



Appendix E

Stream Systems

APPENDIX E1

Tables

Appendix E - Table 1 – Reach Summaries for Watercourses and Headwater Drainage Features (HDFs)

Reach	Old Reach ID (Mayfield West SWS)	Feature Type	HDF Type	Windshield Assessed (Y/N)	Valley Setting	Channel Length (m)	Vegetation	Erosion / Deposition	RGA Condition (Mayfield West SWS)	Geomorphic Constraint	Notes / Observations
CCC(1)		Watercourse		Y	Confined	1427	Forested, within valley			High	New bridge and channel design, ESC still in place, channel width approx. 1.5 to 2m, water flowing, vegetation well established
CCC(1)1-1		Watercourse		N	Confined	551	Trees			Medium	Can't see from road, slight sinuosity
CCC(2)		Watercourse		Y	Confined	3019	Grass, cropland			High	Very sinuous, new bridge at crossing, banks stable, channel 1 to 2 m wide
CCC(3)		Watercourse		Y	Confined	3548	Grass, cropland			High	Mayfield crossing adjacent to large pond, channel flowing, outlets through forest, concrete box culvert, new gabion baskets on banks between pond and road, some coarse substrate, no erosion; Heart Lake Crossing widening at culvert upstream.
CCC(5)		Watercourse		Y	Confined	1431	Grassy meadow, within valley	Erosion		High	Upstream minimal flow, channel 2 to 3 m, concrete box culvert, some erosion at sides of culvert, cattails further upstream; downstream channel wider 4 to 5 m, banks well vegetated, standing water
CCC(6)		Watercourse		N	Confined	3610	Trees, within valley			High	Very sinuous channel, within confined valley
FC(1)		Watercourse			Unconfined	1061				Low	channel realignment occurring for development
FC(3)		Watercourse			Unconfined	1607				Low	
FC(4)		Watercourse			Unconfined	1727				Medium	Upstream channel contains cattails looks like swale, downstream watercourse, standing water, new outfall on left bank, channel realignment occurring d/s for development
HRT(1)		Watercourse		N	Confined	427	Forest, within valley			High	Can't see from road, within confined valley
HRT(1)1-1		Watercourse		N	Confined	712	Forest, within valley			High	Can't see from road, within confined valley
HRT(1)1-2		Watercourse		N	Confined	283	Forest, within valley			High	Can't see from road, within confined valley
HRT(10)		Watercourse		N	Confined	795	Forested, within valley			High	Within forested valley downstream of study area, highly sinuous
HRT(11)		Watercourse		N	Confined	676	Forested			Medium	Potentially straightened across road
HRT(11)1		Watercourse		N	Unconfined	428	Forested, within valley			Medium	Confined, parallel to road, moderately sinuous
HRT(12)		Watercourse		N	Confined	1241	Forested			Medium	Sinuuous, but straightened through road crossing, meander on north end going to cut off

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HRT(12)2-1		Watercourse		N	Unconfined	226	Trees, cropland			Low	Can't see from road, some channel sinuosity
HRT(12)4-1		Watercourse		N	Unconfined	900	Forested			Medium	
HRT(2)		Watercourse		N	Confined	1531	Forest, within valley			High	Can't see from road, within confined valley
HRT(2)1-1		Watercourse		N	Confined	1199	Forest, within valley			High	Can't see from road, within confined valley
HRT(2)1-1a		Watercourse		N	Confined	216	Forest, within valley			High	Can't see from road, within confined valley
HRT(2)1-1c		Watercourse		N	Confined	216	Forest, within valley			High	Can't see from road, within confined valley
HRT(2)1-1d		Watercourse	Piped	N	Confined	57	Trees, piped			Medium	Piped under property
HRT(2)1-1e		Watercourse		N	Unconfined	104	Trees, within valley			High	Can't see from road, within confined valley
HRT(2)2-1		Watercourse	Piped	Y	Unconfined	663	Cropland, piped			Low	Partially piped through construction field, or realigned, no defined channel present
HRT(3)		Watercourse		Y	Unconfined	651	Trees, small valley			Medium	newly constructed bridge, channel likely recently realigned, channel is wide but lacks definition and is filled with grass and vegetation
HRT(6)		Watercourse		N	Confined	484	Trees, within valley			Medium	Within confined valley, short tributary off main branch of Humber
HRT(6)1		Watercourse		N	Unconfined	227	Trees			Medium	Potentially straightened
HRT(7)		Watercourse		N	Unconfined	540	Forest, within valley			High	
HRT(8)		Watercourse		Y	Confined	457	Forest, within valley			Medium	Bordered by trees, low bank angles
HRT(8)2-1		Watercourse		N	Confined	212	Forested, within valley			Medium	
HRT(8)2-2		Watercourse		N	Confined	318	Forested, within valley			Medium	
HRT(8)2-2a		Watercourse		N	Unconfined	170	Forested, within valley			Medium	
HRT(9)		Watercourse		Y	Confined	866	Forested, within valley			High	Newly constructed bridge, channel likely recently realigned, low banks, stable, no erosion, water minimally flowing
HRT(9)1-1		Watercourse		N	Unconfined	585	Cropland			Medium	Sinuuous through grassy floodplain in farm fields
HRT(9)1-2a		Watercourse		N	Unconfined	256	Cropland			Low	Looks like defined channel through farm field
MEC-R1	MEC-R1	Watercourse			Confined	3110	Within valley		In Regime	High	Highly sinuous
MEC-R2	MEC-R2 and R-3	Watercourse			Confined	1439	Within valley		Transitional	High	Highly sinuous
MEC-R2(1)	MEC-R8	Watercourse			Confined	351	Trees		In Regime	High	Within Valley

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MEC-R2(2)	MEC-R9	Watercourse			Confined	596	Trees, confined		Transitional	High	Confined
MEC-R2(3)	MEC-R10,11,12	Watercourse			Confined	1971	Forested, within valley		In Regime	High	Sinuuous, within valley
MEC-R2(3-1)	MEC-R14	Watercourse			Confined	623	Trees, Grassy Meadow		In Regime	Medium	Confined, straightened on part of property
MEC-R2(3-10)		Watercourse			Unconfined	332	Cropland			Low	Minimal sinuosity, parallel to road, in farm field
MEC-R2(3-2)		Watercourse			Unconfined	837	Forested			Medium	In forest, sinuous, not confined
MEC-R2(3-2)1		Watercourse			Unconfined	673					
MEC-R2(3-2)1a		Watercourse			Unconfined	313	Cropland			Low	Well defined channel, straightened
MEC-R2(3-2)1b		Watercourse			Confined	593	Trees, Cropland			Medium	Sinuuous through trees, loses form in farm field
MEC-R2(3-2)2		Watercourse			Unconfined	1441	Forested			High	Very sinuous, in forested area, confined
MEC-R2(3-2)3		Watercourse			Unconfined	1098	Cropland			Medium	Well defined channel, looks dredged or straightened
MEC-R2(3-3)		Watercourse			Unconfined	1633	Grassy meadow			High	Channel very sinuous and actively meandering in floodplain
MEC-R2(3-4)		Watercourse			Unconfined	1398	Grassy Meadow, trees			Medium	Channel more straightened and not actively meandering, some confinement
MEC-R2(3-5)		Watercourse			Unconfined	749	Trees, grassy meadow			High	Channel very sinuous and meandering, some confinement
MEC-R2(3-6)		Watercourse			Unconfined	2238	Some trees, mainly cropland			Medium	Well defined channel with water, reach has been straightened
MEC-R2(3-6)1	MEC-R16	Watercourse			Confined	833	Forested, within valley		In Regime	High	Sinuuous, within valley
MEC-R2(3-6a)		Watercourse			Unconfined	1223	Trees and cropland			Medium	Well defined channel with water, reach has been straightened
MEC-R2(3-7)		Watercourse			Confined	1576	Grassy meadow, within valley			High	Within confined system, reach has been straightened
MEC-R2(3-7a)		Watercourse			Confined	714	Grass, cropland			Medium	Minor sinuosity, some confinement
MEC-R2(3-8)		Watercourse			Unconfined	1521	Cropland			Medium	Straightened to flow between buildings, defined channel
MEC-R2(3-8c)		Watercourse			Unconfined	910	Grass, cropland			Low	Outlets from pond, well defined channel
MEC-R2(3-9)	MEC-R17A	Watercourse			Confined	306	Forested, within valley		In Regime	High	Sinuuous, within valley
MEC-R2(4)	MEC-R13	Watercourse			Unconfined	1181	Trees	Erosion	In Regime	Medium	D/s incising at culvert. Minor sinuosity, bordered by trees

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MEC-R2(4-3)	MEC-R15	Watercourse			Confined	404	Forested, within valley		In Regime	High	Sinuuous channel within forest and valley
MEC-R2(4-4)		Watercourse			Confined	2699	Forested, within valley			High	Sinuuous channel within forest and valley
MEC-R2(4-4a)		Watercourse			Confined	901	Trees, cropland			Medium	Moderate sinuosity, not confined, originates in farm field
MEC-R2(4-4b)		Watercourse			Confined	334	Forested, cropland			Medium	Moderate sinuosity, not confined, originates in farm field
MEC-R2(4-5)		Watercourse			Unconfined	1724	Grassy Meadow, forest			Medium	Sinuuous channel
MEC-R2(4-5a)		Watercourse			Unconfined	199	Grassy meadow			Medium	
MEC-R3	MEC-R4 and R5	Watercourse			Unconfined	1035	Grassy Meadow	Erosion	In Regime	Medium	Erosion u/s left side of bridge eroding into road, severe, pylon marked there, road cracking over bridge, channel widening at road, d/s backwatered by debris
MEC-R3(1)	MEC-R22	Watercourse			Unconfined	460	Grassy Meadow		Not Assessed	Medium	
MEC-R4	MEC-R6	Watercourse			Unconfined	1445	Grassy meadow, trees		Transitional	Medium	
MEC-R4(2)	MEC-R25	Watercourse			Confined	627	Forested		In Regime	High	Highly sinuous, confined
MEC-R4(3)		Watercourse			Unconfined	1333	Cropland			Medium	Road closed, could not access
MEC-R4(4)		Watercourse			Unconfined	834	Forest			Medium	
MEC-R4(5)		Watercourse			Unconfined	1041	Cropland			Low	Road cracking over culvert, abundant instream veg, standing water, ds culvert entrance blocked by veg
MEC-R4(6)		Watercourse			Unconfined	629	Cropland			Low	Road cracking over culvert, instream vegetation us and ds, difficult to see channel definition
MEC-R4(7)	MEC-R30 and R32	Watercourse			Unconfined	2456	Cropland		In Regime	Low	In farm field, defined, road closed could not access
MEC-R4(8)	MEC-R31	Watercourse			Unconfined	1899	Cropland		Not Assessed	Low	In farm field, defined, road closed could not access
MEC-R4(8a)		Watercourse			Unconfined	296	Cropland			Low	In farm field, defined
MEC-R5	MEC-R7	Watercourse			Unconfined	1934	Cropland		In Regime	Medium	At Credit view d/s steep right bank, recent riprap against embankment, no water, channel flows through 3 HDP culverts within concrete box; at Chinguacousy Rd. road closed could not access, new bridge being put in during construction

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MEC-R5(2)		Watercourse			Unconfined	1520	Cropland	Erosion		Medium	Straightened along road, erosion on right bank, some rounded stone placed on bank, debris jam d/s of skewed CSP
MEC-R6		Watercourse			Unconfined	1713	Cropland			Medium	Straightened at road, skewed concrete box culvert that is crumbling, pooled water at outlet, abundant instream veg impeding flow further ds
MEC-R6(1)		Watercourse			Unconfined	1024	Cropland			Medium	Appears straightened
MEC-R6(1b)		Watercourse			Unconfined	200	Forested			High	Forested, meandering
MEC-R6(2)		Watercourse			Unconfined	414	Cropland			Low	Straightened, new culvert, cattails in channel, standing water, no defined banks
MEC-R7		Watercourse			Unconfined	1569	Cropland	Erosion		Medium	Erosion left bank at culvert, no armouring, standing water with algae, bank height vertical 1 m
MEC-R7(1)		Watercourse			Unconfined	857	Forested			Low	Appears straightened
MEC-R7(2)		Watercourse			Unconfined	421	Forested			Medium	
SC(1)		Watercourse		Y	Confined	1976	Forested, within valley	Erosion		High	Widening and erosion at concrete box culvert, broken limestone block in channel at crossing, water pooled in widened area at culvert, otherwise channel is grass lined and narrow
SC(2)		Watercourse		Y	Confined	2416	Forested, within valley	Erosion		High	Widening and erosion at concrete box culvert, broken limestone block in channel at crossing, water pooled in widened area at culvert, otherwise channel is grass lined and narrow
SC(2)1-1		Watercourse		N	Unconfined	561	Cropland			Low	In farm field, channel looks well defined
SC(3)		Watercourse		Y	Confined	1931	Forested, within valley			High	Upstream sinuous channel, narrow approx. 2 m wide, low bank angles, instream vegetation, large concrete box culvert, standing water; downstream channel slightly wider 3 m, abundant cattails, standing water
SC(3)2-1		Watercourse		Y	Unconfined	1094	Grass, Trees, Cropland	Erosion		Medium	Culvert and road cracking above watercourse, abundant grass in channel, minimal water
SC(3)2-2		Watercourse		Y	Unconfined'	2484	Grass, cropland	Erosion		Medium	Erosion occurring near driveway, frogs present
SC(4)		Watercourse		Y	Unconfined	2175	Grassy floodplain, in valley	Erosion		High	Erosion at Old School Rd crossing at culvert, culvert cracking, frogs present, abundant grass in channel; Airport Rd crossing, new gabions next to culvert,

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											channel choked with vegetation, banks vertical, soft substrate
SC(4)1-1		Watercourse		N	Unconfined	969	Cropland			Low	Can't see from road, channel appears straightened
SC(4)2-1		Watercourse		N	Unconfined	1074	Grassy meadow, cropland			Medium	Can't see from road, sinuous through meadow, appears straightened through farm field, well defined channel
SC(4)2-2		Watercourse		N	Unconfined	874	Cropland			Low	Can't see from road, appears straightened through farm field
SC(5)		Watercourse		Y	Unconfined	4187	Grassy meadow, cropland			Medium	Airport Rd crossing stnading water, narrow channel, choked by vegetation; King St crossing concrete box culvert cracking, lined with gabions on upstream, no armouring downstream, standing water, soft substrate, abundant cattails
SC(5)1-1		Watercourse		Y	Unconfined	2748	Grassy meadow, cropland			Medium	Concrete box culvert, choked by vegetation upstream and downstream, standing water, channel runs between farm fields
TCC(1)		Watercourse		Y	Unconfined	531	Grassy floodplain, some trees			Medium	Sinuous, CSP culvert, channel full of grass, no erosion
TCC(10)		Watercourse		N	Confined	789	Forested, within valley			High	Can't see from road, channel very sinuous, valley wall contact
TCC(11)		Watercourse		Y	Confined	815	Cropland, grass			Medium	Partially straightened, channel filled with grass, banks stable
TCC(12)		Watercourse		Y	Unconfined	168	Grass			Low	Channel filled with cattails, potentially straightened
TCC(13)		Watercourse		N	Unconfined	543	Cropland			Low	Sinuous through cropland
TCC(2)		Watercourse		N	Unconfined	96	Grassy floodplain			Low	Can't see from road, very small tributary
TCC(3)		Watercourse		N	Unconfined	926	Grass, cropland			Medium	Can't see from road, sinuous channel
TCC(3)1		Watercourse		N	Unconfined	94	Grass, cropland			Low	Can't see from road, straightened
TCC(4)		Watercourse		N	Unconfined	758	Hedgerow, cropland			Medium	Straightened in sections
TCC(8)		Watercourse		N	Confined	649	Forested, within valley			High	Sinuous, confined within valley
TCC(8)1-1a		Watercourse		Y	Confined	460	Forested, within valley	Erosion		High	Dry at culvert, incision and erosion occurring at crossing, narrow channel, steep vertical banks
WHT(A)		Watercourse		N	Unconfined	3226	Cropland			Medium	Countryside crossing new bridge constructed, downstream entrance

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											choked with cattails, outfall on left bank, upstream new development and ESC Fencing in place; Mayfield crossing water present and flowing through CSP, some cattails
WHT1(1)		Watercourse		N	Unconfined	784	Some trees and shrubs			Medium	*Road closed at Countryside, new bridge being built
WHT1(2)		Watercourse		N	Unconfined	617	Forested			Medium	
WHT1(3)		Watercourse		Y	Unconfined	782	Open floodplain	Deposition		Medium	High density of cattails in channel, deposition
WHT1(4)		Watercourse		N	Unconfined	938	Forested			Medium	
WHT1(5)		Watercourse		Y	Unconfined	829	Cropland and Cattails			Medium	Cattails, dry, channel poorly defined
WHT1(6)		Watercourse		Y	Unconfined	1972	Cropland	Erosion		Medium	Well defined, dry, steep banks, high in-stream vegetation
WHT1(6)1-1		Watercourse		Y	Unconfined	809	Grass, cattails			Medium	Poorly defined, well vegetated
WHT1(6)3-1		Watercourse		Y	Unconfined	874	Cropland	Erosion		Medium	Incising at culvert, bank erosion, dry
WHT1(6)4-1		Watercourse		Y	Unconfined	1226	Cropland			Low	Downstream High in-stream vegetation, steep banks, dry
WHT2		Watercourse		Y	Confined	2239	Forest	Erosion		High	Within valley, low bank angles, minor erosion, much lower than road
WHT2(1)		Watercourse		Y	Confined	2814	Forest			High	Within valley
WHT2(1)1-1		Watercourse		Y	Unconfined	1588	Cropland, some trees			Medium	Well defined, straightened through farm fields
WHT2(1)2-1		Watercourse		Y	Unconfined	1243	Trees			Low	Armoured near crossing, very defined
WHT2(2)		Watercourse		Y	Confined	2063	Forested, valley	Erosion		High	Within valley, widening at crossing, banks well vegetated
WHT2(2)1-1		Watercourse		N	Confined	200	Trees			High	
WHT2(2)1-1a		Watercourse		N	Unconfined	304	Cropland			Medium	
WHT2(3)		Watercourse		Y	Confined	1141	Forested, valley			High	
WHT2(4)		Watercourse		Y	Confined	2171	Forested, valley			High	High instream vegetation, no erosion
WHT2(4)1-1		Watercourse		N	Confined	424	Trees, cropland			Medium	Adjacent to Study area
WHT2(4)2-1		Watercourse		Y	Unconfined	790	Trees, cropland			Medium	Adjacent to Study area
WHT2(4)5-1		Watercourse		N	Unconfined	1017	Trees			High	Adjacent to Study area
WHT2(5)		Watercourse		N	Confined	1254	Forested, valley			High	Adjacent to Study area
WHT2(5)3-1		Watercourse		N	Unconfined	346	Trees, forest			Medium	Adjacent to Study area, confined
WHT2(5)4-1		Watercourse		N	Unconfined	124	Trees			Medium	Adjacent to Study area
WHT2(5)5-1		Watercourse		N	Unconfined	358	Trees, cropland			Medium	Adjacent to Study area

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WHT2(5)6-1		Watercourse		Y	Unconfined	676	Trees, forest	Deposition		High	Adjacent to Study area, confined, grass lined channel
WHT2(5)6-2		Watercourse		N	Unconfined	2040	Cropland			Medium	Adjacent to Study area
WHT2(5)6-2a		Watercourse		N	Unconfined	502	Cropland			Medium	Adjacent to Study area
WHT2(5)7-1		Watercourse		Y	Unconfined	2233	Cropland			Medium	Straightened through farm fields, channel filled with vegetation, dry, armoured at culvert which looks new
WHT2(6)		Watercourse		Y	Confined	602	Cropland			Medium	Grass-lined channel, narrow
WHT2(7)		Watercourse		Y	Unconfined	2473	Cropland, trees			Medium	Twin plastic pipes. Channel filled with cattails both sides, standing water, defined channel
WHT2(7)1-1		Watercourse		N	Unconfined	1019	Cropland			Low	Poorly defined channel
WHT2(7)1-1c		Watercourse		Y	Unconfined	570	Cropland			Low	Dry, not well defined at road
WHT2(8)3		Watercourse		N	Confined	2166	Forest, trees			High	Adjacent to study area, confined
WHT2(9)		Watercourse		Y	Unconfined	2190	Forested, tall grass	Deposition		Medium	High instream vegetation, choked with cattails, standing water, bank armouring near crossing, channel very narrow compared to culvert
WHT2(9)3-1		Watercourse		Y	Unconfined	2248	Cropland			Low	Concrete box culvert choked with cattails, standing water, willow over channel, poorly defined
WHT2-1		Watercourse		Y	Confined	616	Trees, cattails			Medium	marshy/swampy, lots of cattails
WHT2-3		Watercourse		Y	Unconfined	366	Shrubs, grass, trees			Medium	Grass-lined channel, dry
WHT3(1)		Watercourse		Y	Confined	2016	Forested, within valley	Deposition		High	Sinuuous, within valley, minor bank erosion at crossing, but deposition at culvert, frogs present, standing water, concrete box culvert
WHT3(2)		Watercourse		Y	Unconfined	670	Trees, cropland	Erosion		Medium	Minor bank erosion at crossing, frogs present, standing water, concrete box culvert
WHT3(3)		Watercourse		Y	Unconfined	2503	Cropland			Medium	Upstream water is pooled at CSP, cattails and filled with vegetation, channel approx 2 to 3 m wide, downstream choked by cattails
WHT3(3)2-1		Watercourse		N	Unconfined	691	Cropland			Low	Within farm field, looks very defined and contains water
WHT3(3)3-1		Watercourse		N	Unconfined	385	Cropland			Low	Within farm field, looks very defined and contains water
WHT3(4)		Watercourse		Y	Unconfined	1206	Cropland	Erosion		Medium	Ditch incising along road, standing water, abundant in channel vegetation
WHT3(5)		Watercourse		Y	Confined	1365	Forested, within valley			High	Outlet partially blocked by willow, channel contains grass and cattails,

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											sinuous, room in floodplain for meandering
WHT3(5)2-1		Watercourse		Y	Unconfined	913	Grass, trees	Deposition		Medium	CSP, upstream channel is filled with grass, minimal water, sinuous; downstream cattails in channel, deposition is high
WHT3(5)2-1a		Watercourse		Y	Unconfined	302	Cropland, grass	Erosion		Medium	Incision at culvert, some older culvert armouring, otherwise well vegetated, north side looks like a ditch
WHT3(6)		Watercourse		Y	Confined	1213	Forested, within valley	Erosion		High	Concrete box culvert, partially confined, standing water, bordered by willows, low bank angles, minor bank erosion
WHT3(7)		Watercourse		N	Unconfined	2369	Forest, grass, cropland			Medium	Parts of reach appear straightened, sinuous through patch of trees
WHT3(7)1-1		Watercourse		Y	Unconfined	3047	Grass, cropland			Low	North side poorly defined grass lined channel; south side ditch along road, fence crosses watercourse and flows around a fill pile
WHT3(7)3-1		Watercourse		N	Unconfined	219	Trees, grass			Medium	Sinuous through trees
WHT4(1)		Watercourse		N	Confined	2052	Forested, within valley			High	Bridge crossing newly constructed, channel likely realigned recently, abundant instream vegetation, channel stable
WHT4(1)1-1		Watercourse		N	Confined	1423	Forested, within valley			High	Road under construction at time
WHT4(1)1-1a		Watercourse		N	Confined	418	Forested			Medium	Couldn't see from road
WHT4(1)2-1		Watercourse		N	Unconfined	1481	Grassy meadow, cropland			Medium	Road under construction at time
WHT4(1)3-1		Watercourse		N	Unconfined	1599	Grassy meadow, cropland			Low	Part of reach potentially HDF, slight sinuosity through grassy meadow
WHT4(1)6-1		Watercourse		Y	Unconfined	2789	Cropland			Low	Mayfield crossing: abundant instream vegetation, minimal water, stable; at Bramalea Rd channel outlets into a swamp, abundant cattails, defined channel beyond cattails
WHT4(2)		Watercourse		Y	Confined	1734	Forested, within valley	Erosion		High	Large cut out CSP with culvert bottom exposed, channel very shaded from overhanging vegetation, heavily forested, riffle near upstream crossing, CSP becoming undermined
WHT4(2)1		Watercourse		Y	Unconfined	550	Cropland			Low	Potential HDF, grassy channel, slightly sinuous

Reach	Old Reach ID (Mayfield West SWS)	Feature Type	HDF Type	Windshield Assessed (Y/N)	Valley Setting	Channel Length (m)	Vegetation	Erosion / Deposition	RGA Condition (Mayfield West SWS)	Geomorphic Constraint	Notes / Observations
WHT4(3)		Watercourse		Y	Confined	3336	Forested, within valley			High	Upstream dry, heavily forested, channel approx. 5 m wide; downstream steep drop from road, debris jam, falling and leaning trees, standing water
WHT4(3)1-1		Watercourse		N	Confined	456	Within valley, golf course			High	Within valley, outlets from pond, adjacent to golf course
WHT4(3)2-1		Watercourse		Y	Confined	1720	Within valley, golf course			High	Within valley, runs through golf course, sinuous channel, looks grass-lined near Torbram Road
WHT4(3)3-1		Watercourse		Y	Unconfined	2610	Trees, grassy meadow			Medium	Upstream fish present, concrete box culvert, banks vertical but well vegetated; downstream culvert cracking, banks well vegetated
WHT4(3)3-1a		Watercourse		N	Unconfined	352	Cropland, pond			Low	Drains into and out from pond, defined channel
WHT4(3)4-1		Watercourse		N	Confined	936	Trees, grassy meadow, within valley			High	Moderate sinuosity, room to meander in floodplain
WHT4(3)4-2		Watercourse		Y	Unconfined	749	Trees, piped			Low	Channel appears piped through property
WHT4(3)5-1		Watercourse		Y	Confined	627	Forested, within valley			High	Small concrete culvert, cracking, channel choked with cattails upstream and downstream, no water, downstream of golf course
WHT4(3)5-2		Watercourse		Y	Unconfined	1116	Golf course	Erosion		Medium	Reach flows through two ponds, appears straightened; downstream right bank is eroding, very steep
WHT4(3)6-1		Watercourse		N	Confined	516	Trees, golf course			Medium	Partially confined, downstream of golf course
WHT4(3)7-1		Watercourse		N	Confined	452	Trees, cropland			Medium	Channel appears straightened, no sinuosity
WHT4(3)8-1		Watercourse		Y	Confined	3454	Grassy meadow, cropland			Medium	Dixie Rd Crossing concrete box culvert, frogs present, left bank has armourstone, coarse platy bed, algae in standing water; downstream less defined, more vegetation in channel, soft substrate.
WHT4(4)		Watercourse		Y	Unconfined	622	Trees, pond			Medium	Area upstream trees in and drains into pond
WHT1(3)1-1		Pond		N		74	Forested floodplain				Channel flowing from pond
CCC(1)1-2		HDF	Swale	Y		1210	Cropland				Swale, dry, stone near road
FC(2)		HDF	Swale			1006					Area is being graded for a SWM pond
FC(2a)		HDF	Swale			355					
FC(4a)		HDF	Swale			406					
FC(4b)		HDF	Swale			263					

