-Detected results are shown as blank.

TABLE 4-2
SOIL ANALYTICAL RESULTS
NIAGARA FALLS STORAGE SITE - VICINITY PROPERTY H'

Location Identifier		C1S4-06	C1S4-07	C1S4-07	C1S4-07	C1S4-08
Field Sample Identifier		SO-H-C1S4-06-C	SO-H-C1S4-07-A	SO-H-C1S4-07-B	SO-H-C1S4-07-C	SO-H-C1S4-08-A
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		1.5-2.5	0.0-0.5	0.5-1.5	1.5-2.5	0.0-0.5
Date of Sample		12/19/18	12/19/18	12/19/18	12/19/18	12/19/18
Parameter	Units					
RADIONUCLIDES						
RADIUM-226	PCI/G	5.729	0.993	2.029	1.19	0.877
RADIUM-228	PCI/G	0.62	0.679	0.556	0.772	0.514
THORIUM-228	PCI/G	0.594	0.868	0.83	1.046	0.731
THORIUM-230	PCI/G	0.962	0.773	2.93	0.954	0.649
THORIUM-232	PCI/G	0.617	0.811	1.023	1.002	0.666
URANIUM-234	PCI/G	6.184	0.505	1.041	1.346	0.526
URANIUM-235	PCI/G	0.211			0.064	
URANIUM-238	PCI/G	6.129	0.568	0.939	1.202	0.499

The qualifiers shown were assigned during chemistry validation.

J: The result was an estimated quantity, which is the result of associated lab QC outside the lab acceptance criteria.

J+: The result was an estimated quantity, but the result may be biased high due to associated lab QC criteria exceeding upper criteria limits.

J-: The result was an estimated quantity, but the result may be biased low due to associated lab QC criteria exceeding lower criteria limits.

R: The data is rejected.

NOTE: Non-Detected results are shown as blank.

TABLE 4-2
SOIL ANALYTICAL RESULTS
NIAGARA FALLS STORAGE SITE - VICINITY PROPERTY H'

Location Identifier		C1S4-08	C1S4-08	C1S4-09	C1S4-09	C1S4-09
Field Sample Identifier		SO-H-C1S4-08-B	SO-H-C1S4-08-C	SO-H-C1S4-09-A	SO-H-C1S4-09-A-D	SO-H-C1S4-09-B
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.5-1.5	1.5-2.5	0.0-0.5	0.0-0.5	0.5-1.5
Date of Sample		12/19/18	12/19/18	12/19/18	12/19/18	12/19/18
Parameter	Units				Field Duplicate	
RADIONUCLIDES						
RADIUM-226	PCI/G	0.806	1.967	1.093	0.702	0.99
RADIUM-228	PCI/G		0.775	0.747	0.971	0.943
THORIUM-228	PCI/G	0.891	0.879	0.989	0.892	0.724
THORIUM-230	PCI/G	0.89	0.74	0.777	0.941	0.942
THORIUM-232	PCI/G	0.757	0.63	1.109	1.109	1.053
URANIUM-234	PCI/G	1.459	2.081	0.6	0.88	0.795
URANIUM-235	PCI/G		0.086			
URANIUM-238	PCI/G	1.527	1.938	0.652	0.65	1.17

The qualifiers shown were assigned during chemistry validation.

J: The result was an estimated quantity, which is the result of associated lab QC outside the lab acceptance criteria.

J+: The result was an estimated quantity, but the result may be biased high due to associated lab QC criteria exceeding upper criteria limits.

J-: The result was an estimated quantity, but the result may be biased low due to associated lab QC criteria exceeding lower criteria limits.

R: The data is rejected.

NOTE: Non-Detected results are shown as blank.

TABLE 4-2
SOIL ANALYTICAL RESULTS
NIAGARA FALLS STORAGE SITE - VICINITY PROPERTY H'

Location Identifier		C1S4-09	C1S4-09	C1S4-09	C1S4-10	C1S4-10
Field Sample Identifier		SO-H-C1S4-09-B-D	SO-H-C1S4-09-C	SO-H-C1S4-09-C-D	SO-H-C1S4-10-A	SO-H-C1S4-10-B
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.5-1.5	1.5-2.5	1.5-2.5	0.0-0.5	0.5-1.5
Date of Sample		12/19/18	12/19/18	12/19/18	12/19/18	12/19/18
Parameter	Units	Field Duplicate		Field Duplicate		
RADIONUCLIDES						
RADIUM-226	PCI/G	0.55	1.531	1.579	0.751	1.022
RADIUM-228	PCI/G	1.537	0.59	1.092	0.913	0.535
THORIUM-228	PCI/G	1.007	0.713	0.906	0.763	0.632
THORIUM-230	PCI/G	1.277	0.745	1.067	0.684	0.215
THORIUM-232	PCI/G	0.988	0.757	0.71	0.518	
URANIUM-234	PCI/G	1.172	2.168	2.073	0.475	0.821
URANIUM-235	PCI/G			0.095		
URANIUM-238	PCI/G	1.209	2.437	2.245	0.581	0.758

The qualifiers shown were assigned during chemistry validation.

J: The result was an estimated quantity, which is the result of associated lab QC outside the lab acceptance criteria.

J+: The result was an estimated quantity, but the result may be biased high due to associated lab QC criteria exceeding upper criteria limits.

J-: The result was an estimated quantity, but the result may be biased low due to associated lab QC criteria exceeding lower criteria limits.

R: The data is rejected.

NOTE: Non-Detected results are shown as blank.

