

APPENDIX III



PHOTO 1 Wetland W1 – View northwest of DEC Wetland IN-4



PHOTO 2 View south of depression/Wetland W1 in farm field



PHOTO 3 Atypical soil profile found at Wetland Point W1-Wet-1 within tilled field



PHOTO 4 Representative wooded wetland along northeastern Site edge



PHOTO 5 View south of Wetland W2 – isolated depression within westernmost ag field



PHOTO 6 Standing water within Wetland W3 in hedgerow between ag fields



PHOTO 7 Soil at 6" below ground surface at W3-Wet-3 within ag field



PHOTO 8 View south of emergent portion of Wetland W3 within ag field



PHOTO 9 View north of intermittent watercourse within Wetland W4



PHOTO 10 Banks of tributary were steep/prone to erosion throughout Wetland W4



PHOTO 11 Open water within forested wetland complex of Wetland W4



PHOTO 12 Vernal Pool 1 – north of Wetland W4 and east of central ag fields



PHOTO 13 Linear drainage corridor within hedgerow - Wetland W5



PHOTO 14 View north of Wetland W6 located at toe of slope near entrance to ag field



PHOTO 15 Representative photo of un-mowed ag fields on Site



PHOTO 16 View east of Wetland W7 at northeast corner of Site



PHOTO 17 View south of Wetland W7's confluence with Mohawk River



PHOTO 18 View north of water line on red maple within Wetland W7/linear corridor



PHOTO 19 View west of emergent portion of Wetland W7 complex within ag field

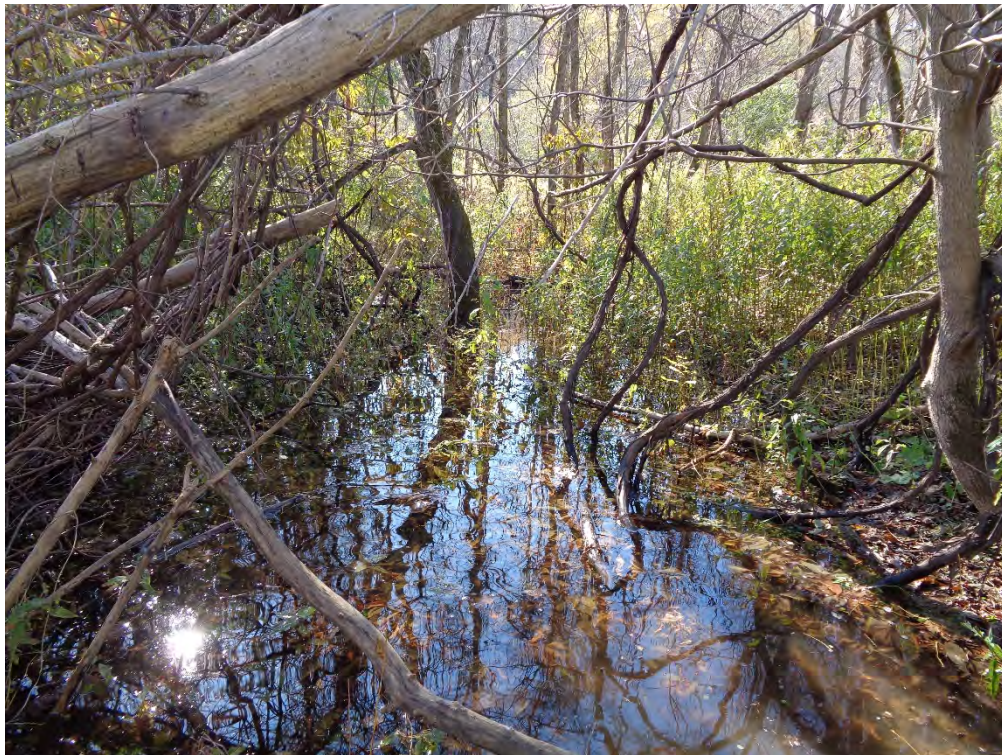


PHOTO 20 View east of linear drainage to Wetland W7 along northern Site limit



PHOTO 21 Significant standing/flood water present in westernmost field on 11/4/19



PHOTO 22 View north of Wetland W9 within westernmost ag field

APPENDIX IV

TWT Mohawk Site

DIEHLUX Wetland Delineation GPS Coordinates - 10/10/19-10/11/19, 10/21/2019 & 11/4/2019

Longitude	Latitude	Comment/Flag No.
-75.12080309	43.075661	w1-1start
-75.12085481	43.07558607	w1-2
-75.12096804	43.07561659	w1-3
-75.12109521	43.07565026	w1-4
-75.12126578	43.07568305	w1-5
-75.12147353	43.07574843	w1-6
-75.12155137	43.07559801	w1-7
-75.12164911	43.07553146	w1-8
-75.12159482	43.07536073	w1-9
-75.12140154	43.07531863	w1-10
-75.12139056	43.07522387	w1-11
-75.12151246	43.07505695	w1-12
-75.121439	43.075275	w1-wet-1
-75.12149596	43.07501471	w1-13
-75.121195	43.075273	w1-up-1
-75.12140547	43.07506532	w1-14
-75.12141875	43.07496161	w1-15
-75.121598	43.07487749	w1-16
-75.12176453	43.07486948	w1-17
-75.12186231	43.07478645	w1-18
-75.12199162	43.07468753	w1-19
-75.12205851	43.07473595	w1-20
-75.1221081	43.07469893	w1-21
-75.12218625	43.07471133	w1-22
-75.122082	43.074808	w1-23
-75.12203113	43.07487568	w1-24
-75.12193367	43.07497844	w1-25
-75.12193154	43.07507725	w1-26
-75.12210607	43.0750934	w1-27
-75.12225945	43.07494794	w1-28
-75.12238666	43.07484445	w1-29
-75.12250866	43.0747153	w1-30
-75.12257015	43.07462404	w1-31
-75.12260899	43.07450943	w1-32
-75.12264492	43.07441349	w1-33
-75.1227041	43.07434189	w1-34
-75.12274707	43.07424467	w1-35
-75.12278394	43.07411627	w1-36
-75.12266479	43.07408675	w1-37
-75.12259732	43.07394682	w1-38
-75.12268587	43.0738596	w1-39
-75.12261342	43.07374854	w1-40
-75.12259835	43.07362423	w1-41
-75.12268048	43.07354336	w1-42
-75.12277042	43.07350195	w1-43
-75.12288988	43.07357392	w1-44

TWT Mohawk Site

DIEHLUX Wetland Delineation GPS Coordinates - 10/10/19-10/11/19, 10/21/2019 & 11/4/2019

-75.12309573	43.0735798	w1-45
-75.12320365	43.07348672	w1-46
-75.12322011	43.07337888	w1-47
-75.12332337	43.07329611	w1-48
-75.12340878	43.07321357	w1-49
-75.12349809	43.07327693	w1-50
-75.12365215	43.07326122	w1-51
-75.12367084	43.07335913	w1-52
-75.12380729	43.07334132	w1-53
-75.12374174	43.07341845	w1-54
-75.12363292	43.0734396	w1-55
-75.12359605	43.07354227	w1-56
-75.1237935	43.07349122	w1-57
-75.12383066	43.07347599	w1-58
-75.12387957	43.07342942	24 inch concrete culvert outfall
-75.12385287	43.07341336	w1-59
-75.12385002	43.07330859	w1-60
-75.12393586	43.07325431	w1-61 + south
-75.12177907	43.0758515	up1-1
-75.12189586	43.07589337	up1-2
-75.121986	43.07595	up1-3
-75.12208014	43.07598742	up1-4
-75.12207351	43.075939	up1-5
-75.12193361	43.07586713	up1-6
-75.12181615	43.07583578	up1-7
-75.12179121	43.07585237	w1-up-2
-75.1218471	43.0758091	w1-wet-2
-75.12682044	43.0779713	w1-wet-3
-75.1267871	43.0780491	w1-up-3
-75.12171762	43.07577139	up1-8
-75.12165851	43.07578984	up1-9
-75.12164966	43.07580738	up1-10 connect to up1-1
-75.12091426	43.07571396	W1-1x
-75.12097943	43.07577948	W1-2x
-75.1212475	43.07587435	W1-3x
-75.12163901	43.07602799	W1-4x
-75.12207173	43.07619498	W1-5x
-75.12258945	43.07640221	W1-6x
-75.12307716	43.07658741	W1-7x
-75.12361943	43.07680423	W1-8x
-75.12403148	43.07696236	W1-9x
-75.1245642	43.0771461	W1-10x
-75.12486861	43.07729002	W1-11x
-75.12528699	43.07744396	W1-12x
-75.12566786	43.07759174	W1-13x
-75.12601052	43.07772654	W1-14x
-75.12643093	43.07788947	W1-15x

TWT Mohawk Site

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-75.12683378	43.07804215	W1-16x
-75.12723434	43.07823657	W1-17x
-75.12739278	43.0783048	W1-18x
-75.12770269	43.07838485	W1-19x, end
-75.12072334	43.07531343	W2-1 start
-75.12074262	43.07523883	W2-2
-75.12087724	43.07515127	W2-3
-75.12090816	43.07516426	W2-4
-75.12091259	43.07522644	W2-5
-75.1208402	43.07531498	W2-6, to W2-1
-75.12071004	43.07536165	w2-Up-1
-75.1207906	43.07523518	w2-Wet-1
-75.12011648	43.07529258	w3-1 start
-75.12025987	43.07535687	w3-2
-75.12037544	43.0753912	w3-3
-75.12036373	43.07540048	w3-wet
-75.12043717	43.0753071	w3-up-1
-75.1204676	43.0754687	w3-4
-75.12041523	43.07549424	w3-5
-75.12031617	43.07544059	w3-6
-75.12016528	43.07538476	w3-7
-75.12003294	43.07533844	w3-8
-75.11985759	43.07528783	w3-9
-75.11999305	43.07519298	w3-10
-75.12005834	43.07513505	w3-11
-75.12018723	43.0749827	w3-12
-75.12026164	43.0748463	w3-13
-75.12037303	43.07473844	w3-14
-75.12043597	43.07466415	w3-15
-75.12054438	43.0746021	w3-16
-75.12062608	43.07447064	w3-17
-75.12069762	43.07437623	w3-18
-75.12082106	43.0742423	w3-19
-75.12097594	43.07411821	w3-20
-75.12109453	43.0740379	w3-21
-75.12115839	43.07389316	w3-22
-75.12128243	43.07379535	w3-23
-75.12141886	43.07362805	w3-24
-75.12154927	43.07352269	w3-25
-75.12168622	43.07340275	w3-26
-75.12177514	43.07327684	w3-27
-75.12196564	43.07316298	w3-28
-75.12208989	43.07292817	w3-29
-75.12227496	43.0728168	w3-30
-75.12238608	43.07265652	w3-31
-75.12251916	43.07249603	w3-32
-75.12266249	43.07238012	w3-33

TWT Mohawk Site

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-75.12278344	43.07224035	w3-34
-75.12296198	43.07211959	w3-35
-75.12298193	43.07203726	w3-36
-75.12289666	43.07194607	w3-37
-75.12261731	43.07180133	w3-38
-75.12261781	43.07172234	w3-39 + east
-75.12336732	43.07209856	w3-40+West
-75.12324059	43.07211399	w3-41
-75.12309896	43.07213498	w3-up-2
-75.12306248	43.07207648	w3-42
-75.12294376	43.07216505	w3-wet-2
-75.12294335	43.07217554	w3-43
-75.12282118	43.07234371	w3-44
-75.1226927	43.07250125	w3-45
-75.12257957	43.07260068	w3-46
-75.12241849	43.0727736	w3-47
-75.12233395	43.07289699	w3-48
-75.1222328	43.07301514	w3-49
-75.12207537	43.07317287	w3-50
-75.1219643	43.07333355	w3-51
-75.12176683	43.07349625	w3-52
-75.12164037	43.07364041	w3-53
-75.12153744	43.07379389	w3-54
-75.12137417	43.07393043	w3-55
-75.12125549	43.07407275	w3-56
-75.12113324	43.0741756	w3-57
-75.12100299	43.07434156	w3-58
-75.12088823	43.07447984	w3-59
-75.12077619	43.07459272	w3-60
-75.12067944	43.0746654	w3-61
-75.12058019	43.07478801	w3-62
-75.1206813	43.07487028	w3-63
-75.12076258	43.07484962	w3-64
-75.12091238	43.07493271	w3-65
-75.12105225	43.07485979	w3-66
-75.12105937	43.07474514	w3-67
-75.12105104	43.07466924	w3-68
-75.12113757	43.07454899	w3-69
-75.12119481	43.07439737	w3-70
-75.12125747	43.07428988	w3-71
-75.12140612	43.07425844	w3-72
-75.12139958	43.07422935	w3-up-3
-75.12143114	43.07427307	w3-wet-3
-75.12155767	43.07417676	w3-73
-75.12167331	43.07410366	w3-74
-75.12180812	43.07410404	w3-75
-75.12198481	43.07409597	w3-76

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-75.12194275	43.07415447	w3-77
-75.12182168	43.07421502	w3-78
-75.12182889	43.0743227	w3-79
-75.12167224	43.07440194	w3-80
-75.12171507	43.07445962	w3-81
-75.12180481	43.07442077	w3-82
-75.12188469	43.07445583	w3-83
-75.12190545	43.07455292	w3-84
-75.12189338	43.07463338	w3-85
-75.12170011	43.0746228	w3-86
-75.12158246	43.07470686	w3-87
-75.12151592	43.07472082	w3-88
-75.12137238	43.07475399	w3-89
-75.12144706	43.07462278	w3-90
-75.12143739	43.07453861	w3-91
-75.12131255	43.0745684	w3-92
-75.12127165	43.07465546	w3-93
-75.12125584	43.07473806	w3-94
-75.12117181	43.07483887	w3-95
-75.12120567	43.07490622	w3-96
-75.12110348	43.07497932	w3-97
-75.12098529	43.07503332	w3-98
-75.12080704	43.07498848	w3-99
-75.12066585	43.07496386	w3-100
-75.12049875	43.07485667	w3-101
-75.12038119	43.07497361	w3-102
-75.12028249	43.07504928	w3-103
-75.12017066	43.07516054	w3-104
-75.12010982	43.07523479	w3-105 end to w3-1
-75.12249642	43.07171084	w4-1 start
-75.12238797	43.0716498	w4-2
-75.12228126	43.07168584	w4-3
-75.12224974	43.07181141	w4-4
-75.12218186	43.07193275	w4-5
-75.12195709	43.07209034	w4-6
-75.12185099	43.07221875	w4-6
-75.12171305	43.07236338	w4-7
-75.12166107	43.07250734	w4-8
-75.12162684	43.07260328	w4-9
-75.12154403	43.072635	w4-10
-75.12146041	43.07265024	w4-11
-75.12130063	43.07262606	w4-12
-75.12117994	43.072594	w4-13
-75.12107967	43.07259007	w4-14
-75.12097755	43.07263732	w4-15
-75.12083561	43.07265476	w4-16
-75.12068558	43.07271204	w4-17

TWT Mohawk Site

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-75.12052329	43.07272721	w4-18
-75.12030925	43.07273206	w4-19
-75.12010661	43.07277377	W4-20
-75.1198673	43.07279105	w4-21
-75.11966124	43.0727823	w4-22
-75.11947112	43.07280794	w4-23
-75.11939714	43.07279818	w4-24
-75.11922223	43.07274469	w4-25
-75.11922613	43.07270419	w4-26
-75.11909496	43.07276796	w4-27
-75.11895718	43.07283383	w4-28
-75.11902081	43.07292064	w4-29
-75.11909875	43.07301946	w4-30
-75.11924326	43.0731313	w4-31
-75.11933035	43.07319679	w4-32
-75.11940084	43.07331699	w4-33
-75.11945186	43.07337021	W4-34
-75.11945615	43.07354351	w4-35
-75.11946788	43.07367105	w4-36
-75.11941978	43.07370812	w4-37
-75.1196525	43.07388712	w4-38
-75.11950309	43.07378578	w4-39
-75.11943554	43.07378563	w4-40
-75.11937602	43.073933	w4-41
-75.11925796	43.07403969	w4-42
-75.11916867	43.07415228	W4-43
-75.1190307	43.0741663	w4-44
-75.11885632	43.07427866	w4-45
-75.11868883	43.07429976	w4-46
-75.11852465	43.0743611	w4-47
-75.11836244	43.07447003	w4-48
-75.11819927	43.07458441	w4-49
-75.118071	43.07467643	w4-50
-75.11785102	43.07454273	W4-51+ne
-75.11799251	43.07449466	W4-52
-75.11796643	43.07452795	OHWM
-75.11811313	43.07459569	OHWM
-75.11817062	43.07445091	W4-53
-75.11835546	43.07433291	W4-54
-75.11853015	43.0743019	OHWM
-75.11850624	43.07427652	W4-55
-75.11872606	43.0741861	W4-56
-75.11885294	43.07416725	OHWM
-75.11885818	43.07415843	W4-57
-75.1189288	43.07422583	OHWM
-75.11905312	43.07407598	W4-58
-75.11915619	43.07396441	W4-59

TWT Mohawk Site

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-75.11925534	43.07386165	W4-60
-75.11928546	43.07384914	OHWM
-75.11927566	43.07370569	W4-61
-75.11924187	43.07359049	W4-62
-75.1192212	43.07342145	W4-63
-75.11919832	43.07328309	W4-64
-75.11913747	43.07320839	W4-65
-75.11897308	43.07312787	W4-66
-75.11888799	43.07308168	W4-67
-75.11882779	43.07297143	W4-68
-75.11876584	43.07282776	W4-69
-75.11877254	43.07271742	W4-70
-75.11879267	43.07264491	W4-71
-75.11894752	43.07255699	W4-72
-75.11900628	43.07252714	OHWM
-75.11904398	43.07265526	OHWM
-75.11906422	43.07250676	W4-73
-75.11924976	43.07246131	W4-74
-75.11938277	43.07245908	W4-75
-75.11953517	43.07249212	W4-76
-75.11965157	43.07257916	W4-77
-75.1198108	43.07269825	OHWM
-75.11974	43.072662	W4-78
-75.11985623	43.07266286	W4-79
-75.12008117	43.0726678	W4-80
-75.12029202	43.07265302	W4-81
-75.12048344	43.07263075	W4-82
-75.12074036	43.07257748	W4-83
-75.1209173	43.07251185	W4-84
-75.12108547	43.07244962	W4-85
-75.12096917	43.07234705	W4-Wet-1
-75.12089752	43.07240173	W4-Up-1
-75.1209188	43.07234204	W4-86
-75.12087567	43.07225187	W4-87
-75.12095775	43.07217529	W4-88
-75.12098886	43.07219148	W4-89
-75.12096107	43.07205172	W4-90
-75.12094063	43.07204896	W4-91
-75.12071947	43.07208619	W4-92
-75.12073962	43.07216839	W4-93
-75.12050632	43.0720838	W4-94
-75.12042366	43.07202761	W4-95
-75.1203999	43.07192801	W4-96
-75.12039595	43.07183409	W4-97
-75.12030526	43.07171571	W4-98
-75.12017164	43.07155927	W4-99
-75.12004485	43.07139117	W4-100

TWT Mohawk Site

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-75.12017965	43.071356	W4-101
-75.1203122	43.07125668	W4-102
-75.12042943	43.07115644	W4-103
-75.12049933	43.0710598	W4-104
-75.12036434	43.07096414	VP1-1
-75.12031462	43.07089323	VP1-2
-75.12027551	43.07086265	VP1-3
-75.12022441	43.07088375	VP1-4
-75.12030308	43.07092597	VP1-5
-75.12061041	43.07099828	W4-105
-75.12071029	43.07095863	W4-106
-75.12067763	43.07087386	W4-107
-75.12065619	43.07077201	W4-108
-75.12067182	43.07058924	W4-109
-75.12071987	43.070487	W4-110
-75.1206943	43.0704055	W4-111
-75.12067257	43.0703271	W4-112
-75.12054358	43.07024725	W4-113 +SE
-75.12071969	43.07032537	W4-114+S
-75.12079859	43.07049562	W4-115
-75.12072438	43.07063561	W4-116
-75.12075786	43.07078023	W4-117
-75.12084442	43.07094233	W4-118
-75.12089495	43.07104379	W4-119
-75.12097967	43.07104769	W4-120
-75.12105619	43.07117464	W4-121
-75.12112018	43.07126607	W4-122
-75.12120184	43.07133684	W4-123
-75.12133402	43.07125971	W4-124
-75.12141459	43.07117273	W4-125
-75.1213412	43.07104715	W4-126
-75.12125065	43.07100535	W4-127
-75.12114041	43.07097314	W4-128
-75.12118669	43.07081261	W4-129
-75.12117305	43.07073274	W4-130
-75.1210844	43.07063692	W4-131
-75.12101301	43.07054604	W4-132
-75.12088688	43.07042401	W4-133 to W4-114
-75.12006776	43.06990538	W5-1 3'wide CL
-75.12000975	43.06998869	W5-2 3'wide CL
-75.11986001	43.07003931	W5-3 5'wide CL
-75.11970698	43.07011828	W5-4 5'wide CL
-75.11958952	43.07015788	W5-5 5'wide CL
-75.11953061	43.07019185	W5-Wet-1
-75.11956864	43.07026655	W5-Up-1
-75.11937922	43.07027344	W5-6 6'w CL
-75.11929581	43.07034001	W5-7 6'w CL

TWT Mohawk Site

DIEHLUX Wetland Delineation GPS Coordinates - 10/10/19-10/11/19, 10/21/2019 & 11/4/2019

-75.11911176	43.07043982	W5-8 6'w CL
-75.11897349	43.07050039	W5-9 6'w CL
-75.11874385	43.07064826	W5-10 6'w CL
-75.11857432	43.07069808	W5-11 6'w CL
-75.11831393	43.07084268	W5-12 6'w CL
-75.11814818	43.07090231	W5-13 6'w CL
-75.11793002	43.0710367	W5-14 6'w CL
-75.11775408	43.07113959	W5-15 end
-75.12209519	43.07162088	W4-134
-75.1219906	43.07159887	W4-135
-75.12186298	43.07154362	W4-136
-75.12170029	43.07150414	W4-137
-75.12150429	43.07155305	W4-138
-75.12133662	43.07161469	W4-139
-75.12114977	43.07161579	W4-140
-75.12099725	43.07166026	W4-141
-75.12092632	43.0715736	W4-142
-75.12083509	43.07159031	W4-143
-75.12080566	43.07151239	W4-144
-75.12065152	43.07147597	W4-145
-75.12045575	43.0714117	W4-146
-75.12043824	43.0715495	W4-147
-75.12051943	43.07171483	W4-148
-75.12062455	43.07182718	W4-149
-75.12073199	43.07194438	W4-150
-75.12081199	43.0720148	W4-151
-75.12098695	43.07202543	W4-152
-75.12104179	43.07207894	W4-153
-75.12103692	43.07217996	W4-154
-75.12099266	43.07228348	W4-155
-75.1210983	43.07238323	W4-156
-75.12118964	43.07242	W4-157
-75.12134298	43.07235568	W4-158
-75.12133603	43.07219446	W4-159
-75.12138244	43.07216198	W4-160
-75.12139753	43.07233878	W4-161
-75.12159525	43.0722524	W4-162
-75.12179715	43.07216201	W4-163
-75.12188425	43.07203547	W4-164
-75.12199268	43.0719427	W4-165
-75.12208301	43.07182567	W4-166
-75.12214563	43.07167742	W4-167 to- W4-134
-75.12068433	43.07556458	W6-1 start
-75.1206361	43.07552446	W6-2
-75.12062294	43.07554902	W6-Wet-1
-75.12060865	43.07549587	W6-Up-1
-75.12054809	43.07556041	W6-3

TWT Mohawk Site

DIEHLUX Wetland Delineation GPS Coordinates - 10/10/19-10/11/19, 10/21/2019 & 11/4/2019

-75.12056521	43.07561524	W6-4
-75.12061728	43.07563179	W6-Send to W6-1
-75.11547964	43.0730174	Upland grass\wheat
-75.11088815	43.06833977	W7-1 start
-75.11077537	43.0682353	W7-2
-75.11051924	43.06810001	W7-3
-75.11040522	43.06801287	W7-4
-75.1103389	43.06796166	W7-Wet-1
-75.11028259	43.06806491	W7-Up-1
-75.11017895	43.0679739	W7-5
-75.10998156	43.06791956	W7-6
-75.10977631	43.06782445	W7-7
-75.10957142	43.0677199	W7-8
-75.10921411	43.06755216	W7-9
-75.1090178	43.0674154	W7-10
-75.10880746	43.06747082	W7-11end +east
-75.11054331	43.06662199	Edge of River
-75.11073168	43.0667147	W7-12start +SE
-75.11078576	43.06677664	W7-13
-75.11077464	43.06693727	W7-14
-75.11073867	43.06700485	W7-15
-75.1106953	43.06708435	W7-16 (C-5)
-75.1107576	43.06715048	W7-17
-75.11080082	43.06728372	W7-18
-75.11066235	43.06732018	W7-19
-75.11049308	43.06730673	W7-20
-75.11026568	43.06730694	W7-21
-75.11014372	43.06738843	W7-22
-75.11007027	43.06749735	W7-23
-75.11009375	43.06762348	W7-24
-75.1098908	43.06772181	W7-25
-75.1097453	43.06762372	W7-26
-75.10971973	43.06756277	W7-27
-75.10961488	43.06740783	W7-28
-75.10949984	43.06726955	W7-29 end +east
-75.11100712	43.0682994	W7-30
-75.11091696	43.06825196	W7-31
-75.11086757	43.06815729	W7-32
-75.11087902	43.06801849	W7-33
-75.11089525	43.06795918	W7-34
-75.11086653	43.06786361	W7-35
-75.11087089	43.06778336	W7-36
-75.11081556	43.06771285	W7-37
-75.11073923	43.06761928	W7-38
-75.11077732	43.06751668	W7-39
-75.11097472	43.06746827	W7-40
-75.111031	43.06742403	W7-41

TWT Mohawk Site

DIEHLUX Wetland Delineation GPS Coordinates - 10/10/19-10/11/19, 10/21/2019 & 11/4/2019

-75.11114614	43.06733196	W7-42
-75.1109336	43.06733006	W7-43
-75.11070944	43.06740521	W7-44
-75.11056931	43.06743831	W7-45
-75.11033454	43.06745504	W7-46
-75.1102092	43.06746234	W7-47
-75.1102691	43.06737577	W7-48
-75.11053483	43.06738393	W7-Up-2
-75.11060008	43.06728856	W7-Wet-2
-75.1104832	43.06735263	W7-49
-75.11065021	43.06735371	W7-50
-75.11080331	43.0673454	W7-51
-75.11081641	43.06726454	W7-52
-75.11086691	43.06722922	W7-53
-75.11074419	43.06707222	W7-54
-75.11080523	43.06695421	W7-55
-75.1108469	43.06685156	W7-56
-75.11088082	43.06678709	W7-57
-75.11105162	43.06675703	W7-58
-75.11119399	43.06685077	W7-59
-75.11126393	43.06681964	W7-60end +S/SW
-75.11278379	43.0671097	Top of Bank mohawk
-75.11376763	43.06736409	Top of bank Mohawk
-75.11405577	43.06743262	W7-61x start at river
-75.11398327	43.06744123	W7-61
-75.11399494	43.06756972	W7-62x
-75.11390556	43.06755504	W7-62
-75.1138419	43.06765058	W7-63x
-75.11377441	43.06762923	W7-63
-75.11362668	43.06772826	W7-64
-75.11368914	43.06780138	W7-64x
-75.11353114	43.06787628	W7-65x
-75.11355304	43.06794971	W7-Up-3
-75.11349215	43.06788293	W7-Wet-3
-75.1135039	43.06781587	W7-65
-75.11330732	43.06797552	W7-66
-75.11332764	43.06802217	W7-66x
-75.11323151	43.06807767	W7-67x
-75.11320032	43.06805627	W7-67
-75.11311877	43.06811085	W7-68
-75.1131477	43.06814764	W7-68x
-75.11299805	43.06820309	W7-69
-75.1130303	43.06825598	W7-69x
-75.11312685	43.06821392	W7-70x
-75.11329365	43.06822942	W7-71x
-75.11333847	43.06833171	W7-Wet-4
-75.1134454	43.06826601	W7-72x

TWT Mohawk Site

DIEHLUX Wetland Delineation GPS Coordinates - 10/10/19-10/11/19, 10/21/2019 & 11/4/2019

-75.11344981	43.06822998	W7-Up-4
-75.11349156	43.06837074	W7-73x
-75.11350342	43.06843441	W7-74x
-75.11348213	43.06849297	W7-75x
-75.11343142	43.06856628	W7-76x
-75.11326065	43.068469	W7-77x
-75.11317927	43.06842342	W7-78x
-75.11308493	43.06837044	W7-79x
-75.112984	43.06834045	W7-80x
-75.1129028	43.06810617	W7-70
-75.11293518	43.06803594	W7-71
-75.11287443	43.06792691	W7-72
-75.11286696	43.06783214	W7-73
-75.11275221	43.06788857	W7-74
-75.1126456	43.06794651	W7-75
-75.11281289	43.06792428	W7-76
-75.11280351	43.06800555	W7-77
-75.11270696	43.06806179	W7-78
-75.11258015	43.06805102	W7-79
-75.11243228	43.06803456	W7-80
-75.11243676	43.06811802	W7-81
-75.11259329	43.06817589	W7-82
-75.11269771	43.06824569	W7-83
-75.11282536	43.06826199	W7-84
-75.1129726	43.06826259	W7-81x
-75.11288291	43.0682973	W7-85
-75.11268338	43.06841981	W7-86
-75.11273272	43.06844663	W7-82x
-75.11253046	43.06853749	W7-87
-75.11255905	43.06855821	W7-83x
-75.11235691	43.06863459	W7-88
-75.11240008	43.06868129	W7-84x
-75.11218104	43.06878119	W7-89
-75.11221062	43.06880064	W7-85x
-75.11197082	43.06892767	W7-90
-75.11201314	43.06893179	W7-86x
-75.1118919	43.06899436	W7-87x
-75.11186346	43.06897613	W7-91
-75.11179669	43.06902282	W7-92
-75.11170493	43.06894883	W7-93
-75.11161211	43.0688682	W7-94
-75.11148555	43.06876003	W7-95
-75.11132725	43.06859588	W7-96
-75.11119254	43.06849325	W7-97
-75.1110943	43.06841366	W7-98 to W7-30
-75.1110854	43.06841656	W7-99 to W7-1
-75.11120085	43.06854606	W7-100

TWT Mohawk Site

DIEHLUX Wetland Delineation GPS Coordinates - 10/10/19-10/11/19, 10/21/2019 & 11/4/2019

-75.11134127	43.06865682	W7-101
-75.11148564	43.06878219	W7-102
-75.11160549	43.06891059	W7-103
-75.11176049	43.06901317	W7-104
-75.11178698	43.06909233	W7-105
-75.11191091	43.06918053	W7-106
-75.11200615	43.06929675	W7-107
-75.11214649	43.06938869	W7-108
-75.11224279	43.06947754	W7-109
-75.11230128	43.06956254	W7-110
-75.11244443	43.06967188	W7-111
-75.11260223	43.06982077	W7-112
-75.11272927	43.06997294	W7-113
-75.1128334	43.07005329	W7-114
-75.11280702	43.07003322	W7-115
-75.11274263	43.0699505	W7-116
-75.11268767	43.06988233	W7-117
-75.11262844	43.06981389	W7-118
-75.11251491	43.06970571	W7-119
-75.11248127	43.06964968	W7-120
-75.11233289	43.06953598	W7-121
-75.11225021	43.06944913	W7-122
-75.1120973	43.06932709	W7-123
-75.11196901	43.06920446	W7-124
-75.11182705	43.06908203	W7-125 to W7-87x
-75.11506015	43.07029183	W8-1 start 4'wide CL
-75.11509692	43.07029163	W8-2 4'wide CL
-75.11523044	43.07020435	W8-3
-75.11535577	43.0701398	W8-4 6'wide CL
-75.11545932	43.07008854	W8-5 6'wide CL
-75.11562069	43.06997092	W8-6 6'wide CL
-75.11579194	43.06989143	W8-7 6'wide CL
-75.11595727	43.0697723	W8-8 6'wide CL
-75.11613928	43.06967894	W8-9 6'wide CL
-75.11630324	43.06958246	W8-10 6'wide CL end
-75.11688841	43.06921713	W8-11 start 6'wide CL
-75.1169588	43.06917108	W8-12
-75.11701441	43.06919744	W8-12x
-75.11711404	43.06909378	W8-13x
-75.11713635	43.06906624	W8-13
-75.11724362	43.06900107	W8-14
-75.11727843	43.06902539	W8-14x
-75.11739278	43.06896131	W8-15x
-75.11735983	43.06892169	W8-15
-75.11745122	43.06892662	W8-Wet-1
-75.11746228	43.06887859	W8-16
-75.1174338	43.0688537	W8-Up-1

TWT Mohawk Site

DIEHLUX Wetland Delineation GPS Coordinates - 10/10/19-10/11/19, 10/21/2019 & 11/4/2019

-75.11753275	43.06889104	W8-16x	
-75.1176277	43.06876022	W8-17 end	
-75.11766769	43.06880862	W8-17x end	
-75.12218138	43.07434013	W9-1	
-75.12218904	43.07439196	W9-2	
-75.12213327	43.07450179	W9-3	
-75.12204264	43.07458332	W9-4	
-75.12202888	43.07461627	W9-5	
-75.12211012	43.07458462	W9-6	
-75.12217157	43.07449107	W9-7	
-75.12228804	43.07436557	W9-8	
-75.1222662	43.07431172	W9-9, end, to W9-1	
-75.12212953	43.07439369	W9-Up-1	
-75.12221708	43.07439585	W9-Wet-1	
-75.12168802	43.07373163	W10-1, to W3-54	Floodplain Boundary
-75.12185945	43.07358607	W10-2	Floodplain Boundary
-75.1219991	43.07371665	W10-3	Floodplain Boundary
-75.12196191	43.07391295	W10-4	Floodplain Boundary
-75.12213978	43.07377243	W10-5	Floodplain Boundary
-75.12232481	43.07371117	W10-6	Floodplain Boundary
-75.12242533	43.07369116	W10-7	Floodplain Boundary
-75.12233086	43.07386724	W10-8	Floodplain Boundary
-75.12221096	43.07389946	W10-9	Floodplain Boundary
-75.12221434	43.0740254	W10-10	Floodplain Boundary
-75.12214848	43.07411837	W10-11	Floodplain Boundary
-75.12221174	43.07420119	W10-12	Floodplain Boundary
-75.12236182	43.07413497	W10-13	Floodplain Boundary
-75.12238723	43.07426741	W10-14	Floodplain Boundary
-75.12244296	43.07439053	W10-15	Floodplain Boundary
-75.12235843	43.0745126	W10-16	Floodplain Boundary
-75.12235794	43.07464803	W10-17	Floodplain Boundary
-75.12227027	43.0748025	W10-18, end	Floodplain Boundary

TWT Mohawk Site

Wetland Delineation Point Coordinates - Interpolated from Delineation Verification Site Visit notes, Drone Photo and LiDAR Contours

Longitude	Latitude	Comment/Flag No.
-75.12349600	43.07273828	W10-1
-75.12353173	43.07272633	W10-2
-75.12356761	43.07279062	W10-3
-75.12355955	43.07282518	W10-4
-75.12349962	43.07291936	W10-5
-75.12329042	43.07312925	W10-6
-75.12307794	43.07332842	W10-7
-75.12305833	43.07327245	W10-8
-75.12313278	43.07312108	W10-9
-75.12332574	43.07291835	W10-10, end, to W10-1
-75.12311859	43.07252664	W11-1
-75.12327270	43.07239901	W11-2
-75.12337681	43.07245370	W11-3
-75.12332505	43.07257288	W11-4
-75.12307376	43.07286382	W11-5
-75.12304767	43.07281382	W11-6
-75.12300840	43.07268282	W11-7, end, to W11-1

APPENDIX V

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Mohawk SA City/County: Herkimer Sampling Date: 10/10/19
 Applicant/Owner: The Wetlands Trust, Inc. State: NY Sampling Point: W1-Wet-1
 Investigator(s): Colin Diehl/Travis Money Section, Township, Range: Schuyler
 Landform (hillside, terrace, etc.): _____ Local relief (concave, convex, none): concave Slope %: 0-3
 Subregion (LRR or MLRA): LRR L Lat: 43.075275 Long: -75.121439 Datum: WGS 84
 Soil Map Unit Name: Palms Muck NWI classification: PEM

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil X, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____ If yes, optional Wetland Site ID: _____
Hydric Soil Present? Yes <u>X</u> No _____	
Wetland Hydrology Present? Yes <u>X</u> No _____	
Remarks: (Explain alternative procedures here or in a separate report.)	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> <input checked="" type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input checked="" type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<u>Secondary Indicators (minimum of two required)</u> <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input checked="" type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input checked="" type="checkbox"/> FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes <u>X</u> No _____ Depth (inches): <u>1</u> Water Table Present? Yes <u>X</u> No _____ Depth (inches): _____ Saturation Present? Yes <u>X</u> No _____ Depth (inches): _____ (includes capillary fringe)		Wetland Hydrology Present? Yes <u>X</u> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks: wetland/sampling point was located within active farm field that had not been planted during growing season of 2019 and had recently been mowed.		

