Table 8A
Validated Soil Analytical Results Summary Table - Radioisotopes
Niagara Falls Boulevard Radiological Site
Niagara Falls Boulevard, Niagara Falls, New York
August 2015

	Location No.	N001-SS001			N001-SS002			N001-SS003			N001-SS004			N001-SS005			N001-SS006	
	RST 3 Sample No.	**N001-SS001-1224-01**			**N001-SS002-1224-01**			**N001-SS003-0012-01**			**N001-SS004-0012-01**			**N001-SS005-1830-01**			**N001-SS006-0012-01**	
	Sample Depth (inches)	12 - 24			12 - 24			0 - 12			0 - 12			18 - 30			0 - 12	
	Sample Matrix	Soil			Soil			Soil			Soil			Soil			Soil	
	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
Radioisotope	**1EPA SSAL**																	
Actinium-228 (Ac-228)	126,000	1.01		0.32	0.7		0.2	0.95		0.29	1.25		0.37	1.28		0.41	11.5	
Bismuth-212 (Bi-212)	6,330,000	ND			ND			ND			ND			ND			13.3	
Bismuth-214 (Bi-214)	1,290,000	0.68	R	0.21	0.85	R	0.21	0.96	R	0.23	0.87	R	0.23	1.37	R	0.3	4.07	R
Cesium-137 (Cs-137)	11	0.22	J	0.09	0.2	J	0.07	0.14	J	0.09	ND			0.14	J	0.08	0.28	J
Lead-210 (Pb-210)	418	ND			ND			ND			ND			ND			ND	
Lead-212 (Pb-212)	661,000	0.99		0.24	1		0.2	1.02		0.24	1.02		0.22	1.65		0.32	12.4	
Lead-214 (Pb-214)	7,200,000	0.84	R	0.22	0.99	R	0.18	0.99	R	0.21	1.08	R	0.24	1.76	R	0.31	4.6	R
Potassium-40 (K-40)	25.9	14.9		2.85	13.2		2.15	17.7		2.96	20.4		3.25	15.6		3.08	13.5	
Radium-226* (Ra-226)	2.48	0.86		0.23	0.71		0.17	0.96		0.25	1.13		0.28	1.62		0.30	4.43	
Radium-228 (Ra-228)	15.9	1.01		0.32	0.7		0.2	0.95		0.29	1.25		0.37	1.28		0.41	11.5	
Thallium-208 (Tl-208)	2,430,000	0.38		0.12	0.36		0.08	0.44		0.11	0.49		0.13	0.5		0.15	4.39	
Thorium-228 (Th-228)	14,100	0.81		0.17	1.13		0.22	0.94		0.19	0.94		0.2	1.36		0.24	10.8	
Thorium-230 (Th-230)	2,090	0.84		0.17	1.22		0.23	1.04		0.2	1.06		0.21	1.03		0.2	3.96	
Thorium-232 Th-232)	5.01	0.71		0.16	0.96		0.2	0.92		0.19	1		0.2	1.39		0.24	9.56	
Thorium-234 Th-234)	47,900	ND			ND			ND			ND			ND			ND	
Uranium-233/234 (U-233/234)	NS	0.79		0.19	1.63		0.28	1.12		0.22	0.87		0.2	0.79		0.18	3.35	
Uranium-235/236 (U-235/236)	NS	0.03	J	0.04	0.07	J	0.06	ND			ND			0.07	J	0.06	0.13	J
Uranium-235 (U-235)	39.2	ND			ND			ND			ND			ND			ND	
Uranium-238 (U-238)	3,720	0.8		0.19	1.09		0.22	1.03		0.21	0.78		0.18	1.05		0.21	3.92	