TABLE 4-2
SOIL ANALYTICAL RESULTS
NIAGARA FALLS STORAGE SITE - VICINITY PROPERTY H'

Location Identifier		C1S4-10	C1S4-11	C1S4-11	C1S4-11	C1S4-12
Field Sample Identifier		SO-H-C1S4-10-C	SO-H-C1S4-11-A	SO-H-C1S4-11-B	SO-H-C1S4-11-C	SO-H-C1S4-12-A
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		1.5-2.5	0.0-0.5	0.5-1.5	1.5-2.5	0.0-0.5
Date of Sample		12/19/18	12/19/18	12/19/18	12/19/18	12/19/18
Parameter	Units					
RADIONUCLIDES						
RADIUM-226	PCI/G	1.168	0.912	1.169	1.149	0.764
RADIUM-228	PCI/G	0.663	0.649	0.698	1.454	0.4
THORIUM-228	PCI/G	1.085	0.876	1.026	0.976	0.775
THORIUM-230	PCI/G	0.961	0.764	1.095	0.933	0.66
THORIUM-232	PCI/G	0.973	0.677	0.953	1.131	0.674
URANIUM-234	PCI/G	2.704	0.704	1.17	1.235	3.793
URANIUM-235	PCI/G	0.11	0.045	0.038		0.069
URANIUM-238	PCI/G	2.567	0.772	1.124	1.004	4.051

The qualifiers shown were assigned during chemistry validation.

J: The result was an estimated quantity, which is the result of associated lab QC outside the lab acceptance criteria.

J+: The result was an estimated quantity, but the result may be biased high due to associated lab QC criteria exceeding upper criteria limits.

J-: The result was an estimated quantity, but the result may be biased low due to associated lab QC criteria exceeding lower criteria limits.

R: The data is rejected.

NOTE: Non-Detected results are shown as blank.

TABLE 4-2
SOIL ANALYTICAL RESULTS
NIAGARA FALLS STORAGE SITE - VICINITY PROPERTY H'

Location Identifier		C1S4-12	C1S4-12	C1S4-13	C1S4-13	C1S4-13
Field Sample Identifier		SO-H-C1S4-12-B	SO-H-C1S4-12-C	SO-H-C1S4-13-A	SO-H-C1S4-13-B	SO-H-C1S4-13-C
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.5-1.5	1.5-2.5	0.0-0.5	0.5-1.5	1.5-2.5
Date of Sample		12/19/18	12/19/18	12/20/18	12/20/18	12/20/18
Parameter	Units					
RADIONUCLIDES						
RADIUM-226	PCI/G	1.113	0.845	0.786	1.026	1.368
RADIUM-228	PCI/G	0.823	0.538	0.811	0.642	0.669
THORIUM-228	PCI/G	0.681	0.815	0.875	0.835	0.894
THORIUM-230	PCI/G	0.896	0.694	1.104	1.191	1.196
THORIUM-232	PCI/G	0.705	0.64	0.587	0.774	0.911
URANIUM-234	PCI/G	0.968	3.478	0.73	1.642	1.707
URANIUM-235	PCI/G		0.068			
URANIUM-238	PCI/G	1.299	3.254	0.741	1.689	1.855

The qualifiers shown were assigned during chemistry validation.

J: The result was an estimated quantity, which is the result of associated lab QC outside the lab acceptance criteria.

J+: The result was an estimated quantity, but the result may be biased high due to associated lab QC criteria exceeding upper criteria limits.

J-: The result was an estimated quantity, but the result may be biased low due to associated lab QC criteria exceeding lower criteria limits.

R: The data is rejected.

NOTE: Non-Detected results are shown as blank.

TABLE 4-2
SOIL ANALYTICAL RESULTS
NIAGARA FALLS STORAGE SITE - VICINITY PROPERTY H'

Location Identifier		C1S4-14	C1S4-14	C1S4-14	C2-01	C2-01
Field Sample Identifier		SO-H-C1S4-14-A	SO-H-C1S4-14-B	SO-H-C1S4-14-C	SO-H-C2-01-A	SO-H-C2-01-A-D
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-0.5	0.5-1.5	1.5-2.5	0.0-0.5	0.0-0.5
Date of Sample		12/20/18	12/20/18	12/20/18	12/19/18	12/19/18
Parameter	Units					Field Duplicate
RADIONUCLIDES						
RADIUM-226	PCI/G	0.772	0.979	0.431	0.48	0.885
RADIUM-228	PCI/G		0.973	0.364	0.564	0.793
THORIUM-228	PCI/G	0.669	0.738	0.544	0.379	0.517
THORIUM-230	PCI/G	0.525	0.895	0.592	0.49	0.922
THORIUM-232	PCI/G	0.467	0.933	0.473	0.489	0.634
URANIUM-234	PCI/G	0.416	0.709	0.497	0.545	0.737
URANIUM-235	PCI/G					0.056
URANIUM-238	PCI/G	0.385	0.606	0.323	0.448	0.59

The qualifiers shown were assigned during chemistry validation.

J: The result was an estimated quantity, which is the result of associated lab QC outside the lab acceptance criteria.

J+: The result was an estimated quantity, but the result may be biased high due to associated lab QC criteria exceeding upper criteria limits.

J-: The result was an estimated quantity, but the result may be biased low due to associated lab QC criteria exceeding lower criteria limits.

R: The data is rejected.

NOTE: Non-Detected results are shown as blank.

TABLE 4-2
SOIL ANALYTICAL RESULTS
NIAGARA FALLS STORAGE SITE - VICINITY PROPERTY H'

Location Identifier		C2-01	C2-01	C2-01	C2-01	C2-02
Field Sample Identifier		SO-H-C2-01-B	SO-H-C2-01-B-D	SO-H-C2-01-C	SO-H-C2-01-C-D	SO-H-C2-02-A
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.5-1.5	0.5-1.5	1.5-2.5	1.5-2.5	0.0-0.5
Date of Sample		12/19/18	12/19/18	12/19/18	12/19/18	12/19/18
Parameter	Units		Field Duplicate		Field Duplicate	
RADIONUCLIDES						
RADIUM-226	PCI/G	0.774	0.851	0.517	0.782	0.954
RADIUM-228	PCI/G	0.439	0.871	0.399	0.626	0.993
THORIUM-228	PCI/G	0.748	0.433	0.63	0.581	0.572
THORIUM-230	PCI/G	0.587	0.281	0.85	0.81	0.581
THORIUM-232	PCI/G	0.444	0.667	0.757	0.478	0.577
URANIUM-234	PCI/G	0.616	0.683	0.679	0.588	0.674
URANIUM-235	PCI/G		0.044		0.034	
URANIUM-238	PCI/G	0.526	0.618	0.563	0.612	0.585

The qualifiers shown were assigned during chemistry validation.

