

TABLES

**Table 4-1
Proposed Soil Boring Coordinates and Depths
Highland Plaza Off-Site, Site No. C915293A
Tonawanda, New York**



Proposed Boring Number	NY State Plane Coordinate ● System, Zone NY W-3103		Proposed Boring Depth (ft bgs)
	Northing (y)	Easting (x)	
Highland Plaza On-Site (C915293)			
SB-55	1083700.1813	1075182.6630	8.0
SB-56	1083700.9023	1075162.1784	8.0
SB-57	1083707.4896	1075157.6474	8.0
SB-58	1083707.3876	1075145.4141	8.0
SB-59	1083707.5158	1075130.5346	8.0
SB-60	1083713.3867	1075063.9918	8.0
SB-61	1083712.1157	1075054.3655	8.0
SB-62	1083701.6388	1075048.7523	8.0
SB-63	1083700.5879	1075035.7300	8.0

Notes:

- = Coordinates were obtained from the final AutoCAD drawing that was produced for the site.
- ft amsl = feet above mean sea level.
- bgs = Below ground surface.

Table 4-2A
Summary of Shallow Fill Samples Collected from the Highland Plaza Off-Site Area
Highland Plaza Off-Site Area, Site No. C915293A
Tonawanda, New York



Sample ID	Date Sampled	Time Sampled	Interval Sampled *	Analytical Parameters	Sample Description and/or Location	Table Reference
Shallow Fill Samples +						
SS-12A	05/15/14	1030	0" - 6"	VOCs, PCBs, 1,4-Dioxane	Behind the former dry cleaner tenant space due west of the small door.	7-1A
AWSS-1	07/08/14	1120	6" - 12"	VOCs, 1,4-Dioxane	Central portion of the alley south of the service road. Sample description unknown.	7-1A
AWSS-2	07/08/14	1130	6" - 12"	VOCs, 1,4-Dioxane	Central portion of the alley south of the service road. Sample description unknown.	7-1A
AWSS-3	07/08/14	1145	6" - 12"	VOCs, 1,4-Dioxane	East end of the alley south of the service road. Sample description unknown.	7-1A
AWSS-6	10/18/15	0935	0" - 4"	VOCs, SVOCs, Pesticides, PCBs, Metals, 1,4-Dioxane	Soil with gravel from the east end of the alley north of the service road.	7-1A
AWSS-7	10/18/15	0955	0" - 4"	VOCs, SVOCs, Pesticides, PCBs, Metals, 1,4-Dioxane	Soil with gravel from the central portion of the alley north of the service road.	7-1A
AWSS-8	10/18/15	1020	0" - 4"	VOCs, 1,4-Dioxane	Soil with gravel from the central portion of the alley north of the service road.	7-1A
AWSS-9	10/18/15	1030	0" - 4"	VOCs, SVOCs, Pesticides, PCBs, Metals, 1,4-Dioxane	Soil with gravel from the west end of the alley north of the service road.	7-1A
AWSS-10	10/18/15	1100	0" - 4"	VOCs, 1,4-Dioxane	Soil with gravel from the west end of the alley north of the service road.	7-1A
AWSS-11	10/18/15	1115	0" - 4"	VOCs, SVOCs, Pesticides, PCBs, Metals, 1,4-Dioxane	Soil with gravel from the west end of the alley south of the service road.	7-1B
SB-20	10/15/15	0930	6" - 18"	VOCs, 1,4-Dioxane	Dark brown stained reworked clay from a boring on the 257 Highland Parkway property.	7-1B
SB-21	10/15/15	0950	12" - 20"	VOCs, 1,4-Dioxane	Dark brown stained reworked clay from a boring on the 257 Highland Parkway property.	7-1B
SB-22	10/15/15	1010	6" - 18"	VOCs, 1,4-Dioxane	Dark brown stained reworked clay from a boring east of the plaza and north of the service road.	7-1B
SB-23	10/15/15	1050	17" - 24"	VOCs, 1,4-Dioxane	Dark gray stained reworked clay from a boring east of the plaza and south of the service road.	7-1B
SB-24	10/15/15	1120	6" - 14"	VOCs, SVOCs, Pesticides, PCBs, Metals, 1,4-Dioxane	Black stained sand from a boring behind the former dry cleaning facility and south of the service road.	7-1B
SB-25	10/16/15	0900	16" - 20"	VOCs, 1,4-Dioxane	Dark gray stained reworked clay from a boring behind the dry cleaning facility and south of the service road.	7-1B
SB-27	10/15/15	1340	17" - 22"	VOCs, SVOCs, Pesticides, PCBs, Metals, 1,4-Dioxane	Dark gray stained reworked clay from a boring in the central portion of the alley; south of the service road.	7-1B

Table 4-2A
Summary of Shallow Fill Samples Collected from the Highland Plaza Off-Site Area
Highland Plaza Off-Site Area, Site No. C915293A
Tonawanda, New York



Sample ID	Date Sampled	Time Sampled	Interval Sampled *	Analytical Parameters	Sample Description and/or Location	Table Reference
Shallow Fill Samples (continued)						
SB-28	10/16/15	0945	10" - 22"	VOCs, SVOCs, Pesticides, PCBs, Metals, 1,4-Dioxane	Gravel and reworked clay from a boring in the central portion of the alley and south of the service road.	7-1B
SB-29	10/16/15	0820	17" - 22"	VOCs, 1,4-Dioxane	Dark brown stained reworked clay from a boring behind the former dry cleaning facility; center of service road.	7-1C
SB-35	05/04/17	1430	1.5' - 2.0'	VOCs, 1,4-Dioxane	Soil with gravel under the service road at east end of the plaza building.	7-1C
SB-37	05/04/17	0845	1.0' - 1.5'	VOCs, 1,4-Dioxane	Soil with gravel north of the service road behind the former dry cleaning facility.	7-1C
SB-39	05/04/17	1245	1.5' - 2.0'	VOCs, 1,4-Dioxane	Soil with gravel south of the service road behind the former dry cleaning facility.	7-1C
SB-45	06/20/17	1245	1.6' - 1.8'	VOCs	Soil with gravel near well MW-4 behind the former dry cleaning facility.	7-1C
SB-46	06/20/17	1400	1.8' - 2.0'	VOCs	Soil with some gravel under the service road behind the former dry cleaning facility.	7-1C
SB-47	06/21/17	0825	1.6' - 1.8'	VOCs	Soil with gravel under south side of the service road behind the former dry cleaning facility.	7-1C
SB-51	06/22/17	1340	1.2' - 1.4'	VOCs	Soil with gravel under the service road behind the former dry cleaning facility.	7-1C
SB-52	06/22/17	1240	1.6' - 1.8'	VOCs	Soil with gravel under the service road behind the former dry cleaning facility.	7-1C
SB-53	06/22/17	1105	1.0' - 1.2'	VOCs	Topsoil with some gravel south of the service road behind the former dry cleaning facility.	7-1D
MW-4	10/04/23	1245	0.0' - 2.0'	VOCs	Black gravelly fill encountered when installing the pipe bollard in front of well MW-4.	6-1, 7-1F

Notes:

- * = Sampled interval is given in inches or feet below ground surface.
 - + = Shallow fill samples consist of intermixed soil and fill above the native reddish brown silty clay.
 - VOCs = Volatile Organic Compounds.
 - SVOCs = Semivolatile Organic Compounds.
 - PCBs = Polychlorinated Biphenyls.
 - PFCs = Perfluorinated hydrocarbons.
- This table was checked and updated by GMM on August 26, 2024.

Table 4-2B
Summary of Shallow Subsurface Soil Samples (<8.0' Depth) Collected from the Highland Plaza Off-Site Area
Highland Plaza Off-Site Area, Site No. C915293A
Tonawanda, New York



Sample ID	Date Sampled	Time Sampled	Interval Sampled *	Analytical Parameters	Sample Description and/or Location	Table Reference
Shallow Subsurface Soil Samples						
SB-20	10/15/15	0940	7.0' - 8.0'	VOCs, 1,4-Dioxane	Native silty clay from a boring on the 257 Highland Parkway property.	7-4A
SB-21	10/15/15	1000	7.0' - 8.0'	VOCs, 1,4-Dioxane	Native silty clay from a boring on the 257 Highland Parkway property.	7-4A
SB-22	10/15/15	1035	7.0' - 8.0'	VOCs, 1,4-Dioxane	Native silty clay from a boring east of the plaza and north of the service road.	7-4A
SB-23	10/15/15	1110	6.0' - 7.0'	VOCs, 1,4-Dioxane	Native silty clay from a boring east of the plaza and south of the service road.	7-4A
SB-25	10/16/15	0910	6.0' - 7.0'	VOCs, 1,4-Dioxane	Native silty clay from a boring behind the former dry cleaning facility and south of the service road.	7-4A
SB-26	10/16/15	0920	17" - 22"	VOCs, 1,4-Dioxane	Native silty clay from a boring behind the former dry cleaning facility and south of the service road.	7-1D
SB-26	10/16/15	0930	7.0' - 8.0'	VOCs, 1,4-Dioxane	Native silty clay from a boring behind the former dry cleaning facility and south of the service road.	7-4A
SB-28	10/16/15	0958	7.0' - 8.0'	VOCs, 1,4-Dioxane	Native silty clay from a boring in the central portion of the alley and south of the service road.	7-4A
SB-29	10/16/15	0830	7.0' - 8.0'	VOCs, 1,4-Dioxane	Native silty clay from a boring behind the former dry cleaning facility in the center of the service road.	7-4A
SB-30	06/19/17	0915	7.0' - 8.0'	VOCs, SVOCs, Pesticides, PCBs, Metals	Native silty clay from a boring east of the plaza and south of the service road.	7-4A
SB-31	06/19/17	1030	7.0' - 8.0'	VOCs	Native silty clay from a boring east of the plaza and north of the service road.	7-4B
SB-32	06/19/17	1230	7.0' - 8.0'	VOCs	Native silty clay from a boring east of the plaza and south of the service road.	7-4B
SB-33	06/19/17	1400	0.0' - 4.0'	VOCs	Native silty clay from a boring east of the plaza and south of the service road.	7-1D, 7-2A
SB-33	06/19/17	1410	7.0' - 8.0'	VOCs	Native silty clay from a boring east of the plaza and south of the service road.	7-4B
SB-34	06/20/17	0845	7.0' - 8.0'	VOCs	Native silty clay from a boring east of the plaza and north of the service road.	7-4B
SB-35	05/04/17	1440	7.0' - 8.0'	VOCs, SVOCs, Pesticides, PCBs, Metals, 1,4-Dioxane	Native silty clay from a boring at the east end of the plaza building in the center of the service road.	7-4B
SB-36	05/04/17	1015	2.0' - 4.0'	VOCs, 1,4-Dioxane	Native silty clay from a boring behind the former dry cleaning facility and south of the service road.	7-2A

Table 4-2B
Summary of Shallow Subsurface Soil Samples (<8.0' Depth) Collected from the Highland Plaza Off-Site Area
Highland Plaza Off-Site Area, Site No. C915293A
Tonawanda, New York



Sample ID	Date Sampled	Time Sampled	Interval Sampled *	Analytical Parameters	Sample Description and/or Location	Table Reference
Shallow Subsurface Soil Samples (continued)						
SB-36	05/04/17	1025	4.0' - 6.0'	VOCs, 1,4-Dioxane	Native silty clay from a boring behind the former dry cleaning facility and south of the service road.	7-3A
SB-36	05/04/17	1030	7.0' - 8.0'	VOCs, SVOCs, Pesticides, PCBs, Metals, 1,4-Dioxane	Native silty clay from a boring behind the former dry cleaning facility and south of the service road.	7-4B
SB-37	05/04/17	0855	7.0' - 8.0'	VOCs, SVOCs, Pesticides, PCBs, Metals, 1,4-Dioxane	Native silty clay from a boring behind the former dry cleaning facility and just north of the service road.	7-4B
SB-38	06/21/17	1400	7.0' - 8.0'	VOCs	Native silty clay from a boring behind the former dry cleaning facility and just north of the service road.	7-4B
SB-39	05/04/17	1250	2.0' - 4.0'	VOCs, 1,4-Dioxane	Native silty clay from a boring behind the former dry cleaning facility and south of the service road.	7-2A
SB-39	05/04/17	1300	7.0' - 8.0'	VOCs, SVOCs, Pesticides, PCBs, Metals, 1,4-Dioxane	Native silty clay from a boring behind the former dry cleaning facility and south of the service road.	7-4B
SB-40	05/03/17	1540	0.5' - 2.0'	VOCs, SVOCs, Pesticides, PCBs, Metals, 1,4-Dioxane	Native silty clay from a boring behind the former dry cleaning facility and south of the service road.	7-1D
SB-40	05/03/17	1545	7.0' - 8.0'	VOCs, 1,4-Dioxane	Native silty clay from a boring behind the former dry cleaning facility and south of the service road.	7-4C
SB-41	06/22/17	1015	7.0' - 8.0'	VOCs	Native silty clay from a boring in the central portion of the alley and just north of the service road.	7-4C
SB-44	05/03/17	1350	0.5' - 2.0'	VOCs, SVOCs, Pesticides, PCBs, Metals, 1,4-Dioxane	Native silty clay from a boring in the central portion of the alley and south of the service road.	7-1D
SB-44	05/03/17	1400	7.0' - 8.0'	VOCs, SVOCs, Pesticides, PCBs, Metals, 1,4-Dioxane	Native silty clay from a boring in the central portion of the alley and south of the service road.	7-4C
SB-45	06/20/17	1245	2.0' - 2.2'	VOCs	Native silty clay from a boring near well MW-4 behind the former dry cleaning facility.	7-2A
SB-45	06/20/17	1250	7.0' - 8.0'	VOCs	Native silty clay from a boring near well MW-4 behind the former dry cleaning facility.	7-4C
SB-46	06/20/17	1405	7.0' - 8.0'	VOCs	Native silty clay from a boring behind the former dry cleaning facility in the center of the service road.	7-4C
SB-47	06/21/17	0805	3.5' - 4.0'	VOCs	Native silty clay from a boring behind the former dry cleaning facility in the south edge of the service road.	7-2A
SB-47	06/21/17	0815	7.0' - 8.0'	VOCs	Native silty clay from a boring behind the former dry cleaning facility in the south edge of the service road.	7-4C
SB-48	06/21/17	1005	7.0' - 8.0'	VOCs	Native silty clay from a boring behind the former dry cleaning facility and just north of the service road.	7-4C

Table 4-2B
Summary of Shallow Subsurface Soil Samples (<8.0' Depth) Collected from the Highland Plaza Off-Site Area
Highland Plaza Off-Site Area, Site No. C915293A
Tonawanda, New York



Sample ID	Date Sampled	Time Sampled	Interval Sampled *	Analytical Parameters	Sample Description and/or Location	Table Reference
Shallow Subsurface Soil Samples (continued)						
SB-49	06/21/17	1230	2.0' - 4.0'	VOCs	Native silty clay from a boring behind the former dry cleaning facility and just south of the service road.	7-2A
SB-49	06/21/17	1245	7.0' - 8.0'	VOCs	Native silty clay from a boring behind the former dry cleaning facility and just south of the service road.	7-4C
SB-50	06/22/17	0810	7.0' - 8.0'	VOCs	Native silty clay from a boring in the central portion of the alley and just north of the service road.	7-4C
SB-51	06/22/17	1340	3.8' - 4.0'	VOCs	Native silty clay from a boring behind the former dry cleaning facility in the center of the service road.	7-2A
SB-51	06/22/17	1345	7.0' - 8.0'	VOCs	Native silty clay from a boring behind the former dry cleaning facility in the center of the service road.	7-4D
SB-52	06/22/17	1240	3.8' - 4.0'	VOCs	Native silty clay from a boring behind the former dry cleaning facility in the center of the service road.	7-2A
SB-52	06/22/17	1250	7.0' - 8.0'	VOCs	Native silty clay from a boring behind the former dry cleaning facility in the center of the service road.	7-4D
SB-53	06/22/17	1105	3.6' - 3.8'	VOCs	Native silty clay from a boring behind the former dry cleaning facility near a resident's fence.	7-2A
SB-53	06/22/17	1115	7.0' - 8.0'	VOCs, PFCs	Native silty clay from a boring behind the former dry cleaning facility near a resident's fence.	7-4D
SB-54	06/20/17	1035	1.8' - 2.0'	VOCs	Native silty clay from a boring behind the former dry cleaning facility in the center of the service road.	7-1D
SB-54	06/20/17	1045	7.0' - 8.0'	VOCs	Native silty clay from a boring behind the former dry cleaning facility in the center of the service road.	7-4D
SB-55	10/02/23	0920	1.0' - 1.5'	VOCs	Native silty clay from a boring behind the credit union building and south of the service road.	6-2A, 7-1D
SB-55	10/02/23	0922	2.0' - 2.5'	VOCs	Native silty clay from a boring behind the credit union building and south of the service road.	6-2A, 7-2B
SB-55	10/02/23	0925	3.5' - 4.0'	VOCs	Native silty clay from a boring behind the credit union building and south of the service road.	6-2A, 7-2B
SB-55	10/02/23	0930	5.0' - 5.5'	VOCs	Native silty clay from a boring behind the credit union building and south of the service road.	6-2A, 7-3A
SB-55	10/02/23	0933	6.0' - 6.5'	VOCs	Native silty clay from a boring behind the credit union building and south of the service road.	6-2A, 7-4D
SB-55	10/02/23	0935	7.5' - 8.0'	VOCs	Native silty clay from a boring behind the credit union building and south of the service road.	6-2A, 7-4D

Table 4-2B
Summary of Shallow Subsurface Soil Samples (<8.0' Depth) Collected from the Highland Plaza Off-Site Area
Highland Plaza Off-Site Area, Site No. C915293A
Tonawanda, New York



Sample ID	Date Sampled	Time Sampled	Interval Sampled *	Analytical Parameters	Sample Description and/or Location	Table Reference
Shallow Subsurface Soil Samples (continued)						
SB-56	10/02/23	0950	1.0' - 1.5'	VOCs	Native silty clay from a boring behind the credit union parking lot and south of the service road.	6-2B, 7-1D
SB-56	10/02/23	0953	2.0' - 2.5'	VOCs	Native silty clay from a boring behind the credit union parking lot and south of the service road.	6-2B, 7-2B
SB-56	10/02/23	0955	3.5' - 4.0'	VOCs	Native silty clay from a boring behind the credit union parking lot and south of the service road.	6-2B, 7-2B
SB-56	10/02/23	1000	5.0' - 5.5'	VOCs	Native silty clay from a boring behind the credit union parking lot and south of the service road.	6-2B, 7-3A
SB-56	10/02/23	1003	6.0' - 6.5'	VOCs	Native silty clay from a boring behind the credit union parking lot and south of the service road.	6-2B, 7-4D
SB-56	10/02/23	1005	7.5' - 8.0'	VOCs	Native silty clay from a boring behind the credit union parking lot and south of the service road.	6-2B, 7-4D
SB-57	10/02/23	1010	1.0' - 1.5'	VOCs	Native silty clay from a boring behind the credit union parking lot in the service road.	6-2C, 7-1D
SB-57	10/02/23	1013	2.0' - 2.5'	VOCs	Native silty clay from a boring behind the credit union parking lot in the service road.	6-2C, 7-2B
SB-57	10/02/23	1015	3.5' - 4.0'	VOCs	Native silty clay from a boring behind the credit union parking lot in the service road.	6-2C, 7-2B
SB-57	10/02/23	1021	5.0' - 5.5'	VOCs	Native silty clay from a boring behind the credit union parking lot in the service road.	6-2C, 7-3A
SB-57	10/02/23	1023	6.0' - 6.5'	VOCs	Native silty clay from a boring behind the credit union parking lot in the service road.	6-2C, 7-4E
SB-57	10/02/23	1025	7.5' - 8.0'	VOCs	Native silty clay from a boring behind the credit union parking lot in the service road.	6-2C, 7-4E
SB-58	10/02/23	1035	1.0' - 1.5'	VOCs	Native silty clay from a boring behind the credit union parking lot in the service road.	6-2D, 7-1E
SB-58	10/02/23	1037	2.0' - 2.5'	VOCs	Native silty clay from a boring behind the credit union parking lot in the service road.	6-2D, 7-2B
SB-58	10/02/23	1040	3.5' - 4.0'	VOCs	Native silty clay from a boring behind the credit union parking lot in the service road.	6-2D, 7-2B
SB-58	10/02/23	1043	5.0' - 5.5'	VOCs	Native silty clay from a boring behind the credit union parking lot in the service road.	6-2D, 7-3A
SB-58	10/02/23	1045	6.0' - 6.5'	VOCs	Native silty clay from a boring behind the credit union parking lot in the service road.	6-2D, 7-4E