	Location No.	N002-SS001			N002-SS002			N002-SS003			N002-SS004			N002-SS005			N002-SS006	
	RST 3 Sample No.	**N002-SS001-0012-01**			**N002-SS002-0012-01**			**N002-SS003-0012-01**			**N002-SS004-0012-01**			**N002-SS005-0012-01**			**N002-SS006-2436-01**	
	Sample Depth (inches)	0 - 12			0 - 12			0 - 12			0 - 12			0 - 12			24 - 36	
	Sample Matrix	Soil			Soil			Soil			Soil			Soil			Soil	
	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
Radioisotope	**1EPA SSAL**																	
Actinium-228 (Ac-228)	126,000	5.19		0.72	13.6		1.59	1.42		0.3	1.37		0.32	0.72		0.29	1	
Bismuth-212 (Bi-212)	6,330,000	5.81		1.81	16.1		2.92	1.93		0.59	2.29		0.98	ND			ND	
Bismuth-214 (Bi-214)	1,290,000	4.23	R	0.62	4.62	R	0.74	0.93	R	0.21	0.93	R	0.25	0.96	R	0.26	0.63	R
Cesium-137 (Cs-137)	11	ND			ND			ND			0.26	J	0.09	ND			ND	
Lead-210 (Pb-210)	418	ND			ND			ND			ND			ND			ND	
Lead-212 (Pb-212)	661,000	5.56		0.81	13.6		1.83	1.14		0.23	1.12		0.27	1.08		0.26	0.9	
Lead-214 (Pb-214)	7,200,000	4.81	R	0.64	4.58	R	0.67	0.89	R	0.18	0.94	R	0.22	0.94	R	0.26	0.71	R
Potassium-40 (K-40)	25.9	8.53		1.89	15.9		2.77	17		2.57	19.3		3.15	15.6		3	12.9	
Radium-226* (Ra-226)	2.48	4.13		0.53	4.6		0.68	1.08		0.22	0.87		0.25	0.96		0.28	0.86	
Radium-228 (Ra-228)	15.9	5.19		0.72	13.6		1.59	1.42		0.3	1.37		0.32	0.72		0.29	1	
Thallium-208 (Tl-208)	2,430,000	2.11		0.3	5.01		0.61	0.46		0.1	0.4		0.12	0.41		0.12	0.31	
Thorium-228 (Th-228)	14,100	3.94		0.5	7.97		0.85	1.12		0.22	0.94		0.18	0.86		0.18	0.89	

Table 8A
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Niagara Falls Boulevard, Niagara Falls, New York
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Thorium-230 (Th-230)	Thorium-230 (Th-230)	2,090	3.1		0.42	3.18		0.43	1.18		0.22	0.87		0.17	0.9	
Thorium-232 Th-232)	Thorium-232 Th-232)	5.01	3.41		0.45	7.17		0.78	1.06		0.21	0.87		0.17	0.9	
Thorium-234 Th-234)	Thorium-234 Th-234)	47,900	ND			ND			ND			ND			ND	
Uranium-233/234 (U-233/234)	Uranium-233/234 (U-233/234)	NS	2.67		0.38	2.5		0.37	1.41		0.25	1.31		0.25	0.72	
Uranium-235/236 (U-235/236)	Uranium-235/236 (U-235/236)	NS	0.05	J	0.05	0.2	J	0.1	0.04	J	0.04	0.06	J	0.06	0.08	J
Uranium-235 (U-235)	Uranium-235 (U-235)	39.2	ND			ND			ND			ND			ND	
Uranium-238 (U-238)	Uranium-238 (U-238)	3,720	2.56		0.37	2.36		0.36	1.01		0.21	1.19		0.24	0.69	

Notes:

RST 3 - Removal Support Team 3.

No. - Number; NS - Not Specified; ND - Not detected.

J - An unusually uncertain or estimated result.

R - A rejected result, the problems (quantitative or qualitative) are so severe that the data cannot be used.

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

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

Notes:

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Table 8A
Validated Soil Analytical Results Summary Table - Radioisotopes
Niagara Falls Boulevard Radiological Site
Niagara Falls Boulevard, Niagara Falls, New York
August 2015