J: The result was an estimated quantity, which is the result of associated lab QC outside the lab acceptance criteria.

J+: The result was an estimated quantity, but the result may be biased high due to associated lab QC criteria exceeding upper criteria limits.

J-: The result was an estimated quantity, but the result may be biased low due to associated lab QC criteria exceeding lower criteria limits.

R: The data is rejected.

NOTE: Non-Detected results are shown as blank.

TABLE 4-2
SOIL ANALYTICAL RESULTS
NIAGARA FALLS STORAGE SITE - VICINITY PROPERTY H'

Location Identifier		C2-02	C2-02	C2-03	C2-03	C2-03
Field Sample Identifier		SO-H-C2-02-B	SO-H-C2-02-C	SO-H-C2-03-A	SO-H-C2-03-B	SO-H-C2-03-C
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.5-1.5	1.5-2.5	0.0-0.5	0.5-1.5	1.5-2.5
Date of Sample		12/19/18	12/19/18	12/19/18	12/19/18	12/19/18
Parameter	Units					
RADIONUCLIDES						
RADIUM-226	PCI/G	0.75	0.57	0.878	0.767	0.87
RADIUM-228	PCI/G	0.834	0.761	0.888	0.54	0.527
THORIUM-228	PCI/G	0.57	0.833	0.73	0.628	0.537
THORIUM-230	PCI/G	0.776	0.832	0.674	0.512	0.713
THORIUM-232	PCI/G	0.7	0.63	0.617	0.517	0.557
URANIUM-234	PCI/G	0.603	0.66	0.781	0.624	0.558
URANIUM-235	PCI/G	0.034				
URANIUM-238	PCI/G	0.646	0.549	0.635	0.602	0.715

The qualifiers shown were assigned during chemistry validation.

J: The result was an estimated quantity, which is the result of associated lab QC outside the lab acceptance criteria.

J+: The result was an estimated quantity, but the result may be biased high due to associated lab QC criteria exceeding upper criteria limits.

J-: The result was an estimated quantity, but the result may be biased low due to associated lab QC criteria exceeding lower criteria limits.

R: The data is rejected.

NOTE: Non-Detected results are shown as blank.

TABLE 4-2
SOIL ANALYTICAL RESULTS
NIAGARA FALLS STORAGE SITE - VICINITY PROPERTY H'

Location Identifier		C2-04	C2-04	C2-04	C2-05	C2-05
Field Sample Identifier		SO-H-C2-04-A	SO-H-C2-04-B	SO-H-C2-04-C	SO-H-C2-05-A	SO-H-C2-05-B
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-0.5	0.5-1.5	1.5-2.5	0.0-0.5	0.5-1.5
Date of Sample		12/19/18	12/19/18	12/19/18	12/19/18	12/19/18
Parameter	Units					
RADIONUCLIDES						
RADIUM-226	PCI/G	0.751	0.807	1.016	0.77	1.036
RADIUM-228	PCI/G	0.365	0.804	0.962	0.656	0.913
THORIUM-228	PCI/G	0.591	0.729	0.679	0.573	0.853
THORIUM-230	PCI/G	0.621	0.78	0.812	0.609	0.762
THORIUM-232	PCI/G	0.342	0.822	0.677	0.649	0.972
URANIUM-234	PCI/G	0.653	0.442	0.659	0.532	0.75
URANIUM-235	PCI/G					
URANIUM-238	PCI/G	0.767	0.312	0.753	0.501	0.665

The qualifiers shown were assigned during chemistry validation.

J: The result was an estimated quantity, which is the result of associated lab QC outside the lab acceptance criteria.

J+: The result was an estimated quantity, but the result may be biased high due to associated lab QC criteria exceeding upper criteria limits.

J-: The result was an estimated quantity, but the result may be biased low due to associated lab QC criteria exceeding lower criteria limits.

R: The data is rejected.

NOTE: Non-Detected results are shown as blank.

TABLE 4-2
SOIL ANALYTICAL RESULTS
NIAGARA FALLS STORAGE SITE - VICINITY PROPERTY H'

Location Identifier		C2-05	C2-06	C2-06	C2-06	C2-07
Field Sample Identifier		SO-H-C2-05-C	SO-H-C2-06-A	SO-H-C2-06-B	SO-H-C2-06-C	SO-H-C2-07-A
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		1.5-2.5	0.0-0.5	0.5-1.5	1.5-2.5	0.0-0.5
Date of Sample		12/19/18	12/19/18	12/19/18	12/19/18	12/19/18
Parameter	Units					
RADIONUCLIDES						
RADIUM-226	PCI/G	0.671	0.831	0.815	1.073	0.692
RADIUM-228	PCI/G	0.568	0.948	0.928	0.652	
THORIUM-228	PCI/G	0.72	0.662	0.696	0.779	0.381
THORIUM-230	PCI/G	1.193	0.87	0.598	1.099	0.434
THORIUM-232	PCI/G	0.967	0.806	0.482	0.662	
URANIUM-234	PCI/G	0.915	0.535	0.728	0.82	0.484
URANIUM-235	PCI/G	0.049	0.037	0.018 J		
URANIUM-238	PCI/G	0.895	0.636	0.76	0.821	0.55

The qualifiers shown were assigned during chemistry validation.