VEGETATION – Use scientific names of plants.

 Sampling Point: W1-Wet-1

Tree Stratum (Plot size: <u>15 by 30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u>Ulmus americana</u>			FACW	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B) Prevalence Index worksheet: <table style="width: 100%;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species _____</td> <td>x 1 = _____</td> </tr> <tr> <td>FACW species _____</td> <td>x 2 = _____</td> </tr> <tr> <td>FAC species _____</td> <td>x 3 = _____</td> </tr> <tr> <td>FACU species _____</td> <td>x 4 = _____</td> </tr> <tr> <td>UPL species _____</td> <td>x 5 = _____</td> </tr> <tr> <td>Column Totals: _____ (A)</td> <td>_____ (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = _____</td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species _____	x 1 = _____	FACW species _____	x 2 = _____	FAC species _____	x 3 = _____	FACU species _____	x 4 = _____	UPL species _____	x 5 = _____	Column Totals: _____ (A)	_____ (B)	Prevalence Index = B/A = _____	
Total % Cover of:	Multiply by:																			
OBL species _____	x 1 = _____																			
FACW species _____	x 2 = _____																			
FAC species _____	x 3 = _____																			
FACU species _____	x 4 = _____																			
UPL species _____	x 5 = _____																			
Column Totals: _____ (A)	_____ (B)																			
Prevalence Index = B/A = _____																				
2. <u>Acer rubrum</u>			FAC																	
3. <u>Fraxinus pennsylvanica</u>			FACW																	
4. _____																				
5. _____																				
6. _____																				
7. _____																				
			=Total Cover																	
Sapling/Shrub Stratum (Plot size: <u>15 by 20'</u>)																				
1. <u>Cornus sericea</u>			FACW	Hydrophytic Vegetation Indicators: <u> </u> 1 - Rapid Test for Hydrophytic Vegetation <u> </u> X 2 - Dominance Test is >50% <u> </u> 3 - Prevalence Index is ≤3.0 ¹ <u> </u> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2. <u>Acer rubrum</u>			FAC																	
3. <u>Fraxinus pennsylvanica</u>			FACW																	
4. <u>Lonicera tatarica</u>			FACU																	
5. _____																				
6. _____																				
7. _____																				
			=Total Cover																	
Herb Stratum (Plot size: <u>10 by 15'</u>)																				
1. <u>Lythrum salicaria</u>	15	No	OBL	Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes <u> X </u> No <u> </u>																
2. <u>Phalaris arundinacea</u>			FACW																	
3. <u>Polygonum sagittatum</u>			OBL																	
4. <u>Onoclea sensibilis</u>			FACW																	
5. <u>Typha angustifolia</u>	45	Yes	OBL																	
6. <u>Impatiens capensis</u>	5	No	FACW																	
7. <u>Carex stricta</u>	5	No	FACW																	
8. <u>Scirpus spp.</u>			FACW																	
9. <u>Sphagnum spp.</u>			FACW																	
10. <u>Bidens spp.</u>			FACW																	
11. <u>Eupatorium perfoliatum</u>	5	No	FACW																	
12. <u>Juncus effusus</u>	5	No	OBL																	
			80 =Total Cover																	
Woody Vine Stratum (Plot size: _____)																				
1. _____																				
2. _____																				
3. _____																				
4. _____																				
			=Total Cover																	

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point W1-Wet-1

[illegible]

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Mohawk SA City/County: Herkimer Sampling Date: 10/10/19
 Applicant/Owner: The Wetlands Trust, Inc. State: NY Sampling Point: W1-Up-1
 Investigator(s): Colin Diehl/Travis Money Section, Township, Range: Schuyler
 Landform (hillside, terrace, etc.): none Local relief (concave, convex, none): concave Slope %: 0-5%
 Subregion (LRR or MLRA): LRR L Lat: 43.075273 Long: -75.121195 Datum: WGS 84
 Soil Map Unit Name: Palms muck (Pk) NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil X, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u> If yes, optional Wetland Site ID: _____
Hydric Soil Present? Yes _____ No <u>X</u>	
Wetland Hydrology Present? Yes _____ No <u>X</u>	
Remarks: (Explain alternative procedures here or in a separate report.)	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> _____ Surface Water (A1) _____ Water-Stained Leaves (B9) _____ High Water Table (A2) _____ Aquatic Fauna (B13) _____ Saturation (A3) _____ Marl Deposits (B15) _____ Water Marks (B1) _____ Hydrogen Sulfide Odor (C1) _____ Sediment Deposits (B2) _____ Oxidized Rhizospheres on Living Roots (C3) _____ Drift Deposits (B3) _____ Presence of Reduced Iron (C4) _____ Algal Mat or Crust (B4) _____ Recent Iron Reduction in Tilled Soils (C6) _____ Iron Deposits (B5) _____ Thin Muck Surface (C7) _____ Inundation Visible on Aerial Imagery (B7) _____ Other (Explain in Remarks) _____ Sparsely Vegetated Concave Surface (B8)		<u>Secondary Indicators (minimum of two required)</u> _____ Surface Soil Cracks (B6) _____ Drainage Patterns (B10) _____ Moss Trim Lines (B16) _____ Dry-Season Water Table (C2) _____ Crayfish Burrows (C8) _____ Saturation Visible on Aerial Imagery (C9) _____ Stunted or Stressed Plants (D1) _____ Geomorphic Position (D2) _____ Shallow Aquitard (D3) _____ Microtopographic Relief (D4) _____ FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present? Yes _____ No <u>X</u> Depth (inches): _____ Saturation Present? Yes _____ No <u>X</u> Depth (inches): _____ (includes capillary fringe)		Wetland Hydrology Present? Yes _____ No <u>X</u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks: sampling point was located within active farm field that had not been planted during growing season of 2019 and had recently been mowed.		

Sampling Point: W1-Up-1

Tree Stratum (Plot size: 15 by 30')		Absolute % Cover	Dominant Species?	Indicator Status
1.	<i>Prunus serotina</i>			FACU
2.	<i>Pinus strobus</i>			FACU
3.	<i>Thuja occidentalis</i>			FACU
4.	<i>Acer rubrum</i>			FAC
5.	<i>Fraxinus americana</i>			FACU
6.	<i>Acer saccharum</i>			FACU
7.	<i>Fagus grandifolia</i>			FACU
			=Total Cover	
Sapling/Shrub Stratum (Plot size: 15 by 20')				
1.	<i>Rhamnus frangula</i>			FAC
2.	<i>Lonicera tatarica</i>			FACU
3.	<i>Fraxinus americana</i>			FACU
4.	<i>Prunus serotina</i>			FACU
5.	<i>Acer saccharum</i>			FACU
6.	<i>Lindera benzoin</i>			FACW
7.	<i>Rosa multiflora</i>			FACU
			=Total Cover	
Herb Stratum (Plot size: 10 by 15')				
1.	<i>Rubus lawrencei</i>			FAC
2.	<i>Toxicodendron radicans</i>			UPL
3.	<i>Pteridium aquilinum</i>			FACU
4.	<i>Cornus canadensis</i>			FACU
5.	<i>Rubus allegheniensis</i>			FACU
6.	<i>Solidago canadensis</i>	10	No	FACU
7.	<i>Artemisia vulgaris</i>	65	Yes	UPL
8.	<i>Trifolium repens</i>	10	No	FACU
9.	<i>Dactylis glomerata</i>			FACU
10.	<i>Parthenocissus quinquefolia</i>			FACU
11.	<i>Asclepias syriaca</i>			FACU
12.	<i>Daucus carota</i>			UPL
		85	=Total Cover	
Woody Vine Stratum (Plot size:)				
1.				
2.				
3.				
4.				
			=Total Cover	

Remarks: (Include photo numbers here or on a separate sheet.)

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species 0	x 1 = 0
FACW species 0	x 2 = 0
FAC species 0	x 3 = 0
FACU species 20	x 4 = 80
UPL species 65	x 5 = 325
Column Totals: 85 (A)	405 (B)
Prevalence Index = B/A = 4.76	

Hydrophytic Vegetation Indicators:

1 - Rapid Test for Hydrophytic Vegetation

2 - Dominance Test is >50%

3 - Prevalence Index is $\leq 3.0^1$

4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes No X

SOIL

Sampling Point W1-Up-1

[illegible]

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Mohawk SA City/County: Herkimer Sampling Date: 10/10/19
 Applicant/Owner: The Wetlands Trust, Inc. State: NY Sampling Point: W1-Wet-2
 Investigator(s): Colin Diehl/Travis Money Section, Township, Range: Schuyler
 Landform (hillside, terrace, etc.): _____ Local relief (concave, convex, none): none Slope %: 0-3
 Subregion (LRR or MLRA): LRR L Lat: 43.0758091 Long: -75.1218471 Datum: WGS 84
 Soil Map Unit Name: Palms Muck NWI classification: PFO

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____ If yes, optional Wetland Site ID: _____
Hydric Soil Present?	Yes <u>X</u> No _____	
Wetland Hydrology Present?	Yes <u>X</u> No _____	
Remarks: (Explain alternative procedures here or in a separate report.) 		

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> _____ Surface Water (A1) <u>X</u> Water-Stained Leaves (B9) _____ High Water Table (A2) _____ Aquatic Fauna (B13) <u>X</u> Saturation (A3) _____ Marl Deposits (B15) _____ Water Marks (B1) _____ Hydrogen Sulfide Odor (C1) _____ Sediment Deposits (B2) _____ Oxidized Rhizospheres on Living Roots (C3) _____ Drift Deposits (B3) _____ Presence of Reduced Iron (C4) _____ Algal Mat or Crust (B4) _____ Recent Iron Reduction in Tilled Soils (C6) _____ Iron Deposits (B5) _____ Thin Muck Surface (C7) _____ Inundation Visible on Aerial Imagery (B7) _____ Other (Explain in Remarks) _____ Sparsely Vegetated Concave Surface (B8)		<u>Secondary Indicators (minimum of two required)</u> _____ Surface Soil Cracks (B6) _____ Drainage Patterns (B10) _____ Moss Trim Lines (B16) _____ Dry-Season Water Table (C2) _____ Crayfish Burrows (C8) _____ Saturation Visible on Aerial Imagery (C9) _____ Stunted or Stressed Plants (D1) <u>X</u> Geomorphic Position (D2) _____ Shallow Aquitard (D3) _____ Microtopographic Relief (D4) <u>X</u> FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes _____ No _____ Depth (inches): _____ Water Table Present? Yes _____ No _____ Depth (inches): _____ Saturation Present? Yes <u>X</u> No _____ Depth (inches): <u>6</u> (includes capillary fringe)		Wetland Hydrology Present? Yes <u>X</u> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: 		
Remarks: near upland inclusion of wetland W1 at northwest corner of Site, south of rail line		

VEGETATION – Use scientific names of plants.

Sampling Point: W1-Wet-2

Tree Stratum (Plot size: <u>15 by 30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u>Ulmus americana</u>			FACW	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>6</u> (A) Total Number of Dominant Species Across All Strata: <u>6</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B) Prevalence Index worksheet: <table style="width: 100%;"> <tr> <td>Total % Cover of:</td> <td>Multiply by:</td> </tr> <tr> <td>OBL species _____</td> <td>x 1 = _____</td> </tr> <tr> <td>FACW species _____</td> <td>x 2 = _____</td> </tr> <tr> <td>FAC species _____</td> <td>x 3 = _____</td> </tr> <tr> <td>FACU species _____</td> <td>x 4 = _____</td> </tr> <tr> <td>UPL species _____</td> <td>x 5 = _____</td> </tr> <tr> <td>Column Totals: _____</td> <td>(A) _____ (B) _____</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = _____</td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species _____	x 1 = _____	FACW species _____	x 2 = _____	FAC species _____	x 3 = _____	FACU species _____	x 4 = _____	UPL species _____	x 5 = _____	Column Totals: _____	(A) _____ (B) _____	Prevalence Index = B/A = _____	
Total % Cover of:	Multiply by:																			
OBL species _____	x 1 = _____																			
FACW species _____	x 2 = _____																			
FAC species _____	x 3 = _____																			
FACU species _____	x 4 = _____																			
UPL species _____	x 5 = _____																			
Column Totals: _____	(A) _____ (B) _____																			
Prevalence Index = B/A = _____																				
2. <u>Acer rubrum</u>			FAC																	
3. <u>Fraxinus pennsylvanica</u>			FACW																	
4. <u>Salix alba</u>	35	Yes	FACW																	
5. <u>Acer negundo</u>	25	Yes	FAC																	
6. _____																				
7. _____																				
	60	=Total Cover		Hydrophytic Vegetation Indicators: <u> </u> 1 - Rapid Test for Hydrophytic Vegetation <u> X </u> 2 - Dominance Test is >50% <u> </u> 3 - Prevalence Index is ≤3.0 ¹ <u> </u> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
Sapling/Shrub Stratum (Plot size: <u>15 by 20'</u>)																				
1. <u>Cornus sericea</u>			FACW																	
2. <u>Acer rubrum</u>			FAC																	
3. <u>Fraxinus pennsylvanica</u>	15	Yes	FACW																	
4. <u>Lonicera tatarica</u>			FACU																	
5. _____																				
6. _____																				
7. _____																				
	15	=Total Cover																		
Herb Stratum (Plot size: <u>10 by 15'</u>)				Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes <u> X </u> No _____																
1. <u>Lythrum salicaria</u>			OBL																	
2. <u>Phalaris arundinacea</u>			FACW																	
3. <u>Polygonum sagittatum</u>			OBL																	
4. <u>Onoclea sensibilis</u>			FACW																	
5. <u>Typha angustifolia</u>			OBL																	
6. <u>Impatiens capensis</u>	25	Yes	FACW																	
7. <u>Carex stricta</u>			FACW																	
8. <u>Geranium bicknellii</u>	10	Yes	FACW																	
9. <u>Lysichiton americanus</u>	10	Yes	FACW																	
10. <u>Bidens spp.</u>			FACW																	
11. <u>Eupatorium perfoliatum</u>			FACW																	
12. <u>Juncus effusus</u>			OBL																	
	45	=Total Cover																		
Woody Vine Stratum (Plot size: _____)																				
1. _____																				
2. _____																				
3. _____																				
4. _____																				
		=Total Cover																		

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point W1-Wet-2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-4	10YR 4/2	100					Mucky Loam/Clay	silty loam with gravel
4-8	10YR 4/1	85	7.5YR 4/6	15	C	M	Loamy/Clayey	silty clay loam
8-14	7.5YR 3/1	90	10YR 5/6	10	C	M	Loamy/Clayey	clay loam

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

☐ Histosol (A1)
☐ Histic Epipedon (A2)
☐ Black Histic (A3)
☐ Hydrogen Sulfide (A4)
☐ Stratified Layers (A5)
☐ Depleted Below Dark Surface (A11)
☐ Thick Dark Surface (A12)
☐ Sandy Mucky Mineral (S1)
☐ Sandy Gleyed Matrix (S4)
☐ Sandy Redox (S5)
☐ Stripped Matrix (S6)
☐ Dark Surface (S7)

☐ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
☐ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
☐ High Chroma Sands (S11) (**LRR K, L**)
☒ Loamy Mucky Mineral (F1) (**LRR K, L**)
☒ Loamy Gleyed Matrix (F2)
☒ Depleted Matrix (F3)
☐ Redox Dark Surface (F6)
☐ Depleted Dark Surface (F7)
☐ Redox Depressions (F8)
☐ Marl (F10) (**LRR K, L**)

Indicators for Problematic Hydric Soils³:

☐ 2 cm Muck (A10) (**LRR K, L, MLRA 149B**)
☐ Coast Prairie Redox (A16) (**LRR K, L, R**)
☐ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
☐ Polyvalue Below Surface (S8) (**LRR K, L**)
☐ Thin Dark Surface (S9) (**LRR K, L**)
☐ Iron-Manganese Masses (F12) (**LRR K, L, R**)
☐ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
☐ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
☐ Red Parent Material (F21)
☐ Very Shallow Dark Surface (F22)
☐ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____
Depth (inches): _____

Hydric Soil Present?

Yes ☒ No _____

Remarks:
This data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydric Soils, Version 7.0, 2015 Errata. (http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_051293.docx)

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Mohawk SA City/County: Herkimer Sampling Date: 10/10/19
 Applicant/Owner: The Wetlands Trust, Inc. State: NY Sampling Point: W1-Up-2
 Investigator(s): Colin Diehl/Travis Money Section, Township, Range: Schuyler
 Landform (hillside, terrace, etc.): hillside Local relief (concave, convex, none): convex Slope %: 0-3
 Subregion (LRR or MLRA): LRR L Lat: 43.0758523 Long: -75.1211791 Datum: WGS 84
 Soil Map Unit Name: Palms muck (Pk) NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u> If yes, optional Wetland Site ID: _____
Hydric Soil Present? Yes _____ No <u>X</u>	
Wetland Hydrology Present? Yes _____ No <u>X</u>	
Remarks: (Explain alternative procedures here or in a separate report.)	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> _____ Surface Water (A1) _____ Water-Stained Leaves (B9) _____ High Water Table (A2) _____ Aquatic Fauna (B13) _____ Saturation (A3) _____ Marl Deposits (B15) _____ Water Marks (B1) _____ Hydrogen Sulfide Odor (C1) _____ Sediment Deposits (B2) _____ Oxidized Rhizospheres on Living Roots (C3) _____ Drift Deposits (B3) _____ Presence of Reduced Iron (C4) _____ Algal Mat or Crust (B4) _____ Recent Iron Reduction in Tilled Soils (C6) _____ Iron Deposits (B5) _____ Thin Muck Surface (C7) _____ Inundation Visible on Aerial Imagery (B7) _____ Other (Explain in Remarks) _____ Sparsely Vegetated Concave Surface (B8)		<u>Secondary Indicators (minimum of two required)</u> _____ Surface Soil Cracks (B6) _____ Drainage Patterns (B10) _____ Moss Trim Lines (B16) _____ Dry-Season Water Table (C2) _____ Crayfish Burrows (C8) _____ Saturation Visible on Aerial Imagery (C9) _____ Stunted or Stressed Plants (D1) _____ Geomorphic Position (D2) _____ Shallow Aquitard (D3) _____ Microtopographic Relief (D4) _____ FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present? Yes _____ No <u>X</u> Depth (inches): _____ Saturation Present? Yes _____ No <u>X</u> Depth (inches): _____ (includes capillary fringe)		Wetland Hydrology Present? Yes _____ No <u>X</u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks: upland inclusion of wetland W1 at northwest corner of Site, south of rail line		

Sampling Point: W1-Up-2

Tree Stratum (Plot size: 15 by 30')		Absolute % Cover	Dominant Species?	Indicator Status
1.	<i>Prunus serotina</i>			FACU
2.	<i>Pinus strobus</i>			FACU
3.	<i>Thuja occidentalis</i>			FACU
4.	<i>Acer rubrum</i>			FAC
5.	<i>Fraxinus americana</i>	10	Yes	FACU
6.	<i>Acer saccharum</i>			FACU
7.	<i>Acer negundo</i>	30	Yes	FAC
		40	=Total Cover	
Sapling/Shrub Stratum (Plot size: 15 by 20')				
1.	<i>Rhamnus frangula</i>	10	Yes	FAC
2.	<i>Lonicera tatarica</i>			FACU
3.	<i>Fraxinus americana</i>	15	Yes	FACU
4.	<i>Prunus serotina</i>			FACU
5.	<i>Acer saccharum</i>			FACU
6.	<i>Lindera benzoin</i>			FACW
7.	<i>Rosa multiflora</i>			FACU
		25	=Total Cover	
Herb Stratum (Plot size: 10 by 15')				
1.	<i>Urtica dioica</i>	10	No	FAC
2.	<i>Toxicodendron radicans</i>	20	Yes	UPL
3.	<i>Pteridium aquilinum</i>			FACU
4.	<i>Cornus canadensis</i>			FACU
5.	<i>Rubus allegheniensis</i>	15	Yes	FACU
6.	<i>Solidago canadensis</i>	10	No	FACU
7.	<i>Artemisia vulgaris</i>			UPL
8.	<i>Trifolium repens</i>			FACU
9.	<i>Dactylis glomerata</i>			FACU
10.	<i>Parthenocissus quinquefolia</i>	5	No	FACU
11.	<i>Asclepias syriaca</i>			FACU
12.	<i>Daucus carota</i>			UPL
		60	=Total Cover	
Woody Vine Stratum (Plot size:)				
1.				
2.				
3.				
4.				
			=Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 6 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 33.3% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species 0	x 1 = 0
FACW species 0	x 2 = 0
FAC species 50	x 3 = 150
FACU species 55	x 4 = 220
UPL species 20	x 5 = 100
Column Totals: 125 (A)	470 (B)
Prevalence Index = B/A = 3.76	

Hydrophytic Vegetation Indicators:

1 - Rapid Test for Hydrophytic Vegetation

2 - Dominance Test is >50%

3 - Prevalence Index is ≤3.0¹

4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes No X

SOIL

Sampling Point W1-Up-2

[illegible]

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Mohawk SA City/County: Herkimer Sampling Date: 10/10/19
 Applicant/Owner: The Wetlands Trust, Inc. State: NY Sampling Point: W1-Wet-3
 Investigator(s): Colin Diehl/Travis Money Section, Township, Range: Schuyler
 Landform (hillside, terrace, etc.): _____ Local relief (concave, convex, none): none Slope %: 0-3
 Subregion (LRR or MLRA): LRR L Lat: 43.0779713 Long: -75.12682044 Datum: WGS 84
 Soil Map Unit Name: Palms Muck NWI classification: PFO

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____ If yes, optional Wetland Site ID: _____
Hydric Soil Present?	Yes <u>X</u> No _____	
Wetland Hydrology Present?	Yes <u>X</u> No _____	
Remarks: (Explain alternative procedures here or in a separate report.) 		

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> <input checked="" type="checkbox"/> Surface Water (A1) <input checked="" type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input checked="" type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<u>Secondary Indicators (minimum of two required)</u> <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input checked="" type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input checked="" type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input checked="" type="checkbox"/> FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes <u>X</u> No _____ Depth (inches): <u>2</u> Water Table Present? Yes _____ No _____ Depth (inches): _____ Saturation Present? Yes _____ No _____ Depth (inches): _____ (includes capillary fringe)		Wetland Hydrology Present? Yes <u>X</u> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: 		
Remarks: at toe of slope of rail line along northern boundary, east of channel.		

VEGETATION – Use scientific names of plants.

 Sampling Point: W1-Wet-3

Tree Stratum (Plot size: <u>15 by 30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u>Ulmus americana</u>	<u>10</u>	<u>No</u>	<u>FACW</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>7</u> (A) Total Number of Dominant Species Across All Strata: <u>7</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)																
2. <u>Ostrya virginiana</u>	<u>5</u>	<u>No</u>	<u>FACU</u>																	
3. <u>Fraxinus pennsylvanica</u>	<u>15</u>	<u>No</u>	<u>FACW</u>																	
4. <u>Salix alba</u>			<u>FACW</u>																	
5. <u>Acer rubrum</u>	<u>25</u>	<u>Yes</u>	<u>FAC</u>																	
6. <u>Acer saccharinum</u>	<u>25</u>	<u>Yes</u>	<u>FACW</u>																	
7. <u>Alnus glutinosa</u>			<u>FACW</u>																	
	<u>80</u>	=Total Cover																		
Sapling/Shrub Stratum (Plot size: <u>15 by 20'</u>)																				
1. <u>Cornus sericea</u>			<u>FACW</u>	Prevalence Index worksheet: <table style="width: 100%;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species <u> </u></td> <td>x 1 = <u> </u></td> </tr> <tr> <td>FACW species <u> </u></td> <td>x 2 = <u> </u></td> </tr> <tr> <td>FAC species <u> </u></td> <td>x 3 = <u> </u></td> </tr> <tr> <td>FACU species <u> </u></td> <td>x 4 = <u> </u></td> </tr> <tr> <td>UPL species <u> </u></td> <td>x 5 = <u> </u></td> </tr> <tr> <td>Column Totals: <u> </u> (A)</td> <td><u> </u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = <u> </u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u> </u>	x 1 = <u> </u>	FACW species <u> </u>	x 2 = <u> </u>	FAC species <u> </u>	x 3 = <u> </u>	FACU species <u> </u>	x 4 = <u> </u>	UPL species <u> </u>	x 5 = <u> </u>	Column Totals: <u> </u> (A)	<u> </u> (B)	Prevalence Index = B/A = <u> </u>	
Total % Cover of:	Multiply by:																			
OBL species <u> </u>	x 1 = <u> </u>																			
FACW species <u> </u>	x 2 = <u> </u>																			
FAC species <u> </u>	x 3 = <u> </u>																			
FACU species <u> </u>	x 4 = <u> </u>																			
UPL species <u> </u>	x 5 = <u> </u>																			
Column Totals: <u> </u> (A)	<u> </u> (B)																			
Prevalence Index = B/A = <u> </u>																				
2. <u>Acer rubrum</u>			<u>FAC</u>																	
3. <u>Fraxinus pennsylvanica</u>	<u>15</u>	<u>Yes</u>	<u>FACW</u>																	
4. <u>Lonicera tatarica</u>			<u>FACU</u>																	
5. <u> </u>																				
6. <u> </u>																				
7. <u> </u>																				
	<u>15</u>	=Total Cover																		
Herb Stratum (Plot size: <u>10 by 15'</u>)																				
1. <u>Lythrum salicaria</u>			<u>OBL</u>	Hydrophytic Vegetation Indicators: <u> </u> 1 - Rapid Test for Hydrophytic Vegetation <u> X </u> 2 - Dominance Test is >50% <u> </u> 3 - Prevalence Index is ≤3.0 ¹ <u> </u> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2. <u>Phalaris arundinacea</u>			<u>FACW</u>																	
3. <u>Polygonum sagittatum</u>			<u>OBL</u>																	
4. <u>Onoclea sensibilis</u>	<u>15</u>	<u>Yes</u>	<u>FACW</u>																	
5. <u>Typha angustifolia</u>			<u>OBL</u>																	
6. <u>Impatiens capensis</u>			<u>FACW</u>																	
7. <u>Urtica dioica</u>	<u>15</u>	<u>Yes</u>	<u>FAC</u>																	
8. <u>Geranium bicknellii</u>	<u>15</u>	<u>Yes</u>	<u>FACW</u>																	
9. <u>Iris versicolor</u>	<u>10</u>	<u>No</u>	<u>FACW</u>																	
10. <u>Equisetum arvense</u>	<u>15</u>	<u>Yes</u>	<u>FACW</u>																	
11. <u>Eupatorium perfoliatum</u>			<u>FACW</u>																	
12. <u>Juncus effusus</u>			<u>OBL</u>																	
	<u>70</u>	=Total Cover																		
Woody Vine Stratum (Plot size: <u> </u>)																				
1. <u> </u>				Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.																
2. <u> </u>																				
3. <u> </u>																				
4. <u> </u>																				
		=Total Cover																		

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point W1-Wet-3

[illegible]

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Mohawk SA City/County: Herkimer Sampling Date: 10/10/19
 Applicant/Owner: The Wetlands Trust, Inc. State: NY Sampling Point: W1-Up-3
 Investigator(s): Colin Diehl/Travis Money Section, Township, Range: Town of Schuyler
 Landform (hillside, terrace, etc.): hillside Local relief (concave, convex, none): _____ Slope %: 0-3
 Subregion (LRR or MLRA): LRR L Lat: 43.0780491 Long: -75.1267871 Datum: WGS 84
 Soil Map Unit Name: Palms muck (Pk) NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u> If yes, optional Wetland Site ID: _____
Hydric Soil Present? Yes _____ No <u>X</u>	
Wetland Hydrology Present? Yes _____ No <u>X</u>	
Remarks: (Explain alternative procedures here or in a separate report.)	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> _____ Surface Water (A1) _____ Water-Stained Leaves (B9) _____ High Water Table (A2) _____ Aquatic Fauna (B13) _____ Saturation (A3) _____ Marl Deposits (B15) _____ Water Marks (B1) _____ Hydrogen Sulfide Odor (C1) _____ Sediment Deposits (B2) _____ Oxidized Rhizospheres on Living Roots (C3) _____ Drift Deposits (B3) _____ Presence of Reduced Iron (C4) _____ Algal Mat or Crust (B4) _____ Recent Iron Reduction in Tilled Soils (C6) _____ Iron Deposits (B5) _____ Thin Muck Surface (C7) _____ Inundation Visible on Aerial Imagery (B7) _____ Other (Explain in Remarks) _____ Sparsely Vegetated Concave Surface (B8)		<u>Secondary Indicators (minimum of two required)</u> _____ Surface Soil Cracks (B6) _____ Drainage Patterns (B10) _____ Moss Trim Lines (B16) _____ Dry-Season Water Table (C2) _____ Crayfish Burrows (C8) _____ Saturation Visible on Aerial Imagery (C9) _____ Stunted or Stressed Plants (D1) _____ Geomorphic Position (D2) _____ Shallow Aquitard (D3) _____ Microtopographic Relief (D4) _____ FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present? Yes _____ No <u>X</u> Depth (inches): _____ Saturation Present? Yes _____ No <u>X</u> Depth (inches): _____ (includes capillary fringe)		Wetland Hydrology Present? Yes _____ No <u>X</u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks: along rail line slope, northwestern edge of Site		

Sampling Point: W1-Up-3

Tree Stratum	(Plot size: 15 by 30')	Absolute % Cover	Dominant Species?	Indicator Status
1.	<i>Prunus serotina</i>			FACU
2.	<i>Pinus strobus</i>			FACU
3.	<i>Thuja occidentalis</i>			FACU
4.	<i>Acer rubrum</i>	5	No	FAC
5.	<i>Fraxinus americana</i>	15	Yes	FACU
6.	<i>Acer saccharum</i>			FACU
7.	<i>Acer negundo</i>	15	Yes	FAC
		35	=Total Cover	
Sapling/Shrub Stratum (Plot size: 15 by 20')				
1.	<i>Rhamnus frangula</i>	10	Yes	FAC
2.	<i>Lonicera tatarica</i>			FACU
3.	<i>Fraxinus americana</i>	10	Yes	FACU
4.	<i>Prunus serotina</i>			FACU
5.	<i>Acer saccharum</i>			FACU
6.	<i>Lindera benzoin</i>			FACW
7.	<i>Rosa multiflora</i>			FACU
		20	=Total Cover	
Herb Stratum (Plot size: 10 by 15')				
1.	<i>Urtica dioica</i>			FAC
2.	<i>Toxicodendron radicans</i>	5	No	UPL
3.	<i>Pteridium aquilinum</i>			FACU
4.	<i>Cornus canadensis</i>			FACU
5.	<i>Rubus allegheniensis</i>	5	No	FACU
6.	<i>Solidago canadensis</i>	15	Yes	FACU
7.	<i>Artemisia vulgaris</i>	15	Yes	UPL
8.	<i>Trifolium repens</i>			FACU
9.	<i>Dactylis glomerata</i>			FACU
10.	<i>Parthenocissus quinquefolia</i>			FACU
11.	<i>Asclepias syriaca</i>			FACU
12.	<i>Daucus carota</i>			UPL
		40	=Total Cover	
Woody Vine Stratum (Plot size:)				
1.				
2.				
3.				
4.				
			=Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 6 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 33.3% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species 0	x 1 = 0
FACW species 0	x 2 = 0
FAC species 30	x 3 = 90
FACU species 45	x 4 = 180
UPL species 20	x 5 = 100
Column Totals: 95 (A)	370 (B)
Prevalence Index = B/A = 3.89	

Hydrophytic Vegetation Indicators:

1 - Rapid Test for Hydrophytic Vegetation

2 - Dominance Test is >50%

3 - Prevalence Index is ≤3.0¹

4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation

Present? Yes No X

SOIL

Sampling Point W1-Up-3

[illegible]

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Mohawk SA City/County: Herkimer Sampling Date: 10/10/19
 Applicant/Owner: The Wetlands Trust, Inc. State: NY Sampling Point: W2-Wet-1
 Investigator(s): Colin Diehl/Travis Money Section, Township, Range: Schuyler
 Landform (hillside, terrace, etc.): _____ Local relief (concave, convex, none): none Slope %: 0-3
 Subregion (LRR or MLRA): LRR L Lat: 43.07523518 Long: -75.1207906 Datum: WGS 84
 Soil Map Unit Name: Palms Muck NWI classification: PEM

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil X, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____ If yes, optional Wetland Site ID: _____
Hydric Soil Present? Yes <u>X</u> No _____	
Wetland Hydrology Present? Yes <u>X</u> No _____	
Remarks: (Explain alternative procedures here or in a separate report.)	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> <input checked="" type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input checked="" type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<u>Secondary Indicators (minimum of two required)</u> <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input checked="" type="checkbox"/> FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes <u>X</u> No _____ Depth (inches): <u>1</u> Water Table Present? Yes <u>X</u> No _____ Depth (inches): _____ Saturation Present? Yes <u>X</u> No _____ Depth (inches): _____ (includes capillary fringe)		Wetland Hydrology Present? Yes <u>X</u> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks: at northern edge of westernmost field near RR crossing, mowed ag field		

VEGETATION – Use scientific names of plants.