01-SS005	N001-SS006		N001-SS007					
S005-1830-01	**N001-SS006-0012-01**		**N001-SS007-0012-01**					
18 - 30	0 - 12		0 - 12					
Soil	Soil		Soil					
		Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty
Actinium-228 (Ac-228)		0.41	11.5		1.39	0.76		0.22
Bismuth-212 (Bi-212)			13.3		2.45	ND		
Bismuth-214 (Bi-214)		0.3	4.07	R	0.57	1.11	R	0.23
Cesium-137 (Cs-137)		0.08	0.28	J	0.12	ND		
Lead-210 (Pb-210)			ND			ND		
Lead-212 (Pb-212)		0.32	12.4		1.7	0.83		0.2
Lead-214 (Pb-214)		0.31	4.6	R	0.67	1.42	R	0.26
Potassium-40 (K-40)		3.08	13.5		2.36	13.9		2.29
Radium-226* (Ra-226)		0.30	4.43		0.68	1.27		0.29
Radium-228 (Ra-228)		0.41	11.5		1.39	0.76		0.22
Thallium-208 (Tl-208)		0.15	4.39		0.55	0.31		0.09
Thorium-228 (Th-228)		0.24	10.8		1.09	0.83		0.19
Thorium-230 (Th-230)		0.2	3.96		0.5	1.06		0.21
Thorium-232 Th-232)		0.24	9.56		0.99	0.82		0.18
Thorium-234 Th-234)			ND			ND		
Uranium-233/234 (U-233/234)		0.18	3.35		0.44	0.71		0.17
Uranium-235/236 (U-235/236)		0.06	0.13	J	0.08	0.07	J	0.06
Uranium-235 (U-235)			ND			ND		
Uranium-238 (U-238)		0.21	3.92		0.49	0.81		0.18

02-SS005	N002-SS006		N002-TRENCH					
S005-0012-01	**N002-SS006-2436-01**		**N002-TRENCH-0003-01**					
0 - 12	24 - 36		0 - 3					
Soil	Soil		Soil					
		Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty
Actinium-228 (Ac-228)		0.29	1		0.32	ND		
Bismuth-212 (Bi-212)			ND			ND		
Bismuth-214 (Bi-214)		0.26	0.63	R	0.21	ND		
Cesium-137 (Cs-137)			ND			ND		
Lead-210 (Pb-210)			ND			ND		
Lead-212 (Pb-212)		0.26	0.9		0.22	0.16		0.06
Lead-214 (Pb-214)		0.26	0.71	R	0.2	0.29	R	0.1
Potassium-40 (K-40)		3	12.9		2.59	0.89	J	0.61
Radium-226* (Ra-226)		0.28	0.86		0.23	0.3		0.13
Radium-228 (Ra-228)		0.29	1		0.32	0.15	J	0.13
Thallium-208 (Tl-208)		0.12	0.31		0.1	0.06		0.03
Thorium-228 (Th-228)		0.18	0.89		0.22	0.2	J+	0.11

Table 8A
Validated Soil Analytical Results Summary Table - Radioisotopes
Niagara Falls Boulevard Radiological Site
Niagara Falls Boulevard, Niagara Falls, New York
August 2015

Thorium-230 (Th-230)	0.19	0.79		0.2	0.35	J+	0.14
Thorium-232 Th-232)	0.19	1.02		0.24	0.17		0.1
Thorium-234 Th-234)		ND			ND		
Uranium-233/234 (U-233/234)	0.17	0.65		0.16	0.24		0.1
Uranium-235/236 (U-235/236)	0.06	0.05	J	0.05	ND		
Uranium-235 (U-235)		ND			ND		
Uranium-238 (U-238)	0.17	0.73		0.18	0.25		0.1

Notes:

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

Table 1
DRAFT Un-Validated 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

Table 1
DRAFT Un-Validated 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

Table 1
DRAFT Un-Validated Soil Analytical Results Summary Table - Radioisotopes
Niagara Falls Boulevard Radiological Site
Niagara Falls Boulevard, Niagara Falls, New York
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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