Reach	Old Reach ID (Mayfield West SWS)	Feature Type	HDF Type	Windshield Assessed (Y/N)	Valley Setting	Channel Length (m)	Vegetation	Erosion / Deposition	RGA Condition (Mayfield West SWS)	Geomorphic Constraint	Notes / Observations
FC(5)		HDF	Swale			414					Dry 3rd visit
FC(6)		HDF	Swale			922					Dry 3rd visit
HRT(11)2		HDF		N		225	Cropland				Swale that turns into a ditch along Duffy's
HRT(12)1-1		HDF		N		215	Trees				Can't see from road, originates from pond
HRT(12)2-1a		HDF		N		837	Cropland				Can't see from road, swale
HRT(12)3-1		HDF		N		705	Cropland				Straightened HDF
HRT(2)1-1ab		HDF	Piped	N		182	Cropland, piped				Can't see from road, partially piped
HRT(2)1-1b		HDF	Swale	N		83	Cropland				Can't see from road, swale
HRT(2)1-1ef		HDF	Swale	N		169	Cropland				Can't see from road, swale
HRT(2)1-1f		HDF	Swale	N		290	Cropland				Can't see from road, swale
HRT(2)1-1fg		HDF	Swale	N		82	Cropland				Can't see from road, swale
HRT(2)3-1		HDF	Ditch	Y		411	Ditch				Ditch with cattails
HRT(2)4-1		HDF	Swale	Y		657	Cropland				Swale through corn field, dry
HRT(4)		HDF	Swale	N		465	Hedgerow, cropland				Straight feature along hedgerow
HRT(4)1-1		HDF	Swale	Y		437	Cropland				Swale, dry
HRT(4)1-1a		HDF	Swale	N		293	Cropland				Can't see from road, swale
HRT(4)1-1b		HDF	Swale	N		152	Cropland				Can't see from road, swale
HRT(8)1-1		HDF		N		303	Trees, cropland				Can't see from road, swale
HRT(8)1-1a		HDF		N		108	Cropland				Can't see from road, swale
HRT(9)1-1a		HDF		N		317	Cropland				Swale
MEC-R2(3-11)		HDF	Swale			455	Cropland				
MEC-R2(3-11a)		HDF	Swale			503	Cropland				
MEC-R2(3-11b)		HDF	Swale			79	Cropland				
MEC-R2(3-11c)		HDF	Swale			77	Cropland				
MEC-R2(3-1a)		HDF	Swale			568	Cropland				
MEC-R2(3-2)2a		HDF	Defined Channel			468	Cropland				
MEC-R2(3-2)3a		HDF	Swale			529	Cropland				
MEC-R2(3-4a)		HDF	Swale			580	Cropland				
MEC-R2(3-4b)		HDF	Swale			149	Cropland				
MEC-R2(3-4d)		HDF	Swale			113	Cropland				
MEC-R2(3-4e)		HDF	Swale			116	Cropland				
MEC-R2(3-6b)		HDF	Defined Channel			315	Cropland, forest				
MEC-R2(3-7b)		HDF	Swale			955	Cropland				
MEC-R2(3-7c)		HDF	Swale			727	Cropland				
MEC-R2(3-8a)		HDF	Swale			110	Cropland				
MEC-R2(3-8b)		HDF	Swale			277	Cropland				
MEC-R2(3-8d)		HDF	Swale			297	Cropland				
MEC-R2(4-4c)		HDF	Swale			137	Cropland				

Reach	Old Reach ID (Mayfield West SWS)	Feature Type	HDF Type	Windshield Assessed (Y/N)	Valley Setting	Channel Length (m)	Vegetation	Erosion / Deposition	RGA Condition (Mayfield West SWS)	Geomorphic Constraint	Notes / Observations
MEC-R2(4-5b)		HDF	Swale			548	Cropland				
MEC-R2(4-5c)		HDF	Swale			96	Cropland				
MEC-R2(a)		HDF	Swale			177	Cropland				
MEC-R2(b)		HDF	Swale			326	Cropland				
MEC-R2(c)		HDF	Swale			461	Cropland				
MEC-R2(d)		HDF	Swale			713	Cropland			High	Within valley
MEC-R3(2)		HDF	Defined Channel			1475	Cropland				Dry us and ds, u/s was planted through d/s wasn't
MEC-R3(2a)		HDF	Swale			645	Cropland				
MEC-R4(1)		HDF	Swale			624	Cropland				
MEC-R4(1a)		HDF	Swale			634	Cropland				
MEC-R4(1b)		HDF	Swale			175	Cropland				
MEC-R4(8b)		HDF				535	Cropland				
MEC-R5(1)		HDF				684	Cropland				
MEC-R5(1a)		HDF				338	Cropland				
MEC-R5(2a)		HDF				1536	Cropland				
MEC-R5(2b)		HDF				631	Cropland				
MEC-R5(2c)		HDF				345	Cropland				
MEC-R6(1a)		HDF				1271	Cropland				
MEC-R6(2a)		HDF				1113	Cropland				
MEC-R7(1a)		HDF	Swale			822	Cropland				
MEC-R7(1b)		HDF	Swale			153	Cropland				
SC(2)2-1		HDF	Swale	N		467	cropland				Can't see from road, swale
SC(2)2-1a		HDF	Swale	N		244	cropland				Can't see from road, swale
SC(2)2-1b		HDF	Swale	N		1186	cropland				
SC(3)1-1		HDF	Swale	Y		1259	Cropland				Swale through corn field, dry
SC(3)2-2a		HDF	Piped	Y		889	Cropland				Piped on downstream end below farm, at crossing flows through CSP
SC(4)1-2		HDF	Swale	N		1278	Cropland				Can't see from road, swale
SC(4)1-2a		HDF	Swale	N		299	Cropland				Can't see from road, swale
SC(4)2-2a		HDF	Swale	N		901	Cropland			Medium	Can't see from road, swale
SC(5)2-1		HDF	Swale	Y		803	Grassy meadow, cropland				Lined with cattails, dry
TCC(11)1-1		HDF	Swale	N		760	Cropland				Can't see from road, swale
TCC(11)1-1a		HDF	Swale	N		91	Cropland				Can't see from road, swale
TCC(11)1-1c		HDF	Swale	N		123	Cropland				Can't see from road, swale
TCC(11)2-1a		HDF				344					
TCC(11)2-1b		HDF				377					
TCC(11)2-1c		HDF				310					
TCC(12)1		HDF	Swale	N		508	Cropland				Can't see from road, swale
TCC(3)2		HDF	Swale	Y		269	Cropland				Swale, dry

Reach	Old Reach ID (Mayfield West SWS)	Feature Type	HDF Type	Windshield Assessed (Y/N)	Valley Setting	Channel Length (m)	Vegetation	Erosion / Deposition	RGA Condition (Mayfield West SWS)	Geomorphic Constraint	Notes / Observations
TCC(5)1		HDF		N		408	Cropland, trees				Can't see from road
TCC(5)2		HDF		N		240	Cropland, trees				Can't see from road
TCC(6)		HDF	Swale	N		437	Cropland				Can't see from road, swale
TCC(7)		HDF	Swale	N		355	Cropland				Can't see from road, swale
TCC(7)1-1a		HDF	Swale	N		121	Cropland				Can't see from road, swale
TCC(7)1-1b		HDF	Swale	N		88	Cropland				Can't see from road, swale
TCC(7)1-2a		HDF	Swale	N		207	Cropland				Can't see from road, swale
TCC(7)1-2b		HDF	Swale	N		152	Cropland				
TCC(8)1-1b		HDF	Defined Channel	Y		197	Cropland	Erosion			Dry, erosion at plastic culvert
TCC(9)		HDF	Swale	Y		331	cropland				Dry, swale
TCC(9)1-1a		HDF	Swale	Y		189	cropland				Ditch with cattails
TCC(9)1-1b		HDF	Swale	Y		276	cropland				Dry, swale
WHT1(4)1-1		HDF	Swale	Y		693	Cropland				Dry
WHT1(4)1-1a		HDF	Swale	Y		145	Cropland				Dry
WHT1(4)1-1b		HDF	Swale	Y		121	Cropland				Dry
WHT1(4)2-1		HDF	Swale	N		445	Cropland				
WHT1(4)3-1		HDF	Swale	N		353	Cropland				Vague swale
WHT1(4)4-1		HDF	Defined Channel	Y		409	Cropland				Defined channel, substrate sorting
WHT1(4)5-1		HDF	Swale	N		592	Cropland				
WHT1(4)5-1a		HDF	Swale	N		355	Cropland				Vague swale
WHT1(5)1-1		HDF	Swale	N		476	Cropland				
WHT1(5)2-1		HDF	Swale, Pond	N		1837	Cropland				
WHT1(6)1-1a		HDF	Swale	Y		184	Hedgerow				
WHT1(6)1-2		HDF	Ditch	Y		319	Forest, grass	Erosion			Banks undercutting towards road
WHT1(6)1-2a		HDF	Defined Channel	Y		238	Cropland	Erosion			Steep banks, coarse substrate
WHT1(6)1-2b		HDF	Ditch	Y		290	Residential				
WHT1(6)1-3		HDF	Swale	N		571	Cropland				
WHT1(6)1-3a		HDF	Defined Channel	Y		607	Cropland	Erosion			Large boulders in front of culvert on west side, defined channel east side
WHT1(6)1-3b		HDF	Swale	Y		150	Cropland				
WHT1(6)1-3c		HDF	Swale	Y		579	Cropland				
WHT1(6)1-4		HDF	Swale	N		1012	Cropland				
WHT1(6)1-4a		HDF	Swale	N		302	Cropland				
WHT1(6)1-4b		HDF	Swale	N		285	Cropland				
WHT1(6)1-5		HDF	Swale	N		634	Cropland				
WHT1(6)1-5a		HDF	Swale	N		428	Cropland				
WHT1(6)1-5b		HDF	Swale	N		177	Cropland				
WHT1(6)1-5c		HDF	Swale	N		97	Cropland				

Reach	Old Reach ID (Mayfield West SWS)	Feature Type	HDF Type	Windshield Assessed (Y/N)	Valley Setting	Channel Length (m)	Vegetation	Erosion / Deposition	RGA Condition (Mayfield West SWS)	Geomorphic Constraint	Notes / Observations
WHT1(6)2-1		HDF	Swale	Y		839	Cropland				
WHT1(6)4-2		HDF	Swale	N		571	Cropland				
WHT1(6)4-3		HDF	Swale	Y		276	Cropland				Dry
WHT1(6)4-4		HDF	Swale	Y		318	Cropland				Dry
WHT1(6)4-5		HDF	Swale	N		684	Cropland				
WHT1(6)4-5a		HDF	Swale	Y		278	Cropland				Dry
WHT1(6)4-5b		HDF	Swale	Y		88	Cropland				
WHT1(6)4-6		HDF	Swale	N		356	Cropland				
WHT1(6)4-7		HDF	Swale	Y		607	Cropland				Dry
WHT1(6)5-1		HDF	Swale	Y		282	Cropland				Dry
WHT1(7)		HDF	Defined Channel	Y		783	Cropland				Defined, well vegeated, steep banks
WHT1(7)1-1		HDF	Swale	N		667	Cropland				
WHT1(7)1-1a		HDF	Swale	N		163	Cropland				
WHT1(7)1-1b		HDF	Swale	N		407	Cropland				
WHT1(8)		HDF	Swale	N		1101	Cropland				
WHT1(8)1-1		HDF	Swale	N		467	Cropland				
WHT1(8)1-1a		HDF	Swale	N		340	Forest				
WHT1(8)1-1b		HDF	Swale	N		97	Forest				
WHT1(8)2-1		HDF	Swale	N		469	Cropland				
WHT2(1)1-1a		HDF	Swale	Y		242	Cropland				
WHT2(1)1-1b		HDF	Defined Channel	Y		802	Cropland				Defined, east side ditch, high instream vegetation
WHT2(1)1-1c		HDF	Swale	Y		1207	Cropland				
WHT2(1)2-1a		HDF	Swale	N		500	Cropland				
WHT2(1)2-1b		HDF	Swale	N		814	Cropland				
WHT2(1)3-1		HDF	Swale	N		241	Cropland				
WHT2(3)1-1		HDF	Defined Channel	Y		740	Trees				Dry
WHT2(3)1-1a		HDF	Swale	N		115	Cropland				
WHT2(4)2-1a		HDF		N		161	Cropland				Adjacent to Study area
WHT2(4)2-1b		HDF		N		158	Forested				Adjacent to Study area
WHT2(4)3-1		HDF	Swale	Y		807	Trees, cropland				Adjacent to Study area
WHT2(4)4-1		HDF	Swale	Y		583	Trees, cropland				Adjacent to Study area
WHT2(5)1-1		HDF		N		507	Cropland				Adjacent to Study area
WHT2(5)1-2		HDF	Swale	Y		605	Cropland				Dry
WHT2(5)1-2a		HDF	Swale	Y		111	Cropland				Dry
WHT2(5)2-1		HDF	Swale	Y		580	Cropland				Dry
WHT2(5)4-2		HDF	Defined Channel	Y		403	Cropland				Defined in field, dry, sinuous
WHT2(5)4-2a		HDF	Swale	Y		363	Cropland				Dry

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WHT2(5)5-2		HDF		N		727	Cropland				Adjacent to Study area
WHT2(5)5-2a		HDF		N		126	Cropland				Adjacent to Study area
WHT2(5)7-1a		HDF		N		294	Cropland				Can't see from road
WHT2(5)7-1b		HDF		N		85	Cropland				Can't see from road
WHT2(5)7-1c		HDF		N		121	Cropland				Can't see from road
WHT2(5)7-2		HDF		N		926	Cropland				Can't see from road
WHT2(5)7-2a		HDF		N		178	Cropland				Can't see from road
WHT2(5)7-3		HDF		N		706	Cropland				Can't see from road
WHT2(5)7-3a		HDF		N		132	Cropland				Can't see from road
WHT2(5)7-3b		HDF		N		86	Cropland				Can't see from road
WHT2(5)7-3c		HDF	Swale	Y		164	Cropland				Dry
WHT2(7)1-1a		HDF		N		360	Cropland				
WHT2(7)1-1b		HDF		Y		1104	cropland, ditch				Ditch along Goreway north of King, cattails throughout
WHT2(7)1-1d		HDF	Swale	Y		895	Cropland				Ddry
WHT2(7)2-1		HDF	Swale	Y		521	Cropland				Abundant cattails, no defined channel
WHT2(7)2-1a		HDF		N		1080	Hedgerow, cropland				Can't see from road
WHT2(7)2-1b		HDF		N		129	Cropland				Can't see from road
WHT2(7)2-1c		HDF	Swale	Y		627	Hedgerow, cropland				Straightened HDF between properties
WHT2(7)3-1		HDF		N		505	Cropland				Can't see from road
WHT2(7)4-1		HDF		N		151	Cropland				Can't see from road
WHT2(8)		HDF	Defined Channel	Y		599	Cropland				Grass-lined, defined
WHT2(8)1-1		HDF		N		196	Cropland				Can't see from road
WHT2(8)2-1		HDF		N		1645	Cropland				Can't see from road
WHT2(8)2-1a		HDF		N		521	Cropland				Can't see from road
WHT2(9)1-1		HDF		N		955	Cropland				Can't see from road
WHT2(9)2-1		HDF	Swale	Y		1096	Cropland				Dry, 1 m concrete culvert, abundant cattails, no definition
WHT2(9)3-2		HDF	Swale	Y		1491	Cropland				Dry, 1 m concrete culvert, abundant cattails, no definition
WHT2(9)3-2b		HDF		N		143	Cropland				Can't see from road, evident on map
WHT2-1a		HDF	Swale	Y		769	Cropland				
WHT2-1b		HDF	Swale	N		236	Cropland				
WHT2-2		HDF	Swale	Y		994	Cropland				
WHT2-2a		HDF	Swale	N		787	Cropland				
WHT2-4		HDF	Defined Channel	Y		1254	Cropland				Grass-lined before farm field
WHT2-5		HDF	Swale	N		742	Cropland				
WHT2-5a		HDF	Swale	N		418	Cropland				
WHT2-5b		HDF	Swale	N		208	Cropland				

Reach	Old Reach ID (Mayfield West SWS)	Feature Type	HDF Type	Windshield Assessed (Y/N)	Valley Setting	Channel Length (m)	Vegetation	Erosion / Deposition	RGA Condition (Mayfield West SWS)	Geomorphic Constraint	Notes / Observations
WHT2-5c		HDF	Swale	N		372	Cropland				
WHT3(1)1-1		HDF	Swale	Y		501	Residential				Straightened through properties
WHT3(3)1-1		HDF	Swale	Y		879	Cropland				Swale, dry
WHT3(3)2-1a		HDF		N		851	Cropland				Can't see from road, swale
WHT3(3)2-1b		HDF		N		411	Cropland				Can't see from road, swale
WHT3(3)3-1a		HDF		N		904	Cropland				Can't see from road, swale
WHT3(3)3-1b		HDF		N		110	Cropland				Can't see from road, swale
WHT3(3)3-1c		HDF		N		690	Cropland				Can't see from road, swale
WHT3(3)4-1		HDF		N		761	Cropland				Can't see from road, swale
WHT3(3)5-1		HDF		N		824	Cropland				Can't see from road, swale
WHT3(4)1-1		HDF		N		89	Cropland				Can't see from road, swale
WHT3(4)2-1		HDF		N		566	Cropland				Can't see from road, swale
WHT3(4)2-1a		HDF		N		309	Cropland				Can't see from road, swale
WHT3(4)2-1b		HDF		N		334	Cropland				Can't see from road, swale
WHT3(5)1-1		HDF	Defined Channel	N		708	Trees, cropland				Can't see from road, appears defined
WHT3(5)3-1		HDF	Swale	N		842	Cropland				Can't see from road, swale
WHT3(5)3-1a		HDF	Swale	N		209	Cropland				Can't see from road, swale
WHT3(7)2-1		HDF	Swale	N		499	Cropland				Can't see from road, swale
WHT3(7)3-2		HDF	Swale	N		463	Cropland				Can't see from road, swale, appears straightened
WHT3(7)4-1		HDF	Defined Channel	Y		620	Cropland, grass				Cattails, swale, dry
WHT3(7)4-2		HDF	Swale	Y		383	Cropland				Cattails, swale, dry
WHT3(7)5-1		HDF	Swale	Y		507	Cropland				swale, dry
WHT4(1)1-1b		HDF	Swale	N		411	Cropland				Road under construction at time, looks like swale
WHT4(1)1-2		HDF		N		429	Cropland			Medium	Couldn't see from road, channel appears straightened around property
WHT4(1)2-1a		HDF	Piped	N		968	Piped				Couldn't see from road, Piped under property
WHT4(1)2-1b		HDF	Swale	N		1247	Grass, cropland				Couldn't see from road, looks like a swale through farm field
WHT4(1)2-1c		HDF	Swale	N		74	Cropland				Couldn't see from road, looks like a swale through farm field
WHT4(1)3-1a		HDF	Swale	N		332	Cropland				Couldn't see from road, looks like a swale through farm field
WHT4(1)4-1		HDF	Swale	N		553	Cropland				Couldn't see from road, looks like a swale through farm field
WHT4(1)4-1a		HDF	Swale	N		108	Cropland				Couldn't see from road, looks like a swale through farm field
WHT4(1)5-1		HDF	Swale	N		870	Cropland				Couldn't see from road, looks like a swale through farm field

Reach	Old Reach ID (Mayfield West SWS)	Feature Type	HDF Type	Windshield Assessed (Y/N)	Valley Setting	Channel Length (m)	Vegetation	Erosion / Deposition	RGA Condition (Mayfield West SWS)	Geomorphic Constraint	Notes / Observations
WHT4(1)6-1a		HDF	Defined Channel	N		501	Cropland				Couldn't stop at road, appears defined and contains water
WHT4(1)6-1b		HDF	Swale	N		961	Cropland				Can't see from road, swale
WHT4(1)6-1c		HDF	Swale	N		223	Cropland				Can't see from road, swale
WHT4(2)1-1		HDF	Swale	N		191	Cropland				Can't see from road, swale
WHT4(2)2-1		HDF	Swale	Y		578	Cropland				Swale, dry
WHT4(3)2-2		HDF	Swale	N		556	Cropland, golf course				Can't see from road, drains into golf course, swales throughout farm fields
WHT4(3)2-3		HDF	Swale	N		387	Cropland, golf course				Can't see from road, drains into golf course, swales throughout farm fields
WHT4(3)2-4		HDF	Swale	N		760	Cropland, golf course				Can't see from road, drains into golf course, swales throughout farm fields
WHT4(3)2-5		HDF	Swale	N		751	Cropland, golf course				Can't see from road, drains into golf course, swales throughout farm fields
WHT4(3)4-3		HDF	Swale	Y		881	Cropland				Swale, dry
WHT4(3)5-3		HDF		Y		551	Cropland				Upstream of golf course, swale, dry
WHT4(3)8-1a		HDF	Swale	N		357	Grassy, residential				Swale, dry
WHT4(3)8-1b		HDF	Swale	N		344	Cropland				Swale, dry
WHT4(4)1-1		HDF		N		393	Trees				Couldn't see from road

Appendix E - Table 2 – Erosion Hazard Limits for Watercourses

Reach	Outside of study area (Y/N)	Confinement	Preliminary Meander Belt Width (m)	20% F.O.S (m)	Final Belt Width (m)	Toe Erosion (2 or 8 m)	Physical Top of Slope Used (Y/N)	Erosion Access Allowance (6m)	Total Erosion Hazard Limit (m)	Notes
CCC(1)	Y	Confined	-	-	-	-	-	-	NA	
CCC(1)1-1	Y	Confined	-	-	-	-	-	-	NA	
CCC(2)	N	Confined	-	-	-	-	-	6	65-150	
CCC(3)	N	Confined	-	-	-	8	Varies	6	75-350	
CCC(5)	N	Confined	-	-	-	NA	Y	6	145-390	
CCC(6)	N	Confined	-	-	-	NA	Y	6	235-575	
FC(1)	N	Unconfined	40	8	48	-	-	6	60	
FC(3)	Y	Unconfined	30	6	36	-	-	6	48	Near study area
FC(4)	N	Unconfined	40	8	48	-	-	6	60	Near study area
HRT(1)	Y	Confined	-	-	-	-	-	-	NA	
HRT(1)1-1	Y	Confined	-	-	-	-	-	-	NA	
HRT(1)1-2	Y	Confined	-	-	-	-	-	-	NA	
HRT(10)	Y	Confined	-	-	-	-	-	-	NA	
HRT(11)	Y	Confined	-	-	-	-	-	-	NA	
HRT(11)1	Y	Unconfined	-	-	-	-	-	-	NA	
HRT(12)	Y	Confined	-	-	-	-	-	-	NA	
HRT(12)2-1	N	Unconfined	40	8	48	-	-	6	60	
HRT(12)4-1	Y	Unconfined	34	6.8	40.8	-	-	6	52.8	Near study area
HRT(2)	Y	Confined	-	-	-	-	-	-	NA	
HRT(2)1-1	Y	Confined	-	-	-	-	-	-	NA	
HRT(2)1-1a	Y	Confined	-	-	-	-	-	-	NA	
HRT(2)1-1c	Y	Confined	-	-	-	-	-	-	NA	
HRT(2)1-1d	Y	Confined	-	-	-	-	-	-	NA	
HRT(2)1-1e	Y	Unconfined	-	-	-	-	-	-	NA	
HRT(2)2-1	N	Unconfined	24	4.8	28.8			6	40.8	
HRT(3)	Y	Confined	-	-	-	-	-	-	NA	
HRT(6)	Y	Unconfined	-	-	-	-	-	-	NA	
HRT(6)1	Y	Unconfined	-	-	-	-	-	-	NA	
HRT(7)	Y	Confined	-	-	-	-	-	-	NA	
HRT(8)	Y	Confined	-	-	-	-	-	-	NA	
HRT(8)2-1	Y	Confined	-	-	-	-	-	-	NA	Near study area
HRT(8)2-2	Y	Unconfined	-	-	-	-	-	-	NA	
HRT(8)2-2a	Y	Confined	-	-	-	8	Varies	6	NA	Near study area
HRT(9)	Y	Confined	-	-	-	-	-	6	NA	Near study area
HRT(9)1-1	Y	Unconfined	32	10	42	-	-	6	54	Near study area
HRT(9)1-2a	Y	Unconfined	26	5.2	31.2	-	-	6	43.2	Near study area
MEC-R1	Y	Confined	-	-	-	2	Y	6	NA	Near study area
MEC-R2	N	Confined	-	-	-	8	Varies	6	140-220	
MEC-R2(1)	N	Confined	-	-	-	Varies	Varies	6	90-200	
MEC-R2(2)	N	Confined	-	-	-	Varies	Varies	6	100-205	
MEC-R2(3)	N	Confined	-	-	-	Varies	Varies	6	150-190	
MEC-R2(3-1)	N	Confined	-	-	-	NA	Y	6	85-145	Partially confined

Reach	Outside of study area (Y/N)	Confinement	Preliminary Meander Belt Width (m)	20% F.O.S (m)	Final Belt Width (m)	Toe Erosion (2 or 8 m)	Physical Top of Slope Used (Y/N)	Erosion Access Allowance (6m)	Total Erosion Hazard Limit (m)	Notes
MEC-R2(3-10)	N	Unconfined	14	2.8	16.8	-	-	6	28.8	
MEC-R2(3-2)	N	Unconfined	50	10	60	-	-	6	72	
MEC-R2(3-2)1		Unconfined	20	4	24	-	-	6	36	
MEC-R2(3-2)1a	N	Unconfined	10	2	12	-	-	6	24	
MEC-R2(3-2)1b	N	Unconfined	34	6.8	40.8	-	-	6	52.8	
MEC-R2(3-2)2	N	Unconfined	44	8.8	52.8	-	-	6	64.8	
MEC-R2(3-2)3	N	Unconfined	20	4	24	-	-	6	36	
MEC-R2(3-3)	N	Unconfined	38	7.6	45.6	-	-	6	57.6	
MEC-R2(3-4)	N	Unconfined	32	6.4	38.4	-	-	6	50.4	
MEC-R2(3-5)	N	Unconfined	44	8.8	52.8	-	-	6	64.8	
MEC-R2(3-6)	N	Unconfined	52	10.4	62.4	-	-	6	74.4	
MEC-R2(3-6)1	N	Confined	-	-	-	Varies	Varies	6	95-120	
MEC-R2(3-6a)	N	Unconfined	40	8	48	-	-	6	60	
MEC-R2(3-7)	N	Confined	-	-	-	Varies	Varies	6	75-135	
MEC-R2(3-7a)	N	Unconfined	20	4	24	-	-	6	36	
MEC-R2(3-8)	N	Unconfined	22	4.4	26.4	-	-	6	38.4	
MEC-R2(3-8c)	N	Unconfined	20	4	24	-	-	6	36	
MEC-R2(3-9)	N	Unconfined	22	4.4	26.4	-	-	6	38.4	
MEC-R2(4)	N	Unconfined	18	3.6	21.6	-	-	6	33.6	
MEC-R2(4-3)	N	Confined	-	-	-	2	Varies	6	100-135	
MEC-R2(4-4)	N	Confined	-	-	-	Varies	Varies	6	75-140	
MEC-R2(4-4a)	N	Unconfined	20	4	24	-	-	6	36	
MEC-R2(4-4b)	N	Unconfined	16	3.2	19.2	-	-	6	31.2	
MEC-R2(4-5)	N	Unconfined	32	6.4	38.4	-	-	6	50.4	
MEC-R2(4-5a)	N	Unconfined	18	3.6	21.6	-	-	6	33.6	
MEC-R3	N	Unconfined	26	5.2	31.2	-	-	6	43.2	
MEC-R3(1)	N	Unconfined	22	4.4	26.4	-	-	6	38.4	
MEC-R4	N	Unconfined	30	6	36	-	-	6	48	
MEC-R4(2)	N	Unconfined	62	12.4	74.4	-	-	6	86.4	
MEC-R4(3)	N	Unconfined	17	3.4	20.4	-	-	6	32.4	
MEC-R4(4)	N	Unconfined	20	4	24	-	-	6	36	
MEC-R4(5)	N	Unconfined	20	4	24	-	-	6	36	
MEC-R4(6)	N	Unconfined	40	8	48	-	-	6	60	
MEC-R4(7)	N	Unconfined	24	4.8	28.8	-	-	6	40.8	
MEC-R4(8)	N	Unconfined	16	3.2	19.2	-	-	6	31.2	
MEC-R4(8a)	N	Unconfined	10	2	12	-	-	6	24	
MEC-R5	N	Unconfined	17	3.4	20.4	-	-	6	32.4	
MEC-R5(2)	N	Unconfined	12	2.4	14.4	-	-	6	26.4	
MEC-R6	N	Unconfined	23	4.6	27.6	-	-	6	39.6	
MEC-R6(1)	N	Unconfined	7	1.4	8.4	-	-	6	20.4	
MEC-R6(1b)	N	Unconfined	40	8	48	-	-	6	60	
MEC-R6(2)	N	Unconfined	10	2	12	-	-	6	24	
MEC-R7	N	Unconfined	23	4.6	27.6	-	-	6	39.6	
MEC-R7(1)	N	Unconfined	11	2.2	13.2	-	-	6	25.2	