 Sampling Point: W2-Wet-1

Tree Stratum (Plot size: <u>15 by 30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u>Ulmus americana</u>			FACW	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>5</u> (A) Total Number of Dominant Species Across All Strata: <u>5</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B) Prevalence Index worksheet: <table style="width: 100%;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species _____</td> <td>x 1 = _____</td> </tr> <tr> <td>FACW species _____</td> <td>x 2 = _____</td> </tr> <tr> <td>FAC species _____</td> <td>x 3 = _____</td> </tr> <tr> <td>FACU species _____</td> <td>x 4 = _____</td> </tr> <tr> <td>UPL species _____</td> <td>x 5 = _____</td> </tr> <tr> <td>Column Totals: _____ (A)</td> <td>_____ (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = _____</td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species _____	x 1 = _____	FACW species _____	x 2 = _____	FAC species _____	x 3 = _____	FACU species _____	x 4 = _____	UPL species _____	x 5 = _____	Column Totals: _____ (A)	_____ (B)	Prevalence Index = B/A = _____	
Total % Cover of:	Multiply by:																			
OBL species _____	x 1 = _____																			
FACW species _____	x 2 = _____																			
FAC species _____	x 3 = _____																			
FACU species _____	x 4 = _____																			
UPL species _____	x 5 = _____																			
Column Totals: _____ (A)	_____ (B)																			
Prevalence Index = B/A = _____																				
2. <u>Ostrya virginiana</u>			FACU																	
3. <u>Fraxinus pennsylvanica</u>			FACW																	
4. <u>Salix alba</u>			FACW																	
5. <u>Acer rubrum</u>			FAC																	
6. <u>Acer saccharinum</u>			FACW																	
7. <u>Alnus glutinosa</u>			FACW																	
			=Total Cover																	
Sapling/Shrub Stratum (Plot size: <u>15 by 20'</u>)																				
1. <u>Cornus sericea</u>			FACW	Hydrophytic Vegetation Indicators: <u> </u> 1 - Rapid Test for Hydrophytic Vegetation <u> X</u> 2 - Dominance Test is >50% <u> </u> 3 - Prevalence Index is ≤3.0 ¹ <u> </u> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2. <u>Acer rubrum</u>			FAC																	
3. <u>Fraxinus pennsylvanica</u>			FACW																	
4. <u>Lonicera tatarica</u>			FACU																	
5. _____																				
6. _____																				
7. _____																				
			=Total Cover																	
Herb Stratum (Plot size: <u>10 by 15'</u>)																				
1. <u>Lythrum salicaria</u>	20	Yes	OBL	Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes <u> X </u> No <u> </u>																
2. <u>Phalaris arundinacea</u>	15	Yes	FACW																	
3. <u>Polygonum sagittatum</u>			OBL																	
4. <u>Onoclea sensibilis</u>			FACW																	
5. <u>Typha angustifolia</u>	25	Yes	OBL																	
6. <u>Impatiens capensis</u>			FACW																	
7. <u>Urtica dioica</u>			FAC																	
8. <u>Geranium bicknellii</u>	15	Yes	FACW																	
9. <u>Iris versicolor</u>			FACW																	
10. <u>Equisetum arvense</u>	15	Yes	FACW																	
11. <u>Eupatorium perfoliatum</u>			FACW																	
12. <u>Juncus effusus</u>	5	No	OBL																	
			95 =Total Cover																	
Woody Vine Stratum (Plot size: _____)																				
1. _____																				
2. _____																				
3. _____																				
4. _____																				
			=Total Cover																	

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point W2-Wet-1

[illegible]

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Mohawk SA City/County: Herkimer Sampling Date: 10/10/19
 Applicant/Owner: The Wetlands Trust, Inc. State: NY Sampling Point: W2-Up-1
 Investigator(s): Colin Diehl/Travis Money Section, Township, Range: Town of Schuyler
 Landform (hillside, terrace, etc.): none Local relief (concave, convex, none): _____ Slope %: 0-3
 Subregion (LRR or MLRA): LRR L Lat: 43.0752351 Long: -75.1203637 Datum: WGS 84
 Soil Map Unit Name: Palms muck (Pk) NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil X, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u> If yes, optional Wetland Site ID: _____
Hydric Soil Present? Yes _____ No <u>X</u>	
Wetland Hydrology Present? Yes _____ No <u>X</u>	
Remarks: (Explain alternative procedures here or in a separate report.)	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> _____ Surface Water (A1) _____ Water-Stained Leaves (B9) _____ High Water Table (A2) _____ Aquatic Fauna (B13) _____ Saturation (A3) _____ Marl Deposits (B15) _____ Water Marks (B1) _____ Hydrogen Sulfide Odor (C1) _____ Sediment Deposits (B2) _____ Oxidized Rhizospheres on Living Roots (C3) _____ Drift Deposits (B3) _____ Presence of Reduced Iron (C4) _____ Algal Mat or Crust (B4) _____ Recent Iron Reduction in Tilled Soils (C6) _____ Iron Deposits (B5) _____ Thin Muck Surface (C7) _____ Inundation Visible on Aerial Imagery (B7) _____ Other (Explain in Remarks) _____ Sparsely Vegetated Concave Surface (B8)		<u>Secondary Indicators (minimum of two required)</u> _____ Surface Soil Cracks (B6) _____ Drainage Patterns (B10) _____ Moss Trim Lines (B16) _____ Dry-Season Water Table (C2) _____ Crayfish Burrows (C8) _____ Saturation Visible on Aerial Imagery (C9) _____ Stunted or Stressed Plants (D1) _____ Geomorphic Position (D2) _____ Shallow Aquitard (D3) _____ Microtopographic Relief (D4) _____ FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present? Yes _____ No <u>X</u> Depth (inches): _____ Saturation Present? Yes _____ No <u>X</u> Depth (inches): _____ (includes capillary fringe)		Wetland Hydrology Present? Yes _____ No <u>X</u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks: within north edge of westernmost ag field		

Sampling Point: W2-Up-1

Tree Stratum (Plot size: 15 by 30')		Absolute % Cover	Dominant Species?	Indicator Status
1.	<i>Prunus serotina</i>			FACU
2.	<i>Pinus strobus</i>			FACU
3.	<i>Thuja occidentalis</i>			FACU
4.	<i>Acer rubrum</i>			FAC
5.	<i>Fraxinus americana</i>			FACU
6.	<i>Acer saccharum</i>			FACU
7.	<i>Acer negundo</i>			FAC
			=Total Cover	
Sapling/Shrub Stratum (Plot size: 15 by 20')				
1.	<i>Rhamnus frangula</i>			FAC
2.	<i>Lonicera tatarica</i>			FACU
3.	<i>Fraxinus americana</i>			FACU
4.	<i>Prunus serotina</i>			FACU
5.	<i>Acer saccharum</i>			FACU
6.	<i>Lindera benzoin</i>			FACW
7.	<i>Rosa multiflora</i>			FACU
			=Total Cover	
Herb Stratum (Plot size: 10 by 15')				
1.	<i>Urtica dioica</i>			FAC
2.	<i>Toxicodendron radicans</i>			UPL
3.	<i>Plantago major</i>	15	Yes	FACU
4.	<i>Phalaris arundinacea</i>	10	No	FAC
5.	<i>Rubus allegheniensis</i>			FACU
6.	<i>Solidago canadensis</i>	5	No	FACU
7.	<i>Artemisia vulgaris</i>	15	Yes	UPL
8.	<i>Trifolium repens</i>	25	Yes	FACU
9.	<i>Dactylis glomerata</i>	5	No	FACU
10.	<i>Parthenocissus quinquefolia</i>			FACU
11.	<i>Asclepias syriaca</i>			FACU
12.	<i>Daucus carota</i>			UPL
		75	=Total Cover	
Woody Vine Stratum (Plot size:)				
1.				
2.				
3.				
4.				
			=Total Cover	

Remarks: (Include photo numbers here or on a separate sheet.)

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species 0	x 1 = 0
FACW species 0	x 2 = 0
FAC species 10	x 3 = 30
FACU species 50	x 4 = 200
UPL species 15	x 5 = 75
Column Totals: 75 (A)	305 (B)
Prevalence Index = B/A = 4.07	

Hydrophytic Vegetation Indicators:

1 - Rapid Test for Hydrophytic Vegetation

2 - Dominance Test is >50%

3 - Prevalence Index is ≤3.0¹

4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes No X

SOIL

Sampling Point W2-Up-1

[illegible]

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Mohawk SA City/County: Herkimer Sampling Date: 10/10/19
 Applicant/Owner: The Wetlands Trust, Inc. State: NY Sampling Point: W3-Wet-1
 Investigator(s): Colin Diehl/Travis Money Section, Township, Range: Schuyler
 Landform (hillside, terrace, etc.): _____ Local relief (concave, convex, none): concave Slope %: 0-3
 Subregion (LRR or MLRA): LRR L Lat: 43.07540048 Long: -75.12036373 Datum: WGS 84
 Soil Map Unit Name: cut and fill land (CU) NWI classification: PSS

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____ If yes, optional Wetland Site ID: _____
Hydric Soil Present? Yes <u>X</u> No _____	
Wetland Hydrology Present? Yes <u>X</u> No _____	
Remarks: (Explain alternative procedures here or in a separate report.)	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> <input checked="" type="checkbox"/> Surface Water (A1) <input checked="" type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input checked="" type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<u>Secondary Indicators (minimum of two required)</u> <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input checked="" type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input checked="" type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input checked="" type="checkbox"/> FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes <u>X</u> No _____ Depth (inches): <u>2</u> Water Table Present? Yes _____ No _____ Depth (inches): _____ Saturation Present? Yes _____ No _____ Depth (inches): _____ (includes capillary fringe)		Wetland Hydrology Present? Yes <u>X</u> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks: within scrub shrub depression/drainageway at northern edge of westernmost field		

VEGETATION – Use scientific names of plants.

 Sampling Point: W3-Wet-1

Tree Stratum (Plot size: <u>15 by 30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u>Ulmus americana</u>			FACW	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>8</u> (A) Total Number of Dominant Species Across All Strata: <u>8</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)																
2. <u>Ostrya virginiana</u>			FACU																	
3. <u>Fraxinus pennsylvanica</u>			FACW																	
4. <u>Salix alba</u>	20	Yes	FACW																	
5. <u>Acer rubrum</u>			FAC	Prevalence Index worksheet: <table style="width: 100%;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species</td> <td>x 1 =</td> </tr> <tr> <td>FACW species</td> <td>x 2 =</td> </tr> <tr> <td>FAC species</td> <td>x 3 =</td> </tr> <tr> <td>FACU species</td> <td>x 4 =</td> </tr> <tr> <td>UPL species</td> <td>x 5 =</td> </tr> <tr> <td>Column Totals:</td> <td>(A) (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A =</td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species	x 1 =	FACW species	x 2 =	FAC species	x 3 =	FACU species	x 4 =	UPL species	x 5 =	Column Totals:	(A) (B)	Prevalence Index = B/A =	
Total % Cover of:	Multiply by:																			
OBL species	x 1 =																			
FACW species	x 2 =																			
FAC species	x 3 =																			
FACU species	x 4 =																			
UPL species	x 5 =																			
Column Totals:	(A) (B)																			
Prevalence Index = B/A =																				
6. <u>Acer saccharinum</u>			FACW																	
7. <u>Alnus glutinosa</u>	5	Yes	FACW																	
	25	=Total Cover																		
Sapling/Shrub Stratum (Plot size: <u>15 by 20'</u>)				Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>X</u> 2 - Dominance Test is >50% <u>3</u> - Prevalence Index is ≤3.0 ¹ <u>4</u> - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
1. <u>Cornus sericea</u>	20	Yes	FACW																	
2. <u>Acer rubrum</u>			FAC																	
3. <u>Fraxinus pennsylvanica</u>	20	Yes	FACW																	
4. <u>Lonicera tatarica</u>			FACU	Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.																
5. <u>Salix alba</u>	15	Yes	FACW																	
6. <u>Alnus glutinosa</u>	15	Yes	FACW																	
7. <u> </u>																				
	70	=Total Cover		Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>																
Herb Stratum (Plot size: <u>10 by 15'</u>)																				
1. <u>Lythrum salicaria</u>			OBL																	
2. <u>Phalaris arundinacea</u>			FACW																	
3. <u>Polygonum sagittatum</u>			OBL	Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>																
4. <u>Onoclea sensibilis</u>	5	No	FACW																	
5. <u>Typha angustifolia</u>			OBL																	
6. <u>Impatiens capensis</u>	15	Yes	FACW																	
7. <u>Urtica dioica</u>			FAC	Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>																
8. <u>Geranium bicknellii</u>	5	No	FACW																	
9. <u>Iris versicolor</u>			FACW																	
10. <u>Equisetum arvense</u>	15	Yes	FACW																	
11. <u>Eupatorium perfoliatum</u>			FACW	Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>																
12. <u>Juncus effusus</u>			OBL																	
	40	=Total Cover																		
Woody Vine Stratum (Plot size: <u> </u>)																				
1. <u> </u>				Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>																
2. <u> </u>																				
3. <u> </u>																				
4. <u> </u>																				
		=Total Cover																		

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point W3-Wet-1

[illegible]

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Mohawk SA City/County: Herkimer Sampling Date: 10/10/19
 Applicant/Owner: The Wetlands Trust, Inc. State: NY Sampling Point: W3-Up-1
 Investigator(s): Colin Diehl/Travis Money Section, Township, Range: Town of Schuyler
 Landform (hillside, terrace, etc.): none Local relief (concave, convex, none): _____ Slope %: 0-3
 Subregion (LRR or MLRA): LRR L Lat: 43.0753701 Long: -75.12043717 Datum: WGS 84
 Soil Map Unit Name: Palms muck (Pk) NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil X, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes _____ No <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u> If yes, optional Wetland Site ID: _____
Hydric Soil Present?	Yes _____ No <u>X</u>	
Wetland Hydrology Present?	Yes _____ No <u>X</u>	
Remarks: (Explain alternative procedures here or in a separate report.) 		

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> _____ Surface Water (A1) _____ Water-Stained Leaves (B9) _____ High Water Table (A2) _____ Aquatic Fauna (B13) _____ Saturation (A3) _____ Marl Deposits (B15) _____ Water Marks (B1) _____ Hydrogen Sulfide Odor (C1) _____ Sediment Deposits (B2) _____ Oxidized Rhizospheres on Living Roots (C3) _____ Drift Deposits (B3) _____ Presence of Reduced Iron (C4) _____ Algal Mat or Crust (B4) _____ Recent Iron Reduction in Tilled Soils (C6) _____ Iron Deposits (B5) _____ Thin Muck Surface (C7) _____ Inundation Visible on Aerial Imagery (B7) _____ Other (Explain in Remarks) _____ Sparsely Vegetated Concave Surface (B8)		<u>Secondary Indicators (minimum of two required)</u> _____ Surface Soil Cracks (B6) _____ Drainage Patterns (B10) _____ Moss Trim Lines (B16) _____ Dry-Season Water Table (C2) _____ Crayfish Burrows (C8) _____ Saturation Visible on Aerial Imagery (C9) _____ Stunted or Stressed Plants (D1) _____ Geomorphic Position (D2) _____ Shallow Aquitard (D3) _____ Microtopographic Relief (D4) _____ FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present? Yes _____ No <u>X</u> Depth (inches): _____ Saturation Present? Yes _____ No <u>X</u> Depth (inches): _____ (includes capillary fringe)		Wetland Hydrology Present? Yes _____ No <u>X</u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: 		
Remarks: within north edge of westernmost ag field, just south of Wetland W3		

Sampling Point: W3-Up-1

Tree Stratum (Plot size: 15 by 30')		Absolute % Cover	Dominant Species?	Indicator Status
1.	<i>Prunus serotina</i>			FACU
2.	<i>Pinus strobus</i>			FACU
3.	<i>Thuja occidentalis</i>			FACU
4.	<i>Acer rubrum</i>			FAC
5.	<i>Fraxinus americana</i>			FACU
6.	<i>Acer saccharum</i>			FACU
7.	<i>Acer negundo</i>			FAC
			=Total Cover	
Sapling/Shrub Stratum (Plot size: 15 by 20')				
1.	<i>Rhamnus frangula</i>			FAC
2.	<i>Lonicera tatarica</i>			FACU
3.	<i>Fraxinus americana</i>	10	Yes	FACU
4.	<i>Prunus serotina</i>			FACU
5.	<i>Acer saccharum</i>			FACU
6.	<i>Lindera benzoin</i>			FACW
7.	<i>Rosa multiflora</i>			FACU
		10	=Total Cover	
Herb Stratum (Plot size: 10 by 15')				
1.	<i>Urtica dioica</i>			FAC
2.	<i>Toxicodendron radicans</i>			UPL
3.	<i>Plantago major</i>	20	Yes	FACU
4.	<i>Phalaris arundinacea</i>			FAC
5.	<i>Rubus allegheniensis</i>			FACU
6.	<i>Solidago canadensis</i>	5	No	FACU
7.	<i>Artemisia vulgaris</i>	5	No	UPL
8.	<i>Trifolium repens</i>	20	Yes	FACU
9.	<i>Dactylis glomerata</i>	5	No	FACU
10.	<i>Parthenocissus quinquefolia</i>			FACU
11.	<i>Taraxacum officinale</i>	15	Yes	FACU
12.	<i>Daucus carota</i>			UPL
		70	=Total Cover	
Woody Vine Stratum (Plot size:)				
1.				
2.				
3.				
4.				
			=Total Cover	

Remarks: (Include photo numbers here or on a separate sheet.)
corn stalks still remaining from last year's harvest

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 4 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species 0	x 1 = 0
FACW species 0	x 2 = 0
FAC species 0	x 3 = 0
FACU species 75	x 4 = 300
UPL species 5	x 5 = 25
Column Totals: 80 (A)	325 (B)
Prevalence Index = B/A = 4.06	

Hydrophytic Vegetation Indicators:

1 - Rapid Test for Hydrophytic Vegetation

2 - Dominance Test is >50%

3 - Prevalence Index is ≤3.0¹

4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes No X

SOIL

Sampling Point W3-Up-1

[illegible]

Project/Site: Mohawk SA City/County: Herkimer Sampling Date: 10/10/19
Applicant/Owner: The Wetlands Trust, Inc. State: NY Sampling Point: W3-Wet-2
Investigator(s): Colin Diehl/Travis Money Section, Township, Range: Schuyler
Landform (hillside, terrace, etc.): drainageway Local relief (concave, convex, none): concave Slope %: 0-3
Subregion (LRR or MLRA): LRR L Lat: 43.07216505 Long: -75.12294376 Datum: WGS 84
Soil Map Unit Name: Teel Silt Loam (TS) NWI classification: PFO

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u> X </u>	No <u> </u>	Is the Sampled Area within a Wetland? Yes <u> X </u> No <u> </u> If yes, optional Wetland Site ID: _____
Hydric Soil Present?	Yes <u> X </u>	No <u> </u>	
Wetland Hydrology Present?	Yes <u> X </u>	No <u> </u>	
Remarks: (Explain alternative procedures here or in a separate report.)			

Wetland Hydrology Indicators:				Secondary Indicators (minimum of two required)	
Primary Indicators (minimum of one is required; check all that apply)					
<input checked="" type="checkbox"/> Surface Water (A1)	<input checked="" type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)			
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input checked="" type="checkbox"/> Drainage Patterns (B10)			
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input checked="" type="checkbox"/> Moss Trim Lines (B16)			
<input checked="" type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)			
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)			
<input checked="" type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)			
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)			
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input checked="" type="checkbox"/> Geomorphic Position (D2)			
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)			
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)			
		<input checked="" type="checkbox"/> FAC-Neutral Test (D5)			
Field Observations: Surface Water Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u> 4 </u> Water Table Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u> </u> Saturation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u> </u> (includes capillary fringe)				Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:					
Remarks: within forested linear wetland/drainageway within southern edge of hedgerow, just north of Mohawk River					

VEGETATION – Use scientific names of plants.

 Sampling Point: W3-Wet-2

Tree Stratum (Plot size: <u>15 by 30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u>Ulmus americana</u>	<u>25</u>	<u>Yes</u>	<u>FACW</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>6</u> (A) Total Number of Dominant Species Across All Strata: <u>6</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)																
2. <u>Ostrya virginiana</u>			<u>FACU</u>																	
3. <u>Fraxinus pennsylvanica</u>	<u>20</u>	<u>Yes</u>	<u>FACW</u>																	
4. <u>Salix alba</u>	<u>20</u>	<u>Yes</u>	<u>FACW</u>																	
5. <u>Acer rubrum</u>			<u>FAC</u>																	
6. <u>Acer saccharinum</u>			<u>FACW</u>																	
7. <u>Alnus glutinosa</u>	<u>5</u>	<u>No</u>	<u>FACW</u>																	
	<u>70</u>	=Total Cover		Prevalence Index worksheet: <table style="width: 100%;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species <u> </u></td> <td>x 1 = <u> </u></td> </tr> <tr> <td>FACW species <u> </u></td> <td>x 2 = <u> </u></td> </tr> <tr> <td>FAC species <u> </u></td> <td>x 3 = <u> </u></td> </tr> <tr> <td>FACU species <u> </u></td> <td>x 4 = <u> </u></td> </tr> <tr> <td>UPL species <u> </u></td> <td>x 5 = <u> </u></td> </tr> <tr> <td>Column Totals: <u> </u></td> <td>(A) <u> </u> (B) <u> </u></td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = <u> </u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u> </u>	x 1 = <u> </u>	FACW species <u> </u>	x 2 = <u> </u>	FAC species <u> </u>	x 3 = <u> </u>	FACU species <u> </u>	x 4 = <u> </u>	UPL species <u> </u>	x 5 = <u> </u>	Column Totals: <u> </u>	(A) <u> </u> (B) <u> </u>	Prevalence Index = B/A = <u> </u>	
Total % Cover of:	Multiply by:																			
OBL species <u> </u>	x 1 = <u> </u>																			
FACW species <u> </u>	x 2 = <u> </u>																			
FAC species <u> </u>	x 3 = <u> </u>																			
FACU species <u> </u>	x 4 = <u> </u>																			
UPL species <u> </u>	x 5 = <u> </u>																			
Column Totals: <u> </u>	(A) <u> </u> (B) <u> </u>																			
Prevalence Index = B/A = <u> </u>																				
Sapling/Shrub Stratum (Plot size: <u>15 by 20'</u>)																				
1. <u>Cornus sericea</u>	<u>5</u>	<u>Yes</u>	<u>FACW</u>																	
2. <u>Acer rubrum</u>			<u>FAC</u>																	
3. <u>Fraxinus pennsylvanica</u>			<u>FACW</u>																	
4. <u>Lonicera tatarica</u>			<u>FACU</u>																	
5. <u>Salix alba</u>			<u>FACW</u>																	
6. <u>Alnus glutinosa</u>			<u>FACW</u>																	
7. <u> </u>																				
	<u>5</u>	=Total Cover																		
Herb Stratum (Plot size: <u>10 by 15'</u>)																				
1. <u>Lythrum salicaria</u>			<u>OBL</u>																	
2. <u>Phalaris arundinacea</u>			<u>FACW</u>																	
3. <u>Polygonum sagittatum</u>			<u>OBL</u>																	
4. <u>Onoclea sensibilis</u>			<u>FACW</u>																	
5. <u>Typha angustifolia</u>			<u>OBL</u>																	
6. <u>Impatiens capensis</u>	<u>25</u>	<u>Yes</u>	<u>FACW</u>																	
7. <u>Urica dioica</u>			<u>FAC</u>																	
8. <u>Geranium bicknellii</u>			<u>FACW</u>																	
9. <u>Iris versicolor</u>			<u>FACW</u>																	
10. <u>Equisetum arvense</u>	<u>20</u>	<u>Yes</u>	<u>FACW</u>																	
11. <u>Eupatorium perfoliatum</u>			<u>FACW</u>																	
12. <u>Toxicodendron radicans</u>	<u>10</u>	<u>No</u>	<u>FAC</u>																	
	<u>55</u>	=Total Cover																		
Woody Vine Stratum (Plot size: <u> </u>)																				
1. <u> </u>																				
2. <u> </u>																				
3. <u> </u>																				
4. <u> </u>																				
		=Total Cover																		

Remarks: (Include photo numbers here or on a separate sheet.)

Hydrophytic Vegetation Indicators:
 1 - Rapid Test for Hydrophytic Vegetation
 X 2 - Dominance Test is >50%
 3 - Prevalence Index is ≤3.0¹
 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
 Problematic Hydrophytic Vegetation¹ (Explain)
¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation
 Present? Yes X No

SOIL

Sampling Point W3-Wet-2

[illegible]

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Mohawk SA City/County: Herkimer Sampling Date: 10/10/19
 Applicant/Owner: The Wetlands Trust, Inc. State: NY Sampling Point: W3-Up-2
 Investigator(s): Colin Diehl/Travis Money Section, Township, Range: Town of Schuyler
 Landform (hillside, terrace, etc.): none Local relief (concave, convex, none): _____ Slope %: 0-3
 Subregion (LRR or MLRA): LRR L Lat: 43.07213498 Long: -75.12309896 Datum: WGS 84
 Soil Map Unit Name: Teel Silt Loam (TS) NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u> If yes, optional Wetland Site ID: _____
Hydric Soil Present? Yes _____ No <u>X</u>	
Wetland Hydrology Present? Yes _____ No <u>X</u>	
Remarks: (Explain alternative procedures here or in a separate report.)	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> _____ Surface Water (A1) _____ Water-Stained Leaves (B9) _____ High Water Table (A2) _____ Aquatic Fauna (B13) _____ Saturation (A3) _____ Marl Deposits (B15) _____ Water Marks (B1) _____ Hydrogen Sulfide Odor (C1) _____ Sediment Deposits (B2) _____ Oxidized Rhizospheres on Living Roots (C3) _____ Drift Deposits (B3) _____ Presence of Reduced Iron (C4) _____ Algal Mat or Crust (B4) _____ Recent Iron Reduction in Tilled Soils (C6) _____ Iron Deposits (B5) _____ Thin Muck Surface (C7) _____ Inundation Visible on Aerial Imagery (B7) _____ Other (Explain in Remarks) _____ Sparsely Vegetated Concave Surface (B8)		<u>Secondary Indicators (minimum of two required)</u> _____ Surface Soil Cracks (B6) _____ Drainage Patterns (B10) _____ Moss Trim Lines (B16) _____ Dry-Season Water Table (C2) _____ Crayfish Burrows (C8) _____ Saturation Visible on Aerial Imagery (C9) _____ Stunted or Stressed Plants (D1) _____ Geomorphic Position (D2) _____ Shallow Aquitard (D3) _____ Microtopographic Relief (D4) _____ FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present? Yes _____ No <u>X</u> Depth (inches): _____ Saturation Present? Yes _____ No <u>X</u> Depth (inches): _____ (includes capillary fringe)		Wetland Hydrology Present? Yes _____ No <u>X</u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks: southeast corner of westernmost ag field		

Sampling Point: W3-Up-2

Tree Stratum (Plot size: 15 by 30')		Absolute % Cover	Dominant Species?	Indicator Status
1.	<i>Prunus serotina</i>			FACU
2.	<i>Pinus strobus</i>			FACU
3.	<i>Thuja occidentalis</i>			FACU
4.	<i>Acer rubrum</i>			FAC
5.	<i>Fraxinus americana</i>			FACU
6.	<i>Acer saccharum</i>			FACU
7.	<i>Acer negundo</i>			FAC
			=Total Cover	
Sapling/Shrub Stratum (Plot size: 15 by 20')				
1.	<i>Rhamnus frangula</i>			FAC
2.	<i>Lonicera tatarica</i>			FACU
3.	<i>Fraxinus americana</i>			FACU
4.	<i>Prunus serotina</i>			FACU
5.	<i>Acer saccharum</i>			FACU
6.	<i>Lindera benzoin</i>			FACW
7.	<i>Rosa multiflora</i>			FACU
			=Total Cover	
Herb Stratum (Plot size: 10 by 15')				
1.	<i>Urtica dioica</i>			FAC
2.	<i>Toxicodendron radicans</i>			UPL
3.	<i>Plantago major</i>	10	No	FACU
4.	<i>Phalaris arundinacea</i>			FAC
5.	<i>Rubus allegheniensis</i>			FACU
6.	<i>Solidago canadensis</i>	15	No	FACU
7.	<i>Artemisia vulgaris</i>	50	Yes	UPL
8.	<i>Trifolium repens</i>	5	No	FACU
9.	<i>Dactylis glomerata</i>			FACU
10.	<i>Parthenocissus quinquefolia</i>			FACU
11.	<i>Taraxacum officinale</i>	15	No	FACU
12.	<i>Daucus carota</i>			UPL
		95	=Total Cover	
Woody Vine Stratum (Plot size:)				
1.				
2.				
3.				
4.				
			=Total Cover	

Remarks: (Include photo numbers here or on a separate sheet.)
corn stalks from last year's crop

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species 0	x 1 = 0
FACW species 0	x 2 = 0
FAC species 0	x 3 = 0
FACU species 45	x 4 = 180
UPL species 50	x 5 = 250
Column Totals: 95 (A)	430 (B)
Prevalence Index = B/A = 4.53	

Hydrophytic Vegetation Indicators:

1 - Rapid Test for Hydrophytic Vegetation

2 - Dominance Test is >50%

3 - Prevalence Index is ≤3.0¹

4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes No X

SOIL

Sampling Point W3-Up-2

[illegible]

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Mohawk SA City/County: Herkimer Sampling Date: 10/10/19
 Applicant/Owner: The Wetlands Trust, Inc. State: NY Sampling Point: W3-Wet-3
 Investigator(s): Colin Diehl/Travis Money Section, Township, Range: Town of Schuyler
 Landform (hillside, terrace, etc.): _____ Local relief (concave, convex, none): none Slope %: 0-3
 Subregion (LRR or MLRA): LRR L Lat: 43.07427307 Long: -75.12143114 Datum: WGS 84
 Soil Map Unit Name: Teel Silt Loam (TS) NWI classification: PEM

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil X, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No _____ Hydric Soil Present? Yes <u>X</u> No _____ Wetland Hydrology Present? Yes <u>X</u> No _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____ If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.)	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> <input checked="" type="checkbox"/> Surface Water (A1) _____ Water-Stained Leaves (B9) <input checked="" type="checkbox"/> High Water Table (A2) _____ Aquatic Fauna (B13) <input checked="" type="checkbox"/> Saturation (A3) _____ Marl Deposits (B15) _____ Water Marks (B1) _____ Hydrogen Sulfide Odor (C1) _____ Sediment Deposits (B2) _____ Oxidized Rhizospheres on Living Roots (C3) _____ Drift Deposits (B3) _____ Presence of Reduced Iron (C4) _____ Algal Mat or Crust (B4) _____ Recent Iron Reduction in Tilled Soils (C6) _____ Iron Deposits (B5) _____ Thin Muck Surface (C7) <input checked="" type="checkbox"/> Inundation Visible on Aerial Imagery (B7) _____ Other (Explain in Remarks) _____ Sparsely Vegetated Concave Surface (B8)	<u>Secondary Indicators (minimum of two required)</u> _____ Surface Soil Cracks (B6) _____ Drainage Patterns (B10) _____ Moss Trim Lines (B16) _____ Dry-Season Water Table (C2) _____ Crayfish Burrows (C8) <input checked="" type="checkbox"/> Saturation Visible on Aerial Imagery (C9) _____ Stunted or Stressed Plants (D1) _____ Geomorphic Position (D2) _____ Shallow Aquitard (D3) _____ Microtopographic Relief (D4) <input checked="" type="checkbox"/> FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes <u>X</u> No _____ Depth (inches): <u>1</u> Water Table Present? Yes <u>X</u> No _____ Depth (inches): _____ Saturation Present? Yes <u>X</u> No _____ Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes <u>X</u> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: along eastern edge of westernmost ag field that had been recently mowed.	