Table 1
DRAFT Un-Validated 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

Table 1
DRAFT Un-Validated 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

Table 1
DRAFT Un-Validated 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

Table 1
DRAFT Un-Validated 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

Table 1
DRAFT Un-Validated 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

Table 1
DRAFT Un-Validated 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

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

	Location No.	BKGRD-S001			BKGRD-S002			BKGRD-S003			BKGRD-S004			BKGRD-S005			BKGRD-S006			BKGRD-S007			BKGRD-S008		
	RST 3 Sample No.	**BKGRD-S001-0006-01**			**BKGRD-S002-0006-01**			**BKGRD-S003-0006-01**			**BKGRD-S004-0006-01**			**BKGRD-S005-0006-01**			**BKGRD-S006-0006-01**			**BKGRD-S007-0006-01**			**BKGRD-S008-0006-01**		
	Sample Depth (inches)	0-6			0-6			0-6			0-6			0-6			0-6			0-6			0-6		
	Sample Matrix	Soil			Soil			Soil			Soil			Soil			Soil			Soil			Soil		
	Sample Date	8/23/2016			8/23/2016			8/23/2016			8/23/2016			8/23/2016			8/23/2016			8/23/2016			8/23/2016		
	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	Value (pCi/g)	Qualifier	Total Uncertainty
Radioisotope	**1EPA SSAL**																								
Bismuth-212 (Bi-212)	6,330,000	0.79474	J	1.778	0.22764	U	1.927	0	U	1.21	1.817		1.521	1.695	J	1.866	2.682		1.412	1.945		1.494	-0.39796	U	2.588
Cesium-137 (Cs-137)	11	0.298		0.11	0.44		0.131	0.298		0.162	0.191		0.142	0.16016	J	0.272	0.429		0.127	0.624		0.193	0.574		0.142
Lead-212 (Pb-212)	661,000	1.056		0.258	1.007		0.237	1.154		0.287	0.886		0.233	0.992		0.305	1.045		0.248	0.76		0.287	1.025		0.266
Potassium-40 (K-40)	25.9	17.336		3.752	16.021		3.208	16.122		3.673	19.715		3.617	19.348		4.395	17.817		3.342	20.004		4.062	19.818		3.632
Radium-226* (Ra-226)	2.48	1.285		0.31	1.062		0.27	1.375		0.377	1.206		0.306	1.345		0.4	1.343		0.346	1.329		0.325	1.289		0.348
Radium-228 (Ra-228)	15.9	1.011		0.422	0.992		0.332	1.173		0.391	1.136		0.371	1.293		0.441	1.655		0.455	1.677		0.513	1.49		0.39
Thallium-208 (Tl-208)	2,430,000	0.286		0.22	0.433		0.149	0.352		0.153	0.269		0.141	0.426		0.153	0.407		0.138	0.475		0.158	0.413		0.126
Thorium-228 (Th-228)	14,100	0.646	N2	0.286	0.848	N2	0.3	0.757	N2	0.282	0.766	N2	0.304	0.725	N2	0.308	0.85	N2	0.282	0.967	N2	0.302	0.781	N2	0.273
Thorium-230 (Th-230)	2,090	0.57	N2	0.257	0.722	N2	0.257	0.648	N2	0.249	0.706	N2	0.294	0.759	N2	0.296	0.946	N2	0.295	0.823	N2	0.266	0.925	N2	0.288
Thorium-232 Th-232)	5.01	0.595	N2	0.255	0.634	N2	0.236	0.751	N2	0.269	0.715	N2	0.271	0.835	N2	0.306	0.728	N2	0.249	0.938	N2	0.286	0.863	N2	0.275
Thorium-234 Th-234)	47,900	3.028		1.759	2.252	J	3.734	0.04646	U	2.4	0.88356	U	1.531	2.0529	J	2.091	1.9872	U	1.704	3.679		2.214	2.4589	J	4.268
Uranium-233/234 (U-233/234)	NS	0.846	N2	0.273	0.762	N2	0.25	0.456	N2	0.204	0.81	N2	0.274	0.893	N2	0.289	0.866	N2	0.261	1.04	N2	0.294	0.967	N2	0.287
Uranium-235/236 (U-235/236)	NS	0.055	N2	0.079	0.037	N2	0.077	0.037	N2	0.076	0.094	N2	0.093	0.159	N2	0.125	0.164	N2	0.117	0.049	N2	0.07	0.039	N2	0.071
Uranium-235 (U-235)	39.2	0.194		0.183	0.10278	J	0.165	0.268		0.137	0.187		0.16	0.10974	J	0.171	0.0482	U	0.175	0.237		0.134	0.209		0.13
Uranium-238 (U-238)	3,720	0.833	N2	0.267	0.879	N2	0.271	0.794	N2	0.255	0.943	N2	0.297	0.982	N2	0.304	0.917	N2	0.269	1.08	N2	0.302	1	N3	0.287