Reach	Outside of study area (Y/N)	Confinement	Preliminary Meander Belt Width (m)	20% F.O.S (m)	Final Belt Width (m)	Toe Erosion (2 or 8 m)	Physical Top of Slope Used (Y/N)	Erosion Access Allowance (6m)	Total Erosion Hazard Limit (m)	Notes
MEC-R7(2)	N	Unconfined	24	4.8	28.8	-	-	6	40.8	
SC(1)	Y	Confined	-	-	-	-	-	6	NA	
SC(2)	N	Confined	-	-	-	NA	Y	6	80-180	
SC(2)1-1	N	Unconfined	44	8.8	52.8	-	-	6	64.8	
SC(3)	N	Confined	-	-	-	8	Varies	6	90-370	
SC(3)2-1	N	Unconfined	48	9.6	57.6	-	-	6	69.6	
SC(3)2-2	N	Unconfined	68	13.6	81.6	-	-	6	93.6	
SC(4)	N	Unconfined	56	11.2	67.2	-	-	6	79.2	
SC(4)1-1	N	Unconfined	30	6	36	-	-	6	48	
SC(4)2-1	N	Unconfined	54	10.8	64.8	-	-	6	76.8	
SC(4)2-2	N	Unconfined	62	12.4	74.4	-	-	6	86.4	
SC(5)	N	Unconfined	58	11.6	69.6	-	-	6	81.6	
SC(5)1-1	N	Unconfined	22	4.4	26.4	-	-	6	38.4	
TCC(1)	N	Unconfined	26	5.2	31.2	-	-	6	43.2	
TCC(10)	Y	Confined	-	-	-	-	-	-	NA	
TCC(11)	N	Unconfined	48	9.6	57.6	-	-	6	69.6	
TCC(12)	N	Unconfined	28	5.6	33.6	-	-	6	45.6	
TCC(13)	N	Unconfined	30	6	36	-	-	6	48	
TCC(2)	N	Unconfined	16	3.2	19.2	-	-	6	31.2	
TCC(3)	Y	Unconfined	60	12	72	-	-	6	84	
TCC(3)1	Y	Unconfined	16	3.2	19.2	-	-	6	31.2	
TCC(4)	Y	Unconfined	30	6	36	-	-	6	48	
TCC(8)	Y	Confined	-	-	-	-	-	-	NA	
TCC(8)1-1a	Y	Confined	-	-	-	-	-	-	NA	
WHT(A)	Y	Unconfined	24	4.8	28.8	-	-	6	40.8	
WHT1(1)	Y	Unconfined	-	-	-	-	-	-	NA	
WHT1(2)	Y	Unconfined	-	-	-	-	-	-	NA	
WHT1(3)	N	Unconfined	38	7.6	45.6	-	-	6	57.6	
WHT1(4)	N	Unconfined	48	9.6	57.6	-	-	6	69.6	
WHT1(5)	N	Unconfined	32	6.4	38.4	-	-	6	50.4	
WHT1(6)	N	Unconfined	32	6.4	38.4	-	-	6	50.4	
WHT1(6)1-1	N	Unconfined	18	3.6	21.6	-	-	6	33.6	
WHT1(6)3-1	N	Unconfined	26	5.2	31.2	-	-	6	43.2	
WHT1(6)4-1	N	Unconfined	30	6	36	-	-	6	48	
WHT2	Y	Confined	-	-	-	-	-	-	NA	
WHT2(1)	N	Confined	-	-	-	8	Varies	6	195-325	
WHT2(1)1-1	N	Unconfined	34	6.8	40.8	-	-	6	52.8	
WHT2(1)2-1	N	Unconfined	48	9.6	57.6	-	-	6	69.6	
WHT2(2)	N	Confined	-	-	-	Varies	Varies	6	200-385	
WHT2(2)1-1	Y	Confined	-	-	-	8	Varies	6	85-110	
WHT2(2)1-1a	N	Unconfined	28	5.6	33.6	-	-	6	45.6	Near study area
WHT2(3)	Y	Confined	-	-	-	-	-	-	NA	
WHT2(4)	Y	Confined	-	-	-	-	-	-	NA	
WHT2(4)1-1	Y	Confined	-	-	-	-	-	-	NA	

Reach	Outside of study area (Y/N)	Confinement	Preliminary Meander Belt Width (m)	20% F.O.S (m)	Final Belt Width (m)	Toe Erosion (2 or 8 m)	Physical Top of Slope Used (Y/N)	Erosion Access Allowance (6m)	Total Erosion Hazard Limit (m)	Notes
WHT2(4)2-1	N	Unconfined	40	8	48	-	-	6	60	
WHT2(4)5-1	Y	Unconfined	-	-	-	-	-	-	NA	
WHT2(5)	Y	Confined		0	0	Varies	Varies	6	155-290	
WHT2(5)3-1	Y	Unconfined	-	-	-	-	-	-	NA	
WHT2(5)4-1	Y	Unconfined	-	-	-	-	-	-	NA	
WHT2(5)5-1	Y	Unconfined	-	-	-	-	-	-	NA	
WHT2(5)6-1	Y	Unconfined	-	-	-	-	-	-	NA	
WHT2(5)6-2	Y	Unconfined	-	-	-	-	-	-	NA	
WHT2(5)6-2a	Y	Unconfined	-	-	-	-	-	-	NA	
WHT2(5)7-1	N	Unconfined	24	4.8	28.8			6	40.8	
WHT2(6)	N	Confined	-	-	-	2	Varies	6	105-165	
WHT2(7)	N	Unconfined	40	8	48	-	-	6	60	
WHT2(7)1-1	N	Unconfined	36	7.2	43.2	-	-	6	55.2	
WHT2(7)1-1c	N	Unconfined	26	5.2	31.2	-	-	6	43.2	
WHT2(8)3	Y	Confined	-	-	-	-	-	-	NA	
WHT2(9)	N	Unconfined	70	14	84	-	-	6	96	
WHT2(9)3-1	N	Unconfined	42	8.4	50.4	-	-	6	62.4	
WHT2-1	Y	Confined	-	-	-	-	-	-	NA	
WHT2-3	Y	Unconfined	-	-	-	-	-	-	NA	
WHT3(1)	Y	Confined	-	-	-	-	-	-	NA	
WHT3(2)	N	Unconfined	34	6.8	40.8	-	-	6	52.8	
WHT3(3)	N	Unconfined	50	10	60	-	-	6	72	
WHT3(3)2-1	N	Unconfined	46	9.2	55.2	-	-	6	67.2	
WHT3(3)3-1	N	Unconfined	24	4.8	28.8	-	-	6	40.8	
WHT3(4)	N	Unconfined	40	8	48	-	-	6	60	
WHT3(5)	Y	Confined	-	-	-	-	-	-	NA	
WHT3(5)2-1	N	Unconfined	20	4	24	-	-	6	36	
WHT3(5)2-1a	N	Unconfined	14	2.8	16.8	-	-	6	28.8	
WHT3(6)	N	Confined	-	-	-	2	Varies	6	100-175	
WHT3(7)	N	Unconfined	60	12	72	-	-	6	84	
WHT3(7)1-1	N	Unconfined	46	9.2	55.2	-	-	6	67.2	
WHT3(7)3-1	N	Unconfined	30	6	36	-	-	6	48	
WHT4(1)	Y	Confined	-	-	-	-	-	-	NA	
WHT4(1)1-1	Y	Confined	-	-	-	-	-	-	NA	
WHT4(1)1-1a	Y	Confined	-	-	-	-	-	-	NA	
WHT4(1)2-1	N	Unconfined	40	8	48	-	-	6	60	
WHT4(1)3-1	N	Unconfined	24	4.8	28.8	-	-	6	40.8	
WHT4(1)6-1	Y	Unconfined	90	18	108	-	-	6	120	
WHT4(2)	N	Confined	-	-	-	8	Varies	6	130-275	
WHT4(2)1	Y	Unconfined	36	7.2	43.2	-	-	6	55.2	
WHT4(3)	N	Confined	-	-	-	8	Varies	6	175-365	
WHT4(3)1-1	N	Confined	-	-	-	NA	Y	6	NA	Within WHT4(3) valley
WHT4(3)2-1	N	Confined	-	-	-	8	Varies	6	100-170	
WHT4(3)3-1	N	Unconfined	48	9.6	57.6	-	-	6	69.6	

Reach	Outside of study area (Y/N)	Confinement	Preliminary Meander Belt Width (m)	20% F.O.S (m)	Final Belt Width (m)	Toe Erosion (2 or 8 m)	Physical Top of Slope Used (Y/N)	Erosion Access Allowance (6m)	Total Erosion Hazard Limit (m)	Notes
WHT4(3)3-1a	N	Unconfined	34	6.8	40.8	-	-	6	52.8	
WHT4(3)4-1	N	Confined	-	-	-	NA	Y	6	95-180	
WHT4(3)4-2	N	Unconfined	30	6	36	-	-	6	48	
WHT4(3)5-1	N	Confined	-	-	-	2	Varies	6	115-220	
WHT4(3)5-2	N	Unconfined	30	6	36	-	-	6	48	
WHT4(3)6-1	N	Unconfined	28	5.6	33.6	-	-	6	45.6	
WHT4(3)7-1	N	Unconfined	72	14.4	86.4	-	-	6	98.4	
WHT4(3)8-1	N	Confined	40	8	48	NA	Y	6	60-120	Note: Half of reach is unconfined
WHT4(4)	N	Unconfined	40	8	48	-	-	6	60	

APPENDIX E2

Background Studies – Rapid
assessment results for reaches within
the Mayfield West Study Area (2014)

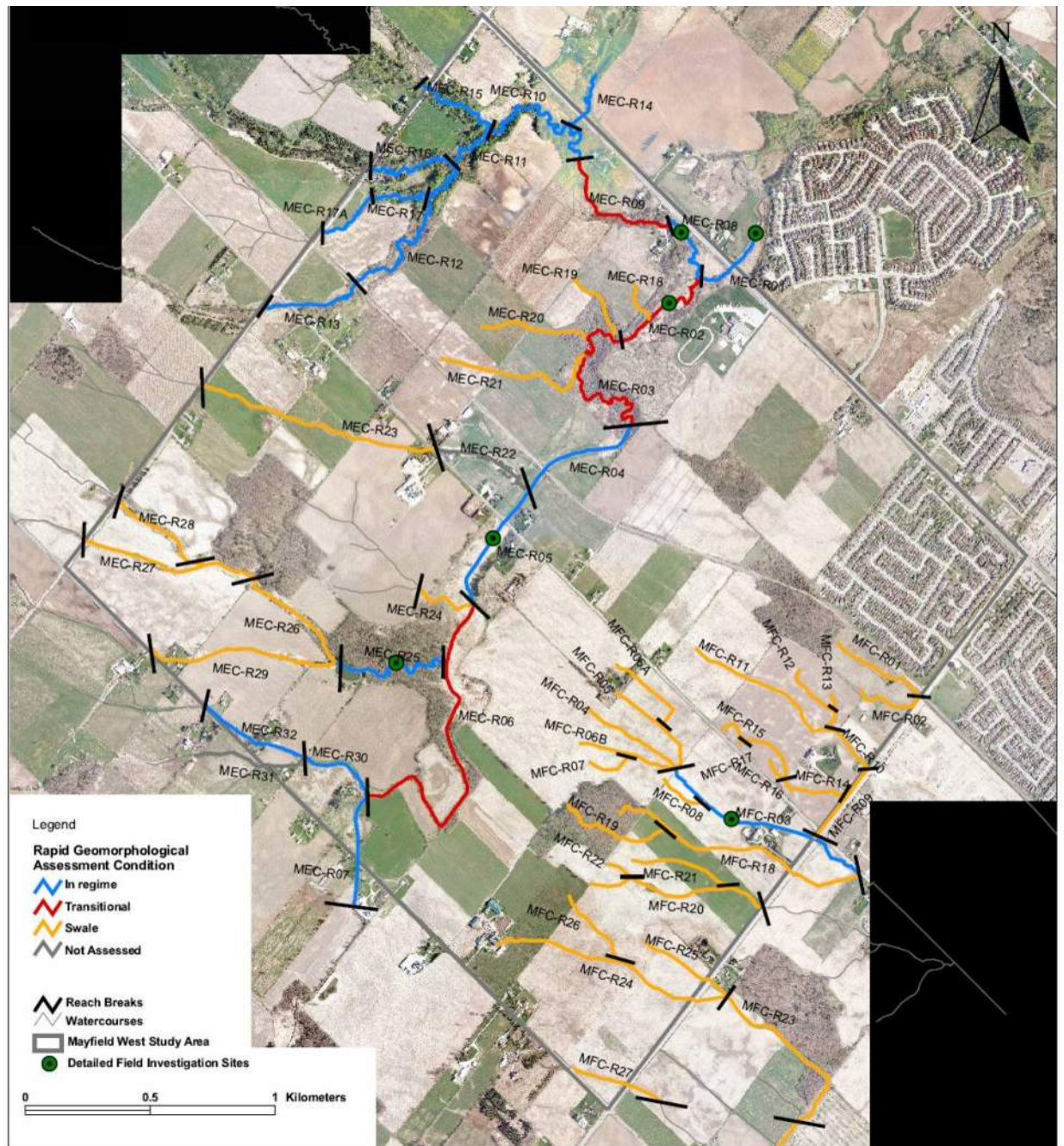


Figure 4.4.2: Rapid assessment results for reaches within the Mayfield West Study Area

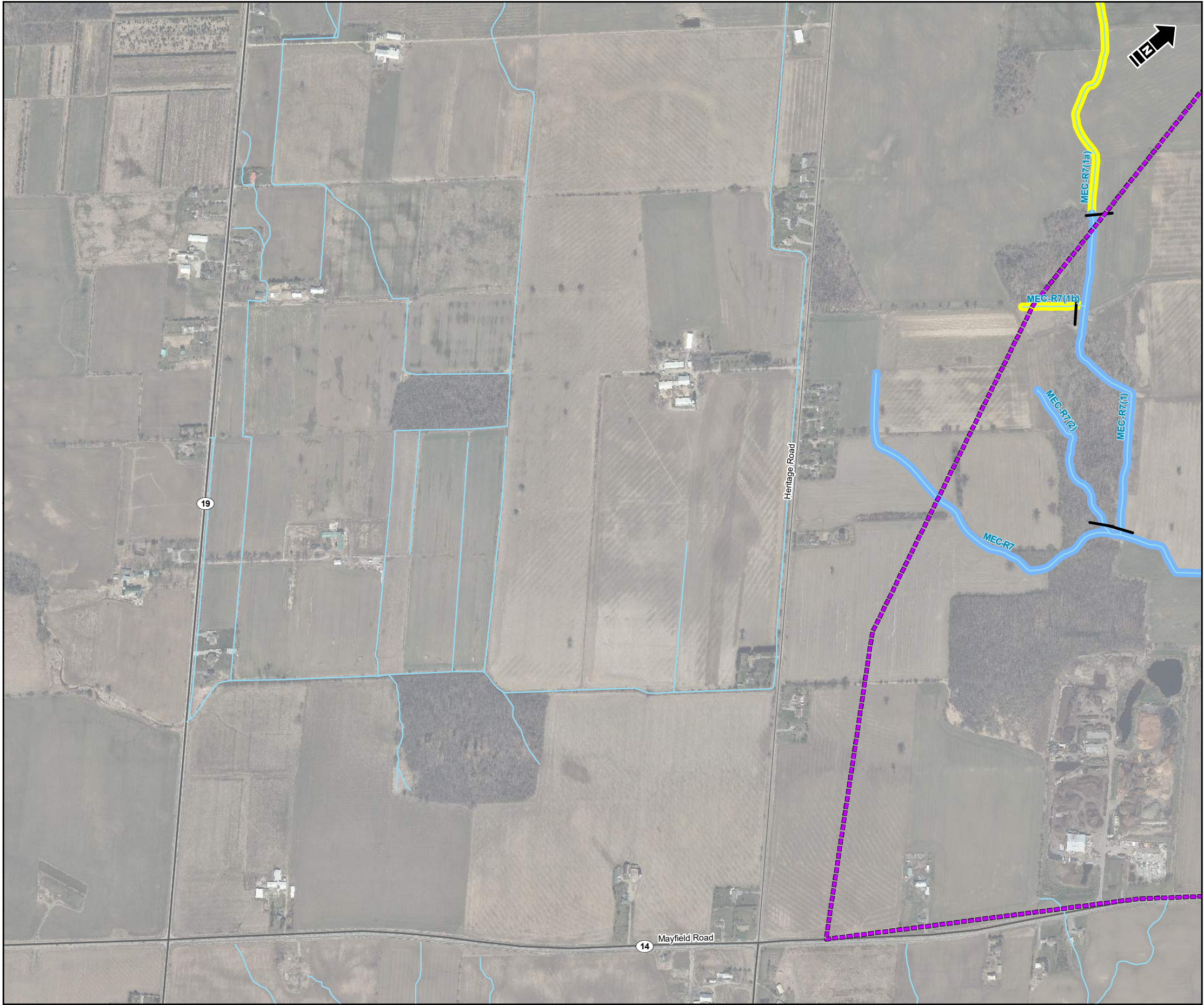
Detailed Field Investigation





The results of the field assessment indicate that the landscape of the Mayfield West Phase 2 Study Area is dominated by two distinct geomorphic zones: the Etobicoke Creek valley lands and the headwaters of Etobicoke Creek and Fletchers Creek. The main branches of Etobicoke

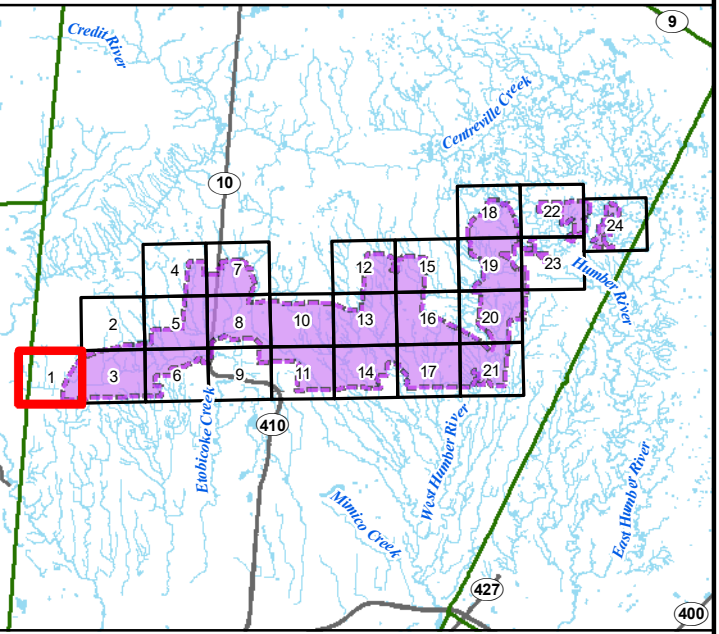
APPENDIX E3

Figures

I:\Wood\Environment\42881\FiguresAndTables\CMV2020\Report\Map-SM1-Watercourse and Headwater Drainage Feature Reaches.mxd



-  Focus Study Area
-  Watercourse
-  Highway
-  Road
-  Reach Break
- Reach Type**
-  HDF
-  Watercourse



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NAD 1983 UTM Zone 17N

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ENVIRONMENT & ENGINEERING

Region of Peel
Caledon SWS, Phase 2 Part A

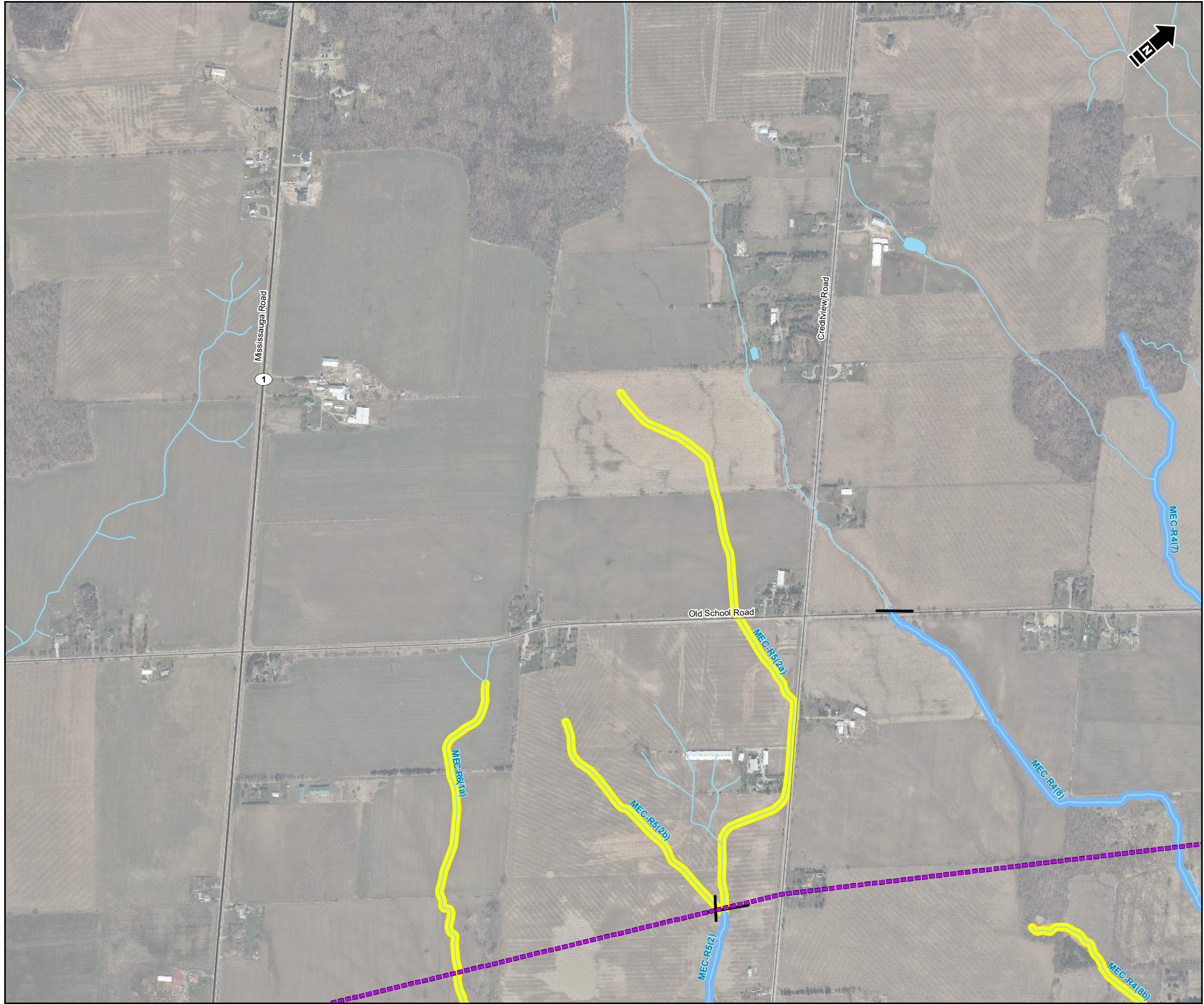
**Watercourse and Headwater Drainage
Feature Reaches**

Date: September 2020 Project: 28981 Submitter: A. Nicoll Reviewer: J. McDonald

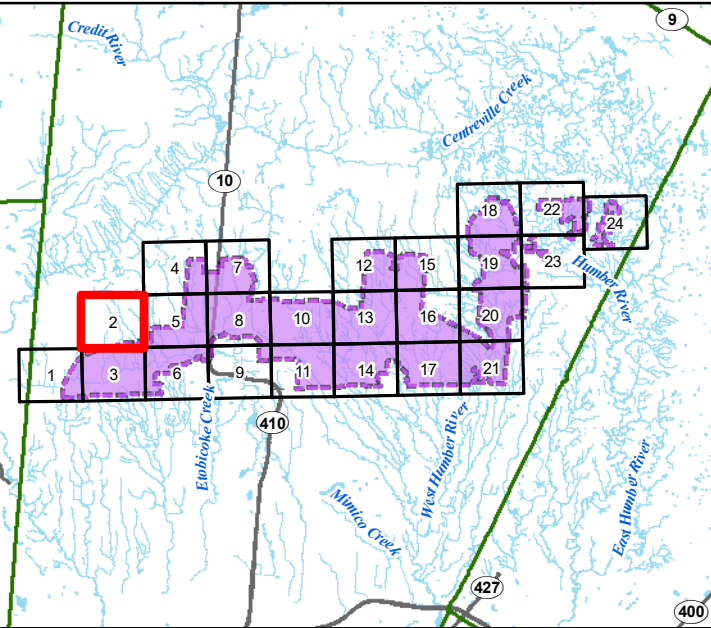
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Map SM1-1

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- Focus Study Area
- Water Body
- Watercourse
- Highway
- Road
- Reach Break
- Reach Type
 - HDF
 - Watercourse



