Table 1
Soil Analytical Results Summary Table - Radioisotopes
Niagara Falls Boulevard Radiological Site
Niagara Falls Boulevard, Niagara Falls, New York
March 2016

	Location No.	N002-SB001			N002-SB001			N002-SB001			N002-SB001			N002-SB001			N002-SB001			N002-SB001		
	RST 3 Sample No.	**N002-SB001-0006-01**			**N002-SB001-0612-01**			**N002-SB001-1218-01**			**N002-SB001-1824-01**			**N002-SB001-2430-01**			**N002-SB001-3036-01**			**N002-SB001-3642-01**		
	Sample Depth (inches)	0-6			6-12			12-18			18-24			24-30			30-36			36-42		
	Sample Matrix	Soil			Soil			Soil			Soil			Soil			Soil			Soil		
	Sample Date	3/2/2016			3/2/2016			3/2/2016			3/2/2016			3/2/2016			3/2/2016			3/2/2016		
	Sample Result	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty
Radioisotope	**[1]EPA SSAL**																					
Actinium-228 (Ac-228)	126,000	ND			ND			ND			ND			ND			ND			ND		
Bismuth-212 (Bi-212)	6,330,000	0.087		2.101	0.189		2.911	2.048		1.995	2.261		2.578	2.290		1.698	1.195		2.577	1.914		1.139
Bismuth-214 (Bi-214)	1,290,000	ND			ND			ND			ND			ND			ND			ND		
Cesium-137 (Cs-137)	11	0.000		0.052	0.003		0.155	0.000		0.034	0.000		0.028	0.000		0.066	0.000		0.042	0.000		0.015
Lead-210 (Pb-210)	418	2.356		17.120	0.880		3.861	-9.972		23.934	0.301		4.165	0.000		27.466	2.478		3.584	6.989		17.824
Lead-212 (Pb-212)	661,000	1.014		0.252	1.414		0.318	1.392		0.300	1.705		0.365	1.358		0.317	1.695		0.371	1.299		0.286
Lead-214 (Pb-214)	7,200,000	ND			ND			ND			ND			ND			ND			ND		
Potassium-40 (K-40)	25.9	18.204		3.442	27.548		5.228	26.354		4.745	29.925		5.721	24.481		4.535	18.195		4.129	21.099		3.929
Radium-226* (Ra-226)	2.48	1.029		0.285	1.410		0.314	1.398		0.282	1.486		0.344	1.453		0.367	1.698		0.428	1.343		0.351
Radium-228 (Ra-228)	15.9	1.668		0.439	1.572		0.442	1.731		0.494	2.299		0.636	1.736		0.497	1.678		0.547	1.129		0.475
Thallium-208 (Tl-208)	2,430,000	0.516		0.139	0.411		0.154	0.381		0.154	0.406		0.183	0.445		0.157	0.363		0.220	0.412		0.149
Thorium-228 (Th-228)	14,100	1.08	N2	0.454	1.07	N2	0.463	0.901	N2	0.451	1.14	N2	0.578	1.54	N2	0.517	1.16	N2	0.426	1.09	N2	0.414
Thorium-230 (Th-230)	2,090	0.833	N2	0.364	0.642	N2	0.333	1.21	N2	0.498	0.956	N2	0.486	0.967	N2	0.383	1.03	N2	0.384	1.20	N2	0.428
Thorium-232 Th-232)	5.12	0.613	N2	0.303	1.01	N2	0.415	1.25	N2	0.509	1.03	N2	0.502	1.07	N2	0.404	0.941	N2	0.363	1.38	N2	0.460
Thorium-234 Th-234)	47,900	2.342		2.847	2.474		2.220	0.000		2.852	1.394		1.955	1.943		2.665	2.497		1.904	1.843		4.213
Uranium-233/234 (U-233/234)	NS	1.12	N2	0.302	0.706	N2	0.222	0.945	N2	0.269	0.838	N2	0.239	0.891	N2	0.267	1.03	N2	0.286	0.729	N2	0.230
Uranium-235/236 (U-235/236)	NS	0.127	N2	0.096	0.089	N2	0.080	0.032	N2	0.066	0.022	N2	0.059	0.158	N2	0.112	0.106	N2	0.090	0.019	N2	0.067
Uranium-235 (U-235)	39.2	0.198		0.135	0.361		0.160	0.007		0.186	0.272		0.299	0.273		0.246	0.094		0.185	0.201		0.154
Uranium-238 (U-238)	3,720	1.02	N2	0.281	0.898	N2	0.258	0.841	N2	0.249	0.897	N2	0.248	1.42	N2	0.363	0.911	N2	0.264	1.13	N2	0.304

	Location No.	N002-SB001			N002-SB002			N002-SB002			N002-SB002			N002-SB002			N002-SB002			N002-SB002		
	RST 3 Sample No.	**N002-SB001-4248-01**			**N002-SB002-0006-01**			**N002-SB002-0612-01**			**N002-SB002-0612-02**			**N002-SB002-1218-01**			**N002-SB002-1824-01**			**N002-SB002-1824-02**		
	Sample Depth (inches)	42-48			0-6			6-12			6-12			12-18			18-24			18-24		
	Sample Matrix	Soil			Soil			Soil			Soil			Soil			Soil			Soil		
	Sample Date	3/2/2016			3/2/2016			3/2/2016			3/2/2016			3/2/2016			3/2/2016			3/2/2016		
	Sample Result	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty
Radioisotope	**[1]EPA SSAL**																					
Actinium-228 (Ac-228)	126,000	ND			ND			ND			ND			ND			ND			ND		
Bismuth-212 (Bi-212)	6,330,000	1.574		1.544	0.033		2.082	3.474		1.735	2.143		1.534	2.067		1.611	1.941		1.475	1.864		1.727
Bismuth-214 (Bi-214)	1,290,000	ND			ND			ND			ND			ND			ND			ND		
Cesium-137 (Cs-137)	11	0.000		0.025	0.025		0.117	0.019		0.142	0.012		0.124	0.000		0.110	0.000		0.051	0.005		0.138
Lead-210 (Pb-210)	418	2.643		3.664	4.593		16.489	0.612		3.403	0.000		20.478	6.567		3.295	0.000		21.685	0.000		19.091
Lead-212 (Pb-212)	661,000	1.406		0.308	1.161		0.258	1.430		0.304	1.179		0.271	1.425		0.314	1.381		0.306	1.358		0.298
Lead-214 (Pb-214)	7,200,000	ND			ND			ND			ND			ND			ND			ND		
Potassium-40 (K-40)	25.9	22.529		4.491	19.801		3.410	24.026		4.605	23.707		4.209	24.813		4.845	23.191		4.745	27.404		4.519
Radium-226* (Ra-226)	2.48	1.460		0.366	1.184		0.269	1.761		0.401	1.251		0.291	1.35		0.361	1.394		0.292	1.517		0.331
Radium-228 (Ra-228)	15.9	1.505		0.531	0.849		0.332	1.461		0.473	1.475		0.410	1.408		0.571	1.949		0.481	1.458		0.495
Thallium-208 (Tl-208)	2,430,000	0.668		0.176	0.310		0.105	0.668		0.204	0.466		0.168	0.624		0.200	0.493		0.168	0.402		0.131
Thorium-228 (Th-228)	14,100	1.29	N2	0.476	1.05	N2	0.393	0.914	N2	0.428	1.12	N2	0.446	1.30	N2	0.551	0.911	N2	0.520	1.11	N2	0.599
Thorium-230 (Th-230)	2,090	0.893	N2	0.361	0.603	N2	0.278	0.710	N2	0.366	1.01	N2	0.402	0.859	N2	0.420	0.381	N2	0.299	1.08	N2	0.540
Thorium-232 Th-232)	5.12	1.06	N2	0.398	0.765	N2	0.313	1.02	N2	0.444	0.874	N2	0.366	0.954	N2	0.445	0.619	N2	0.379	0.922	N2	0.489
Thorium-234 Th-234)	47,900	1.619		1.859	1.133		1.253	1.323		1.658	2.570		2.968	2.974		2.088	0.839		1.656	2.991		3.884
Uranium-233/234 (U-233/234)	NS	0.817	N2	0.238	0.976	N2	0.303	1.04	N2	0.287	1.05	N2	0.293	1.21	N2	0.326	1.10	N2	0.306	1.06	N2	0.295
Uranium-235/236 (U-235/236)	NS	0.051	N2	0.061	0.041	N2	0.084	0.051	N2	0.066	0.077	N2	0.076	0.000	N2	0.072	0.094	N2	0.089	0.056	N2	0.068
Uranium-235 (U-235)	39.2	0.151		0.099	0.180		0.138	0.125		0.149	0.216		0.157	0.127		0.134	0.223		0.159	0.310		0.178
Uranium-238 (U-238)	3,720	1.19	N2	0.303	1.11	N2	0.327	0.978	N2	0.274	1.25	N2	0.327	0.979	N2	0.284	0.851	N2	0.259	1.08	N2	0.299

Notes:

RST 3 - Removal Support Team 3.

No. - Number; ND - Not detected.

Background sampling location.

N2 - The laboratory does not hold The NELAC Institute (TNI) accreditation for this parameter.

pCi/g - picocuries per gram; µg/L - micrograms per liter.

[1]U.S. Environmental Protection Agency (EPA) Site-Specific Action Level (SSAL) values are presented in pCi/g.

Values in red highlighted in yellow equal or exceed the EPA SSAL for the respective radioisotope.

Radium-226* (21-day ingrowth) analyzed by gamma spectroscopy via EPA 901.1 modified (soil only).