VEGETATION – Use scientific names of plants.

 Sampling Point: W3-Wet-3

Tree Stratum (Plot size: <u>15 by 30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u>Ulmus americana</u>			FACW	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B) Prevalence Index worksheet: <table style="width: 100%;"> <tr> <td>Total % Cover of:</td> <td>Multiply by:</td> </tr> <tr> <td>OBL species _____</td> <td>x 1 = _____</td> </tr> <tr> <td>FACW species _____</td> <td>x 2 = _____</td> </tr> <tr> <td>FAC species _____</td> <td>x 3 = _____</td> </tr> <tr> <td>FACU species _____</td> <td>x 4 = _____</td> </tr> <tr> <td>UPL species _____</td> <td>x 5 = _____</td> </tr> <tr> <td>Column Totals: _____</td> <td>(A) _____ (B) _____</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = _____</td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species _____	x 1 = _____	FACW species _____	x 2 = _____	FAC species _____	x 3 = _____	FACU species _____	x 4 = _____	UPL species _____	x 5 = _____	Column Totals: _____	(A) _____ (B) _____	Prevalence Index = B/A = _____	
Total % Cover of:	Multiply by:																			
OBL species _____	x 1 = _____																			
FACW species _____	x 2 = _____																			
FAC species _____	x 3 = _____																			
FACU species _____	x 4 = _____																			
UPL species _____	x 5 = _____																			
Column Totals: _____	(A) _____ (B) _____																			
Prevalence Index = B/A = _____																				
2. <u>Ostrya virginiana</u>			FACU																	
3. <u>Fraxinus pennsylvanica</u>			FACW																	
4. <u>Salix alba</u>			FACW																	
5. <u>Acer rubrum</u>			FAC																	
6. <u>Acer saccharinum</u>			FACW																	
7. <u>Alnus glutinosa</u>			FACW																	
			=Total Cover																	
Sapling/Shrub Stratum (Plot size: <u>15 by 20'</u>)																				
1. <u>Cornus sericea</u>			FACW	Hydrophytic Vegetation Indicators: <u> </u> 1 - Rapid Test for Hydrophytic Vegetation <u>X</u> 2 - Dominance Test is >50% <u> </u> 3 - Prevalence Index is ≤3.0 ¹ <u> </u> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2. <u>Acer rubrum</u>			FAC																	
3. <u>Fraxinus pennsylvanica</u>			FACW																	
4. <u>Lonicera tatarica</u>			FACU																	
5. <u>Salix alba</u>			FACW																	
6. <u>Alnus glutinosa</u>			FACW																	
7. _____																				
			=Total Cover																	
Herb Stratum (Plot size: <u>10 by 15'</u>)																				
1. <u>Lythrum salicaria</u>	20	Yes	OBL	Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes <u>X</u> No _____																
2. <u>Phalaris arundinacea</u>	15	No	FACW																	
3. <u>Carex spp.</u>	10	No	FACW																	
4. <u>Onoclea sensibilis</u>			FACW																	
5. <u>Typha angustifolia</u>	30	Yes	OBL																	
6. <u>Impatiens capensis</u>			FACW																	
7. <u>Urtica dioica</u>			FAC																	
8. <u>Geranium bicknellii</u>	10	No	FACW																	
9. <u>Iris versicolor</u>			FACW																	
10. <u>Equisetum arvense</u>			FACW																	
11. <u>Eupatorium perfoliatum</u>			FACW																	
12. <u>Toxicodendron radicans</u>			FAC																	
			85	=Total Cover																
Woody Vine Stratum (Plot size: _____)																				
1. _____																				
2. _____																				
3. _____																				
4. _____																				
			=Total Cover																	

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point W3-Wet-3

[illegible]

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Mohawk SA City/County: Herkimer Sampling Date: 10/10/19
 Applicant/Owner: The Wetlands Trust, Inc. State: NY Sampling Point: W3-Up-3
 Investigator(s): Colin Diehl/Travis Money Section, Township, Range: Town of Schuyler
 Landform (hillside, terrace, etc.): none Local relief (concave, convex, none): _____ Slope %: 0-3
 Subregion (LRR or MLRA): LRR L Lat: 43.07422935 Long: -75.12139958 Datum: WGS 84
 Soil Map Unit Name: Teel Silt Loam (TS) NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u> If yes, optional Wetland Site ID: _____
Hydric Soil Present? Yes _____ No <u>X</u>	
Wetland Hydrology Present? Yes _____ No <u>X</u>	
Remarks: (Explain alternative procedures here or in a separate report.)	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> _____ Surface Water (A1) _____ Water-Stained Leaves (B9) _____ High Water Table (A2) _____ Aquatic Fauna (B13) _____ Saturation (A3) _____ Marl Deposits (B15) _____ Water Marks (B1) _____ Hydrogen Sulfide Odor (C1) _____ Sediment Deposits (B2) _____ Oxidized Rhizospheres on Living Roots (C3) _____ Drift Deposits (B3) _____ Presence of Reduced Iron (C4) _____ Algal Mat or Crust (B4) _____ Recent Iron Reduction in Tilled Soils (C6) _____ Iron Deposits (B5) _____ Thin Muck Surface (C7) _____ Inundation Visible on Aerial Imagery (B7) _____ Other (Explain in Remarks) _____ Sparsely Vegetated Concave Surface (B8)		<u>Secondary Indicators (minimum of two required)</u> _____ Surface Soil Cracks (B6) _____ Drainage Patterns (B10) _____ Moss Trim Lines (B16) _____ Dry-Season Water Table (C2) _____ Crayfish Burrows (C8) _____ Saturation Visible on Aerial Imagery (C9) _____ Stunted or Stressed Plants (D1) _____ Geomorphic Position (D2) _____ Shallow Aquitard (D3) _____ Microtopographic Relief (D4) _____ FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present? Yes _____ No <u>X</u> Depth (inches): _____ Saturation Present? Yes _____ No <u>X</u> Depth (inches): _____ (includes capillary fringe)		Wetland Hydrology Present? Yes _____ No <u>X</u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks: eastern edge of westernmost ag field		

Sampling Point: W3-Up-3

Tree Stratum (Plot size: 15 by 30')		Absolute % Cover	Dominant Species?	Indicator Status
1.	<i>Prunus serotina</i>			FACU
2.	<i>Pinus strobus</i>			FACU
3.	<i>Thuja occidentalis</i>			FACU
4.	<i>Acer rubrum</i>			FAC
5.	<i>Fraxinus americana</i>			FACU
6.	<i>Acer saccharum</i>			FACU
7.	<i>Acer negundo</i>			FAC
			=Total Cover	
Sapling/Shrub Stratum (Plot size: 15 by 20')				
1.	<i>Rhamnus frangula</i>			FAC
2.	<i>Lonicera tatarica</i>			FACU
3.	<i>Fraxinus americana</i>			FACU
4.	<i>Prunus serotina</i>			FACU
5.	<i>Acer saccharum</i>			FACU
6.	<i>Lindera benzoin</i>			FACW
7.	<i>Rosa multiflora</i>			FACU
			=Total Cover	
Herb Stratum (Plot size: 10 by 15')				
1.	<i>Urtica dioica</i>			FAC
2.	<i>Toxicodendron radicans</i>			UPL
3.	<i>Plantago major</i>	15	Yes	FACU
4.	<i>Phalaris arundinacea</i>			FAC
5.	<i>Rubus allegheniensis</i>			FACU
6.	<i>Solidago canadensis</i>	5	No	FACU
7.	<i>Artemisia vulgaris</i>	5	No	UPL
8.	<i>Trifolium repens</i>	40	Yes	FACU
9.	<i>Dactylis glomerata</i>			FACU
10.	<i>Parthenocissus quinquefolia</i>			FACU
11.	<i>Taraxacum officinale</i>	10	No	FACU
12.	<i>Daucus carota</i>			UPL
		75	=Total Cover	
Woody Vine Stratum (Plot size:)				
1.				
2.				
3.				
4.				
			=Total Cover	
Remarks: (Include photo numbers here or on a separate sheet.) corn stalks from last year's crop				

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species 0	x 1 = 0
FACW species 0	x 2 = 0
FAC species 0	x 3 = 0
FACU species 70	x 4 = 280
UPL species 5	x 5 = 25
Column Totals: 75 (A)	305 (B)
Prevalence Index = B/A = 4.07	

Hydrophytic Vegetation Indicators:

1 - Rapid Test for Hydrophytic Vegetation

2 - Dominance Test is >50%

3 - Prevalence Index is ≤3.0¹

4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes No X

SOIL

Sampling Point W3-Up-3

[illegible]

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Mohawk SA City/County: Herkimer Sampling Date: 10/11/19
 Applicant/Owner: The Wetlands Trust, Inc. State: NY Sampling Point: W4-Wet-1
 Investigator(s): Colin Diehl/Travis Money Section, Township, Range: Schuyler
 Landform (hillside, terrace, etc.): _____ Local relief (concave, convex, none): concave Slope %: 0-3
 Subregion (LRR or MLRA): LRR L Lat: 43.07234705 Long: -75.12096917 Datum: WGS 84
 Soil Map Unit Name: Alluvial Land (Ad) NWI classification: PFO

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____ If yes, optional Wetland Site ID: _____
Hydric Soil Present? Yes <u>X</u> No _____	
Wetland Hydrology Present? Yes <u>X</u> No _____	
Remarks: (Explain alternative procedures here or in a separate report.)	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> _____ Surface Water (A1) _____ Water-Stained Leaves (B9) _____ High Water Table (A2) _____ Aquatic Fauna (B13) <u>X</u> Saturation (A3) _____ Marl Deposits (B15) _____ Water Marks (B1) _____ Hydrogen Sulfide Odor (C1) <u>X</u> Sediment Deposits (B2) _____ Oxidized Rhizospheres on Living Roots (C3) <u>X</u> Drift Deposits (B3) _____ Presence of Reduced Iron (C4) _____ Algal Mat or Crust (B4) _____ Recent Iron Reduction in Tilled Soils (C6) _____ Iron Deposits (B5) _____ Thin Muck Surface (C7) _____ Inundation Visible on Aerial Imagery (B7) _____ Other (Explain in Remarks) <u>X</u> Sparsely Vegetated Concave Surface (B8)		<u>Secondary Indicators (minimum of two required)</u> _____ Surface Soil Cracks (B6) _____ Drainage Patterns (B10) _____ Moss Trim Lines (B16) _____ Dry-Season Water Table (C2) _____ Crayfish Burrows (C8) _____ Saturation Visible on Aerial Imagery (C9) _____ Stunted or Stressed Plants (D1) _____ Geomorphic Position (D2) _____ Shallow Aquitard (D3) _____ Microtopographic Relief (D4) <u>X</u> FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes _____ No _____ Depth (inches): _____ Water Table Present? Yes _____ No _____ Depth (inches): _____ Saturation Present? Yes <u>X</u> No _____ Depth (inches): <u>8</u> (includes capillary fringe)		Wetland Hydrology Present? Yes <u>X</u> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks: Located within wooded wetland adjacent to tributary and upland floodplain forest.		

VEGETATION – Use scientific names of plants.

 Sampling Point: W4-Wet-1

Tree Stratum (Plot size: <u>15 by 30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u>Ulmus americana</u>	<u>20</u>	<u>Yes</u>	<u>FACW</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>9</u> (A) Total Number of Dominant Species Across All Strata: <u>9</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)																
2. <u>Ostrya virginiana</u>			<u>FACU</u>																	
3. <u>Fraxinus pennsylvanica</u>	<u>20</u>	<u>Yes</u>	<u>FACW</u>																	
4. <u>Salix alba</u>	<u>15</u>	<u>Yes</u>	<u>FACW</u>																	
5. <u>Acer rubrum</u>			<u>FAC</u>																	
6. <u>Acer saccharinum</u>			<u>FACW</u>																	
7. <u>Alnus glutinosa</u>			<u>FACW</u>																	
	<u>55</u>	=Total Cover		Prevalence Index worksheet: <table style="width: 100%;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species <u> </u></td> <td>x 1 = <u> </u></td> </tr> <tr> <td>FACW species <u> </u></td> <td>x 2 = <u> </u></td> </tr> <tr> <td>FAC species <u> </u></td> <td>x 3 = <u> </u></td> </tr> <tr> <td>FACU species <u> </u></td> <td>x 4 = <u> </u></td> </tr> <tr> <td>UPL species <u> </u></td> <td>x 5 = <u> </u></td> </tr> <tr> <td>Column Totals: <u> </u></td> <td>(A) <u> </u> (B) <u> </u></td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = <u> </u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u> </u>	x 1 = <u> </u>	FACW species <u> </u>	x 2 = <u> </u>	FAC species <u> </u>	x 3 = <u> </u>	FACU species <u> </u>	x 4 = <u> </u>	UPL species <u> </u>	x 5 = <u> </u>	Column Totals: <u> </u>	(A) <u> </u> (B) <u> </u>	Prevalence Index = B/A = <u> </u>	
Total % Cover of:	Multiply by:																			
OBL species <u> </u>	x 1 = <u> </u>																			
FACW species <u> </u>	x 2 = <u> </u>																			
FAC species <u> </u>	x 3 = <u> </u>																			
FACU species <u> </u>	x 4 = <u> </u>																			
UPL species <u> </u>	x 5 = <u> </u>																			
Column Totals: <u> </u>	(A) <u> </u> (B) <u> </u>																			
Prevalence Index = B/A = <u> </u>																				
Sapling/Shrub Stratum (Plot size: <u>15 by 20'</u>)																				
1. <u>Cornus sericea</u>	<u>25</u>	<u>Yes</u>	<u>FACW</u>																	
2. <u>Acer rubrum</u>			<u>FAC</u>																	
3. <u>Fraxinus pennsylvanica</u>			<u>FACW</u>																	
4. <u>Lonicera tatarica</u>			<u>FACU</u>																	
5. <u>Salix alba</u>	<u>10</u>	<u>Yes</u>	<u>FACW</u>																	
6. <u>Alnus glutinosa</u>			<u>FACW</u>																	
7. <u> </u>																				
	<u>35</u>	=Total Cover																		
Herb Stratum (Plot size: <u>10 by 15'</u>)																				
1. <u>Menispermum canadense</u>	<u>15</u>	<u>Yes</u>	<u>FAC</u>	Hydrophytic Vegetation Indicators: <u> </u> 1 - Rapid Test for Hydrophytic Vegetation <u> X </u> 2 - Dominance Test is >50% <u> </u> 3 - Prevalence Index is ≤3.0 ¹ <u> </u> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2. <u>Phalaris arundinacea</u>			<u>FACW</u>																	
3. <u>Carex spp.</u>			<u>FACW</u>																	
4. <u>Onoclea sensibilis</u>			<u>FACW</u>																	
5. <u>Typha angustifolia</u>			<u>OBL</u>																	
6. <u>Impatiens capensis</u>	<u>15</u>	<u>Yes</u>	<u>FACW</u>																	
7. <u>Urica dioica</u>			<u>FAC</u>																	
8. <u>Geranium bicknellii</u>			<u>FACW</u>																	
9. <u>Iris versicolor</u>	<u>15</u>	<u>Yes</u>	<u>FACW</u>																	
10. <u>Equisetum arvense</u>			<u>FACW</u>																	
11. <u>Eupatorium perfoliatum</u>			<u>FACW</u>																	
12. <u>Toxicodendron radicans</u>	<u>15</u>	<u>Yes</u>	<u>FAC</u>																	
	<u>60</u>	=Total Cover																		
Woody Vine Stratum (Plot size: <u> </u>)																				
1. <u> </u>				Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.																
2. <u> </u>																				
3. <u> </u>																				
4. <u> </u>																				
		=Total Cover																		

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point W4-Wet-1

[illegible]

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Mohawk SA City/County: Herkimer Sampling Date: 10/11/19
Applicant/Owner: The Wetlands Trust, Inc. State: NY Sampling Point: W4-Up-1
Investigator(s): Colin Diehl/Travis Money Section, Township, Range: Town of Schuyler
Landform (hillside, terrace, etc.): none Local relief (concave, convex, none): convex Slope %: 0-3
Subregion (LRR or MLRA): LRR L Lat: 43.07240173 Long: -75.12089752 Datum: WGS 84
Soil Map Unit Name: Alluvial Land (Ad) NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u> If yes, optional Wetland Site ID: _____
Hydric Soil Present? Yes _____ No <u>X</u>	
Wetland Hydrology Present? Yes _____ No <u>X</u>	
Remarks: (Explain alternative procedures here or in a separate report.)	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> ____ Surface Water (A1) ____ Water-Stained Leaves (B9) ____ High Water Table (A2) ____ Aquatic Fauna (B13) ____ Saturation (A3) ____ Marl Deposits (B15) ____ Water Marks (B1) ____ Hydrogen Sulfide Odor (C1) ____ Sediment Deposits (B2) ____ Oxidized Rhizospheres on Living Roots (C3) ____ Drift Deposits (B3) ____ Presence of Reduced Iron (C4) ____ Algal Mat or Crust (B4) ____ Recent Iron Reduction in Tilled Soils (C6) ____ Iron Deposits (B5) ____ Thin Muck Surface (C7) ____ Inundation Visible on Aerial Imagery (B7) ____ Other (Explain in Remarks) ____ Sparsely Vegetated Concave Surface (B8)		<u>Secondary Indicators (minimum of two required)</u> ____ Surface Soil Cracks (B6) ____ Drainage Patterns (B10) ____ Moss Trim Lines (B16) ____ Dry-Season Water Table (C2) ____ Crayfish Burrows (C8) ____ Saturation Visible on Aerial Imagery (C9) ____ Stunted or Stressed Plants (D1) ____ Geomorphic Position (D2) ____ Shallow Aquitard (D3) ____ Microtopographic Relief (D4) ____ FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present? Yes _____ No <u>X</u> Depth (inches): _____ Saturation Present? Yes _____ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No <u>X</u>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks: upslope from W4-Wet-1		

VEGETATION – Use scientific names of plants.

 Sampling Point: W4-Up-1

Tree Stratum (Plot size: <u>15 by 30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u>Rhamnus cathartica</u>	<u>15</u>	<u>Yes</u>	<u>FACU</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>6</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>16.7%</u> (A/B)																
2. <u>Crataegus monogyna</u>	<u>10</u>	<u>No</u>	<u>FACU</u>																	
3. <u>Platanus occidentalis</u>	<u>15</u>	<u>Yes</u>	<u>FACU</u>																	
4. <u>Acer rubrum</u>			<u>FAC</u>																	
5. <u>Fraxinus americana</u>	<u>15</u>	<u>Yes</u>	<u>FACU</u>																	
6. <u>Acer saccharum</u>			<u>FACU</u>																	
7. <u>Acer negundo</u>			<u>FAC</u>																	
	<u>55</u>	=Total Cover																		
Sapling/Shrub Stratum (Plot size: <u>15 by 20'</u>)																				
1. <u>Rhamnus cathartica</u>	<u>20</u>	<u>Yes</u>	<u>FAC</u>	Prevalence Index worksheet: <table style="width: 100%;"> <thead> <tr> <th>Total % Cover of:</th> <th>Multiply by:</th> </tr> </thead> <tbody> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>0</u></td> <td>x 2 = <u>0</u></td> </tr> <tr> <td>FAC species <u>20</u></td> <td>x 3 = <u>60</u></td> </tr> <tr> <td>FACU species <u>75</u></td> <td>x 4 = <u>300</u></td> </tr> <tr> <td>UPL species <u>10</u></td> <td>x 5 = <u>50</u></td> </tr> <tr> <td>Column Totals: <u>105</u> (A)</td> <td><u>410</u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = <u>3.90</u></td> </tr> </tbody> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>0</u>	x 2 = <u>0</u>	FAC species <u>20</u>	x 3 = <u>60</u>	FACU species <u>75</u>	x 4 = <u>300</u>	UPL species <u>10</u>	x 5 = <u>50</u>	Column Totals: <u>105</u> (A)	<u>410</u> (B)	Prevalence Index = B/A = <u>3.90</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>0</u>	x 1 = <u>0</u>																			
FACW species <u>0</u>	x 2 = <u>0</u>																			
FAC species <u>20</u>	x 3 = <u>60</u>																			
FACU species <u>75</u>	x 4 = <u>300</u>																			
UPL species <u>10</u>	x 5 = <u>50</u>																			
Column Totals: <u>105</u> (A)	<u>410</u> (B)																			
Prevalence Index = B/A = <u>3.90</u>																				
2. <u>Lonicera tatarica</u>			<u>FACU</u>																	
3. <u>Fraxinus americana</u>			<u>FACU</u>																	
4. _____																				
5. <u>Acer saccharum</u>			<u>FACU</u>																	
6. <u>Lindera benzoin</u>			<u>FACW</u>																	
7. <u>Rosa multiflora</u>	<u>20</u>	<u>Yes</u>	<u>FACU</u>																	
	<u>40</u>	=Total Cover																		
Herb Stratum (Plot size: <u>10 by 15'</u>)																				
1. <u>Urtica dioica</u>			<u>FAC</u>	Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>2</u> - Dominance Test is >50% <u>3</u> - Prevalence Index is ≤3.0 ¹ <u>4</u> - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2. <u>Toxicodendron radicans</u>	<u>10</u>	<u>Yes</u>	<u>UPL</u>																	
3. <u>Plantago major</u>			<u>FACU</u>																	
4. <u>Phalaris arundinacea</u>			<u>FAC</u>																	
5. <u>Rubus allegheniensis</u>			<u>FACU</u>																	
6. <u>Solidago canadensis</u>			<u>FACU</u>																	
7. <u>Artemisia vulgaris</u>			<u>UPL</u>																	
8. <u>Trifolium repens</u>			<u>FACU</u>																	
9. <u>Dactylis glomerata</u>			<u>FACU</u>																	
10. <u>Parthenocissus quinquefolia</u>			<u>FACU</u>																	
11. <u>Taraxacum officinale</u>			<u>FACU</u>																	
12. <u>Daucus carota</u>			<u>UPL</u>																	
	<u>10</u>	=Total Cover																		
Woody Vine Stratum (Plot size: _____)																				
1. _____				Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.																
2. _____																				
3. _____																				
4. _____																				
		=Total Cover																		

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point W4-Up-1

[illegible]

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Mohawk SA City/County: Herkimer Sampling Date: 10/11/19
 Applicant/Owner: The Wetlands Trust, Inc. State: NY Sampling Point: W5-Wet-1
 Investigator(s): Colin Diehl/Travis Money Section, Township, Range: Schuyler
 Landform (hillside, terrace, etc.): drainageway/linear corridor Local relief (concave, convex, none): concave Slope %: 0-3
 Subregion (LRR or MLRA): LRR L Lat: 43.07019185 Long: -75.11953061 Datum: WGS 84
 Soil Map Unit Name: Teel Silt Loam (TS) NWI classification: PSS/PFO

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u> Hydric Soil Present? Yes <u>X</u> No <u> </u> Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u> If yes, optional Wetland Site ID: <u> </u>
Remarks: (Explain alternative procedures here or in a separate report.)	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> <div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> <u>X</u> Surface Water (A1) <u>X</u> High Water Table (A2) <u>X</u> Saturation (A3) <u> </u> Water Marks (B1) <u>X</u> Sediment Deposits (B2) <u>X</u> Drift Deposits (B3) <u> </u> Algal Mat or Crust (B4) <u> </u> Iron Deposits (B5) <u> </u> Inundation Visible on Aerial Imagery (B7) <u>X</u> Sparsely Vegetated Concave Surface (B8) </div> <div style="width: 48%;"> <u>X</u> Water-Stained Leaves (B9) <u> </u> Aquatic Fauna (B13) <u> </u> Marl Deposits (B15) <u> </u> Hydrogen Sulfide Odor (C1) <u> </u> Oxidized Rhizospheres on Living Roots (C3) <u> </u> Presence of Reduced Iron (C4) <u> </u> Recent Iron Reduction in Tilled Soils (C6) <u> </u> Thin Muck Surface (C7) <u> </u> Other (Explain in Remarks) </div> </div>	<u>Secondary Indicators (minimum of two required)</u> <u> </u> Surface Soil Cracks (B6) <u>X</u> Drainage Patterns (B10) <u>X</u> Moss Trim Lines (B16) <u> </u> Dry-Season Water Table (C2) <u> </u> Crayfish Burrows (C8) <u> </u> Saturation Visible on Aerial Imagery (C9) <u> </u> Stunted or Stressed Plants (D1) <u>X</u> Geomorphic Position (D2) <u> </u> Shallow Aquitard (D3) <u> </u> Microtopographic Relief (D4) <u>X</u> FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes <u>X</u> No <u> </u> Depth (inches): <u>2</u> Water Table Present? Yes <u>X</u> No <u> </u> Depth (inches): <u> </u> Saturation Present? Yes <u>X</u> No <u> </u> Depth (inches): <u> </u> (includes capillary fringe)	Wetland Hydrology Present? Yes <u>X</u> No <u> </u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: Located within scrub-shrub/wooded linear drainageway/corridor within hedgerow of central portion of Site	

VEGETATION – Use scientific names of plants.

 Sampling Point: W5-Wet-1

Tree Stratum (Plot size: <u>15 by 30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u>Ulmus americana</u>	<u>15</u>	<u>Yes</u>	<u>FACW</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>6</u> (A) Total Number of Dominant Species Across All Strata: <u>6</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)																
2. <u>Ostrya virginiana</u>			<u>FACU</u>																	
3. <u>Fraxinus pennsylvanica</u>	<u>10</u>	<u>Yes</u>	<u>FACW</u>																	
4. <u>Salix alba</u>			<u>FACW</u>																	
5. <u>Acer rubrum</u>			<u>FAC</u>																	
6. <u>Acer saccharinum</u>			<u>FACW</u>																	
7. <u>Alnus glutinosa</u>			<u>FACW</u>																	
	<u>25</u>	=Total Cover																		
Sapling/Shrub Stratum (Plot size: <u>15 by 20'</u>)																				
1. <u>Cornus sericea</u>	<u>5</u>	<u>No</u>	<u>FACW</u>	Prevalence Index worksheet: <table style="width: 100%;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species <u> </u></td> <td>x 1 = <u> </u></td> </tr> <tr> <td>FACW species <u> </u></td> <td>x 2 = <u> </u></td> </tr> <tr> <td>FAC species <u> </u></td> <td>x 3 = <u> </u></td> </tr> <tr> <td>FACU species <u> </u></td> <td>x 4 = <u> </u></td> </tr> <tr> <td>UPL species <u> </u></td> <td>x 5 = <u> </u></td> </tr> <tr> <td>Column Totals: <u> </u></td> <td>(A) <u> </u> (B) <u> </u></td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = <u> </u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u> </u>	x 1 = <u> </u>	FACW species <u> </u>	x 2 = <u> </u>	FAC species <u> </u>	x 3 = <u> </u>	FACU species <u> </u>	x 4 = <u> </u>	UPL species <u> </u>	x 5 = <u> </u>	Column Totals: <u> </u>	(A) <u> </u> (B) <u> </u>	Prevalence Index = B/A = <u> </u>	
Total % Cover of:	Multiply by:																			
OBL species <u> </u>	x 1 = <u> </u>																			
FACW species <u> </u>	x 2 = <u> </u>																			
FAC species <u> </u>	x 3 = <u> </u>																			
FACU species <u> </u>	x 4 = <u> </u>																			
UPL species <u> </u>	x 5 = <u> </u>																			
Column Totals: <u> </u>	(A) <u> </u> (B) <u> </u>																			
Prevalence Index = B/A = <u> </u>																				
2. <u>Acer rubrum</u>			<u>FAC</u>																	
3. <u>Fraxinus pennsylvanica</u>	<u>40</u>	<u>Yes</u>	<u>FACW</u>																	
4. <u>Lonicera tatarica</u>			<u>FACU</u>																	
5. <u>Salix alba</u>	<u>5</u>	<u>No</u>	<u>FACW</u>																	
6. <u>Alnus glutinosa</u>			<u>FACW</u>																	
7. <u> </u>																				
	<u>50</u>	=Total Cover																		
Herb Stratum (Plot size: <u>10 by 15'</u>)																				
1. <u>Menispermum canadense</u>			<u>FAC</u>	Hydrophytic Vegetation Indicators: <u> </u> 1 - Rapid Test for Hydrophytic Vegetation <u> X </u> 2 - Dominance Test is >50% <u> </u> 3 - Prevalence Index is ≤3.0 ¹ <u> </u> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2. <u>Phalaris arundinacea</u>			<u>FACW</u>																	
3. <u>Carex spp.</u>			<u>FACW</u>																	
4. <u>Onoclea sensibilis</u>			<u>FACW</u>																	
5. <u>Typha angustifolia</u>			<u>OBL</u>																	
6. <u>Impatiens capensis</u>			<u>FACW</u>																	
7. <u>Urtica dioica</u>	<u>10</u>	<u>Yes</u>	<u>FAC</u>																	
8. <u>Geranium bicknellii</u>			<u>FACW</u>																	
9. <u>Iris versicolor</u>			<u>FACW</u>																	
10. <u>Equisetum arvense</u>	<u>5</u>	<u>No</u>	<u>FACW</u>																	
11. <u>Equisetum hyemale</u>	<u>15</u>	<u>Yes</u>	<u>FACW</u>																	
12. <u>Toxicodendron radicans</u>	<u>5</u>	<u>No</u>	<u>FAC</u>																	
	<u>35</u>	=Total Cover																		
Woody Vine Stratum (Plot size: <u> </u>)																				
1. <u>Vitis riparia</u>	<u>10</u>	<u>Yes</u>	<u>FAC</u>	Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.																
2. <u> </u>																				
3. <u> </u>																				
4. <u> </u>																				
	<u>10</u>	=Total Cover																		

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point W5-Wet-1

[illegible]

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Mohawk SA City/County: Herkimer Sampling Date: 10/11/19
 Applicant/Owner: The Wetlands Trust, Inc. State: NY Sampling Point: W5-Up-1
 Investigator(s): Colin Diehl/Travis Money Section, Township, Range: Town of Schuyler
 Landform (hillside, terrace, etc.): none Local relief (concave, convex, none): convex Slope %: 0-3
 Subregion (LRR or MLRA): LRR L Lat: 43.07026655 Long: -75.11956864 Datum: WGS 84
 Soil Map Unit Name: Teel Silt Loam (Ts) NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <u>X</u> Hydric Soil Present? Yes _____ No <u>X</u> Wetland Hydrology Present? Yes _____ No <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u> If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.)	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> _____ Surface Water (A1) _____ Water-Stained Leaves (B9) _____ High Water Table (A2) _____ Aquatic Fauna (B13) _____ Saturation (A3) _____ Marl Deposits (B15) _____ Water Marks (B1) _____ Hydrogen Sulfide Odor (C1) _____ Sediment Deposits (B2) _____ Oxidized Rhizospheres on Living Roots (C3) _____ Drift Deposits (B3) _____ Presence of Reduced Iron (C4) _____ Algal Mat or Crust (B4) _____ Recent Iron Reduction in Tilled Soils (C6) _____ Iron Deposits (B5) _____ Thin Muck Surface (C7) _____ Inundation Visible on Aerial Imagery (B7) _____ Other (Explain in Remarks) _____ Sparsely Vegetated Concave Surface (B8)	<u>Secondary Indicators (minimum of two required)</u> _____ Surface Soil Cracks (B6) _____ Drainage Patterns (B10) _____ Moss Trim Lines (B16) _____ Dry-Season Water Table (C2) _____ Crayfish Burrows (C8) _____ Saturation Visible on Aerial Imagery (C9) _____ Stunted or Stressed Plants (D1) _____ Geomorphic Position (D2) _____ Shallow Aquitard (D3) _____ Microtopographic Relief (D4) _____ FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present? Yes _____ No <u>X</u> Depth (inches): _____ Saturation Present? Yes _____ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No <u>X</u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: upslope in ag field from W5-Wet-1 in drainageway/hedgerow	

VEGETATION – Use scientific names of plants.