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m
NAD 1983 UTM Zone 17N



Region of Peel
Caledon SWS, Phase 2 Part A

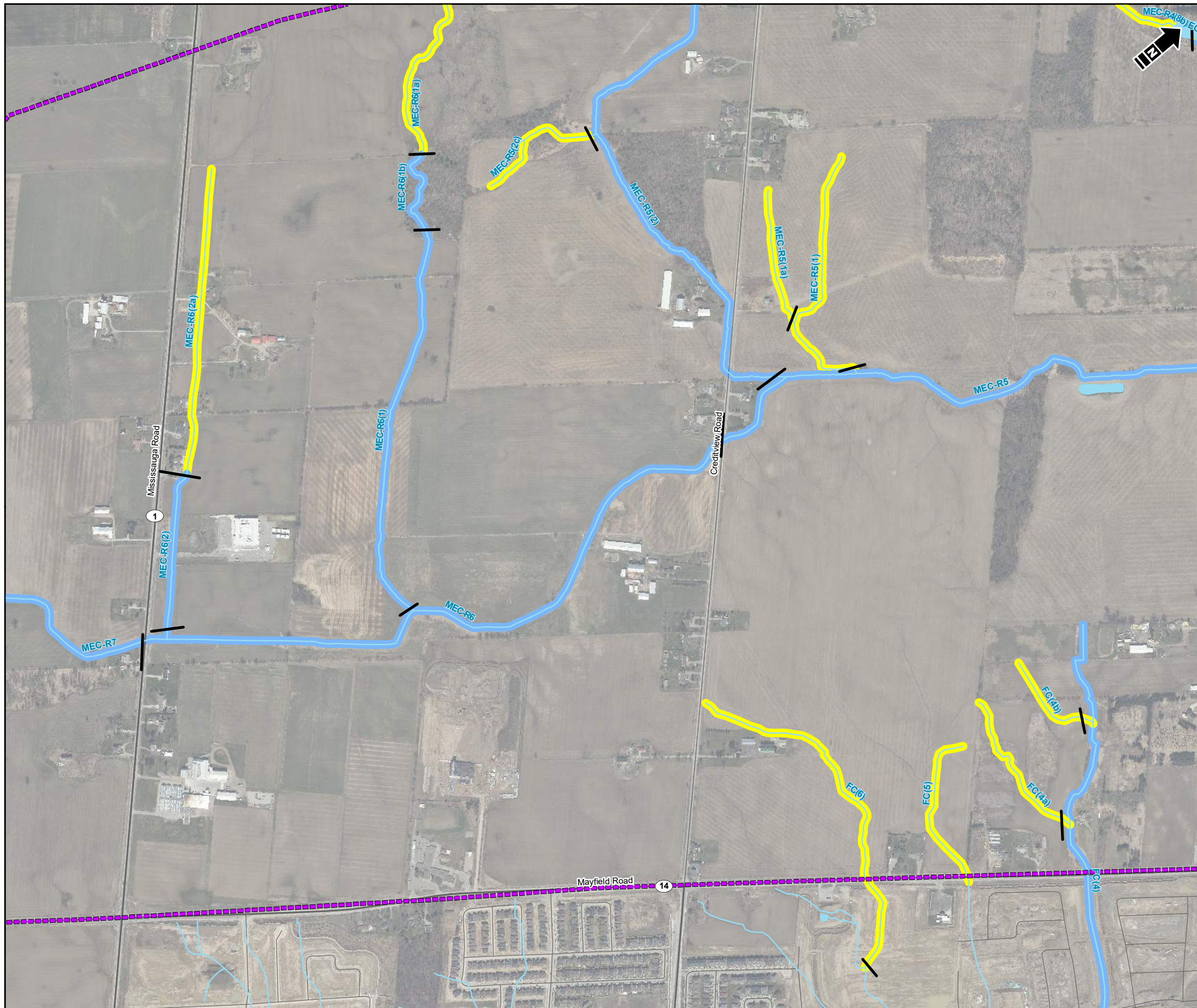
Watercourse and Headwater Drainage Feature Reaches

Date: September 2020 Project: 28981 Submitter: A. Nicoll Reviewer: J. McDonald

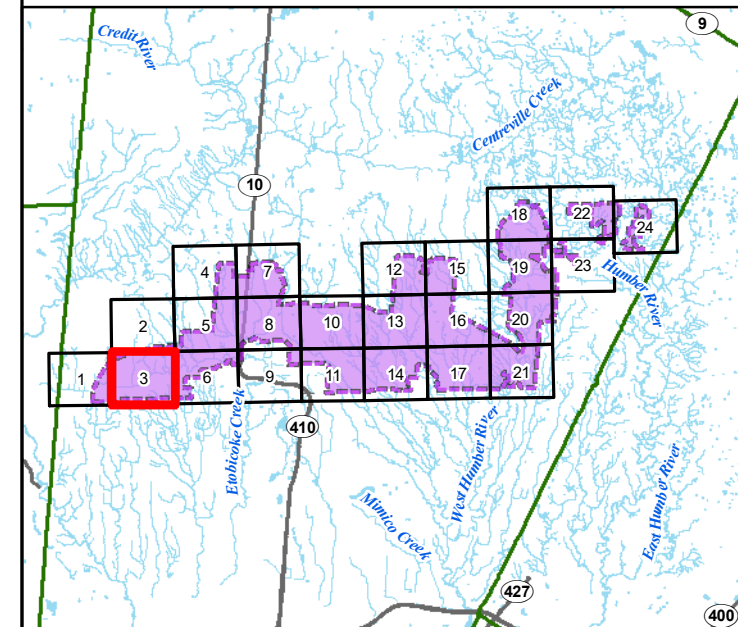
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Map
SM1-2

I:\Wood\Environment\42881\FiguresAndTables\CMV2020\Report\Map-SM1-Watercourse and Headwater Drainage Feature Reaches.mxd



- Focus Study Area
- Water Body
- Watercourse
- Highway
- Road
- Reach Break
- Reach Type
 - HDF
 - Watercourse



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1:10,000
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NAD 1983 UTM Zone 17N

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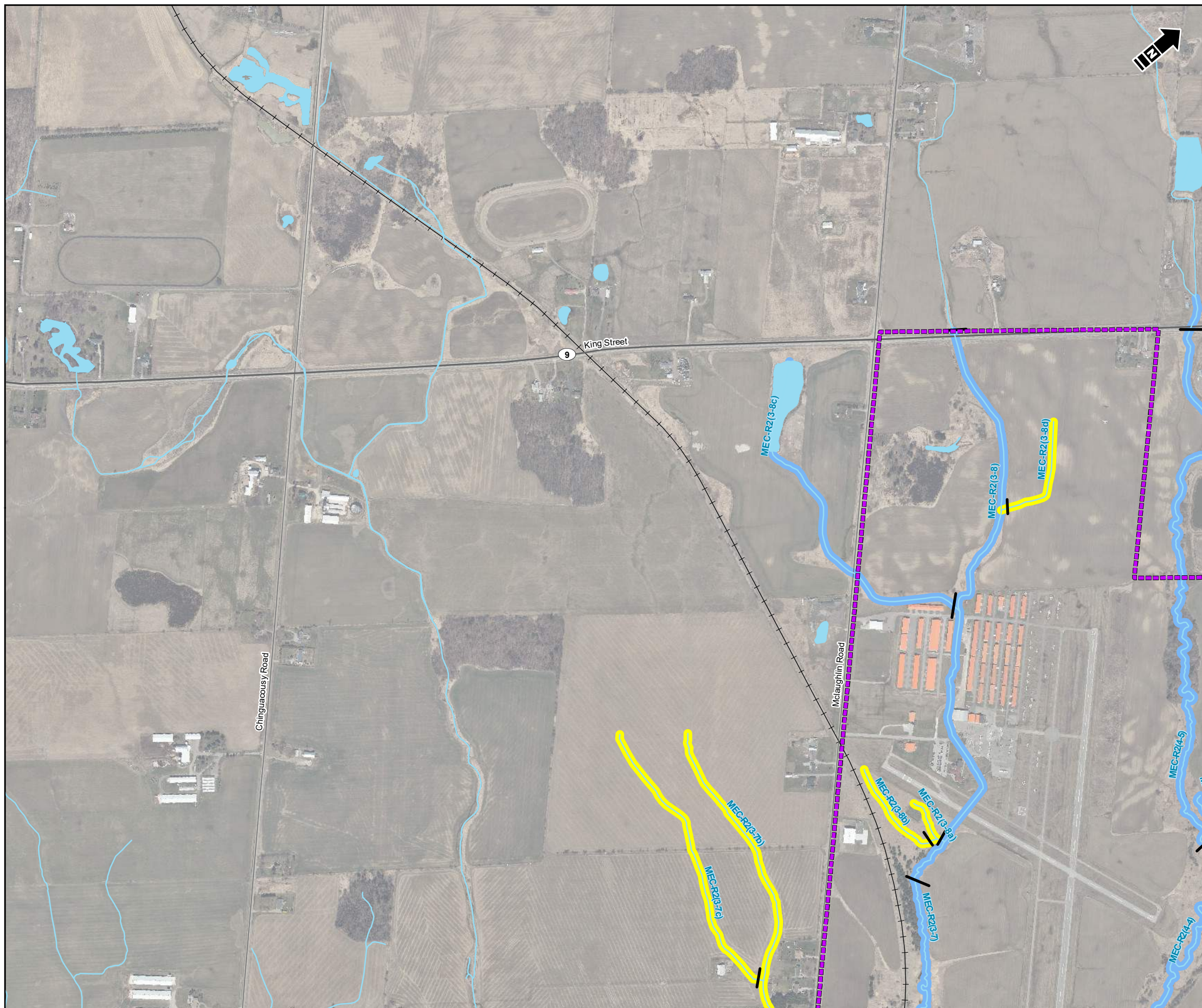
Region of Peel
Caledon SWS, Phase 2 Part A

Watercourse and Headwater Drainage Feature Reaches

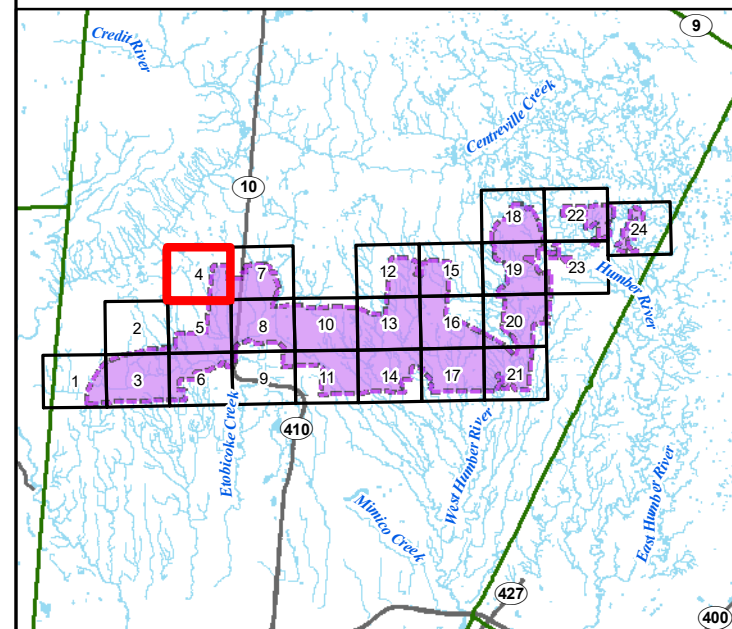
Date: September 2020 Project: 28981 Submitter: A. Nicoll Reviewer: J. McDonald

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Map SM1-3



- Reach Type**
- HDF
 - Watercourse



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NAD 1983 UTM Zone 17N



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Region of Peel
Caledon SWS, Phase 2 Part A

Watercourse and Headwater Drainage Feature Reaches

Date:	September 2020	Project:	28981	Submitter:	A. Nicoll	Reviewer:	J. McDonald
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	Project
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00001

Submitter:

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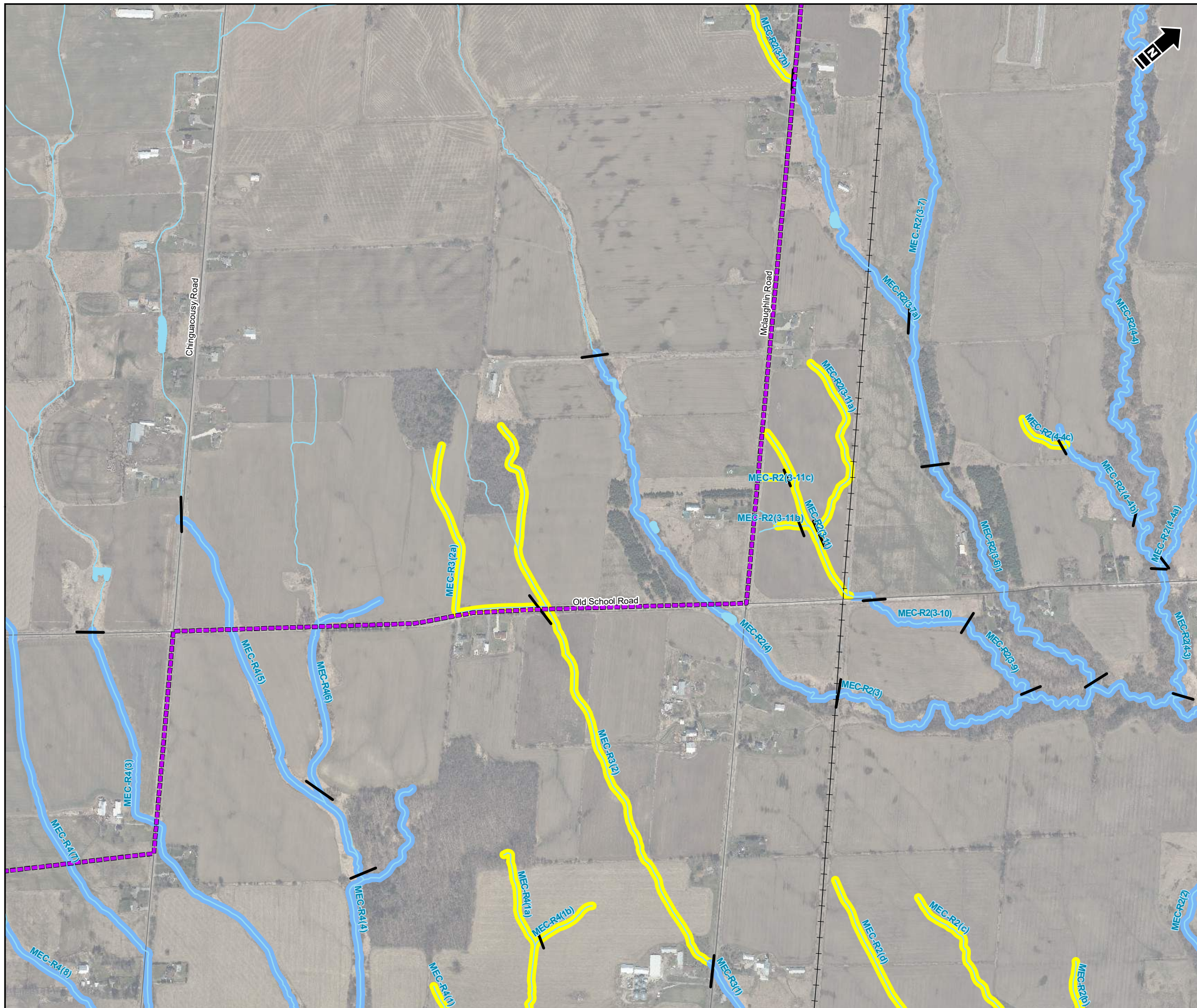
Reviewer:

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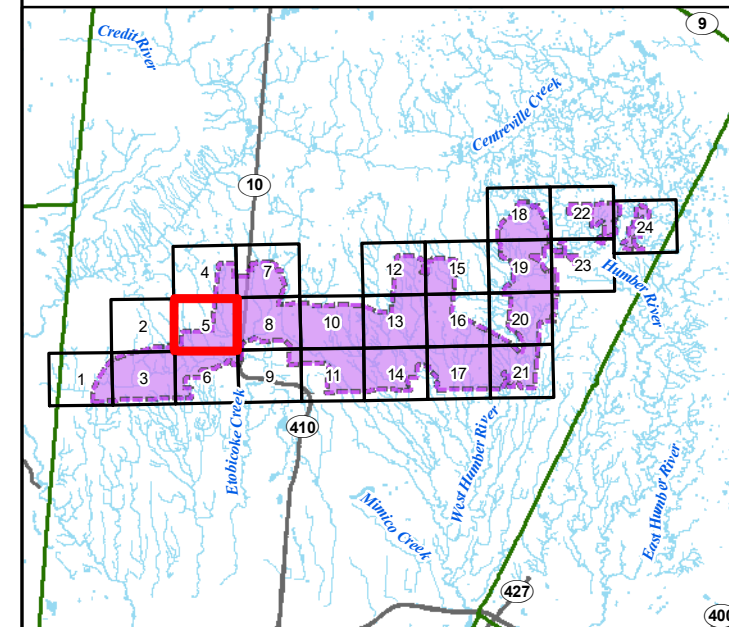
Map

SM1-4

I:\Wood\Environment\42981\FiguresAndTables\CMV2020\Report\Map-SM1-Watercourse and Headwater Drainage Feature Reaches.mxd



- Focus Study Area
- Water Body
- Watercourse
- Road
- Railway
- Reach Break
- Reach Type
 - HDF
 - Watercourse



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m
NAD 1983 UTM Zone 17N

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Region of Peel
Caledon SWS, Phase 2 Part A

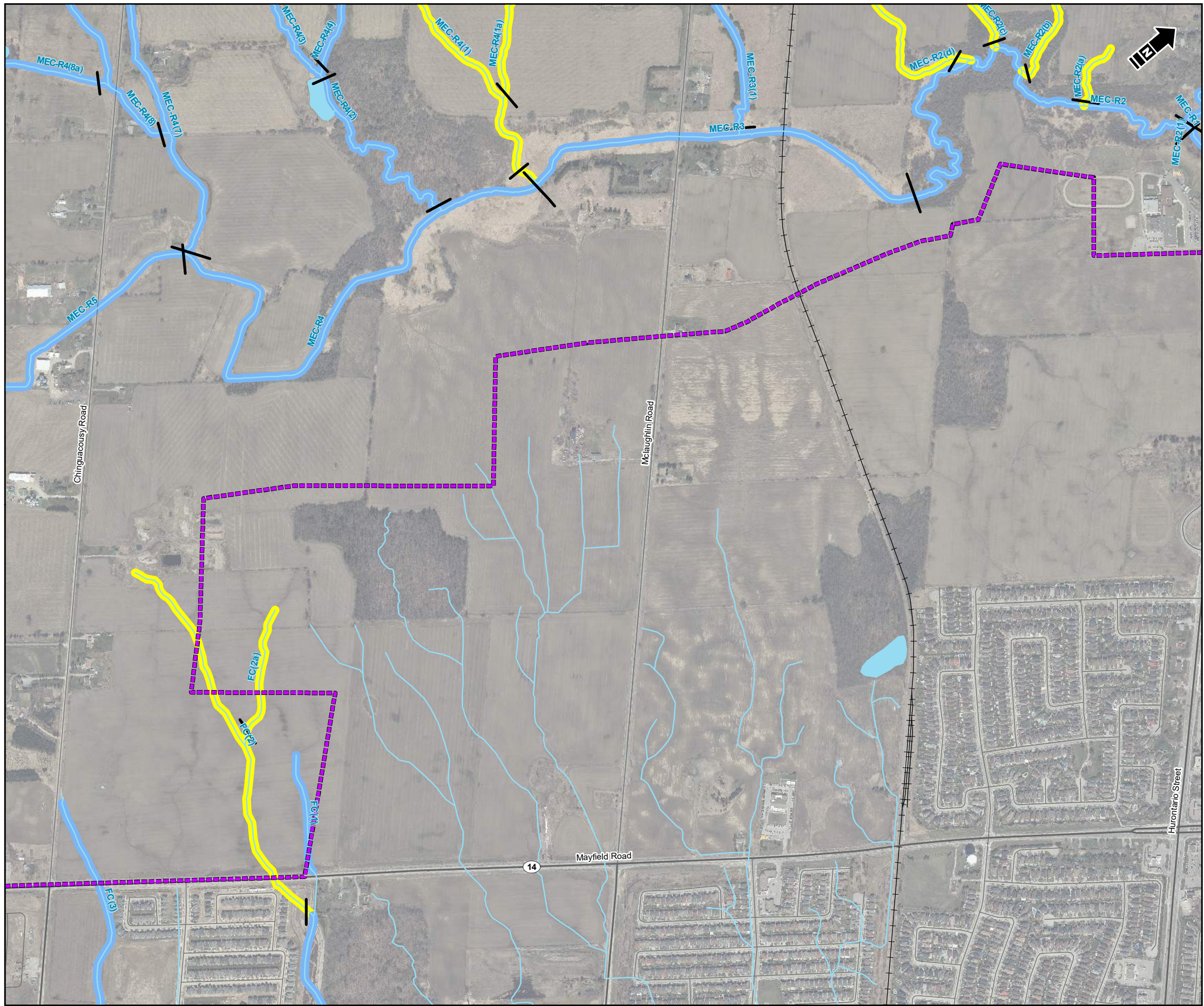
Watercourse and Headwater Drainage Feature Reaches

Date: September 2020 Project: 28981 Submitter: A. Nicoll Reviewer: J. McDonald

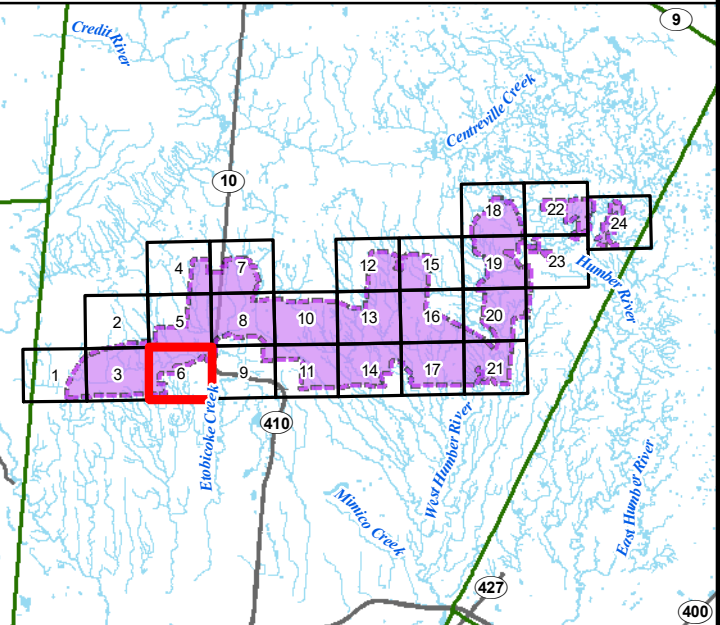
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Map
SM1-5

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- Focus Study Area
- Water Body
- Watercourse
- Highway
- Road
- Railway
- Reach Break
- Reach Type
 - HDF
 - Watercourse



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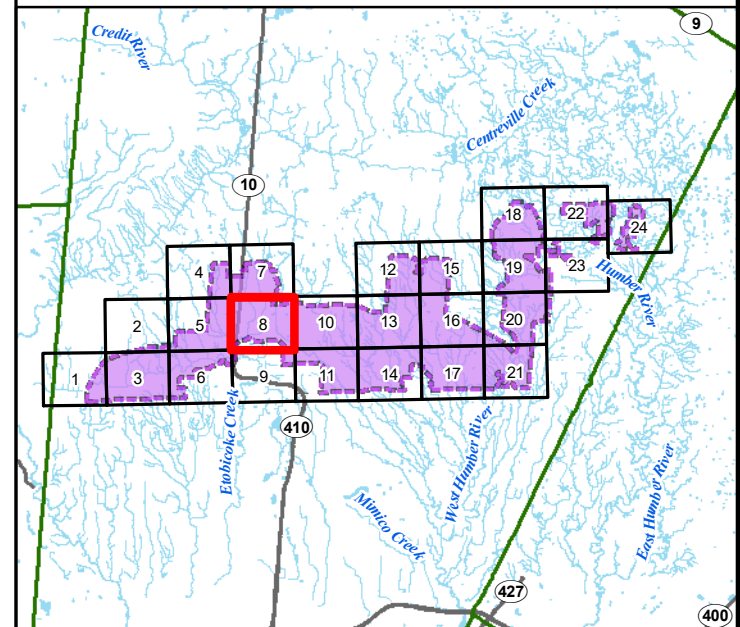
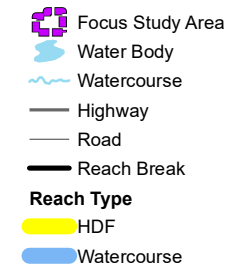
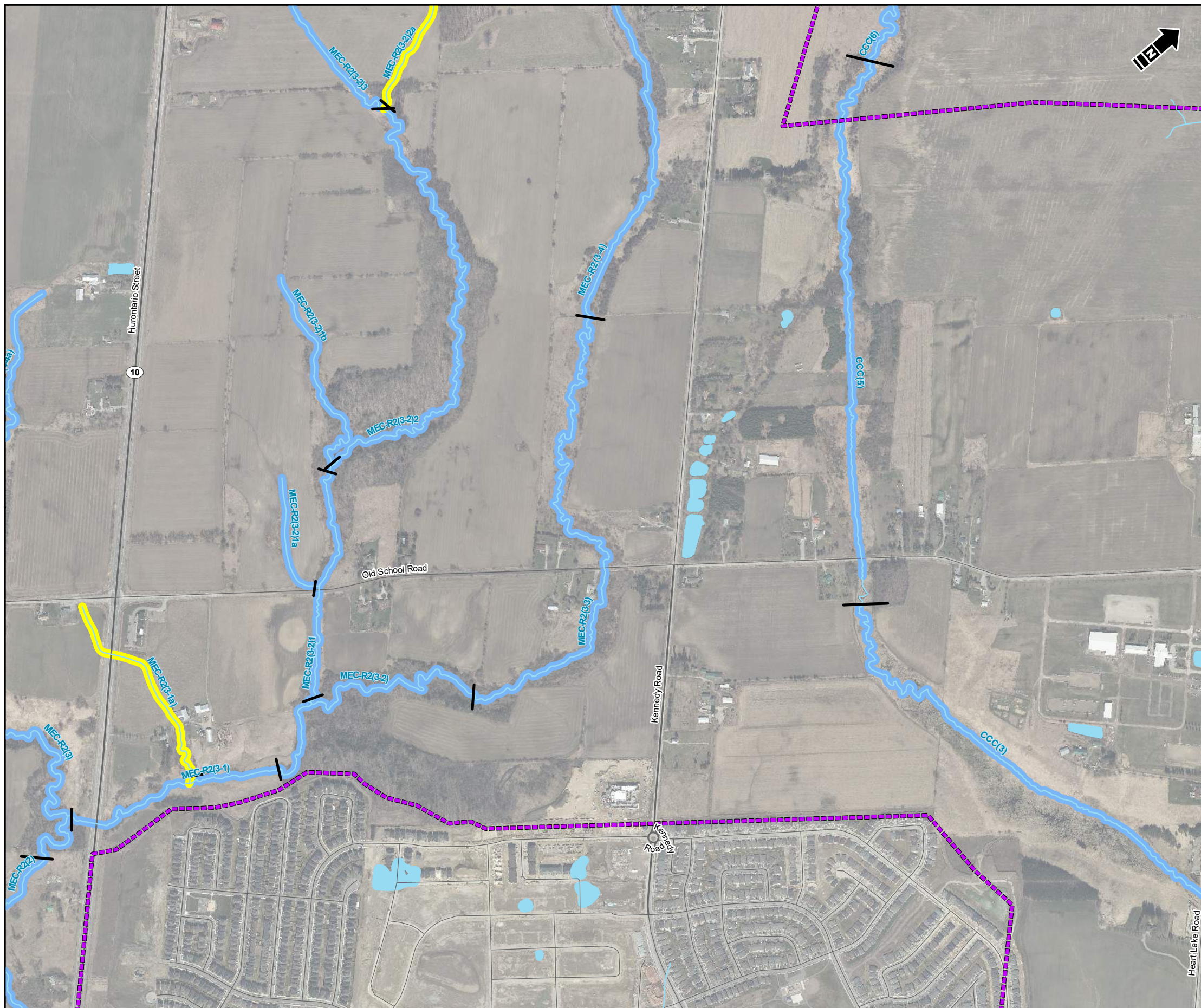
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NAD 1983 UTM Zone 17N

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Region of Peel
Caledon SWS, Phase 2 Part A

Watercourse and Headwater Drainage Feature Reaches

Date: September 2020	Project: 28981	Submitter: A. Nicoll	Reviewer: J. McDonald
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NAD 1983 UTM Zone 17N



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Region of Peel
Caledon SWS, Phase 2 Part A