Table 1
Soil Analytical Results Summary Table - Radioisotopes
Niagara Falls Boulevard Radiological Site
Niagara Falls Boulevard, Niagara Falls, New York
March 2016

	Location No.	N002-SB002			N002-SB002			N002-SB002			N002-SB002			N002-SB002			N002-SB003			N002-SB003		
	RST 3 Sample No.	**N002-SB002-2430-01**			**N002-SB002-3036-01**			**N002-SB002-3036-02**			**N002-SB002-3642-01**			**N002-SB002-4248-01**			**N002-SB003-0006-1**			**N002-SB003-0612-01**		
	Sample Depth (inches)	24-30			30-36			30-36			36-42			42-48			0-6			6-12		
	Sample Matrix	Soil			Soil			Soil			Soil			Soil			Soil			Soil		
	Sample Date	3/2/2016			3/2/2016			3/2/2016			3/2/2016			3/2/2016			3/3/2016			3/3/2016		
	Sample Result	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty
Radioisotope	**[1]EPA SSAL**																					
Actinium-228 (Ac-228)	126,000	ND			ND			ND			ND			ND			ND			ND		
Bismuth-212 (Bi-212)	6,330,000	3.228		1.960	2.072		1.681	0.915		2.606	2.390		1.395	0.809		2.303	126.930		18.55	9.322		2.611
Bismuth-214 (Bi-214)	1,290,000	ND			ND			ND			ND			ND			ND			ND		
Cesium-137 (Cs-137)	11	0.022		0.163	0.000		0.056	0.010		0.118	0.000		0.048	0.000		0.033	-0.332		0.667	0.143		0.189
Lead-210 (Pb-210)	418	1.193		3.471	0.000		22.651	0.931		3.904	0.412		21.568	1.456		3.658	0.000		56.195	8.995		32.938
Lead-212 (Pb-212)	661,000	1.200		0.297	1.449		0.312	1.106		0.283	1.207		0.272	1.375		0.312	121.340		16.395	8.658		1.278
Lead-214 (Pb-214)	7,200,000	ND			ND			ND			ND			ND			ND			ND		
Potassium-40 (K-40)	25.9	23.426		4.700	20.118		3.775	22.854		4.647	20.459		3.729	20.895		4.206	7.276		5.669	21.208		3.923
Radium-226* (Ra-226)	2.48	1.633		0.380	1.487		0.392	1.817		0.436	1.341		0.312	1.642		0.387	41.197		5.563	2.761		0.531
Radium-228 (Ra-228)	15.9	1.393		0.383	1.313		0.550	1.580		0.494	1.431		0.413	1.648		0.546	123.780		16.772	8.653		1.439
Thallium-208 (Tl-208)	2,430,000	0.464		0.158	0.527		0.157	0.466		0.164	0.462		0.129	0.474		0.178	40.659		5.509	3.166		0.514
Thorium-228 (Th-228)	14,100	1.29	N2	0.464	1.61	N2	0.525	1.84	N2	0.591	1.08	N2	0.429	1.46	N2	0.481	68.6	N2	11.8	7.90	N2	2.45
Thorium-230 (Th-230)	2,090	0.938	N2	0.376	1.20	N2	0.421	0.910	N2	0.382	1.18	N2	0.445	0.934	N2	0.358	23.6	N2	4.57	3.18	N2	1.38
Thorium-232 Th-232)	5.12	1.12	N2	0.411	1.04	N2	0.384	1.05	N2	0.408	0.815	N2	0.359	1.18	N2	0.408	68.6	N2	11.8	6.75	N2	2.15
Thorium-234 Th-234)	47,900	3.652		2.003	0.000		2.553	1.116		1.796	1.946		2.610	0.053		2.548	38.016		12.728	6.253		7.219
Uranium-233/234 (U-233/234)	NS	1.08	N2	0.289	1.49	N2	0.371	1.42	N2	0.386	1.33	N2	0.348	1.23	N2	0.327	34.4	N2	5.92	2.97	N2	0.609
Uranium-235/236 (U-235/236)	NS	0.044	N2	0.063	0.053	N2	0.069	0.158	N2	0.124	0.000	N2	0.072	0.039	N2	0.070	2.07	N2	0.604	0.140	N2	0.105
Uranium-235 (U-235)	39.2	0.224		0.155	0.292		0.147	0.338		0.180	0.197		0.118	0.111		0.160	5.035		1.083	0.650		0.235
Uranium-238 (U-238)	3,720	0.919	N2	0.260	1.09	N2	0.299	1.10	N2	0.326	1.22	N2	0.327	1.13	N2	0.308	37.5	N2	6.44	2.97	N2	0.608

	Location No.	N002-SB003			N002-SB003			N002-SB003			N002-SB003			N002-SB003			N002-SB003			N002-SB004		
	RST 3 Sample No.	**N002-SB003-1218-01**			**N002-SB003-1824-01**			**N002-SB003-2430-01**			**N002-SB003-3036-01**			**N002-SB003-3642-01**			**N002-SB003-4248-01**			**N002-SB004-0006-01**		
	Sample Depth (inches)	12-18			18-24			24-30			30-36			36-42			42-48			0-6		
	Sample Matrix	Soil			Soil			Soil			Soil			Soil			Soil			Soil		
	Sample Date	3/3/2016			3/3/2016			3/3/2016			3/3/2016			3/3/2016			3/3/2016			3/3/2016		
	Sample Result	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty
Radioisotope	**[1]EPA SSAL**																					
Actinium-228 (Ac-228)	126,000	ND			ND			ND			ND			ND			ND			ND		
Bismuth-212 (Bi-212)	6,330,000	3.996		2.951	1.959		2.400	1.083		1.210	0.000		2.957	1.677		0.987	1.614		1.048	100.350		16.789
Bismuth-214 (Bi-214)	1,290,000	ND			ND			ND			ND			ND			ND			ND		
Cesium-137 (Cs-137)	11	0.071		0.190	0.000		0.016	0.000		0.076	0.012		0.167	0.000		0.017	0.000		0.013	0.144		0.606
Lead-210 (Pb-210)	418	0.000		1.498	2.101		19.212	3.001		4.801	0.000		24.882	1.663		3.689	6.871		16.523	25.440		12.619
Lead-212 (Pb-212)	661,000	2.189		0.433	1.660		0.394	1.421		0.362	1.029		0.274	1.353		0.315	1.063		0.251	83.327		11.319
Lead-214 (Pb-214)	7,200,000	ND			ND			ND			ND			ND			ND			ND		
Potassium-40 (K-40)	25.9	26.416		5.151	27.654		4.838	24.155		5.059	20.837		4.163	21.830		4.401	20.644		3.538	1.924		5.739
Radium-226* (Ra-226)	2.48	1.746		0.420	1.161		0.304	1.383		0.396	1.219		0.334	1.467		0.375	1.301		0.304	36.743		5.024
Radium-228 (Ra-228)	15.9	2.603		0.571	1.933		0.485	1.698		0.652	1.028		0.560	0.823		0.626	1.572		0.366	85.232		11.536
Thallium-208 (Tl-208)	2,430,000	0.758		0.232	0.615		0.200	0.408		0.177	0.468		0.102	0.464		0.164	0.543		0.160	28.388		3.898
Thorium-228 (Th-228)	14,100	2.55	N2	0.878	1.16	N2	0.560	1.06	N2	0.407	1.37	N2	0.439	1.64	N2	0.612	1.50	N2	0.572	41.1	N2	7.35
Thorium-230 (Th-230)	2,090	1.43	N2	0.604	0.839	N2	0.453	1.02	N2	0.375	0.849	N2	0.321	0.872	N2	0.411	1.21	N2	0.483	16.0	N2	3.29
Thorium-232 Th-232)	5.12	1.84	N2	0.694	1.84	N2	0.682	1.05	N2	0.378	0.900	N2	0.327	1.19	N2	0.489	0.713	N2	0.357	38.9	N2	6.98
Thorium-234 Th-234)	47,900	1.529		1.643	1.058		3.968	3.739		2.259	0.000		1.752	1.958		2.233	0.681		4.137	27.678		8.285
Uranium-233/234 (U-233/234)	NS	1.21	N2	0.320	1.15	N2	0.314	0.981	N2	0.287	0.875	N2	0.268	1.13	N2	0.305	0.920	N2	0.270	21.3	N2	3.60
Uranium-235/236 (U-235/236)	NS	0.147	N2	0.105	0.049	N2	0.070	0.044	N2	0.072	0.041	N2	0.074	0.052	N2	0.068	0.026	N2	0.069	1.45	N2	0.432
Uranium-235 (U-235)	39.2	0.253		0.280	0.119		0.171	0.333		0.174	0.263		0.154	0.213		0.125	0.097		0.152	4.993		1.044
Uranium-238 (U-238)	3,720	1.21	N2	0.318	0.837	N2	0.255	1.29	N2	0.339	0.907	N2	0.274	0.952	N2	0.273	0.709	N2	0.228	22.0	N2	3.71

Notes:

RST 3 - Removal Support Team 3.

No. - Number; ND - Not detected.

N2 - The laboratory does not hold The NELAC Institute (TNI) accreditation for this parameter.

pCi/g - picocuries per gram; µg/L - micrograms per liter.

[1]U.S. Environmental Protection Agency (EPA) Site-Specific Action Level (SSAL) values are presented in pCi/g.

Values in red highlighted in yellow equal or exceed the EPA SSAL for the respective radioisotope.

Radium-226* (21-day ingrowth) analyzed by gamma spectroscopy via EPA 901.1 modified (soil only).

Table 1
Soil Analytical Results Summary Table - Radioisotopes
Niagara Falls Boulevard Radiological Site
Niagara Falls Boulevard, Niagara Falls, New York
March 2016