Table 4-2B
Summary of Shallow Subsurface Soil Samples (<8.0' Depth) Collected from the Highland Plaza Off-Site Area
Highland Plaza Off-Site Area, Site No. C915293A
Tonawanda, New York



Sample ID	Date Sampled	Time Sampled	Interval Sampled *	Analytical Parameters	Sample Description and/or Location	Table Reference
Shallow Subsurface Soil Samples (continued)						
SB-58	10/02/23	1048	7.5' - 8.0'	VOCs	Native silty clay from a boring behind the credit union parking lot in the service road.	6-2D, 7-4E
SB-59	10/02/23	1055	1.0' - 1.5'	VOCs	Native silty clay from a boring behind the credit union parking lot in the service road.	6-2E, 7-1E
SB-59	10/02/23	1057	2.0' - 2.5'	VOCs	Native silty clay from a boring behind the credit union parking lot in the service road.	6-2E, 7-2C
SB-59	10/02/23	1100	3.5' - 4.0'	VOCs	Native silty clay from a boring behind the credit union parking lot in the service road.	6-2E, 7-2C
SB-59	10/02/23	1102	5.0' - 5.5'	VOCs	Native silty clay from a boring behind the credit union parking lot in the service road.	6-2E, 7-3A
SB-59	10/02/23	1105	6.0' - 6.5'	VOCs	Native silty clay from a boring behind the credit union parking lot in the service road.	6-2E, 7-4E
SB-59	10/02/23	1108	7.5' - 8.0'	VOCs	Native silty clay from a boring behind the credit union parking lot in the service road.	6-2E, 7-4E
SB-60	10/02/23	1118	1.0' - 1.5'	VOCs	Native silty clay from a boring behind the former dry cleaning facility in the center of the service road.	6-2F, 7-1E
SB-60	10/02/23	1120	2.0' - 2.5'	VOCs	Native silty clay from a boring behind the former dry cleaning facility in the center of the service road.	6-2F, 7-2C
SB-60	10/02/23	1123	3.5' - 4.0'	VOCs	Native silty clay from a boring behind the former dry cleaning facility in the center of the service road.	6-2F, 7-2C
SB-60	10/02/23	1130	5.0' - 5.5'	VOCs	Native silty clay from a boring behind the former dry cleaning facility in the center of the service road.	6-2F, 7-3A
SB-60	10/02/23	1133	6.0' - 6.5'	VOCs	Native silty clay from a boring behind the former dry cleaning facility in the center of the service road.	6-2F, 7-4E
SB-60	10/02/23	1135	7.5' - 8.0'	VOCs	Native silty clay from a boring behind the former dry cleaning facility in the center of the service road.	6-2F, 7-4E
SB-61	10/02/23	1204	1.0' - 1.5'	VOCs	Native silty clay from a boring behind the former dry cleaning facility in the center of the service road.	6-2G, 7-1E
SB-61	10/02/23	1206	2.0' - 2.5'	VOCs	Native silty clay from a boring behind the former dry cleaning facility in the center of the service road.	6-2G, 7-2C
SB-61	10/02/23	1210	3.5' - 4.0'	VOCs	Native silty clay from a boring behind the former dry cleaning facility in the center of the service road.	6-2G, 7-2C
SB-61	10/02/23	1215	5.0' - 5.5'	VOCs	Native silty clay from a boring behind the former dry cleaning facility in the center of the service road.	6-2G, 7-3B

Table 4-2B
Summary of Shallow Subsurface Soil Samples (<8.0' Depth) Collected from the Highland Plaza Off-Site Area
Highland Plaza Off-Site Area, Site No. C915293A
Tonawanda, New York



Sample ID	Date Sampled	Time Sampled	Interval Sampled *	Analytical Parameters	Sample Description and/or Location	Table Reference
Shallow Subsurface Soil Samples (continued)						
SB-61	10/02/23	1217	6.0' - 6.5'	VOCs	Native silty clay from a boring behind the former dry cleaning facility in the center of the service road.	6-2G, 7-4F
SB-61	10/02/23	1220	7.5' - 8.0'	VOCs	Native silty clay from a boring behind the former dry cleaning facility in the center of the service road.	6-2G, 7-4F
SB-62	10/02/23	1220	1.0' - 1.5'	VOCs	Native silty clay from a boring behind the former dry cleaning facility and south of the service road.	6-2H, 7-1E
SB-62	10/02/23	1223	2.0' - 2.5'	VOCs	Native silty clay from a boring behind the former dry cleaning facility and south of the service road.	6-2H, 7-2C
SB-62	10/02/23	1225	3.5' - 4.0'	VOCs	Native silty clay from a boring behind the former dry cleaning facility and south of the service road.	6-2H, 7-2C
SB-62	10/02/23	1230	5.0' - 5.5'	VOCs	Native silty clay from a boring behind the former dry cleaning facility and south of the service road.	6-2H, 7-3B
SB-62	10/02/23	1233	6.0' - 6.5'	VOCs	Native silty clay from a boring behind the former dry cleaning facility and south of the service road.	6-2H, 7-4F
SB-62	10/02/23	1235	7.5' - 8.0'	VOCs	Native silty clay from a boring behind the former dry cleaning facility and south of the service road.	6-2H, 7-4F
SB-63	10/02/23	1240	1.0' - 1.5'	VOCs	Native silty clay from a boring behind the former dry cleaning facility and south of the service road.	6-2I, 7-1E
SB-63	10/02/23	1243	2.0' - 2.5'	VOCs	Native silty clay from a boring behind the former dry cleaning facility and south of the service road.	6-2I, 7-2D
SB-63	10/02/23	1245	3.5' - 4.0'	VOCs	Native silty clay from a boring behind the former dry cleaning facility and south of the service road.	6-2I, 7-2D
SB-63	10/02/23	1250	5.0' - 5.5'	VOCs	Native silty clay from a boring behind the former dry cleaning facility and south of the service road.	6-2I, 7-3B
SB-63	10/02/23	1253	6.0' - 6.5'	VOCs	Native silty clay from a boring behind the former dry cleaning facility and south of the service road.	6-2I, 7-4F
SB-63	10/02/23	1255	7.5' - 8.0'	VOCs	Native silty clay from a boring behind the former dry cleaning facility and south of the service road.	6-2I, 7-4F
SB-64	10/02/23	0856	1.0' - 1.5'	VOCs	Native silty clay from a boring behind the credit union building and south of the service road.	6-2J, 7-1E
SB-64	10/02/23	0858	2.0' - 2.5'	VOCs	Native silty clay from a boring behind the credit union building and south of the service road.	6-2J, 7-2D
SB-64	10/02/23	0900	3.5' - 4.0'	VOCs	Native silty clay from a boring behind the credit union building and south of the service road.	6-2J, 7-2D

Table 4-2B
Summary of Shallow Subsurface Soil Samples (<8.0' Depth) Collected from the Highland Plaza Off-Site Area
Highland Plaza Off-Site Area, Site No. C915293A
Tonawanda, New York



Sample ID	Date Sampled	Time Sampled	Interval Sampled *	Analytical Parameters	Sample Description and/or Location	Table Reference
Shallow Subsurface Soil Samples (continued)						
SB-64	10/02/23	0850	5.0' - 5.5'	VOCs	Native silty clay from a boring behind the credit union building and south of the service road.	6-2J, 7-3B
SB-64	10/02/23	0848	6.0' - 6.5'	VOCs	Native silty clay from a boring behind the credit union building and south of the service road.	6-2J, 7-4F
SB-64	10/02/23	0845	7.5' - 8.0'	VOCs	Native silty clay from a boring behind the credit union building and south of the service road.	6-2J, 7-4F
MW-5R	10/03/23	0854	1.0' - 1.5'	VOCs	Native silty clay from a boring in the central portion of the alley and south of the service road.	6-2K, 7-1E
MW-5R	10/03/23	0910	2.0' - 2.5'	VOCs	Native silty clay from a boring in the central portion of the alley and south of the service road.	6-2K, 7-2D
MW-5R	10/03/23	0917	3.5' - 4.0'	VOCs	Native silty clay from a boring in the central portion of the alley and south of the service road.	6-2K, 7-2D
MW-5R	10/03/23	0921	5.0' - 5.5'	VOCs	Native silty clay from a boring in the central portion of the alley and south of the service road.	6-2K, 7-3B
MW-5R	10/03/23	0924	6.0' - 6.5'	VOCs	Native silty clay from a boring in the central portion of the alley and south of the service road.	6-2K, 7-4G
MW-5R	10/03/23	0926	7.5' - 8.0'	VOCs	Native silty clay from a boring in the central portion of the alley and south of the service road.	6-2K, 7-4G
MW-7	10/04/23	0825	1.0' - 1.5'	VOCs	Native silty clay from a boring behind the credit union building and north of the service road.	6-2L, 7-1E
MW-7	10/04/23	0833	2.0' - 2.5'	VOCs	Native silty clay from a boring behind the credit union building and north of the service road.	6-2L, 7-2D
MW-7	10/04/23	0835	3.5' - 4.0'	VOCs	Native silty clay from a boring behind the credit union building and north of the service road.	6-2L, 7-2D
MW-7	10/04/23	0850	5.0' - 5.5'	VOCs	Native silty clay from a boring behind the credit union building and north of the service road.	6-2L, 7-3B
MW-7	10/04/23	0900	6.0' - 6.5'	VOCs	Native silty clay from a boring behind the credit union building and north of the service road.	6-2L, 7-4G
MW-7	10/04/23	0900	7.5' - 8.0'	VOCs	Native silty clay from a boring behind the credit union building and north of the service road.	6-2L, 7-4G

Notes:

* = Sampled interval is given in inches or feet below ground surface.

VOCs = Volatile Organic Compounds.

SVOCs = Semivolatile Organic Compounds.

PCBs = Polychlorinated Biphenyls.

PFCs = Perfluorinated hydrocarbons.

This table was checked and updated by GMM on August 26, 2024.

Table 4-2C
Summary of Subsurface Soil Samples (>8.0' Depth) Collected from the Highland Plaza Off-Site Area
Highland Plaza Off-Site Area, Site No. C915293A
Tonawanda, New York



Sample ID	Date Sampled	Time Sampled	Interval Sampled *	Analytical Parameters	Sample Description and/or Location	Table Reference
Subsurface Soil Samples (continued)						
MW-5R	10/03/23	0955	14.5' - 15.0'	VOCs	Native silty clay from a boring in the central portion of the alley and south of the service road.	6-2K
MW-5R	10/03/23	1030	23.5' - 24.0'	VOCs	Native silty clay from a boring in the central portion of the alley and south of the service road.	6-2K
MW-7	10/04/23	0940	14.5' - 15.0'	VOCs	Native silty clay from a boring behind the credit union building and north of the service road.	6-2L
MW-7	10/04/23	1015	23.5' - 24.0'	VOCs	Native silty clay from a boring behind the credit union building and north of the service road.	6-2L

Notes:

* = Sampled interval is given in inches or feet below ground surface.

VOCs = Volatile Organic Compounds.

SVOCs = Semivolatile Organic Compounds.

PCBs = Polychlorinated Biphenyls.

PFCs = Perfluorinated hydrocarbons.

This table was checked and updated by GMM on August 26, 2024.

Table 4-2D
Summary of Groundwater Samples Collected from Highland Plaza and the Off-Site Area
Highland Plaza Off-Site Area, Site No. C915293A
Tonawanda, New York



Sample ID	Date Sampled	Time Sampled	Interval Sampled *	Analytical Parameters	Sample Description and/or Location	Table Reference
Groundwater Samples						
MW-1	12/22/15	1006	14' - 24'	VOCs	Central portion of the parking lot in front of Highland Plaza.	7-5A
MW-1	12/21/17	0855	14' - 24'	VOCs, SVOCs, Pesticides, PCBs, Metals, PFCs	Central portion of the parking lot in front of Highland Plaza.	7-5A
MW-1	06/21/19	1200	14' - 24'	VOCs	Central portion of the parking lot in front of Highland Plaza.	7-5A
MW-1	05/17/21	1015	14' - 24'	VOCs, Metals	Central portion of the parking lot in front of Highland Plaza.	7-5A
MW-1	08/06/24	0903	14' - 24'	VOCs, Metals	Central portion of the parking lot in front of Highland Plaza.	6-3, 7-5A
MW-2	12/22/15	1006	14' - 24'	VOCs	East end of the parking lot in front of the former dry cleaner tenant space.	7-5A
MW-2	12/21/17	1100	14' - 24'	VOCs, SVOCs, Pesticides, PCBs, Metals, PFCs	East end of the parking lot in front of the former dry cleaner tenant space.	7-5A
MW-2	06/21/19	1310	14' - 24'	VOCs	East end of the parking lot in front of the former dry cleaner tenant space.	7-5A
MW-2	05/17/21	0940	14' - 24'	VOCs, Metals	East end of the parking lot in front of the former dry cleaner tenant space.	7-5A
MW-2	08/07/24	0730	14' - 24'	VOCs, Metals	East end of the parking lot in front of the former dry cleaner tenant space.	6-3, 7-5A
MW-3	12/22/15	1006	14' - 24'	VOCs	East end of the parking lot in front of the former dry cleaner tenant space.	7-5B
MW-3	12/20/17	1425	14' - 24'	VOCs, Metals, PFCs	East end of the parking lot in front of the former dry cleaner tenant space.	7-5B
MW-3	06/21/19	1335	14' - 24'	VOCs	East end of the parking lot in front of the former dry cleaner tenant space.	7-5B
MW-3	05/17/21	1055	14' - 24'	VOCs, Metals	East end of the parking lot in front of the former dry cleaner tenant space.	7-5B
MW-3	08/07/24	0840	14' - 24'	VOCs, Metals	East end of the parking lot in front of the former dry cleaner tenant space.	6-3, 7-5B
MW-4	12/22/15	1006	14' - 24'	VOCs	East end of the alley behind the former dry cleaning facility and south of the service road.	7-5B
MW-4	12/20/17	0940	14' - 24'	VOCs, SVOCs, Pesticides, PCBs, Metals, PFCs	East end of the alley behind the former dry cleaning facility and south of the service road.	7-5B

Table 4-2D
Summary of Groundwater Samples Collected from Highland Plaza and the Off-Site Area
Highland Plaza Off-Site Area, Site No. C915293A
Tonawanda, New York



Sample ID	Date Sampled	Time Sampled	Interval Sampled *	Analytical Parameters	Sample Description and/or Location	Table Reference
Groundwater Samples (continued)						
MW-4	06/21/19	1450	14' - 24'	VOCs	East end of the alley behind the former dry cleaning facility and south of the service road.	7-5B
MW-4	05/17/21	1255	14' - 24'	VOCs, Metals	East end of the alley behind the former dry cleaning facility and south of the service road.	7-5B
MW-4	08/07/24	1235	14' - 24'	VOCs, Metals	East end of the alley behind the former dry cleaning facility and south of the service road.	6-3, 7-5B
MW-5	12/22/15	1040	14' - 24'	VOCs	Central portion of the alley and south of the service road.	7-5C
MW-5	12/20/17	1200	14' - 24'	VOCs, Pesticides, Metals, PFCs	Central portion of the alley and south of the service road.	7-5C
MW-5	06/21/19	1600	14' - 24'	VOCs	Central portion of the alley and south of the service road.	7-5C
MW-5	05/17/21	1400	14' - 24'	VOCs, Metals	Central portion of the alley and south of the service road.	7-5C
MW-5R	08/07/24	1130	14' - 24'	VOCs, Metals	Central portion of the alley and south of the service road. Replacement of well MW-5.	6-3, 7-5C
MW-6	08/07/24	1000	14' - 24'	VOCs, Metals	West end of the alley and south of the service road.	6-3, 7-5C
MW-7	08/07/24	1335	14' - 24'	VOCs, Metals	East end of the alley near the credit union and north of the service road.	6-3, 7-5C

Notes:

* = Sampled interval is given in inches or feet below ground surface. For the wells, the sample interval represents the well screen top and bottom depths.

N/A = Not applicable.

VOCs = Volatile Organic Compounds.

SVOCs = Semivolatile Organic Compounds.

PCBs = Polychlorinated Biphenyls.

PFCs = Perfluorinated hydrocarbons.

This table was checked and updated by GMM on August 26, 2024.

Table 4-3
Monitoring Well Construction Summary
Highland Plaza Off-Site Area, Site No. C915293A
Tonawanda, New York



Well Number	Ground Surface Elevation (ft. amsl)	Top of Riser Elevation (ft. amsl)	Total Boring Depth (feet)	Sandpack Interval (ft. bgs)	Sandpack Interval (ft. amsl)	Well Screen Interval (ft. bgs)	Well Screen Interval (ft. amsl)	Screened Water-Bearing Zone
Highland Plaza BCP Site (C915293)								
MW-1	613.75	613.56	24.0	4.0 to 24.0	609.75 to 589.75	14.0 to 24.0	599.75 to 589.75	Reddish-Brown Silty Clay
MW-2	613.46	613.23	24.0	4.0 to 24.0	609.46 to 589.46	14.0 to 24.0	599.46 to 589.46	Reddish-Brown Silty Clay
MW-3	613.33	613.11	24.0	4.5 to 24.0	608.83 to 589.33	14.0 to 24.0	599.33 to 589.33	Reddish-Brown Silty Clay
Highland Plaza Off-Site Area (C915293A)								
MW-4	614.85	614.52	24.0	4.5 to 24.0	610.35 to 590.85	14.0 to 24.0	600.85 to 590.85	Reddish-Brown Silty Clay
MW-5 ●	615.18	615.08	24.0	4.5 to 24.0	610.68 to 591.18	14.0 to 24.0	601.18 to 591.18	Reddish-Brown Silty Clay
MW-5R	615.32	615.09	24.0	12.0 to 24.0	603.32 to 591.32	14.0 to 24.0	601.32 to 591.32	Reddish-Brown Silty Clay
MW-6	615.71	615.34	24.0	12.0 to 24.0	603.71 to 591.71	14.0 to 24.0	601.71 to 591.71	Reddish-Brown Silty Clay
MW-7	613.36	612.92	24.0	12.0 to 24.0	601.36 to 589.36	14.0 to 24.0	599.36 to 589.36	Reddish-Brown Silty Clay

Notes:

ft. amsl = feet above mean sea level.

ft. bgs = Feet below ground surface.

● = This well was destroyed by snow plowing operations and was replaced in October 2023 with a 2-inch well (MW-5R).

Table 4-4
Summary of Groundwater Elevations in Overburden Monitoring Wells
Highland Plaza Off-Site Area, Site No. C915293A
Tonawanda, New York



Well Number	Top of Riser Elevation	Depth to Water	Water Elevation	Depth to Water *	Water Elevation	Depth to Water	Water Elevation	Depth to Water	Water Elevation	Depth to Water	Water Elevation
		12/04/15		12/22/15		12/21/17		06/21/19		05/05/21	
Highland Plaza BCP Site (C915293)											
MW-1	613.56	3.80	609.76	12.76	600.80	4.65	608.91	4.66	608.90	3.08	610.48
MW-2	613.25	2.80	610.45	8.60	604.65	3.22	610.03	3.22	610.03	3.65	609.60
MW-3	613.12	5.40	607.72	11.05	602.07	5.91	607.21	5.91	607.21	7.70	605.42
Highland Plaza Off-Site Area (C915293A)											
MW-4	614.47	3.10	611.37	8.42	606.05	2.20	612.27	2.10	612.37	2.65	611.82
MW-5	615.08	2.80	612.28	4.18	610.90	0.50	614.58	0.05	615.03	1.21	613.87

Well Number	Top of Riser Elevation	Depth to Water	Water Elevation	Depth to Water ♦	Water Elevation	Depth to Water	Water Elevation	Depth to Water	Water Elevation	Depth to Water	Water Elevation
		10/04/23		10/12/23		10/26/23		11/03/23		11/10/23	
Highland Plaza BCP Site (C915293)											
MW-1	613.56	3.97	609.59	8.57	604.99	4.05	609.51	2.38	611.18	NM ■	NA
MW-2	613.23	4.10	609.13	5.08	608.15	3.60	609.63	3.26	609.97	3.12	610.11
MW-3	613.11	6.22	606.89	11.84	601.27	6.98	606.13	6.27	606.84	6.02	607.09
Highland Plaza Off-Site Area (C915293A)											
MW-4	614.52	5.81	608.71	10.87	603.65	7.11	607.41	6.62	607.90	6.05	608.47
MW-5R ●	615.09	23.74	591.35	20.89	594.20	14.98	600.11	11.99	603.10	8.66	606.43
MW-6	615.34	3.90	611.44	9.75	605.59	4.19	611.15	3.65	611.69	3.46	611.88
MW-7	612.92	24.00	588.92	23.71	589.21	18.81	594.11	15.78	597.14	12.90	600.02

Notes:

NA = Not Applicable.