 Sampling Point: W5-Up-1

Tree Stratum (Plot size: <u>15 by 30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u>Rhamnus cathartica</u>			FACU	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>5</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0.0%</u> (A/B)																
2. <u>Crataegus monogyna</u>			FACU																	
3. <u>Platanus occidentalis</u>			FACU																	
4. <u>Acer rubrum</u>			FAC																	
5. <u>Fraxinus americana</u>			FACU																	
6. <u>Acer saccharum</u>			FACU																	
7. <u>Acer negundo</u>			FAC																	
=Total Cover				Prevalence Index worksheet: <table style="width: 100%;"> <thead> <tr> <th>Total % Cover of:</th> <th>Multiply by:</th> </tr> </thead> <tbody> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>0</u></td> <td>x 2 = <u>0</u></td> </tr> <tr> <td>FAC species <u>0</u></td> <td>x 3 = <u>0</u></td> </tr> <tr> <td>FACU species <u>45</u></td> <td>x 4 = <u>180</u></td> </tr> <tr> <td>UPL species <u>25</u></td> <td>x 5 = <u>125</u></td> </tr> <tr> <td>Column Totals: <u>70</u> (A)</td> <td><u>305</u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = <u>4.36</u></td> </tr> </tbody> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>0</u>	x 2 = <u>0</u>	FAC species <u>0</u>	x 3 = <u>0</u>	FACU species <u>45</u>	x 4 = <u>180</u>	UPL species <u>25</u>	x 5 = <u>125</u>	Column Totals: <u>70</u> (A)	<u>305</u> (B)	Prevalence Index = B/A = <u>4.36</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>0</u>	x 1 = <u>0</u>																			
FACW species <u>0</u>	x 2 = <u>0</u>																			
FAC species <u>0</u>	x 3 = <u>0</u>																			
FACU species <u>45</u>	x 4 = <u>180</u>																			
UPL species <u>25</u>	x 5 = <u>125</u>																			
Column Totals: <u>70</u> (A)	<u>305</u> (B)																			
Prevalence Index = B/A = <u>4.36</u>																				
Sapling/Shrub Stratum (Plot size: <u>15 by 20'</u>)																				
1. <u>Rhamnus cathartica</u>			FAC																	
2. <u>Lonicera tatarica</u>			FACU																	
3. <u>Fraxinus americana</u>			FACU																	
4. _____																				
5. <u>Acer saccharum</u>			FACU																	
6. <u>Lindera benzoin</u>			FACW																	
7. <u>Rosa multiflora</u>			FACU																	
=Total Cover																				
Herb Stratum (Plot size: <u>10 by 15'</u>)																				
1. <u>Urtica dioica</u>			FAC	Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>2</u> - Dominance Test is >50% <u>3</u> - Prevalence Index is ≤3.0 ¹ <u>4</u> - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2. <u>Toxicodendron radicans</u>	<u>5</u>	No	UPL																	
3. <u>Plantago major</u>	<u>5</u>	No	FACU																	
4. <u>Phalaris arundinacea</u>			FAC																	
5. <u>Rubus allegheniensis</u>			FACU																	
6. <u>Solidago canadensis</u>	<u>10</u>	Yes	FACU																	
7. <u>Artemisia vulgaris</u>	<u>10</u>	Yes	UPL																	
8. <u>Trifolium repens</u>	<u>15</u>	Yes	FACU																	
9. <u>Dactylis glomerata</u>	<u>5</u>	No	FACU																	
10. <u>Parthenocissus quinquefolia</u>			FACU																	
11. <u>Taraxacum officinale</u>	<u>10</u>	Yes	FACU																	
12. <u>Daucus carota</u>	<u>10</u>	Yes	UPL																	
=Total Cover																				
Woody Vine Stratum (Plot size: _____)																				
1. _____				Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.																
2. _____																				
3. _____																				
4. _____																				
=Total Cover																				
Remarks: (Include photo numbers here or on a separate sheet.)																				

SOIL

Sampling Point W5-Up-1

[illegible]

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Mohawk SA City/County: Herkimer Sampling Date: 10/11/19
 Applicant/Owner: The Wetlands Trust, Inc. State: NY Sampling Point: W6-Wet-1
 Investigator(s): Colin Diehl/Travis Money Section, Township, Range: Town of Schuyler
 Landform (hillside, terrace, etc.): _____ Local relief (concave, convex, none): concave Slope %: 0-3
 Subregion (LRR or MLRA): LRR L Lat: 43.07554902 Long: -75.12062294 Datum: WGS 84
 Soil Map Unit Name: Cut and Fill Land (CU) NWI classification: PEM/PSS

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil X, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No _____ Hydric Soil Present? Yes <u>X</u> No _____ Wetland Hydrology Present? Yes <u>X</u> No _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____ If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.)	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> _____ Surface Water (A1) _____ Water-Stained Leaves (B9) _____ High Water Table (A2) _____ Aquatic Fauna (B13) <u>X</u> Saturation (A3) _____ Marl Deposits (B15) _____ Water Marks (B1) _____ Hydrogen Sulfide Odor (C1) _____ Sediment Deposits (B2) _____ Oxidized Rhizospheres on Living Roots (C3) _____ Drift Deposits (B3) _____ Presence of Reduced Iron (C4) _____ Algal Mat or Crust (B4) _____ Recent Iron Reduction in Tilled Soils (C6) _____ Iron Deposits (B5) _____ Thin Muck Surface (C7) _____ Inundation Visible on Aerial Imagery (B7) _____ Other (Explain in Remarks) _____ Sparsely Vegetated Concave Surface (B8)		<u>Secondary Indicators (minimum of two required)</u> _____ Surface Soil Cracks (B6) <u>X</u> Drainage Patterns (B10) _____ Moss Trim Lines (B16) _____ Dry-Season Water Table (C2) _____ Crayfish Burrows (C8) _____ Saturation Visible on Aerial Imagery (C9) _____ Stunted or Stressed Plants (D1) <u>X</u> Geomorphic Position (D2) _____ Shallow Aquitard (D3) _____ Microtopographic Relief (D4) <u>X</u> FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes _____ No _____ Depth (inches): _____ Water Table Present? Yes _____ No _____ Depth (inches): _____ Saturation Present? Yes <u>X</u> No _____ Depth (inches): <u>6</u> (includes capillary fringe)	Wetland Hydrology Present? Yes <u>X</u> No _____	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: Isolated depression located at toe of slope with RR tracks, north of westernmost ag field, just east of access road across tracks		

VEGETATION – Use scientific names of plants.

 Sampling Point: W6-Wet-1

Tree Stratum (Plot size: <u>15 by 30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u>Ulmus americana</u>			FACW	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>5</u> (A) Total Number of Dominant Species Across All Strata: <u>5</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)																
2. <u>Ostrya virginiana</u>			FACU																	
3. <u>Fraxinus pennsylvanica</u>			FACW																	
4. <u>Salix alba</u>			FACW																	
5. <u>Acer rubrum</u>	40	Yes	FAC																	
6. <u>Acer saccharinum</u>			FACW																	
7. <u>Alnus glutinosa</u>			FACW																	
	40	=Total Cover		Prevalence Index worksheet: <table style="width: 100%;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species</td> <td>x 1 =</td> </tr> <tr> <td>FACW species</td> <td>x 2 =</td> </tr> <tr> <td>FAC species</td> <td>x 3 =</td> </tr> <tr> <td>FACU species</td> <td>x 4 =</td> </tr> <tr> <td>UPL species</td> <td>x 5 =</td> </tr> <tr> <td>Column Totals:</td> <td>(A) (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A =</td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species	x 1 =	FACW species	x 2 =	FAC species	x 3 =	FACU species	x 4 =	UPL species	x 5 =	Column Totals:	(A) (B)	Prevalence Index = B/A =	
Total % Cover of:	Multiply by:																			
OBL species	x 1 =																			
FACW species	x 2 =																			
FAC species	x 3 =																			
FACU species	x 4 =																			
UPL species	x 5 =																			
Column Totals:	(A) (B)																			
Prevalence Index = B/A =																				
Sapling/Shrub Stratum (Plot size: <u>15 by 20'</u>)																				
1. <u>Cornus sericea</u>			FACW																	
2. <u>Acer rubrum</u>			FAC																	
3. <u>Fraxinus pennsylvanica</u>			FACW																	
4. <u>Lonicera tatarica</u>			FACU																	
5. <u>Salix alba</u>	15	Yes	FACW																	
6. <u>Alnus glutinosa</u>			FACW																	
7. <u>Populus deltoides</u>	15	Yes	FAC																	
	30	=Total Cover		Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>X</u> 2 - Dominance Test is >50% <u>3</u> - Prevalence Index is ≤3.0 ¹ <u>4</u> - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
Herb Stratum (Plot size: <u>10 by 15'</u>)																				
1. <u>Phragmites australis</u>	70	Yes	FACW																	
2. <u>Phalaris arundinacea</u>			FACW																	
3. <u>Artemisia vulgaris</u>	10	No	FACW																	
4. <u>Onoclea sensibilis</u>			FACW																	
5. <u>Typha angustifolia</u>			OBL																	
6. <u>Impatiens capensis</u>			FACW																	
7. <u>Urtica dioica</u>			FAC																	
8. <u>Geranium bicknellii</u>			FACW																	
9. <u>Iris versicolor</u>			FACW																	
10. <u>Equisetum arvense</u>			FACW																	
11. <u>Equisetum hyemale</u>			FACW																	
12. <u>Toxicodendron radicans</u>			FAC																	
	80	=Total Cover		Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.																
Woody Vine Stratum (Plot size: <u> </u>)																				
1. <u>Vitis riparia</u>	5	Yes	FAC																	
2. <u> </u>																				
3. <u> </u>																				
4. <u> </u>																				
	5	=Total Cover		Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>																

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point W6-Wet-1

[illegible]

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Mohawk SA City/County: Herkimer Sampling Date: 10/11/19
 Applicant/Owner: The Wetlands Trust, Inc. State: NY Sampling Point: W6-Up-1
 Investigator(s): Colin Diehl/Travis Money Section, Township, Range: Town of Schuyler
 Landform (hillside, terrace, etc.): none Local relief (concave, convex, none): convex Slope %: 0-3
 Subregion (LRR or MLRA): LRR L Lat: 43.07549587 Long: -75.12060865 Datum: WGS 84
 Soil Map Unit Name: Cut and Fill Land (CU) NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u> If yes, optional Wetland Site ID: _____
Hydric Soil Present? Yes _____ No <u>X</u>	
Wetland Hydrology Present? Yes _____ No <u>X</u>	
Remarks: (Explain alternative procedures here or in a separate report.)	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> _____ Surface Water (A1) _____ Water-Stained Leaves (B9) _____ High Water Table (A2) _____ Aquatic Fauna (B13) _____ Saturation (A3) _____ Marl Deposits (B15) _____ Water Marks (B1) _____ Hydrogen Sulfide Odor (C1) _____ Sediment Deposits (B2) _____ Oxidized Rhizospheres on Living Roots (C3) _____ Drift Deposits (B3) _____ Presence of Reduced Iron (C4) _____ Algal Mat or Crust (B4) _____ Recent Iron Reduction in Tilled Soils (C6) _____ Iron Deposits (B5) _____ Thin Muck Surface (C7) _____ Inundation Visible on Aerial Imagery (B7) _____ Other (Explain in Remarks) _____ Sparsely Vegetated Concave Surface (B8)		<u>Secondary Indicators (minimum of two required)</u> _____ Surface Soil Cracks (B6) _____ Drainage Patterns (B10) _____ Moss Trim Lines (B16) _____ Dry-Season Water Table (C2) _____ Crayfish Burrows (C8) _____ Saturation Visible on Aerial Imagery (C9) _____ Stunted or Stressed Plants (D1) _____ Geomorphic Position (D2) _____ Shallow Aquitard (D3) _____ Microtopographic Relief (D4) _____ FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present? Yes _____ No <u>X</u> Depth (inches): _____ Saturation Present? Yes _____ No <u>X</u> Depth (inches): _____ (includes capillary fringe)		Wetland Hydrology Present? Yes _____ No <u>X</u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks: along northern edge of westernmost ag field near rail line crossing		

VEGETATION – Use scientific names of plants.

 Sampling Point: W6-Up-1

Tree Stratum (Plot size: <u>15 by 30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u>Rhamnus cathartica</u>			FACU	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>6</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>16.7%</u> (A/B)																
2. <u>Crataegus monogyna</u>			FACU																	
3. <u>Platanus occidentalis</u>			FACU																	
4. <u>Acer rubrum</u>			FAC																	
5. <u>Fraxinus americana</u>			FACU																	
6. <u>Acer saccharum</u>			FACU																	
7. <u>Acer negundo</u>			FAC																	
			=Total Cover																	
Sapling/Shrub Stratum (Plot size: <u>15 by 20'</u>)																				
1. <u>Rhamnus cathartica</u>			FAC	Prevalence Index worksheet: <table style="width: 100%;"> <tr> <th style="width: 40%;">Total % Cover of:</th> <th style="width: 60%;">Multiply by:</th> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>15</u></td> <td>x 2 = <u>30</u></td> </tr> <tr> <td>FAC species <u>0</u></td> <td>x 3 = <u>0</u></td> </tr> <tr> <td>FACU species <u>50</u></td> <td>x 4 = <u>200</u></td> </tr> <tr> <td>UPL species <u>10</u></td> <td>x 5 = <u>50</u></td> </tr> <tr> <td>Column Totals: <u>75</u> (A)</td> <td><u>280</u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = <u>3.73</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>15</u>	x 2 = <u>30</u>	FAC species <u>0</u>	x 3 = <u>0</u>	FACU species <u>50</u>	x 4 = <u>200</u>	UPL species <u>10</u>	x 5 = <u>50</u>	Column Totals: <u>75</u> (A)	<u>280</u> (B)	Prevalence Index = B/A = <u>3.73</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>0</u>	x 1 = <u>0</u>																			
FACW species <u>15</u>	x 2 = <u>30</u>																			
FAC species <u>0</u>	x 3 = <u>0</u>																			
FACU species <u>50</u>	x 4 = <u>200</u>																			
UPL species <u>10</u>	x 5 = <u>50</u>																			
Column Totals: <u>75</u> (A)	<u>280</u> (B)																			
Prevalence Index = B/A = <u>3.73</u>																				
2. <u>Lonicera tatarica</u>			FACU																	
3. <u>Fraxinus americana</u>			FACU																	
4. _____																				
5. <u>Acer saccharum</u>			FACU																	
6. <u>Lindera benzoin</u>			FACW																	
7. <u>Rosa multiflora</u>			FACU																	
			=Total Cover																	
Herb Stratum (Plot size: <u>10 by 15'</u>)																				
1. <u>Urtica dioica</u>			FAC	Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>2</u> - Dominance Test is >50% <u>3</u> - Prevalence Index is ≤3.0 ¹ <u>4</u> - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2. <u>Toxicodendron radicans</u>			UPL																	
3. <u>Plantago major</u>	15	Yes	FACU																	
4. <u>Phalaris arundinacea</u>			FAC																	
5. <u>Phragmites australis</u>	15	Yes	FACW																	
6. <u>Solidago canadensis</u>	10	Yes	FACU																	
7. <u>Artemisia vulgaris</u>	10	Yes	UPL																	
8. <u>Trifolium repens</u>	10	Yes	FACU																	
9. <u>Dactylis glomerata</u>	10	Yes	FACU																	
10. <u>Parthenocissus quinquefolia</u>			FACU																	
11. <u>Taraxacum officinale</u>	5	No	FACU																	
12. <u>Daucus carota</u>			UPL																	
			75 =Total Cover																	
Woody Vine Stratum (Plot size: _____)																				
1. _____				Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.																
2. _____																				
3. _____																				
4. _____																				
			=Total Cover	Hydrophytic Vegetation Present? Yes <u> </u> No <u> X </u>																

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point W6-Up-1

[illegible]

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Mohawk SA City/County: Herkimer Sampling Date: 10/21/19
 Applicant/Owner: The Wetlands Trust, Inc. State: NY Sampling Point: W7-Wet-1
 Investigator(s): Colin Diehl/Travis Money Section, Township, Range: Town of Schuyler
 Landform (hillside, terrace, etc.): _____ Local relief (concave, convex, none): none Slope %: 0-3
 Subregion (LRR or MLRA): LRR L Lat: 43.006796166 Long: -75.1103389 Datum: WGS 84
 Soil Map Unit Name: Wayland Soils Complex (Wd) NWI classification: PFO

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No _____ Hydric Soil Present? Yes <u>X</u> No _____ Wetland Hydrology Present? Yes <u>X</u> No _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____ If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.)	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <input checked="" type="checkbox"/> Surface Water (A1) <input checked="" type="checkbox"/> High Water Table (A2) <input checked="" type="checkbox"/> Saturation (A3) <input checked="" type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) </div> <div style="width: 45%;"> <input checked="" type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Other (Explain in Remarks) </div> </div>		<u>Secondary Indicators (minimum of two required)</u> <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input checked="" type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input checked="" type="checkbox"/> FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes <u>X</u> No _____ Depth (inches): <u>2</u> Water Table Present? Yes <u>X</u> No _____ Depth (inches): _____ Saturation Present? Yes <u>X</u> No _____ Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes <u>X</u> No _____	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: At toe of slope along northern property limit - unclear due to permission to be on adjacent landowner parcel if this wetland represents the western edge of NYSDEC Wetland IN-1 or not.		

Sampling Point: W7-Wet-1

Tree Stratum (Plot size: 15 by 30')		Absolute % Cover	Dominant Species?	Indicator Status
1.	<i>Ulmus americana</i>	25	Yes	FACW
2.	<i>Ostrya virginiana</i>			FACU
3.	<i>Fraxinus pennsylvanica</i>	60	Yes	FACW
4.	<i>Salix alba</i>			FACW
5.	<i>Acer rubrum</i>	3	No	FAC
6.	<i>Acer saccharinum</i>			FACW
7.	<i>Alnus glutinosa</i>			FACW
		88	=Total Cover	
Sapling/Shrub Stratum (Plot size: 15 by 20')				
1.	<i>Cornus sericea</i>			FACW
2.	<i>Acer rubrum</i>			FAC
3.	<i>Fraxinus pennsylvanica</i>			FACW
4.	<i>Lonicera tatarica</i>			FACU
5.	<i>Salix alba</i>			FACW
6.	<i>Alnus glutinosa</i>			FACW
7.	<i>Populus deltoides</i>			FAC
			=Total Cover	
Herb Stratum (Plot size: 10 by 15')				
1.	<i>Phragmites australis</i>			FACW
2.	<i>Phalaris arundinacea</i>			FACW
3.	<i>Artemisia vulgaris</i>			FACW
4.	<i>Onoclea sensibilis</i>			FACW
5.	<i>Typha angustifolia</i>			OBL
6.	<i>Impatiens capensis</i>	20	Yes	FACW
7.	<i>Urtica dioica</i>	35	Yes	FAC
8.	<i>Geranium bicknellii</i>			FACW
9.	<i>Iris versicolor</i>			FACW
10.	<i>Equisetum arvense</i>			FACW
11.	<i>Equisetum hyemale</i>			FACW
12.	<i>Toxicodendron radicans</i>			FAC
		55	=Total Cover	
Woody Vine Stratum (Plot size:)				
1.	<i>Vitis riparia</i>	15	Yes	FAC
2.				
3.				
4.				
		15	=Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 5 (A)

Total Number of Dominant Species Across All Strata: 5 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species	x 1 =
FACW species	x 2 =
FAC species	x 3 =
FACU species	x 4 =
UPL species	x 5 =
Column Totals:	(A) (B)

Prevalence Index = B/A =

Hydrophytic Vegetation Indicators:

1 - Rapid Test for Hydrophytic Vegetation

X 2 - Dominance Test is >50%

3 - Prevalence Index is ≤3.0¹

4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes X No

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point W7-Wet-1

[illegible]

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Mohawk SA City/County: Herkimer Sampling Date: 10/21/19
Applicant/Owner: The Wetlands Trust, Inc. State: NY Sampling Point: W7-Up-1
Investigator(s): Colin Diehl/Travis Money Section, Township, Range: Town of Schuyler
Landform (hillside, terrace, etc.): hillside Local relief (concave, convex, none): convex Slope %: 0-3
Subregion (LRR or MLRA): LRR L Lat: 43.06806491 Long: -75.11028259 Datum: WGS 84
Soil Map Unit Name: Wayland Soils Complex (Wd) NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u> If yes, optional Wetland Site ID: _____
Hydric Soil Present? Yes _____ No <u>X</u>	
Wetland Hydrology Present? Yes _____ No <u>X</u>	
Remarks: (Explain alternative procedures here or in a separate report.)	

HYDROLOGY

Wetland Hydrology Indicators:		<u>Secondary Indicators (minimum of two required)</u>	
<u>Primary Indicators (minimum of one is required; check all that apply)</u>			
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)	
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)	
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)	
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)	
		<input type="checkbox"/> FAC-Neutral Test (D5)	
Field Observations:			
Surface Water Present? Yes _____ No <u>X</u>	Depth (inches): _____	Wetland Hydrology Present? Yes _____ No <u>X</u>	
Water Table Present? Yes _____ No <u>X</u>	Depth (inches): _____		
Saturation Present? Yes _____ No <u>X</u>	Depth (inches): _____ (includes capillary fringe)		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks: upslope/hillside from edge of Wetland W7/W7-Wet-1 sampling point			

VEGETATION – Use scientific names of plants.

 Sampling Point: W7-Up-1

Tree Stratum (Plot size: <u>15 by 30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u>Rhamnus cathartica</u>	<u>15</u>	<u>Yes</u>	<u>FACU</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>5</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>40.0%</u> (A/B) Prevalence Index worksheet: <table style="width: 100%;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>0</u></td> <td>x 2 = <u>0</u></td> </tr> <tr> <td>FAC species <u>30</u></td> <td>x 3 = <u>90</u></td> </tr> <tr> <td>FACU species <u>55</u></td> <td>x 4 = <u>220</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>85</u></td> <td>(A) <u>310</u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = <u>3.65</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>0</u>	x 2 = <u>0</u>	FAC species <u>30</u>	x 3 = <u>90</u>	FACU species <u>55</u>	x 4 = <u>220</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>85</u>	(A) <u>310</u> (B)	Prevalence Index = B/A = <u>3.65</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>0</u>	x 1 = <u>0</u>																			
FACW species <u>0</u>	x 2 = <u>0</u>																			
FAC species <u>30</u>	x 3 = <u>90</u>																			
FACU species <u>55</u>	x 4 = <u>220</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals: <u>85</u>	(A) <u>310</u> (B)																			
Prevalence Index = B/A = <u>3.65</u>																				
2. <u>Crataegus monogyna</u>			<u>FACU</u>																	
3. <u>Platanus occidentalis</u>			<u>FACU</u>																	
4. <u>Carya glabra</u>	<u>35</u>	<u>Yes</u>	<u>FACU</u>																	
5. <u>Fraxinus americana</u>			<u>FACU</u>																	
6. <u>Populus deltoides</u>	<u>15</u>	<u>Yes</u>	<u>FAC</u>																	
7. <u>Acer negundo</u>			<u>FAC</u>																	
	<u>65</u>	=Total Cover																		
Sapling/Shrub Stratum (Plot size: <u>15 by 20'</u>)																				
1. <u>Rhamnus cathartica</u>	<u>15</u>	<u>Yes</u>	<u>FAC</u>	Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>2</u> - Dominance Test is >50% <u>3</u> - Prevalence Index is ≤3.0 ¹ <u>4</u> - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2. <u>Lonicera tatarica</u>			<u>FACU</u>																	
3. <u>Fraxinus americana</u>			<u>FACU</u>																	
4. <u> </u>																				
5. <u>Acer saccharum</u>			<u>FACU</u>																	
6. <u>Lindera benzoin</u>			<u>FACW</u>																	
7. <u>Rosa multiflora</u>			<u>FACU</u>																	
	<u>15</u>	=Total Cover																		
Herb Stratum (Plot size: <u>10 by 15'</u>)																				
1. <u>Urtica dioica</u>			<u>FAC</u>	Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes <u> </u> No <u> X </u>																
2. <u>Toxicodendron radicans</u>			<u>UPL</u>																	
3. <u>Plantago major</u>			<u>FACU</u>																	
4. <u>Phalaris arundinacea</u>			<u>FAC</u>																	
5. <u>Phragmites australis</u>			<u>FACW</u>																	
6. <u>Solidago canadensis</u>			<u>FACU</u>																	
7. <u>Artemisia vulgaris</u>			<u>UPL</u>																	
8. <u>Trifolium repens</u>			<u>FACU</u>																	
9. <u>Dactylis glomerata</u>			<u>FACU</u>																	
10. <u>Parthenocissus quinquefolia</u>	<u>5</u>	<u>Yes</u>	<u>FACU</u>																	
11. <u>Taraxacum officinale</u>			<u>FACU</u>																	
12. <u>Daucus carota</u>			<u>UPL</u>																	
	<u>5</u>	=Total Cover																		
Woody Vine Stratum (Plot size: <u> </u>)																				
1. <u> </u>																				
2. <u> </u>																				
3. <u> </u>																				
4. <u> </u>																				
		=Total Cover																		

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point W7-Up-1

[illegible]

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Mohawk SA City/County: Herkimer Sampling Date: 10/21/19
 Applicant/Owner: The Wetlands Trust, Inc. State: NY Sampling Point: W7-Wet-2
 Investigator(s): Colin Diehl/Travis Money Section, Township, Range: Town of Schuyler
 Landform (hillside, terrace, etc.): historical streambed/ditchline Local relief (concave, convex, none): concave Slope %: 0-3
 Subregion (LRR or MLRA): LRR L Lat: 43.06728856 Long: -75.11060008 Datum: WGS 84
 Soil Map Unit Name: Wayland Soils Complex (Wd) NWI classification: PFO/PEM

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u> Hydric Soil Present? Yes <u>X</u> No <u> </u> Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u> If yes, optional Wetland Site ID: <u> </u>
Remarks: (Explain alternative procedures here or in a separate report.)	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <u>X</u> Surface Water (A1) <u>X</u> High Water Table (A2) <u>X</u> Saturation (A3) <u> </u> Water Marks (B1) <u> </u> Sediment Deposits (B2) <u> </u> Drift Deposits (B3) <u> </u> Algal Mat or Crust (B4) <u> </u> Iron Deposits (B5) <u> </u> Inundation Visible on Aerial Imagery (B7) <u> </u> Sparsely Vegetated Concave Surface (B8) </div> <div style="width: 50%;"> <u>X</u> Water-Stained Leaves (B9) <u>X</u> Aquatic Fauna (B13) <u> </u> Marl Deposits (B15) <u> </u> Hydrogen Sulfide Odor (C1) <u> </u> Oxidized Rhizospheres on Living Roots (C3) <u> </u> Presence of Reduced Iron (C4) <u> </u> Recent Iron Reduction in Tilled Soils (C6) <u> </u> Thin Muck Surface (C7) <u> </u> Other (Explain in Remarks) </div> </div>	<u>Secondary Indicators (minimum of two required)</u> <u> </u> Surface Soil Cracks (B6) <u>X</u> Drainage Patterns (B10) <u> </u> Moss Trim Lines (B16) <u> </u> Dry-Season Water Table (C2) <u> </u> Crayfish Burrows (C8) <u> </u> Saturation Visible on Aerial Imagery (C9) <u> </u> Stunted or Stressed Plants (D1) <u>X</u> Geomorphic Position (D2) <u> </u> Shallow Aquitard (D3) <u> </u> Microtopographic Relief (D4) <u>X</u> FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes <u>X</u> No <u> </u> Depth (inches): <u>2</u> Water Table Present? Yes <u>X</u> No <u> </u> Depth (inches): <u> </u> Saturation Present? Yes <u>X</u> No <u> </u> Depth (inches): <u> </u> (includes capillary fringe)	Wetland Hydrology Present? Yes <u>X</u> No <u> </u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks: within historical stream channel/ditchline of Wetland W7 wetland complex	

VEGETATION – Use scientific names of plants.

 Sampling Point: W7-Wet-2

Tree Stratum (Plot size: <u>15 by 30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u>Ulmus americana</u>	<u>5</u>	<u>No</u>	<u>FACW</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>4</u> (A) Total Number of Dominant Species Across All Strata: <u>5</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>80.0%</u> (A/B)																
2. <u>Ostrya virginiana</u>			<u>FACU</u>																	
3. <u>Fraxinus pennsylvanica</u>	<u>35</u>	<u>Yes</u>	<u>FACW</u>																	
4. <u>Salix alba</u>			<u>FACW</u>																	
5. <u>Acer rubrum</u>	<u>5</u>	<u>No</u>	<u>FAC</u>																	
6. <u>Acer saccharinum</u>			<u>FACW</u>																	
7. <u>Alnus glutinosa</u>			<u>FACW</u>																	
	<u>45</u>	=Total Cover		Prevalence Index worksheet: <table style="width: 100%;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species _____</td> <td>x 1 = _____</td> </tr> <tr> <td>FACW species _____</td> <td>x 2 = _____</td> </tr> <tr> <td>FAC species _____</td> <td>x 3 = _____</td> </tr> <tr> <td>FACU species _____</td> <td>x 4 = _____</td> </tr> <tr> <td>UPL species _____</td> <td>x 5 = _____</td> </tr> <tr> <td>Column Totals: _____</td> <td>(A) _____ (B) _____</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = _____</td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species _____	x 1 = _____	FACW species _____	x 2 = _____	FAC species _____	x 3 = _____	FACU species _____	x 4 = _____	UPL species _____	x 5 = _____	Column Totals: _____	(A) _____ (B) _____	Prevalence Index = B/A = _____	
Total % Cover of:	Multiply by:																			
OBL species _____	x 1 = _____																			
FACW species _____	x 2 = _____																			
FAC species _____	x 3 = _____																			
FACU species _____	x 4 = _____																			
UPL species _____	x 5 = _____																			
Column Totals: _____	(A) _____ (B) _____																			
Prevalence Index = B/A = _____																				
Sapling/Shrub Stratum (Plot size: <u>15 by 20'</u>)																				
1. <u>Cornus sericea</u>			<u>FACW</u>																	
2. <u>Acer rubrum</u>			<u>FAC</u>																	
3. <u>Fraxinus pennsylvanica</u>			<u>FACW</u>																	
4. <u>Lonicera tatarica</u>	<u>5</u>	<u>Yes</u>	<u>FACU</u>																	
5. <u>Salix alba</u>			<u>FACW</u>																	
6. <u>Alnus glutinosa</u>			<u>FACW</u>																	
7. <u>Populus deltoides</u>			<u>FAC</u>																	
	<u>5</u>	=Total Cover		Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>X</u> 2 - Dominance Test is >50% <u>3</u> - Prevalence Index is ≤3.0 ¹ <u>4</u> - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
Herb Stratum (Plot size: <u>10 by 15'</u>)																				
1. <u>Phragmites australis</u>			<u>FACW</u>																	
2. <u>Phalaris arundinacea</u>			<u>FACW</u>																	
3. <u>Artemisia vulgaris</u>			<u>FACW</u>																	
4. <u>Onoclea sensibilis</u>	<u>20</u>	<u>Yes</u>	<u>FACW</u>																	
5. <u>Typha angustifolia</u>			<u>OBL</u>																	
6. <u>Impatiens capensis</u>	<u>40</u>	<u>Yes</u>	<u>FACW</u>																	
7. <u>Urtica dioica</u>	<u>20</u>	<u>Yes</u>	<u>FAC</u>																	
8. <u>Geranium bicknellii</u>	<u>5</u>	<u>No</u>	<u>FACW</u>																	
9. <u>Iris versicolor</u>			<u>FACW</u>																	
10. <u>Equisetum arvense</u>			<u>FACW</u>																	
11. <u>Equisetum hyemale</u>			<u>FACW</u>																	
12. <u>Toxicodendron radicans</u>			<u>FAC</u>																	
	<u>85</u>	=Total Cover		Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.																
Woody Vine Stratum (Plot size: _____)																				
1. <u>Vitis riparia</u>			<u>FAC</u>																	
2. _____																				
3. _____																				
4. _____																				
		=Total Cover		Hydrophytic Vegetation Present? Yes <u>X</u> No _____																

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point W7-Wet-2

[illegible]

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Mohawk SA City/County: Herkimer Sampling Date: 10/21/19
 Applicant/Owner: The Wetlands Trust, Inc. State: NY Sampling Point: W7-Up-2
 Investigator(s): Colin Diehl/Travis Money Section, Township, Range: Town of Schuyler
 Landform (hillside, terrace, etc.): hillside Local relief (concave, convex, none): convex Slope %: 0-3
 Subregion (LRR or MLRA): LRR L Lat: 43.06738393 Long: -75.11053483 Datum: WGS 84
 Soil Map Unit Name: Wayland Soils Complex (Wd) NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <u>X</u> Hydric Soil Present? Yes _____ No <u>X</u> Wetland Hydrology Present? Yes _____ No <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u> If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.)	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> _____ Surface Water (A1) _____ Water-Stained Leaves (B9) _____ High Water Table (A2) _____ Aquatic Fauna (B13) _____ Saturation (A3) _____ Marl Deposits (B15) _____ Water Marks (B1) _____ Hydrogen Sulfide Odor (C1) _____ Sediment Deposits (B2) _____ Oxidized Rhizospheres on Living Roots (C3) _____ Drift Deposits (B3) _____ Presence of Reduced Iron (C4) _____ Algal Mat or Crust (B4) _____ Recent Iron Reduction in Tilled Soils (C6) _____ Iron Deposits (B5) _____ Thin Muck Surface (C7) _____ Inundation Visible on Aerial Imagery (B7) _____ Other (Explain in Remarks) _____ Sparsely Vegetated Concave Surface (B8)	<u>Secondary Indicators (minimum of two required)</u> _____ Surface Soil Cracks (B6) _____ Drainage Patterns (B10) _____ Moss Trim Lines (B16) _____ Dry-Season Water Table (C2) _____ Crayfish Burrows (C8) _____ Saturation Visible on Aerial Imagery (C9) _____ Stunted or Stressed Plants (D1) _____ Geomorphic Position (D2) _____ Shallow Aquitard (D3) _____ Microtopographic Relief (D4) _____ FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present? Yes _____ No <u>X</u> Depth (inches): _____ Saturation Present? Yes _____ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No <u>X</u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: upslope from edge of Wetland W7/W7-Wet-2 sampling point	

VEGETATION – Use scientific names of plants.