	Location No.	N002-SB004			N002-SB004			N002-SB004			N002-SB004			N002-SB004			N002-SB004			N002-SB004		
	RST 3 Sample No.	**N002-SB004-0612-01**			**N002-SB004-1218-01**			**N002-SB004-1824-01**			**N002-SB004-2430-01**			**N002-SB004-3036-01**			**N002-SB004-3642-01**			**N002-SB004-4248-01**		
	Sample Depth (inches)	6-12			12-18			18-24			24-30			30-36			36-42			42-48		
	Sample Matrix	Soil			Soil			Soil			Soil			Soil			Soil			Soil		
	Sample Date	3/3/2016			3/3/2016			3/3/2016			3/3/2016			3/3/2016			3/3/2016			3/3/2016		
	Sample Result	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty
Radioisotope	**[1]EPA SSAL**																					
Actinium-228 (Ac-228)	126,000	ND			ND			ND			ND			ND			ND			ND		
Bismuth-212 (Bi-212)	6,330,000	2.123		1.581	1.033		1.706	1.330		2.328	2.198		1.488	2.208		1.576	2.443		1.447	0.000		1.611
Bismuth-214 (Bi-214)	1,290,000	ND			ND			ND			ND			ND			ND			ND		
Cesium-137 (Cs-137)	11	0.062		0.138	0.000		0.022	0.000		0.075	0.014		0.144	0.000		0.024	0.002		0.122	0.029		0.142
Lead-210 (Pb-210)	418	1.049		3.833	0.652		21.088	3.396		2.677	6.677		21.687	1.160		3.620	0.000		21.132	2.238		3.830
Lead-212 (Pb-212)	661,000	1.945		0.390	1.366		0.308	1.263		0.302	1.179		0.285	1.368		0.314	1.148		0.259	1.241		0.291
Lead-214 (Pb-214)	7,200,000	ND			ND			ND			ND			ND			ND			ND		
Potassium-40 (K-40)	25.9	22.239		4.440	22.258		4.496	19.468		4.154	20.945		4.214	21.865		4.366	23.799		3.998	21.032		4.354
Radium-226* (Ra-226)	2.48	1.310		0.341	1.398		0.339	1.501		0.292	1.260		0.341	1.280		0.361	1.470		0.351	1.367		0.325
Radium-228 (Ra-228)	15.9	1.985		0.580	1.690		0.475	1.216		0.582	1.949		0.493	1.615		0.430	1.181		0.361	1.783		0.596
Thallium-208 (Tl-208)	2,430,000	0.685		0.200	0.470		0.153	0.512		0.157	0.541		0.154	0.379		0.253	0.494		0.139	0.527		0.178
Thorium-228 (Th-228)	14,100	1.51	N2	0.845	1.55	N2	0.691	0.835	N2	0.361	1.18	N2	0.391	1.07	N2	0.429	1.17	N2	0.423	0.867	N2	0.289
Thorium-230 (Th-230)	2,090	0.854	N2	0.574	0.934	N2	0.511	0.776	N2	0.319	0.726	N2	0.286	1.01	N2	0.409	1.11	N2	0.394	0.838	N2	0.275
Thorium-232 Th-232)	5.12	1.52	N2	0.782	0.972	N2	0.508	0.923	N2	0.352	0.916	N2	0.325	0.841	N2	0.366	0.949	N2	0.357	0.856	N2	0.279
Thorium-234 Th-234)	47,900	1.691		2.525	1.162		4.376	1.689		2.353	2.296		2.570	0.724		2.311	1.858		2.893	0.107		2.889
Uranium-233/234 (U-233/234)	NS	0.871	N2	0.257	0.800	N2	0.244	0.921	N2	0.254	1.10	N2	0.330	0.883	N2	0.256	1.15	N2	0.323	0.552	N2	0.197
Uranium-235/236 (U-235/236)	NS	0.142	N2	0.104	0.093	N2	0.083	0.098	N2	0.080	0.090	N2	0.096	0.121	N2	0.095	0.127	N2	0.104	0.066	N2	0.070
Uranium-235 (U-235)	39.2	0.322		0.274	0.092		0.141	0.139		0.125	0.199		0.173	0.227		0.229	0.120		0.168	0.229		0.159
Uranium-238 (U-238)	3,720	1.06	N2	0.291	0.985	N2	0.277	0.998	N2	0.267	1.45	N2	0.394	0.930	N2	0.263	1.15	N2	0.323	0.867	N2	0.259

	Location No.	N002-SB005			N002-SB005			N002-SB005			N002-SB005			N002-SB005			N002-SB005			N002-SB005		
	RST 3 Sample No.	**N002-SB005-0006-01**			**N002-SB005-0612-01**			**N002-SB005-1218-01**			**N002-SB005-1824-01**			**N002-SB005-2430-01**			**N002-SB005-3036-01**			**N002-SB005-3642-01**		
	Sample Depth (inches)	0-6			6-12			12-18			18-24			24-30			30-36			36-42		
	Sample Matrix	Soil			Soil			Soil			Soil			Soil			Soil			Soil		
	Sample Date	3/2/2016			3/2/2016			3/2/2016			3/2/2016			3/2/2016			3/2/2016			3/2/2016		
	Sample Result	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty
Radioisotope	**[1]EPA SSAL**																					
Actinium-228 (Ac-228)	126,000	ND			ND			ND			ND			ND			ND			ND		
Bismuth-212 (Bi-212)	6,330,000	474.08		64.621	6.409		1.925	3.900		1.567	1.615		1.314	3.279		1.791	0.000		1.227	2.609		1.544
Bismuth-214 (Bi-214)	1,290,000	ND			ND			ND			ND			ND			ND			ND		
Cesium-137 (Cs-137)	11	0.000		0.271	0.000		0.045	0.000		0.024	0.013		0.172	0.045		0.174	0.000		0.016	0.000		0.010
Lead-210 (Pb-210)	418	118.930		105.750	3.701		3.962	0.000		24.636	0.550		3.758	0.000		25.806	2.047		2.980	2.460		17.133
Lead-212 (Pb-212)	661,000	427.880		63.180	4.532		0.736	1.903		0.367	1.918		0.374	1.099		0.284	1.208		0.273	0.954		0.238
Lead-214 (Pb-214)	7,200,000	ND			ND			ND			ND			ND			ND			ND		
Potassium-40 (K-40)	25.9	4.737		3.825	26.785		4.976	28.730		4.822	24.541		4.674	17.371		3.527	20.807		4.168	20.928		3.796
Radium-226* (Ra-226)	2.48	125.600		17.185	2.334		0.489	1.791		0.398	1.657		0.361	1.327		0.315	1.418		0.323	1.378		0.330
Radium-228 (Ra-228)	15.9	437.800		58.196	4.331		0.823	2.373		0.522	2.077		0.551	1.655		0.500	1.686		0.501	0.927		0.378
Thallium-208 (Tl-208)	2,430,000	143.420		19.620	1.678		0.340	0.921		0.224	0.758		0.230	0.499		0.136	0.347		0.130	0.350		0.123
Thorium-228 (Th-228)	14,100	114	N2	19.5	3.64	N2	0.836	1.75	N2	0.529	1.69	N2	0.512	1.66	N2	0.474	1.67	N2	0.449	0.848	N2	0.324
Thorium-230 (Th-230)	2,090	34.2	N2	6.76	1.89	N2	0.525	1.30	N2	0.429	1.01	N2	0.368	1.37	N2	0.405	1.05	N2	0.327	0.998	N2	0.351
Thorium-232 Th-232)	5.12	103	N2	17.7	2.77	N2	0.680	1.24	N2	0.417	1.28	N2	0.421	1.52	N2	0.433	1.08	N2	0.331	0.951	N2	0.340
Thorium-234 Th-234)	47,900	117.740		18.967	3.635		2.607	1.862		1.715	2.331		1.712	0.000		3.056	1.790		1.692	0.000		1.851
Uranium-233/234 (U-233/234)	NS	137	N2	28.3	1.86	N2	0.423	1.17	N2	0.327	0.987	N2	0.276	1.15	N2	0.304	0.806	N2	0.232	0.711	N2	0.231
Uranium-235/236 (U-235/236)	NS	7.01	N2	2.02	0.018	N2	0.064	0.037	N2	0.076	0.068	N2	0.072	0.135	N2	0.101	0.028	N2	0.058	0.076	N2	0.075
Uranium-235 (U-235)	39.2	15.252		2.418	0.266		0.164	0.074		0.161	0.204		0.172	0.184		0.189	0.188		0.136	0.064		0.160
Uranium-238 (U-238)	3,720	140	N2	29.0	2.21	N2	0.479	1.26	N2	0.343	1.11	N2	0.297	1.27	N2	0.324	0.966	N2	0.260	0.994	N2	0.283

Notes:

RST 3 - Removal Support Team 3.

No. - Number; ND - Not detected.

N2 - The laboratory does not hold The NELAC Institute (TNI) accreditation for this parameter.

pCi/g - picocuries per gram; µg/L - micrograms per liter.

[1]U.S. Environmental Protection Agency (EPA) Site-Specific Action Level (SSAL) values are presented in pCi/g.

Values in red highlighted in yellow equal or exceed the EPA SSAL for the respective radioisotope.

Radium-226* (21-day ingrowth) analyzed by gamma spectroscopy via EPA 901.1 modified (soil only).

Table 1
Soil Analytical Results Summary Table - Radioisotopes
Niagara Falls Boulevard Radiological Site
Niagara Falls Boulevard, Niagara Falls, New York
March 2016

	Location No.	N002-SB005			N002-SB006			N002-SB006			N002-SB006			N002-SB006			N002-SB006			N002-SB006		
	RST 3 Sample No.	**N002-SB005-4248-01**			**N002-SB006-0006-01**			**N002-SB006-0612-01**			**N002-SB006-1218-01**			**N002-SB006-1824-01**			**N002-SB006-2430-01**			**N002-SB006-3036-01**		
	Sample Depth (inches)	42-48			0-6			6-12			12-18			18-24			24-30			30-36		
	Sample Matrix	Soil			Soil			Soil			Soil			Soil			Soil			Soil		
	Sample Date	3/2/2016			3/3/2016			3/3/2016			3/3/2016			3/3/2016			3/3/2016			3/3/2016		
	Sample Result	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty
Radioisotope	**[1]EPA SSAL**																					
Actinium-228 (Ac-228)	126,000	ND			ND			ND			ND			ND			ND			ND		
Bismuth-212 (Bi-212)	6,330,000	2.669		1.711	161.77		23.048	0.723		0.549	0.522		3.027	1.787		1.927	1.336		1.671	1.341		2.584
Bismuth-214 (Bi-214)	1,290,000	ND			ND			ND			ND			ND			ND			ND		
Cesium-137 (Cs-137)	11	0.000		0.016	0.000		0.725	0.060		0.088	0.062		0.159	0.000		0.060	0.073		0.163	0.022		0.129
Lead-210 (Pb-210)	418	0.808		2.870	77.875		125.520	6.457		14.857	4.270		3.264	2.844		20.088	2.399		4.330	6.861		21.824
Lead-212 (Pb-212)	661,000	1.291		0.302	149.220		20.130	0.765		0.207	1.100		0.310	1.296		0.307	1.498		0.337	1.255		0.292
Lead-214 (Pb-214)	7,200,000	ND			ND			ND			ND			ND			ND			ND		
Potassium-40 (K-40)	25.9	20.976		4.195	8.051		6.029	10.452		2.387	29.623		5.692	31.539		5.369	27.240		5.381	21.654		4.061
Radium-226* (Ra-226)	2.48	1.257		0.369	39.143		5.361	1.173		0.238	1.704		0.419	1.319		0.355	1.862		0.440	1.236		0.329
Radium-228 (Ra-228)	15.9	1.454		0.444	150.130		20.036	1.110		0.322	1.893		0.576	1.348		0.540	1.019		0.451	1.422		0.474
Thallium-208 (Tl-208)	2,430,000	0.424		0.153	50.038		6.721	0.284		0.099	0.576		0.220	0.577		0.155	0.642		0.185	0.318		0.129
Thorium-228 (Th-228)	14,100	1.15	N2	0.360	59.1	N2	9.62	1.50	N2	0.530	1.27	N2	0.423	1.27	N2	0.456	1.02	N2	0.354	1.07	N2	0.351
Thorium-230 (Th-230)	2,090	0.872	N2	0.294	20.1	N2	3.43	0.728	N2	0.339	1.63	N2	0.479	0.996	N2	0.379	0.990	N2	0.339	0.781	N2	0.277
Thorium-232 Th-232)	5.12	0.961	N2	0.312	59.9	N2	9.75	0.874	N2	0.376	0.895	N2	0.331	1.13	N2	0.405	1.12	N2	0.362	0.917	N2	0.303
Thorium-234 Th-234)	47,900	2.329		1.511	62.779		16.089	2.945		2.729	5.347		2.113	0.645		4.896	2.161		2.518	1.240		2.081
Uranium-233/234 (U-233/234)	NS	0.779	N2	0.234	31.5	N2	5.48	0.955	N2	0.278	1.46	N2	0.368	0.964	N2	0.265	1.03	N2	0.287	0.934	N2	0.267
Uranium-235/236 (U-235/236)	NS	0.009	N2	0.062	1.76	N2	0.540	0.059	N2	0.071	0.054	N2	0.071	0.057	N2	0.068	0.003	N2	0.068	0.032	N2	0.066
Uranium-235 (U-235)	39.2	0.220		0.153	6.733		1.328	0.252		0.141	0.307		0.143	0.124		0.177	0.270		0.209	0.147		0.172
Uranium-238 (U-238)	3,720	0.837	N2	0.244	32.4	N2	5.63	0.880	N2	0.264	1.57	N2	0.387	0.987	N2	0.268	1.12	N2	0.303	0.913	N2	0.263