	Location No.	BKGRD-S009			BKGRD-S010			BKGRD-S011			BKGRD-S012			BKGRD-S013			BKGRD-S014			BKGRD-S015			BKGRD-S015		
	RST 3 Sample No.	**BKGRD-S009-0006-01**			**BKGRD-S010-0006-01**			**BKGRD-S011-0006-01**			**BKGRD-S012-0006-01**			**BKGRD-S013-0006-01**			**BKGRD-S014-0006-01**			**BKGRD-S015-0006-01**			**BKGRD-S015-0006-02**		
	Sample Depth (inches)	0-6			0-6			0-6			0-6			0-6			0-6			0-6			0-6		
	Sample Matrix	Soil			Soil			Soil			Soil			Soil			Soil			Soil			Soil		
	Sample Date	8/23/2016			8/23/2016			8/23/2016			8/23/2016			8/23/2016			8/23/2016			8/23/2016			8/23/2016		
	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	Value (pCi/g)	Qualifier	Total Uncertainty
Radioisotope	**1EPA SSAL**																								
Bismuth-212 (Bi-212)	6,330,000	1.901	J	1.094	1.423	J	0.962	2.276		1.265	1.0022	J	0.763	1.3841	J	1.252	1.7776	J	1.353	1.2251	J	1.7	0.66035	U	0.768
Cesium-137 (Cs-137)	11	0.372		0.145	0.483		0.159	0.468		0.189	0.236		0.093	0.448		0.143	0.354		0.138	0.679		0.187	0.453		0.152
Lead-212 (Pb-212)	661,000	1.214		0.302	1.307		0.31	1.218		0.329	1.287		0.288	1.127		0.301	0.893		0.237	1.313		0.31	1.211		0.289
Potassium-40 (K-40)	25.9	18.439		4.048	19.493		3.847	19.75		4.754	21.792		3.766	17.358		3.859	19.245		3.52	21.356		4.484	20.033		4.173
Radium-226* (Ra-226)	2.48	1.286		0.316	1.406		0.353	1.478		0.312	1.403		0.32	1.362		0.314	1.141		0.322	1.28		0.365	1.278		0.316
Radium-228 (Ra-228)	15.9	1.152		0.469	1.441		0.446	0.9026	J	0.549	1.175		0.532	0.97784	J	0.55	1.662		0.47	0.71923	J	0.321	0.985		0.465
Thallium-208 (Tl-208)	2,430,000	0.456		0.179	0.434		0.16	0.533		0.17	0.394		0.118	0.302		0.195	0.458		0.152	0.492		0.155	0.489		0.162
Thorium-228 (Th-228)	14,100	0.811	N2	0.27	0.836	N2	0.299	0.761	N2	0.277	1.11	N2	0.332	0.783	N2	0.282	0.644	N2	0.233	0.925	N2	0.297	0.557	N2	0.226
Thorium-230 (Th-230)	2,090	0.846	N2	0.277	0.938	N2	0.301	1.04	N2	0.314	1.09	N2	0.327	0.981	N2	0.32	0.666	N2	0.231	0.892	N2	0.277	0.759	N2	0.254
Thorium-232 Th-232)	5.01	0.686	N2	0.236	0.877	N2	0.285	0.866	N2	0.279	0.866	N2	0.276	1.02	N2	0.32	0.923	N2	0.278	0.687	N2	0.235	0.737	N2	0.246
Thorium-234 Th-234)	47,900	0.04767		2.6	5.253		4.337	1.8436	J	2.226	0.43652	U	4.364	0.54885	U	2.393	0.13879	U	4.048	0.61892	U	2.833	0.96944	U	2.459
Uranium-233/234 (U-233/234)	NS	1.05	N2	0.308	1.06	N2	0.31	1.1	N2	0.294	1.2	N2	0.356	0.936	N2	0.266	0.762	N2	0.234	1.15	N2	0.353	1.09	N2	0.308
Uranium-235/236 (U-235/236)	NS	0.085	N2	0.085	0.125	N2	0.106	0.085	N2	0.076	0.184	N2	0.135	0.07	N2	0.069	0.058	N2	0.069	0.046	N2	0.095	0.173	N2	0.121
Uranium-235 (U-235)	39.2	0.05080		0.153	0.241		0.168	0.262		0.22	0.175		0.172	0.16827	J	0.148	0.185		0.23	0.15317	J	0.154	0.165		0.121
Uranium-238 (U-238)	3,720	1.11	N2	0.316	1.22	N2	0.338	0.895	N2	0.253	1.25	N2	0.357	1.04	N2	0.281	1.19	N2	0.31	0.845	N2	0.289	0.938	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.