Watercourse and Headwater Drainage Feature Reaches

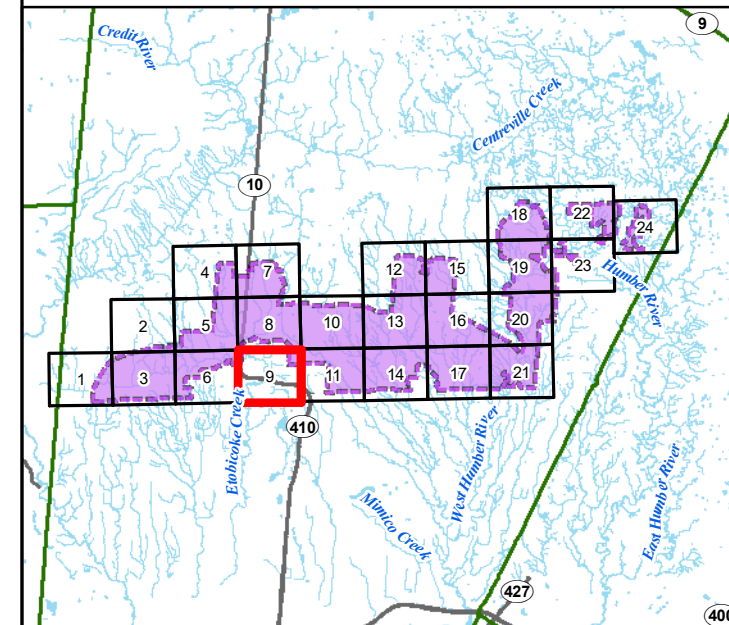
Date:	September 2020	Project:	28981	Submitter:	A. Nicoll	Reviewer:	J. McDonald
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I:\Wood\Environment\42981\FiguresAndTables\CMV2020\Report\Map-SM1-Watercourse and Headwater Drainage Feature Reaches.mxd



- Focus Study Area
- Water Body
- Watercourse
- Highway
- Road
- Reach Break
- Reach Type
 - Watercourse



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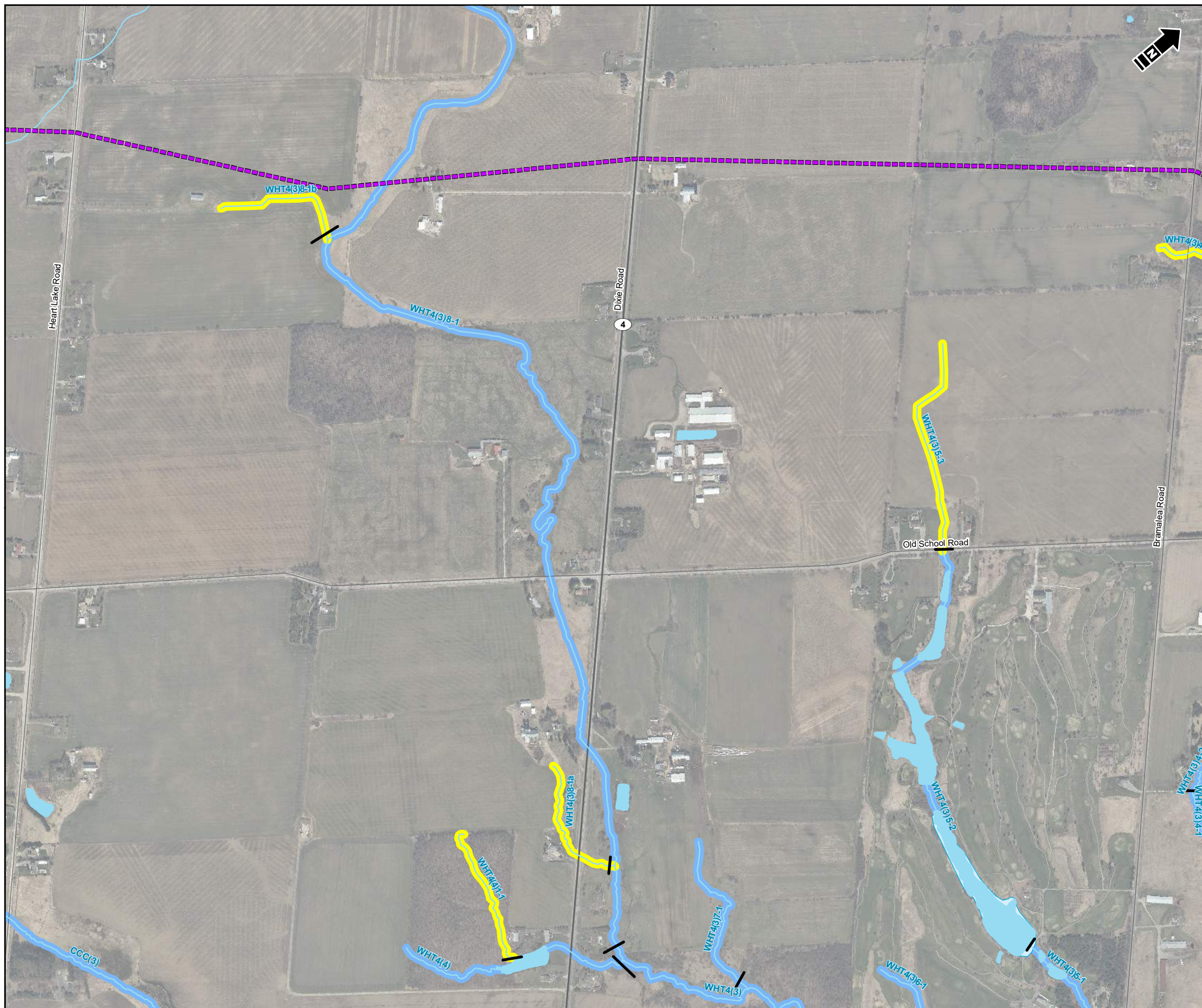
Region of Peel
Caledon SWS, Phase 2 Part A










Watercourse and Headwater Drainage Feature Reaches

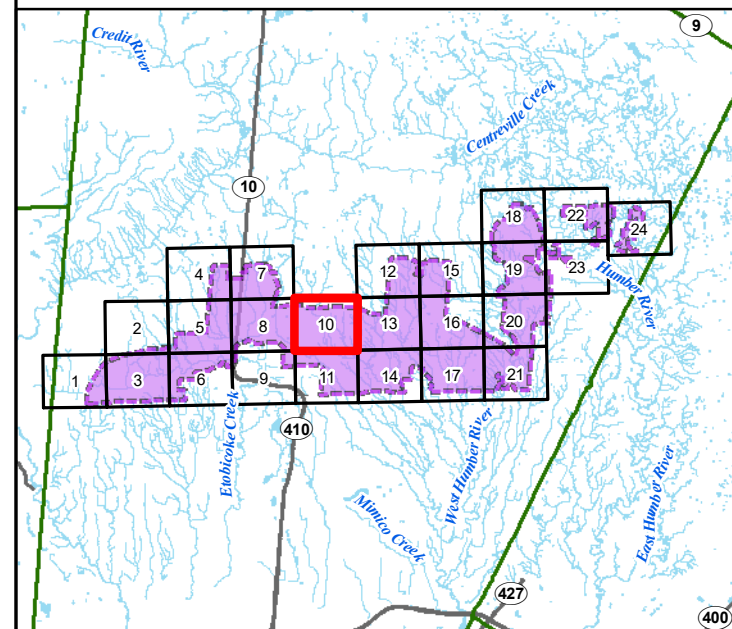
Date: September 2020 Project: 28981 Submitter: A. Nicoll Reviewer: J. McDonald

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Map
SM1-9



-  Focus Study Area
 Pond
 Water Body
 Watercourse
 Highway
 Road
 Reach Break
Reach Type
 HDF
 Watercourse



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NAD 1983 UTM Zone 17N



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Region of Peel
Caledon SWS, Phase 2 Part A

Watercourse and Headwater Drainage Feature Reaches

Date:	September 2020	Project:	28981	Submitter:	A. Nicoll	Reviewer:	J. McDonald
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	Project
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00001

Submitter:

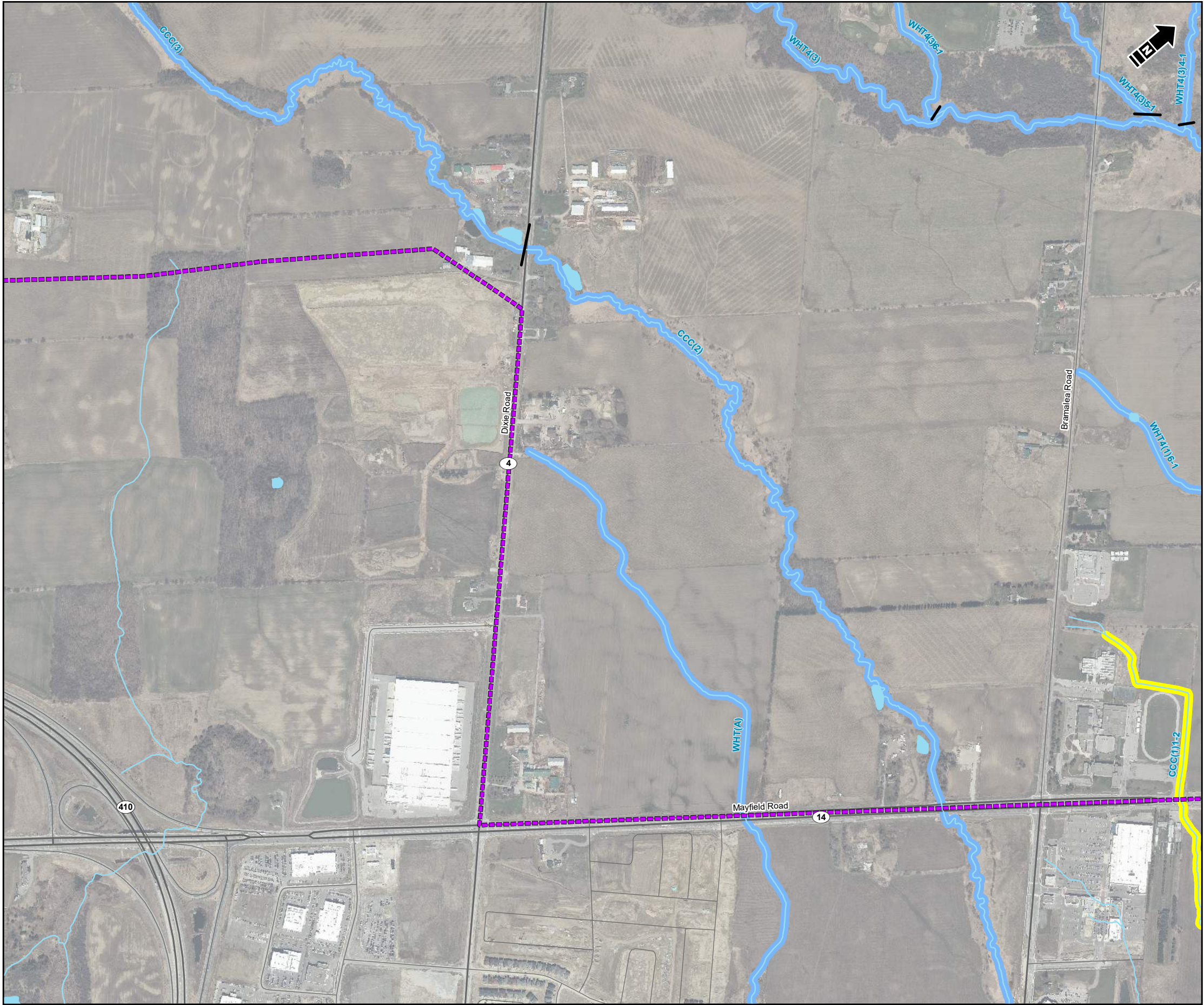
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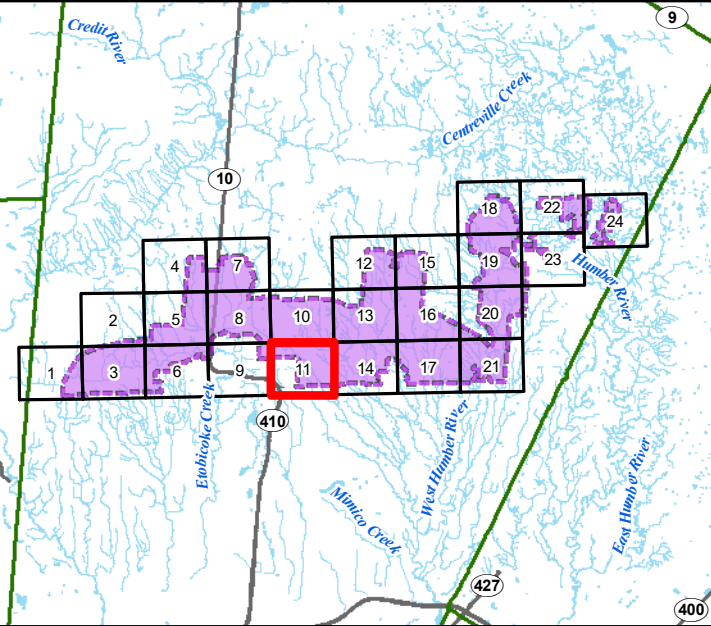
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Map
SM1-10

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- Focus Study Area
- Water Body
- Watercourse
- Highway
- Road
- Reach Break
- Reach Type
 - HDF
 - Watercourse



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NAD 1983 UTM Zone 17N

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Region of Peel
Caledon SWS, Phase 2 Part A

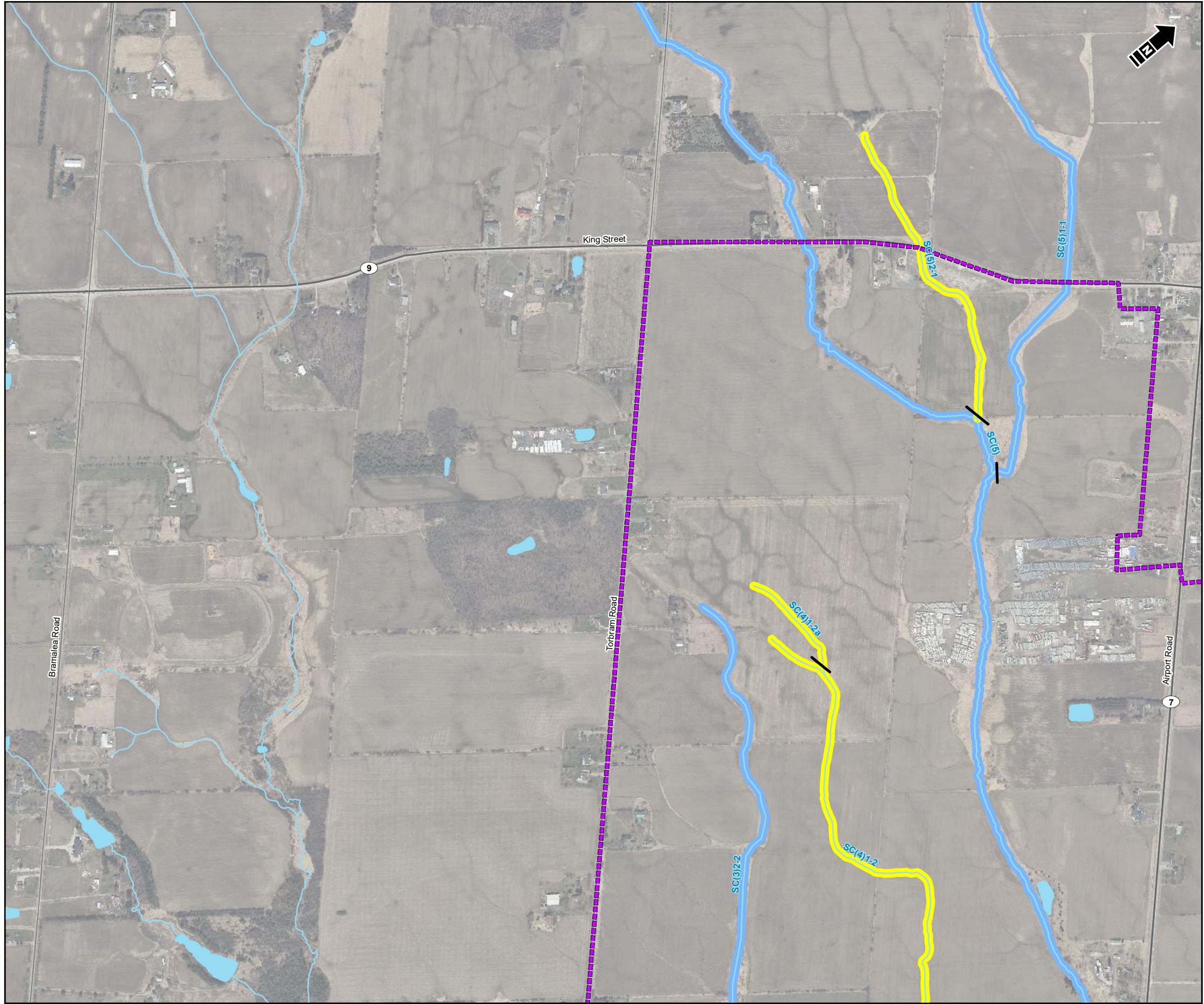
Watercourse and Headwater Drainage Feature Reaches

Date: September 2020 Project: 28981 Submitter: A. Nicoll Reviewer: J. McDonald

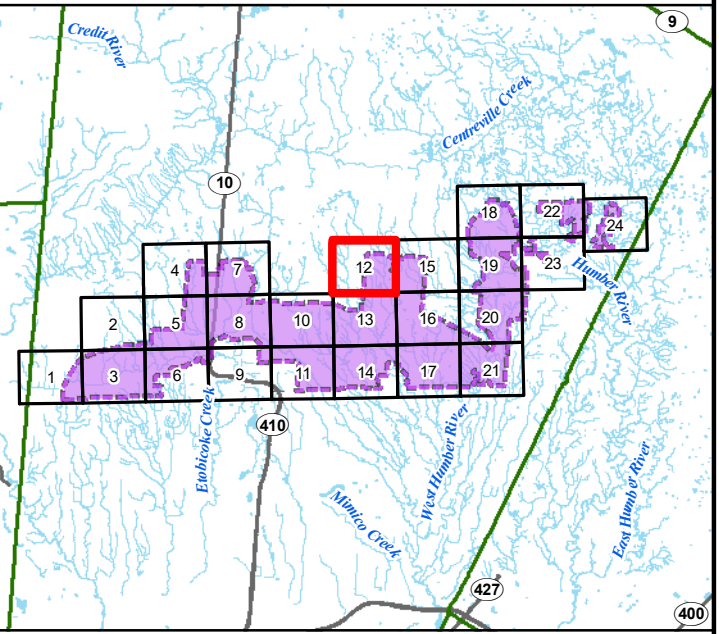
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Map SM11-11

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- Focus Study Area
- Water Body
- Watercourse
- Highway
- Road
- Reach Break
- Reach Type**
- HDF
- Watercourse



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NAD 1983 UTM Zone 17N

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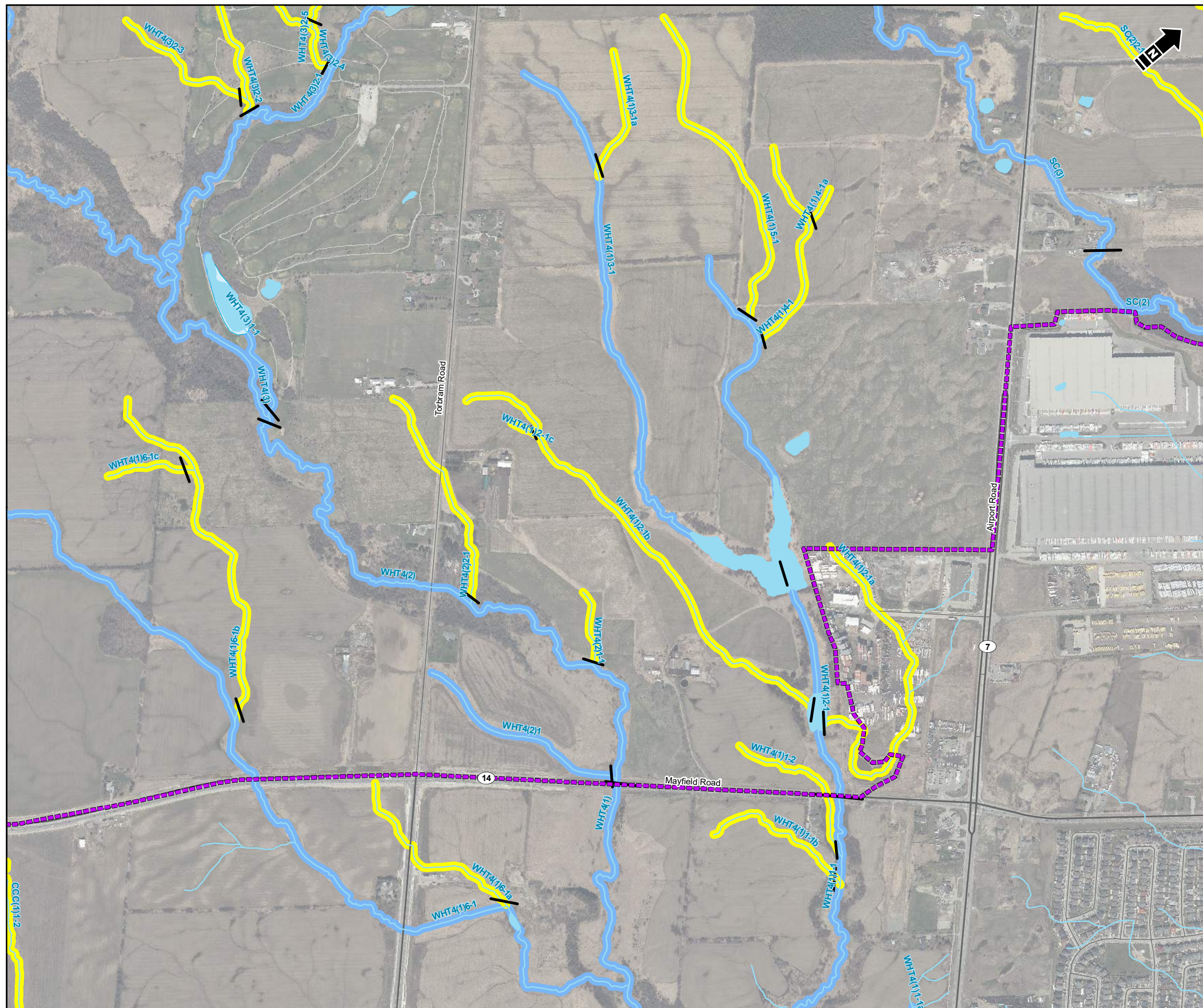
Region of Peel
Caledon SWS, Phase 2 Part A










**Watercourse and Headwater Drainage
Feature Reaches**

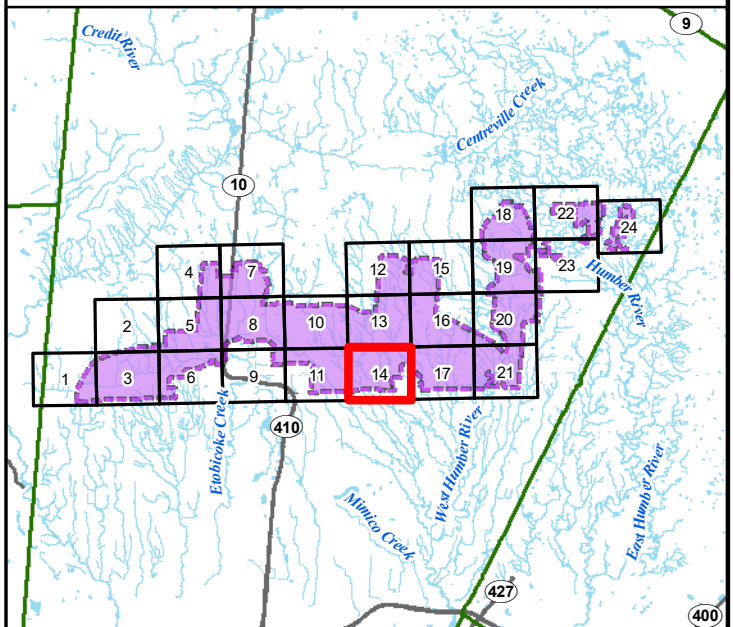
Date: September 2020 Project: 28981 Submitter: A. Nicoll Reviewer: J. McDonald

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Map SM1-12



- Legend**
-  Focus Study Area
 -  Pond
 -  Water Body
 -  Watercourse
 -  Highway
 -  Road
 -  Reach Break
 - Reach Type**
 -  HDF
 -  Watercourse



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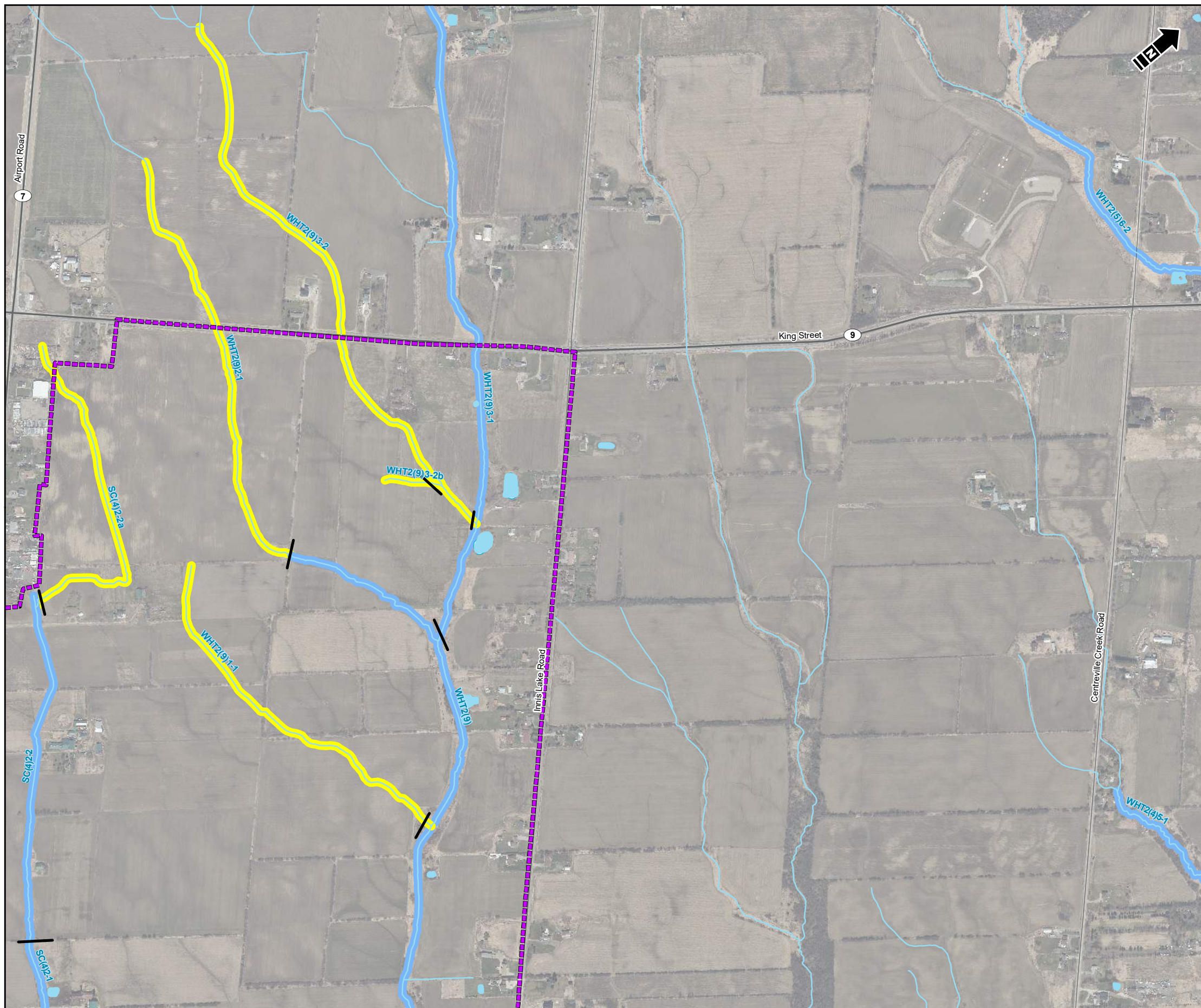
Matrix Solutions Inc.
ENVIRONMENT & ENGINEERING