NM = Not Measured.

Elevations are referenced to Datum NAVD 88 and given in feet above mean sea level.

Depths are given in feet.

* = The wells were developed on December 18, 2015.

♠ = The new and existing wells were surveyed by KHEOPS in October 2023.

● = This well was destroyed by snow plowing operations and was replaced in October 2023 by well MW-5R.

♦ = Well MW-6 was purged dry on October 4, 2023. Wells MW-1 thru MW-4 were purged dry on October 5, 2023. Wells MW-5R and MW-7 were dry.

■ = Water was in the flush mount above the well cap so the well was not opened.

Table 4-4
Summary of Groundwater Elevations in Overburden Monitoring Wells
Highland Plaza Off-Site Area, Site No. C915293A
Tonawanda, New York



Notes (continued):

23.74 Well was dry so the depth to water shown is the bottom elevation of the well screen.
2023 data checked by GMM on February 29, 2024.

Table 4-4
Summary of Groundwater Elevations in Overburden Monitoring Wells
Highland Plaza Off-Site Area, Site No. C915293A
Tonawanda, New York



Well Number	Top of \spadesuit Riser Elevation	Depth to Water	Water Elevation	Depth to Water	Water Elevation	Depth to Water	Water Elevation	Depth to Water	Water Elevation	Depth to Water	Water Elevation
		11/17/23		11/22/23		12/01/23		12/08/23		12/15/23	
Highland Plaza BCP Site (C915293)											
MW-1	613.56	2.21	611.35	2.14	611.42	2.02	611.54	2.41	611.15	2.79	610.77
MW-2	613.23	3.25	609.98	3.21	610.02	3.20	610.03	3.20	610.03	3.19	610.04
MW-3	613.11	6.00	607.11	6.10	607.01	6.03	607.08	5.98	607.13	6.10	607.01
Highland Plaza Off-Site Area (C915293A)											
MW-4	614.52	5.66	608.86	5.36	609.16	4.67	609.85	3.93	610.59	3.50	611.02
MW-5R \bullet	615.09	6.90	608.19	5.94	609.15	4.54	610.55	3.63	611.46	1.95	613.14
MW-6	615.34	3.48	611.86	3.20	612.14	2.95	612.39	2.78	612.56	2.73	612.61
MW-7	612.92	8.42	604.50	6.68	606.24	7.71	605.21	5.73	607.19	4.68	608.24

Well Number	Top of \spadesuit Riser Elevation	Depth to Water	Water Elevation	Depth to Water	Water Elevation	Depth to Water *	Water Elevation	Depth to Water \blacktriangledown	Water Elevation	Depth to Water	Water Elevation
		12/22/23		12/29/23		05/21/24		05/22/24		05/28/24	
Highland Plaza BCP Site (C915293)											
MW-1	613.56	2.89	610.67	2.24	611.32	4.67	608.89	23.41	590.15	9.62	603.94
MW-2	613.23	3.30	609.93	3.23	610.00	4.37	608.86	23.35	589.88	5.40	607.83
MW-3	613.11	6.33	606.78	6.32	606.79	7.62	605.49	23.27	589.84	14.52	598.59
Highland Plaza Off-Site Area (C915293A)											
MW-4	614.52	3.05	611.47	1.26	613.26	3.43	611.09	20.44	594.08	5.87	608.65
MW-5R \bullet	615.09	0.95	614.14	0.00	615.09	3.23	611.86	21.68	593.41	9.41	605.68
MW-6	615.34	2.73	612.61	2.80	612.54	3.79	611.55	14.84	600.50	6.15	609.19
MW-7	612.92	4.10	608.82	3.60	609.32	3.48	609.44	21.25	591.67	17.46	595.46

Notes:

NA = Not Applicable.

NM = Not Measured.

Elevations are referenced to Datum NAVD 88 and given in feet above mean sea level.

Depths are given in feet.

\spadesuit = The new and existing wells were surveyed by KHEOPS in October 2023.

\bullet = This well was found destroyed in August 2023 and replaced in October 2023 by well MW-5R. See text for more details.

*** = Depth to water measurements prior to the start of well development on May 21, 2024.**

Table 4-4
Summary of Groundwater Elevations in Overburden Monitoring Wells
Highland Plaza Off-Site Area, Site No. C915293A
Tonawanda, New York



Notes (continued):

◆ = Depth to water measurements following the completion of well development on May 22, 2024.

0.00 Water in the well was above the top of riser. A depth of 0.0 feet was assigned.

2023 data checked by GMM on February 29, 2024.

2024 data checked by GMM on September 23, 2024.

Table 4-4
Summary of Groundwater Elevations in Overburden Monitoring Wells
Highland Plaza Off-Site Area, Site No. C915293A
Tonawanda, New York



Well Number	Top of \spadesuit Riser Elevation	Depth to Water	Water Elevation	Depth to Water	Water Elevation	Depth to Water	Water Elevation	Depth to Water	Water Elevation	Depth to Water	Water Elevation
		06/04/24		06/11/24		06/18/24		06/25/24		07/01/24	
Highland Plaza BCP Site (C915293)											
MW-1	613.56	5.87	607.69	3.08	610.48	2.58	610.98	3.31	610.25	2.82	610.74
MW-2	613.23	4.56	608.67	4.30	608.93	4.15	609.08	3.95	609.28	3.94	609.29
MW-3	613.11	9.88	603.23	8.19	604.92	7.62	605.49	7.12	605.99	7.02	606.09
Highland Plaza Off-Site Area (C915293A)											
MW-4	614.52	4.03	610.49	3.66	610.86	3.89	610.63	3.99	610.53	4.14	610.38
MW-5R \bullet	615.09	4.30	610.79	3.60	611.49	3.64	611.45	3.74	611.35	3.81	611.28
MW-6	615.34	3.69	611.65	3.14	612.20	3.35	611.99	3.47	611.87	3.31	612.03
MW-7	612.92	13.33	599.59	7.53	605.39	5.16	607.76	4.28	608.64	4.21	608.71

Well Number	Top of \spadesuit Riser Elevation	Depth to Water *	Water Elevation	Depth to Water \blacklozenge	Water Elevation	Depth to Water	Water Elevation	Depth to Water	Water Elevation	Depth to Water	Water Elevation
		08/07/24		08/07/24		08/12/24		08/23/24		08/30/24	
Highland Plaza BCP Site (C915293)											
MW-1	613.56	2.29	611.27	15.27	598.29	7.84	605.72	4.16	609.40	4.10	609.46
MW-2	613.23	3.93	609.30	18.25	594.98	4.76	608.47	4.07	609.16	4.14	609.09
MW-3	613.11	5.82	607.29	17.19	595.92	12.37	600.74	7.31	605.80	6.73	606.38
Highland Plaza Off-Site Area (C915293A)											
MW-4	614.52	4.91	609.61	11.27	603.25	5.82	608.70	5.25	609.27	5.67	608.85
MW-5R \bullet	615.09	4.65	610.44	8.63	606.46	6.11	608.98	5.38	609.71	5.53	609.56
MW-6	615.34	3.49	611.85	16.39	598.95	6.61	608.73	3.57	611.77	3.84	611.50
MW-7	612.92	4.18	608.74	8.50	604.42	6.36	606.56	4.77	608.15	NM	NA

Notes:

NA = Not Applicable.

NM = Not Measured.

Elevations are referenced to Datum NAVD 88 and given in feet above mean sea level.

Depths are given in feet.

\spadesuit = The new and existing wells were surveyed by KHEOPS in October 2023.

\bullet = This well was found destroyed in August 2023 and replaced in October 2023 by well MW-5R. See text for more details.

* = Depth to water measurements prior to the start of well sampling on August 7, 2024.

Table 4-4
Summary of Groundwater Elevations in Overburden Monitoring Wells
Highland Plaza Off-Site Area, Site No. C915293A
Tonawanda, New York



Notes (continued):

◆ = Depth to water measurements following the completion of well sampling on August 7, 2024.

2.58 Flush mount was full of bentonite right up to the TOC, which didn't allow the cap to sit snugly. Surface water intrusion into the well is possible.

2024 data checked by GMM on September 23, 2024.

Table 4-4
Summary of Groundwater Elevations in Overburden Monitoring Wells
Highland Plaza Off-Site Area, Site No. C915293A
Tonawanda, New York



Well Number	Top of ♣ Riser Elevation	Depth to Water	Water Elevation	Depth to Water	Water Elevation	Depth to Water	Water Elevation	Depth to Water	Water Elevation	Depth to Water	Water Elevation
		09/05/24		09/12/24		09/19/24					
Highland Plaza BCP Site (C915293)											
MW-1	613.56	4.20	609.36	3.00	610.56	3.22	610.34				
MW-2	613.23	4.08	609.15	3.98	609.25	3.95	609.28				
MW-3	613.11	6.47	606.64	6.35	606.76	6.25	606.86				
Highland Plaza Off-Site Area (C915293A)											
MW-4	614.52	6.02	608.50	5.90	608.62	6.05	608.47				
MW-5R ●	615.09	5.63	609.46	5.75	609.34	5.80	609.29				
MW-6	615.34	3.98	611.36	3.74	611.60	3.70	611.64				
MW-7	612.92	4.93	607.99	4.80	608.12	4.65	608.27				

Notes:

NA = Not Applicable.

NM = Not Measured.

Elevations are referenced to Datum NAVD 88 and given in feet above mean sea level.

Depths are given in feet.

♣ = The new and existing wells were surveyed by KHEOPS in October 2023.

● = This well was found destroyed in August 2023 and replaced in October 2023 by well MW-5R. See text for more details.

2024 data checked by GMM on September 23, 2024.

Table 6-1
Summary of Shallow Fill Analytical Results
Highland Plaza Off-Site Area, Site No. C915293A
Tonawanda, New York



Sample Point Sample Type Depth (ft) Sample Date	Unrestricted Soil Cleanup Objectives *	Residential Soil Cleanup Objectives *	MW-4 Fill 0.0' - 2.0' 10/04/23	MW-4 ♠ Fill 0.0' - 2.0' 10/04/23				
Volatile Organic Compounds (µg/kg)								
1,1,1-Trichloroethane	680.0	100,000						
1,1,2-Trichloroethane	NS	NS						
1,1-Dichloroethene	330.0	100,000						
cis-1,2-Dichloroethene	250.0	59,000	270.0	350.0				
trans-1,2-Dichloroethene	190.0	100,000	2.9	3.3				
Acetone	50.0	100,000	15.0 J	38.0 J				
Benzene	60.0	2,900	1.9 J	1.9 J				
Carbon Disulfide	NS	100,000 **						
Chloroform	370.0	10,000						
Chloromethane	NS	NS						
Ethylbenzene	1,000	30,000	0.81 J	0.75 J				
Methyl Cyclohexane	NS	NS	9.6	8.8				
Methyl Ethyl Ketone	120.0	100,000						
Methylene Chloride	50.0	51,000		2.0 J				
n-Propylbenzene	3,900	100,000						
tert-Butyl Ethyl Ether	NS	NS						
Tetrachloroethene	1,300	5,500	23,000	53,000				
Toluene	700.0	100,000	6.5	6.9				
Trichloroethene	470.0	10,000	210.0	220.0				
1,2,4-Trimethylbenzene	3,600	47,000						
1,3,5-Trimethylbenzene	8,400	47,000						
Vinyl Chloride	20.0	210.0						
Xylene (Total)	260.0	100,000	5.9 J	6.1 J				

Notes:

* = 6 NYCRR Part 375: Environmental Remediation Programs, Unrestricted & Residential Soil Cleanup Objectives, NYSDEC, 2006.

** = Residential soil cleanup objective from Commissioner's Policy CP-51 entitled "Soil Cleanup Guidance", NYSDEC, 2010.

♠ = Duplicate sample.

µg/kg = micrograms per kilogram or parts per billion.

Table 6-1
Summary of Shallow Fill Analytical Results
Highland Plaza Off-Site Area, Site No. C915293A
Tonawanda, New York



**Department of
Environmental
Conservation**

Notes (continued):

B = Analyte detected in the associated blank, as well as in the sample.

J = Compound is positively identified and reported at an estimated concentration.

JH = Compound is positively identified and reported at an estimated concentration that is probably high.

NS = No standard given in 6 NYCRR Part 375 or Commissioner Policy CP-51.

Blanks = Contaminant analyzed for but not detected at or above the laboratory detection limit.

Yellow shaded values exceed the 6 NYCRR Part 375 unrestricted soil cleanup objectives but not the residential soil cleanup objectives.

Orange shaded values exceed the 6 NYCRR Part 375 unrestricted and residential soil cleanup objectives.

This table was modified on November 21, 2024 with the data validator's qualifiers.

Table 6-2A
Summary of Subsurface Soil Analytical Results
Highland Plaza Off-Site Area, Site No. C915293A
Tonawanda, New York



Sample Point Sample Type Depth (ft) Sample Date	Unrestricted Soil Cleanup Objectives *	Residential Soil Cleanup Objectives *	SB-55					
			Soil 1.0' - 1.5'	Soil 2.0' - 2.5'	Soil 3.5' - 4.0'	Soil 5.0' - 5.5'	Soil 6.0' - 6.5'	Soil 7.5' - 8.0'
			10/02/23	10/02/23	10/02/23	10/02/23	10/02/23	10/02/23
Volatile Organic Compounds (µg/kg)								
1,1,1-Trichloroethane	680.0	100,000						
1,1,2-Trichloroethane	NS	NS						
1,1-Dichloroethene	330.0	100,000						
cis -1,2-Dichloroethene	250.0	59,000				0.83 J	1.0 J	
trans-1,2-Dichloroethene	190.0	100,000						
Acetone	50.0	100,000						
Benzene	60.0	2,900						
Carbon Disulfide	NS	100,000 **						
Chloroform	370.0	10,000						
Chloromethane	NS	NS						
Ethylbenzene	1,000	30,000						
Methyl Cyclohexane	NS	NS						
Methyl Ethyl Ketone	120.0	100,000						
Methylene Chloride	50.0	51,000						
n-Propylbenzene	3,900	100,000						
tert-Butyl Ethyl Ether	NS	NS						
Tetrachloroethene	1,300	5,500	4.6	1.7 J	1.6 J			
Toluene	700.0	100,000						
Trichloroethene	470.0	10,000	2.7	2.5 J				
1,2,4-Trimethylbenzene	3,600	47,000						
1,3,5-Trimethylbenzene	8,400	47,000						
Vinyl Chloride	20.0	210.0						
Xylene (Total)	260.0	100,000						

Notes:

* = 6 NYCRR Part 375: Environmental Remediation Programs, Unrestricted & Residential Soil Cleanup Objectives, NYSDEC, 2006.

** = Residential soil cleanup objective from Commissioner's Policy CP-51 entitled "Soil Cleanup Guidance", NYSDEC, 2010.

µg/kg = micrograms per kilogram or parts per billion.

J = Compound is positively identified and reported at an estimated concentration.

Table 6-2A
Summary of Subsurface Soil Analytical Results
Highland Plaza Off-Site Area, Site No. C915293A
Tonawanda, New York



Notes (continued):

ND = Not detected at or above the laboratory detection limit given in parentheses.

Yellow shaded values exceed the 6 NYCRR Part 375 unrestricted soil cleanup objectives but not the residential soil cleanup objectives.

Orange shaded values exceed the 6 NYCRR Part 375 unrestricted and residential soil cleanup objectives.

This table was modified on November 21, 2024 with the data validator's qualifiers.

Table 6-2B
Summary of Subsurface Soil Analytical Results
Highland Plaza Off-Site Area, Site No. C915293A
Tonawanda, New York



Sample Point Sample Type Depth (ft) Sample Date	Unrestricted Soil Cleanup Objectives *	Residential Soil Cleanup Objectives *	SB-56					
			Soil	Soil	Soil	Soil	Soil	Soil
			1.0' - 1.5' 10/02/23	2.0' - 2.5' 10/02/23	3.5' - 4.0' 10/02/23	5.0' - 5.5' 10/02/23	6.0' - 6.5' 10/02/23	7.5' - 8.0' 10/02/23
Volatile Organic Compounds (µg/kg)								
1,1,1-Trichloroethane	680.0	100,000						
1,1,2-Trichloroethane	NS	NS						
1,1-Dichloroethene	330.0	100,000						
cis -1,2-Dichloroethene	250.0	59,000				7.9	12.0	
trans-1,2-Dichloroethene	190.0	100,000						
Acetone	50.0	100,000						
Benzene	60.0	2,900						
Carbon Disulfide	NS	100,000 **						
Chloroform	370.0	10,000						
Chloromethane	NS	NS						
Ethylbenzene	1,000	30,000						
Methyl Cyclohexane	NS	NS						
Methyl Ethyl Ketone	120.0	100,000						
Methylene Chloride	50.0	51,000						
n-Propylbenzene	3,900	100,000						
tert-Butyl Ethyl Ether	NS	NS						
Tetrachloroethene	1,300	5,500	12.0	19.0	14.0	2.3 J		
Toluene	700.0	100,000						
Trichloroethene	470.0	10,000	3.2	12.0	13.0	7.5	2.0 J	
1,2,4-Trimethylbenzene	3,600	47,000						
1,3,5-Trimethylbenzene	8,400	47,000						
Vinyl Chloride	20.0	210.0						
Xylene (Total)	260.0	100,000						

Notes:

* = 6 NYCRR Part 375: Environmental Remediation Programs, Unrestricted & Residential Soil Cleanup Objectives, NYSDEC, 2006.

** = Residential soil cleanup objective from Commissioner's Policy CP-51 entitled "Soil Cleanup Guidance", NYSDEC, 2010.

µg/kg = micrograms per kilogram or parts per billion.

J = Compound is positively identified and reported at an estimated concentration.

Table 6-2B
Summary of Subsurface Soil Analytical Results
Highland Plaza Off-Site Area, Site No. C915293A
Tonawanda, New York



Notes (continued):

ND = Not detected at or above the laboratory detection limit given in parentheses.

Yellow shaded values exceed the 6 NYCRR Part 375 unrestricted soil cleanup objectives but not the residential soil cleanup objectives.

Orange shaded values exceed the 6 NYCRR Part 375 unrestricted and residential soil cleanup objectives.

This table was modified on November 21, 2024 with the data validator's qualifiers.

Table 6-2C
Summary of Subsurface Soil Analytical Results
Highland Plaza Off-Site Area, Site No. C915293A
Tonawanda, New York



Sample Point Sample Type Depth (ft) Sample Date	Unrestricted Soil Cleanup Objectives *	Residential Soil Cleanup Objectives *	SB-57					
			Soil 1.0' - 1.5'	Soil 2.0' - 2.5'	Soil 3.5' - 4.0'	Soil 5.0' - 5.5'	Soil 6.0' - 6.5'	Soil 7.5' - 8.0'
			10/02/23	10/02/23	10/02/23	10/02/23	10/02/23	10/02/23
Volatile Organic Compounds (µg/kg)								
1,1,1-Trichloroethane	680.0	100,000						
1,1,2-Trichloroethane	NS	NS						
1,1-Dichloroethene	330.0	100,000						
cis -1,2-Dichloroethene	250.0	59,000					0.76 J	
trans-1,2-Dichloroethene	190.0	100,000						
Acetone	50.0	100,000	40.0 J	13.0 J	10.0 J			
Benzene	60.0	2,900						
Carbon Disulfide	NS	100,000 **						
Chloroform	370.0	10,000						
Chloromethane	NS	NS						
Ethylbenzene	1,000	30,000						
Methyl Cyclohexane	NS	NS						
Methyl Ethyl Ketone	120.0	100,000						
Methylene Chloride	50.0	51,000						
n-Propylbenzene	3,900	100,000						
tert-Butyl Ethyl Ether	NS	NS						
Tetrachloroethene	1,300	5,500						
Toluene	700.0	100,000						
Trichloroethene	470.0	10,000						
1,2,4-Trimethylbenzene	3,600	47,000						
1,3,5-Trimethylbenzene	8,400	47,000						
Vinyl Chloride	20.0	210.0						
Xylene (Total)	260.0	100,000						

Notes:

* = 6 NYCRR Part 375: Environmental Remediation Programs, Unrestricted & Residential Soil Cleanup Objectives, NYSDEC, 2006.

** = Residential soil cleanup objective from Commissioner's Policy CP-51 entitled "Soil Cleanup Guidance", NYSDEC, 2010.

µg/kg = micrograms per kilogram or parts per billion.

J = Compound is positively identified and reported at an estimated concentration.