J: The result was an estimated quantity, which is the result of associated lab QC outside the lab acceptance criteria.

J+: The result was an estimated quantity, but the result may be biased high due to associated lab QC criteria exceeding upper criteria limits.

J-: The result was an estimated quantity, but the result may be biased low due to associated lab QC criteria exceeding lower criteria limits.

R: The data is rejected.

NOTE: Non-Detected results are shown as blank.

TABLE 4-2
SOIL ANALYTICAL RESULTS
NIAGARA FALLS STORAGE SITE - VICINITY PROPERTY H'

Location Identifier		C2-07	C2-07	C2-08	C2-08	C2-08
Field Sample Identifier		SO-H-C2-07-B	SO-H-C2-07-C	SO-H-C2-08-A	SO-H-C2-08-B	SO-H-C2-08-C
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.5-1.5	3.5-4.5	0.0-0.5	0.5-1.5	1.5-2.5
Date of Sample		12/19/18	12/19/18	12/20/18	12/20/18	12/20/18
Parameter	Units					
RADIONUCLIDES						
RADIUM-226	PCI/G	0.774	0.679	0.516	0.761	0.943
RADIUM-228	PCI/G	0.557		0.574	0.882	0.887
THORIUM-228	PCI/G	0.324		0.858	0.824	0.614
THORIUM-230	PCI/G	0.452	0.436	1.049	0.812	0.874
THORIUM-232	PCI/G	0.434	0.198	0.699	0.649	0.572
URANIUM-234	PCI/G	0.421	0.746	0.489	0.704	0.647
URANIUM-235	PCI/G		0.04			0.059
URANIUM-238	PCI/G	0.518	0.864	0.589	0.691	0.643

The qualifiers shown were assigned during chemistry validation.

J: The result was an estimated quantity, which is the result of associated lab QC outside the lab acceptance criteria.

J+: The result was an estimated quantity, but the result may be biased high due to associated lab QC criteria exceeding upper criteria limits.

J-: The result was an estimated quantity, but the result may be biased low due to associated lab QC criteria exceeding lower criteria limits.

R: The data is rejected.

NOTE: Non-Detected results are shown as blank.

TABLE 4-2
SOIL ANALYTICAL RESULTS
NIAGARA FALLS STORAGE SITE - VICINITY PROPERTY H'

Location Identifier		C2-09	C2-09	C2-09	C2-10	C2-10
Field Sample Identifier		SO-H-C2-09-A	SO-H-C2-09-B	SO-H-C2-09-C	SO-H-C2-10-A	SO-H-C2-10-B
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-0.5	0.5-1.5	1.5-2.5	0.0-0.5	0.5-1.5
Date of Sample		12/20/18	12/20/18	12/20/18	12/19/18	12/19/18
Parameter	Units					
RADIONUCLIDES						
RADIUM-226	PCI/G	0.774	0.806	0.89	0.623	0.896
RADIUM-228	PCI/G	0.794	1.024	0.923	0.509	0.914
THORIUM-228	PCI/G	0.74	0.705	1.012	0.817	0.903
THORIUM-230	PCI/G	0.656	0.604	0.386	0.879	0.999
THORIUM-232	PCI/G	0.588	0.61	0.58	0.495	1.068
URANIUM-234	PCI/G	0.625	0.543	0.608	0.632	0.588
URANIUM-235	PCI/G					
URANIUM-238	PCI/G	0.646	0.563	0.676	0.652	0.501

The qualifiers shown were assigned during chemistry validation.

J: The result was an estimated quantity, which is the result of associated lab QC outside the lab acceptance criteria.

J+: The result was an estimated quantity, but the result may be biased high due to associated lab QC criteria exceeding upper criteria limits.

J-: The result was an estimated quantity, but the result may be biased low due to associated lab QC criteria exceeding lower criteria limits.

R: The data is rejected.

NOTE: Non-Detected results are shown as blank.

TABLE 4-2
SOIL ANALYTICAL RESULTS
NIAGARA FALLS STORAGE SITE - VICINITY PROPERTY H'

Location Identifier		C2-10	C2-11	C2-11	C2-11	C2-12
Field Sample Identifier		SO-H-C2-10-C	SO-H-C2-11-A	SO-H-C2-11-B	SO-H-C2-11-C	SO-H-C2-12-A
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		1.5-2.5	0.0-0.5	0.5-1.5	2.5-3.5	0.0-0.5
Date of Sample		12/19/18	12/19/18	12/19/18	12/19/18	12/19/18
Parameter	Units					
RADIONUCLIDES						
RADIUM-226	PCI/G	0.762	0.844	0.9	0.74	0.904
RADIUM-228	PCI/G	0.631	0.592	0.946	1.152	0.886
THORIUM-228	PCI/G	0.834	0.663	1.073	1.039	0.99
THORIUM-230	PCI/G	0.891	1.043	0.999	1.184	1.262
THORIUM-232	PCI/G	0.544	0.72	0.775	1.224	0.809
URANIUM-234	PCI/G	0.47	0.674	0.747	0.604	1.394
URANIUM-235	PCI/G		0.043	0.022 J		0.079
URANIUM-238	PCI/G	0.646	0.656	0.66	0.58	1.321

The qualifiers shown were assigned during chemistry validation.

J: The result was an estimated quantity, which is the result of associated lab QC outside the lab acceptance criteria.

J+: The result was an estimated quantity, but the result may be biased high due to associated lab QC criteria exceeding upper criteria limits.

J-: The result was an estimated quantity, but the result may be biased low due to associated lab QC criteria exceeding lower criteria limits.

R: The data is rejected.

NOTE: Non-Detected results are shown as blank.