	Location No.	N002-SB006			N002-SB006			N002-SB007			N002-SB007			N002-SB007			N002-SB007			N002-SB007		
	RST 3 Sample No.	**N002-SB006-3642-01**			**N002-SB006-4248-01**			**N002-SB007-0006-01**			**N002-SB007-0612-01**			**N002-SB007-1218-01**			**N002-SB007-1824-01**			**N002-SB007-2430-01**		
	Sample Depth (inches)	36-42			42-48			0-6			6-12			12-18			18-24			24-30		
	Sample Matrix	Soil			Soil			Soil			Soil			Soil			Soil			Soil		
	Sample Date	3/3/2016			3/3/2016			3/3/2016			3/3/2016			3/3/2016			3/3/2016			3/3/2016		
	Sample Result	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty
Radioisotope	**[1]EPA SSAL**																					
Actinium-228 (Ac-228)	126,000	ND			ND			ND			ND			ND			ND			ND		
Bismuth-212 (Bi-212)	6,330,000	1.320		1.761	0.982		1.621	280.640		31.993	14.420		4.383	1.175		2.545	4.075		1.630	1.455		1.784
Bismuth-214 (Bi-214)	1,290,000	ND			ND			ND			ND			ND			ND			ND		
Cesium-137 (Cs-137)	11	0.034		0.085	0.000		0.010	0.000		0.282	0.099		0.237	0.000		0.057	0.000		0.048	0.075		0.079
Lead-210 (Pb-210)	418	1.199		3.742	0.000		23.525	28.531		11.982	1.750		6.424	13.432		20.793	1.330		3.964	0.000		23.571
Lead-212 (Pb-212)	661,000	1.439		0.319	1.117		0.250	257.940		30.454	11.070		1.628	1.319		0.292	1.595		0.372	1.269		0.305
Lead-214 (Pb-214)	7,200,000	ND			ND			ND			ND			ND			ND			ND		
Potassium-40 (K-40)	25.9	20.282		4.183	21.013		3.871	14.498		6.936	17.164		3.747	27.551		4.763	28.053		5.425	21.167		4.057
Radium-226* (Ra-226)	2.48	1.326		0.337	1.362		0.304	63.718		7.101	4.164		0.804	1.620		0.359	1.512		0.385	1.358		0.281
Radium-228 (Ra-228)	15.9	1.206		0.582	1.499		0.451	268.390		29.024	10.528		1.714	1.883		0.527	1.642		0.578	1.514		0.525
Thallium-208 (Tl-208)	2,430,000	0.503		0.151	0.402		0.161	81.008		8.896	3.534		0.597	0.529		0.164	0.551		0.222	0.298		0.181
Thorium-228 (Th-228)	14,100	1.24	N2	0.378	1.38	N2	0.418	68.3	N2	11.2	7.51	N2	1.45	1.33	N2	0.546	1.23	N2	0.484	1.42	N2	0.420
Thorium-230 (Th-230)	2,090	0.615	N2	0.242	0.799	N2	0.292	31.9	N2	5.41	2.51	N2	0.621	1.11	N2	0.479	0.897	N2	0.386	1.12	N2	0.355
Thorium-232 Th-232)	5.12	0.616	N2	0.238	1.04	N2	0.343	67.6	N2	11.1	6.76	N2	1.33	1.14	N2	0.480	0.768	N2	0.350	0.965	N2	0.324
Thorium-234 Th-234)	47,900	2.296		2.418	1.007		4.221	38.293		9.112	2.059		3.746	3.490		4.309	1.266		2.635	3.170		2.216
Uranium-233/234 (U-233/234)	NS	0.942	N2	0.259	0.734	N2	0.224	43.4	N2	7.91	3.59	N2	0.731	1.41	N2	0.353	0.651	N2	0.218	1.39	N2	0.354
Uranium-235/236 (U-235/236)	NS	0.000	N2	0.060	0.048	N2	0.062	1.97	N2	0.663	0.258	N2	0.152	0.178	N2	0.118	0.056	N2	0.068	0.155	N2	0.110
Uranium-235 (U-235)	39.2	0.098		0.152	0.223		0.143	8.642		1.297	0.506		0.301	0.146		0.160	0.269		0.167	0.267		0.200
Uranium-238 (U-238)	3,720	1.00	N2	0.269	1.09	N2	0.288	45.4	N2	8.26	3.82	N2	0.768	1.27	N2	0.329	1.16	N2	0.310	1.46	N2	0.367

Notes:

RST 3 - Removal Support Team 3.

No. - Number; ND - Not detected.

N2 - The laboratory does not hold The NELAC Institute (TNI) accreditation for this parameter.

pCi/g - picocuries per gram; µg/L - micrograms per liter.

[1]U.S. Environmental Protection Agency (EPA) Site-Specific Action Level (SSAL) values are presented in pCi/g.

Values in red highlighted in yellow equal or exceed the EPA SSAL for the respective radioisotope.

Radium-226* (21-day ingrowth) analyzed by gamma spectroscopy via EPA 901.1 modified (soil only).

Table 1
Soil Analytical Results Summary Table - Radioisotopes
Niagara Falls Boulevard Radiological Site
Niagara Falls Boulevard, Niagara Falls, New York
March 2016

	Location No.	N002-SB007			N002-SB007			N002-SB007			N002-SB008			N002-SB008			N002-SB008			N002-SB008		
	RST 3 Sample No.	**N002-SB007-3036-01**			**N002-SB007-3642-01**			**N002-SB007-4248-01**			**N002-SB008-0006-01**			**N002-SB008-0612-01**			**N002-SB008-1218-01**			**N002-SB008-1824-01**		
	Sample Depth (inches)	30-36			36-42			42-48			0-6			6-12			12-18			18-24		
	Sample Matrix	Soil			Soil			Soil			Soil			Soil			Soil			Soil		
	Sample Date	3/3/2016			3/3/2016			3/3/2016			3/2/2016			3/2/2016			3/2/2016			3/2/2016		
	Sample Result	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty
Radioisotope	**[1]EPA SSAL**																					
Actinium-228 (Ac-228)	126,000	ND			ND			ND			ND			ND			ND			ND		
Bismuth-212 (Bi-212)	6,330,000	2.247		2.187	1.627		1.348	1.532		1.482	9.832		3.123	7.281		2.412	1.718		1.815	1.954		1.919
Bismuth-214 (Bi-214)	1,290,000	ND			ND			ND			ND			ND			ND			ND		
Cesium-137 (Cs-137)	11	0.003		0.170	0.000		0.045	0.000		0.043	0.091		0.226	0.057		0.175	0.000		0.020	0.055		0.167
Lead-210 (Pb-210)	418	3.126		3.306	2.121		18.899	2.969		19.608	3.667		5.024	3.101		30.614	2.425		3.743	3.150		4.368
Lead-212 (Pb-212)	661,000	1.201		0.295	1.210		0.274	1.281		0.278	7.990		1.187	5.738		0.904	1.960		0.409	1.624		0.362
Lead-214 (Pb-214)	7,200,000	ND			ND			ND			ND			ND			ND			ND		
Potassium-40 (K-40)	25.9	19.794		4.261	20.376		3.583	17.263		3.388	11.218		2.817	22.180		4.067	24.181		4.916	21.628		4.645
Radium-226* (Ra-226)	2.48	1.468		0.391	1.306		0.253	1.272		0.319	3.115		0.620	3.152		0.547	1.562		0.430	1.801		0.388
Radium-228 (Ra-228)	15.9	1.785		0.594	1.473		0.458	0.800		0.366	8.362		1.37	6.735		1.283	2.859		0.803	1.229		0.484
Thallium-208 (Tl-208)	2,430,000	0.278		0.241	0.413		0.133	0.511		0.141	2.753		0.498	1.899		0.365	0.623		0.226	0.589		0.194
Thorium-228 (Th-228)	14,100	0.918	N2	0.313	1.13	N2	0.355	1.15	N2	0.371	5.55	N2	1.12	4.72	N2	1.03	1.41	N2	0.431	1.44	N2	0.410
Thorium-230 (Th-230)	2,090	0.917	N2	0.301	0.926	N2	0.305	0.797	N2	0.291	2.22	N2	0.557	2.70	N2	0.675	0.995	N2	0.338	1.02	N2	0.323
Thorium-232 Th-232)	5.12	1.07	N2	0.331	0.989	N2	0.316	0.874	N2	0.304	6.60	N2	1.28	4.84	N2	1.04	1.34	N2	0.407	1.01	N2	0.320
Thorium-234 Th-234)	47,900	2.715		2.198	2.386		3.656	2.139		1.656	1.382		1.078	4.662		4.980	2.521		1.701	0.544		2.823
Uranium-233/234 (U-233/234)	NS	0.970	N2	0.269	1.09	N2	0.296	0.902	N2	0.260	2.60	N2	0.576	2.33	N2	0.515	0.914	N2	0.249	1.05	N2	0.313
Uranium-235/236 (U-235/236)	NS	0.083	N2	0.078	0.006	N2	0.066	0.036	N2	0.066	0.183	N2	0.128	0.137	N2	0.103	0.032	N2	0.057	0.017	N2	0.081
Uranium-235 (U-235)	39.2	0.080		0.188	0.252		0.162	0.037		0.154	0.480		0.220	0.668		0.292	0.213		0.239	0.226		0.158
Uranium-238 (U-238)	3,720	0.965	N2	0.267	1.41	N2	0.351	0.829	N2	0.247	2.31	N2	0.528	1.80	N2	0.426	1.04	N2	0.270	1.02	N2	0.306