Table 6-2C
Summary of Subsurface Soil Analytical Results
Highland Plaza Off-Site Area, Site No. C915293A
Tonawanda, New York



Notes (continued):

ND = Not detected at or above the laboratory detection limit given in parentheses.

Yellow shaded values exceed the 6 NYCRR Part 375 unrestricted soil cleanup objectives but not the residential soil cleanup objectives.

Orange shaded values exceed the 6 NYCRR Part 375 unrestricted and residential soil cleanup objectives.

This table was modified on November 21, 2024 with the data validator's qualifiers.

Table 6-2D
Summary of Subsurface Soil Analytical Results
Highland Plaza Off-Site Area, Site No. C915293A
Tonawanda, New York



Sample Point Sample Type Depth (ft) Sample Date	Unrestricted Soil Cleanup Objectives *	Residential Soil Cleanup Objectives *	SB-58					
			Soil 1.0' - 1.5'	Soil 2.0' - 2.5'	Soil 3.5' - 4.0'	Soil 5.0' - 5.5'	Soil 6.0' - 6.5'	Soil 7.5' - 8.0'
			10/02/23	10/02/23	10/02/23	10/02/23	10/02/23	10/02/23
Volatile Organic Compounds (µg/kg)								
1,1,1-Trichloroethane	680.0	100,000						
1,1,2-Trichloroethane	NS	NS						
1,1-Dichloroethene	330.0	100,000						
cis -1,2-Dichloroethene	250.0	59,000		4.0	4.6	5.8	11.0	11.0
trans-1,2-Dichloroethene	190.0	100,000						
Acetone	50.0	100,000	63.0 J	32.0 J				
Benzene	60.0	2,900						
Carbon Disulfide	NS	100,000 **						
Chloroform	370.0	10,000						
Chloromethane	NS	NS						
Ethylbenzene	1,000	30,000						
Methyl Cyclohexane	NS	NS						
Methyl Ethyl Ketone	120.0	100,000	8.2 J					
Methylene Chloride	50.0	51,000		1.3 J		2.2 J		
n-Propylbenzene	3,900	100,000						
tert-Butyl Ethyl Ether	NS	NS						
Tetrachloroethene	1,300	5,500					15.0	20.0
Toluene	700.0	100,000						
Trichloroethene	470.0	10,000				2.1 J	8.0	9.2
1,2,4-Trimethylbenzene	3,600	47,000						
1,3,5-Trimethylbenzene	8,400	47,000						
Vinyl Chloride	20.0	210.0						
Xylene (Total)	260.0	100,000						

Notes:

* = 6 NYCRR Part 375: Environmental Remediation Programs, Unrestricted & Residential Soil Cleanup Objectives, NYSDEC, 2006.

** = Residential soil cleanup objective from Commissioner's Policy CP-51 entitled "Soil Cleanup Guidance", NYSDEC, 2010.

µg/kg = micrograms per kilogram or parts per billion.

J = Compound is positively identified and reported at an estimated concentration.

Table 6-2D
Summary of Subsurface Soil Analytical Results
Highland Plaza Off-Site Area, Site No. C915293A
Tonawanda, New York



Notes (continued):

ND = Not detected at or above the laboratory detection limit given in parentheses.

Yellow shaded values exceed the 6 NYCRR Part 375 unrestricted soil cleanup objectives but not the residential soil cleanup objectives.

Orange shaded values exceed the 6 NYCRR Part 375 unrestricted and residential soil cleanup objectives.

This table was modified on November 21, 2024 with the data validator's qualifiers.

Table 6-2E
Summary of Subsurface Soil Analytical Results
Highland Plaza Off-Site Area, Site No. C915293A
Tonawanda, New York



Sample Point Sample Type Depth (ft) Sample Date	Unrestricted Soil Cleanup Objectives *	Residential Soil Cleanup Objectives *	SB-59					
			Soil 1.0' - 1.5'	Soil 2.0' - 2.5'	Soil 3.5' - 4.0'	Soil 5.0' - 5.5'	Soil 6.0' - 6.5'	Soil 7.5' - 8.0'
			10/02/23	10/02/23	10/02/23	10/02/23	10/02/23	10/02/23
Volatile Organic Compounds (µg/kg)								
1,1,1-Trichloroethane	680.0	100,000						
1,1,2-Trichloroethane	NS	NS						
1,1-Dichloroethene	330.0	100,000						
cis -1,2-Dichloroethene	250.0	59,000	1.8 J	14.0	27.0	61.0	27.0	54.0
trans-1,2-Dichloroethene	190.0	100,000						
Acetone	50.0	100,000	98.0 J	20.0 J	14.0 J		12.0 J	
Benzene	60.0	2,900						
Carbon Disulfide	NS	100,000 **						
Chloroform	370.0	10,000						
Chloromethane	NS	NS						
Ethylbenzene	1,000	30,000						
Methyl Cyclohexane	NS	NS						
Methyl Ethyl Ketone	120.0	100,000	14.0 J					
Methylene Chloride	50.0	51,000						
n-Propylbenzene	3,900	100,000						
tert-Butyl Ethyl Ether	NS	NS						
Tetrachloroethene	1,300	5,500				5.1	26.0	52.0
Toluene	700.0	100,000						
Trichloroethene	470.0	10,000				5.2	7.7	18.0
1,2,4-Trimethylbenzene	3,600	47,000						
1,3,5-Trimethylbenzene	8,400	47,000						
Vinyl Chloride	20.0	210.0						
Xylene (Total)	260.0	100,000						

Notes:

* = 6 NYCRR Part 375: Environmental Remediation Programs, Unrestricted & Residential Soil Cleanup Objectives, NYSDEC, 2006.

** = Residential soil cleanup objective from Commissioner's Policy CP-51 entitled "Soil Cleanup Guidance", NYSDEC, 2010.

µg/kg = micrograms per kilogram or parts per billion.

J = Compound is positively identified and reported at an estimated concentration.

Table 6-2E
Summary of Subsurface Soil Analytical Results
Highland Plaza Off-Site Area, Site No. C915293A
Tonawanda, New York



Department of
Environmental
Conservation

Notes (continued):

ND = Not detected at or above the laboratory detection limit given in parentheses.

Red bolded values are detections that are not exceedances.

Yellow shaded values exceed the 6 NYCRR Part 375 unrestricted soil cleanup objectives but not the residential soil cleanup objectives.

Orange shaded values exceed the 6 NYCRR Part 375 unrestricted and residential soil cleanup objectives.

This table was modified on November 21, 2024 with the data validator's qualifiers.

Table 6-2F
Summary of Subsurface Soil Analytical Results
Highland Plaza Off-Site Area, Site No. C915293A
Tonawanda, New York



Sample Point Sample Type Depth (ft) Sample Date	Unrestricted Soil Cleanup Objectives *	Residential Soil Cleanup Objectives *	SB-60					
			Soil 1.0' - 1.5'	Soil 2.0' - 2.5'	Soil 3.5' - 4.0'	Soil 5.0' - 5.5'	Soil 6.0' - 6.5'	Soil 7.5' - 8.0'
			10/02/23	10/02/23	10/02/23	10/02/23	10/02/23	10/02/23
Volatile Organic Compounds (µg/kg)								
1,1,1-Trichloroethane	680.0	100,000						
1,1,2-Trichloroethane	NS	NS						27.0 J
1,1-Dichloroethene	330.0	100,000		1.3 J		0.95 J		
cis -1,2-Dichloroethene	250.0	59,000	3.6	2,100	1,200	1,500	5,300	3,500
trans-1,2-Dichloroethene	190.0	100,000		19.0	7.0	6.5		
Acetone	50.0	100,000		81.0 J	27.0 J	18.0 J		
Benzene	60.0	2,900						
Carbon Disulfide	NS	100,000 **		15.0				
Chloroform	370.0	10,000						
Chloromethane	NS	NS					65.0 J	
Ethylbenzene	1,000	30,000						
Methyl Cyclohexane	NS	NS	2.7 J					
Methyl Ethyl Ketone	120.0	100,000						
Methylene Chloride	50.0	51,000	1.7 J					
n-Propylbenzene	3,900	100,000						
tert-Butyl Ethyl Ether	NS	NS			13.0			
Tetrachloroethene	1,300	5,500	8,600	5.2	1.3 J			4,800
Toluene	700.0	100,000	1.4 J					
Trichloroethene	470.0	10,000	6.0	1.5 J				910.0
1,2,4-Trimethylbenzene	3,600	47,000						
1,3,5-Trimethylbenzene	8,400	47,000						
Vinyl Chloride	20.0	210.0						
Xylene (Total)	260.0	100,000						

Notes:

* = 6 NYCRR Part 375: Environmental Remediation Programs, Unrestricted & Residential Soil Cleanup Objectives, NYSDEC, 2006.

** = Residential soil cleanup objective from Commissioner's Policy CP-51 entitled "Soil Cleanup Guidance", NYSDEC, 2010.

µg/kg = micrograms per kilogram or parts per billion.

J = Compound is positively identified and reported at an estimated concentration.

Table 6-2F
Summary of Subsurface Soil Analytical Results
Highland Plaza Off-Site Area, Site No. C915293A
Tonawanda, New York



Notes (continued):

ND = Not detected at or above the laboratory detection limit given in parentheses.

Red bolded values are detections that are not exceedances.

Yellow shaded values exceed the 6 NYCRR Part 375 unrestricted soil cleanup objectives but not the residential soil cleanup objectives.

Orange shaded values exceed the 6 NYCRR Part 375 unrestricted and residential soil cleanup objectives.

This table was modified on November 21, 2024 with the data validator's qualifiers.

Table 6-2G
Summary of Subsurface Soil Analytical Results
Highland Plaza Off-Site Area, Site No. C915293A
Tonawanda, New York



Sample Point Sample Type Depth (ft) Sample Date	Unrestricted Soil Cleanup Objectives *	Residential Soil Cleanup Objectives *	SB-61					
			Soil	Soil	Soil	Soil	Soil	Soil
			1.0' - 1.5' 10/02/23	2.0' - 2.5' 10/02/23	3.5' - 4.0' 10/02/23	5.0' - 5.5' 10/02/23	6.0' - 6.5' 10/02/23	7.5' - 8.0' 10/02/23
Volatile Organic Compounds (µg/kg)								
1,1,1-Trichloroethane	680.0	100,000						
1,1,2-Trichloroethane	NS	NS						
1,1-Dichloroethene	330.0	100,000						
cis -1,2-Dichloroethene	250.0	59,000	2.0			0.75 J	1.2 J	1.4 J
trans-1,2-Dichloroethene	190.0	100,000						
Acetone	50.0	100,000		25.0 J	13.0 J			
Benzene	60.0	2,900						
Carbon Disulfide	NS	100,000 **						
Chloroform	370.0	10,000						
Chloromethane	NS	NS						
Ethylbenzene	1,000	30,000						
Methyl Cyclohexane	NS	NS	1.3 J					
Methyl Ethyl Ketone	120.0	100,000						
Methylene Chloride	50.0	51,000						
n-Propylbenzene	3,900	100,000						
tert-Butyl Ethyl Ether	NS	NS						
Tetrachloroethene	1,300	5,500	4.6					2.1 J
Toluene	700.0	100,000						
Trichloroethene	470.0	10,000						1.1 J
1,2,4-Trimethylbenzene	3,600	47,000						
1,3,5-Trimethylbenzene	8,400	47,000						
Vinyl Chloride	20.0	210.0						
Xylene (Total)	260.0	100,000						

Notes:

* = 6 NYCRR Part 375: Environmental Remediation Programs, Unrestricted & Residential Soil Cleanup Objectives, NYSDEC, 2006.

** = Residential soil cleanup objective from Commissioner's Policy CP-51 entitled "Soil Cleanup Guidance", NYSDEC, 2010.

µg/kg = micrograms per kilogram or parts per billion.

J = Compound is positively identified and reported at an estimated concentration.

Table 6-2G
Summary of Subsurface Soil Analytical Results
Highland Plaza Off-Site Area, Site No. C915293A
Tonawanda, New York



Notes (continued):

ND = Not detected at or above the laboratory detection limit given in parentheses.

Red bolded values are detections that are not exceedances.

Yellow shaded values exceed the 6 NYCRR Part 375 unrestricted soil cleanup objectives but not the residential soil cleanup objectives.

Orange shaded values exceed the 6 NYCRR Part 375 unrestricted and residential soil cleanup objectives.

This table was modified on November 21, 2024 with the data validator's qualifiers.

Table 6-2H
Summary of Subsurface Soil Analytical Results
Highland Plaza Off-Site Area, Site No. C915293A
Tonawanda, New York



Sample Point Sample Type Depth (ft) Sample Date	Unrestricted Soil Cleanup Objectives *	Residential Soil Cleanup Objectives *	SB-62						
			Soil	Soil	Soil	Soil	Soil	Soil	
			1.0' - 1.5'	2.0' - 2.5'	3.5' - 4.0'	5.0' - 5.5'	6.0' - 6.5'	7.5' - 8.0'	
			10/02/23	10/02/23	10/02/23	10/02/23	10/02/23	10/02/23	10/02/23
Volatile Organic Compounds (µg/kg)									
1,1,1-Trichloroethane	680.0	100,000							
1,1,2-Trichloroethane	NS	NS							
1,1-Dichloroethene	330.0	100,000							
cis -1,2-Dichloroethene	250.0	59,000							
trans-1,2-Dichloroethene	190.0	100,000							
Acetone	50.0	100,000							
Benzene	60.0	2,900							
Carbon Disulfide	NS	100,000 **							
Chloroform	370.0	10,000							
Chloromethane	NS	NS							
Ethylbenzene	1,000	30,000							
Methyl Cyclohexane	NS	NS							
Methyl Ethyl Ketone	120.0	100,000							
Methylene Chloride	50.0	51,000							
n-Propylbenzene	3,900	100,000							
tert-Butyl Ethyl Ether	NS	NS							
Tetrachloroethene	1,300	5,500							
Toluene	700.0	100,000							
Trichloroethene	470.0	10,000							
1,2,4-Trimethylbenzene	3,600	47,000							
1,3,5-Trimethylbenzene	8,400	47,000							
Vinyl Chloride	20.0	210.0							
Xylene (Total)	260.0	100,000							

Notes:

* = 6 NYCRR Part 375: Environmental Remediation Programs, Unrestricted & Residential Soil Cleanup Objectives, NYSDEC, 2006.

** = Residential soil cleanup objective from Commissioner's Policy CP-51 entitled "Soil Cleanup Guidance", NYSDEC, 2010.

µg/kg = micrograms per kilogram or parts per billion.

J = Compound is positively identified and reported at an estimated concentration.

Table 6-2H
Summary of Subsurface Soil Analytical Results
Highland Plaza Off-Site Area, Site No. C915293A
Tonawanda, New York



Notes (continued):

ND = Not detected at or above the laboratory detection limit given in parentheses.

Red bolded values are detections that are not exceedances.

Yellow shaded values exceed the 6 NYCRR Part 375 unrestricted soil cleanup objectives but not the residential soil cleanup objectives.

Orange shaded values exceed the 6 NYCRR Part 375 unrestricted and residential soil cleanup objectives.

This table was modified on November 21, 2024 with the data validator's qualifiers.

Table 6-21
Summary of Subsurface Soil Analytical Results
Highland Plaza Off-Site Area, Site No. C915293A
Tonawanda, New York



Sample Point Sample Type Depth (ft) Sample Date	Unrestricted Soil Cleanup Objectives *	Residential Soil Cleanup Objectives *	SB-63					
			Soil 1.0' - 1.5'	Soil 2.0' - 2.5'	Soil 3.5' - 4.0'	Soil 5.0' - 5.5'	Soil 6.0' - 6.5'	Soil 7.5' - 8.0'
			10/02/23	10/02/23	10/02/23	10/02/23	10/02/23	10/02/23
Volatile Organic Compounds (µg/kg)								
1,1,1-Trichloroethane	680.0	100,000						
1,1,2-Trichloroethane	NS	NS						
1,1-Dichloroethene	330.0	100,000						
cis -1,2-Dichloroethene	250.0	59,000						
trans-1,2-Dichloroethene	190.0	100,000						
Acetone	50.0	100,000						
Benzene	60.0	2,900						
Carbon Disulfide	NS	100,000 **						
Chloroform	370.0	10,000						
Chloromethane	NS	NS						
Ethylbenzene	1,000	30,000						
Methyl Cyclohexane	NS	NS						
Methyl Ethyl Ketone	120.0	100,000						
Methylene Chloride	50.0	51,000						
n-Propylbenzene	3,900	100,000						
tert-Butyl Ethyl Ether	NS	NS						
Tetrachloroethene	1,300	5,500	4.2			3.8	7.6	7.0
Toluene	700.0	100,000						
Trichloroethene	470.0	10,000	2.1 J					
1,2,4-Trimethylbenzene	3,600	47,000						
1,3,5-Trimethylbenzene	8,400	47,000						
Vinyl Chloride	20.0	210.0						
Xylene (Total)	260.0	100,000						

Notes:

* = 6 NYCRR Part 375: Environmental Remediation Programs, Unrestricted & Residential Soil Cleanup Objectives, NYSDEC, 2006.

** = Residential soil cleanup objective from Commissioner's Policy CP-51 entitled "Soil Cleanup Guidance", NYSDEC, 2010.

µg/kg = micrograms per kilogram or parts per billion.

J = Compound is positively identified and reported at an estimated concentration.

Table 6-21
Summary of Subsurface Soil Analytical Results
Highland Plaza Off-Site Area, Site No. C915293A
Tonawanda, New York



Notes (continued):

ND = Not detected at or above the laboratory detection limit given in parentheses.

Red bolded values are detections that are not exceedances.

Yellow shaded values exceed the 6 NYCRR Part 375 unrestricted soil cleanup objectives but not the residential soil cleanup objectives.

Orange shaded values exceed the 6 NYCRR Part 375 unrestricted and residential soil cleanup objectives.

This table was modified on November 21, 2024 with the data validator's qualifiers.

Table 6-2J
Summary of Subsurface Soil Analytical Results
Highland Plaza Off-Site Area, Site No. C915293A
Tonawanda, New York



Sample Point Sample Type Depth (ft) Sample Date	Unrestricted Soil Cleanup Objectives *	Residential Soil Cleanup Objectives *	SB-64					
			Soil	Soil	Soil	Soil	Soil	Soil
			1.0' - 1.5'	2.0' - 2.5'	3.5' - 4.0'	5.0' - 5.5'	6.0' - 6.5'	7.5' - 8.0'
			10/02/23	10/02/23	10/02/23	10/02/23	10/02/23	10/02/23
Volatile Organic Compounds (µg/kg)								
1,1,1-Trichloroethane	680.0	100,000						
1,1,2-Trichloroethane	NS	NS						
1,1-Dichloroethene	330.0	100,000						
cis -1,2-Dichloroethene	250.0	59,000						
trans-1,2-Dichloroethene	190.0	100,000						
Acetone	50.0	100,000						
Benzene	60.0	2,900						
Carbon Disulfide	NS	100,000 **						
Chloroform	370.0	10,000						
Chloromethane	NS	NS						
Ethylbenzene	1,000	30,000						
Methyl Cyclohexane	NS	NS						
Methyl Ethyl Ketone	120.0	100,000						
Methylene Chloride	50.0	51,000						
n-Propylbenzene	3,900	100,000						
tert-Butyl Ethyl Ether	NS	NS						
Tetrachloroethene	1,300	5,500						
Toluene	700.0	100,000						
Trichloroethene	470.0	10,000						
1,2,4-Trimethylbenzene	3,600	47,000						
1,3,5-Trimethylbenzene	8,400	47,000						
Vinyl Chloride	20.0	210.0						
Xylene (Total)	260.0	100,000						

Notes:

* = 6 NYCRR Part 375: Environmental Remediation Programs, Unrestricted & Residential Soil Cleanup Objectives, NYSDEC, 2006.

** = Residential soil cleanup objective from Commissioner's Policy CP-51 entitled "Soil Cleanup Guidance", NYSDEC, 2010.

µg/kg = micrograms per kilogram or parts per billion.

J = Compound is positively identified and reported at an estimated concentration.

Table 6-2J
Summary of Subsurface Soil Analytical Results
Highland Plaza Off-Site Area, Site No. C915293A
Tonawanda, New York



**Department of
Environmental
Conservation**

Notes (continued):

ND = Not detected at or above the laboratory detection limit given in parentheses.

Red bolded values are detections that are not exceedances.

Yellow shaded values exceed the 6 NYCRR Part 375 unrestricted soil cleanup objectives but not the residential soil cleanup objectives.

Orange shaded values exceed the 6 NYCRR Part 375 unrestricted and residential soil cleanup objectives.

This table was modified on November 21, 2024 with the data validator's qualifiers.

