

TABLE 4-4
PONDED WATER ANALYTICAL RESULTS
NIAGARA FALLS STORAGE SITE - VICINITY PROPERTY H'

Location Identifier		WS-01	WS-02	WS-03	WS-04	WS-05
Field Sample Identifier		SW-H-C2-08	SW-H-C2-10	SW-H-C2-11a	SW-H-C151-04	SW-H-C151-10
Sample Matrix		Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)		-	-	-	-	-
Date of Sample		12/03/18	11/30/18	11/30/18	11/29/18	11/30/18
Parameter	Units					
RADIONUCLIDES						
RADIUM-226	PCI/L					
RADIUM-228	PCI/L					
THORIUM-228	PCI/L	1.087	0.221			
THORIUM-230	PCI/L					
THORIUM-232	PCI/L					
URANIUM-234	PCI/L	R	3.207	1.213	2.952	1.328
URANIUM-235	PCI/L	R	0.177			
URANIUM-238	PCI/L	R	2.995	1.423	2.98	1.32
RADIONUCLIDES (FILTERED)						
RADIUM-226	PCI/L				0.14 J+	
RADIUM-228	PCI/L					
THORIUM-228	PCI/L	0.599	0.252	0.281	0.123	0.44
THORIUM-230	PCI/L		0.032	0.03 J	0.052	0.034
THORIUM-232	PCI/L					
URANIUM-234	PCI/L	1.516	3.871	1.396	3.605	1.143
URANIUM-235	PCI/L				0.109	
URANIUM-238	PCI/L	1.509	3.603	1.196	2.565	1.161
MISCELLANEOUS						
ALKALINITY, TOTAL	MG/L	293	Not Analyzed	Not Analyzed	299	Not Analyzed
BROMIDE	UG/L		Not Analyzed	Not Analyzed		Not Analyzed
CHLORIDE (AS CL)	UG/L	8,430	Not Analyzed	Not Analyzed	14,000	Not Analyzed

The qualifiers shown were assigned during chemistry validation.

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Sample Matrix		Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)		-	-	-	-	-
Date of Sample		12/03/18	11/30/18	11/30/18	11/29/18	11/30/18
Parameter	Units					
MISCELLANEOUS						
DISSOLVED SOLIDS, TOTAL	MG/L	419	Not Analyzed	Not Analyzed	483	Not Analyzed
FLUORIDE	UG/L	174	Not Analyzed	Not Analyzed	429	Not Analyzed
NITROGEN, NITRATE (AS N)	UG/L		Not Analyzed	Not Analyzed		Not Analyzed
NITROGEN, NITRITE (AS N)	UG/L		Not Analyzed	Not Analyzed		Not Analyzed
PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS PO4)	UG/L	91	Not Analyzed	Not Analyzed		Not Analyzed
SULFATE	UG/L	65,700	Not Analyzed	Not Analyzed	105,000	Not Analyzed

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Location Identifier		WS-06	WS-07	WS-08	WS-08
Field Sample Identifier		SW-H-C152-03	SW-H-C152-07	SW-H-C152-11	SW-H-C152-11-D
Sample Matrix		Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)		-	-	-	-
Date of Sample		11/29/18	11/30/18	11/29/18	11/29/18
Parameter	Units				Field Duplicate
RADIONUCLIDES					
RADIUM-226	PCI/L	0.1 J+			
RADIUM-228	PCI/L				
THORIUM-228	PCI/L		0.846		
THORIUM-230	PCI/L				
THORIUM-232	PCI/L				
URANIUM-234	PCI/L	0.774	0.628	R	R
URANIUM-235	PCI/L			R	R
URANIUM-238	PCI/L	0.813	0.7	R	R
RADIONUCLIDES (FILTERED)					
RADIUM-226	PCI/L				
RADIUM-228	PCI/L				
THORIUM-228	PCI/L		0.832		
THORIUM-230	PCI/L		0.066		
THORIUM-232	PCI/L				
URANIUM-234	PCI/L	1.049	0.664	R	R
URANIUM-235	PCI/L			R	R
URANIUM-238	PCI/L	0.774	0.718	R	R
MISCELLANEOUS					
ALKALINITY, TOTAL	MG/L	210	Not Analyzed	163	172
BROMIDE	UG/L		Not Analyzed		
CHLORIDE (AS CL)	UG/L	5,260	Not Analyzed	6,420	6,340

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Field Sample Identifier		SW-H-C152-03	SW-H-C152-07	SW-H-C152-11	SW-H-C152-11-D
Sample Matrix		Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)		-	-	-	-
Date of Sample		11/29/18	11/30/18	11/29/18	11/29/18
Parameter	Units				Field Duplicate
MISCELLANEOUS					
DISSOLVED SOLIDS, TOTAL	MG/L	269	Not Analyzed	227	227
FLUORIDE	UG/L	113	Not Analyzed	105	97.7
NITROGEN, NITRATE (AS N)	UG/L		Not Analyzed		
NITROGEN, NITRITE (AS N)	UG/L		Not Analyzed		
PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P _{O4})	UG/L		Not Analyzed		
SULFATE	UG/L	5,760	Not Analyzed	7,590	7,230

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