	Location No.	N002-SB008			N002-SB008			N002-SB008			N002-SB008			N002-SB009			N002-SB009			N002-SB009		
	RST 3 Sample No.	**N002-SB008-2430-01**			**N002-SB008-3036-01**			**N002-SB008-3642-01**			**N002-SB008-4248-01**			**N002-SB009-0006-01**			**N002-SB009-0612-01**			**N002-SB009-1218-01**		
	Sample Depth (inches)	24-30			30-36			36-42			42-48			0-6			6-12			12-18		
	Sample Matrix	Soil			Soil			Soil			Soil			Soil			Soil			Soil		
	Sample Date	3/2/2016			3/2/2016			3/2/2016			3/2/2016			3/2/2016			3/2/2016			3/2/2016		
	Sample Result	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty
Radioisotope	**[1]EPA SSAL**																					
Actinium-228 (Ac-228)	126,000	ND			ND			ND			ND			ND			ND			ND		
Bismuth-212 (Bi-212)	6,330,000	2.384		1.851	1.058		2.201	2.106		2.159	2.711		2.678	59.623		9.154	9.081		2.575	1.439		2.551
Bismuth-214 (Bi-214)	1,290,000	ND			ND			ND			ND			ND			ND			ND		
Cesium-137 (Cs-137)	11	0.069		0.154	0.000		0.061	0.045		0.134	0.000		0.064	0.000		0.422	0.050		0.198	0.000		0.197
Lead-210 (Pb-210)	418	0.000		26.218	0.000		24.913	6.484		23.603	0.734		4.283	12.159		69.006	4.257		4.498	0.000		5.565
Lead-212 (Pb-212)	661,000	1.188		0.308	1.362		0.306	1.003		0.269	1.528		0.341	58.129		7.881	5.735		0.883	1.681		0.362
Lead-214 (Pb-214)	7,200,000	ND			ND			ND			ND			ND			ND			ND		
Potassium-40 (K-40)	25.9	19.845		3.961	19.760		3.714	21.939		4.140	21.956		4.615	7.577		3.395	18.615		3.649	22.982		4.251
Radium-226* (Ra-226)	2.48	1.408		0.404	1.536		0.348	1.619		0.366	2.004		0.425	21.269		3.001	3.481		0.625	1.777		0.371
Radium-228 (Ra-228)	15.9	1.433		0.621	1.636		0.448	1.644		0.532	2.297		0.622	61.035		8.404	6.532		1.097	2.006		0.491
Thallium-208 (Tl-208)	2,430,000	0.533		0.199	0.402		0.139	0.418		0.178	0.702		0.192	18.254		2.477	2.094		0.396	0.622		0.160
Thorium-228 (Th-228)	14,100	1.09	N2	0.350	1.34	N2	0.396	1.24	N2	0.392	1.14	N2	0.382	26.7	N2	4.50	6.06	N2	1.26	1.18	N2	0.399
Thorium-230 (Th-230)	2,090	1.15	N2	0.353	1.04	N2	0.330	0.829	N2	0.301	0.905	N2	0.316	12.2	N2	2.18	2.98	N2	0.738	1.44	N2	0.438
Thorium-232 Th-232)	5.12	0.949	N2	0.313	0.984	N2	0.319	1.05	N2	0.344	1.20	N2	0.376	27.2	N2	4.57	6.31	N2	1.29	1.05	N2	0.359
Thorium-234 Th-234)	47,900	1.816		1.870	1.511		2.101	2.088		5.038	1.483		2.857	22.167		11.517	6.833		2.277	0.000		2.263
Uranium-233/234 (U-233/234)	NS	1.07	N2	0.291	1.19	N2	0.317	0.935	N2	0.264	1.14	N2	0.309	11.0	N2	1.80	3.50	N2	0.708	0.957	N2	0.261
Uranium-235/236 (U-235/236)	NS	0.014	N2	0.065	0.034	N2	0.069	0.066	N2	0.071	0.056	N2	0.068	0.690	N2	0.231	0.159	N2	0.113	0.098	N2	0.080
Uranium-235 (U-235)	39.2	0.294		0.173	0.146		0.151	0.266		0.174	0.358		0.171	2.733		0.640	0.501		0.216	0.079		0.179
Uranium-238 (U-238)	3,720	1.17	N2	0.309	1.29	N2	0.335	0.975	N2	0.270	1.07	N2	0.295	12.5	N2	2.03	3.43	N2	0.696	1.12	N2	0.290

Notes:

RST 3 - Removal Support Team 3.

No. - Number; ND - Not detected.

N2 - The laboratory does not hold The NELAC Institute (TNI) accreditation for this parameter.

pCi/g - picocuries per gram; µg/L - micrograms per liter.

[1]U.S. Environmental Protection Agency (EPA) Site-Specific Action Level (SSAL) values are presented in pCi/g.

Values in red highlighted in yellow equal or exceed the EPA SSAL for the respective radioisotope.

Radium-226* (21-day ingrowth) analyzed by gamma spectroscopy via EPA 901.1 modified (soil only).

Table 1
Soil Analytical Results Summary Table - Radioisotopes
Niagara Falls Boulevard Radiological Site
Niagara Falls Boulevard, Niagara Falls, New York
March 2016

	Location No.	N002-SB009			N002-SB009			N002-SB009			N002-SB009			N002-SB009			N002-SB010			N002-SB010		
	RST 3 Sample No.	**N002-SB009-1824-01**			**N002-SB009-2430-01**			**N002-SB009-3036-01**			**N002-SB009-3642-01**			**N002-SB009-4248-01**			**N002-SB010-0006-01**			**N002-SB010-0612-01**		
	Sample Depth (inches)	18-24			24-30			30-36			36-42			42-48			0-6			6-12		
	Sample Matrix	Soil			Soil			Soil			Soil			Soil			Soil			Soil		
	Sample Date	3/2/2016			3/2/2016			3/2/2016			3/2/2016			3/2/2016			3/1/2016			3/1/2016		
	Sample Result	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty
Radioisotope	**[1]EPA SSAL**																					
Actinium-228 (Ac-228)	126,000	ND			ND			ND			ND			ND			ND			ND		
Bismuth-212 (Bi-212)	6,330,000	2.271		2.020	0.375		2.229	3.101		2.067	1.897		2.815	1.133		2.882	21.962		4.622	14.313		3.633
Bismuth-214 (Bi-214)	1,290,000	ND			ND			ND			ND			ND			ND			ND		
Cesium-137 (Cs-137)	11	0.104		0.100	0.018		0.147	0.000		0.090	0.047		0.144	0.011		0.157	0.000		0.293	0.000		0.045
Lead-210 (Pb-210)	418	2.392		3.724	4.056		22.660	3.997		4.020	10.697		19.033	1.066		4.602	7.912		41.529	4.777		6.115
Lead-212 (Pb-212)	661,000	1.313		0.306	1.440		0.330	1.365		0.341	1.397		0.327	1.564		0.370	14.870		2.108	11.784		1.699
Lead-214 (Pb-214)	7,200,000	ND			ND			ND			ND			ND			ND			ND		
Potassium-40 (K-40)	25.9	24.015		4.858	19.958		3.636	19.541		4.432	20.179		4.751	23.059		4.808	12.851		2.776	15.005		3.271
Radium-226* (Ra-226)	2.48	1.832		0.402	1.641		0.346	1.738		0.423	1.572		0.368	1.703		0.381	6.464		1.049	5.232		0.875
Radium-228 (Ra-228)	15.9	1.591		0.423	1.665		0.542	1.271		0.630	1.726		0.475	1.199		0.700	16.192		2.467	11.053		1.712
Thallium-208 (Tl-208)	2,430,000	0.600		0.222	0.553		0.181	0.408		0.299	0.436		0.139	0.510		0.217	5.284		0.814	3.983		0.641
Thorium-228 (Th-228)	14,100	1.63	N2	0.471	1.29	N2	0.400	1.38	N2	0.419	0.998	N2	0.367	1.16	N2	0.365	11.0	N2	2.04	10.1	N2	1.87
Thorium-230 (Th-230)	2,090	1.06	N2	0.351	1.13	N2	0.357	0.917	N2	0.315	0.891	N2	0.334	1.03	N2	0.329	4.45	N2	0.959	3.91	N2	0.851
Thorium-232 Th-232)	5.12	1.03	N2	0.346	0.981	N2	0.326	1.10	N2	0.351	0.941	N2	0.340	1.18	N2	0.359	11.7	N2	2.14	10.3	N2	1.89
Thorium-234 Th-234)	47,900	1.625		2.487	1.633		3.982	1.059		1.468	0.000		2.867	1.461		1.905	2.964		9.682	4.043		4.612
Uranium-233/234 (U-233/234)	NS	1.39	N2	0.356	1.10	N2	0.291	0.930	N2	0.273	1.12	N2	0.310	1.23	N2	0.324	3.92	N2	0.749	3.88	N2	0.769
Uranium-235/236 (U-235/236)	NS	0.113	N2	0.096	0.058	N2	0.070	0.079	N2	0.078	0.075	N2	0.080	0.049	N2	0.068	0.293	N2	0.147	0.114	N2	0.097
Uranium-235 (U-235)	39.2	0.217		0.156	0.255		0.132	0.048		0.196	0.280		0.158	0.173		0.197	0.949		0.378	0.682		0.330
Uranium-238 (U-238)	3,720	0.812	N2	0.250	1.06	N2	0.284	1.30	N2	0.341	1.26	N2	0.335	1.26	N2	0.327	4.56	N2	0.848	3.81	N2	0.756