Table 6-2K
Summary of Subsurface Soil Analytical Results
Highland Plaza Off-Site Area, Site No. C915293A
Tonawanda, New York



**Department of
Environmental
Conservation**

Sample Point Sample Type Depth (ft) Sample Date	Unrestricted Soil Cleanup Objectives *	Residential Soil Cleanup Objectives *	MW-5R							
			Soil 1.0' - 1.5' 10/03/23	Soil 2.0' - 2.5' 10/03/23	Soil 3.5' - 4.0' 10/03/23	Soil 5.0' - 5.5' 10/03/23	Soil 6.0' - 6.5' 10/03/23	Soil 7.5' - 8.0' 10/03/23	Soil 14.5' - 15.0' 10/03/23	Soil 23.5' - 24.0' 10/03/23
Volatile Organic Compounds (µg/kg)										
1,1,1-Trichloroethane	680.0	100,000								
1,1,2-Trichloroethane	NS	NS								
1,1-Dichloroethene	330.0	100,000								
cis -1,2-Dichloroethene	250.0	59,000								
trans-1,2-Dichloroethene	190.0	100,000								
Acetone	50.0	100,000								
Benzene	60.0	2,900								
Carbon Disulfide	NS	100,000 **								
Chloroform	370.0	10,000								
Chloromethane	NS	NS								
Ethylbenzene	1,000	30,000								
Methyl Cyclohexane	NS	NS								
Methyl Ethyl Ketone	120.0	100,000								
Methylene Chloride	50.0	51,000								
n-Propylbenzene	3,900	100,000								
tert-Butyl Ethyl Ether	NS	NS								
Tetrachloroethene	1,300	5,500	3.2		2.3 J	1.7 J	4.0	5.0		
Toluene	700.0	100,000	2.0 J							
Trichloroethene	470.0	10,000		1.2 J						
1,2,4-Trimethylbenzene	3,600	47,000								
1,3,5-Trimethylbenzene	8,400	47,000								
Vinyl Chloride	20.0	210.0								
Xylene (Total)	260.0	100,000								

Notes:

* = 6 NYCRR Part 375: Environmental Remediation Programs, Unrestricted & Residential Soil Cleanup Objectives, NYSDEC, 2006.

** = Residential soil cleanup objective from Commissioner's Policy CP-51 entitled "Soil Cleanup Guidance", NYSDEC, 2010.

µg/kg = micrograms per kilogram or parts per billion.

J = Compound is positively identified and reported at an estimated concentration.

Table 6-2K
Summary of Subsurface Soil Analytical Results
Highland Plaza Off-Site Area, Site No. C915293A
Tonawanda, New York



Notes (continued):

ND = Not detected at or above the laboratory detection limit given in parentheses.

Red bolded values are detections that are not exceedances.

Yellow shaded values exceed the 6 NYCRR Part 375 unrestricted soil cleanup objectives but not the residential soil cleanup objectives.

Orange shaded values exceed the 6 NYCRR Part 375 unrestricted and residential soil cleanup objectives.

This table was modified on November 21, 2024 with the data validator's qualifiers.

Table 6-2L
Summary of Subsurface Soil Analytical Results
Highland Plaza Off-Site Area, Site No. C915293A
Tonawanda, New York



Sample Point Sample Type Depth (ft) Sample Date	Unrestricted Soil Cleanup Objectives *	Residential Soil Cleanup Objectives *	MW-7							
			Soil 1.0' - 1.5' 10/04/23	Soil 2.0' - 2.5' 10/04/23	Soil 3.5' - 4.0' 10/04/23	Soil 5.0' - 5.5' 10/04/23	Soil 6.0' - 6.5' 10/04/23	Soil 7.5' - 8.0' 10/04/23	Soil 14.5' - 15.0' 10/04/23	Soil 23.5' - 24.0' 10/04/23
Volatile Organic Compounds (µg/kg)										
1,1,1-Trichloroethane	680.0	100,000								
1,1,2-Trichloroethane	NS	NS								
1,1-Dichloroethene	330.0	100,000								
cis -1,2-Dichloroethene	250.0	59,000								
trans-1,2-Dichloroethene	190.0	100,000								
Acetone	50.0	100,000								
Benzene	60.0	2,900								
Carbon Disulfide	NS	100,000 **								
Chloroform	370.0	10,000								
Chloromethane	NS	NS								
Ethylbenzene	1,000	30,000								
Methyl Cyclohexane	NS	NS								
Methyl Ethyl Ketone	120.0	100,000								
Methylene Chloride	50.0	51,000								
n-Propylbenzene	3,900	100,000								
tert-Butyl Ethyl Ether	NS	NS								
Tetrachloroethene	1,300	5,500								
Toluene	700.0	100,000								
Trichloroethene	470.0	10,000								
1,2,4-Trimethylbenzene	3,600	47,000								
1,3,5-Trimethylbenzene	8,400	47,000								
Vinyl Chloride	20.0	210.0								
Xylene (Total)	260.0	100,000								

Notes:

* = 6 NYCRR Part 375: Environmental Remediation Programs, Unrestricted & Residential Soil Cleanup Objectives, NYSDEC, 2006.

** = Residential soil cleanup objective from Commissioner's Policy CP-51 entitled "Soil Cleanup Guidance", NYSDEC, 2010.

µg/kg = micrograms per kilogram or parts per billion.

J = Compound is positively identified and reported at an estimated concentration.

Table 6-2L
Summary of Subsurface Soil Analytical Results
Highland Plaza Off-Site Area, Site No. C915293A
Tonawanda, New York



Notes (continued):

ND = Not detected at or above the laboratory detection limit given in parentheses.

Red bolded values are detections that are not exceedances.

Yellow shaded values exceed the 6 NYCRR Part 375 unrestricted soil cleanup objectives but not the residential soil cleanup objectives.

Orange shaded values exceed the 6 NYCRR Part 375 unrestricted and residential soil cleanup objectives.

This table was modified on November 21, 2024 with the data validator's qualifiers.

Table 6-3
Summary of the Groundwater Analytical Results
Highland Plaza Off-Site Area, Site No. C915293A
Tonawanda, New York



Well Number	NYSDEC	MW-1	MW-2	MW-3	MW-4	MW-5R	MW-6	MW-7
Well Location	Groundwater	On-Site	On-Site	On-Site	Off-Site	Off-Site	Off-Site	Off-Site
Well Screen Interval (feet bgs)	Standard ●	14.0 - 24.0	14.0 - 24.0	14.0 - 24.0	14.0 - 24.0	14.0 - 24.0	14.0 - 24.0	14.0 - 24.0
Sample Date		08/06/24	08/07/24	08/07/24	08/07/24	08/07/24	08/07/24	08/07/24
Volatile Organic Compounds (µg/L)								
1,1,1-Trichloroethane	5.0							
1,1-Dichloroethene	5.0							
cis -1,2-Dichloroethene	5.0			7.9	5,000			
trans-1,2-Dichloroethene	5.0							
Acetone	50.0							
Benzene	1.0							
Chloroform	7.0					0.66 J		
Methyl ethyl ketone	50 G							
Methylene chloride	5.0							
n-Propylbenzene	5.0							
Tetrachloroethene	5.0				67,000			
Toluene	5.0							
Trichloroethene	5.0			0.46 J	5,200			
1,2,4-Trimethylbenzene	5.0							
1,3,5-Trimethylbenzene	5.0							
Vinyl chloride	2.0							
Xylene (Total)	5.0							
Metals (µg/L)								
Aluminum	NS	21,600	34,200	17,400	7,400	170 J	132,000	360.0
Antimony ■	3.0							
Arsenic ■	25.0	11.0 J	15.0 J	8.2 J	8.3 J		44.0	
Barium	1,000	450.0	320.0	180.0	130.0	160.0	810.0	56.0
Beryllium ■	3.0	0.95 J	1.5	0.76 J			6.3	
Cadmium ■	5.0		0.68 J				2.9	
Calcium	NS	254,000	152,000	108,000	72,900	75,100	498,000	63,500
Chromium ■	50.0	33.0	63.0	26.0	14.0		350.0	
Cobalt	NS	9.5	19.0	8.9	3.9 J		110.0	
Copper ■	200.0	41.0	32.0	17.0	9.5 J		240.0	

Table 6-3
Summary of the Groundwater Analytical Results
Highland Plaza Off-Site Area, Site No. C915293A
Tonawanda, New York



Well Number	NYSDEC	MW-1	MW-2	MW-3	MW-4	MW-5R	MW-6	MW-7
Well Location	Groundwater	On-Site	On-Site	On-Site	Off-Site	Off-Site	Off-Site	Off-Site
Well Screen Interval (feet bgs)	Standard ●	14.0 - 24.0	14.0 - 24.0	14.0 - 24.0	14.0 - 24.0	14.0 - 24.0	14.0 - 24.0	14.0 - 24.0
Sample Date		08/06/24	08/07/24	08/07/24	08/07/24	08/07/24	08/07/24	08/07/24
Metals (continued)								
Iron	300.0	24,800 J	48,200 J	22,600 J	9,300 J	210.0 J	173,000 J	420.0 J
Lead ■	25.0	23.0	26.0	8.8 J	8.0 J		140.0	
Magnesium	35,000 G	202,000	140,000	142,000	122,000	107,000	308,000	163,000
Manganese	300.0	630.0	950.0	490.0	200.0	17.0	4,200	12.0
Mercury ■	0.7							
Nickel	100.0	24.0	48.0	24.0	10.0		220.0	
Potassium	NS	9,900	14,700	9,900	5,900	4,600	40,300	5,400
Selenium ■	10.0							
Silver ■	50.0						3.5 J	
Sodium	20,000	418,000	41,200	60,500	33,900	34,700	76,200	65,600
Vanadium	NS	34.0	64.0	32.0	14.0		250.0	1.9 J
Zinc ■	2,000 G	130.0	150.0	69.0	41.0	23.0	860.0	38.0

Notes:

- = NYSDEC Ambient Water Quality Standards and Guidance Values, June 1998, with addenda through 2021.
- µg/L = micrograms per liter or parts per billion.
- NS = No standard or guidance value available.
- = Environmental Protection Agency priority pollutant metal.
- G = Guidance value.
- J = Compound reported at an estimated concentration.
- JH = Compound is positively identified and reported at an estimated concentration that is probably high.
- Blanks = Contaminant analyzed for but not detected at or above the laboratory detection limit.
- Yellow shaded values exceed NYSDEC groundwater standards or guidance values.
- This table was modified on September 8, 2025 with the data validator's qualifiers.

Table 7-1A
Summary of Shallow Fill & Subsurface Soil Analytical Results for VOCs: 0' - 2' Depth
Highland Plaza Off-Site Area, Site No. C915293A
Tonawanda, New York



Sample Point	Unrestricted	Residential	SS-12A	AWSS-1	AWSS-2	AWSS-3	AWSS-6	AWSS-7	AWSS-8	AWSS-9	AWSS-10
Sample Type	Soil Cleanup	Soil Cleanup	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill
Depth (ft)	Objectives *	Objectives *	0.0' - 0.5'	0.5' - 1.0'	0.5' - 1.0'	0.5' - 1.0'	0.0' - 0.33'	0.0' - 0.33'	0.0' - 0.33'	0.0' - 0.33'	0.0' - 0.33'
Sample Date			05/13/14	07/08/14	07/08/14	07/08/14	10/18/15	10/18/15	10/18/15	10/18/15	10/18/15
Volatile Organic Compounds (µg/kg)											
1,1,1-Trichloroethane	680.0	100,000									
1,1,2-Trichloroethane	NS	NS									
1,1-Dichloroethene	330.0	100,000									
cis-1,2-Dichloroethene	250.0	59,000									
trans-1,2-Dichloroethene	190.0	100,000									
Acetone	50.0	100,000									
Benzene	60.0	2,900									
Carbon Disulfide	NS	100,000 **									
Chloroform	370.0	10,000									
Chloromethane	NS	NS									
Ethylbenzene	1,000	30,000									
Methyl Cyclohexane	NS	NS									
Methyl Ethyl Ketone	120.0	100,000									16 J
Methylene Chloride	50.0	51,000							3.5 JB		
n-Propylbenzene	3,900	100,000									
tert-Butyl Ethyl Ether	NS	NS									
Tetrachloroethene	1,300	5,500	25.8	40,200	19,300	89,300	2.0 J	6.3	6.2	1.0 J	0.62 J
Toluene	700.0	100,000									
Trichloroethene	470.0	10,000	10.3								
1,2,4-Trimethylbenzene	3,600	47,000							1.4 J		
1,3,5-Trimethylbenzene	8,400	47,000									
Vinyl Chloride	20.0	210.0									
Xylene (Total)	260.0	100,000							1.5 JB		

Notes:

* = 6 NYCRR Part 375: Environmental Remediation Programs, Unrestricted & Residential Soil Cleanup Objectives, NYSDEC, 2006.

** = Residential soil cleanup objective from Commissioner's Policy CP-51 entitled "Soil Cleanup Guidance", NYSDEC, 2010.

µg/kg = micrograms per kilogram or parts per billion.

B = Analyte detected in the associated blank, as well as in the sample.

Table 7-1A
Summary of Shallow Fill & Subsurface Soil Analytical Results for VOCs: 0' - 2' Depth
Highland Plaza Off-Site Area, Site No. C915293A
Tonawanda, New York



**Department of
Environmental
Conservation**

Notes (continued):

J = Compound is positively identified and reported at an estimated concentration.

NS = No standard given in 6 NYCRR Part 375 or Commissioner Policy CP-51.

Blanks = Contaminant analyzed for but not detected at or above the laboratory detection limit.

Yellow shaded values exceed the 6 NYCRR Part 375 unrestricted soil cleanup objectives but not the residential soil cleanup objectives.

Orange shaded values exceed the 6 NYCRR Part 375 unrestricted and residential soil cleanup objectives.

This table was modified on May 24, 2021 with the data validator's qualifiers.

Table 7-1B
Summary of Shallow Fill & Subsurface Soil Analytical Results for VOCs: 0' - 2' Depth
Highland Plaza Off-Site Area, Site No. C915293A
Tonawanda, New York



Sample Point	Unrestricted	Residential	AWSS-11	SB-20	SB-21	SB-22	SB-23	SB-24	SB-25	SB-27	SB-28
Sample Type	Soil Cleanup	Soil Cleanup	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill
Depth (ft)	Objectives *	Objectives *	0.0' - 0.33'	0.5' - 1.5'	1.0' - 1.67'	0.5' - 1.5'	1.42' - 2.0'	0.5' - 1.17'	1.33' - 1.67'	1.42' - 1.83'	0.83' - 1.83'
Sample Date			10/18/15	10/15/15	10/15/15	10/15/15	10/15/15	10/15/15	10/16/15	10/15/15	10/16/15
Volatile Organic Compounds (µg/kg)											
1,1,1-Trichloroethane	680.0	100,000									
1,1,2-Trichloroethane	NS	NS									
1,1-Dichloroethene	330.0	100,000					0.89 J				
cis-1,2-Dichloroethene	250.0	59,000				0.79 J	230 J	29,000	1,600	3.9 J	
trans-1,2-Dichloroethene	190.0	100,000					0.78 J				
Acetone	50.0	100,000		47 JH	84.0	39.0	49.0				
Benzene	60.0	2,900									
Carbon Disulfide	NS	100,000 **									
Chloroform	370.0	10,000									
Chloromethane	NS	NS									
Ethylbenzene	1,000	30,000									
Methyl Cyclohexane	NS	NS									
Methyl Ethyl Ketone	120.0	100,000		6.5 JH	17 J						
Methylene Chloride	50.0	51,000	9.7 JB								
n-Propylbenzene	3,900	100,000									
tert-Butyl Ethyl Ether	NS	NS									
Tetrachloroethene	1,300	5,500		1.9 J	0.92 J	0.86 J	19,000	1,600,000	1,400,000	29.0	6.5 J
Toluene	700.0	100,000						500 J			
Trichloroethene	470.0	10,000					3,000	15,000	1,400	11.0	
1,2,4-Trimethylbenzene	3,600	47,000									
1,3,5-Trimethylbenzene	8,400	47,000									
Vinyl Chloride	20.0	210.0									
Xylene (Total)	260.0	100,000	1.9 JB					980 J			

Notes:

* = 6 NYCRR Part 375: Environmental Remediation Programs, Unrestricted & Residential Soil Cleanup Objectives, NYSDEC, 2006.

** = Residential soil cleanup objective from Commissioner's Policy CP-51 entitled "Soil Cleanup Guidance", NYSDEC, 2010.

µg/kg = micrograms per kilogram or parts per billion.

B = Analyte detected in the associated blank, as well as in the sample.

Table 7-1B
Summary of Shallow Fill & Subsurface Soil Analytical Results for VOCs: 0' - 2' Depth
Highland Plaza Off-Site Area, Site No. C915293A
Tonawanda, New York



**Department of
Environmental
Conservation**

Notes (continued):

J = Compound is positively identified and reported at an estimated concentration.

JH = Compound is positively identified and reported at an estimated concentration that is probably high.

NS = No standard given in 6 NYCRR Part 375 or Commissioner Policy CP-51.

Blanks = Contaminant analyzed for but not detected at or above the laboratory detection limit.

Yellow shaded values exceed the 6 NYCRR Part 375 unrestricted soil cleanup objectives but not the residential soil cleanup objectives.

Orange shaded values exceed the 6 NYCRR Part 375 unrestricted and residential soil cleanup objectives.

This table was modified on May 24, 2021 with the data validator's qualifiers.

Table 7-1C
 Summary of Shallow Fill & Subsurface Soil Analytical Results for VOCs: 0' - 2' Depth
 Highland Plaza Off-Site Area, Site No. C915293A
 Tonawanda, New York



Sample Point	Unrestricted	Residential	SB-29	SB-35	SB-37	SB-39	SB-45	SB-46	SB-47	SB-51	SB-52
Sample Type	Soil Cleanup	Soil Cleanup	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill
Depth (ft)	Objectives *	Objectives *	1.42' - 1.83'	1.5' - 2.0'	1.0' - 1.5'	1.5' - 2.0'	1.6' - 1.8'	1.8' - 2.0'	1.6' - 1.8'	1.2' - 1.4'	1.6' - 1.8'
Sample Date			10/16/15	05/04/17	05/04/17	05/04/17	06/20/17	06/20/17	06/21/17	06/22/17	06/22/17
Volatile Organic Compounds (µg/kg)											
1,1,1-Trichloroethane	680.0	100,000									
1,1,2-Trichloroethane	NS	NS									
1,1-Dichloroethene	330.0	100,000									
cis-1,2-Dichloroethene	250.0	59,000			7.8 J			36.0 JH		0.78 J	0.90 J
trans-1,2-Dichloroethene	190.0	100,000									
Acetone	50.0	100,000	11 J								
Benzene	60.0	2,900						1.1 JH			
Carbon Disulfide	NS	100,000 **									
Chloroform	370.0	10,000						0.43 JH			
Chloromethane	NS	NS									
Ethylbenzene	1,000	30,000						0.87 JH		0.45 J	0.40 J
Methyl Cyclohexane	NS	NS									
Methyl Ethyl Ketone	120.0	100,000									
Methylene Chloride	50.0	51,000						9.6 JH			
n-Propylbenzene	3,900	100,000									
tert-Butyl Ethyl Ether	NS	NS									
Tetrachloroethene	1,300	5,500		210 J	11.0 J	5,900,000 J	110,000	87.0 JH	820,000	47.0	58.0 JH
Toluene	700.0	100,000						5.6 JH		1.0 J	1.4 J
Trichloroethene	470.0	10,000			0.55 J			7.0 JH			1.3 J
1,2,4-Trimethylbenzene	3,600	47,000									
1,3,5-Trimethylbenzene	8,400	47,000									
Vinyl Chloride	20.0	210.0									
Xylene (Total)	260.0	100,000						5.0 JH		2.5 J	1.7 J

Notes:

* = 6 NYCRR Part 375: Environmental Remediation Programs, Unrestricted & Residential Soil Cleanup Objectives, NYSDEC, 2006.

** = Residential soil cleanup objective from Commissioner's Policy CP-51 entitled "Soil Cleanup Guidance", NYSDEC, 2010.

µg/kg = micrograms per kilogram or parts per billion.

B = Analyte detected in the associated blank, as well as in the sample.

Table 7-1C
Summary of Shallow Fill & Subsurface Soil Analytical Results for VOCs: 0' - 2' Depth
Highland Plaza Off-Site Area, Site No. C915293A
Tonawanda, New York



**Department of
Environmental
Conservation**

Notes (continued):

J = Compound is positively identified and reported at an estimated concentration.

NS = No standard given in 6 NYCRR Part 375 or Commissioner Policy CP-51.