1U.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
DRAFT Un-Validated Soil Analytical Results Summary Table - Radioisotopes
Niagara Falls Boulevard Radiological Site
Niagara Falls Boulevard, Niagara Falls, New York
March 2016

	Location No.	N002-OF-AI09			N002-OF-AE09			N002-OF-AM10			N002-OF-AL03			N002-OF-AP03			N002-OF-AH02			N002-OF-AB11		
	RST 3 Sample No.	**N002-OF-AI09-01-01**			**N002-OF-AE09-01-01**			**N002-OF-AM10-01-01**			**N002-OF-AL03-01-01**			**N002-OF-AP03-01-01**			**N002-OF-AH02-01-01**			**N002-OF-AB11-01-01**		
	Sample Depth (inches)	0-4			0-4			0-4			0-4			0-4			0-4			0-4		
	Sample Matrix	Soil			Soil			Soil			Soil			Soil			Soil			Soil		
	Sample Date	8/4/2016			8/16/2016			8/16/2013			9/9/2016			9/9/2016			9/22/2016			9/22/2016		
	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	**1EPA SSAL**																					
Bismuth-212 (Bi-212)	6,330,000	2.763		1.409	3.148		1.45	0.71709	U	2.388	1.7424	J	1.533	2.116		1.653	1.5066	J	1.552	0.55166	U	0.66
Cesium-137 (Cs-137)	11	0.06853	J	0.07	0.00566	U	0.185	0.00443	U	0.123	0	U	0.069	0.00120	U	0.12	0.02881	U	0.137	0.02612	U	0.084
Lead-212 (Pb-212)	661,000	1.56		0.328	1.123		0.314	1.419		0.335	1.578		0.349	1.148		0.265	1.051		0.28	1.775		0.367
Potassium-40 (K-40)	25.9	24.689		4.362	19.847		4.224	29.439		4.933	24.543		4.752	19.561		3.478	19.046		4.217	23.558		4.666
Radium-226* (Ra-226)	2.48	1.416		0.355	1.566		0.374	0.784		0.284	1.411		0.302	1.448		0.272	1.476		0.338	1.753		0.372
Radium-228 (Ra-228)	15.9	1.447		0.421	1.248		0.545	1.327		0.459	1.966		0.6	1.416		0.396	1.133		0.462	1.526		0.489
Thallium-208 (Tl-208)	2,430,000	0.551		0.159	0.385		0.15	0.403		0.183	0.497		0.163	0.507		0.124	0.285		0.152	0.481		0.183
Thorium-234 Th-234)	47,900	1.4366	U	2.67	0.29579	U	2.627	0.57911	U	4.981	2.6505	J	2.12	3.004	J	2.41	2.0909	J	1.931	3.776		1.942
Uranium-235 (U-235)	39.2	0.84457	J	1.507	0.6174	J	1.409	0	U	0.515	0.95084	J	1.482	0.28908	U	0.388	0.91787	J	1.07	0.45187	U	1.658
Thorium-228 (Th-228)	14,100	1.45		0.553	1.08		0.363	1.18		0.457	1.51		0.509	1.04		0.414	0.396		0.207	1.31		0.504
Thorium-230 (Th-230)	2,090	0.554		0.294	0.791		0.283	0.818		0.365	0.999		0.376	0.87		0.352	0.403		0.23	1.42		0.506
Thorium-232 Th-232)	5.01	0.79		0.353	0.699		0.261	1.24		0.436	1.03		0.379	0.622		0.29	0.527		0.231	0.841		0.372
Uranium-233/234 (U-233/234)	NS	0.786		0.236	0.932		0.279	0.804		0.248	0.97		0.271	0.677		0.243	0.959		0.298	1.11		0.308
Uranium-235/236 (U-235/236)	NS	0.031		0.064	0.103		0.092	0.058		0.078	0.031		0.063	0.109		0.097	0.042		0.08	0.074		0.078
Uranium-238 (U-238)	3,720	0.613		0.202	1.16		0.32	0.937		0.272	0.836		0.245	0.967		0.281	1.04		0.309	0.979		0.282