Region of Peel
Caledon SWS, Phase 2 Part A

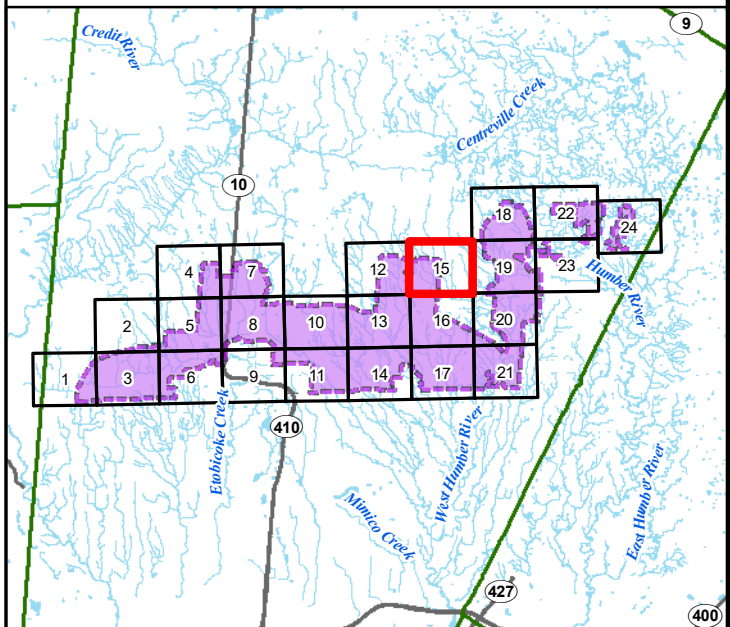
Watercourse and Headwater Drainage Feature Reaches

Date: September 2020	Project: 28981	Submitter: A. Nicoll	Reviewer: J. McDonald
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- Legend**
- Focus Study Area
 - Pond
 - Water Body
 - Watercourse
 - Highway
 - Road
 - Reach Break
- Reach Type**
- HDF
 - Watercourse



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Matrix Solutions Inc.
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Region of Peel
Caledon SWS, Phase 2 Part A

Watercourse and Headwater Drainage Feature Reaches

Date: September 2020	Project: 28981	Submitter: A. Nicoll	Reviewer: J. McDonald
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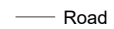
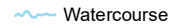
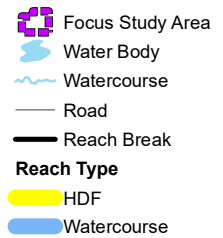
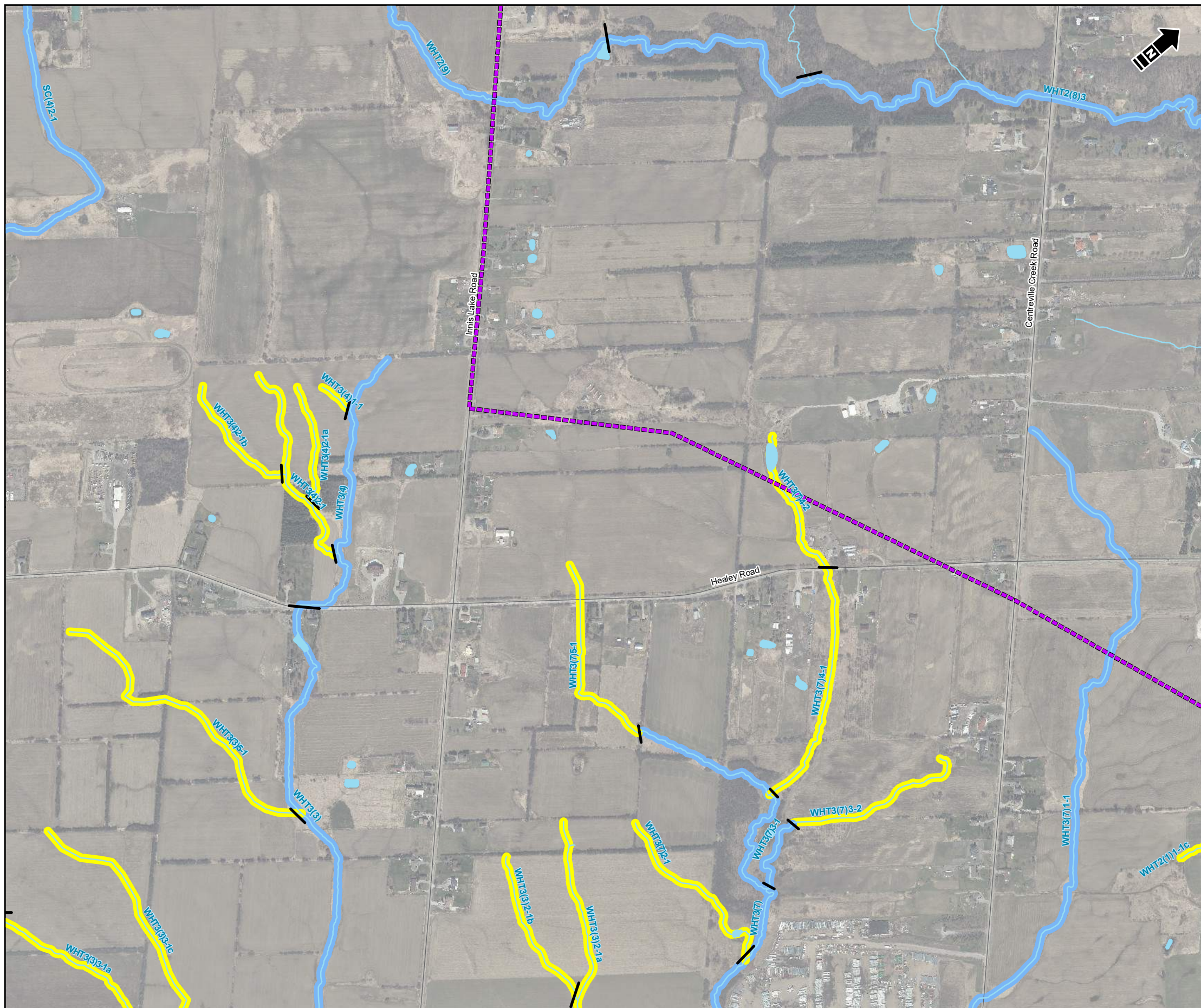
Project:	28981	\$
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Submitter:	A. Nicoll	Rev
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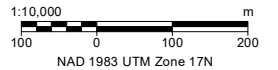
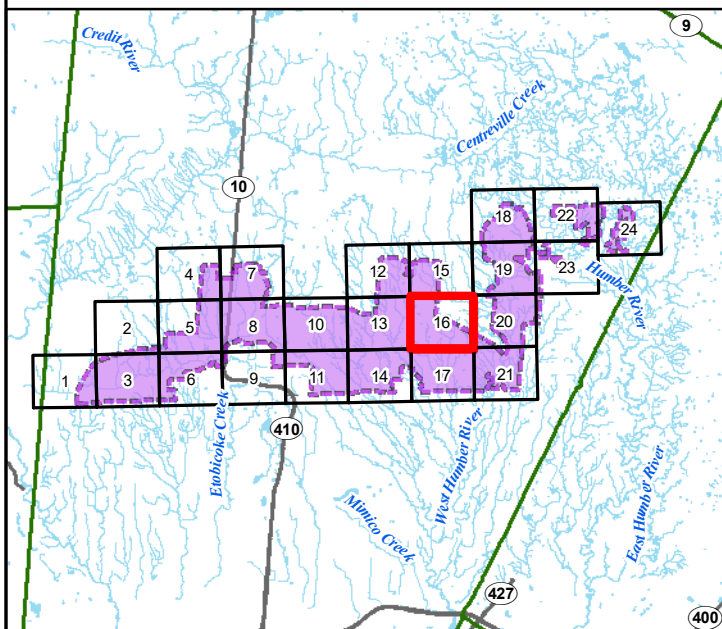
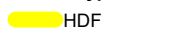
Interviewer: J. McDonald

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SM1-15



Reach Type



Region of Peel
Caledon SWS, Phase 2 Part A

Caledon SWS, Phase 2 Part A

Watercourse and Headwater Drainage Feature Reaches

Date:	September 2020	Project:	28981	Submitter:	A. Nicoll	Reviewer:	J. McDonald
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Project:

00001

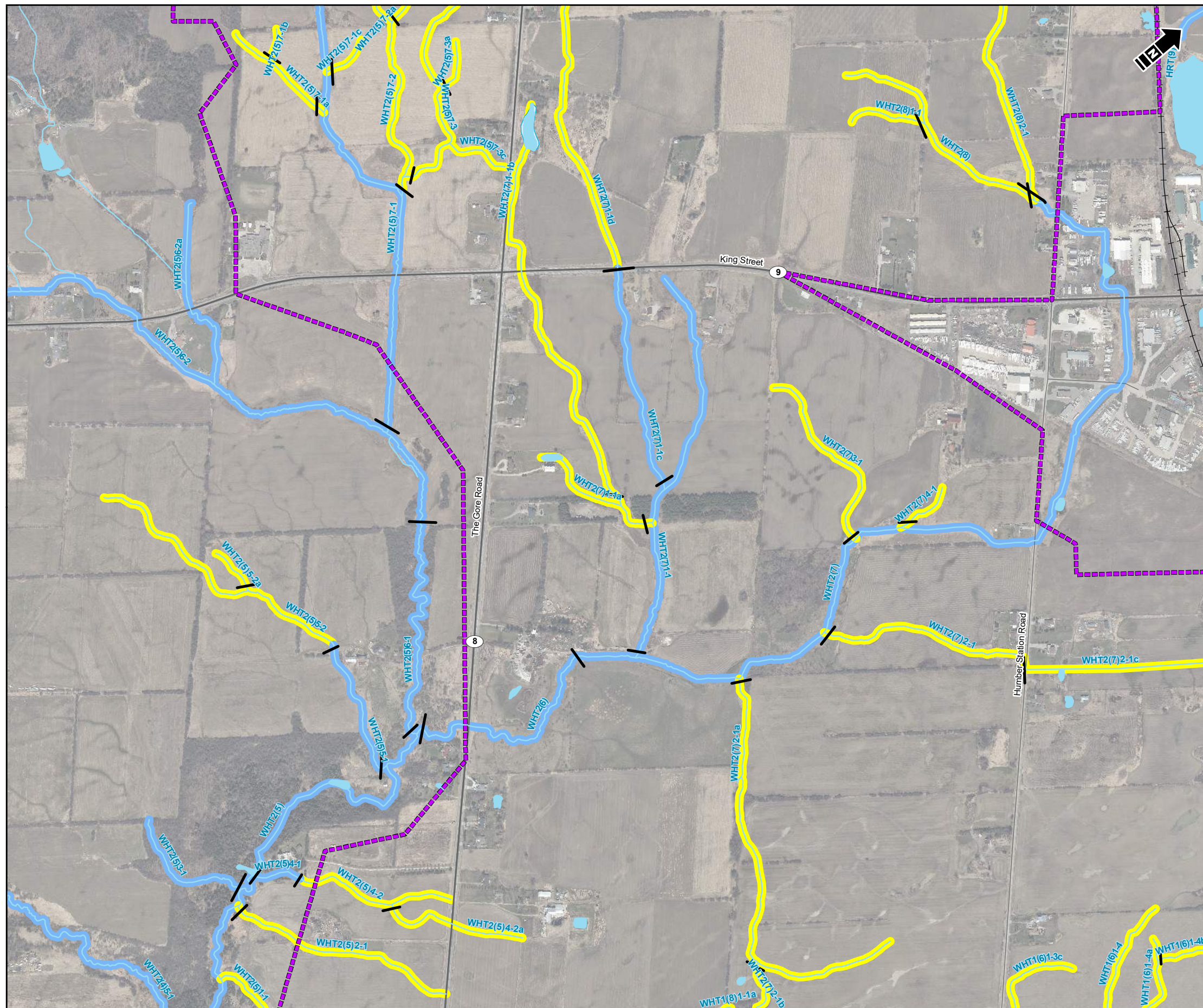
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



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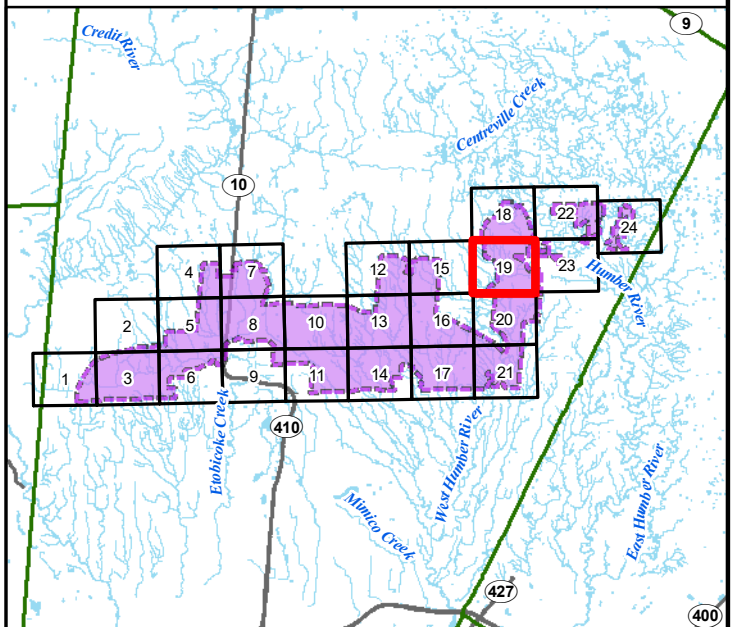
Reviewer:

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SM1-16



-  Focus Study Area
 Pond
 Water Body
 Watercourse
 Highway
 Road
 Railway
 Reach Break
- Reach Type**
-  HDF
 Watercourse



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Matrix Solutions Inc.
ENVIRONMENT & ENGINEERING

Region of Peel
Caledon SWS, Phase 2 Part A

Watercourse and Headwater Drainage Feature Reaches

Date: September 2020	Project: 28981	Submitter: A. Nicoll	Reviewer: J. McDonald
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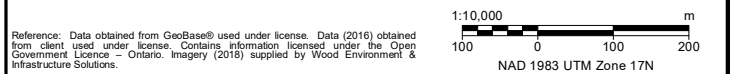
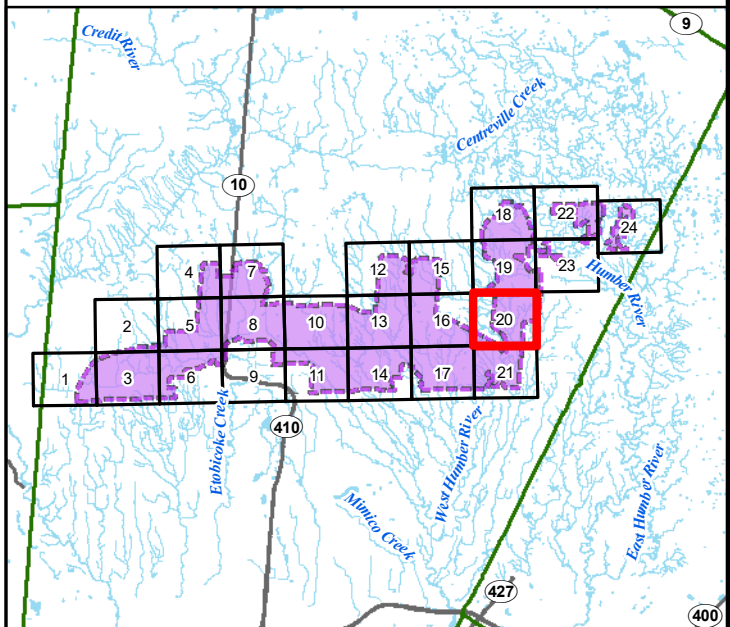
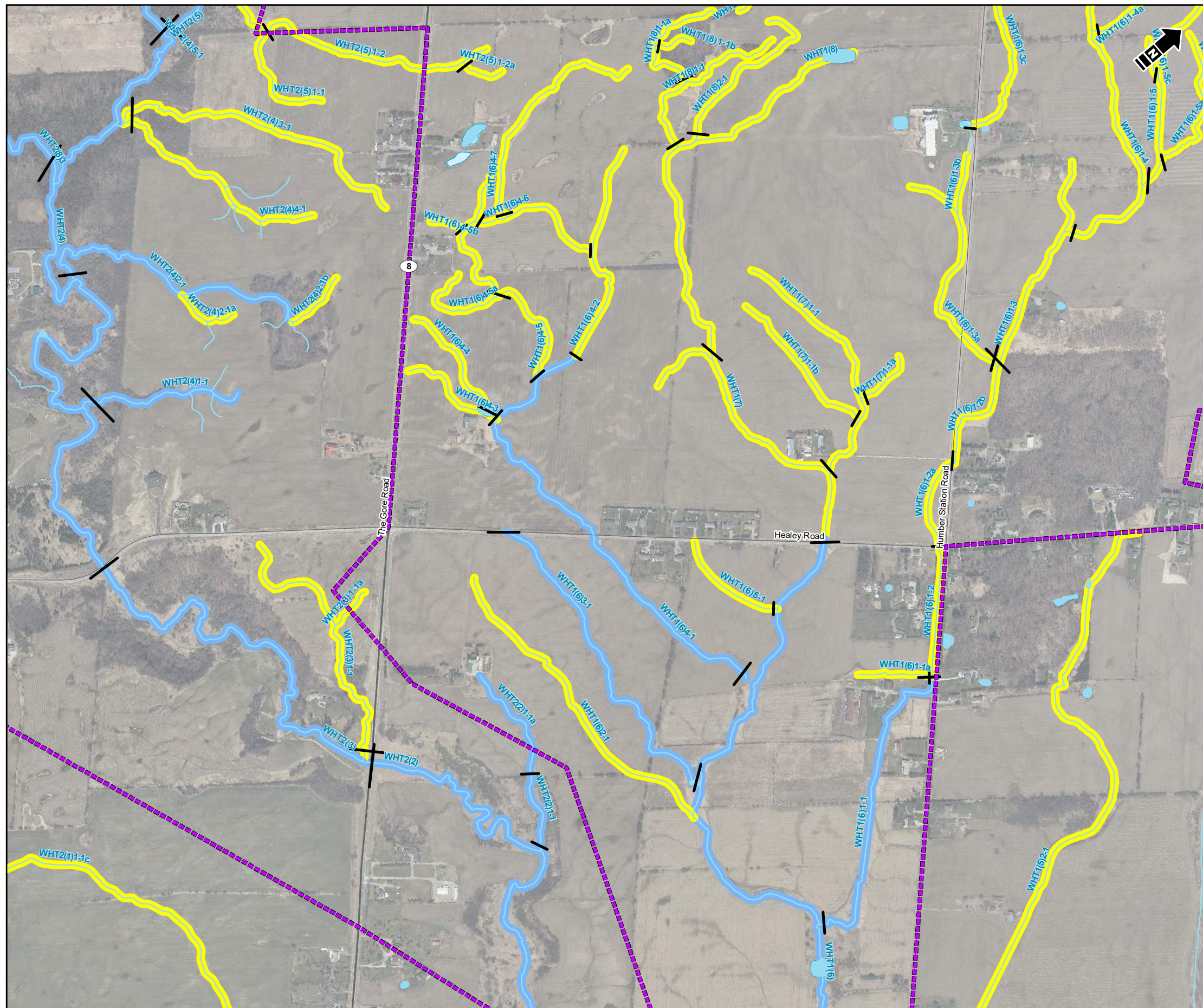
Project:	28981	\$
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Submitter: A. Nicoll

Reviewer:	J. McDonald
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Map
SM1-19

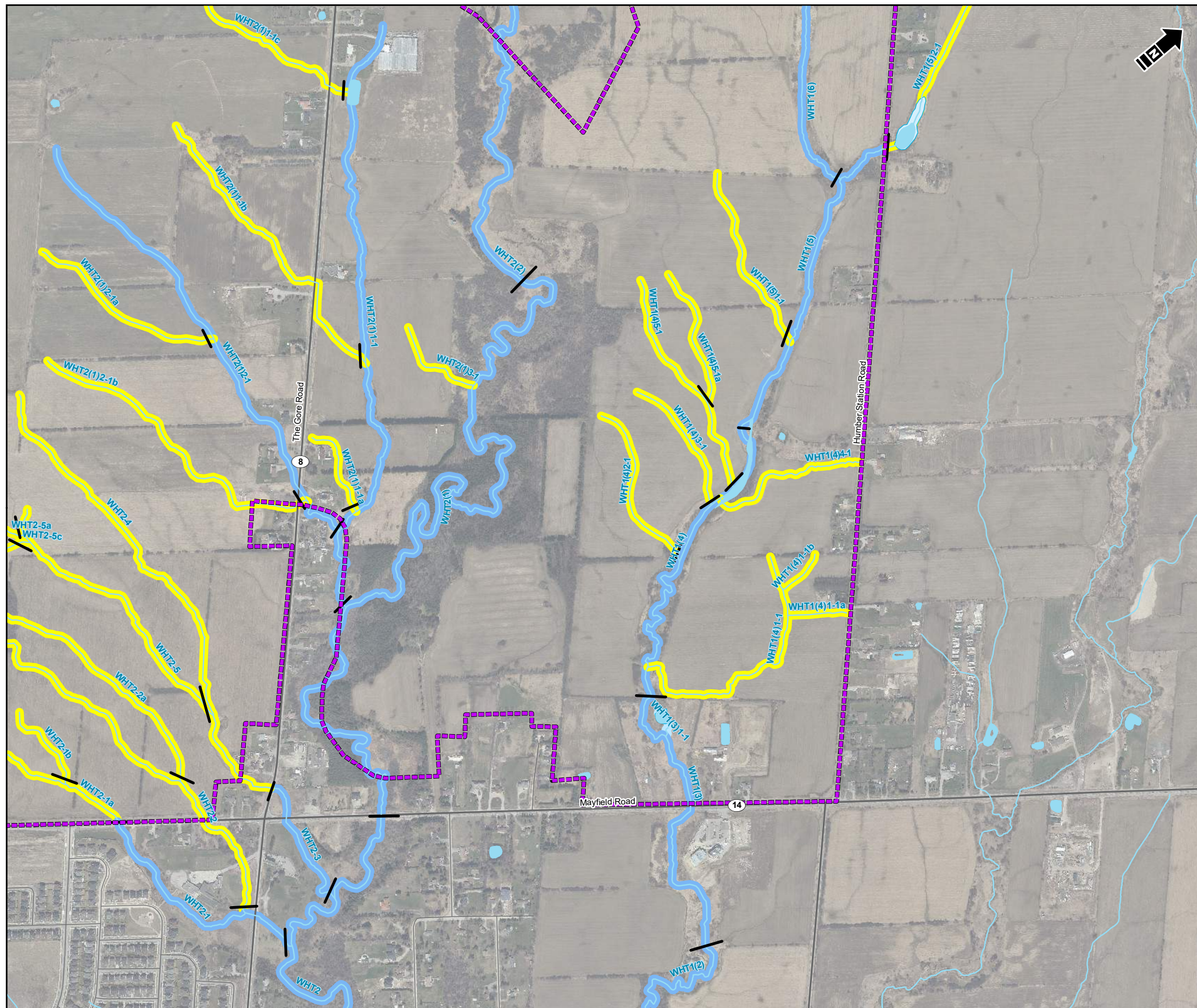


Region of Peel
Caledon SWS, Phase 2 Part A

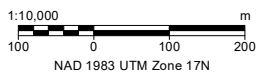
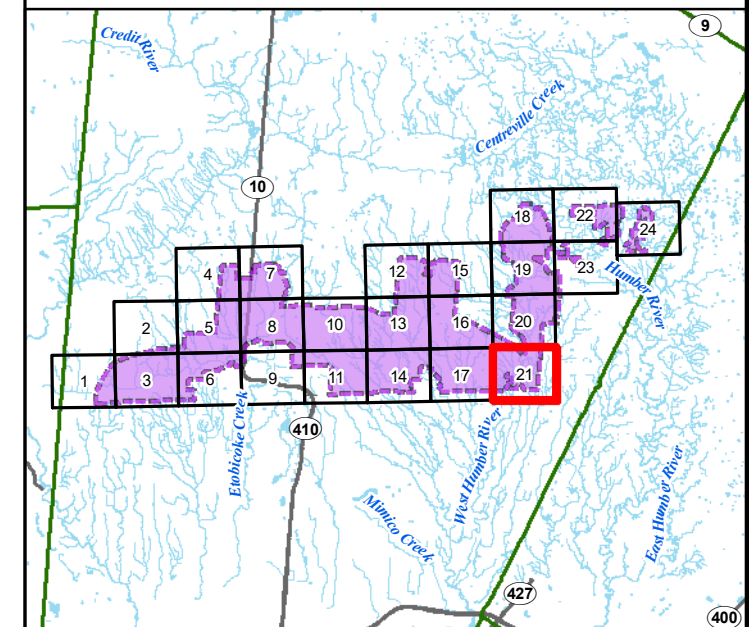
Watercourse and Headwater Drainage Feature Reaches

Date:	September 2020	Project:	28981	Submitter:	A. Nicoll	Reviewer:	J. McDonald
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- Legend**
- Focus Study Area
 - Pond
 - Water Body
 - Watercourse
 - Highway
 - Road
 - Reach Break
- Reach Type**
- HDF
 - Watercourse
 - Pond



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Matrix Solutions Inc.
ENVIRONMENT & ENGINEERING