Blanks = Contaminant analyzed for but not detected at or above the laboratory detection limit.

Yellow shaded values exceed the 6 NYCRR Part 375 unrestricted soil cleanup objectives but not the residential soil cleanup objectives.

Orange shaded values exceed the 6 NYCRR Part 375 unrestricted and residential soil cleanup objectives.

This table was modified on May 24, 2021 with the data validator's qualifiers.

Table 7-1D
 Summary of Shallow Fill & Subsurface Soil Analytical Results for VOCs: 0.0' - 2.0' Depth
 Highland Plaza Off-Site Area, Site No. C915293A
 Tonawanda, New York



Department of
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Sample Point	Unrestricted	Residential	SB-53	SB -26	SB-33	SB-40	SB-44	SB-54	SB-55	SB-56	SB-57
Sample Type	Soil Cleanup	Soil Cleanup	Fill	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Depth (ft)	Objectives *	Objectives *	1.0' - 1.2'	1.42' - 1.83'	0.0' - 4.0'	0.5' - 2.0'	0.5' - 2.0'	1.8' - 2.0'	1.0' - 1.5'	1.0' - 1.5'	1.0' - 1.5'
Sample Date			06/22/17	10/16/15	06/19/17	05/03/17	05/03/17	06/20/17	10/02/23	10/02/23	10/02/23
Volatile Organic Compounds (µg/kg)											
1,1,1-Trichloroethane	680.0	100,000									
1,1,2-Trichloroethane	NS	NS									
1,1-Dichloroethene	330.0	100,000									
cis-1,2-Dichloroethene	250.0	59,000	290 J		8.8			3.2 J			
trans-1,2-Dichloroethene	190.0	100,000	0.92 J								
Acetone	50.0	100,000						150 JH			40.0 J
Benzene	60.0	2,900									
Carbon Disulfide	NS	100,000 **									
Chloroform	370.0	10,000									
Chloromethane	NS	NS									
Ethylbenzene	1,000	30,000									
Methyl Cyclohexane	NS	NS									
Methyl Ethyl Ketone	120.0	100,000						32.0			
Methylene Chloride	50.0	51,000			2.4 J						
n-Propylbenzene	3,900	100,000									
tert-Butyl Ethyl Ether	NS	NS									
Tetrachloroethene	1,300	5,500	67,000	220.0	10,000	8.0 J	2.5 J	11.0	4.6	12.0	
Toluene	700.0	100,000	0.62 J		0.54 JH			0.60 J			
Trichloroethene	470.0	10,000	880.0		120.0			2.9 J	2.7	3.2	
1,2,4-Trimethylbenzene	3,600	47,000									
1,3,5-Trimethylbenzene	8,400	47,000									
Vinyl Chloride	20.0	210.0									
Xylene (Total)	260.0	100,000	1.6 J					1.0 J			

Notes:

* = 6 NYCRR Part 375: Environmental Remediation Programs, Unrestricted & Residential Soil Cleanup Objectives, NYSDEC, 2006.

** = Residential soil cleanup objective from Commissioner's Policy CP-51 entitled "Soil Cleanup Guidance", NYSDEC, 2010.

µg/kg = micrograms per kilogram or parts per billion.

B = Analyte detected in the associated blank, as well as in the sample.

Table 7-1D
Summary of Shallow Fill & Subsurface Soil Analytical Results for VOCs: 0.0' - 2.0' Depth
Highland Plaza Off-Site Area, Site No. C915293A
Tonawanda, New York



**Department of
Environmental
Conservation**

Notes (continued):

J = Compound is positively identified and reported at an estimated concentration.

JH = Compound is positively identified and reported at an estimated concentration that is probably high.

NS = No standard given in 6 NYCRR Part 375 or Commissioner Policy CP-51.

Blanks = Contaminant analyzed for but not detected at or above the laboratory detection limit.

Yellow shaded values exceed the 6 NYCRR Part 375 unrestricted soil cleanup objectives but not the residential soil cleanup objectives.

Orange shaded values exceed the 6 NYCRR Part 375 unrestricted and residential soil cleanup objectives.

This table was modified on April 9, 2021 with the data validator's qualifiers for the 2015 and 2017 results.

This table was modified on November 21, 2024 with the data validator's qualifiers for the 2023 results.

Table 7-1E
Summary of Shallow Fill & Subsurface Soil Analytical Results for VOCs: 0.0' - 2.0' Depth
Highland Plaza Off-Site Area, Site No. C915293A
Tonawanda, New York



Sample Point	Unrestricted	Residential	SB-58	SB -59	SB -60	SB -61	SB -62	SB -63	SB -64	MW-5R	MW-7
Sample Type	Soil Cleanup	Soil Cleanup	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Depth (ft)	Objectives *	Objectives *	1.0' - 1.5'	1.0' - 1.5'	1.0' - 1.5'	1.0' - 1.5'	1.0' - 1.5'	1.0' - 1.5'	1.0' - 1.5'	1.0' - 1.5'	1.0' - 1.5'
Sample Date			10/02/23	10/02/23	10/02/23	10/02/23	10/02/23	10/02/23	10/02/23	10/02/23	10/02/23
Volatile Organic Compounds (µg/kg)											
1,1,1-Trichloroethane	680.0	100,000									
1,1,2-Trichloroethane	NS	NS									
1,1-Dichloroethene	330.0	100,000									
cis-1,2-Dichloroethene	250.0	59,000		1.8 J	3.6	2.0					
trans-1,2-Dichloroethene	190.0	100,000									
Acetone	50.0	100,000	63.0 J	98.0 J							
Benzene	60.0	2,900									
Carbon Disulfide	NS	100,000 **									
Chloroform	370.0	10,000									
Chloromethane	NS	NS									
Ethylbenzene	1,000	30,000									
Methyl Cyclohexane	NS	NS			2.7 J	1.3 J					
Methyl Ethyl Ketone	120.0	100,000	8.2 J	14.0 J							
Methylene Chloride	50.0	51,000			1.7 J						
n-Propylbenzene	3,900	100,000									
tert-Butyl Ethyl Ether	NS	NS									
Tetrachloroethene	1,300	5,500			8,600	4.6		4.2		3.2	
Toluene	700.0	100,000			1.4 J					2.0 J	
Trichloroethene	470.0	10,000			6.0			2.1 J			
1,2,4-Trimethylbenzene	3,600	47,000									
1,3,5-Trimethylbenzene	8,400	47,000									
Vinyl Chloride	20.0	210.0									
Xylene (Total)	260.0	100,000									

Notes:

* = 6 NYCRR Part 375: Environmental Remediation Programs, Unrestricted & Residential Soil Cleanup Objectives, NYSDEC, 2006.

** = Residential soil cleanup objective from Commissioner's Policy CP-51 entitled "Soil Cleanup Guidance", NYSDEC, 2010.

µg/kg = micrograms per kilogram or parts per billion.

B = Analyte detected in the associated blank, as well as in the sample.

Table 7-1E
Summary of Shallow Fill & Subsurface Soil Analytical Results for VOCs: 0.0' - 2.0' Depth
Highland Plaza Off-Site Area, Site No. C915293A
Tonawanda, New York



**Department of
Environmental
Conservation**

Notes (continued):

J = Compound is positively identified and reported at an estimated concentration.

JH = Compound is positively identified and reported at an estimated concentration that is probably high.

NS = No standard given in 6 NYCRR Part 375 or Commissioner Policy CP-51.

Blanks = Contaminant analyzed for but not detected at or above the laboratory detection limit.

Yellow shaded values exceed the 6 NYCRR Part 375 unrestricted soil cleanup objectives but not the residential soil cleanup objectives.

Orange shaded values exceed the 6 NYCRR Part 375 unrestricted and residential soil cleanup objectives.

This table was modified on November 21, 2024 with the data validator's qualifiers.

Table 7-1F
Summary of Shallow Fill & Subsurface Soil Analytical Results for VOCs: 0.0' - 2.0' Depth
Highland Plaza Off-Site Area, Site No. C915293A
Tonawanda, New York



**Department of
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Sample Point Sample Type Depth (ft) Sample Date	Unrestricted Soil Cleanup Objectives *	Residential Soil Cleanup Objectives *	MW-4 Fill 0.0' - 2.0' 10/04/23	MW-4 ♠ Fill 0.0' - 2.0' 10/04/23							
Volatile Organic Compounds (µg/kg)											
1,1,1-Trichloroethane	680.0	100,000									
1,1,2-Trichloroethane	NS	NS									
1,1-Dichloroethene	330.0	100,000									
cis-1,2-Dichloroethene	250.0	59,000	270.0	350.0							
trans-1,2-Dichloroethene	190.0	100,000	2.9	3.3							
Acetone	50.0	100,000	15.0 J	38.0 J							
Benzene	60.0	2,900	1.9 J	1.9 J							
Carbon Disulfide	NS	100,000 **									
Chloroform	370.0	10,000									
Chloromethane	NS	NS									
Ethylbenzene	1,000	30,000	0.81 J	0.75 J							
Methyl Cyclohexane	NS	NS	9.6	8.8							
Methyl Ethyl Ketone	120.0	100,000									
Methylene Chloride	50.0	51,000		2.0 J							
n-Propylbenzene	3,900	100,000									
tert-Butyl Ethyl Ether	NS	NS									
Tetrachloroethene	1,300	5,500	23,000	53,000							
Toluene	700.0	100,000	6.5	6.9							
Trichloroethene	470.0	10,000	210.0	220.0							
1,2,4-Trimethylbenzene	3,600	47,000									
1,3,5-Trimethylbenzene	8,400	47,000									
Vinyl Chloride	20.0	210.0									
Xylene (Total)	260.0	100,000	5.9 J	6.1 J							

Notes:

* = 6 NYCRR Part 375: Environmental Remediation Programs, Unrestricted & Residential Soil Cleanup Objectives, NYSDEC, 2006.

** = Residential soil cleanup objective from Commissioner's Policy CP-51 entitled "Soil Cleanup Guidance", NYSDEC, 2010.

♠ = Duplicate sample.

µg/kg = micrograms per kilogram or parts per billion.

Table 7-1F
Summary of Shallow Fill & Subsurface Soil Analytical Results for VOCs: 0.0' - 2.0' Depth
Highland Plaza Off-Site Area, Site No. C915293A
Tonawanda, New York



**Department of
Environmental
Conservation**

Notes (continued):

B = Analyte detected in the associated blank, as well as in the sample.

J = Compound is positively identified and reported at an estimated concentration.

JH = Compound is positively identified and reported at an estimated concentration that is probably high.

NS = No standard given in 6 NYCRR Part 375 or Commissioner Policy CP-51.

Blanks = Contaminant analyzed for but not detected at or above the laboratory detection limit.

Yellow shaded values exceed the 6 NYCRR Part 375 unrestricted soil cleanup objectives but not the residential soil cleanup objectives.

Orange shaded values exceed the 6 NYCRR Part 375 unrestricted and residential soil cleanup objectives.

This table was modified on November 21, 2024 with the data validator's qualifiers.

Table 7-2A
 Summary of Shallow Subsurface Soil Analytical Results for VOCs: 2.0' - 4.0' Depth
 Highland Plaza Off-Site Area, Site No. C915293A
 Tonawanda, New York



Sample Point	Unrestricted	Residential	SB-33	SB-36	SB-39	SB-45	SB-47	SB-49	SB-51	SB-52	SB-53
Sample Type	Soil Cleanup	Soil Cleanup	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Depth (ft)	Objectives *	Objectives *	0.0' - 4.0'	2.0' - 4.0'	2.0' - 4.0'	2.0' - 2.2'	3.5' - 4.0'	2.0' - 4.0'	3.8' - 4.0'	3.8' - 4.0'	3.6' - 3.8'
Sample Date			06/19/17	05/04/17	05/04/17	06/20/17	06/21/17	06/21/17	06/22/17	06/22/17	06/22/17
Volatile Organic Compounds (µg/kg)											
1,1,1-Trichloroethane	680.0	100,000									
1,1,2-Trichloroethane	NS	NS									
1,1-Dichloroethene	330.0	100,000									
cis -1,2-Dichloroethene	250.0	59,000	8.8	0.74 J	2.2 J	61.0	11.0	130.0	2.6 J	3.8 J	100 J
trans-1,2-Dichloroethene	190.0	100,000				0.75 J					
Acetone	50.0	100,000		23.0 J	35.0 J	200 JH			12.0 JH		
Benzene	60.0	2,900									
Carbon Disulfide	NS	100,000 **		0.96 J							
Chloroform	370.0	10,000									
Chloromethane	NS	NS									
Ethylbenzene	1,000	30,000					0.38 J				
Methyl Cyclohexane	NS	NS									
Methyl Ethyl Ketone	120.0	100,000			11.0 J	35.0					
Methylene Chloride	50.0	51,000	2.4 J	1.6 J							
n-Propylbenzene	3,900	100,000									
tert-Butyl Ethyl Ether	NS	NS									
Tetrachloroethene	1,300	5,500	10,000	440 J	510 J	62.0	190 JH	4,600	80.0	4.9 J	23,000
Toluene	700.0	100,000	0.54 JH				0.66 J		0.43 J		
Trichloroethene	470.0	10,000	120.0	0.40 J	1.4 J	50.0	15.0	200.0	5.9	3.4 J	71.0 J
1,2,4-Trimethylbenzene	3,600	47,000									
1,3,5-Trimethylbenzene	8,400	47,000									
Vinyl Chloride	20.0	210.0									
Xylene (Total)	260.0	100,000					1.7 J		1.5 J		

Notes:

* = 6 NYCRR Part 375: Environmental Remediation Programs, Unrestricted & Residential Soil Cleanup Objectives, NYSDEC, 2006.

** = Residential soil cleanup objective from Commissioner's Policy CP-51 entitled "Soil Cleanup Guidance", NYSDEC, 2010.

µg/kg = micrograms per kilogram or parts per billion.

B = Analyte detected in the associated blank, as well as in the sample (organics).

Table 7-2A
Summary of Shallow Subsurface Soil Analytical Results for VOCs: 2.0' - 4.0' Depth
Highland Plaza Off-Site Area, Site No. C915293A
Tonawanda, New York



**Department of
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Notes (continued):

E = Result exceeded calibration range.

J = Compound is positively identified and reported at an estimated concentration.

JH = Compound is positively identified and reported at an estimated concentration that is probably high.

Blanks = Contaminant analyzed for but not detected at or above the laboratory detection limit.

Yellow shaded values exceed the 6 NYCRR Part 375 unrestricted soil cleanup objectives but not the residential soil cleanup objectives.

Orange shaded values exceed the 6 NYCRR Part 375 unrestricted and residential soil cleanup objectives.

This table was modified on April 9, 2021 with the data validator's qualifiers.

This table was checked on August 30, 2023.

Table 7-2B
Summary of Shallow Subsurface Soil Analytical Results for VOCs: 2.0' - 4.0' Depth
Highland Plaza Off-Site Area, Site No. C915293A
Tonawanda, New York



Sample Point	Unrestricted	Residential	SB-55	SB-55	SB-56	SB-56	SB-57	SB-57	SB-58	SB-58
Sample Type	Soil Cleanup	Soil Cleanup	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Depth (ft)	Objectives *	Objectives *	2.0' - 2.5'	3.5' - 4.0'	2.0' - 2.5'	3.5' - 4.0'	2.0' - 2.5'	3.5' - 4.0'	2.0' - 2.5'	3.5' - 4.0'
Sample Date			10/02/23	10/02/23	10/02/23	10/02/23	10/02/23	10/02/23	10/02/23	10/02/23
Volatile Organic Compounds (µg/kg)										
1,1,1-Trichloroethane	680.0	100,000								
1,1,2-Trichloroethane	NS	NS								
1,1-Dichloroethene	330.0	100,000								
cis -1,2-Dichloroethene	250.0	59,000							4.0	4.6
trans-1,2-Dichloroethene	190.0	100,000								
Acetone	50.0	100,000					13.0 J	10.0 J	32.0 J	
Benzene	60.0	2,900								
Carbon Disulfide	NS	100,000 **								
Chloroform	370.0	10,000								
Chloromethane	NS	NS								
Ethylbenzene	1,000	30,000								
Methyl Cyclohexane	NS	NS								
Methyl Ethyl Ketone	120.0	100,000								
Methylene Chloride	50.0	51,000							1.3 J	
n-Propylbenzene	3,900	100,000								
tert-Butyl Ethyl Ether	NS	NS								
Tetrachloroethene	1,300	5,500	1.7 J	1.6 J	19.0	14.0				
Toluene	700.0	100,000								
Trichloroethene	470.0	10,000	2.5 J		12.0	13.0				
1,2,4-Trimethylbenzene	3,600	47,000								
1,3,5-Trimethylbenzene	8,400	47,000								
Vinyl Chloride	20.0	210.0								
Xylene (Total)	260.0	100,000								

Notes:

* = 6 NYCRR Part 375: Environmental Remediation Programs, Unrestricted & Residential Soil Cleanup Objectives, NYSDEC, 2006.

** = Residential soil cleanup objective from Commissioner's Policy CP-51 entitled "Soil Cleanup Guidance", NYSDEC, 2010.

µg/kg = micrograms per kilogram or parts per billion.

B = Analyte detected in the associated blank, as well as in the sample (organics).

Table 7-2B
Summary of Shallow Subsurface Soil Analytical Results for VOCs: 2.0' - 4.0' Depth
Highland Plaza Off-Site Area, Site No. C915293A
Tonawanda, New York



**Department of
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Notes (continued):

E = Result exceeded calibration range.

J = Compound is positively identified and reported at an estimated concentration.

JH = Compound is positively identified and reported at an estimated concentration that is probably high.

Blanks = Contaminant analyzed for but not detected at or above the laboratory detection limit.

Yellow shaded values exceed the 6 NYCRR Part 375 unrestricted soil cleanup objectives but not the residential soil cleanup objectives.

Orange shaded values exceed the 6 NYCRR Part 375 unrestricted and residential soil cleanup objectives.

This table was modified on November 21, 2024 with the data validator's qualifiers.

Table 7-2C
Summary of Shallow Subsurface Soil Analytical Results for VOCs: 2.0' - 4.0' Depth
Highland Plaza Off-Site Area, Site No. C915293A
Tonawanda, New York



Sample Point	Unrestricted	Residential	SB -59	SB -59	SB -60	SB -60	SB -61	SB -61	SB -62	SB -62
Sample Type	Soil Cleanup	Soil Cleanup	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Depth (ft)	Objectives *	Objectives *	2.0' - 2.5'	3.5' - 4.0'	2.0' - 2.5'	3.5' - 4.0'	2.0' - 2.5'	3.5' - 4.0'	2.0' - 2.5'	3.5' - 4.0'
Sample Date			10/02/23	10/02/23	10/02/23	10/02/23	10/02/23	10/02/23	10/02/23	10/02/23
Volatile Organic Compounds (µg/kg)										
1,1,1-Trichloroethane	680.0	100,000								
1,1,2-Trichloroethane	NS	NS								
1,1-Dichloroethene	330.0	100,000			1.3 J					
cis -1,2-Dichloroethene	250.0	59,000	14.0	27.0	2,100	1,200				
trans-1,2-Dichloroethene	190.0	100,000			19.0	7.0				
Acetone	50.0	100,000	20.0 J	14.0 J	81.0 J	27.0 J	25.0 J	13.0 J		
Benzene	60.0	2,900								
Carbon Disulfide	NS	100,000 **			15.0					
Chloroform	370.0	10,000								
Chloromethane	NS	NS								
Ethylbenzene	1,000	30,000								
Methyl Cyclohexane	NS	NS								
Methyl Ethyl Ketone	120.0	100,000								
Methylene Chloride	50.0	51,000								
n-Propylbenzene	3,900	100,000								
tert-Butyl Ethyl Ether	NS	NS				13.0				
Tetrachloroethene	1,300	5,500			5.2	1.3 J				
Toluene	700.0	100,000								
Trichloroethene	470.0	10,000			1.5 J					
1,2,4-Trimethylbenzene	3,600	47,000								
1,3,5-Trimethylbenzene	8,400	47,000								
Vinyl Chloride	20.0	210.0								
Xylene (Total)	260.0	100,000								

Notes:

* = 6 NYCRR Part 375: Environmental Remediation Programs, Unrestricted & Residential Soil Cleanup Objectives, NYSDEC, 2006.

** = Residential soil cleanup objective from Commissioner's Policy CP-51 entitled "Soil Cleanup Guidance", NYSDEC, 2010.

µg/kg = micrograms per kilogram or parts per billion.

B = Analyte detected in the associated blank, as well as in the sample (organics).