TABLE 4-2
SOIL ANALYTICAL RESULTS
NIAGARA FALLS STORAGE SITE - VICINITY PROPERTY H'

Location Identifier		C2-12	C2-12	C2-13	C2-13	C2-13
Field Sample Identifier		SO-H-C2-12-B	SO-H-C2-12-C	SO-H-C2-13-A	SO-H-C2-13-B	SO-H-C2-13-C
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.5-1.5	1.5-2.5	0.0-0.5	0.5-1.5	1.5-2.5
Date of Sample		12/19/18	12/19/18	12/20/18	12/20/18	12/20/18
Parameter	Units					
RADIONUCLIDES						
RADIUM-226	PCI/G	0.805	1.164	1.089	1.369	3.17
RADIUM-228	PCI/G	0.943	0.91	0.582	1.029	0.649
THORIUM-228	PCI/G	0.966	0.835	0.977	0.668	0.659
THORIUM-230	PCI/G	1.088	1.272	0.562	0.738	1.744
THORIUM-232	PCI/G	0.744	0.747	0.687	0.702	0.692
URANIUM-234	PCI/G	1.648	1.459	0.537	0.655	1.65
URANIUM-235	PCI/G					
URANIUM-238	PCI/G	1.953	1.379	0.648	0.708	1.56

The qualifiers shown were assigned during chemistry validation.

J: The result was an estimated quantity, which is the result of associated lab QC outside the lab acceptance criteria.

J+: The result was an estimated quantity, but the result may be biased high due to associated lab QC criteria exceeding upper criteria limits.

J-: The result was an estimated quantity, but the result may be biased low due to associated lab QC criteria exceeding lower criteria limits.

R: The data is rejected.

NOTE: Non-Detected results are shown as blank.

TABLE 4-2
SOIL ANALYTICAL RESULTS
NIAGARA FALLS STORAGE SITE - VICINITY PROPERTY H'

Location Identifier		C2-14	C2-14	C2-14	C2-15	C2-15
Field Sample Identifier		SO-H-C2-14-A	SO-H-C2-14-B	SO-H-C2-14-C	SO-H-C2-15-A	SO-H-C2-15-B
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-0.5	0.5-1.5	1.5-2.5	0.0-0.5	0.5-1.5
Date of Sample		12/20/18	12/20/18	12/20/18	12/20/18	12/20/18
Parameter	Units					
RADIONUCLIDES						
RADIUM-226	PCI/G	1.153	0.989	1.698	0.754	1.045
RADIUM-228	PCI/G	0.621	0.911	0.361	0.503	0.533
THORIUM-228	PCI/G	0.677	0.689	0.816	0.986	0.717
THORIUM-230	PCI/G	0.555	0.672	0.793	1.074	0.974
THORIUM-232	PCI/G	0.223	0.641	0.681	0.917	0.756
URANIUM-234	PCI/G	0.701	0.348	0.889	0.583	0.552
URANIUM-235	PCI/G					
URANIUM-238	PCI/G	0.525	0.347	0.964	0.508	0.544

The qualifiers shown were assigned during chemistry validation.

J: The result was an estimated quantity, which is the result of associated lab QC outside the lab acceptance criteria.

J+: The result was an estimated quantity, but the result may be biased high due to associated lab QC criteria exceeding upper criteria limits.

J-: The result was an estimated quantity, but the result may be biased low due to associated lab QC criteria exceeding lower criteria limits.

R: The data is rejected.

NOTE: Non-Detected results are shown as blank.

TABLE 4-2
SOIL ANALYTICAL RESULTS
NIAGARA FALLS STORAGE SITE - VICINITY PROPERTY H'

Location Identifier		C2-15	C2-16	C2-16	C2-16	C2-17
Field Sample Identifier		SO-H-C2-15-C	SO-H-C2-16-A	SO-H-C2-16-B	SO-H-C2-16-C	SO-H-C2-17-A
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		1.5-2.5	0.0-0.5	0.5-1.5	1.5-2.5	0.0-0.5
Date of Sample		12/20/18	12/20/18	12/20/18	12/20/18	12/19/18
Parameter	Units					
RADIONUCLIDES						
RADIUM-226	PCI/G	0.631	0.661	0.586	0.573	0.229
RADIUM-228	PCI/G	0.685	0.5	0.581	0.527	
THORIUM-228	PCI/G	0.795	0.759	0.338	0.492	0.112
THORIUM-230	PCI/G	0.655	1.007	0.912	0.568	0.365
THORIUM-232	PCI/G	0.653	0.704		0.431	
URANIUM-234	PCI/G	0.434	R	0.498	0.5	0.253
URANIUM-235	PCI/G		R			
URANIUM-238	PCI/G	0.432	R	0.459	0.524	0.275

The qualifiers shown were assigned during chemistry validation.

J: The result was an estimated quantity, which is the result of associated lab QC outside the lab acceptance criteria.

J+: The result was an estimated quantity, but the result may be biased high due to associated lab QC criteria exceeding upper criteria limits.

J-: The result was an estimated quantity, but the result may be biased low due to associated lab QC criteria exceeding lower criteria limits.

R: The data is rejected.

NOTE: Non-Detected results are shown as blank.

TABLE 4-2
SOIL ANALYTICAL RESULTS
NIAGARA FALLS STORAGE SITE - VICINITY PROPERTY H'

Location Identifier		C2-17	C2-17	CP-01	CP-01	CP-01
Field Sample Identifier		SO-H-C2-17-B	SO-H-C2-17-C	SO-H-CP01-A	SO-H-CP01-B	SO-H-CP01-C
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.5-1.5	1.5-2.5	0.0-0.5	0.5-1.5	1.5-2.5
Date of Sample		12/19/18	12/19/18	12/19/18	12/19/18	12/19/18
Parameter	Units					
RADIONUCLIDES						
RADIUM-226	PCI/G	1.599	1.126	0.871	0.713	1.076
RADIUM-228	PCI/G	0.869	1.091	0.751		0.644
THORIUM-228	PCI/G	0.701	0.766	0.919	0.695	1.007
THORIUM-230	PCI/G	1.049	0.77	0.781	0.353	0.842
THORIUM-232	PCI/G	0.7	1.037	0.77		0.78
URANIUM-234	PCI/G	0.812	1.22	0.632	0.571	0.803
URANIUM-235	PCI/G		0.073	0.058		0.058
URANIUM-238	PCI/G	0.815	1.12	0.713	0.688	0.701

The qualifiers shown were assigned during chemistry validation.