 Sampling Point: W7-Up-2

Tree Stratum (Plot size: <u>15 by 30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u>Rhamnus cathartica</u>			FACU	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>6</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>16.7%</u> (A/B)																
2. <u>Crataegus monogyna</u>			FACU																	
3. <u>Tilia americana</u>	50	Yes	FACU																	
4. <u>Carya glabra</u>			FACU																	
5. <u>Fraxinus americana</u>			FACU																	
6. <u>Populus deltoides</u>			FAC																	
7. <u>Acer negundo</u>			FAC																	
	50	=Total Cover																		
Sapling/Shrub Stratum (Plot size: <u>15 by 20'</u>)																				
1. <u>Rhamnus cathartica</u>	15	Yes	FAC	Prevalence Index worksheet: <table style="width: 100%;"> <tr> <th style="width: 50%;">Total % Cover of:</th> <th style="width: 50%;">Multiply by:</th> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>0</u></td> <td>x 2 = <u>0</u></td> </tr> <tr> <td>FAC species <u>15</u></td> <td>x 3 = <u>45</u></td> </tr> <tr> <td>FACU species <u>80</u></td> <td>x 4 = <u>320</u></td> </tr> <tr> <td>UPL species <u>25</u></td> <td>x 5 = <u>125</u></td> </tr> <tr> <td>Column Totals: <u>120</u> (A)</td> <td><u>490</u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = <u>4.08</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>0</u>	x 2 = <u>0</u>	FAC species <u>15</u>	x 3 = <u>45</u>	FACU species <u>80</u>	x 4 = <u>320</u>	UPL species <u>25</u>	x 5 = <u>125</u>	Column Totals: <u>120</u> (A)	<u>490</u> (B)	Prevalence Index = B/A = <u>4.08</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>0</u>	x 1 = <u>0</u>																			
FACW species <u>0</u>	x 2 = <u>0</u>																			
FAC species <u>15</u>	x 3 = <u>45</u>																			
FACU species <u>80</u>	x 4 = <u>320</u>																			
UPL species <u>25</u>	x 5 = <u>125</u>																			
Column Totals: <u>120</u> (A)	<u>490</u> (B)																			
Prevalence Index = B/A = <u>4.08</u>																				
2. <u>Lonicera tatarica</u>			FACU																	
3. <u>Fraxinus americana</u>	15	Yes	FACU																	
4. _____																				
5. <u>Acer saccharum</u>			FACU																	
6. <u>Lindera benzoin</u>			FACW																	
7. <u>Rosa multiflora</u>			FACU																	
	30	=Total Cover																		
Herb Stratum (Plot size: <u>10 by 15'</u>)																				
1. <u>Urtica dioica</u>			FAC	Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>2</u> - Dominance Test is >50% <u>3</u> - Prevalence Index is ≤3.0 ¹ <u>4</u> - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2. <u>Toxicodendron radicans</u>	10	Yes	UPL																	
3. <u>Plantago major</u>			FACU																	
4. <u>Phalaris arundinacea</u>			FAC																	
5. <u>Phragmites australis</u>			FACW																	
6. <u>Solidago canadensis</u>			FACU																	
7. <u>Artemisia vulgaris</u>	15	Yes	UPL																	
8. <u>Trifolium repens</u>			FACU																	
9. <u>Dactylis glomerata</u>			FACU																	
10. <u>Parthenocissus quinquefolia</u>			FACU																	
11. <u>Taraxacum officinale</u>			FACU																	
12. <u>Alliaria petiolata</u>	15	Yes	FACU																	
	40	=Total Cover																		
Woody Vine Stratum (Plot size: _____)																				
1. _____				Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.																
2. _____																				
3. _____																				
4. _____																				
		=Total Cover																		

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point W7-Up-2

[illegible]

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Mohawk SA City/County: Herkimer Sampling Date: 10/21/19
 Applicant/Owner: The Wetlands Trust, Inc. State: NY Sampling Point: W7-Wet-3
 Investigator(s): Colin Diehl/Travis Money Section, Township, Range: Town of Schuyler
 Landform (hillside, terrace, etc.): ditchline in hedgerow Local relief (concave, convex, none): concave Slope %: 0-3
 Subregion (LRR or MLRA): LRR L Lat: 43.06788293 Long: -75.11349215 Datum: WGS 84
 Soil Map Unit Name: Wayland Soils Complex (Wd) NWI classification: PFO

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u> Hydric Soil Present? Yes <u>X</u> No <u> </u> Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u> If yes, optional Wetland Site ID: <u> </u>
Remarks: (Explain alternative procedures here or in a separate report.)	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> <input checked="" type="checkbox"/> Surface Water (A1) <input checked="" type="checkbox"/> Water-Stained Leaves (B9) <input checked="" type="checkbox"/> High Water Table (A2) <input checked="" type="checkbox"/> Aquatic Fauna (B13) <input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<u>Secondary Indicators (minimum of two required)</u> <input type="checkbox"/> Surface Soil Cracks (B6) <input checked="" type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input checked="" type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input checked="" type="checkbox"/> FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes <u>X</u> No <u> </u> Depth (inches): <u>1</u> Water Table Present? Yes <u>X</u> No <u> </u> Depth (inches): <u> </u> Saturation Present? Yes <u>X</u> No <u> </u> Depth (inches): <u> </u> (includes capillary fringe)	Wetland Hydrology Present? Yes <u>X</u> No <u> </u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: ditchline within easternmost hedgerow of Wetland W7 wetland complex	

VEGETATION – Use scientific names of plants.

 Sampling Point: W7-Wet-3

Tree Stratum (Plot size: <u>15 by 30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u>Ulmus americana</u>	<u>20</u>	<u>Yes</u>	<u>FACW</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>5</u> (A) Total Number of Dominant Species Across All Strata: <u>6</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>83.3%</u> (A/B)																
2. <u>Ostrya virginiana</u>			<u>FACU</u>																	
3. <u>Fraxinus pennsylvanica</u>	<u>40</u>	<u>Yes</u>	<u>FACW</u>																	
4. <u>Salix alba</u>			<u>FACW</u>																	
5. <u>Acer rubrum</u>			<u>FAC</u>																	
6. <u>Acer saccharinum</u>			<u>FACW</u>																	
7. <u>Alnus glutinosa</u>			<u>FACW</u>																	
	<u>60</u>	=Total Cover		Prevalence Index worksheet: <table style="width: 100%;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species <u> </u></td> <td>x 1 = <u> </u></td> </tr> <tr> <td>FACW species <u> </u></td> <td>x 2 = <u> </u></td> </tr> <tr> <td>FAC species <u> </u></td> <td>x 3 = <u> </u></td> </tr> <tr> <td>FACU species <u> </u></td> <td>x 4 = <u> </u></td> </tr> <tr> <td>UPL species <u> </u></td> <td>x 5 = <u> </u></td> </tr> <tr> <td>Column Totals: <u> </u></td> <td>(A) <u> </u> (B) <u> </u></td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = <u> </u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u> </u>	x 1 = <u> </u>	FACW species <u> </u>	x 2 = <u> </u>	FAC species <u> </u>	x 3 = <u> </u>	FACU species <u> </u>	x 4 = <u> </u>	UPL species <u> </u>	x 5 = <u> </u>	Column Totals: <u> </u>	(A) <u> </u> (B) <u> </u>	Prevalence Index = B/A = <u> </u>	
Total % Cover of:	Multiply by:																			
OBL species <u> </u>	x 1 = <u> </u>																			
FACW species <u> </u>	x 2 = <u> </u>																			
FAC species <u> </u>	x 3 = <u> </u>																			
FACU species <u> </u>	x 4 = <u> </u>																			
UPL species <u> </u>	x 5 = <u> </u>																			
Column Totals: <u> </u>	(A) <u> </u> (B) <u> </u>																			
Prevalence Index = B/A = <u> </u>																				
Sapling/Shrub Stratum (Plot size: <u>15 by 20'</u>)				Hydrophytic Vegetation Indicators: <u> </u> 1 - Rapid Test for Hydrophytic Vegetation <u> X </u> 2 - Dominance Test is >50% <u> </u> 3 - Prevalence Index is ≤3.0 ¹ <u> </u> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
1. <u>Cornus sericea</u>			<u>FACW</u>																	
2. <u>Acer rubrum</u>			<u>FAC</u>																	
3. <u>Fraxinus pennsylvanica</u>	<u>15</u>	<u>Yes</u>	<u>FACW</u>																	
4. <u>Lonicera tatarica</u>	<u>20</u>	<u>Yes</u>	<u>FACU</u>																	
5. <u>Salix alba</u>			<u>FACW</u>																	
6. <u>Alnus glutinosa</u>			<u>FACW</u>																	
7. <u>Populus deltoides</u>			<u>FAC</u>																	
	<u>35</u>	=Total Cover		Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes <u> X </u> No <u> </u>																
Herb Stratum (Plot size: <u>10 by 15'</u>)																				
1. <u>Phragmites australis</u>			<u>FACW</u>																	
2. <u>Phalaris arundinacea</u>			<u>FACW</u>																	
3. <u>Artemisia vulgaris</u>			<u>FACW</u>																	
4. <u>Onoclea sensibilis</u>	<u>5</u>	<u>No</u>	<u>FACW</u>																	
5. <u>Typha angustifolia</u>			<u>OBL</u>																	
6. <u>Impatiens capensis</u>	<u>10</u>	<u>Yes</u>	<u>FACW</u>																	
7. <u>Urtica dioica</u>	<u>15</u>	<u>Yes</u>	<u>FAC</u>																	
8. <u>Geranium bicknellii</u>			<u>FACW</u>																	
9. <u>Iris versicolor</u>			<u>FACW</u>																	
10. <u>Equisetum arvense</u>			<u>FACW</u>																	
11. <u>Equisetum hyemale</u>			<u>FACW</u>																	
12. <u>Toxicodendron radicans</u>			<u>FAC</u>																	
	<u>30</u>	=Total Cover																		
Woody Vine Stratum (Plot size: <u> </u>)				Hydrophytic Vegetation Present? Yes <u> X </u> No <u> </u>																
1. <u>Vitis riparia</u>			<u>FAC</u>																	
2. <u> </u>																				
3. <u> </u>																				
4. <u> </u>																				
		=Total Cover																		

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point W7-Wet-3

[illegible]

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Mohawk SA City/County: Herkimer Sampling Date: 10/21/19
 Applicant/Owner: The Wetlands Trust, Inc. State: NY Sampling Point: W7-Up-3
 Investigator(s): Colin Diehl/Travis Money Section, Township, Range: Town of Schuyler
 Landform (hillside, terrace, etc.): none Local relief (concave, convex, none): _____ Slope %: 0-3
 Subregion (LRR or MLRA): LRR L Lat: 43.0674941 Long: -75.11355304 Datum: WGS 84
 Soil Map Unit Name: Wayland Soils Complex (Wd) NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u> If yes, optional Wetland Site ID: _____
Hydric Soil Present? Yes _____ No <u>X</u>	
Wetland Hydrology Present? Yes _____ No <u>X</u>	
Remarks: (Explain alternative procedures here or in a separate report.)	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> _____ Surface Water (A1) _____ Water-Stained Leaves (B9) _____ High Water Table (A2) _____ Aquatic Fauna (B13) _____ Saturation (A3) _____ Marl Deposits (B15) _____ Water Marks (B1) _____ Hydrogen Sulfide Odor (C1) _____ Sediment Deposits (B2) _____ Oxidized Rhizospheres on Living Roots (C3) _____ Drift Deposits (B3) _____ Presence of Reduced Iron (C4) _____ Algal Mat or Crust (B4) _____ Recent Iron Reduction in Tilled Soils (C6) _____ Iron Deposits (B5) _____ Thin Muck Surface (C7) _____ Inundation Visible on Aerial Imagery (B7) _____ Other (Explain in Remarks) _____ Sparsely Vegetated Concave Surface (B8)		<u>Secondary Indicators (minimum of two required)</u> _____ Surface Soil Cracks (B6) _____ Drainage Patterns (B10) _____ Moss Trim Lines (B16) _____ Dry-Season Water Table (C2) _____ Crayfish Burrows (C8) _____ Saturation Visible on Aerial Imagery (C9) _____ Stunted or Stressed Plants (D1) _____ Geomorphic Position (D2) _____ Shallow Aquitard (D3) _____ Microtopographic Relief (D4) _____ FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present? Yes _____ No <u>X</u> Depth (inches): _____ Saturation Present? Yes _____ No <u>X</u> Depth (inches): _____ (includes capillary fringe)		Wetland Hydrology Present? Yes _____ No <u>X</u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks: along ag field edge, slightly upslope from edge of Wetland W7/W7-Wet-3 sampling point		

VEGETATION – Use scientific names of plants.

 Sampling Point: W7-Up-3

Tree Stratum (Plot size: <u>15 by 30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u>Rhamnus cathartica</u>			FACU	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>4</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>25.0%</u> (A/B)																
2. <u>Crataegus monogyna</u>			FACU																	
3. <u>Tilia americana</u>			FACU																	
4. <u>Carya glabra</u>			FACU																	
5. <u>Fraxinus americana</u>	15	Yes	FACU																	
6. <u>Populus deltoides</u>			FAC																	
7. <u>Acer negundo</u>			FAC																	
	15	=Total Cover																		
Sapling/Shrub Stratum (Plot size: <u>15 by 20'</u>)																				
1. <u>Rhamnus cathartica</u>			FAC	Prevalence Index worksheet: <table style="width: 100%;"> <tr> <th style="width: 50%;">Total % Cover of:</th> <th style="width: 50%;">Multiply by:</th> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>0</u></td> <td>x 2 = <u>0</u></td> </tr> <tr> <td>FAC species <u>15</u></td> <td>x 3 = <u>45</u></td> </tr> <tr> <td>FACU species <u>40</u></td> <td>x 4 = <u>160</u></td> </tr> <tr> <td>UPL species <u>50</u></td> <td>x 5 = <u>250</u></td> </tr> <tr> <td>Column Totals: <u>105</u> (A)</td> <td><u>455</u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = <u>4.33</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>0</u>	x 2 = <u>0</u>	FAC species <u>15</u>	x 3 = <u>45</u>	FACU species <u>40</u>	x 4 = <u>160</u>	UPL species <u>50</u>	x 5 = <u>250</u>	Column Totals: <u>105</u> (A)	<u>455</u> (B)	Prevalence Index = B/A = <u>4.33</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>0</u>	x 1 = <u>0</u>																			
FACW species <u>0</u>	x 2 = <u>0</u>																			
FAC species <u>15</u>	x 3 = <u>45</u>																			
FACU species <u>40</u>	x 4 = <u>160</u>																			
UPL species <u>50</u>	x 5 = <u>250</u>																			
Column Totals: <u>105</u> (A)	<u>455</u> (B)																			
Prevalence Index = B/A = <u>4.33</u>																				
2. <u>Lonicera tatarica</u>			FACU																	
3. <u>Fraxinus americana</u>	15	Yes	FACU																	
4. _____																				
5. <u>Acer saccharum</u>			FACU																	
6. <u>Lindera benzoin</u>			FACW																	
7. <u>Rosa multiflora</u>			FACU																	
	15	=Total Cover																		
Herb Stratum (Plot size: <u>10 by 15'</u>)																				
1. <u>Urtica dioica</u>			FAC	Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>2</u> - Dominance Test is >50% <u>3</u> - Prevalence Index is ≤3.0 ¹ <u>4</u> - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2. <u>Toxicodendron radicans</u>			UPL																	
3. <u>Plantago major</u>			FACU																	
4. <u>Phalaris arundinacea</u>			FAC																	
5. <u>Phragmites australis</u>			FACW																	
6. <u>Solidago canadensis</u>	10	No	FACU																	
7. <u>Artemisia vulgaris</u>	50	Yes	UPL																	
8. <u>Trifolium repens</u>			FACU																	
9. <u>Dactylis glomerata</u>			FACU																	
10. <u>Parthenocissus quinquefolia</u>			FACU																	
11. <u>Taraxacum officinale</u>			FACU																	
12. <u>Equisetum arvense</u>	15	Yes	FAC																	
	75	=Total Cover																		
Woody Vine Stratum (Plot size: _____)																				
1. _____				Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.																
2. _____																				
3. _____																				
4. _____																				
		=Total Cover																		

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point W7-Up-3

[illegible]

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Mohawk SA City/County: Herkimer Sampling Date: 10/21/19
 Applicant/Owner: The Wetlands Trust, Inc. State: NY Sampling Point: W7-Wet-4
 Investigator(s): Colin Diehl/Travis Money Section, Township, Range: Town of Schuyler
 Landform (hillside, terrace, etc.): _____ Local relief (concave, convex, none): none Slope %: 0-3
 Subregion (LRR or MLRA): LRR L Lat: 43.06833171 Long: -75.11333847 Datum: WGS 84
 Soil Map Unit Name: Wayland Soils Complex (Wd) NWI classification: PEM

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil X, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____ If yes, optional Wetland Site ID: _____
Hydric Soil Present? Yes <u>X</u> No _____	
Wetland Hydrology Present? Yes <u>X</u> No _____	
Remarks: (Explain alternative procedures here or in a separate report.)	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> <input checked="" type="checkbox"/> Surface Water (A1) <input checked="" type="checkbox"/> Water-Stained Leaves (B9) <input checked="" type="checkbox"/> High Water Table (A2) <input checked="" type="checkbox"/> Aquatic Fauna (B13) <input checked="" type="checkbox"/> Saturation (A3) _____ Marl Deposits (B15) _____ Water Marks (B1) _____ Hydrogen Sulfide Odor (C1) _____ Sediment Deposits (B2) _____ Oxidized Rhizospheres on Living Roots (C3) _____ Drift Deposits (B3) _____ Presence of Reduced Iron (C4) _____ Algal Mat or Crust (B4) _____ Recent Iron Reduction in Tilled Soils (C6) _____ Iron Deposits (B5) _____ Thin Muck Surface (C7) _____ Inundation Visible on Aerial Imagery (B7) _____ Other (Explain in Remarks) _____ Sparsely Vegetated Concave Surface (B8)		<u>Secondary Indicators (minimum of two required)</u> _____ Surface Soil Cracks (B6) <input checked="" type="checkbox"/> Drainage Patterns (B10) _____ Moss Trim Lines (B16) _____ Dry-Season Water Table (C2) _____ Crayfish Burrows (C8) _____ Saturation Visible on Aerial Imagery (C9) _____ Stunted or Stressed Plants (D1) <input checked="" type="checkbox"/> Geomorphic Position (D2) _____ Shallow Aquitard (D3) _____ Microtopographic Relief (D4) <input checked="" type="checkbox"/> FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes <u>X</u> No _____ Depth (inches): <u>1</u> Water Table Present? Yes <u>X</u> No _____ Depth (inches): _____ Saturation Present? Yes <u>X</u> No _____ Depth (inches): _____ (includes capillary fringe)		Wetland Hydrology Present? Yes <u>X</u> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks: depressional areas extending from ditchline into easternmost ag fields (east/west of hedgerow)		

VEGETATION – Use scientific names of plants.

 Sampling Point: W7-Wet-4

Tree Stratum (Plot size: <u>15 by 30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u>Ulmus americana</u>	<u>20</u>	<u>Yes</u>	<u>FACW</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>6</u> (A) Total Number of Dominant Species Across All Strata: <u>7</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>85.7%</u> (A/B)																
2. <u>Ostrya virginiana</u>			<u>FACU</u>																	
3. <u>Fraxinus pennsylvanica</u>	<u>40</u>	<u>Yes</u>	<u>FACW</u>																	
4. <u>Salix alba</u>			<u>FACW</u>																	
5. <u>Acer rubrum</u>			<u>FAC</u>																	
6. <u>Acer saccharinum</u>			<u>FACW</u>																	
7. <u>Alnus glutinosa</u>			<u>FACW</u>																	
	<u>60</u>	=Total Cover		Prevalence Index worksheet: <table style="width: 100%;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species _____</td> <td>x 1 = _____</td> </tr> <tr> <td>FACW species _____</td> <td>x 2 = _____</td> </tr> <tr> <td>FAC species _____</td> <td>x 3 = _____</td> </tr> <tr> <td>FACU species _____</td> <td>x 4 = _____</td> </tr> <tr> <td>UPL species _____</td> <td>x 5 = _____</td> </tr> <tr> <td>Column Totals: _____</td> <td>(A) _____ (B) _____</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = _____</td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species _____	x 1 = _____	FACW species _____	x 2 = _____	FAC species _____	x 3 = _____	FACU species _____	x 4 = _____	UPL species _____	x 5 = _____	Column Totals: _____	(A) _____ (B) _____	Prevalence Index = B/A = _____	
Total % Cover of:	Multiply by:																			
OBL species _____	x 1 = _____																			
FACW species _____	x 2 = _____																			
FAC species _____	x 3 = _____																			
FACU species _____	x 4 = _____																			
UPL species _____	x 5 = _____																			
Column Totals: _____	(A) _____ (B) _____																			
Prevalence Index = B/A = _____																				
Sapling/Shrub Stratum (Plot size: <u>15 by 20'</u>)																				
1. <u>Cornus sericea</u>			<u>FACW</u>																	
2. <u>Acer rubrum</u>			<u>FAC</u>																	
3. <u>Fraxinus pennsylvanica</u>	<u>15</u>	<u>Yes</u>	<u>FACW</u>																	
4. <u>Lonicera tatarica</u>	<u>20</u>	<u>Yes</u>	<u>FACU</u>																	
5. <u>Salix alba</u>			<u>FACW</u>																	
6. <u>Alnus glutinosa</u>			<u>FACW</u>																	
7. <u>Populus deltoides</u>			<u>FAC</u>																	
	<u>35</u>	=Total Cover		Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>X</u> 2 - Dominance Test is >50% <u>3</u> - Prevalence Index is ≤3.0 ¹ <u>4</u> - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
Herb Stratum (Plot size: <u>10 by 15'</u>)																				
1. <u>Phragmites australis</u>			<u>FACW</u>																	
2. <u>Phalaris arundinacea</u>	<u>15</u>	<u>Yes</u>	<u>FACW</u>																	
3. <u>Artemisia vulgaris</u>			<u>FACW</u>																	
4. <u>Onoclea sensibilis</u>			<u>FACW</u>																	
5. <u>Bidens vulgata</u>	<u>10</u>	<u>No</u>	<u>FAC</u>																	
6. <u>Impatiens capensis</u>			<u>FACW</u>																	
7. <u>Urtica dioica</u>			<u>FAC</u>																	
8. <u>Geranium bicknellii</u>	<u>10</u>	<u>No</u>	<u>FACW</u>	Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.																
9. <u>Lythrum salicaria</u>	<u>35</u>	<u>Yes</u>	<u>FACW</u>																	
10. <u>Equisetum arvense</u>	<u>15</u>	<u>Yes</u>	<u>FACW</u>																	
11. <u>Equisetum hyemale</u>			<u>FACW</u>																	
12. <u>Toxicodendron radicans</u>			<u>FAC</u>																	
	<u>85</u>	=Total Cover																		
Woody Vine Stratum (Plot size: _____)																				
1. <u>Vitis riparia</u>			<u>FAC</u>	Hydrophytic Vegetation Present? Yes <u>X</u> No _____																
2. _____																				
3. _____																				
4. _____																				
		=Total Cover																		

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point W7-Wet-4

[illegible]

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Mohawk SA City/County: Herkimer Sampling Date: 10/21/19
 Applicant/Owner: The Wetlands Trust, Inc. State: NY Sampling Point: W7-Up-4
 Investigator(s): Colin Diehl/Travis Money Section, Township, Range: Town of Schuyler
 Landform (hillside, terrace, etc.): none Local relief (concave, convex, none): _____ Slope %: 0-3
 Subregion (LRR or MLRA): LRR L Lat: 43.06822998 Long: -75.11344981 Datum: WGS 84
 Soil Map Unit Name: Wayland Soils Complex (Wd) NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil X, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u> If yes, optional Wetland Site ID: _____
Hydric Soil Present? Yes _____ No <u>X</u>	
Wetland Hydrology Present? Yes _____ No <u>X</u>	
Remarks: (Explain alternative procedures here or in a separate report.)	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> _____ Surface Water (A1) _____ Water-Stained Leaves (B9) _____ High Water Table (A2) _____ Aquatic Fauna (B13) _____ Saturation (A3) _____ Marl Deposits (B15) _____ Water Marks (B1) _____ Hydrogen Sulfide Odor (C1) _____ Sediment Deposits (B2) _____ Oxidized Rhizospheres on Living Roots (C3) _____ Drift Deposits (B3) _____ Presence of Reduced Iron (C4) _____ Algal Mat or Crust (B4) _____ Recent Iron Reduction in Tilled Soils (C6) _____ Iron Deposits (B5) _____ Thin Muck Surface (C7) _____ Inundation Visible on Aerial Imagery (B7) _____ Other (Explain in Remarks) _____ Sparsely Vegetated Concave Surface (B8)		<u>Secondary Indicators (minimum of two required)</u> _____ Surface Soil Cracks (B6) _____ Drainage Patterns (B10) _____ Moss Trim Lines (B16) _____ Dry-Season Water Table (C2) _____ Crayfish Burrows (C8) _____ Saturation Visible on Aerial Imagery (C9) _____ Stunted or Stressed Plants (D1) _____ Geomorphic Position (D2) _____ Shallow Aquitard (D3) _____ Microtopographic Relief (D4) _____ FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present? Yes _____ No <u>X</u> Depth (inches): _____ Saturation Present? Yes _____ No <u>X</u> Depth (inches): _____ (includes capillary fringe)		Wetland Hydrology Present? Yes _____ No <u>X</u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks: along low spot within ag field southwest of Wetland W7		

VEGETATION – Use scientific names of plants.

 Sampling Point: W7-Up-4

Tree Stratum (Plot size: <u>15 by 30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u>Rhamnus cathartica</u>			FACU	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0.0%</u> (A/B)																
2. <u>Crataegus monogyna</u>			FACU																	
3. <u>Tilia americana</u>			FACU																	
4. <u>Carya glabra</u>			FACU																	
5. <u>Fraxinus americana</u>			FACU																	
6. <u>Populus deltoides</u>			FAC																	
7. <u>Acer negundo</u>			FAC																	
			=Total Cover																	
Sapling/Shrub Stratum (Plot size: <u>15 by 20'</u>)																				
1. <u>Rhamnus cathartica</u>			FAC	Prevalence Index worksheet: <table style="width: 100%;"> <tr> <th style="width: 50%;">Total % Cover of:</th> <th style="width: 50%;">Multiply by:</th> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>0</u></td> <td>x 2 = <u>0</u></td> </tr> <tr> <td>FAC species <u>10</u></td> <td>x 3 = <u>30</u></td> </tr> <tr> <td>FACU species <u>30</u></td> <td>x 4 = <u>120</u></td> </tr> <tr> <td>UPL species <u>50</u></td> <td>x 5 = <u>250</u></td> </tr> <tr> <td>Column Totals: <u>90</u></td> <td>(A) <u>400</u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = <u>4.44</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>0</u>	x 2 = <u>0</u>	FAC species <u>10</u>	x 3 = <u>30</u>	FACU species <u>30</u>	x 4 = <u>120</u>	UPL species <u>50</u>	x 5 = <u>250</u>	Column Totals: <u>90</u>	(A) <u>400</u> (B)	Prevalence Index = B/A = <u>4.44</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>0</u>	x 1 = <u>0</u>																			
FACW species <u>0</u>	x 2 = <u>0</u>																			
FAC species <u>10</u>	x 3 = <u>30</u>																			
FACU species <u>30</u>	x 4 = <u>120</u>																			
UPL species <u>50</u>	x 5 = <u>250</u>																			
Column Totals: <u>90</u>	(A) <u>400</u> (B)																			
Prevalence Index = B/A = <u>4.44</u>																				
2. <u>Lonicera tatarica</u>			FACU																	
3. <u>Fraxinus americana</u>			FACU																	
4. _____																				
5. <u>Acer saccharum</u>			FACU																	
6. <u>Lindera benzoin</u>			FACW																	
7. <u>Rosa multiflora</u>			FACU																	
			=Total Cover																	
Herb Stratum (Plot size: <u>10 by 15'</u>)																				
1. <u>Urtica dioica</u>			FAC	Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>2</u> - Dominance Test is >50% <u>3</u> - Prevalence Index is ≤3.0 ¹ <u>4</u> - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2. <u>Toxicodendron radicans</u>			UPL																	
3. <u>Plantago major</u>			FACU																	
4. <u>Phalaris arundinacea</u>	<u>5</u>	No	FAC																	
5. <u>Phragmites australis</u>			FACW																	
6. <u>Solidago canadensis</u>	<u>25</u>	Yes	FACU																	
7. <u>Artemisia vulgaris</u>	<u>50</u>	Yes	UPL																	
8. <u>Trifolium repens</u>	<u>5</u>	No	FACU																	
9. <u>Dactylis glomerata</u>			FACU																	
10. <u>Parthenocissus quinquefolia</u>			FACU																	
11. <u>Taraxacum officinale</u>			FACU																	
12. <u>Equisetum arvense</u>	<u>5</u>	No	FAC																	
			<u>90</u> =Total Cover																	
Woody Vine Stratum (Plot size: _____)																				
1. _____				Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.																
2. _____																				
3. _____																				
4. _____																				
			=Total Cover																	

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point W7-Up-4

[illegible]

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Mohawk SA City/County: Herkimer Sampling Date: 10/21/19
 Applicant/Owner: The Wetlands Trust, Inc. State: NY Sampling Point: W8-Wet-1
 Investigator(s): Colin Diehl/Travis Money Section, Township, Range: Town of Schuyler
 Landform (hillside, terrace, etc.): drainageway Local relief (concave, convex, none): concave Slope %: 0-3
 Subregion (LRR or MLRA): LRR L Lat: 43.06892662 Long: -75.11745122 Datum: WGS 84
 Soil Map Unit Name: Hamlin Silt Loam (Hf) NWI classification: PFO/PSS

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u> Hydric Soil Present? Yes <u>X</u> No <u> </u> Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u> If yes, optional Wetland Site ID: <u> </u>
Remarks: (Explain alternative procedures here or in a separate report.)	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> <div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> <u>X</u> Surface Water (A1) <u>X</u> High Water Table (A2) <u>X</u> Saturation (A3) <u> </u> Water Marks (B1) <u> </u> Sediment Deposits (B2) <u>X</u> Drift Deposits (B3) <u> </u> Algal Mat or Crust (B4) <u> </u> Iron Deposits (B5) <u> </u> Inundation Visible on Aerial Imagery (B7) <u>X</u> Sparsely Vegetated Concave Surface (B8) </div> <div style="width: 48%;"> <u>X</u> Water-Stained Leaves (B9) <u>X</u> Aquatic Fauna (B13) <u> </u> Marl Deposits (B15) <u> </u> Hydrogen Sulfide Odor (C1) <u> </u> Oxidized Rhizospheres on Living Roots (C3) <u> </u> Presence of Reduced Iron (C4) <u> </u> Recent Iron Reduction in Tilled Soils (C6) <u> </u> Thin Muck Surface (C7) <u> </u> Other (Explain in Remarks) </div> </div>	<u>Secondary Indicators (minimum of two required)</u> <u> </u> Surface Soil Cracks (B6) <u>X</u> Drainage Patterns (B10) <u> </u> Moss Trim Lines (B16) <u> </u> Dry-Season Water Table (C2) <u> </u> Crayfish Burrows (C8) <u> </u> Saturation Visible on Aerial Imagery (C9) <u> </u> Stunted or Stressed Plants (D1) <u>X</u> Geomorphic Position (D2) <u> </u> Shallow Aquitard (D3) <u> </u> Microtopographic Relief (D4) <u>X</u> FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes <u>X</u> No <u> </u> Depth (inches): <u>4</u> Water Table Present? Yes <u>X</u> No <u> </u> Depth (inches): <u> </u> Saturation Present? Yes <u>X</u> No <u> </u> Depth (inches): <u> </u> (includes capillary fringe)	Wetland Hydrology Present? Yes <u>X</u> No <u> </u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: ditchline/drainageway within hedgerow, drains south to Mohawk river	

VEGETATION – Use scientific names of plants.