Table 7-2C
Summary of Shallow Subsurface Soil Analytical Results for VOCs: 2.0' - 4.0' Depth
Highland Plaza Off-Site Area, Site No. C915293A
Tonawanda, New York



**Department of
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Notes (continued):

E = Result exceeded calibration range.

J = Compound is positively identified and reported at an estimated concentration.

JH = Compound is positively identified and reported at an estimated concentration that is probably high.

Blanks = Contaminant analyzed for but not detected at or above the laboratory detection limit.

Yellow shaded values exceed the 6 NYCRR Part 375 unrestricted soil cleanup objectives but not the residential soil cleanup objectives.

Orange shaded values exceed the 6 NYCRR Part 375 unrestricted and residential soil cleanup objectives.

This table was modified on November 21, 2024 with the data validator's qualifiers.

Table 7-2D
Summary of Shallow Subsurface Soil Analytical Results for VOCs: 2.0' - 4.0' Depth
Highland Plaza Off-Site Area, Site No. C915293A
Tonawanda, New York



Sample Point	Unrestricted	Residential	SB -63	SB -63	SB -64	SB -64	MW-5R	MW-5R	MW-7	MW-7
Sample Type	Soil Cleanup	Soil Cleanup	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Depth (ft)	Objectives *	Objectives *	2.0' - 2.5'	3.5' - 4.0'	2.0' - 2.5'	3.5' - 4.0'	2.0' - 2.5'	3.5' - 4.0'	2.0' - 2.5'	3.5' - 4.0'
Sample Date			10/02/23	10/02/23	10/02/23	10/02/23	10/02/23	10/02/23	10/02/23	10/02/23
Volatile Organic Compounds (µg/kg)										
1,1,1-Trichloroethane	680.0	100,000								
1,1,2-Trichloroethane	NS	NS								
1,1-Dichloroethene	330.0	100,000								
cis -1,2-Dichloroethene	250.0	59,000								
trans-1,2-Dichloroethene	190.0	100,000								
Acetone	50.0	100,000								
Benzene	60.0	2,900								
Carbon Disulfide	NS	100,000 **								
Chloroform	370.0	10,000								
Chloromethane	NS	NS								
Ethylbenzene	1,000	30,000								
Methyl Cyclohexane	NS	NS								
Methyl Ethyl Ketone	120.0	100,000								
Methylene Chloride	50.0	51,000								
n-Propylbenzene	3,900	100,000								
tert-Butyl Ethyl Ether	NS	NS								
Tetrachloroethene	1,300	5,500						2.3 J		
Toluene	700.0	100,000								
Trichloroethene	470.0	10,000					1.2 J			
1,2,4-Trimethylbenzene	3,600	47,000								
1,3,5-Trimethylbenzene	8,400	47,000								
Vinyl Chloride	20.0	210.0								
Xylene (Total)	260.0	100,000								

Notes:

* = 6 NYCRR Part 375: Environmental Remediation Programs, Unrestricted & Residential Soil Cleanup Objectives, NYSDEC, 2006.

** = Residential soil cleanup objective from Commissioner's Policy CP-51 entitled "Soil Cleanup Guidance", NYSDEC, 2010.

µg/kg = micrograms per kilogram or parts per billion.

B = Analyte detected in the associated blank, as well as in the sample (organics).

Table 7-2D
Summary of Shallow Subsurface Soil Analytical Results for VOCs: 2.0' - 4.0' Depth
Highland Plaza Off-Site Area, Site No. C915293A
Tonawanda, New York



**Department of
Environmental
Conservation**

Notes (continued):

E = Result exceeded calibration range.

J = Compound is positively identified and reported at an estimated concentration.

JH = Compound is positively identified and reported at an estimated concentration that is probably high.

Blanks = Contaminant analyzed for but not detected at or above the laboratory detection limit.

Yellow shaded values exceed the 6 NYCRR Part 375 unrestricted soil cleanup objectives but not the residential soil cleanup objectives.

Orange shaded values exceed the 6 NYCRR Part 375 unrestricted and residential soil cleanup objectives.

This table was modified on November 21, 2024 with the data validator's qualifiers.

Table 7-3A
Summary of Shallow Subsurface Soil Analytical Results for VOCs: 4.0' - 6.0' Depth
Highland Plaza Off-Site Area, Site No. C915293A
Tonawanda, New York



Sample Point	Unrestricted	Residential	SB-36	SB-55	SB-56	SB-57	SB-58	SB-59	SB-60
Sample Type	Soil Cleanup	Soil Cleanup	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Depth (ft)	Objectives *	Objectives *	4.0' - 6.0'	5.0' - 5.5'	5.0' - 5.5'	5.0' - 5.5'	5.0' - 5.5'	5.0' - 5.5'	5.0' - 5.5'
Sample Date			05/04/17	10/02/23	10/02/23	10/02/23	10/02/23	10/02/23	10/02/23
Volatile Organic Compounds (µg/kg)									
1,1,1-Trichloroethane	680.0	100,000							
1,1,2-Trichloroethane	NS	NS							
1,1-Dichloroethene	330.0	100,000							0.95 J
cis -1,2-Dichloroethene	250.0	59,000	1.5 J	0.83 J	7.9		5.8	61.0	1,500
trans-1,2-Dichloroethene	190.0	100,000							6.5
Acetone	50.0	100,000	21.0 J						18.0 J
Benzene	60.0	2,900							
Carbon Disulfide	NS	100,000 **							
Chloroform	370.0	10,000							
Chloromethane	NS	NS							
Ethylbenzene	1,000	30,000							
Methyl Cyclohexane	NS	NS							
Methyl Ethyl Ketone	120.0	100,000							
Methylene Chloride	50.0	51,000	1.2 J				2.2 J		
n-Propylbenzene	3,900	100,000							
tert-Butyl Ethyl Ether	NS	NS							
Tetrachloroethene	1,300	5,500	390 J		2.3 J			5.1	
Toluene	700.0	100,000							
Trichloroethene	470.0	10,000	4.7 J		7.5		2.1 J	5.2	
1,2,4-Trimethylbenzene	3,600	47,000							
1,3,5-Trimethylbenzene	8,400	47,000							
Vinyl Chloride	20.0	210.0							
Xylene (Total)	260.0	100,000							

Notes:

* = 6 NYCRR Part 375: Environmental Remediation Programs, Unrestricted & Residential Soil Cleanup Objectives, NYSDEC, 2006.

** = Residential soil cleanup objective from Commissioner's Policy CP-51 entitled "Soil Cleanup Guidance", NYSDEC, 2010.

µg/kg = micrograms per kilogram or parts per billion.

B = Analyte detected in the associated blank, as well as in the sample (organics).

Table 7-3A
Summary of Shallow Subsurface Soil Analytical Results for VOCs: 4.0' - 6.0' Depth
Highland Plaza Off-Site Area, Site No. C915293A
Tonawanda, New York



**Department of
Environmental
Conservation**

Notes (continued):

E = Result exceeded calibration range.

J = Compound is positively identified and reported at an estimated concentration.

JH = Compound is positively identified and reported at an estimated concentration that is probably high.

Blanks = Contaminant analyzed for but not detected at or above the laboratory detection limit.

Yellow shaded values exceed the 6 NYCRR Part 375 unrestricted soil cleanup objectives but not the residential soil cleanup objectives.

Orange shaded values exceed the 6 NYCRR Part 375 unrestricted and residential soil cleanup objectives.

This table was modified on April 9, 2021 with the data validator's qualifiers for the 2017 results.

This table was modified on November 21, 2024 with the data validator's qualifiers for the 2023 results.

Table 7-3B
Summary of Shallow Subsurface Soil Analytical Results for VOCs: 4.0' - 6.0' Depth
Highland Plaza Off-Site Area, Site No. C915293A
Tonawanda, New York



Sample Point Sample Type Depth (ft) Sample Date	Unrestricted Soil Cleanup Objectives *	Residential Soil Cleanup Objectives *	SB-61 Soil 5.0' - 5.5' 10/02/23	SB-62 Soil 5.0' - 5.5' 10/02/23	SB -63 Soil 5.0' - 5.5' 10/02/23	SB -64 Soil 5.0' - 5.5' 10/02/23	MW-5R Soil 5.0' - 5.5' 10/02/23	MW-7 Soil 5.0' - 5.5' 10/02/23	
Volatile Organic Compounds (µg/kg)									
1,1,1-Trichloroethane	680.0	100,000							
1,1,2-Trichloroethane	NS	NS							
1,1-Dichloroethene	330.0	100,000							
cis -1,2-Dichloroethene	250.0	59,000	0.75 J						
trans-1,2-Dichloroethene	190.0	100,000							
Acetone	50.0	100,000							
Benzene	60.0	2,900							
Carbon Disulfide	NS	100,000 **							
Chloroform	370.0	10,000							
Chloromethane	NS	NS							
Ethylbenzene	1,000	30,000							
Methyl Cyclohexane	NS	NS							
Methyl Ethyl Ketone	120.0	100,000							
Methylene Chloride	50.0	51,000							
n-Propylbenzene	3,900	100,000							
tert-Butyl Ethyl Ether	NS	NS							
Tetrachloroethene	1,300	5,500			3.8		1.7 J		
Toluene	700.0	100,000							
Trichloroethene	470.0	10,000							
1,2,4-Trimethylbenzene	3,600	47,000							
1,3,5-Trimethylbenzene	8,400	47,000							
Vinyl Chloride	20.0	210.0							
Xylene (Total)	260.0	100,000							

Notes:

* = 6 NYCRR Part 375: Environmental Remediation Programs, Unrestricted & Residential Soil Cleanup Objectives, NYSDEC, 2006.

** = Residential soil cleanup objective from Commissioner's Policy CP-51 entitled "Soil Cleanup Guidance", NYSDEC, 2010.

µg/kg = micrograms per kilogram or parts per billion.

B = Analyte detected in the associated blank, as well as in the sample (organics).

Table 7-3B
Summary of Shallow Subsurface Soil Analytical Results for VOCs: 4.0' - 6.0' Depth
Highland Plaza Off-Site Area, Site No. C915293A
Tonawanda, New York



**Department of
Environmental
Conservation**

Notes (continued):

E = Result exceeded calibration range.

J = Compound is positively identified and reported at an estimated concentration.

JH = Compound is positively identified and reported at an estimated concentration that is probably high.

Blanks = Contaminant analyzed for but not detected at or above the laboratory detection limit.

Yellow shaded values exceed the 6 NYCRR Part 375 unrestricted soil cleanup objectives but not the residential soil cleanup objectives.

Orange shaded values exceed the 6 NYCRR Part 375 unrestricted and residential soil cleanup objectives.

This table was modified on November 21, 2024 with the data validator's qualifiers for the 2023 results.

Table 7-4A
Summary of Shallow Subsurface Soil Analytical Results for VOCs: 6.0' - 8.0' Depth
Highland Plaza Off-Site Area, Site No. C915293A
Tonawanda, New York



Sample Point	Unrestricted	Residential	SB-20	SB-21	SB-22	SB-23	SB-25	SB-26	SB-28	SB-29	SB-30
Sample Type	Soil Cleanup	Soil Cleanup	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Depth (ft)	Objectives *	Objectives *	7.0' - 8.0'	7.0' - 8.0'	7.0' - 8.0'	6.0' - 7.0'	6.0' - 7.0'	7.0' - 8.0'	7.0' - 8.0'	7.0' - 8.0'	7.0' - 8.0'
Sample Date			10/15/15	10/15/15	10/15/15	10/15/15	10/16/15	10/16/15	10/16/15	10/16/15	06/19/17
Volatile Organic Compounds (µg/kg)											
1,1,1-Trichloroethane	680.0	100,000									
1,1,2-Trichloroethane	NS	NS									
1,1-Dichloroethene	330.0	100,000					2.9 J			0.50 J	
cis -1,2-Dichloroethene	250.0	59,000				82 J	290 E	0.57 J		1,200	
trans-1,2-Dichloroethene	190.0	100,000					1.8 J			1.2 J	
Acetone	50.0	100,000	3.3 J		4.4 J	10 J	45.0			3.5 J	
Benzene	60.0	2,900									
Carbon Disulfide	NS	100,000 **									
Chloroform	370.0	10,000					1.3 J				
Chloromethane	NS	NS									
Ethylbenzene	1,000	30,000									
Methyl Cyclohexane	NS	NS									
Methyl Ethyl Ketone	120.0	100,000									
Methylene Chloride	50.0	51,000									
n-Propylbenzene	3,900	100,000					0.43 J				
tert-Butyl Ethyl Ether	NS	NS									
Tetrachloroethene	1,300	5,500	0.95 J		0.63 J	4,900	740,000	5.4	0.62 J	18,000	
Toluene	700.0	100,000					0.48 J				
Trichloroethene	470.0	10,000				490.0	210 E			590.0	
1,2,4-Trimethylbenzene	3,600	47,000					1.5 J			250 J	
1,3,5-Trimethylbenzene	8,400	47,000					0.71 J				
Vinyl Chloride	20.0	210.0									
Xylene (Total)	260.0	100,000									

Notes:

* = 6 NYCRR Part 375: Environmental Remediation Programs, Unrestricted & Residential Soil Cleanup Objectives, NYSDEC, 2006.

** = Residential soil cleanup objective from Commissioner's Policy CP-51 entitled "Soil Cleanup Guidance", NYSDEC, 2010.

µg/kg = micrograms per kilogram or parts per billion.

B = Analyte detected in the associated blank, as well as in the sample (organics).

Table 7-4A
Summary of Shallow Subsurface Soil Analytical Results for VOCs: 6.0' - 8.0' Depth
Highland Plaza Off-Site Area, Site No. C915293A
Tonawanda, New York



**Department of
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Notes (continued):

E = Result exceeded calibration range.

J = Compound is positively identified and reported at an estimated concentration.

Blanks = Contaminant analyzed for but not detected at or above the laboratory detection limit.

Yellow shaded values exceed the 6 NYCRR Part 375 unrestricted soil cleanup objectives but not the residential soil cleanup objectives.

Orange shaded values exceed the 6 NYCRR Part 375 unrestricted and residential soil cleanup objectives.

This table was modified on May 24, 2021 with the data validator's qualifiers.

This table was checked on August 30, 2023.

Table 7-4B
Summary of Shallow Subsurface Soil Analytical Results for VOCs: 6.0' - 8.0' Depth
Highland Plaza Off-Site Area, Site No. C915293A
Tonawanda, New York



Sample Point	Unrestricted	Residential	SB-31	SB-32	SB-33	SB-34	SB-35	SB-36	SB-37	SB-38	SB-39
Sample Type	Soil Cleanup	Soil Cleanup	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Depth (ft)	Objectives *	Objectives *	7.0' - 8.0'	7.0' - 8.0'	7.0' - 8.0'	7.0' - 8.0'	7.0' - 8.0'	7.0' - 8.0'	7.0' - 8.0'	7.0' - 8.0'	7.0' - 8.0'
Sample Date			06/19/17	06/19/17	06/19/17	06/20/17	05/04/17	05/04/17	05/04/17	06/21/17	05/04/17
Volatile Organic Compounds (µg/kg)											
1,1,1-Trichloroethane	680.0	100,000									
1,1,2-Trichloroethane	NS	NS									
1,1-Dichloroethene	330.0	100,000									
cis -1,2-Dichloroethene	250.0	59,000			0.79 J		0.57 J	1.1 J	2.4 J		
trans-1,2-Dichloroethene	190.0	100,000									
Acetone	50.0	100,000						9.9 J			
Benzene	60.0	2,900									
Carbon Disulfide	NS	100,000 **									
Chloroform	370.0	10,000									
Chloromethane	NS	NS									
Ethylbenzene	1,000	30,000			0.40 J						
Methyl Cyclohexane	NS	NS									
Methyl Ethyl Ketone	120.0	100,000									
Methylene Chloride	50.0	51,000						1.1 J			
n-Propylbenzene	3,900	100,000									
tert-Butyl Ethyl Ether	NS	NS									
Tetrachloroethene	1,300	5,500		5.9 JH	15 B		41.0 J	140 J	14.0 J	4.6 J	23,000 J
Toluene	700.0	100,000		0.38 J	0.70 J					0.50 J	
Trichloroethene	470.0	10,000			1.2 J		0.72 J	2.6 J	3.2 J		
1,2,4-Trimethylbenzene	3,600	47,000									
1,3,5-Trimethylbenzene	8,400	47,000									
Vinyl Chloride	20.0	210.0									
Xylene (Total)	260.0	100,000	0.85 J		1.7 J						

Notes:

* = 6 NYCRR Part 375: Environmental Remediation Programs, Unrestricted & Residential Soil Cleanup Objectives, NYSDEC, 2006.

** = Residential soil cleanup objective from Commissioner's Policy CP-51 entitled "Soil Cleanup Guidance", NYSDEC, 2010.

µg/kg = micrograms per kilogram or parts per billion.

B = Analyte detected in the associated blank, as well as in the sample (organics).

Table 7-4B
Summary of Shallow Subsurface Soil Analytical Results for VOCs: 6.0' - 8.0' Depth
Highland Plaza Off-Site Area, Site No. C915293A
Tonawanda, New York



**Department of
Environmental
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Notes (continued):

E = Result exceeded calibration range.

J = Compound is positively identified and reported at an estimated concentration.

JH = Compound is positively identified and reported at an estimated concentration that is probably high.

Blanks = Contaminant analyzed for but not detected at or above the laboratory detection limit.

Yellow shaded values exceed the 6 NYCRR Part 375 unrestricted soil cleanup objectives but not the residential soil cleanup objectives.

Orange shaded values exceed the 6 NYCRR Part 375 unrestricted and residential soil cleanup objectives.

This table was modified on April 9, 2021 with the data validator's qualifiers.

This table was checked on August 30, 2023.

Table 7-4C
Summary of Shallow Subsurface Soil Analytical Results for VOCs: 6.0' - 8.0' Depth
Highland Plaza Off-Site Area, Site No. C915293A
Tonawanda, New York



Sample Point	Unrestricted	Residential	SB-40	SB-41	SB-44	SB-45	SB-46	SB-47	SB-48	SB-49	SB-50
Sample Type	Soil Cleanup	Soil Cleanup	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Depth (ft)	Objectives *	Objectives *	7.0' - 8.0'	7.0' - 8.0'	7.0' - 8.0'	7.0' - 8.0'	7.0' - 8.0'	7.0' - 8.0'	7.0' - 8.0'	7.0' - 8.0'	7.0' - 8.0'
Sample Date			05/03/17	06/22/17	05/03/17	06/20/17	06/20/17	06/21/17	06/21/17	06/21/17	06/22/17
Volatile Organic Compounds (µg/kg)											
1,1,1-Trichloroethane	680.0	100,000									
1,1,2-Trichloroethane	NS	NS									
1,1-Dichloroethene	330.0	100,000									
cis -1,2-Dichloroethene	250.0	59,000				90.0 J	36.0 J		48 J F1	6.2	100.0
trans-1,2-Dichloroethene	190.0	100,000									
Acetone	50.0	100,000									
Benzene	60.0	2,900									
Carbon Disulfide	NS	100,000 **									
Chloroform	370.0	10,000									
Chloromethane	NS	NS									
Ethylbenzene	1,000	30,000									
Methyl Cyclohexane	NS	NS									
Methyl Ethyl Ketone	120.0	100,000									
Methylene Chloride	50.0	51,000									
n-Propylbenzene	3,900	100,000									
tert-Butyl Ethyl Ether	NS	NS									
Tetrachloroethene	1,300	5,500	240 J	1.6 J	190 J	11,000	7,100	7,200 JH	1,400	96.0 JH	1,200 JH
Toluene	700.0	100,000								0.47 J	
Trichloroethene	470.0	10,000	2.3 J		1.3 J				100 J F1	4.0 J	46 J
1,2,4-Trimethylbenzene	3,600	47,000									
1,3,5-Trimethylbenzene	8,400	47,000									
Vinyl Chloride	20.0	210.0									
Xylene (Total)	260.0	100,000								1.4 J	

Notes:

* = 6 NYCRR Part 375: Environmental Remediation Programs, Unrestricted & Residential Soil Cleanup Objectives, NYSDEC, 2006.

** = Residential soil cleanup objective from Commissioner's Policy CP-51 entitled "Soil Cleanup Guidance", NYSDEC, 2010.

µg/kg = micrograms per kilogram or parts per billion.

B = Analyte detected in the associated blank, as well as in the sample (organics).

Table 7-4C
Summary of Shallow Subsurface Soil Analytical Results for VOCs: 6.0' - 8.0' Depth
Highland Plaza Off-Site Area, Site No. C915293A
Tonawanda, New York



**Department of
Environmental
Conservation**

Notes (continued):

E = Result exceeded calibration range.

J = Compound is positively identified and reported at an estimated concentration.

JH = Compound is positively identified and reported at an estimated concentration that is probably high.