J: The result was an estimated quantity, which is the result of associated lab QC outside the lab acceptance criteria.

J+: The result was an estimated quantity, but the result may be biased high due to associated lab QC criteria exceeding upper criteria limits.

J-: The result was an estimated quantity, but the result may be biased low due to associated lab QC criteria exceeding lower criteria limits.

R: The data is rejected.

NOTE: Non-Detected results are shown as blank.

TABLE 4-2
SOIL ANALYTICAL RESULTS
NIAGARA FALLS STORAGE SITE - VICINITY PROPERTY H'

Location Identifier		CP-02	CP-02	CP-02	HOTSPOT-01	HOTSPOT-01
Field Sample Identifier		SO-H-CP02-A	SO-H-CP02-B	SO-H-CP02-C	SO-H-HTSP-01A-A	SO-H-HTSP-01A-B
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-0.5	0.5-1.5	1.5-2.5	0.0-0.5	0.5-1.5
Date of Sample		12/19/18	12/19/18	12/19/18	12/20/18	12/20/18
Parameter	Units					
RADIONUCLIDES						
RADIUM-226	PCI/G	0.598	0.954	1.135	2.853	1.535
RADIUM-228	PCI/G	1.077	1.042	0.83	1.117	1.434
THORIUM-228	PCI/G	0.747	0.526	1.111	1.003	0.813
THORIUM-230	PCI/G	0.964	0.54	0.673	4.099	1.745
THORIUM-232	PCI/G	0.644	0.454	0.82	0.805	0.995
URANIUM-234	PCI/G	0.484	0.95	0.764	0.705	1.381
URANIUM-235	PCI/G	0.101			0.023 J	
URANIUM-238	PCI/G	0.434	0.766	0.744	0.796	1.13

The qualifiers shown were assigned during chemistry validation.

J: The result was an estimated quantity, which is the result of associated lab QC outside the lab acceptance criteria.

J+: The result was an estimated quantity, but the result may be biased high due to associated lab QC criteria exceeding upper criteria limits.

J-: The result was an estimated quantity, but the result may be biased low due to associated lab QC criteria exceeding lower criteria limits.

R: The data is rejected.

NOTE: Non-Detected results are shown as blank.

TABLE 4-2
SOIL ANALYTICAL RESULTS
NIAGARA FALLS STORAGE SITE - VICINITY PROPERTY H'

Location Identifier		HOTSPOT-01	HOTSPOT-02	HOTSPOT-02	HOTSPOT-02	HOTSPOT-02
Field Sample Identifier		SO-H-HTSP-01A-C	SO-H-HTSP-01-A	SO-H-HTSP-01-A-D	SO-H-HTSP-01-B	SO-H-HTSP-01-B-D
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		1.5-2.5	0.0-0.5	0.0-0.5	0.5-1.5	0.5-1.5
Date of Sample		12/20/18	12/19/18	12/19/18	12/19/18	12/19/18
Parameter	Units			Field Duplicate		Field Duplicate
RADIONUCLIDES						
RADIUM-226	PCI/G	1.619	22.638	16.223	143.17	155.15
RADIUM-228	PCI/G	1.195	1.012	0.688		
THORIUM-228	PCI/G	1.125	0.779	0.785	1.282	1.085
THORIUM-230	PCI/G	1.358	13.74 J	26.882 J	210.08	228.693
THORIUM-232	PCI/G	0.965	0.653	0.775	0.726	0.895
URANIUM-234	PCI/G	1.404	0.845	1.223	3.685 J	R
URANIUM-235	PCI/G				0.076	R
URANIUM-238	PCI/G	1.404	1.141	0.905	2.133 J	R

The qualifiers shown were assigned during chemistry validation.

J: The result was an estimated quantity, which is the result of associated lab QC outside the lab acceptance criteria.

J+: The result was an estimated quantity, but the result may be biased high due to associated lab QC criteria exceeding upper criteria limits.

J-: The result was an estimated quantity, but the result may be biased low due to associated lab QC criteria exceeding lower criteria limits.

R: The data is rejected.

NOTE: Non-Detected results are shown as blank.

TABLE 4-2
SOIL ANALYTICAL RESULTS
NIAGARA FALLS STORAGE SITE - VICINITY PROPERTY H'

Location Identifier		HOTSPOT-02	HOTSPOT-02	HOTSPOT-03	HOTSPOT-03	HOTSPOT-03
Field Sample Identifier		SO-H-HTSP-01-C	SO-H-HTSP-01-C-D	SO-H-HTSP-03-A	SO-H-HTSP-03-B	SO-H-HTSP-03-C
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		1.5-2.5	1.5-2.5	0.0-0.5	0.5-1.5	1.5-2.5
Date of Sample		12/19/18	12/19/18	12/21/18	12/21/18	12/21/18
Parameter	Units		Field Duplicate			
RADIONUCLIDES						
RADIUM-226	PCI/G	1.547	1.23	1.547	2.465	1.204
RADIUM-228	PCI/G	1.515	1.046	0.654	0.733	1.106
THORIUM-228	PCI/G	1.001	0.739	0.846	1.098	0.805
THORIUM-230	PCI/G	1.289	0.92	1.624	2.922	1.108
THORIUM-232	PCI/G	0.938	0.769	0.895	1.001	0.858
URANIUM-234	PCI/G	1.804	1.851	1.091	1.346	1.357
URANIUM-235	PCI/G	0.045	0.075		0.085	0.072
URANIUM-238	PCI/G	1.362	1.674	1.131	1.417	1.22

The qualifiers shown were assigned during chemistry validation.