 Sampling Point: W8-Wet-1

Tree Stratum (Plot size: <u>15 by 30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u>Ulmus americana</u>	<u>30</u>	<u>Yes</u>	<u>FACW</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>7</u> (A) Total Number of Dominant Species Across All Strata: <u>7</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)																
2. <u>Ostrya virginiana</u>			<u>FACU</u>																	
3. <u>Fraxinus pennsylvanica</u>	<u>30</u>	<u>Yes</u>	<u>FACW</u>																	
4. <u>Salix alba</u>			<u>FACW</u>																	
5. <u>Acer rubrum</u>			<u>FAC</u>																	
6. <u>Acer saccharinum</u>			<u>FACW</u>																	
7. <u>Alnus glutinosa</u>			<u>FACW</u>																	
	<u>60</u>	=Total Cover		Prevalence Index worksheet: <table style="width: 100%;"> <tr> <th style="width: 50%;">Total % Cover of:</th> <th style="width: 50%;">Multiply by:</th> </tr> <tr> <td>OBL species <u> </u></td> <td>x 1 = <u> </u></td> </tr> <tr> <td>FACW species <u> </u></td> <td>x 2 = <u> </u></td> </tr> <tr> <td>FAC species <u> </u></td> <td>x 3 = <u> </u></td> </tr> <tr> <td>FACU species <u> </u></td> <td>x 4 = <u> </u></td> </tr> <tr> <td>UPL species <u> </u></td> <td>x 5 = <u> </u></td> </tr> <tr> <td>Column Totals: <u> </u></td> <td>(A) <u> </u> (B) <u> </u></td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = <u> </u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u> </u>	x 1 = <u> </u>	FACW species <u> </u>	x 2 = <u> </u>	FAC species <u> </u>	x 3 = <u> </u>	FACU species <u> </u>	x 4 = <u> </u>	UPL species <u> </u>	x 5 = <u> </u>	Column Totals: <u> </u>	(A) <u> </u> (B) <u> </u>	Prevalence Index = B/A = <u> </u>	
Total % Cover of:	Multiply by:																			
OBL species <u> </u>	x 1 = <u> </u>																			
FACW species <u> </u>	x 2 = <u> </u>																			
FAC species <u> </u>	x 3 = <u> </u>																			
FACU species <u> </u>	x 4 = <u> </u>																			
UPL species <u> </u>	x 5 = <u> </u>																			
Column Totals: <u> </u>	(A) <u> </u> (B) <u> </u>																			
Prevalence Index = B/A = <u> </u>																				
Sapling/Shrub Stratum (Plot size: <u>15 by 20'</u>)																				
1. <u>Cornus sericea</u>	<u>20</u>	<u>Yes</u>	<u>FACW</u>																	
2. <u>Acer rubrum</u>			<u>FAC</u>																	
3. <u>Fraxinus pennsylvanica</u>	<u>10</u>	<u>Yes</u>	<u>FACW</u>																	
4. <u>Lonicera tatarica</u>			<u>FACU</u>																	
5. <u>Salix alba</u>			<u>FACW</u>																	
6. <u>Alnus glutinosa</u>			<u>FACW</u>																	
7. <u>Populus deltoides</u>			<u>FAC</u>																	
	<u>30</u>	=Total Cover		Hydrophytic Vegetation Indicators: <u> </u> 1 - Rapid Test for Hydrophytic Vegetation <u> X </u> 2 - Dominance Test is >50% <u> </u> 3 - Prevalence Index is ≤3.0 ¹ <u> </u> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
Herb Stratum (Plot size: <u>10 by 15'</u>)																				
1. <u>Phragmites australis</u>			<u>FACW</u>																	
2. <u>Phalaris arundinacea</u>			<u>FACW</u>																	
3. <u>Artemisia vulgaris</u>			<u>FACW</u>																	
4. <u>Onoclea sensibilis</u>			<u>FACW</u>																	
5. <u>Bidens vulgata</u>	<u>5</u>	<u>Yes</u>	<u>FAC</u>																	
6. <u>Impatiens capensis</u>	<u>10</u>	<u>Yes</u>	<u>FACW</u>																	
7. <u>Urtica dioica</u>			<u>FAC</u>	Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.																
8. <u>Geranium bicknellii</u>	<u>5</u>	<u>Yes</u>	<u>FACW</u>																	
9. <u>Lythrum salicaria</u>			<u>FACW</u>																	
10. <u>Equisetum arvense</u>			<u>FACW</u>																	
11. <u>Equisetum hyemale</u>			<u>FACW</u>																	
12. <u>Toxicodendron radicans</u>			<u>FAC</u>																	
	<u>20</u>	=Total Cover																		
Woody Vine Stratum (Plot size: <u> </u>)				Hydrophytic Vegetation Present? Yes <u> X </u> No <u> </u>																
1. <u>Vitis riparia</u>			<u>FAC</u>																	
2. <u> </u>																				
3. <u> </u>																				
4. <u> </u>																				
		=Total Cover																		

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point W8-Wet-1

[illegible]

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Mohawk SA City/County: Herkimer Sampling Date: 10/21/19
Applicant/Owner: The Wetlands Trust, Inc. State: NY Sampling Point: W8-Up-1
Investigator(s): Colin Diehl/Travis Money Section, Township, Range: Town of Schuyler
Landform (hillside, terrace, etc.): none Local relief (concave, convex, none): _____ Slope %: 0-3
Subregion (LRR or MLRA): LRR L Lat: 43.0688537 Long: -75.1174338 Datum: WGS 84
Soil Map Unit Name: Hamlin Silt Loam (Hf) NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u> If yes, optional Wetland Site ID: _____
Hydric Soil Present? Yes _____ No <u>X</u>	
Wetland Hydrology Present? Yes _____ No <u>X</u>	
Remarks: (Explain alternative procedures here or in a separate report.)	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<u>Secondary Indicators (minimum of two required)</u> <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present? Yes _____ No <u>X</u> Depth (inches): _____ Saturation Present? Yes _____ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No <u>X</u>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks: along field edge, east of Wetland W8/hedgerow		

VEGETATION – Use scientific names of plants.

 Sampling Point: W8-Up-1

Tree Stratum (Plot size: <u>15 by 30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u>Rhamnus cathartica</u>			FACU	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>6</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0.0%</u> (A/B) Prevalence Index worksheet: <table style="width: 100%;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>0</u></td> <td>x 2 = <u>0</u></td> </tr> <tr> <td>FAC species <u>0</u></td> <td>x 3 = <u>0</u></td> </tr> <tr> <td>FACU species <u>95</u></td> <td>x 4 = <u>380</u></td> </tr> <tr> <td>UPL species <u>20</u></td> <td>x 5 = <u>100</u></td> </tr> <tr> <td>Column Totals: <u>115</u> (A)</td> <td><u>480</u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = <u>4.17</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>0</u>	x 2 = <u>0</u>	FAC species <u>0</u>	x 3 = <u>0</u>	FACU species <u>95</u>	x 4 = <u>380</u>	UPL species <u>20</u>	x 5 = <u>100</u>	Column Totals: <u>115</u> (A)	<u>480</u> (B)	Prevalence Index = B/A = <u>4.17</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>0</u>	x 1 = <u>0</u>																			
FACW species <u>0</u>	x 2 = <u>0</u>																			
FAC species <u>0</u>	x 3 = <u>0</u>																			
FACU species <u>95</u>	x 4 = <u>380</u>																			
UPL species <u>20</u>	x 5 = <u>100</u>																			
Column Totals: <u>115</u> (A)	<u>480</u> (B)																			
Prevalence Index = B/A = <u>4.17</u>																				
2. <u>Crataegus monogyna</u>			FACU																	
3. <u>Tilia americana</u>			FACU																	
4. <u>Carya glabra</u>			FACU																	
5. <u>Fraxinus americana</u>	<u>25</u>	Yes	FACU																	
6. <u>Populus deltoides</u>			FAC																	
7. <u>Acer negundo</u>			FAC																	
	<u>25</u>	=Total Cover																		
Sapling/Shrub Stratum (Plot size: <u>15 by 20'</u>)																				
1. <u>Rhamnus cathartica</u>			FAC	Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>2</u> - Dominance Test is >50% <u>3</u> - Prevalence Index is ≤3.0 ¹ <u>4</u> - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2. <u>Lonicera tatarica</u>	<u>15</u>	Yes	FACU																	
3. <u>Fraxinus americana</u>	<u>15</u>	Yes	FACU																	
4. <u> </u>																				
5. <u>Acer saccharum</u>			FACU																	
6. <u>Lindera benzoin</u>			FACW																	
7. <u>Rosa multiflora</u>	<u>20</u>	Yes	FACU																	
	<u>50</u>	=Total Cover																		
Herb Stratum (Plot size: <u>10 by 15'</u>)																				
1. <u>Urtica dioica</u>			FAC	Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes <u> </u> No <u>X</u>																
2. <u>Toxicodendron radicans</u>			UPL																	
3. <u>Plantago major</u>			FACU																	
4. <u>Phalaris arundinacea</u>			FAC																	
5. <u>Phragmites australis</u>			FACW																	
6. <u>Solidago canadensis</u>	<u>15</u>	Yes	FACU																	
7. <u>Artemisia vulgaris</u>	<u>20</u>	Yes	UPL																	
8. <u>Trifolium repens</u>			FACU																	
9. <u>Dactylis glomerata</u>			FACU																	
10. <u>Parthenocissus quinquefolia</u>	<u>5</u>	No	FACU																	
11. <u>Taraxacum officinale</u>			FACU																	
12. <u>Equisetum arvense</u>			FAC																	
	<u>40</u>	=Total Cover																		
Woody Vine Stratum (Plot size: <u> </u>)																				
1. <u> </u>																				
2. <u> </u>																				
3. <u> </u>																				
4. <u> </u>																				
		=Total Cover																		

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point W8-Up-1

[illegible]

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Mohawk SA City/County: Herkimer Sampling Date: 11/4/19
 Applicant/Owner: The Wetlands Trust, Inc. State: NY Sampling Point: W9-Wet-1
 Investigator(s): Colin Diehl Section, Township, Range: Schuyler
 Landform (hillside, terrace, etc.): _____ Local relief (concave, convex, none): concave Slope %: 0-3
 Subregion (LRR or MLRA): LRR L Lat: 43.07439585 Long: -75.12221708 Datum: WGS 84
 Soil Map Unit Name: Palms Muck NWI classification: PEM

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil X, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u> No _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____ If yes, optional Wetland Site ID: _____
Hydric Soil Present?	Yes <u>X</u> No _____	
Wetland Hydrology Present?	Yes <u>X</u> No _____	
Remarks: (Explain alternative procedures here or in a separate report.) 		

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> <input checked="" type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input checked="" type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<u>Secondary Indicators (minimum of two required)</u> <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input checked="" type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input checked="" type="checkbox"/> FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes <u>X</u> No _____ Depth (inches): <u>1</u> Water Table Present? Yes <u>X</u> No _____ Depth (inches): _____ Saturation Present? Yes <u>X</u> No _____ Depth (inches): _____ (includes capillary fringe)		Wetland Hydrology Present? Yes <u>X</u> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: 		
Remarks: wetland/sampling point was located within active farm field that had not been planted during growing season of 2019 and had recently been mowed.		

VEGETATION – Use scientific names of plants.

 Sampling Point: W9-Wet-1

Tree Stratum (Plot size: <u>15 by 30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u>Ulmus americana</u>			FACW	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B) Prevalence Index worksheet: <table style="width: 100%;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species _____</td> <td>x 1 = _____</td> </tr> <tr> <td>FACW species _____</td> <td>x 2 = _____</td> </tr> <tr> <td>FAC species _____</td> <td>x 3 = _____</td> </tr> <tr> <td>FACU species _____</td> <td>x 4 = _____</td> </tr> <tr> <td>UPL species _____</td> <td>x 5 = _____</td> </tr> <tr> <td>Column Totals: _____ (A)</td> <td>_____ (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = _____</td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species _____	x 1 = _____	FACW species _____	x 2 = _____	FAC species _____	x 3 = _____	FACU species _____	x 4 = _____	UPL species _____	x 5 = _____	Column Totals: _____ (A)	_____ (B)	Prevalence Index = B/A = _____	
Total % Cover of:	Multiply by:																			
OBL species _____	x 1 = _____																			
FACW species _____	x 2 = _____																			
FAC species _____	x 3 = _____																			
FACU species _____	x 4 = _____																			
UPL species _____	x 5 = _____																			
Column Totals: _____ (A)	_____ (B)																			
Prevalence Index = B/A = _____																				
2. <u>Acer rubrum</u>			FAC																	
3. <u>Fraxinus pennsylvanica</u>			FACW																	
4. _____																				
5. _____																				
6. _____																				
7. _____																				
			=Total Cover																	
Sapling/Shrub Stratum (Plot size: <u>15 by 20'</u>)																				
1. <u>Cornus sericea</u>			FACW	Hydrophytic Vegetation Indicators: <u> </u> 1 - Rapid Test for Hydrophytic Vegetation <u> X</u> 2 - Dominance Test is >50% <u> </u> 3 - Prevalence Index is ≤3.0 ¹ <u> </u> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2. <u>Acer rubrum</u>			FAC																	
3. <u>Fraxinus pennsylvanica</u>			FACW																	
4. <u>Lonicera tatarica</u>			FACU																	
5. _____																				
6. _____																				
7. _____																				
			=Total Cover																	
Herb Stratum (Plot size: <u>10 by 15'</u>)																				
1. <u>Lythrum salicaria</u>	20	Yes	OBL	Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes <u> X </u> No <u> </u>																
2. <u>Phalaris arundinacea</u>			FACW																	
3. <u>Polygonum sagittatum</u>			OBL																	
4. <u>Onoclea sensibilis</u>			FACW																	
5. <u>Typha angustifolia</u>	30	Yes	OBL																	
6. <u>Impatiens capensis</u>	10	No	FACW																	
7. <u>Carex stricta</u>	5	No	FACW																	
8. <u>Scirpus spp.</u>	5	No	FACW																	
9. <u>Geranium bicknellii</u>	10	No	FACW																	
10. <u>Bidens spp.</u>			FACW																	
11. <u>Eupatorium perfoliatum</u>	5	No	FACW																	
12. <u>Juncus effusus</u>			OBL																	
			85	=Total Cover																
Woody Vine Stratum (Plot size: _____)																				
1. _____																				
2. _____																				
3. _____																				
4. _____																				
			=Total Cover																	

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point W9-Wet-1

[illegible]

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Mohawk SA City/County: Herkimer Sampling Date: 11/4/19
 Applicant/Owner: The Wetlands Trust, Inc. State: NY Sampling Point: W9-Up-1
 Investigator(s): Colin Diehl Section, Township, Range: Town of Schuyler
 Landform (hillside, terrace, etc.): none Local relief (concave, convex, none): _____ Slope %: 0-3
 Subregion (LRR or MLRA): LRR L Lat: 43.07439369 Long: -75.12212953 Datum: WGS 84
 Soil Map Unit Name: Palms muck (Pk) NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil X, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u> If yes, optional Wetland Site ID: _____
Hydric Soil Present? Yes _____ No <u>X</u>	
Wetland Hydrology Present? Yes _____ No <u>X</u>	
Remarks: (Explain alternative procedures here or in a separate report.)	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> _____ Surface Water (A1) _____ Water-Stained Leaves (B9) _____ High Water Table (A2) _____ Aquatic Fauna (B13) _____ Saturation (A3) _____ Marl Deposits (B15) _____ Water Marks (B1) _____ Hydrogen Sulfide Odor (C1) _____ Sediment Deposits (B2) _____ Oxidized Rhizospheres on Living Roots (C3) _____ Drift Deposits (B3) _____ Presence of Reduced Iron (C4) _____ Algal Mat or Crust (B4) _____ Recent Iron Reduction in Tilled Soils (C6) _____ Iron Deposits (B5) _____ Thin Muck Surface (C7) _____ Inundation Visible on Aerial Imagery (B7) _____ Other (Explain in Remarks) _____ Sparsely Vegetated Concave Surface (B8)		<u>Secondary Indicators (minimum of two required)</u> _____ Surface Soil Cracks (B6) _____ Drainage Patterns (B10) _____ Moss Trim Lines (B16) _____ Dry-Season Water Table (C2) _____ Crayfish Burrows (C8) _____ Saturation Visible on Aerial Imagery (C9) _____ Stunted or Stressed Plants (D1) _____ Geomorphic Position (D2) _____ Shallow Aquitard (D3) _____ Microtopographic Relief (D4) _____ FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present? Yes _____ No <u>X</u> Depth (inches): _____ Saturation Present? Yes _____ No <u>X</u> Depth (inches): _____ (includes capillary fringe)		Wetland Hydrology Present? Yes _____ No <u>X</u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks: within central portion of westernmost ag field		

Sampling Point: W9-Up-1

Tree Stratum (Plot size: 15 by 30')		Absolute % Cover	Dominant Species?	Indicator Status
1.	<i>Prunus serotina</i>			FACU
2.	<i>Pinus strobus</i>			FACU
3.	<i>Thuja occidentalis</i>			FACU
4.	<i>Acer rubrum</i>			FAC
5.	<i>Fraxinus americana</i>			FACU
6.	<i>Acer saccharum</i>			FACU
7.	<i>Acer negundo</i>			FAC
			=Total Cover	
Sapling/Shrub Stratum (Plot size: 15 by 20')				
1.	<i>Rhamnus frangula</i>			FAC
2.	<i>Lonicera tatarica</i>			FACU
3.	<i>Fraxinus americana</i>			FACU
4.	<i>Prunus serotina</i>			FACU
5.	<i>Acer saccharum</i>			FACU
6.	<i>Lindera benzoin</i>			FACW
7.	<i>Rosa multiflora</i>			FACU
			=Total Cover	
Herb Stratum (Plot size: 10 by 15')				
1.	<i>Urtica dioica</i>			FAC
2.	<i>Toxicodendron radicans</i>			UPL
3.	<i>Plantago major</i>	10	No	FACU
4.	<i>Phalaris arundinacea</i>	20	Yes	FAC
5.	<i>Rubus allegheniensis</i>			FACU
6.	<i>Solidago canadensis</i>	10	No	FACU
7.	<i>Artemisia vulgaris</i>	15	Yes	UPL
8.	<i>Trifolium repens</i>	20	Yes	FACU
9.	<i>Dactylis glomerata</i>			FACU
10.	<i>Parthenocissus quinquefolia</i>			FACU
11.	<i>Asclepias syriaca</i>			FACU
12.	<i>Daucus carota</i>			UPL
		75	=Total Cover	
Woody Vine Stratum (Plot size:)				
1.				
2.				
3.				
4.				
			=Total Cover	

Remarks: (Include photo numbers here or on a separate sheet.)

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 33.3% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species 0	x 1 = 0
FACW species 0	x 2 = 0
FAC species 20	x 3 = 60
FACU species 40	x 4 = 160
UPL species 15	x 5 = 75
Column Totals: 75 (A)	295 (B)
Prevalence Index = B/A = 3.93	

Hydrophytic Vegetation Indicators:

1 - Rapid Test for Hydrophytic Vegetation

2 - Dominance Test is >50%

3 - Prevalence Index is ≤3.0¹

4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes No X

SOIL

Sampling Point W9-Up-1

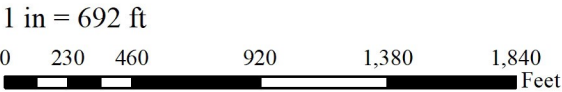
[illegible]

Appendix D. Supplemental site photos including photo location map.

Mohawk River Preserve Photopoint Locations Map



In Lieu Fee Program: Mohawk Service Area
Location: 2921 NY-5, Frankfort, NY 13340
Site Coordinates: 43.0738, -75.1206



- Legend
- ▲ Photopoint Locations
 - ⬢ Mohawk River Preserve Boundary





Photopoint 1: Forested Wetland Preservation Area looking west northwest, 4/25/2019



Photopoint 2: Western Field 1 looking southwest, 7/13/2019



Photopoint 3: Western Field 1 looking south, 7/13/2019



Photopoint 4: Western Field 1 looking north along western field boundary, 4/25/2019



Photopoint 5: Ditch on western boundary of western field 1, ditch drains through pipe under tree at the center of the field to the river. 11/10/2019



Photopoint 6: Western Field 1 looking north along ditch between Fields 1 and 2, 4/25/2019



Photopoint 7: Western Field 2 looking southwest, 7/13/2019



Photopoint 8: Western Field 2 stream encroachment looking south, 4/25/2019



Photopoint 9: Abandoned channel along Sterling Creek, part of mapped Wetland 3, 4/25/2019



Photopoint 10: Eastern Field 1 looking southwest along eastern edge of Sterling Creek corridor, 4/25/2019







Photopoint 15: Ditch between eastern fields 1 and 2 looking north northwest, 4/25/2019



Photopoint 16: Eastern Field, looking across the ditch between Fields 1 and 2, looking northwest along edge of field boundary ditch, part of mapped Wetland 7. 4/25/2019

Appendix E: Baseline VIBI data collection sheets.

Species	Common Name	CofC	Tolerance	Nativity	Form	Shade	Type	WET	Habit	EMP	MW	NCNE	Relative Cover	Weighted CofC
Acorus calamus	SWEET-FLAG	0	tolerant	adventive	forb	advent	DI	OBL	PE	OBL	OBL	OBL	2.5701E-05	0
Alnus incana	SPECKLED ALDER	6	sensitive	native	shrub	full	DI	FACW+ W		FACU	FACW	FACW	0.035981392	0.215888355
Artemisia vulgaris	COMMON MUGWORT	0	tolerant	adventive	forb	advent	DI	FACU-	PE	UPL	UPL	UPL	0.061682387	0
Bidens cernua	NODDING BEGGAR'S-TICK	3	midrange	native	forb	full	DI	OBL	AN	OBL	OBL	OBL	0.00128505	0.003855149
Carex lacustris	LAKE SEDGE	5	midrange	native	sedge	partial	MO	OBL	PE	OBL	OBL	OBL	2.5701E-05	0.000128505
Carex lurida	BOTTLEBRUSH SEDGE	3	midrange	native	sedge	full	MO	OBL	PE	OBL	OBL	OBL	2.5701E-05	7.7103E-05
Carex vulpinoidea	FOX SEDGE	1	tolerant	native	sedge	full	MO	OBL	PE	OBL	FACW	OBL	2.5701E-05	2.5701E-05
Cirsium arvense	CANADA THISTLE	0	tolerant	adventive	forb	advent	DI	FACU	PE	FACU	FACU	FACU	0.015420597	0
Daucus carota	QUEEN-ANNE'S-LACE	0	tolerant	adventive	forb	advent	DI	(UPL)	BI	UPL	UPL	UPL	0.014135547	0
Dichanthelium clandestinum	DEER'S-TONGUE PANIC GRASS	2	tolerant	native	grass	shade	MO	FAC+	PE	FAC	FACW	FACW	0.019275746	0.038551492
Echinochloa crus-galli	BARNYARD GRASS	0	tolerant	adventive	grass	advent	MO	FACU	AN	FAC	FACW	FAC	0.056542188	0
Epilobium ciliatum	NORTHERN WILLOW-HERB	4	midrange	native	forb	full	DI	FAC-	PE	FAC	FACW	FACW	0.003855149	0.015420597
Equisetum arvense	FIELD HORSETAIL	0	tolerant	native	fern	full	SVP	FAC	PE	FAC	FAC	FAC	0.09380863	0
Euthamia graminifolia	FLAT-TOPPED GOLDENROD	2	tolerant	native	forb	full	DI	FAC	PE	FAC	FACW	FAC	2.5701E-05	5.1402E-05
Lactuca serriola	PRICKLY LETTUCE	0	tolerant	adventive	forb	advent	DI	FAC-	BI	FAC	FACU	FACU	2.5701E-05	0
Leersia oryzoides	RICE CUT GRASS	1	tolerant	native	grass	full	MO	OBL	PE	OBL	OBL	OBL	0.003855149	0.003855149
Lycopus americanus	AMERICAN WATER-HOREHOUN	3	midrange	native	forb	full	DI	OBL	PE	OBL	OBL	OBL	2.5701E-05	7.7103E-05
Lysimachia nummularia	MONEYWORT	0	tolerant	adventive	forb	advent	DI	OBL	PE	FACW	FACW	FACW	0.003855149	0
Lythrum salicaria	PURPLE LOOSESTRIFE	0	tolerant	adventive	forb	advent	DI	FACW+ PE		FACW	OBL	OBL	0.015420597	0
Phalaris arundinacea	REED CANARY GRASS	0	tolerant	cryptogenic	grass	full	MO	FACW+ PE		FACW	FACW	FACW	0.020560796	0
Plantago lanceolata	ENGLISH PLANTAIN	0	tolerant	adventive	forb	advent	DI	UPL	PE	UPL	FACU	FACU	0.082243183	0
Plantago major	COMMON PLANTAIN	0	tolerant	adventive	forb	advent	DI	FACU	PE	FACU	FAC	FACU	0.032126243	0
Ranunculus repens	CREEPING BUTTERCUP	0	tolerant	adventive	forb	advent	DI	FAC	PE	FAC	FAC	FAC	0.041121591	0
Rumex crispus	CURLY DOCK	0	tolerant	adventive	forb	advent	DI	FACU	PE	FAC	FAC	FAC	2.5701E-05	0
Sparganium americanum	AMERICAN BUR-REED	6	sensitive	native	forb	full	MO	OBL	PE	OBL	OBL	OBL	0.008995348	0.053972089
Symphotrichum lateriflorum	CALICO ASTER	2	tolerant	native	forb	shade	DI	FACW-	PE	FACW	FACW	FAC	0.023130895	0.04626179
Taraxacum officinale	COMMON DANDELION	0	tolerant	adventive	forb	advent	DI	FACU-	PE	FACU	FACU	FACU	0.023130895	0
Trifolium repens	WHITE CLOVER	0	tolerant	adventive	forb	advent	DI	FACU-	PE	FACU	FACU	FACU	0.411215914	0
Typha angustifolia	NARROW-LEAVED CAT-TAIL	0	tolerant	adventive	forb	advent	MO	OBL	PE	OBL	OBL	OBL	0.00128505	0
Verbascum thapsus	COMMON MULLEIN	0	tolerant	adventive	forb	advent	DI	(UPL)	BI	FACU	UPL	UPL	2.5701E-05	0
Zea mays	CORN	0	tolerant	adventive	grass	advent	MO	(UPL)	AN	(UPL)	(UPL)	(UPL)	0.030841194	0

Site Information

Site Name:

TWT ILFP Mohawk Service Area Lock 19 Site

Site Code:

1

County:

Sampling date(s):

11/10/2019

Collector(s):

M. Yearick

Affiliation:

Phone number:

email address:

Create Summary Report

Plot Information

General Plot Information

Monitoring Type

VIBI & VIBI FQ

Monitor Event

1st

Total Modules

10

Intensive Modules

4

Plot Congituration

VIBI-Std (2x5)

Area (ha)

0.10

Latitude

Longitude

Centerline

Army Corps Region

NCNE

Plant Community Information

VEG Class

NON WETLAND

1st Plant Community

Veg. Group

Non-woody communities

Veg. Modifier

farm field

Other

2nd Plant Community

VEG Class

EMERGENT

Veg. Group

Wet meadow

Veg. Modifier

other (specify dominants)

Other

Ranunculus acris,
Sparganium americanum

HGM Information

Primary HGM Class

DEPRESSION

Sub class

Ground water

Secondary HGM Class

Sub class

Sub or Super Sample

NO

% Sub or Super Sample

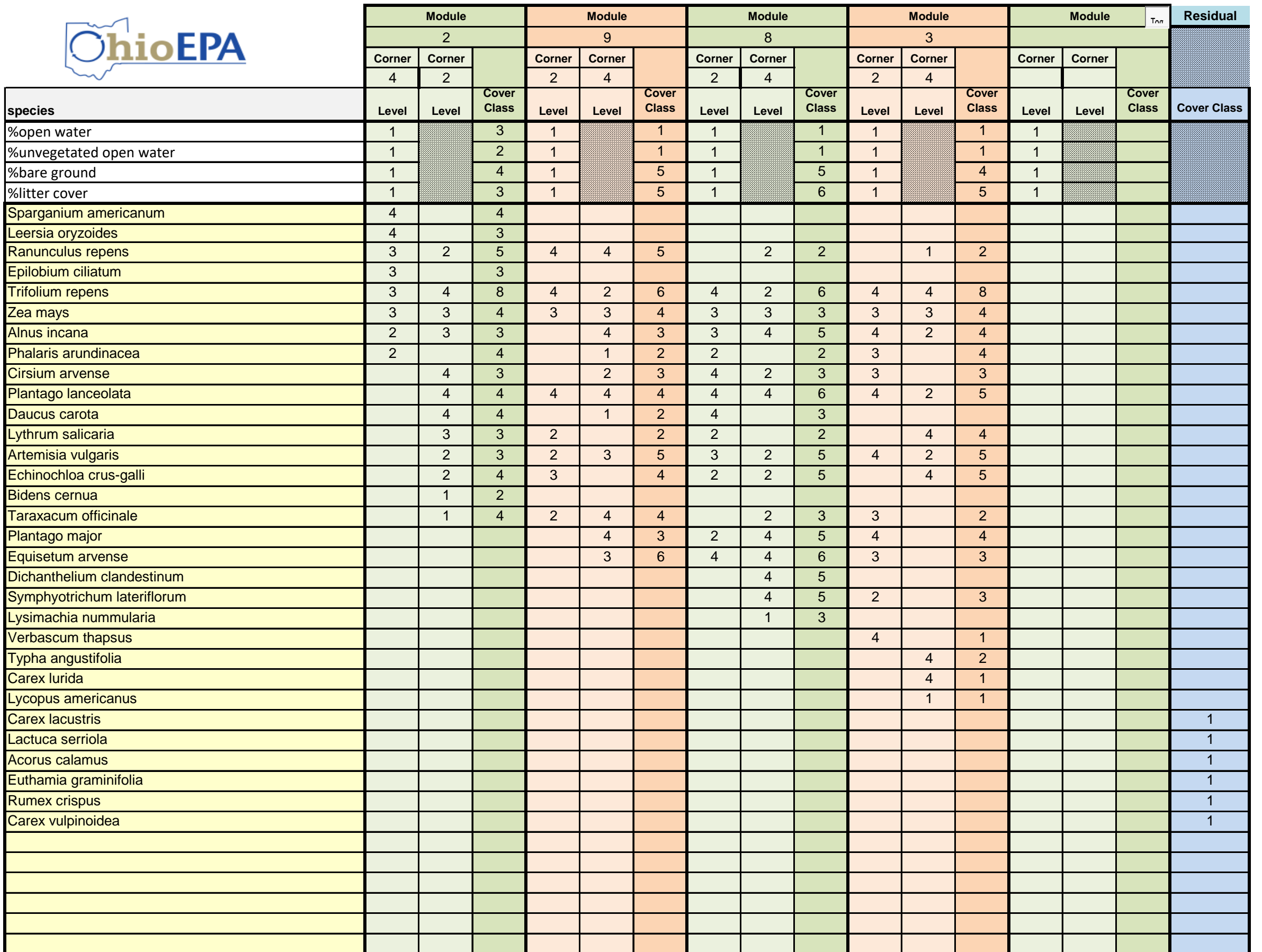
100%

Total plot canopy closure %

Total plot herbaceous cover %

VIBI Calculation Summary Information					
Metric	Value		VIBI - Metric Score		VIBI FQ
	Statewide	ACOE Region	Statewide	ACOE Region	Metric Score
Carex	3	3	NA	NA	NA
Cyperaceae	3	3	NA	NA	NA
Dicot	6	6	NA	NA	NA
Shade	3	3	NA	NA	NA
Shrub	1	1	NA	NA	NA
Hydrophyte	9	10	NA	NA	NA
Seedless Vascular Plant	1	1	NA	NA	NA
Annual/Perennial ratio	0.13	0.13	NA	NA	NA
FQAI	6.83	6.83	NA	NA	0.00
Weighted C of C	0.38	0.38	NA	NA	3.15
%bryophyte	0.00%	0.00%	NA	NA	NA
%hydrophyte	7.34%	7.34%	NA	NA	NA
%sensitive	4.50%	4.50%	NA	NA	NA
%tolerant	94.98%	94.98%	NA	NA	NA
%invasive graminoids	2.18%	2.18%	NA	NA	NA
Pole timber (small tree)	0.00	0.00	NA	NA	NA
Subcanopy IV	0.00	0.00	NA	NA	NA
Canopy IV	0.00	0.00	NA	NA	NA
Biomass	0	0	NA	NA	NA
%unvegetated	NA	NA	NA	NA	NA
Informational Parameters					
stems/ha wetland trees	0.00	0.00			
stems/ha wetland shrubs	0.00	0.00			
%buttonbush	0.00%	0.00%			
%perennial native hydrophytes	18.90%	18.90%			
%perennial native	18.90%	18.90%			
%perennial	89.71%	89.71%			
%adventives	80.97%	80.97%			
%open water	0.38%	0.38%			
%unvegetated open water	0.13%	0.13%			
%bare ground	5.50%	5.50%			
Wetness Index	0.38	0.38			
VIBI Total Score:			0	0	3
Average %Cover of Plot:	97.27%				
* If total %cover is < 75% for non-forested veg classes, then weighted CofC VIBI-FQ metric score is proportioned.					