Blanks = Contaminant analyzed for but not detected at or above the laboratory detection limit.

Yellow shaded values exceed the 6 NYCRR Part 375 unrestricted soil cleanup objectives but not the residential soil cleanup objectives.

Orange shaded values exceed the 6 NYCRR Part 375 unrestricted and residential soil cleanup objectives.

This table was modified on April 9, 2021 with the data validator's qualifiers.

This table was checked on August 30, 2023.

Table 7-4D
Summary of Shallow Subsurface Soil Analytical Results for VOCs: 6.0' - 8.0' Depth
Highland Plaza Off-Site Area, Site No. C915293A
Tonawanda, New York



Sample Point	Unrestricted	Residential	SB-51	SB-52	SB-52	SB-53	SB-54	SB-55	SB-55	SB-56	SB-56
Sample Type	Soil Cleanup	Soil Cleanup	Soil	Soil	Duplicate	Soil	Soil	Soil	Soil	Soil	Soil
Depth (ft)	Objectives *	Objectives *	7.0' - 8.0'	7.0' - 8.0'	7.0' - 8.0'	7.0' - 8.0'	7.0' - 8.0'	6.0' - 6.5'	7.5' - 8.0'	6.0' - 6.5'	7.5' - 8.0'
Sample Date			06/22/17	06/22/17	06/22/17	06/22/17	06/20/17	10/02/23	10/02/23	10/02/23	10/02/23
Volatile Organic Compounds (µg/kg)											
1,1,1-Trichloroethane	680.0	100,000									
1,1,2-Trichloroethane	NS	NS									
1,1-Dichloroethene	330.0	100,000									
cis -1,2-Dichloroethene	250.0	59,000	15.0 J	23.0 JH	16.0	2.6 J		1.0 J		12.0	
trans-1,2-Dichloroethene	190.0	100,000									
Acetone	50.0	100,000			5.7 JH	4.8 J					
Benzene	60.0	2,900									
Carbon Disulfide	NS	100,000 **									
Chloroform	370.0	10,000									
Chloromethane	NS	NS									
Ethylbenzene	1,000	30,000		0.44 J	0.44 J	0.54 JH					
Methyl Cyclohexane	NS	NS									
Methyl Ethyl Ketone	120.0	100,000				5.2 J					
Methylene Chloride	50.0	51,000									
n-Propylbenzene	3,900	100,000									
tert-Butyl Ethyl Ether	NS	NS									
Tetrachloroethene	1,300	5,500	1,300 JH	93.0 JH	120.0	28,000	1,900				
Toluene	700.0	100,000		0.55 J	0.67 J	0.61 JH					
Trichloroethene	470.0	10,000	26.0 J	29.0	20.0	30.0 JH				2.0 J	
1,2,4-Trimethylbenzene	3,600	47,000									
1,3,5-Trimethylbenzene	8,400	47,000									
Vinyl Chloride	20.0	210.0									
Xylene (Total)	260.0	100,000		3.0 J	3.2 J	5.2 JH					

Notes:

* = 6 NYCRR Part 375: Environmental Remediation Programs, Unrestricted & Residential Soil Cleanup Objectives, NYSDEC, 2006.

** = Residential soil cleanup objective from Commissioner's Policy CP-51 entitled "Soil Cleanup Guidance", NYSDEC, 2010.

µg/kg = micrograms per kilogram or parts per billion.

B = Analyte detected in the associated blank, as well as in the sample (organics).

Table 7-4D
Summary of Shallow Subsurface Soil Analytical Results for VOCs: 6.0' - 8.0' Depth
Highland Plaza Off-Site Area, Site No. C915293A
Tonawanda, New York



**Department of
Environmental
Conservation**

Notes (continued):

E = Result exceeded calibration range.

F1 = MS and/or MSD recovery is outside acceptance limits.

J = Compound is positively identified and reported at an estimated concentration.

JH = Compound is positively identified and reported at an estimated concentration that is probably high.

Blanks = Contaminant analyzed for but not detected at or above the laboratory detection limit.

Yellow shaded values exceed the 6 NYCRR Part 375 unrestricted soil cleanup objectives but not the residential soil cleanup objectives.

Orange shaded values exceed the 6 NYCRR Part 375 unrestricted and residential soil cleanup objectives.

This table was modified on April 9, 2021 with the data validator's qualifiers for the 2017 results.

This table was modified on November 21, 2024 with the data validator's qualifiers for the 2023 results.

Table 7-4E
Summary of Shallow Subsurface Soil Analytical Results for VOCs: 6.0' - 8.0' Depth
Highland Plaza Off-Site Area, Site No. C915293A
Tonawanda, New York



Sample Point	Unrestricted	Residential	SB-57	SB-57	SB-58	SB-58	SB-59	SB-59	SB-60	SB-60
Sample Type	Soil Cleanup	Soil Cleanup	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Depth (ft)	Objectives *	Objectives *	6.0' - 6.5'	7.5' - 8.0'	6.0' - 6.5'	7.5' - 8.0'	6.0' - 6.5'	7.5' - 8.0'	6.0' - 6.5'	7.5' - 8.0'
Sample Date			10/02/23	10/02/23	10/02/23	10/02/23	10/02/23	10/02/23	10/02/23	10/02/23
Volatile Organic Compounds (µg/kg)										
1,1,1-Trichloroethane	680.0	100,000								
1,1,2-Trichloroethane	NS	NS								27.0 J
1,1-Dichloroethene	330.0	100,000								
cis -1,2-Dichloroethene	250.0	59,000	0.76 J		11.0	11.0	27.0	54.0	5,300	3,500
trans-1,2-Dichloroethene	190.0	100,000								
Acetone	50.0	100,000					12.0 J			
Benzene	60.0	2,900								
Carbon Disulfide	NS	100,000 **								
Chloroform	370.0	10,000								
Chloromethane	NS	NS							65.0 J	
Ethylbenzene	1,000	30,000								
Methyl Cyclohexane	NS	NS								
Methyl Ethyl Ketone	120.0	100,000								
Methylene Chloride	50.0	51,000								
n-Propylbenzene	3,900	100,000								
tert-Butyl Ethyl Ether	NS	NS								
Tetrachloroethene	1,300	5,500			15.0	20.0	26.0	52.0		4,800
Toluene	700.0	100,000								
Trichloroethene	470.0	10,000			8.0	9.2	7.7	18.0		910.0
1,2,4-Trimethylbenzene	3,600	47,000								
1,3,5-Trimethylbenzene	8,400	47,000								
Vinyl Chloride	20.0	210.0								
Xylene (Total)	260.0	100,000								

Notes:

* = 6 NYCRR Part 375: Environmental Remediation Programs, Unrestricted & Residential Soil Cleanup Objectives, NYSDEC, 2006.

** = Residential soil cleanup objective from Commissioner's Policy CP-51 entitled "Soil Cleanup Guidance", NYSDEC, 2010.

µg/kg = micrograms per kilogram or parts per billion.

B = Analyte detected in the associated blank, as well as in the sample (organics).

Table 7-4E
Summary of Shallow Subsurface Soil Analytical Results for VOCs: 6.0' - 8.0' Depth
Highland Plaza Off-Site Area, Site No. C915293A
Tonawanda, New York



**Department of
Environmental
Conservation**

Notes (continued):

E = Result exceeded calibration range.

F1 = MS and/or MSD recovery is outside acceptance limits.

J = Compound is positively identified and reported at an estimated concentration.

JH = Compound is positively identified and reported at an estimated concentration that is probably high.

Blanks = Contaminant analyzed for but not detected at or above the laboratory detection limit.

Yellow shaded values exceed the 6 NYCRR Part 375 unrestricted soil cleanup objectives but not the residential soil cleanup objectives.

Orange shaded values exceed the 6 NYCRR Part 375 unrestricted and residential soil cleanup objectives.

This table was modified on November 21, 2024 with the data validator's qualifiers.

Table 7-4F
Summary of Shallow Subsurface Soil Analytical Results for VOCs: 6.0' - 8.0' Depth
Highland Plaza Off-Site Area, Site No. C915293A
Tonawanda, New York



Sample Point	Unrestricted	Residential	SB -61	SB -61	SB -62	SB -62	SB -63	SB -63	SB -64	SB -64
Sample Type	Soil Cleanup	Soil Cleanup	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Depth (ft)	Objectives *	Objectives *	6.0' - 6.5'	7.5' - 8.0'	6.0' - 6.5'	7.5' - 8.0'	6.0' - 6.5'	7.5' - 8.0'	6.0' - 6.5'	7.5' - 8.0'
Sample Date			10/02/23	10/02/23	10/02/23	10/02/23	10/02/23	10/02/23	10/02/23	10/02/23
Volatile Organic Compounds (µg/kg)										
1,1,1-Trichloroethane	680.0	100,000								
1,1,2-Trichloroethane	NS	NS								
1,1-Dichloroethene	330.0	100,000								
cis -1,2-Dichloroethene	250.0	59,000	1.2 J	1.4 J						
trans-1,2-Dichloroethene	190.0	100,000								
Acetone	50.0	100,000								
Benzene	60.0	2,900								
Carbon Disulfide	NS	100,000 **								
Chloroform	370.0	10,000								
Chloromethane	NS	NS								
Ethylbenzene	1,000	30,000								
Methyl Cyclohexane	NS	NS								
Methyl Ethyl Ketone	120.0	100,000								
Methylene Chloride	50.0	51,000								
n-Propylbenzene	3,900	100,000								
tert-Butyl Ethyl Ether	NS	NS								
Tetrachloroethene	1,300	5,500		2.1 J			7.6	7.0		
Toluene	700.0	100,000								
Trichloroethene	470.0	10,000		1.1 J						
1,2,4-Trimethylbenzene	3,600	47,000								
1,3,5-Trimethylbenzene	8,400	47,000								
Vinyl Chloride	20.0	210.0								
Xylene (Total)	260.0	100,000								

Notes:

* = 6 NYCRR Part 375: Environmental Remediation Programs, Unrestricted & Residential Soil Cleanup Objectives, NYSDEC, 2006.

** = Residential soil cleanup objective from Commissioner's Policy CP-51 entitled "Soil Cleanup Guidance", NYSDEC, 2010.

µg/kg = micrograms per kilogram or parts per billion.

B = Analyte detected in the associated blank, as well as in the sample (organics).

Table 7-4F
Summary of Shallow Subsurface Soil Analytical Results for VOCs: 6.0' - 8.0' Depth
Highland Plaza Off-Site Area, Site No. C915293A
Tonawanda, New York



**Department of
Environmental
Conservation**

Notes (continued):

E = Result exceeded calibration range.

F1 = MS and/or MSD recovery is outside acceptance limits.

J = Compound is positively identified and reported at an estimated concentration.

JH = Compound is positively identified and reported at an estimated concentration that is probably high.

Blanks = Contaminant analyzed for but not detected at or above the laboratory detection limit.

Yellow shaded values exceed the 6 NYCRR Part 375 unrestricted soil cleanup objectives but not the residential soil cleanup objectives.

Orange shaded values exceed the 6 NYCRR Part 375 unrestricted and residential soil cleanup objectives.

This table was modified on November 21, 2024 with the data validator's qualifiers.

Table 7-4G
Summary of Shallow Subsurface Soil Analytical Results for VOCs: 6.0' - 8.0' Depth
Highland Plaza Off-Site Area, Site No. C915293A
Tonawanda, New York



Sample Point	Unrestricted	Residential	MW-5R	MW-5R	MW-7	MW-7				
Sample Type	Soil Cleanup	Soil Cleanup	Soil	Soil	Soil	Soil				
Depth (ft)	Objectives *	Objectives *	6.0' - 6.5'	7.5' - 8.0'	6.0' - 6.5'	7.5' - 8.0'				
Sample Date			10/02/23	10/02/23	10/02/23	10/02/23				
Volatile Organic Compounds (µg/kg)										
1,1,1-Trichloroethane	680.0	100,000								
1,1,2-Trichloroethane	NS	NS								
1,1-Dichloroethene	330.0	100,000								
cis -1,2-Dichloroethene	250.0	59,000								
trans-1,2-Dichloroethene	190.0	100,000								
Acetone	50.0	100,000								
Benzene	60.0	2,900								
Carbon Disulfide	NS	100,000 **								
Chloroform	370.0	10,000								
Chloromethane	NS	NS								
Ethylbenzene	1,000	30,000								
Methyl Cyclohexane	NS	NS								
Methyl Ethyl Ketone	120.0	100,000								
Methylene Chloride	50.0	51,000								
n-Propylbenzene	3,900	100,000								
tert-Butyl Ethyl Ether	NS	NS								
Tetrachloroethene	1,300	5,500	4.0	5.0						
Toluene	700.0	100,000								
Trichloroethene	470.0	10,000								
1,2,4-Trimethylbenzene	3,600	47,000								
1,3,5-Trimethylbenzene	8,400	47,000								
Vinyl Chloride	20.0	210.0								
Xylene (Total)	260.0	100,000								

Notes:

* = 6 NYCRR Part 375: Environmental Remediation Programs, Unrestricted & Residential Soil Cleanup Objectives, NYSDEC, 2006.

** = Residential soil cleanup objective from Commissioner's Policy CP-51 entitled "Soil Cleanup Guidance", NYSDEC, 2010.

µg/kg = micrograms per kilogram or parts per billion.

B = Analyte detected in the associated blank, as well as in the sample (organics).

Table 7-4G
Summary of Shallow Subsurface Soil Analytical Results for VOCs: 6.0' - 8.0' Depth
Highland Plaza Off-Site Area, Site No. C915293A
Tonawanda, New York



**Department of
Environmental
Conservation**

Notes (continued):

E = Result exceeded calibration range.

F1 = MS and/or MSD recovery is outside acceptance limits.

J = Compound is positively identified and reported at an estimated concentration.

JH = Compound is positively identified and reported at an estimated concentration that is probably high.

Blanks = Contaminant analyzed for but not detected at or above the laboratory detection limit.

Yellow shaded values exceed the 6 NYCRR Part 375 unrestricted soil cleanup objectives but not the residential soil cleanup objectives.

Orange shaded values exceed the 6 NYCRR Part 375 unrestricted and residential soil cleanup objectives.

This table was modified on November 21, 2024 with the data validator's qualifiers.

Table 7-5A
Summary of Groundwater Analytical Results for VOCs
Highland Plaza Off-Site Area, Site No. C915293A
Tonawanda, New York



Well Number Well Location Well Screen Interval (feet bgs) Sample Date	NYSDEC Groundwater Standard ●	MW-1 On-Site 14.0 - 24.0					MW-2 On-Site 14.0 - 24.0				
		12/22/15	12/21/17	06/21/19	05/17/21	08/06/24	12/22/15	12/21/17	06/21/19	05/17/21	08/07/24
Volatile Organic Compounds (µg/L)											
1,1,1-Trichloroethane	5.0										
1,1-Dichloroethene	5.0										
cis -1,2-Dichloroethene	5.0										
trans-1,2-Dichloroethene	5.0										
Acetone	50.0	5.4 J		19.0							
Benzene	1.0										
Chloroform	7.0										
Methyl ethyl ketone	50 G										
Methylene chloride	5.0										
n-Propylbenzene	5.0										
Tetrachloroethene	5.0										
Toluene	5.0										
Trichloroethene	5.0										
1,2,4-Trimethylbenzene	5.0										
1,3,5-Trimethylbenzene	5.0										
Vinyl chloride	2.0										
Xylene (Total)	5.0										

Notes:

- = NYSDEC Ambient Water Quality Standards and Guidance Values, June 1998, with addenda through 2004.
- µg/L = micrograms per liter or parts per billion.
- G = Guidance value.
- J = Compound reported at an estimated concentration.
- Blanks = Contaminant analyzed for but not detected at or above the laboratory detection limit.
- Yellow shaded values exceed NYSDEC groundwater standards or guidance values.
- This table was modified on April 29, 2021 with the data validator's qualifiers for the 2015, 2017 and 2019 results.
- This table was modified on April 26, 2022 with the data validator's qualifiers for the the 2021 results.
- This table was modified on September 8, 2025 with the data validator's qualifiers for the the 2024 results.

Table 7-5B
Summary of Groundwater Analytical Results for VOCs
Highland Plaza Off-Site Area, Site No. C915293A
Tonawanda, New York



Well Number Well Location Well Screen Interval (feet bgs) Sample Date	NYSDEC Groundwater Standard ●	MW-3 On-Site 14.0 - 24.0					MW-4 Off-Site 14.0 - 24.0				
		12/22/15	12/20/17	06/21/19	05/17/21	08/07/24	12/22/15	12/20/17	06/21/19	05/17/21	08/07/24
Volatile Organic Compounds (µg/L)											
1,1,1-Trichloroethane	5.0										
1,1-Dichloroethene	5.0						10.0 J			7.8 J	
cis -1,2-Dichloroethene	5.0	24.0	5.7		5.8	7.9	900 J	2,300		1,500 J ♣	5,000
trans-1,2-Dichloroethene	5.0										
Acetone	50.0				16.0						
Benzene	1.0										
Chloroform	7.0										
Methyl ethyl ketone	50 G										
Methylene chloride	5.0										
n-Propylbenzene	5.0										
Tetrachloroethene	5.0		0.49 J	0.47 J	150.0 ♣		58,000 ♣	120,000 ♣	52,000	84,000 J ♣	67,000 ♣
Toluene	5.0										
Trichloroethene	5.0	0.85 J			1.9	0.46 J	740.0	1,900 J ♣		610.0 ♣	5,200
1,2,4-Trimethylbenzene	5.0										
1,3,5-Trimethylbenzene	5.0										
Vinyl chloride	2.0										
Xylene (Total)	5.0										

Notes:

- = NYSDEC Ambient Water Quality Standards and Guidance Values, June 1998, with addenda through 2004.
- µg/L = micrograms per liter or parts per billion.
- ♣ = Results of a diluted sample analysis.
- G = Guidance value.
- J = Compound reported at an estimated concentration.
- Blanks = Contaminant analyzed for but not detected at or above the laboratory detection limit.
- Yellow shaded values exceed NYSDEC groundwater standards or guidance values.
- This table was modified on April 29, 2021 with the data validator's qualifiers for the 2015, 2017 and 2019 results.
- This table was modified on April 26, 2022 with the data validator's qualifiers for the the 2021 results.
- This table was modified on September 8, 2025 with the data validator's qualifiers for the the 2024 results.

Table 7-5C
 Summary of Groundwater Analytical Results for VOCs
 Highland Plaza Off-Site Area, Site No. C915293A
 Tonawanda, New York



Well Number Well Location Well Screen Interval (feet bgs) Sample Date	NYSDEC Groundwater Standard ●	MW-5 *				MW-5R	MW-6	MW-7
		Off-Site				Off-Site	Off-Site	Off-Site
		14.0 - 24.0				14.0 - 24.0	14.0 - 24.0	14.0 - 24.0
		12/22/15	12/20/17	06/21/19	05/17/21	08/07/24	08/07/24	08/07/24
Volatile Organic Compounds (µg/L)								
1,1,1-Trichloroethane	5.0							
1,1-Dichloroethene	5.0							
cis -1,2-Dichloroethene	5.0	1,100	900.0	580.0	220 J ♣			
trans-1,2-Dichloroethene	5.0	34.0		18.0	5.3 J			
Acetone	50.0							
Benzene	1.0							
Chloroform	7.0				0.61 J	0.66 J		
Methyl ethyl ketone	50 G							
Methylene chloride	5.0							
n-Propylbenzene	5.0							
Tetrachloroethene	5.0	3,000 ♣	1,900	200.0	2,200 J ♣			
Toluene	5.0							
Trichloroethene	5.0	1,700	1,000	130.0	170 J ♣			
1,2,4-Trimethylbenzene	5.0							
1,3,5-Trimethylbenzene	5.0							
Vinyl chloride	2.0							
Xylene (Total)	5.0							

Notes:

- = NYSDEC Ambient Water Quality Standards and Guidance Values, June 1998, with addenda through 2004.
- * = This well was found destroyed in August 2023 and replaced in October 2023 by well MW-5R. See text for more details.
- µg/L = micrograms per liter or parts per billion.
- ♣ = Results of a diluted sample analysis.
- G = Guidance value.
- J = Compound reported at an estimated concentration.
- Blanks = Contaminant analyzed for but not detected at or above the laboratory detection limit.
- Yellow shaded values exceed NYSDEC groundwater standards or guidance values.
- This table was modified on April 29, 2021 with the data validator's qualifiers for the 2015, 2017 and 2019 results.
- This table was modified on April 26, 2022 with the data validator's qualifiers for the the 2021 results.
- This table was modified on September 8, 2025 with the data validator's qualifiers for the the 2024 results.