Region of Peel
Caledon SWS, Phase 2 Part A

Watercourse and Headwater Drainage Feature Reaches

Date:	September 2020	Project	28981	Submitter:	A. Nicoll	Reviewer:	J. McDonald
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0	Project:	28981
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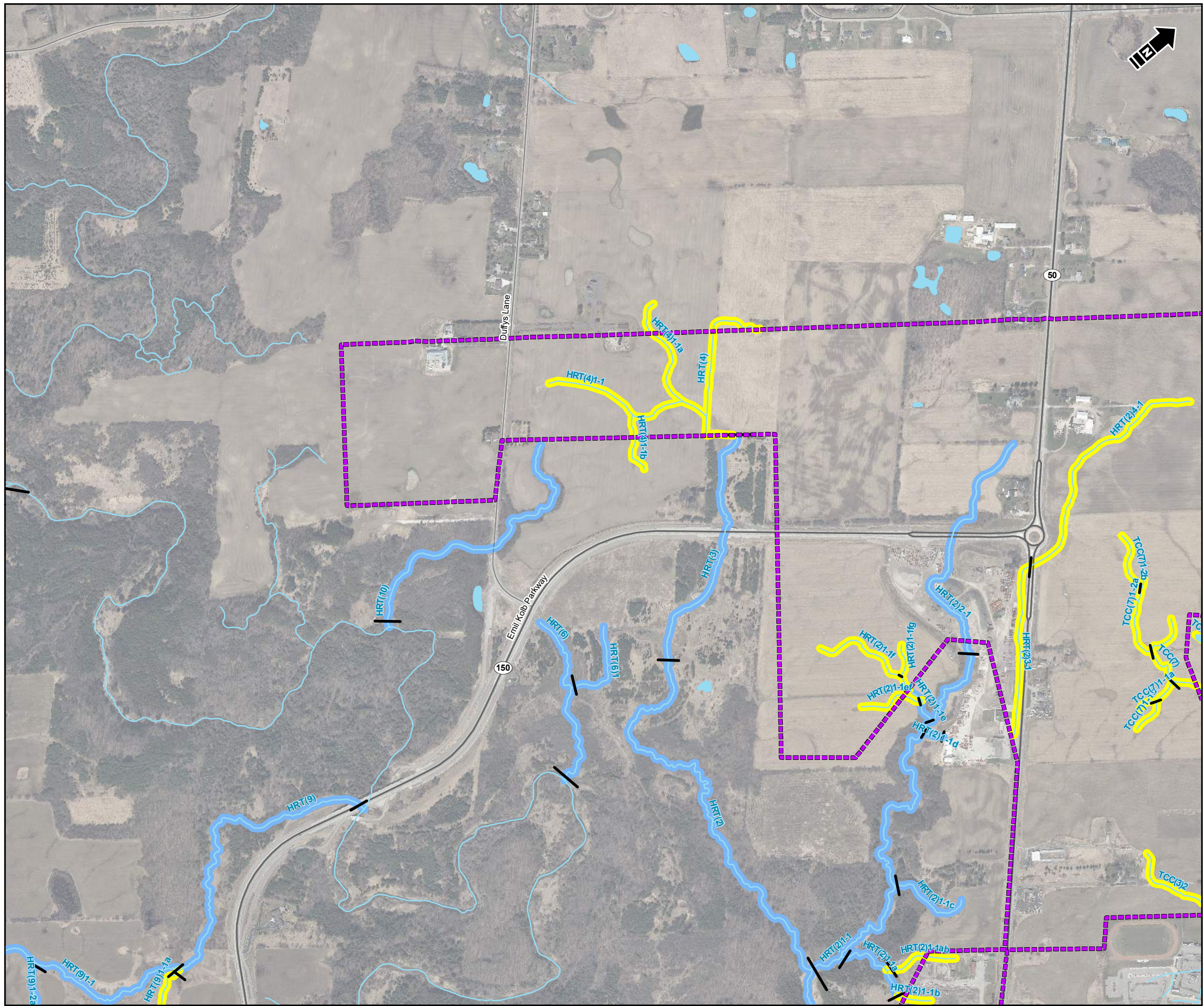
Submitter:	A. Nicoll	F
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Reviewer: J. McDonald

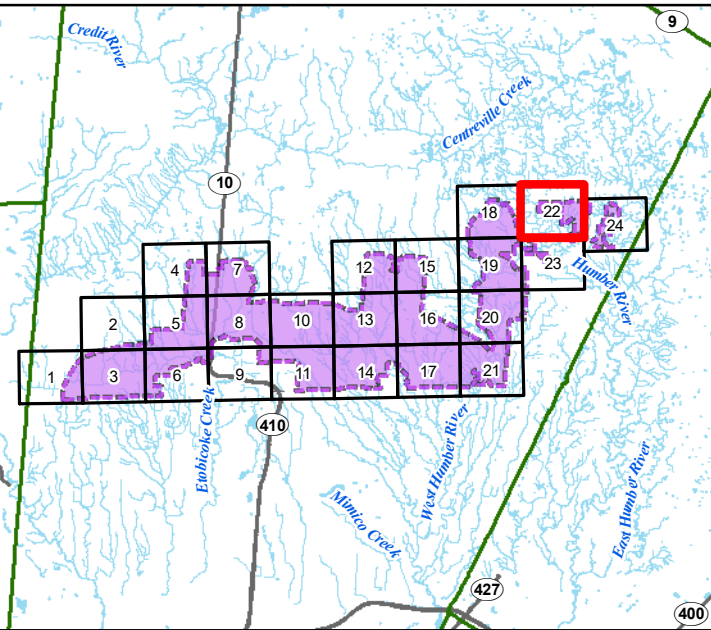
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SM1-21

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- Focus Study Area
- Water Body
- Watercourse
- Highway
- Road
- Reach Break
- Reach Type
 - HDF
 - Watercourse



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NAD 1983 UTM Zone 17N



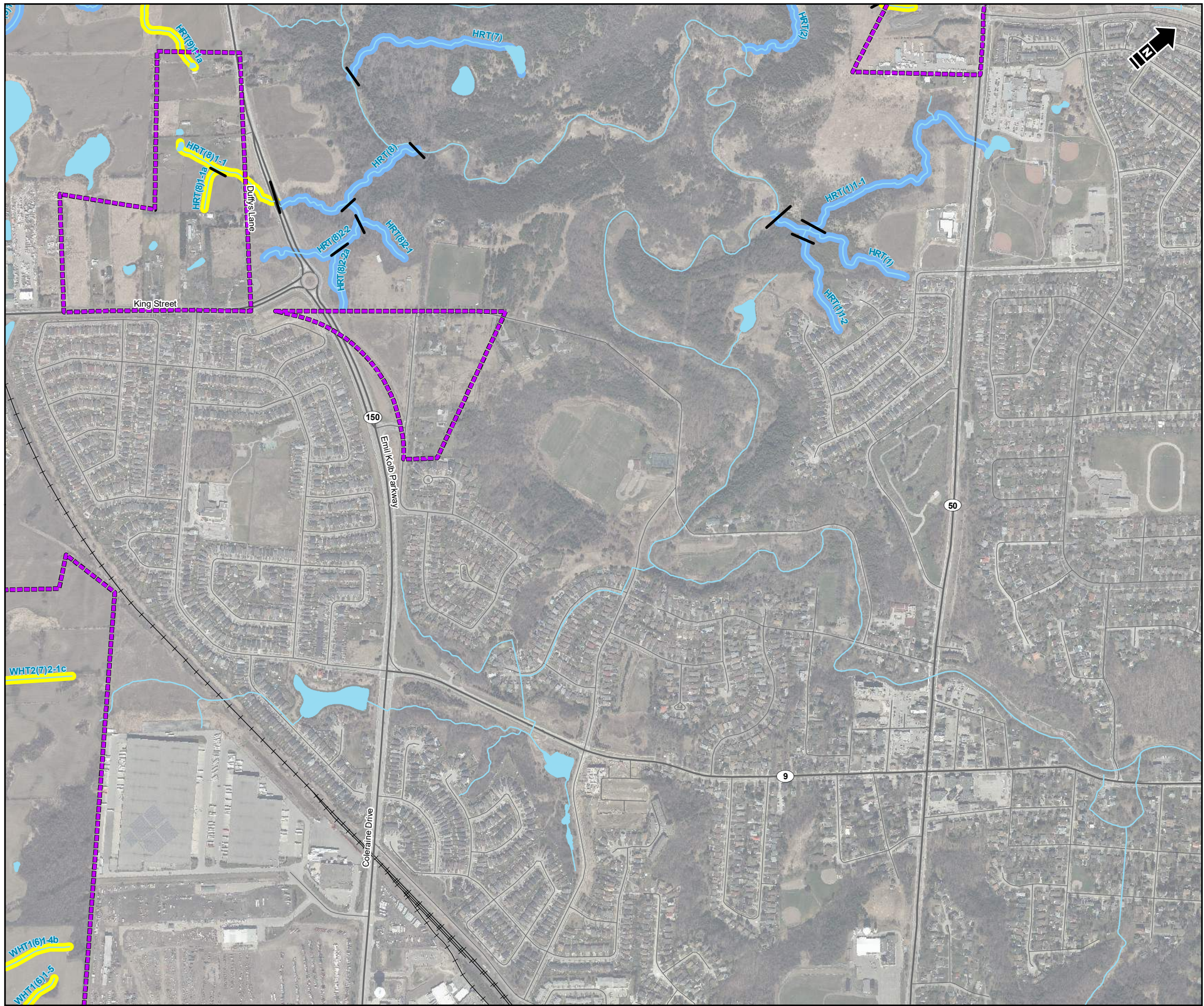
Region of Peel
Caledon SWS, Phase 2 Part A

Watercourse and Headwater Drainage Feature Reaches

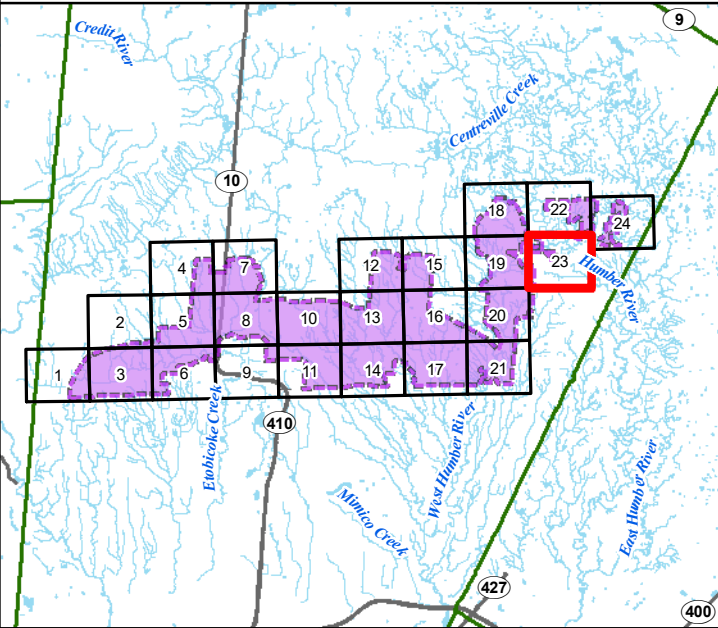
Date: September 2020 Project: 28981 Submitter: A. Nicoll Reviewer: J. McDonald

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- Focus Study Area
- Water Body
- Watercourse
- Highway
- Road
- Railway
- Reach Break
- Reach Type
 - HDF
 - Watercourse



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NAD 1983 UTM Zone 17N

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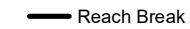
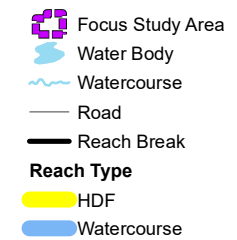
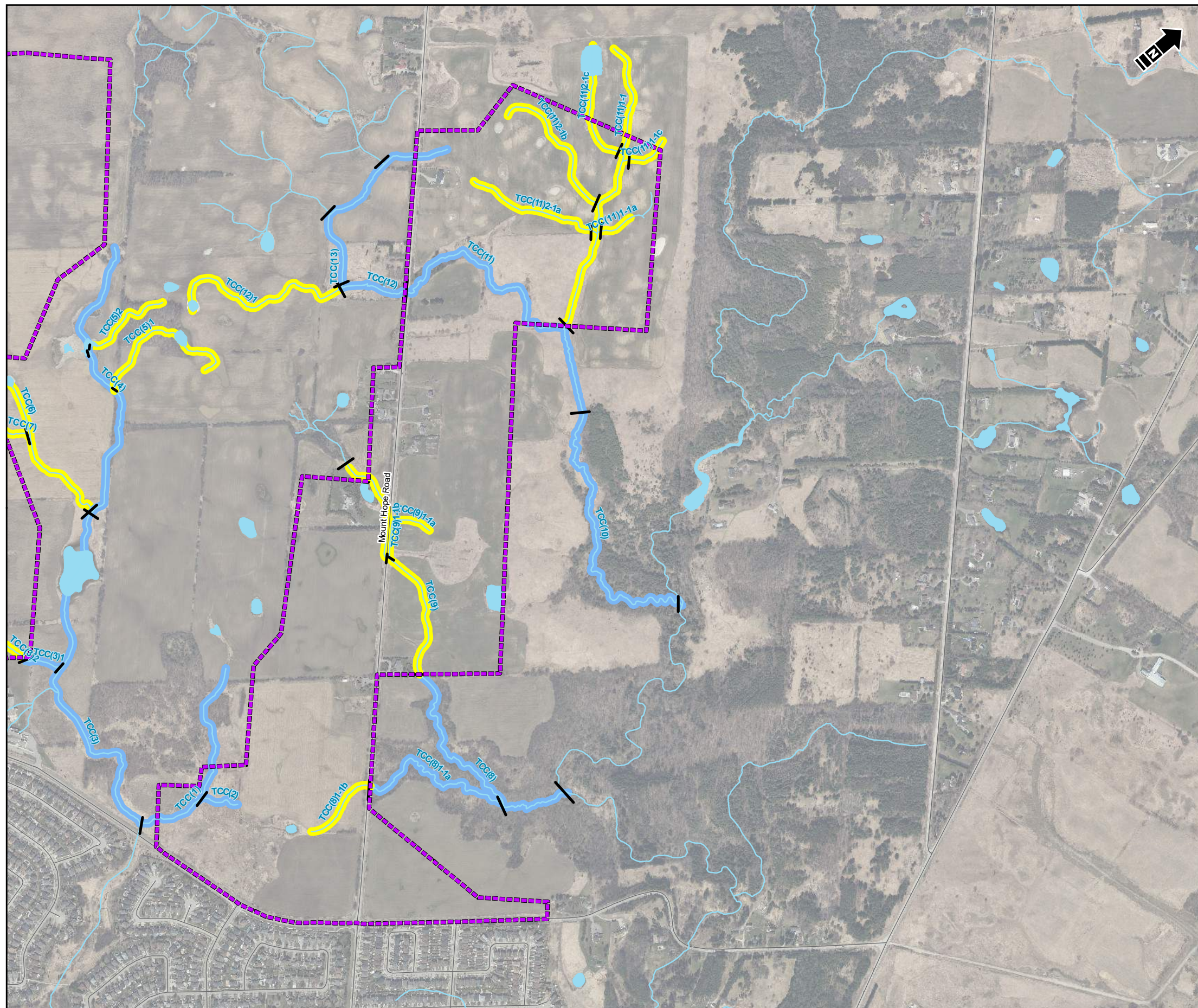
Region of Peel
Caledon SWS, Phase 2 Part A

Watercourse and Headwater Drainage Feature Reaches

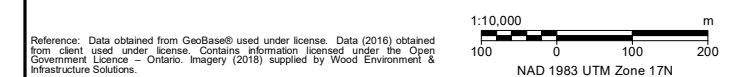
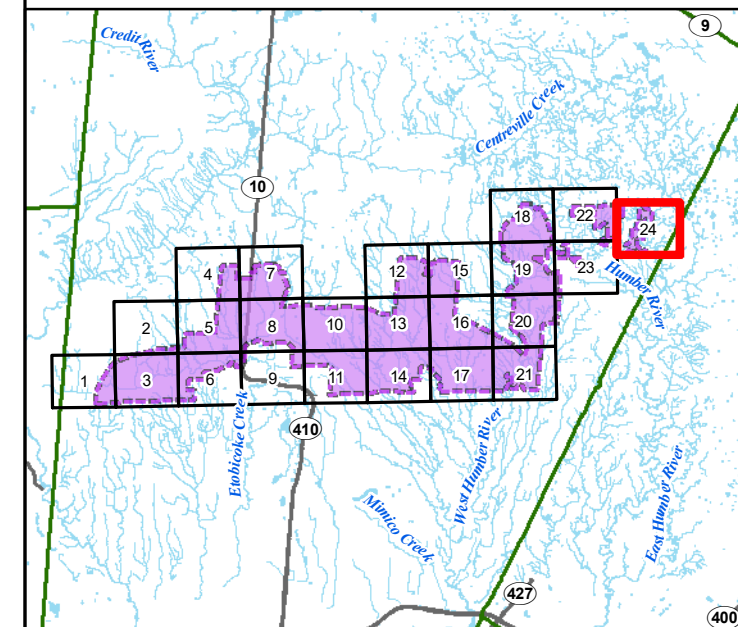
Date: September 2020 Project: 28981 Submitter: A. Nicoll Reviewer: J. McDonald

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Map SM1-23



Reach Type



Region of Peel
Caledon SWS, Phase 2 Part A

Caledon SWS, Phase 2 Part A

Watercourse and Headwater Drainage Feature Reaches

Feature Reaches

Date:	September 2020	Project:	28981	Submitter:	A. Nicoll	Reviewer:	J. McDonald
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	Project
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Submitter:	
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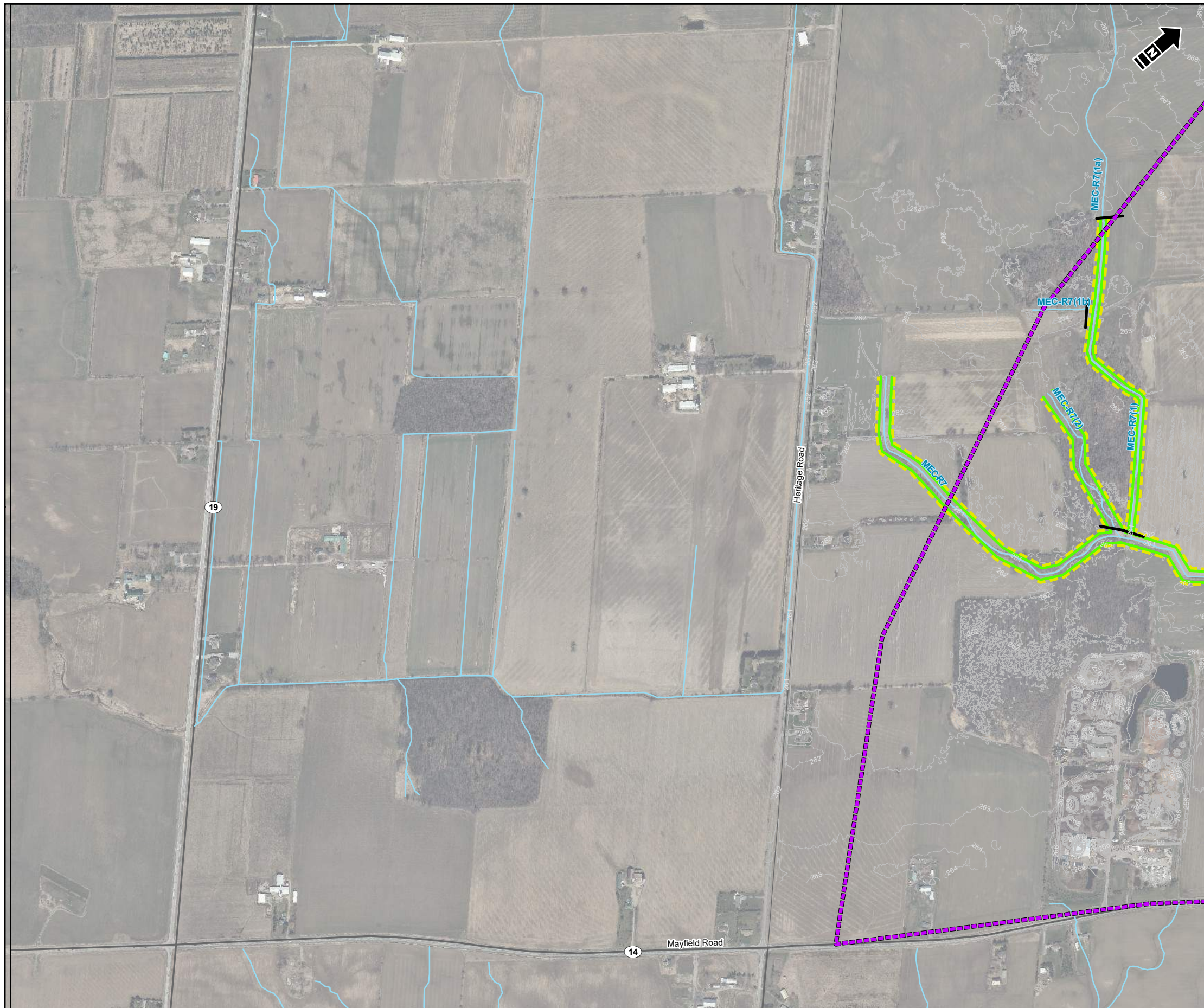
Reviewer:

	2000	2001	2002	2003	2004	2005
1. <i>Chlamydia trachomatis</i>	10.0	10.0	10.0	10.0	10.0	10.0
2. <i>Neisseria meningitidis</i>	10.0	10.0	10.0	10.0	10.0	10.0
3. <i>Streptococcus pneumoniae</i>	10.0	10.0	10.0	10.0	10.0	10.0
4. <i>Haemophilus influenzae</i>	10.0	10.0	10.0	10.0	10.0	10.0
5. <i>Legionella pneumophila</i>	10.0	10.0	10.0	10.0	10.0	10.0
6. <i>Yersinia enterocolitica</i>	10.0	10.0	10.0	10.0	10.0	10.0
7. <i>Salmonella enteritidis</i>	10.0	10.0	10.0	10.0	10.0	10.0
8. <i>Escherichia coli</i>	10.0	10.0	10.0	10.0	10.0	10.0
9. <i>Shigella flexneri</i>	10.0	10.0	10.0	10.0	10.0	10.0
10. <i>Staphylococcus aureus</i>	10.0	10.0	10.0	10.0	10.0	10.0
11. <i>Streptococcus pyogenes</i>	10.0	10.0	10.0	10.0	10.0	10.0
12. <i>Neisseria gonorrhoeae</i>	10.0	10.0	10.0	10.0	10.0	10.0
13. <i>Haemophilus ducreyi</i>	10.0	10.0	10.0	10.0	10.0	10.0
14. <i>Chlamydia pneumoniae</i>	10.0	10.0	10.0	10.0	10.0	10.0
15. <i>Mycobacterium tuberculosis</i>	10.0	10.0	10.0	10.0	10.0	10.0
16. <i>Coccidioides immitis</i>	10.0	10.0	10.0	10.0	10.0	10.0
17. <i>Histoplasma capsulatum</i>	10.0	10.0	10.0	10.0	10.0	10.0
18. <i>Cryptosporidium parvum</i>	10.0	10.0	10.0	10.0	10.0	10.0
19. <i>Isospora belli</i>	10.0	10.0	10.0	10.0	10.0	10.0
20. <i>Toxoplasma gondii</i>	10.0	10.0	10.0	10.0	10.0	10.0
21. <i>Leishmania donovani</i>	10.0	10.0	10.0	10.0	10.0	10.0
22. <i>Trypanosoma brucei</i>	10.0	10.0	10.0	10.0	10.0	10.0
23. <i>Plasmodium falciparum</i>	10.0	10.0	10.0	10.0	10.0	10.0
24. <i>Giardia lamblia</i>	10.0	10.0	10.0	10.0	10.0	10.0
25. <i>Ascaris lumbricoides</i>	10.0	10.0	10.0	10.0	10.0	10.0
26. <i>Strongyloides stercoralis</i>	10.0	10.0	10.0	10.0	10.0	10.0
27. <i>Trichostrongylus axei</i>	10.0	10.0	10.0	10.0	10.0	10.0
28. <i>Trichostrongylus colubriformis</i>	10.0	10.0	10.0	10.0	10.0	10.0
29. <i>Ostertagia circumcincta</i>	10.0	10.0	10.0	10.0	10.0	10.0
30. <i>Haemonchus contortus</i>	10.0	10.0	10.0	10.0	10.0	10.0
31. <i>Trichostrongylus colubriformis</i>	10.0	10.0	10.0	10.0	10.0	10.0
32. <i>Trichostrongylus axei</i>	10.0	10.0	10.0	10.0	10.0	10.0
33. <i>Trichostrongylus colubriformis</i>	10.0	10.0	10.0	10.0	10.0	10.0
34. <i>Trichostrongylus axei</i>	10.0	10.0	10.0	10.0	10.0	10.0
35. <i>Trichostrongylus colubriformis</i>	10.0	10.0	10.0	10.0	10.0	10.0
36. <i>Trichostrongylus axei</i>	10.0	10.0	10.0	10.0	10.0	10.0
37. <i>Trichostrongylus colubriformis</i>	10.0	10.0	10.0	10.0	10.0	10.0
38. <i>Trichostrongylus axei</i>	10.0	10.0	10.0	10.0	10.0	10.0
39. <i>Trichostrongylus colubriformis</i>	10.0	10.0	10.0	10.0	10.0	10.0
40. <i>Trichostrongylus axei</i>	10.0	10.0	10.0	10.0	10.0	10.0
41. <i>Trichostrongylus colubriformis</i>	10.0	10.0	10.0	10.0	10.0	10.0
42. <i>Trichostrongylus axei</i>	10.0	10.0	10.0	10.0	10.0	10.0
43. <i>Trichostrongylus colubriformis</i>	10.0	10.0	10.0	10.0	10.0	10.0
44. <i>Trichostrongylus axei</i>	10.0	10.0	10.0	10.0	10.0	10.0
45. <i>Trichostrongylus colubriformis</i>	10.0	10.0	10.0	10.0	10.0	10.0
46. <i>Trichostrongylus axei</i>	10.0	10.0	10.0			

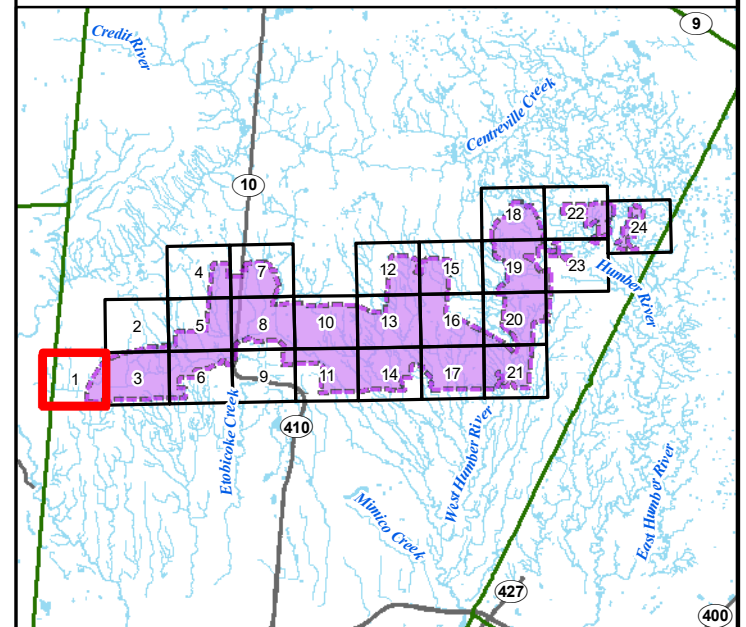
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Map
SM1-24

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- Focus Study Area
- Watercourse
- Highway
- Road
- Reach Break
- Ground Elevation Contour (1m)
- 6m Erosion Access Allowance
- Final Unconfined Meander Belt Width (20% FOS)



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1:10,000
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NAD 1983 UTM Zone 17N