J: The result was an estimated quantity, which is the result of associated lab QC outside the lab acceptance criteria.

J+: The result was an estimated quantity, but the result may be biased high due to associated lab QC criteria exceeding upper criteria limits.

J-: The result was an estimated quantity, but the result may be biased low due to associated lab QC criteria exceeding lower criteria limits.

R: The data is rejected.

NOTE: Non-Detected results are shown as blank.

TABLE 4-2
SOIL ANALYTICAL RESULTS
NIAGARA FALLS STORAGE SITE - VICINITY PROPERTY H'

Location Identifier		HOTSPOT-04	HOTSPOT-04	HOTSPOT-04	HOTSPOT-05	HOTSPOT-05
Field Sample Identifier		SO-H-HTSP-04-A	SO-H-HTSP-04-B	SO-H-HTSP-04-C	SO-H-HTSP-05-A	SO-H-HTSP-05-B
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-0.5	0.5-1.5	1.5-2.5	0.0-0.5	0.5-1.5
Date of Sample		12/21/18	12/21/18	12/21/18	12/21/18	12/21/18
Parameter	Units					
RADIONUCLIDES						
RADIUM-226	PCI/G	3.499	2.64	1.545	5.987	2.966
RADIUM-228	PCI/G	1.006	0.807	1.294	1.276	0.7
THORIUM-228	PCI/G	0.739	0.798	0.786	0.623	0.792
THORIUM-230	PCI/G	1.242	0.957	1.138	1.372	1.305
THORIUM-232	PCI/G	0.715	1.021	0.908	0.794	0.858
URANIUM-234	PCI/G	1.381	1.341	1.313	1.92	1.304
URANIUM-235	PCI/G	0.034	0.042	0.054	0.108	
URANIUM-238	PCI/G	1.601	1.245	1.155	1.704	1.257

The qualifiers shown were assigned during chemistry validation.

J: The result was an estimated quantity, which is the result of associated lab QC outside the lab acceptance criteria.

J+: The result was an estimated quantity, but the result may be biased high due to associated lab QC criteria exceeding upper criteria limits.

J-: The result was an estimated quantity, but the result may be biased low due to associated lab QC criteria exceeding lower criteria limits.

R: The data is rejected.

NOTE: Non-Detected results are shown as blank.

TABLE 4-2
SOIL ANALYTICAL RESULTS
NIAGARA FALLS STORAGE SITE - VICINITY PROPERTY H'

Location Identifier		HOTSPOT-05	HOTSPOT-06	HOTSPOT-06	HOTSPOT-06	HOTSPOT-07
Field Sample Identifier		SO-H-HTSP-05-C	SO-H-HTSP-06-A	SO-H-HTSP-06-B	SO-H-HTSP-06-C	SO-H-HTSP-07-A
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		1.5-2.5	0.0-0.5	0.5-1.5	1.5-2.5	0.0-0.5
Date of Sample		12/21/18	12/21/18	12/21/18	12/21/18	12/21/18
Parameter	Units					
RADIONUCLIDES						
RADIUM-226	PCI/G	2.072	17.203	101.25	2.029	6.69
RADIUM-228	PCI/G	0.745		1.226	0.567	1.367
THORIUM-228	PCI/G	0.851	0.644	0.934	0.733	0.93
THORIUM-230	PCI/G	1.059	7.76	13.853	0.958	2.555
THORIUM-232	PCI/G	0.908	0.702	0.812	0.808	0.799
URANIUM-234	PCI/G	1.148	0.663	1.118 J	1.309	1.757
URANIUM-235	PCI/G	0.024 J			0.027 J	0.092
URANIUM-238	PCI/G	1.117	0.802	0.989 J	1.242	2.242

The qualifiers shown were assigned during chemistry validation.

J: The result was an estimated quantity, which is the result of associated lab QC outside the lab acceptance criteria.

J+: The result was an estimated quantity, but the result may be biased high due to associated lab QC criteria exceeding upper criteria limits.

J-: The result was an estimated quantity, but the result may be biased low due to associated lab QC criteria exceeding lower criteria limits.

R: The data is rejected.

NOTE: Non-Detected results are shown as blank.

TABLE 4-2
SOIL ANALYTICAL RESULTS
NIAGARA FALLS STORAGE SITE - VICINITY PROPERTY H'

Location Identifier		HOTSPOT-07	HOTSPOT-07	HOTSPOT-08	HOTSPOT-08	HOTSPOT-08
Field Sample Identifier		SO-H-HTSP-07-B	SO-H-HTSP-07-C	SO-H-HTSP-08-A	SO-H-HTSP-08-B	SO-H-HTSP-08-C
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.5-1.5	1.5-2.5	0.0-0.5	0.5-1.5	1.5-2.5
Date of Sample		12/21/18	12/21/18	12/21/18	12/21/18	12/21/18
Parameter	Units					
RADIONUCLIDES						
RADIUM-226	PCI/G	4.282	7.189	1.569	0.614	0.587
RADIUM-228	PCI/G	0.902	0.9	0.644	1.21	
THORIUM-228	PCI/G	0.952	1.215	0.789	0.635	0.614
THORIUM-230	PCI/G	2.102	1.639	1.889	0.885	0.845
THORIUM-232	PCI/G	0.704	0.751	0.662	0.849	0.57
URANIUM-234	PCI/G	2.144	2.126	0.651	0.627	0.651
URANIUM-235	PCI/G	0.099	0.055			
URANIUM-238	PCI/G	2.041	1.945	0.707	0.76	0.466

The qualifiers shown were assigned during chemistry validation.

J: The result was an estimated quantity, which is the result of associated lab QC outside the lab acceptance criteria.

J+: The result was an estimated quantity, but the result may be biased high due to associated lab QC criteria exceeding upper criteria limits.