VIBI-TEMPLATE VERSION:2015.2



Appendix F. Mohawk River Preserve mitigation site soil investigation report.

Soil Report

Elmwood Road Site
Herkimer County, NY
August 1, 2019

By Laurence D. Day, Soil Scientist (CPSS #02962)

On May 31, 2019 I observed six soil profiles on 168 acres of land owned by The Wetland Trust in the Town of Schuyler, Mohawk River watershed in southern Herkimer County, NY. The property is in the Central Great Lakes Forests Region (LRR L). Soils within the ± 100 acres of currently or recently farmed fields near the mouth of Sterling Creek were investigated in order to record soil profile characteristics in representative portions of the potential work area for determination of hydric/non-hydric status as a proposed wetland In-Lieu-Fee or mitigation bank. Wetland biologists Jeremy Waddell and Melissa Yearick of The Wetland Trust selected test pit locations. An excavator was used to expose the soil profiles, all of which were around 40 inches deep.

Site Conditions: The site is a relatively flat alluvial plain that gently slopes from northeast to southwest and towards the Mohawk River (Figure 1). Access is across a railroad grade along the northern border near NY State Barge Canal lock #19. An alluvial fan from Sterling Creek forms the slightly higher area east of the site entrance. Elevations are around 123 feet above mean sea level, with local relief generally of less than 10 feet. Low-gradient ditches cross the site in a few places that are still in operation from previous agricultural land use, helping to drain the predominantly silty soils that support mixed forb vegetation growing amid corn stubble. The site is within the 100-yr flood plain of the Mohawk River with southern-most portions being within the floodway (Figure 2).

Weather of May 31 was cool and slightly overcast. A stream gage of the Mohawk River at Little Falls on this date (Figure 3) records discharge around 1,000 cubic feet per second over median flow, implying that water tables should likewise have been elevated in soils adjacent to the river. All soil colors were described using moist, non-saturated soil conditions.

NRCS Soils Mapping: Figure 4 shows NRCS soil survey mapping on and near the site, plus two pages of legend with map unit names. Dominant soil types in the farmed fields are the non-hydric Teel and Hamlin Series, with Wayland, a hydric soil, in low spots that are poorly drained and frequently flooded. Teel is currently classified as a moderately well drained, coarse-silty *Fluvaquentic Eutrudept* having a seasonal high water table from 18 to 24"; however, at the time it was mapped (late 1960s) it also was considered to occur in a somewhat poorly drained phase that today would be considered Wakeville soil. The well drained Hamlin soil is a coarse-silty *Dystic Fluventic Eutrudept* with redoximorphic features below 24 inches. Palms muck (symbol Pk), a very poorly drained *Terric Haplosaprist*, is mapped over the westernmost part of the property, most of which is forested but also extends into cropland within the study area.

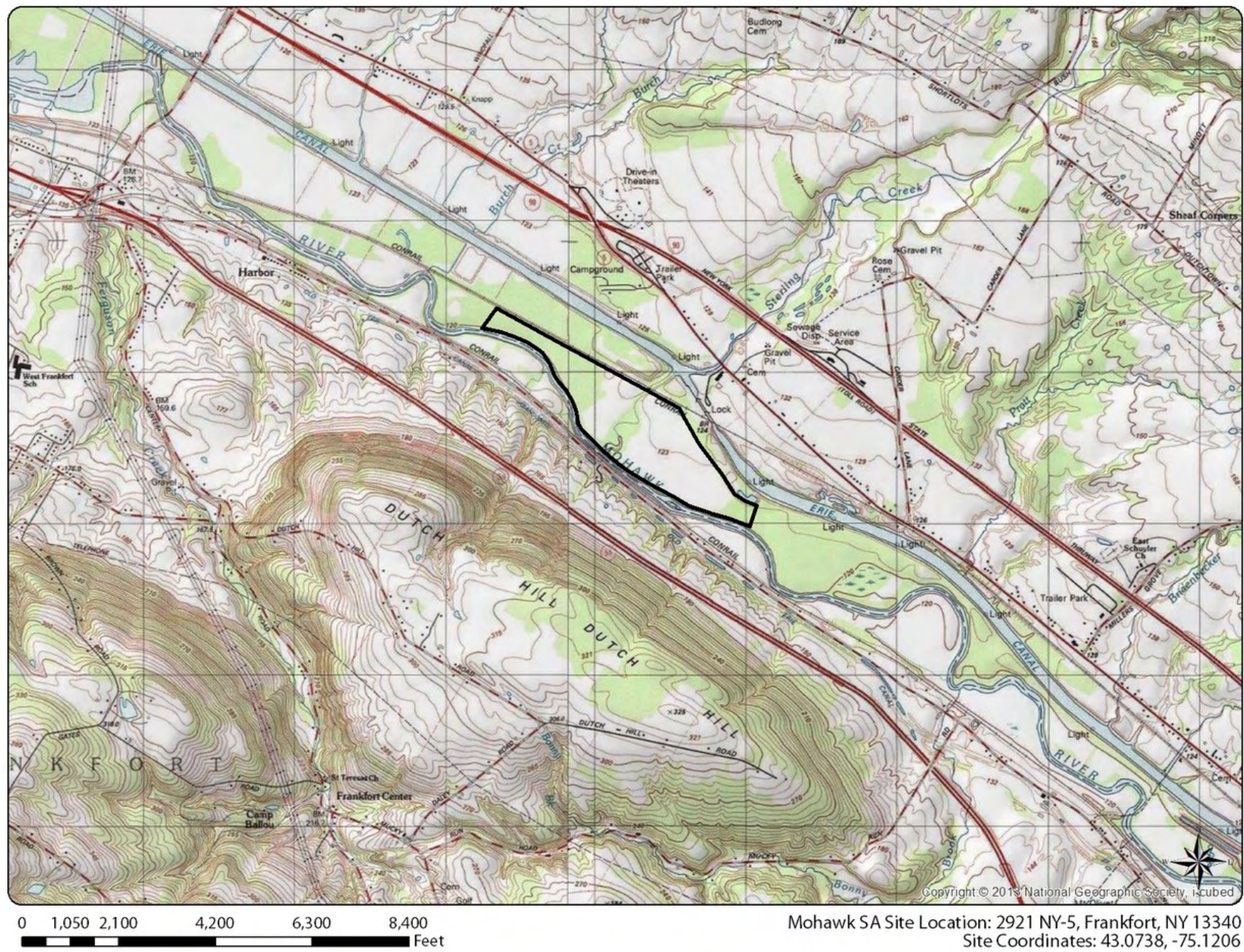


Figure 1: Location of Elmwood Road ILF site and local topography, a few miles east of Utica and just south of NY Thruway, New York.



Figure 2: Portion of FEMA flood zone mapping that includes site. The entire property is within the 100-yr flood zone, with a few hundred feet along the Mohawk River in the floodway, where floodwaters are moving. [Elevations in this figure are in feet using Barge Canal Datum.]

Discharge, cubic feet per second

Most recent instantaneous value: 2880 05-31-2019 16:30 EST

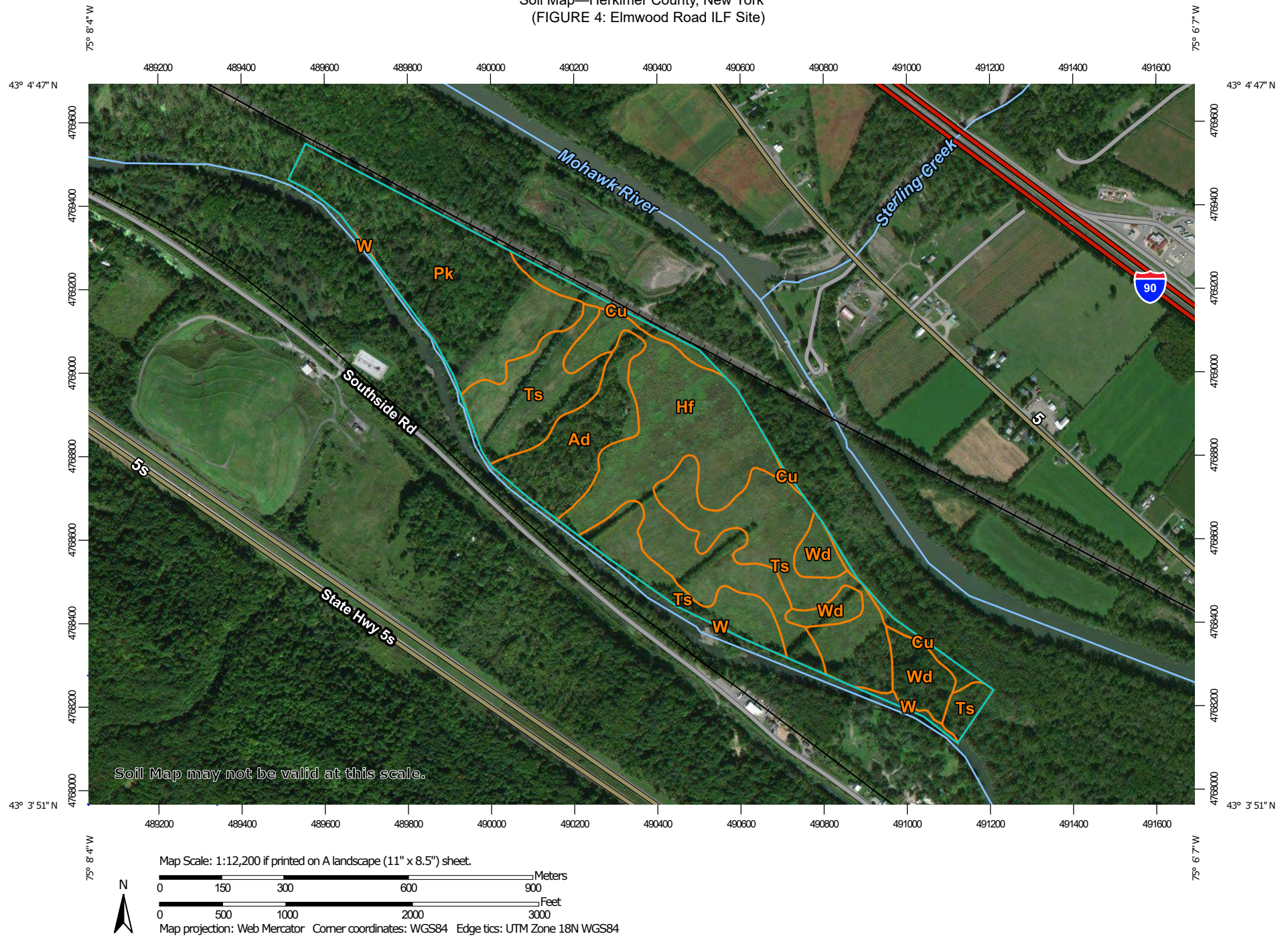


Daily discharge, cubic feet per second -- statistics for May 31 based on 91 years of record [more](#)

Min (1941)	25th percen- tile	Median	Mean	75th percen- tile	Most Recent Instantaneous Value May 31	Max (1956)
870	1300	1630	2160	2410	2880	12500

Figure 3: USGS stream gage data for a number of days preceding observations on May 31, 2019.

Soil Map—Herkimer County, New York
(FIGURE 4: Elmwood Road ILF Site)



MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

Water Features



Streams and Canals

Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

Background



Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Herkimer County, New York

Survey Area Data: Version 1, Mar 7, 2019

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Apr 23, 2014—Sep 23, 2016

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Ad	Alluvial land	14.7	9.0%
Cu	Cut and fill land	5.7	3.5%
Hf	Hamlin silt loam	43.8	26.9%
Pk	Palms muck	36.6	22.5%
Ts	Teel silt loam	50.5	31.0%
W	Water	0.9	0.6%
Wd	Wayland soils complex, 0 to 3 percent slopes, frequently flooded	10.7	6.6%
Totals for Area of Interest		162.8	100.0%

Findings: Figure 5 shows test pit locations as recorded by staff of The Wetland Trust on 5/31/2019 using a GPS, and soils at each of the six test pits are described on following pages. Based on depth to redox features identified in the field, most of the soils were either moderately well drained (test pits 2, 4 and 6) or well drained (pit 3), approximating the Teel and Hamlin soils. Soils at test pits 1 and 5 were poorly drained (Wayland). Solum layers were invariably silt loam, with increased gravel content in the substratum below 36 inches in some profiles.

All the soils appeared to be the result of natural processes with the exception of row-crop agriculture disturbing the upper 6 to 11" by cultivation, wheel ruts and a plow pan evident in pit 3. Essentially no evidence of cut-and-fill activity from historic construction of the canal, railroad or widening of the canal system was observed; this is in contrast to the northernmost area immediately adjacent to the railroad grade, just off the site and adjacent to the canal (Figure 4, soil map symbol Cu).

All test pits exposed profiles of mineral soils with quite dark surface and subsoil matrix colors, often to depths over two feet. This is considerably deeper than is typical of most mineral soils and outside official color variation ranges of the above-mentioned soil series currently accepted by the USDA-NRCS, although accepted at the time the soil survey was made (Soil Survey Staff, 1975)— apparently as local variation. Because soil colors are closely linked to the U.S. Army Corps of Engineers' hydric soil indicators, and since this appears to be a parent material feature, possible explanations of the soil color anomalies at this site follow.

Wetland soils with deep dark colors usually have elevated organic carbon content as a by-product of anaerobic conditions, along with redoximorphic features in zones of fluctuating saturation—usually at or near the soil surface. However, the six soils described here exhibited dark colors a few feet thick that often had few or no redox features within 18" of the surface. The soils natural-looking morphology may suggest natural deposition of dark, silty alluvium containing finely-divided, dark organic matter and water tables commonly between two and three feet from the surface. This scenario would likely favor gley colors at depths below the water table and well-expressed redox features where the water table fluctuates, organic material being an energy source for microbial processes such as those that create redoximorphic features. However, no gley colors were observed at in any soil horizons while zones with well-expressed redox features were typically below three feet.

Another explanation for the dark and deep colors relates to the local bedrock geology in this section of the valley floor that is dominated by the black Utica Shale formation through which both the Mohawk River and Sterling Creek flow (Figure 6). Fine-sized particles of this black shale may have been incorporated throughout the alluvium on this site and the soils that developed there. In this scenario the shale-influenced alluvium, colored by dark organics of ancient origin, would presumably provide less of an available an energy source to soil microbes compared with more recent organic matter. Water tables may be at shallower depths closer to one to two feet while redoximorphic features might be less reliable of a hydric soil indicator—a problem soil due to inherent parent material color.

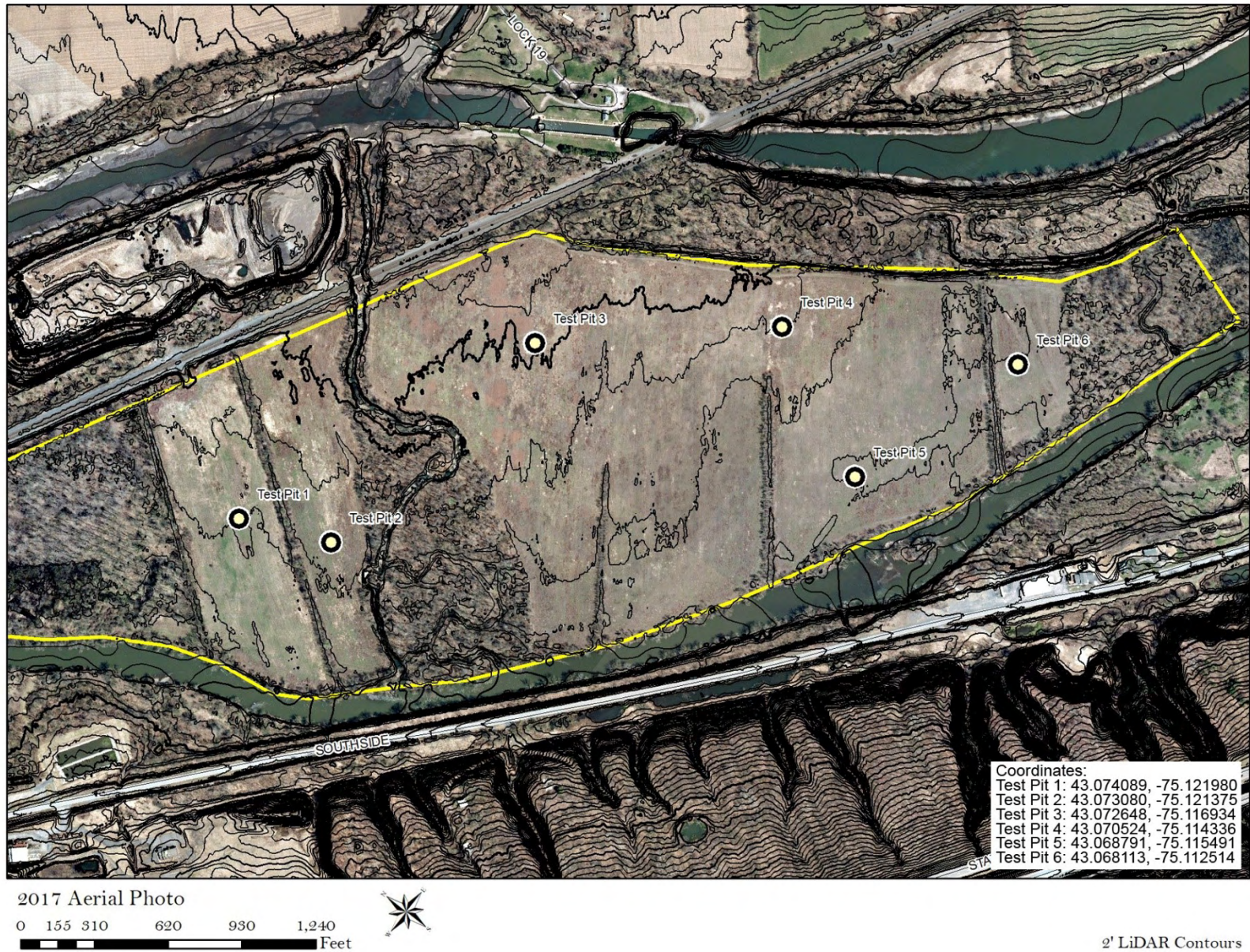


Figure 5: Test pit locations on Elmwood Road site.

PIT 1

Wetland Trust Property, Elmwood Road site, Herkimer Co., NY



<u>Horizon</u>	<u>Depth</u>	<u>Description</u>
Ap	0-8"	Very dark grayish brown (10Y 3/2) silt loam; strong medium granular structure; many fine & medium roots; abrupt smooth boundary.
Bg1	8-18"	Very dark grayish brown (10Y 3/2) silt loam; 10% medium distinct 7.5YR 4/4 Fe accumulations as soft masses, plus 1% as fine root stains); moderate medium blocky structure; few very fine roots; clear smooth boundary.
Bg2	18-27"	Dark gray (10YR 4/1) silt loam, with 10% coarse distinct 10YR 6/6 Fe concentrations as soft masses; weak medium subangular blocky structure; few fine roots; clear smooth boundary.
2C	27-36"	Dark brown (7.5Y 3/2) gravelly silt loam; 30% coarse distinct 7.5YR 5/6 Fe concentrations as soft masses, with 5% coarse faint 10YR 4/2 depletions on ped faces; weak medium subangular blocky structure; few fine roots; clear wavy boundary.

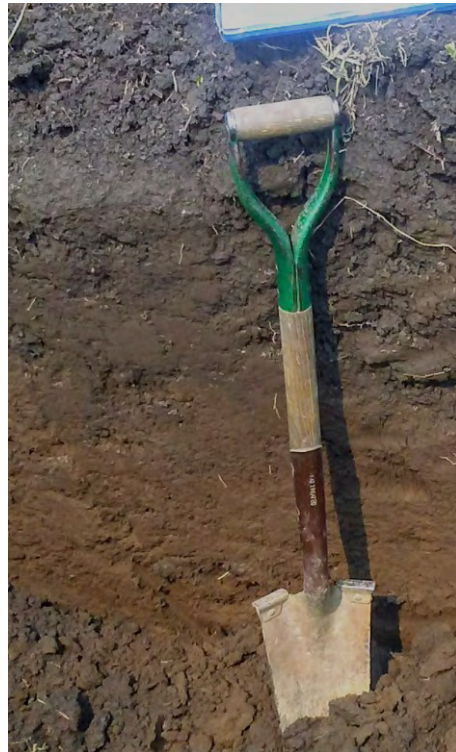
Comments:

This is a hydric soil, meeting the requirements of indicator F6.

Estimated seasonal high water table at 10 to 12". Groundwater entered pit at 36" depth, rising to 29" within 1/2 hour and to 20" in four hours. Vegetation is corn stubble and mixed upland and wetland herbs.

PIT 2

Wetland Trust Property, Elmwood Road site, Herkimer Co., NY



<u>Horizon</u>	<u>Depth</u>	<u>Description</u>
Ap	0-10"	Very dark gray (10Y 3/1) silt loam; moderate medium granular structure, parting to weak medium subangular blocky structure; common fine and medium roots; abrupt smooth boundary.
Bg1	10-18"	Very dark gray (10Y 3/1) silt loam; moderate medium blocky structure; few fine roots; clear smooth boundary.
Bg2	18-30"	Dark brown (10YR 3/2) silt loam, with 10% coarse distinct 7.5YR 5/6 Fe concentrations as soft masses; moderate medium subangular blocky structure; few fine roots; gradual smooth boundary.
BC	30-41"	Brown (7.5Y 4/3) silt loam, with 1% medium faint 7.5YR 4/1 depletions; weak medium subangular blocky structure.
Comments:	Estimated seasonal high water table at 18 to 24". Vegetation was corn stubble and mixed upland forbs. This is not a hydric soil.	

PIT 3

Wetland Trust Property, Elmwood Road site, Herkimer Co., NY



<u>Horizon</u>	<u>Depth</u>	<u>Description</u>
Ap	0-11"	Very dark gray (7.5YR 3/1) silt loam; strong medium granular structure; many fine and medium roots; abrupt smooth boundary.
Apx	7-11"	(Plow pan; color as above but compact, dense & structureless, with few very fine roots.)
Bg1	11-30"	Dark gray (7.5YR 4/1) silt loam; moderate medium blocky structure; few very fine roots; gradual smooth boundary.
Bg2	30-44"	Brown (7.5YR 4/2) silt loam, with 15% fine prominent 7.5YR 5/6 Fe concentrations as soft masses, and 1% fine faint 7.5YR 5/1 depletions; moderate medium subangular blocky structure; clear smooth boundary.
C	44-47"	Mixed 50% brown (7.5Y 4/4) Fe concentrations as soft masses and 50% gray (7.5YR 5/1) depletions; silt loam; moderate medium subangular blocky structure.

Comments: Estimated seasonal high water table at 30 to 36".
Vegetation was corn stubble and mixed upland forbs.

This is not a hydric soil.

PIT 4

Wetland Trust Property, Elmwood Road site, Herkimer Co., NY



<u>Horizon</u>	<u>Depth</u>	<u>Description</u>
Ap	0-7"	Very dark gray (10YR 3/1) silt loam; moderate medium granular structure; common fine and medium roots; clear smooth boundary.
Bg1	7-17"	Very dark gray (10YR 3/1) silt loam; moderate medium subangular blocky structure; few fine and medium roots; clear wavy boundary.
Bg2	17-40"	Brown (10YR 4/2) silt loam, with 5% distinct 7.5 YR 4/4 Fe concentrations as soft masses, and 1% faint 10YR 4/1 depletions; moderate medium blocky structure; few medium roots clear smooth boundary.
Cg	40-44"	Brown (7.5YR 4/2) silt loam, with 5% coarse faint 7.5YR 2.5/1 MnO concentrations as soft masses and 1% fine distinct 7.5 YR 4/4 Fe concentrations as soft masses; weak medium subangular blocky structure.

Comments: Estimated seasonal high water table at 17 to 23".
Vegetation was corn stubble and mixed upland forbs.

This is not a hydric soil.

PIT 5

Wetland Trust Property, Elmwood Road site, Herkimer Co., NY



<u>Horizon</u>	<u>Depth</u>	<u>Description</u>
Ap	0-8"	Very dark gray (10YR 3/1) silt loam; moderate medium granular structure; common fine and medium roots; abrupt smooth boundary.
Bg1	8-11"	Very dark gray (10YR 3/1) silt loam; moderate medium subangular blocky structure; few fine roots; clear smooth boundary.
Bg2	11-23"	Dark gray (10YR 4/1) silt loam, with 10% fine prominent 10 YR 5/4 Fe concentrations as both soft masses and pore linings, and with 2% fine faint 10YR 4/2 depletions; moderate medium blocky structure; clear smooth boundary.
BCg	23-42"	Dark gray (10YR 4/1) gravelly silt loam, with 2% fine distinct Fe concentrations as soft masses, and 5% coarse faint 10YR 5/2 depletions on ped faces; massive (structureless) and firm in place.

Comments:

This is a hydric soil, meeting indicator A11.

Estimated seasonal high water table at 11 to 17". Water slowly seeped into pit bottom over 1/2 hour. Vegetation was corn stubble and mixed upland & wetland forbs.

PIT 6

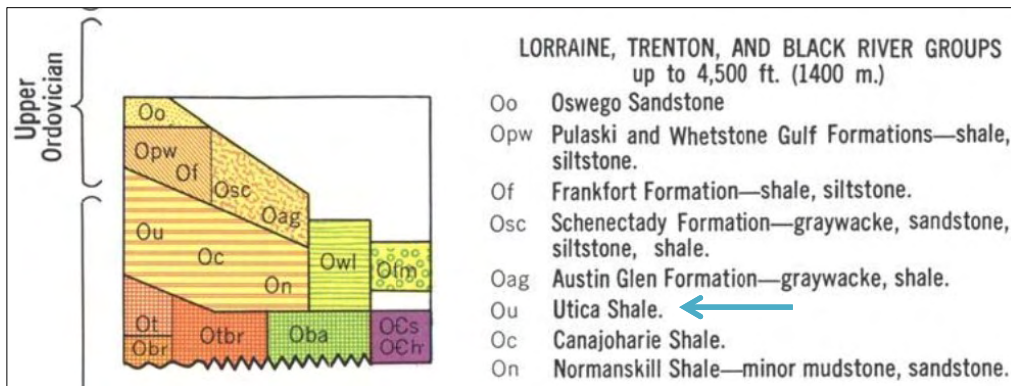
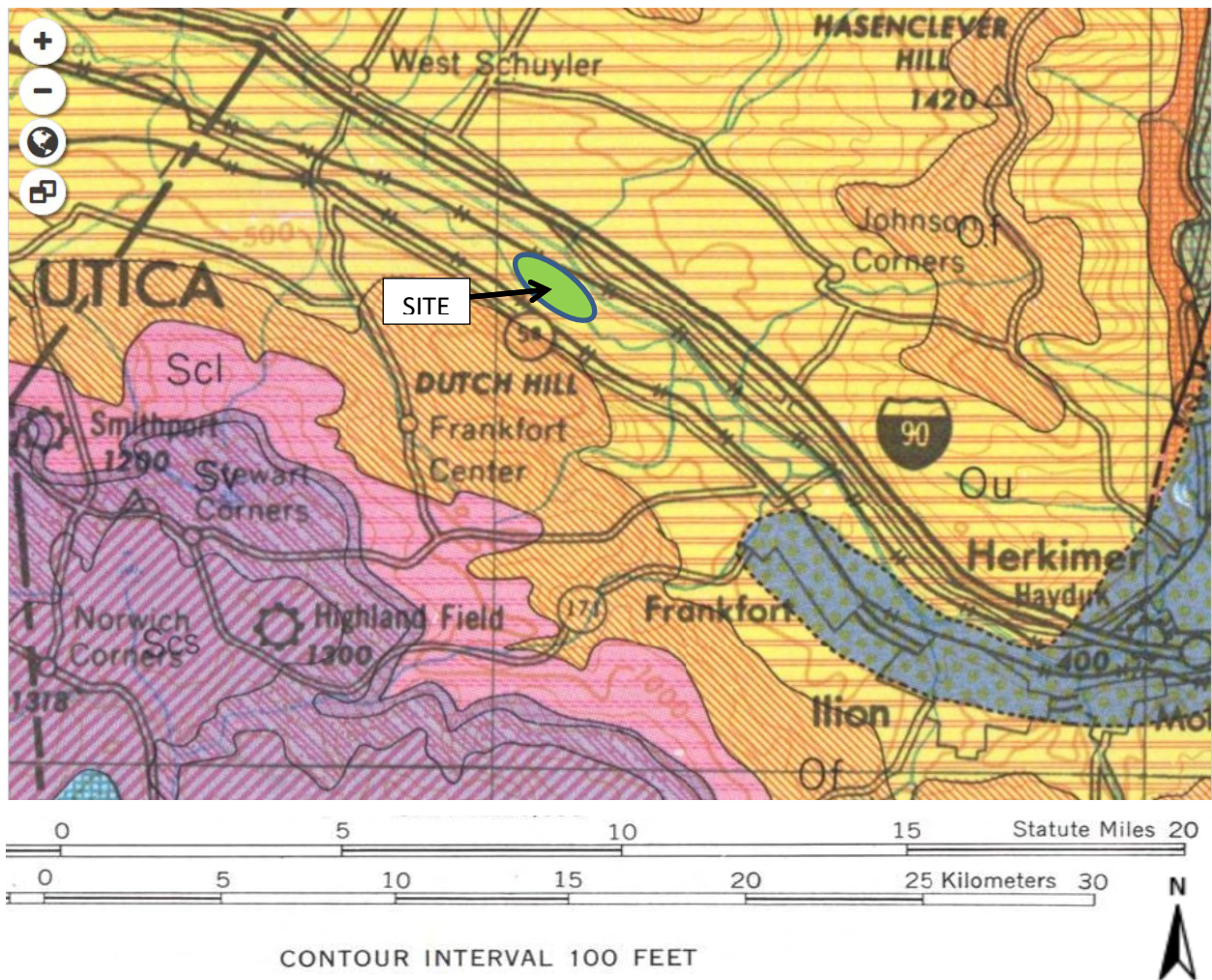
Wetland Trust Property, Elmwood Road site, Herkimer Co., NY



<u>Horizon</u>	<u>Depth</u>	<u>Description</u>
Ap	0-7"	Very dark gray (7.5YR 3/1) silt loam; strong medium granular structure; common fine and medium roots; abrupt smooth boundary.
Bw	7-15"	Very dark gray (7.5YR 3/1) silt loam; moderate medium subangular blocky structure; common fine roots; clear smooth boundary.
Bg1	15-26"	Dark gray (7.5YR 4/1) silt loam, with 15% fine distinct 7.5YR 5/4 Fe concentrations as soft masses and few root stains; moderate medium subangular blocky structure; few fine roots; clear smooth boundary.
Bg2	26-40"	Dark gray (7.5YR 4/1) silt loam, with 20% fine distinct 7.5YR 5/4 Fe concentrations as soft masses; weak medium subangular blocky structure; clear smooth boundary.
Cg	40-42"	Mixed dark gray (7.5Y 4/1) and brown (7.5YR 5/4) silt loam, with Fe concentrations as soft masses; silt loam; weak medium subangular blocky structure.

Comments: Estimated seasonal high water table at 15 to 21". Water seeped into pit bottom to 39" over 1/2 hour. Vegetation was corn stubble and mixed upland & wetland forbs.

This is not a hydric soil.



Lithologic constituents

Major

Sedimentary > Clastic > Mudstone > Shale > Black-shale

Figure 6: Bedrock geology map, showing site within area of black Utica Shale (Fisher et al., 1970).

While the dark colors interfered somewhat with efforts to recognize faint depletions within a darker gray matrix, Fe accumulations were quite evident as distinct and prominent soft masses. Depth and distribution of plant roots were in keeping with recognized redox features, with more and larger roots occurring in horizons with few or no redox features. In the end, the hydric soil indicators seemed to work adequately with careful observations and were applied in the usual manner (US Army Corps of Engineers, 2012). A number of piezometers installed by The Wetland Trust in 2019 should help to better define water table depths going forward.

Soil Suitability for Wetland Creation: Both the poorly drained Wayland areas (near pits 1 and 5) have naturally occurring water tables near a foot of the surface and would need little or no excavation. The well drained Hamlin area (around pit 3) would likely need around two feet of excavating to approach the water table. The predominately silt loam textures throughout the site can store relatively high amounts of plant-available water in all the soil profiles. As demonstrated by the plow pan layer described in pit 3, and by hydrophytes and standing water observed in wheel ruts scattered across the fields, soil compaction efforts would significantly reduce vertical permeability and help impound precipitation. Existing drainage ditches can be plugged or have hydrologic control structures installed to help maintain elevated water tables. Relatively flat surface slopes would further enable water table controls to be effective over an extended area. (Site topography and relative elevations of the barge canal to the north and the Mohawk River to the south favor groundwater flow paths trending from northwest to southeast.) Combined, these soil and drainage features appear to favor long-term wetland creation potential at this site.

References:

FEMA flood rate maps (3603180010C, effective on 06/20/2001)

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