	Location No.	N002-SB010			N002-SB010			N002-SB010			N002-SB010			N002-SB010			N002-SB010			N002-SB010		
	RST 3 Sample No.	**N002-SB010-1218-01**			**N002-SB010-1218-02**			**N002-SB010-1824-01**			**N002-SB010-2430-01**			**N002-SB010-2430-02**			**N002-SB010-3036-01**			**N002-SB010-3642-01**		
	Sample Depth (inches)	12-18			12-18			18-24			24-30			24-30			30-36			36-42		
	Sample Matrix	Soil			Soil			Soil			Soil			Soil			Soil			Soil		
	Sample Date	3/1/2016			3/1/2016			3/1/2016			3/1/2016			3/1/2016			3/1/2016			3/1/2016		
	Sample Result	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty
Radioisotope	**[1]EPA SSAL**																					
Actinium-228 (Ac-228)	126,000	ND			ND			ND			ND			ND			ND			ND		
Bismuth-212 (Bi-212)	6,330,000	2.713		1.355	2.461		1.451	1.915		1.514	1.920		1.487	1.626		1.911	2.571		1.494	0.423		0.666
Bismuth-214 (Bi-214)	1,290,000	ND			ND			ND			ND			ND			ND			ND		
Cesium-137 (Cs-137)	11	0.075		0.107	0.079		0.101	0.000		0.061	0.000		0.142	0.061		0.118	0.021		0.174	0.043		0.165
Lead-210 (Pb-210)	418	2.173		18.771	6.795		18.960	1.824		3.055	0.774		22.947	1.103		3.119	0.000		11.040	1.49		3.530
Lead-212 (Pb-212)	661,000	1.293		0.276	1.459		0.288	0.991		0.242	1.026		0.257	0.870		0.248	1.256		0.306	1.302		0.326
Lead-214 (Pb-214)	7,200,000	ND			ND			ND			ND			ND			ND			ND		
Potassium-40 (K-40)	25.9	16.709		3.301	18.865		3.381	17.544		3.695	20.267		3.797	14.668		3.944	21.732		4.039	19.451		4.318
Radium-226* (Ra-226)	2.48	1.143		0.294	1.373		0.275	1.487		0.317	1.369		0.266	1.338		0.334	1.405		0.375	1.721		0.419
Radium-228 (Ra-228)	15.9	1.334		0.433	1.597		0.401	1.232		0.448	1.263		0.483	1.525		0.526	1.59		0.538	1.454		0.428
Thallium-208 (Tl-208)	2,430,000	0.253		0.170	0.507		0.142	0.298		0.107	0.344		0.212	0.429		0.158	0.472		0.150	0.380		0.292
Thorium-228 (Th-228)	14,100	1.14	N2	0.398	1.35	N2	0.436	1.02	N2	0.344	1.40	N2	0.478	1.21	N2	0.412	0.855	N2	0.297	1.10	N2	0.368
Thorium-230 (Th-230)	2,090	0.581	N2	0.265	0.734	N2	0.288	0.995	N2	0.330	0.996	N2	0.378	0.828	N2	0.320	0.895	N2	0.294	1.01	N2	0.337
Thorium-232 Th-232)	5.12	1.21	N2	0.399	1.15	N2	0.378	0.741	N2	0.274	0.728	N2	0.313	1.11	N2	0.381	0.861	N2	0.286	0.788	N2	0.290
Thorium-234 Th-234)	47,900	0.964		3.966	0.000		2.641	1.797		2.024	3.278		2.749	1.899		1.844	3.456		3.309	1.874		1.972
Uranium-233/234 (U-233/234)	NS	1.07	N2	0.312	1.11	N2	0.328	0.957	N2	0.271	0.949	N2	0.299	1.05	N2	0.301	0.891	N2	0.262	0.914	N2	0.264
Uranium-235/236 (U-235/236)	NS	0.089	N2	0.091	0.027	N2	0.081	0.009	N2	0.065	0.093	N2	0.092	0.041	N2	0.074	0.071	N2	0.075	0.061	N2	0.074
Uranium-235 (U-235)	39.2	0.120		0.148	0.183		0.104	0.210		0.111	0.233		0.183	0.092		0.149	0.065		0.190	0.422		0.161
Uranium-238 (U-238)	3,720	0.961	N2	0.29	0.981	N2	0.302	1.06	N2	0.289	0.943	N2	0.294	1.03	N2	0.298	1.04	N2	0.287	1.12	N2	0.300

Notes:

RST 3 - Removal Support Team 3.

No. - Number; ND - Not detected.

N2 - The laboratory does not hold The NELAC Institute (TNI) accreditation for this parameter.

pCi/g - picocuries per gram; µg/L - micrograms per liter.

[1]U.S. Environmental Protection Agency (EPA) Site-Specific Action Level (SSAL) values are presented in pCi/g.

Values in red highlighted in yellow equal or exceed the EPA SSAL for the respective radioisotope.

Radium-226* (21-day ingrowth) analyzed by gamma spectroscopy via EPA 901.1 modified (soil only).

Table 1
Soil Analytical Results Summary Table - Radioisotopes
Niagara Falls Boulevard Radiological Site
Niagara Falls Boulevard, Niagara Falls, New York
March 2016

	Location No.	N002-SB010			N002-SB010			N002-SB011			N002-SB011			N002-SB011			N002-SB011			N002-SB011		
	RST 3 Sample No.	**N002-SB010-3642-02**			**N002-SB010-4248-01**			**N002-SB011-0006-01**			**N002-SB011-0612-01**			**N002-SB011-1218-01**			**N002-SB011-1824-01**			**N002-SB011-2430-01**		
	Sample Depth (inches)	36-42			42-48			0-6			6-12			12-18			18-24			24-30		
	Sample Matrix	Soil			Soil			Soil			Soil			Soil			Soil			Soil		
	Sample Date	3/1/2016			3/1/2016			3/1/2016			3/1/2016			3/1/2016			3/1/2016			3/1/2016		
	Sample Result	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty
Radioisotope	**[1]EPA SSAL**																					
Actinium-228 (Ac-228)	126,000	ND			ND			ND			ND			ND			ND			ND		
Bismuth-212 (Bi-212)	6,330,000	3.619		1.708	2.195		2.156	29.744		4.845	26.485		6.005	3.983		1.602	1.704		1.460	1.525		2.869
Bismuth-214 (Bi-214)	1,290,000	ND			ND			ND			ND			ND			ND			ND		
Cesium-137 (Cs-137)	11	0.000		0.169	0.000		0.027	0.000		0.266	0.000		0.107	0.015		0.134	0.000		0.021	0.021		0.171
Lead-210 (Pb-210)	418	0.000		13.190	1.282		3.317	19.452		42.475	3.881		7.465	5.250		24.609	0.362		4.301	0.000		11.607
Lead-212 (Pb-212)	661,000	1.112		0.262	1.737		0.365	27.830		3.798	20.057		2.808	2.997		0.649	1.375		0.341	1.189		0.303
Lead-214 (Pb-214)	7,200,000	ND			ND			ND			ND			ND			ND			ND		
Potassium-40 (K-40)	25.9	20.305		3.877	20.226		4.295	5.583		1.658	13.660		3.635	24.199		4.212	24.462		5.025	19.774		3.752
Radium-226* (Ra-226)	2.48	1.515		0.375	1.666		0.403	6.881		1.017	6.876		1.033	1.414		0.390	1.687		0.425	1.574		0.368
Radium-228 (Ra-228)	15.9	1.047		0.603	2.328		0.591	30.512		4.239	19.885		2.889	2.542		0.669	1.257		0.490	1.391		0.521
Thallium-208 (Tl-208)	2,430,000	0.324		0.209	0.491		0.178	9.576		1.328	6.855		1.029	0.918		0.234	0.549		0.183	0.368		0.171
Thorium-228 (Th-228)	14,100	1.03	N2	0.361	0.928	N2	0.340	21.4	N2	3.68	15.0	N2	2.65	2.49	N2	0.653	1.16	N2	0.421	1.16	N2	0.389
Thorium-230 (Th-230)	2,090	0.988	N2	0.343	1.03	N2	0.342	8.35	N2	1.58	5.91	N2	1.17	1.32	N2	0.423	1.42	N2	0.455	0.997	N2	0.346
Thorium-232 Th-232)	5.12	0.928	N2	0.327	0.708	N2	0.272	20.2	N2	3.47	15.5	N2	2.71	2.25	N2	0.598	1.11	N2	0.392	0.749	N2	0.289
Thorium-234 Th-234)	47,900	3.151		3.028	0.854		2.640	17.351		7.280	5.780		4.496	3.334		3.112	2.332		2.965	1.868		4.499
Uranium-233/234 (U-233/234)	NS	1.22	N2	0.326	0.821	N2	0.255	8.91	N2	1.60	6.19	N2	1.09	1.36	N2	0.348	1.10	N2	0.297	0.899	N2	0.275
Uranium-235/236 (U-235/236)	NS	0.000	N2	0.070	0.119	N2	0.099	0.458	N2	0.213	0.215	N2	0.121	0.053	N2	0.069	0.097	N2	0.089	0.105	N2	0.094
Uranium-235 (U-235)	39.2	0.295		0.147	0.146		0.171	1.056		0.373	1.175		0.400	0.193		0.174	0.301		0.177	0.271		0.144
Uranium-238 (U-238)	3,720	0.861	N2	0.26	0.890	N2	0.267	8.78	N2	1.58	6.70	N2	1.16	1.31	N2	0.337	1.07	N2	0.290	1.22	N2	0.334