J-: The result was an estimated quantity, but the result may be biased low due to associated lab QC criteria exceeding lower criteria limits.

R: The data is rejected.

NOTE: Non-Detected results are shown as blank.

TABLE 4-2
SOIL ANALYTICAL RESULTS
NIAGARA FALLS STORAGE SITE - VICINITY PROPERTY H'

Location Identifier		HOTSPOT-09	HOTSPOT-09	HOTSPOT-09	HOTSPOT-10	HOTSPOT-10
Field Sample Identifier		SO-H-HTSP-09-A	SO-H-HTSP-09-B	SO-H-HTSP-09-C	SO-H-HTSP-10-A	SO-H-HTSP-10-B
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		0.0-0.5	0.5-1.5	1.5-2.5	0.0-0.5	0.5-1.5
Date of Sample		12/21/18	12/21/18	12/21/18	12/21/18	12/21/18
Parameter	Units					
RADIONUCLIDES						
RADIUM-226	PCI/G	1.431	0.566	0.718	4.025	1.674
RADIUM-228	PCI/G	0.995	0.399	0.435	1.106	0.852
THORIUM-228	PCI/G	0.72	0.67	0.685	0.741	0.783
THORIUM-230	PCI/G	0.854	0.663	0.456	1.812	0.771
THORIUM-232	PCI/G	0.592	0.466	0.661	0.677	0.651
URANIUM-234	PCI/G	1.165	0.559	0.437	1.065	1.525
URANIUM-235	PCI/G					0.065
URANIUM-238	PCI/G	1.073	0.588	0.793	1.287	1.099

The qualifiers shown were assigned during chemistry validation.

J: The result was an estimated quantity, which is the result of associated lab QC outside the lab acceptance criteria.

J+: The result was an estimated quantity, but the result may be biased high due to associated lab QC criteria exceeding upper criteria limits.

J-: The result was an estimated quantity, but the result may be biased low due to associated lab QC criteria exceeding lower criteria limits.

R: The data is rejected.

NOTE: Non-Detected results are shown as blank.

TABLE 4-2
SOIL ANALYTICAL RESULTS
NIAGARA FALLS STORAGE SITE - VICINITY PROPERTY H'

Location Identifier		HOTSPOT-10	HOTSPOT-11	HOTSPOT-11	HOTSPOT-11	HOTSPOT-11
Field Sample Identifier		SO-H-HTSP-10-C	SO-H-HTSP-11-A	SO-H-HTSP-11-A-D	SO-H-HTSP-11-B	SO-H-HTSP-11-B-D
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		1.5-2.5	0.0-0.5	0.0-0.5	0.5-1.5	0.5-1.5
Date of Sample		12/21/18	01/23/19	01/23/19	01/23/19	01/23/19
Parameter	Units			Field Duplicate		Field Duplicate
RADIONUCLIDES						
RADIUM-226	PCI/G	1.297	3.485	3.116	1.137	1.217
RADIUM-228	PCI/G	1.276	0.796	0.905	1.138	1.196
THORIUM-228	PCI/G	0.698	0.94	0.885	0.861	0.795
THORIUM-230	PCI/G	0.827	1.2	1.19	0.596	0.712
THORIUM-232	PCI/G	0.814	0.576	0.839	0.813	0.827
URANIUM-234	PCI/G	0.928	1.02	1.03	0.812	0.902
URANIUM-235	PCI/G		0.085		0.086	0.052
URANIUM-238	PCI/G	1.041	1.19	1.03	1.05	1.06

The qualifiers shown were assigned during chemistry validation.

J: The result was an estimated quantity, which is the result of associated lab QC outside the lab acceptance criteria.

J+: The result was an estimated quantity, but the result may be biased high due to associated lab QC criteria exceeding upper criteria limits.

J-: The result was an estimated quantity, but the result may be biased low due to associated lab QC criteria exceeding lower criteria limits.

R: The data is rejected.

NOTE: Non-Detected results are shown as blank.

TABLE 4-2
SOIL ANALYTICAL RESULTS
NIAGARA FALLS STORAGE SITE - VICINITY PROPERTY H'

Location Identifier		HOTSPOT-11	HOTSPOT-11	HOTSPOT-12	HOTSPOT-12	HOTSPOT-12
Field Sample Identifier		SO-H-HTSP-11-C	SO-H-HTSP-11-C-D	SO-H-HTSP-12-A	SO-H-HTSP-12-B	SO-H-HTSP-12-C
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Depth Interval (ft)		1.5-2.5	1.5-2.5	0.0-0.5	0.5-1.5	1.5-2.5
Date of Sample		01/23/19	01/23/19	01/23/19	01/23/19	01/23/19
Parameter	Units		Field Duplicate			
RADIONUCLIDES						
RADIUM-226	PCI/G	0.74	0.662	8.753	0.984	1.056
RADIUM-228	PCI/G	0.586	0.872	0.973	0.679	0.754
THORIUM-228	PCI/G	0.901	0.887	1.06	1.13	0.933
THORIUM-230	PCI/G	0.766	0.646	1.09	0.993	0.712
THORIUM-232	PCI/G	0.744	0.838	0.866	1.02	0.944
URANIUM-234	PCI/G	0.677	0.663	1.28	0.892	0.705
URANIUM-235	PCI/G			0.066		
URANIUM-238	PCI/G	0.755	0.845	1.3	1.04	0.795

The qualifiers shown were assigned during chemistry validation.

J: The result was an estimated quantity, which is the result of associated lab QC outside the lab acceptance criteria.

J+: The result was an estimated quantity, but the result may be biased high due to associated lab QC criteria exceeding upper criteria limits.

J-: The result was an estimated quantity, but the result may be biased low due to associated lab QC criteria exceeding lower criteria limits.

R: The data is rejected.

NOTE: Non-Detected results are shown as blank.