	Location No.	N002-OF-AD13			N002-OF-AF06			N002-OF-AK06			N002-OF-AN06			N002-OF-AJ11			N002-OF-AP11			N002-OF-AD02		
	RST 3 Sample No.	**N002-OF-AD13-01-01**			**N002-OF-AF06-01-01**			**N002-OF-AK06-01-01**			**N002-OF-AN06-01-01**			**N002-OF-AJ11-01-01**			**N002-OF-AP11-01-01**			**N002-OF-AD02-01-01**		
	Sample Depth (inches)	0-4			0-4			0-4			0-4			0-4			0-4			0-4		
	Sample Matrix	Soil			Soil			Soil			Soil			Soil			Soil			Soil		
	Sample Date	9/22/2016			9/23/2016			9/23/2016			9/23/2016			9/23/2016			9/23/2016			9/23/2016		
	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	**1EPA SSAL**																					
Bismuth-212 (Bi-212)	6,330,000	0.55582	U	0.427	1.4684	J	2.544	1.343	J	0.966	0.19746	U	2.463	3.074		1.827	0.82828	U	2.713	2.1381	J	1.966
Cesium-137 (Cs-137)	11	0.05378	J	0.123	0.05017	J	0.141	0	U	0.071	0.00236	U	0.137	0.07853	J	0.119	0	U	0.075	0.01945	U	0.132
Lead-212 (Pb-212)	661,000	1.175		0.269	1.401		0.306	0.859		0.244	1.364		0.324	1.31		0.298	1.33		0.311	1.422		0.319
Potassium-40 (K-40)	25.9	25.886		4.32	18.527		3.7	20.689		3.667	21.125		4.598	18.836		3.951	23.45		4.516	23.928		4.671
Radium-226* (Ra-226)	2.48	1.352		0.339	1.368		0.299	1.699		0.338	1.362		0.366	1.499		0.299	2.058		0.454	1.614		0.333
Radium-228 (Ra-228)	15.9	2.079		0.465	1.451		0.539	1.137		0.61	1.35		0.51	1.726		0.558	1.366		0.49	1.47		0.496
Thallium-208 (Tl-208)	2,430,000	0.516		0.124	0.496		0.139	0.484		0.145	0.372		0.183	0.407		0.133	0.531		0.166	0.437		0.153
Thorium-234 Th-234)	47,900	1.2809	U	1.965	3.6847	J	2.16	0	U	1.567	0	U	1.586	3.431		1.793	1.9067	J	2.18	2.928		1.947
Uranium-235 (U-235)	39.2	1.514		1.34	0	U	0.431	0.35351	U	1.569	1.0357	J	1.085	0.77266	J	1.037	0.70445	U	1.214	0.92024	J	1.024
Thorium-228 (Th-228)	14,100	1.11		0.464	0.914		0.346	0.926		0.386	0.805		0.312	1.09		0.378	1.24		0.518	0.857		0.387
Thorium-230 (Th-230)	2,090	0.871		0.38	0.659		0.3	0.917		0.352	0.842		0.303	0.583		0.256	1.04		0.464	0.875		0.365
Thorium-232 Th-232)	5.01	0.968		0.393	0.892		0.317	1.01		0.371	0.582		0.239	0.689		0.274	1.16		0.476	0.669		0.304
Uranium-233/234 (U-233/234)	NS	1.11		0.3	0.793		0.247	0.902		0.3	0.882		0.262	0.968		0.27	1.39		0.383	0.763		0.24
Uranium-235/236 (U-235/236)	NS	0.047		0.068	0.051		0.066	0.124		0.11	0.001		0.069	0.073		0.07	0.11		0.098	0.02		0.069
Uranium-238 (U-238)	3,720	1.01		0.282	0.857		0.254	0.938		0.302	0.837		0.253	0.989		0.27	1.32		0.36	0.88		0.261

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.
1U.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).