	Location No.	N002-SB011			N002-SB011			N002-SB011			N002-SB012			N002-SB012			N002-SB012			N002-SB012		
	RST 3 Sample No.	**N002-SB011-3036-01**			**N002-SB011-3642-01**			**N002-SB011-4248-01**			**N002-SB012-0006-01**			**N002-SB012-0612-01**			**N002-SB012-1218-01**			**N002-SB012-1824-01**		
	Sample Depth (inches)	30-36			36-42			42-48			0-6			6-12			12-18			18-24		
	Sample Matrix	Soil			Soil			Soil			Soil			Soil			Soil			Soil		
	Sample Date	3/1/2016			3/1/2016			3/1/2016			3/1/2016			3/1/2016			3/1/2016			3/1/2016		
	Sample Result	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty
Radioisotope	**[1]EPA SSAL**																					
Actinium-228 (Ac-228)	126,000	ND			ND			ND			ND			ND			ND			ND		
Bismuth-212 (Bi-212)	6,330,000	2.491		2.389	1.033		1.948	2.762		1.793	10.429		2.760	0.555		2.409	0.000		1.785	5.087		2.087
Bismuth-214 (Bi-214)	1,290,000	ND			ND			ND			ND			ND			ND			ND		
Cesium-137 (Cs-137)	11	0.000		0.062	0.025		0.147	0.203		0.098	0.000		0.074	0.068		0.104	0.000		0.031	0.000		0.037
Lead-210 (Pb-210)	418	0.000		3.037	0.000		7.305	3.194		4.088	0.000		16.599	0.000		3.095	0.000		3.399	0.000		14.233
Lead-212 (Pb-212)	661,000	1.516		0.369	1.186		0.276	1.436		0.348	10.591		1.537	1.826		0.382	1.293		0.329	1.528		0.339
Lead-214 (Pb-214)	7,200,000	ND			ND			ND			ND			ND			ND			ND		
Potassium-40 (K-40)	25.9	19.912		4.432	16.201		3.432	22.242		4.694	19.070		3.596	24.719		5.007	20.224		4.501	20.729		4.249
Radium-226* (Ra-226)	2.48	1.699		0.411	1.423		0.277	1.472		0.380	4.052		0.707	1.540		0.354	1.541		0.407	1.629		0.456
Radium-228 (Ra-228)	15.9	1.430		0.542	1.487		0.462	1.417		0.483	10.942		1.745	1.562		0.664	1.670		0.534	0.890		0.553
Thallium-208 (Tl-208)	2,430,000	0.640		0.205	0.302		0.239	0.574		0.194	3.591		0.575	0.592		0.208	0.542		0.207	0.484		0.172
Thorium-228 (Th-228)	14,100	2.04	N2	0.561	1.37	N2	0.403	1.24	N2	0.379	9.76	N2	1.79	1.12	N2	0.389	1.05	N2	0.346	1.00	N2	0.342
Thorium-230 (Th-230)	2,090	1.41	N2	0.428	0.998	N2	0.322	0.978	N2	0.319	3.57	N2	0.782	0.844	N2	0.320	1.04	N2	0.333	1.05	N2	0.345
Thorium-232 Th-232)	5.12	0.952	N2	0.335	0.888	N2	0.297	0.864	N2	0.295	9.41	N2	1.73	1.06	N2	0.365	1.02	N2	0.331	1.07	N2	0.346
Thorium-234 Th-234)	47,900	0.195		2.947	3.568		4.096	1.632		2.336	5.842		8.126	2.007		1.422	1.247		2.582	3.179		3.596
Uranium-233/234 (U-233/234)	NS	1.08	N2	0.296	0.984	N2	0.284	0.780	N2	0.232	3.44	N2	0.723	0.871	N2	0.250	1.18	N2	0.303	1.14	N2	0.304
Uranium-235/236 (U-235/236)	NS	0.032	N2	0.066	0.069	N2	0.073	0.102	N2	0.083	0.138	N2	0.114	0.030	N2	0.062	0.085	N2	0.076	0.069	N2	0.073
Uranium-235 (U-235)	39.2	0.318		0.278	0.329		0.162	0.184		0.219	0.480		0.251	0.257		0.225	0.346		0.244	0.436		0.233
Uranium-238 (U-238)	3,720	1.18	N2	0.311	1.03	N2	0.291	0.773	N2	0.230	3.43	N2	0.722	1.17	N2	0.302	1.12	N2	0.292	1.29	N2	0.331

Notes:

RST 3 - Removal Support Team 3.

No. - Number; ND - Not detected.

N2 - The laboratory does not hold The NELAC Institute (TNI) accreditation for this parameter.

pCi/g - picocuries per gram; µg/L - micrograms per liter.

[1]U.S. Environmental Protection Agency (EPA) Site-Specific Action Level (SSAL) values are presented in pCi/g.

Values in red highlighted in yellow equal or exceed the EPA SSAL for the respective radioisotope.

Radium-226* (21-day ingrowth) analyzed by gamma spectroscopy via EPA 901.1 modified (soil only).

Table 1
Soil Analytical Results Summary Table - Radioisotopes
Niagara Falls Boulevard Radiological Site
Niagara Falls Boulevard, Niagara Falls, New York
March 2016

	Location No.	N002-SB012			N002-SB012			N002-SB012			N002-SB012			N002-SB013			N002-SB013			N002-SB013		
	RST 3 Sample No.	**N002-SB012-2430-01**			**N002-SB012-3036-01**			**N002-SB012-3642-01**			**N002-SB012-4248-01**			**N002-SB013-0006-01**			**N002-SB013-0612-01**			**N002-SB013-1218-01**		
	Sample Depth (inches)	24-30			30-36			36-42			42-48			0-6			6-12			12-18		
	Sample Matrix	Soil			Soil			Soil			Soil			Soil			Soil			Soil		
	Sample Date	3/1/2016			3/1/2016			3/1/2016			3/1/2016			3/1/2016			3/1/2016			3/1/2016		
	Sample Result	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty
Radioisotope	**[1]EPA SSAL**																					
Actinium-228 (Ac-228)	126,000	ND			ND			ND			ND			ND			ND			ND		
Bismuth-212 (Bi-212)	6,330,000	1.023		3.377	1.314		2.195	0.000		1.692	1.674		1.694	8.641		2.607	37.774		7.207	8.914		2.823
Bismuth-214 (Bi-214)	1,290,000	ND			ND			ND			ND			ND			ND			ND		
Cesium-137 (Cs-137)	11	0.000		0.031	0.000		0.028	0.000		0.067	0.003		0.123	0.000		0.018	0.000		0.343	0.015		0.191
Lead-210 (Pb-210)	418	2.888		3.808	1.336		19.328	0.446		3.326	6.283		17.552	5.884		3.543	12.776		54.977	1.038		5.176
Lead-212 (Pb-212)	661,000	1.337		0.326	1.129		0.284	1.406		0.319	1.095		0.266	7.031		1.046	28.393		3.917	5.353		0.843
Lead-214 (Pb-214)	7,200,000	ND			ND			ND			ND			ND			ND			ND		
Potassium-40 (K-40)	25.9	24.515		5.112	15.233		3.146	19.335		4.072	20.334		3.734	2.824		1.869	19.041		4.435	22.101		4.290
Radium-226* (Ra-226)	2.48	1.990		0.436	1.328		0.298	1.363		0.318	1.311		0.300	2.927		0.546	10.982		1.678	3.665		0.706
Radium-228 (Ra-228)	15.9	1.914		0.660	1.884		0.483	1.002		0.623	1.146		0.468	7.037		1.130	29.179		4.206	5.438		0.970
Thallium-208 (Tl-208)	2,430,000	0.445		0.226	0.402		0.138	0.464		0.143	0.483		0.142	2.353		0.422	9.562		1.366	1.846		0.359
Thorium-228 (Th-228)	14,100	1.22	N2	0.429	1.22	N2	0.348	0.781	N2	0.302	0.959	N2	0.340	4.74	N2	0.976	23.4	N2	3.99	3.56	N2	0.834
Thorium-230 (Th-230)	2,090	1.19	N2	0.399	0.973	N2	0.295	0.871	N2	0.317	0.688	N2	0.269	1.80	N2	0.472	8.07	N2	1.53	2.30	N2	0.604
Thorium-232 Th-232)	5.12	1.00	N2	0.360	0.835	N2	0.267	0.853	N2	0.312	1.16	N2	0.366	4.18	N2	0.878	22.7	N2	3.87	3.72	N2	0.848
Thorium-234 Th-234)	47,900	2.888		2.406	0.244		4.140	0.513		2.559	4.792		2.691	3.626		2.840	23.580		5.761	0.876		3.904
Uranium-233/234 (U-233/234)	NS	0.935	N2	0.292	0.988	N2	0.281	0.723	N2	0.236	0.849	N2	0.248	1.93	N2	0.422	8.12	N2	1.42	1.86	N2	0.431
Uranium-235/236 (U-235/236)	NS	-0.005	N2	0.081	0.093	N2	0.083	0.090	N2	0.089	0.034	N2	0.062	0.147	N2	0.098	0.525	N2	0.212	0.119	N2	0.100
Uranium-235 (U-235)	39.2	0.383		0.147	0.121		0.132	0.345		0.246	0.180		0.125	0.416		0.224	1.255		0.365	0.501		0.226
Uranium-238 (U-238)	3,720	1.17	N2	0.334	1.02	N2	0.287	0.763	N2	0.243	0.700	N2	0.217	2.00	N2	0.434	8.48	N2	1.47	2.25	N2	0.494

	Location No.	N002-SB013			N002-SB013			N002-SB013			N002-SB013			N002-SB013			N002-SB014			N002-SB014		
	RST 3 Sample No.	**N002-SB013-1824-01**			**N002-SB013-2430-01**			**N002-SB013-3036-01**			**N002-SB013-3642-01**			**N002-SB013-4248-01**			**N002-SB014-0006-01**			**N002-SB014-0612-01**		
	Sample Depth (inches)	18-24			24-30			30-36			36-42			42-48			0-6			6-12		
	Sample Matrix	Soil			Soil			Soil			Soil			Soil			Soil			Soil		
	Sample Date	3/1/2016			3/1/2016			3/1/2016			3/1/2016			3/1/2016			3/2/2016			3/2/2016		
	Sample Result	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty
Radioisotope	**[1]EPA SSAL**																					
Actinium-228 (Ac-228)	126,000	ND			ND			ND			ND			ND			ND			ND		
Bismuth-212 (Bi-212)	6,330,000	4.15		1.594	3.282		2.283	3.029		1.413	1.686		2.295	0.000		1.171	35.405		7.134	3.829		1.841
Bismuth-214 (Bi-214)	1,290,000	ND			ND			ND			ND			ND			ND			ND		
Cesium-137 (Cs-137)	11	0.000		0.157	0.000		0.073	0.000		0.179	0.000		0.052	0.000		0.131	0.000		0.239	0.000		0.178
Lead-210 (Pb-210)	418	2.955		23.897	2.459		4.318	0.000		5.311	0.453		4.312	10.881		15.695	13.556		10.491	3.342		22.981
Lead-212 (Pb-212)	661,000	1.976		0.407	1.657		0.376	1.428		0.310	1.185		0.299	1.075		0.270	34.676		4.810	1.839		0.383
Lead-214 (Pb-214)	7,200,000	ND			ND			ND			ND			ND			ND			ND		
Potassium-40 (K-40)	25.9	24.054		4.321	24.636		5.070	21.791		3.991	18.389		4.182	18.368		3.386	20.507		4.647	25.385		4.564
Radium-226* (Ra-226)	2.48	1.782		0.400	1.772		0.419	1.652		0.324	1.637		0.424	1.420		0.326	15.611		2.299	1.770		0.356
Radium-228 (Ra-228)	15.9	2.204		0.552	1.521		0.605	1.814		0.511	1.381		0.561	0.846		0.513	35.091		4.953	1.913		0.557
Thallium-208 (Tl-208)	2,430,000	0.818		0.214	0.729		0.199	0.484		0.149	0.634		0.207	0.416		0.128	11.188		1.646	0.629		0.212
Thorium-228 (Th-228)	14,100	0.816	N2	0.337	1.32	N2	0.417	1.02	N2	0.345	1.09	N2	0.438	1.14	N2	0.564	22.0	N2	3.88	1.46	N2	0.481
Thorium-230 (Th-230)	2,090	0.506	N2	0.251	0.901	N2	0.317	0.713	N2	0.270	1.04	N2	0.407	0.392	N2	0.319	13.7	N2	2.53	1.51	N2	0.478
Thorium-232 Th-232)	5.12	0.395	N2	0.214	1.03	N2	0.340	1.09	N2	0.344	0.936	N2	0.383	1.01	N2	0.496	20.8	N2	3.67	1.38	N2	0.449
Thorium-234 Th-234)	47,900	0.000		2.522	0.997		2.563	1.383		4.088	0.000		1.709	2.205		2.899	17.403		6.746	1.598		1.880
Uranium-233/234 (U-233/234)	NS	1.38	N2	0.350	0.999	N2	0.282	1.13	N2	0.310	1.27	N2	0.341	0.808	N2	0.260	15.5	N2	2.60	1.20	N2	0.317
Uranium-235/236 (U-235/236)	NS	0.076	N2	0.075	0.033	N2	0.067	0.059	N2	0.071	0.124	N2	0.101	0.060	N2	0.078	0.744	N2	0.269	0.055	N2	0.066
Uranium-235 (U-235)	39.2	0.136		0.205	0.329		0.259	0.196		0.165	0.325		0.140	0.254		0.168	1.903		0.582	0.151		0.181
Uranium-238 (U-238)	3,720	1.53	N2	0.376	1.12	N2	0.303	1.14	N2	0.312	1.09	N2	0.308	0.973	N2	0.292	15.8	N2	2.63	0.987	N2	0.278

Notes:

RST 3 - Removal Support Team 3.

No. - Number; ND - Not detected.

N2 - The laboratory does not hold The NELAC Institute (TNI) accreditation for this parameter.

pCi/g - picocuries per gram; µg/L - micrograms per liter.

[1]U.S. Environmental Protection Agency (EPA) Site-Specific Action Level (SSAL) values are presented in pCi/g.

Values in red highlighted in yellow equal or exceed the EPA SSAL for the respective radioisotope.

Radium-226* (21-day ingrowth) analyzed by gamma spectroscopy via EPA 901.1 modified (soil only).

Table 1
Soil Analytical Results Summary Table - Radioisotopes
Niagara Falls Boulevard Radiological Site
Niagara Falls Boulevard, Niagara Falls, New York
March 2016

	Location No.	N002-SB014			N002-SB014			N002-SB014			N002-SB014			N002-SB014			N002-SB014		
	RST 3 Sample No.	**N002-SB014-1218-01**			**N002-SB014-1824-01**			**N002-SB014-2430-01**			**N002-SB014-3036-01**			**N002-SB014-3642-01**			**N002-SB014-4248-01**		
	Sample Depth (inches)	12-18			18-24			24-30			30-36			36-42			42-48		
	Sample Matrix	Soil			Soil			Soil			Soil			Soil			Soil		
	Sample Date	3/2/2016			3/2/2016			3/2/2016			3/2/2016			3/2/2016			3/2/2016		
	Sample Result	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty
Radioisotope	**[1]EPA SSAL**																		
Actinium-228 (Ac-228)	126,000	ND			ND			ND			ND			ND			ND		
Bismuth-212 (Bi-212)	6,330,000	2.424		2.573	2.123		1.958	3.891		2.113	1.170		2.024	0.051		3.220	2.740		1.565
Bismuth-214 (Bi-214)	1,290,000	ND			ND			ND			ND			ND			ND		
Cesium-137 (Cs-137)	11	0.000		0.017	0.000		0.163	0.100		0.179	0.000		0.128	0.050		0.155	0.000		0.150
Lead-210 (Pb-210)	418	0.496		3.816	8.829		23.533	1.467		4.28	0.000		4.841	0.417		3.763	0.000		7.618
Lead-212 (Pb-212)	661,000	1.583		0.340	1.208		0.296	1.326		0.337	1.234		0.286	1.282		0.320	1.245		0.284
Lead-214 (Pb-214)	7,200,000	ND			ND			ND			ND			ND			ND		
Potassium-40 (K-40)	25.9	22.141		4.426	20.18		3.755	18.866		4.291	20.177		3.719	24.179		4.897	20.307		3.744
Radium-226* (Ra-226)	2.48	1.573		0.428	1.719		0.373	1.639		0.439	1.446		0.355	1.486		0.327	1.289		0.287
Radium-228 (Ra-228)	15.9	1.523		0.508	1.311		0.58	1.294		0.648	1.616		0.517	1.457		0.611	2.015		0.498
Thallium-208 (Tl-208)	2,430,000	0.417		0.153	0.549		0.166	0.496		0.162	0.475		0.172	0.543		0.179	0.472		0.180
Thorium-228 (Th-228)	14,100	1.23	N2	0.477	1.20	N2	0.399	1.19	N2	0.388	1.18	N2	0.374	1.09	N2	0.359	0.954	N2	0.343
Thorium-230 (Th-230)	2,090	0.698	N2	0.341	1.07	N2	0.364	0.826	N2	0.298	0.980	N2	0.324	1.07	N2	0.346	0.966	N2	0.332
Thorium-232 Th-232)	5.12	0.896	N2	0.389	0.887	N2	0.322	0.759	N2	0.281	0.981	N2	0.321	1.07	N2	0.345	0.666	N2	0.266
Thorium-234 Th-234)	47,900	0.086		2.555	0.000		2.823	3.409		2.576	1.205		4.962	1.552		1.934	0.000		3.495
Uranium-233/234 (U-233/234)	NS	0.982	N2	0.277	1.03	N2	0.290	1.07	N2	0.296	0.853	N2	0.257	1.18	N2	0.316	0.770	N2	0.231
Uranium-235/236 (U-235/236)	NS	0.046	N2	0.066	0.093	N2	0.083	0.076	N2	0.075	0.072	N2	0.077	1.18	N2	0.316	0.052	N2	0.063
Uranium-235 (U-235)	39.2	0.328		0.171	0.149		0.167	0.179		0.192	0.274		0.262	0.243		0.248	0.051		0.173
Uranium-238 (U-238)	3,720	0.889	N2	0.260	0.962	N2	0.273	1.21	N2	0.320	1.00	N2	0.284	0.045	N2	0.069	0.801	N2	0.237

	Location No.	Rinsate Blank			Rinsate Blank			Rinsate Blank		
	RST 3 Sample No.	**RB-N-160301**			**RB-N-160302**			**RB-N-160303**		
	Sample Depth (inches)	NA			NA			NA		
	Sample Matrix	Aqueous			Aqueous			Aqueous		
	Sample Date	3/1/2016			3/2/2016			3/3/2016		
	Sample Result	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty
Radioisotope	**[1]EPA SSAL**									
Actinium-228 (Ac-228)	126,000	ND			ND			ND		
Bismuth-212 (Bi-212)	6,330,000	ND			ND			ND		
Bismuth-214 (Bi-214)	1,290,000	ND			ND			ND		
Cesium-137 (Cs-137)	11	ND			ND			ND		
Lead-210 (Pb-210)	418	ND			ND			ND		
Lead-212 (Pb-212)	661,000	ND			ND			ND		
Lead-214 (Pb-214)	7,200,000	ND			ND			ND		
Potassium-40 (K-40)	25.9	ND			ND			ND		
Radium-226* (Ra-226)	2.48	NA			NA			NA		
Radium-228 (Ra-228)	15.9	NA			NA			NA		
Thallium-208 (Tl-208)	2,430,000	ND			ND			ND		
Thorium-228 (Th-228)	14,100	0.024		0.102	0.011	N2	0.063	0.000	N2	0.074
Thorium-230 (Th-230)	2,090	0.007		0.042	0.000	N2	0.035	0.019	N2	0.073
Thorium-232 Th-232)	5.12	0		0.042	0.000	N2	0.035	0.000	N2	0.073
Thorium-234 Th-234)	47,900	ND			ND			ND		
Uranium-233/234 (U-233/234)	NS	0.131		0.13	0.048	N2	0.085	0.034	N2	0.085
Uranium-235/236 (U-235/236)	NS	0.000		0.135	0.000	N2	0.111	0.031	N2	0.111
Uranium-235 (U-235)	39.2	ND			ND			ND		
Uranium-238 (U-238)	3,720	0.051		0.104	0.018	N2	0.085	0.024	N2	0.085
Radium-226**	NS	0.0555		0.253	0.115		0.263	0.000		0.260
Radium-228***	NS	0.000		0.299	0.000		0.320	0.000		0.253

Notes:

RST 3 - Removal Support Team 3.

No. - Number; ND - Not detected; NA - Not Applicable.

N2 - The laboratory does not hold The NELAC Institute (TNI) accreditation for this parameter.

pCi/g - picocuries per gram; µg/L - micrograms per liter.

[1]U.S. Environmental Protection Agency (EPA) Site-Specific Action Level (SSAL) values are presented in pCi/g.

Values in red highlighted in yellow equal or exceed the EPA SSAL for the respective radioisotope.

Radium-226* (21-day ingrowth) analyzed by gamma spectroscopy via EPA 901.1 modified (soil only).

Radium-226** analyzed via EPA Method 903.1 (aqueous only).