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ENVIRONMENT & ENGINEERING

Region of Peel
Caledon SWS, Phase 2 Part A

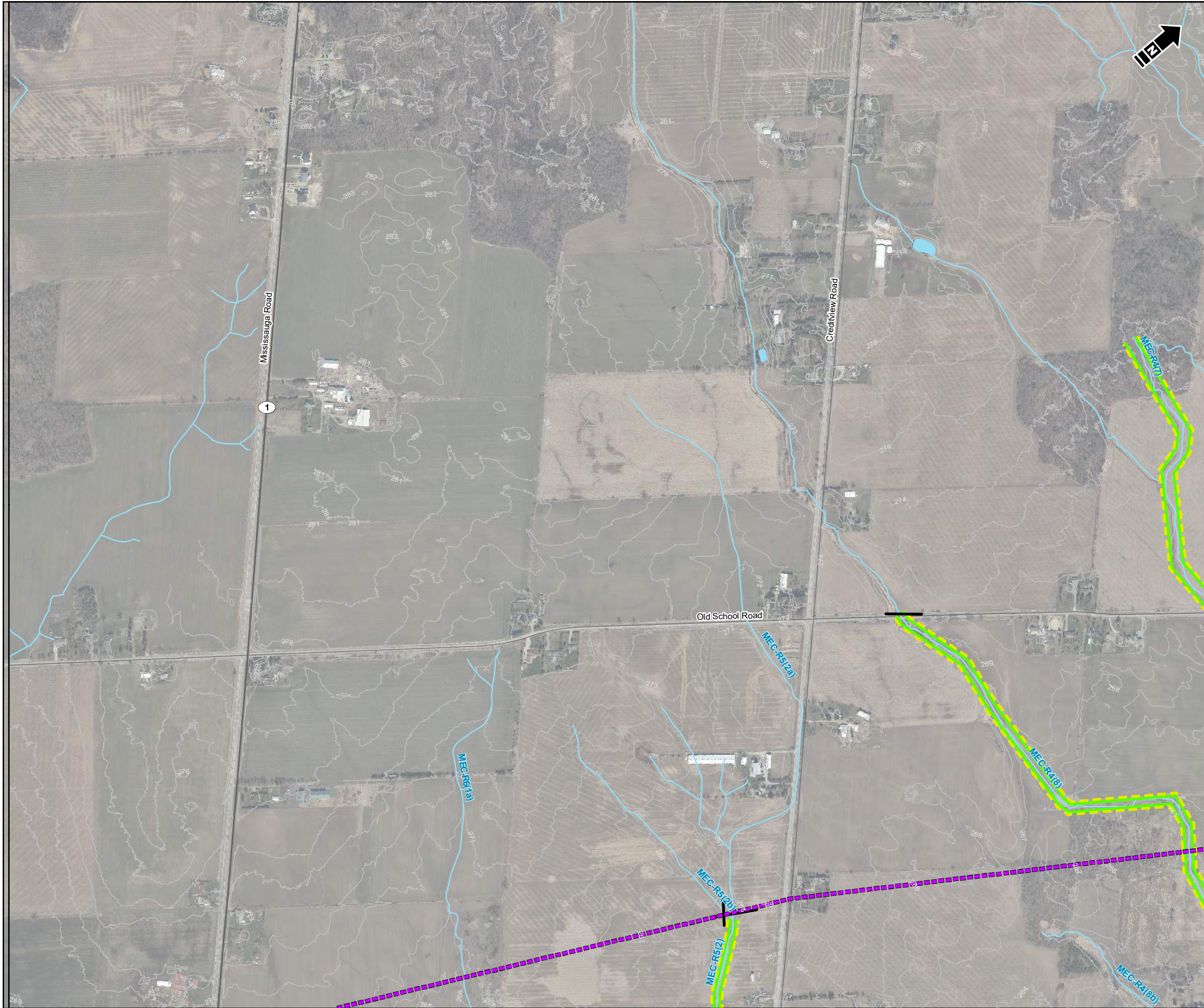
DRAFT
Erosion Hazard Limits

Date: September 2020 Project: 28981 Submitter: A. Nicoll Reviewer: J. McDonald

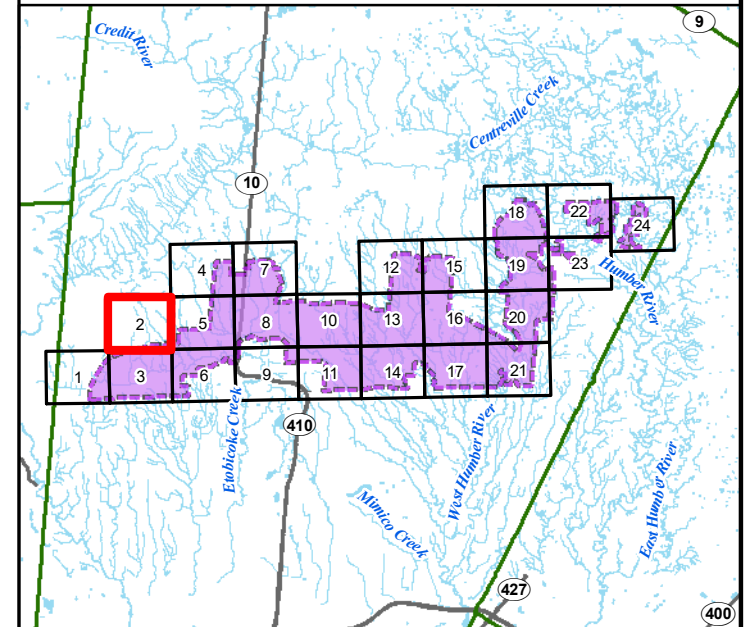
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Map
SM2-1

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- Focus Study Area
- Water Body
- Watercourse
- Highway
- Road
- Reach Break
- Ground Elevation Contour (1m)
- 6m Erosion Access Allowance
- Final Unconfined Meander Belt Width (20% FOS)



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NAD 1983 UTM Zone 17N

Matrix Solutions Inc.
ENVIRONMENT & ENGINEERING

Region of Peel
Caledon SWS, Phase 2 Part A

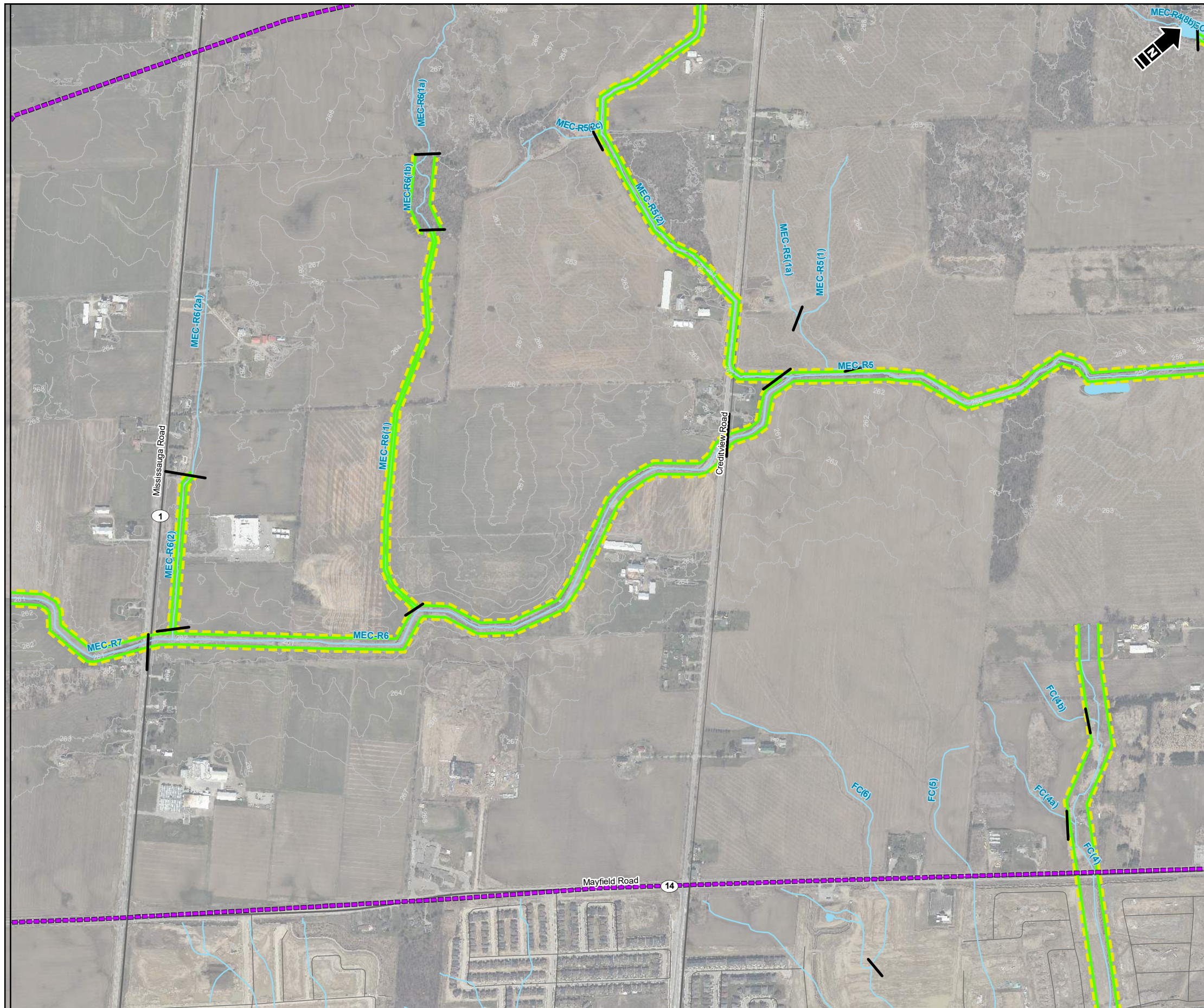
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Erosion Hazard Limits

Date: September 2020 Project: 28981 Submitter: A. Nicoll Reviewer: J. McDonald

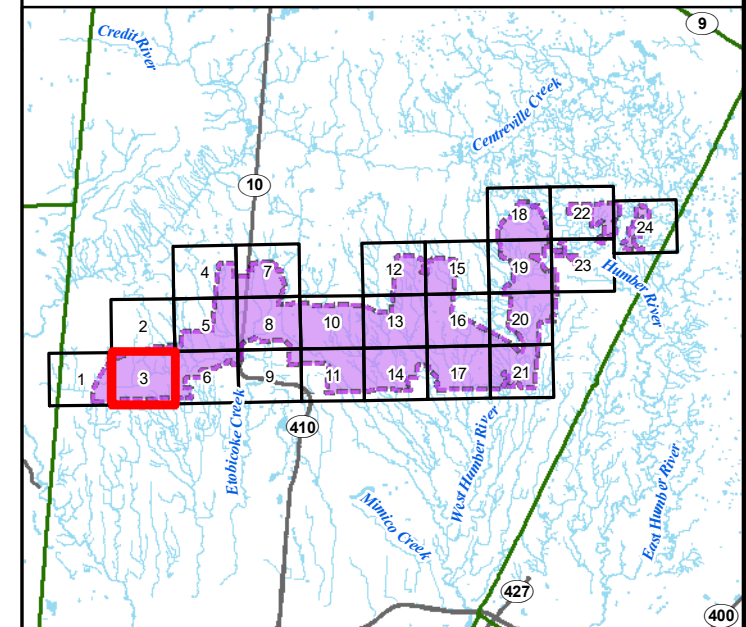
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Map SM2-2

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- Focus Study Area
- Water Body
- Watercourse
- Highway
- Road
- Reach Break
- Ground Elevation Contour (1m)
- 6m Erosion Access Allowance
- Final Unconfined Meander Belt Width (20% FOS)



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Region of Peel
Caledon SWS, Phase 2 Part A

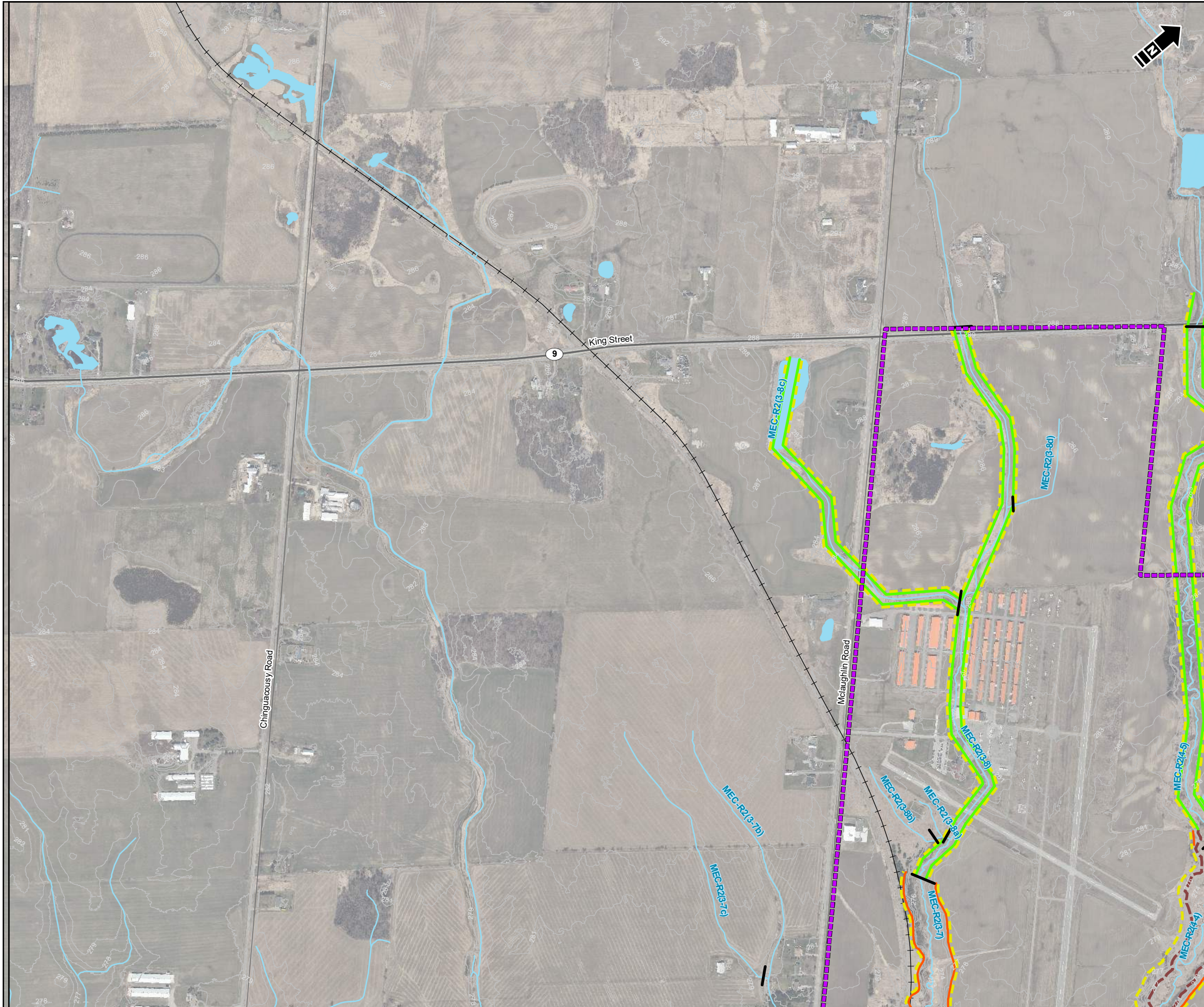
DRAFT
Erosion Hazard Limits

Date: September 2020 Project: 28981 Submitter: A. Nicoll Reviewer: J. McDonald

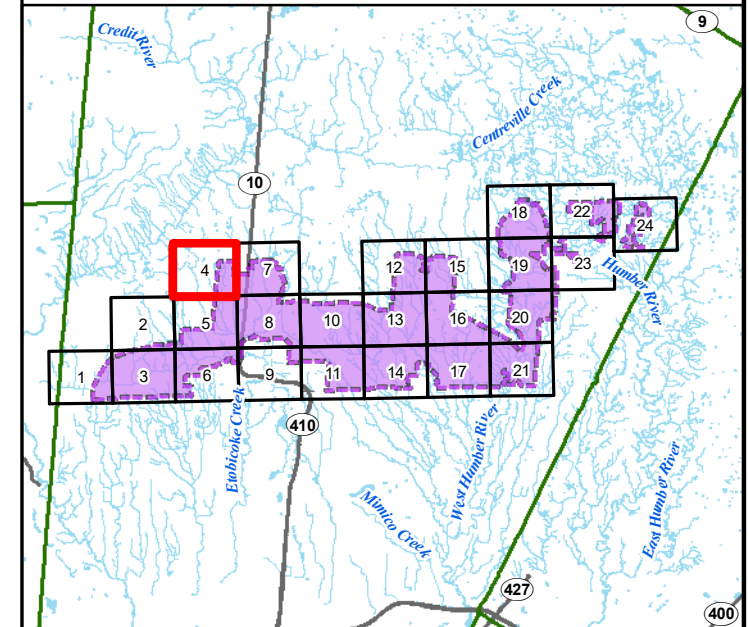
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Map
SM2-3

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- Focus Study Area
- Water Body
- Watercourse
- Highway
- Road
- Railway
- Reach Break
- Ground Elevation Contour (1m)
- Physical Crest of Slope (provided by TRCA)
- 6m Erosion Access Allowance
- Final Unconfined Meander Belt Width (20% FOS)
- Toe of Slope



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Caledon SWS, Phase 2 Part A

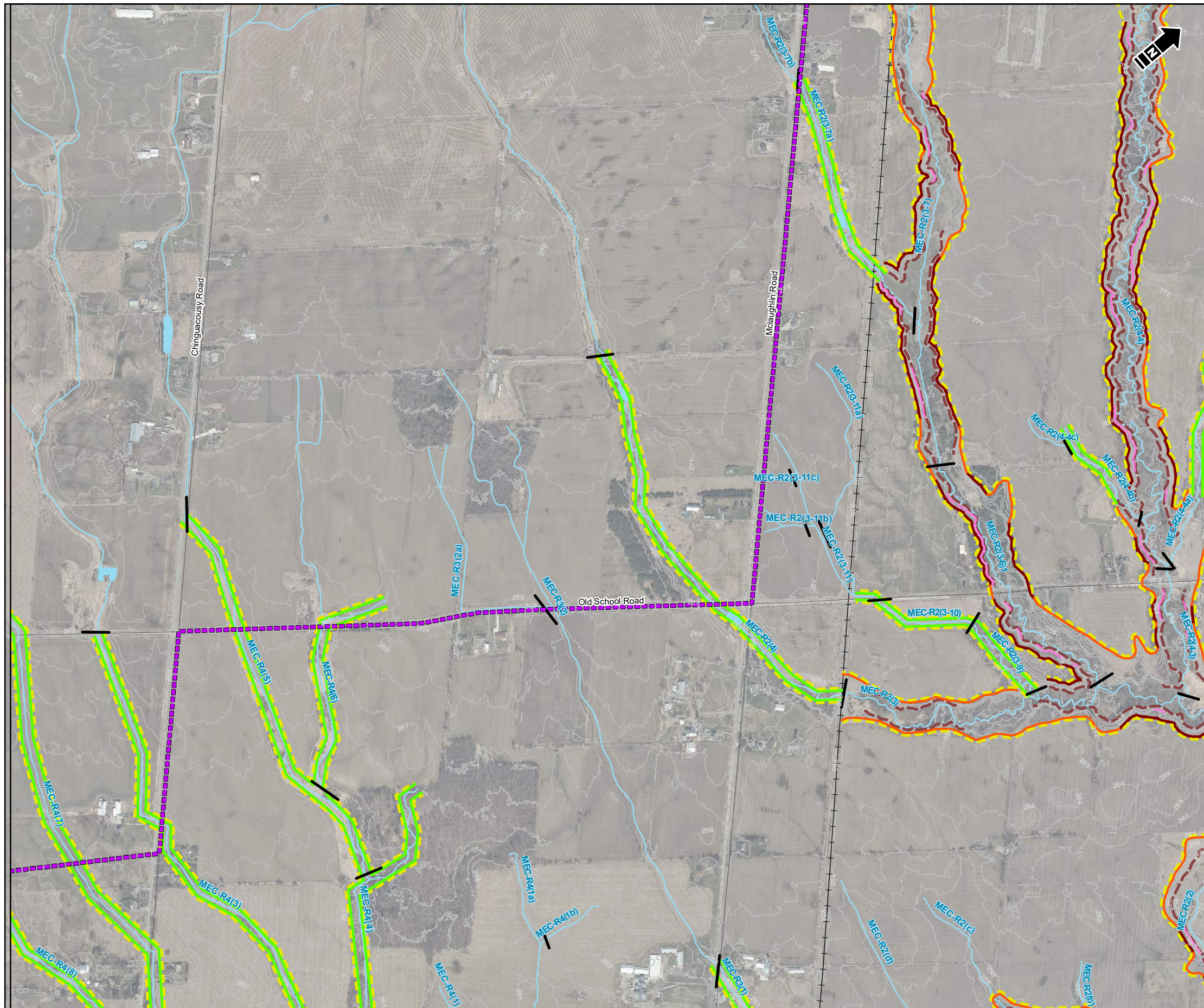
DRAFT
Erosion Hazard Limits

Date: September 2020 Project: 28981 Submitter: A. Nicoll Reviewer: J. McDonald

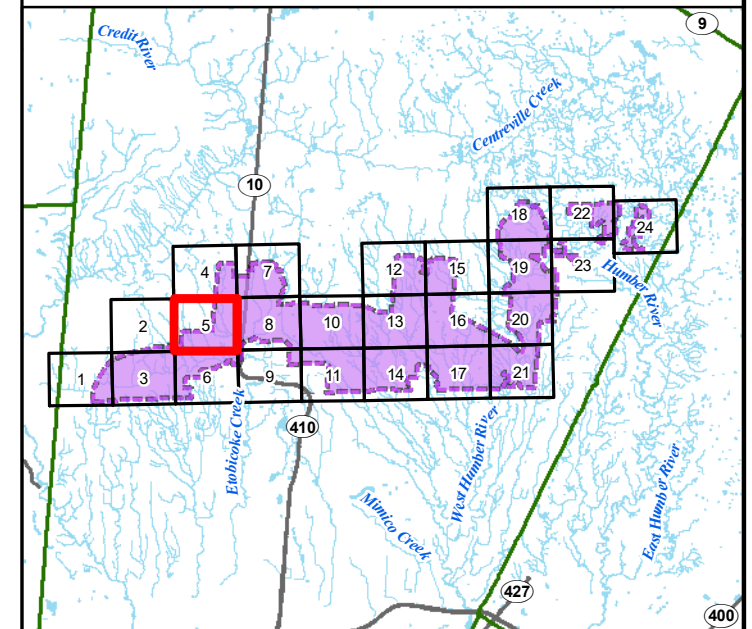
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Map
SM2-4

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- Focus Study Area
- Water Body
- Watercourse
- Road
- Railway
- Reach Break
- Ground Elevation Contour (1m)
- Physical Crest of Slope (provided by TRCA)
- Toe Erosion Offset
- 6m Erosion Access Allowance
- Final Unconfined Meander Belt Width (20% FOS)
- Toe of Slope
- Stable Slope Allowance (Confined Reaches)



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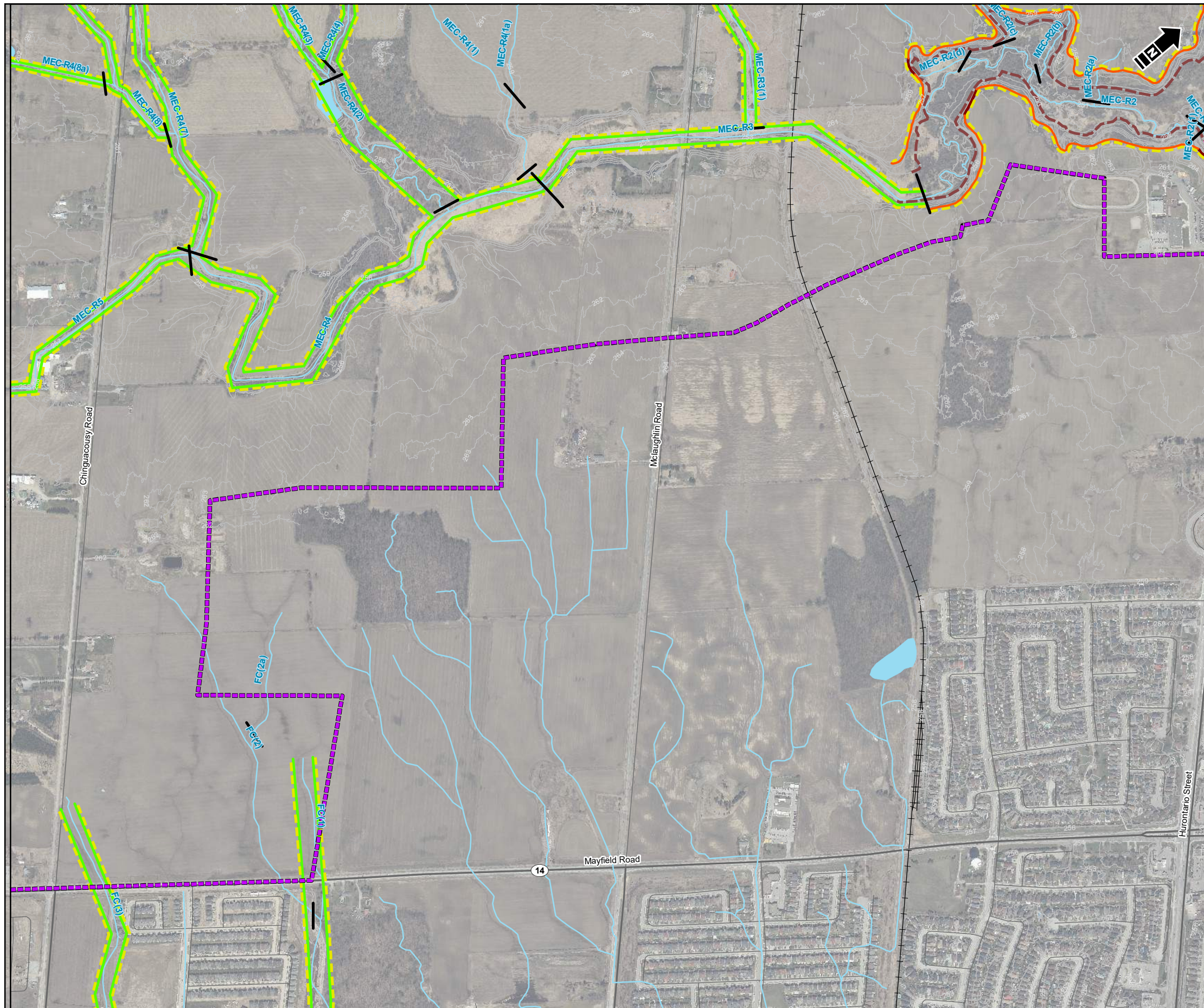
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Erosion Hazard Limits

Date: September 2020 Project: 28981 Submitter: A. Nicoll Reviewer: J. McDonald

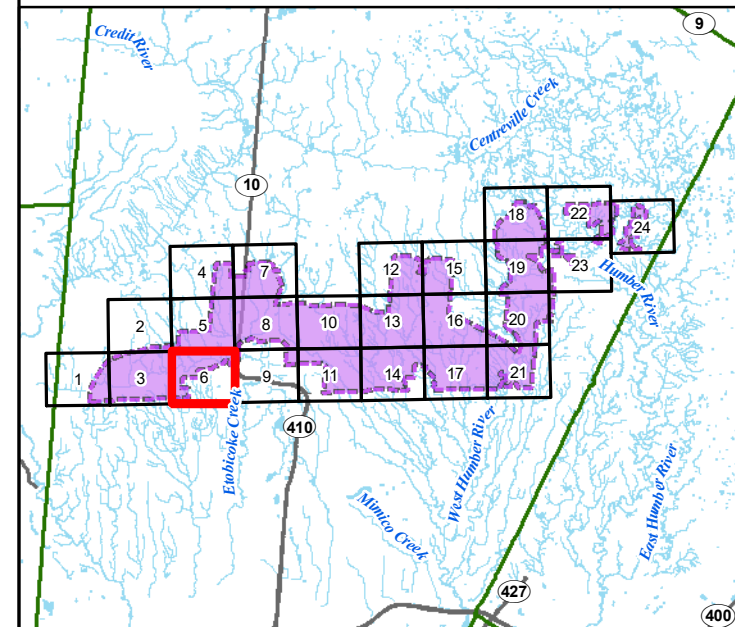
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Map SM2-5

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- Focus Study Area
- Water Body
- Watercourse
- Highway
- Road
- Railway
- Reach Break
- Ground Elevation Contour (1m)
- Physical Crest of Slope (provided by TRCA)
- Toe Erosion Offset
- 6m Erosion Access Allowance
- Final Unconfined Meander Belt Width (20% FOS)
- Toe of Slope
- Stable Slope Allowance (Confined Reaches)



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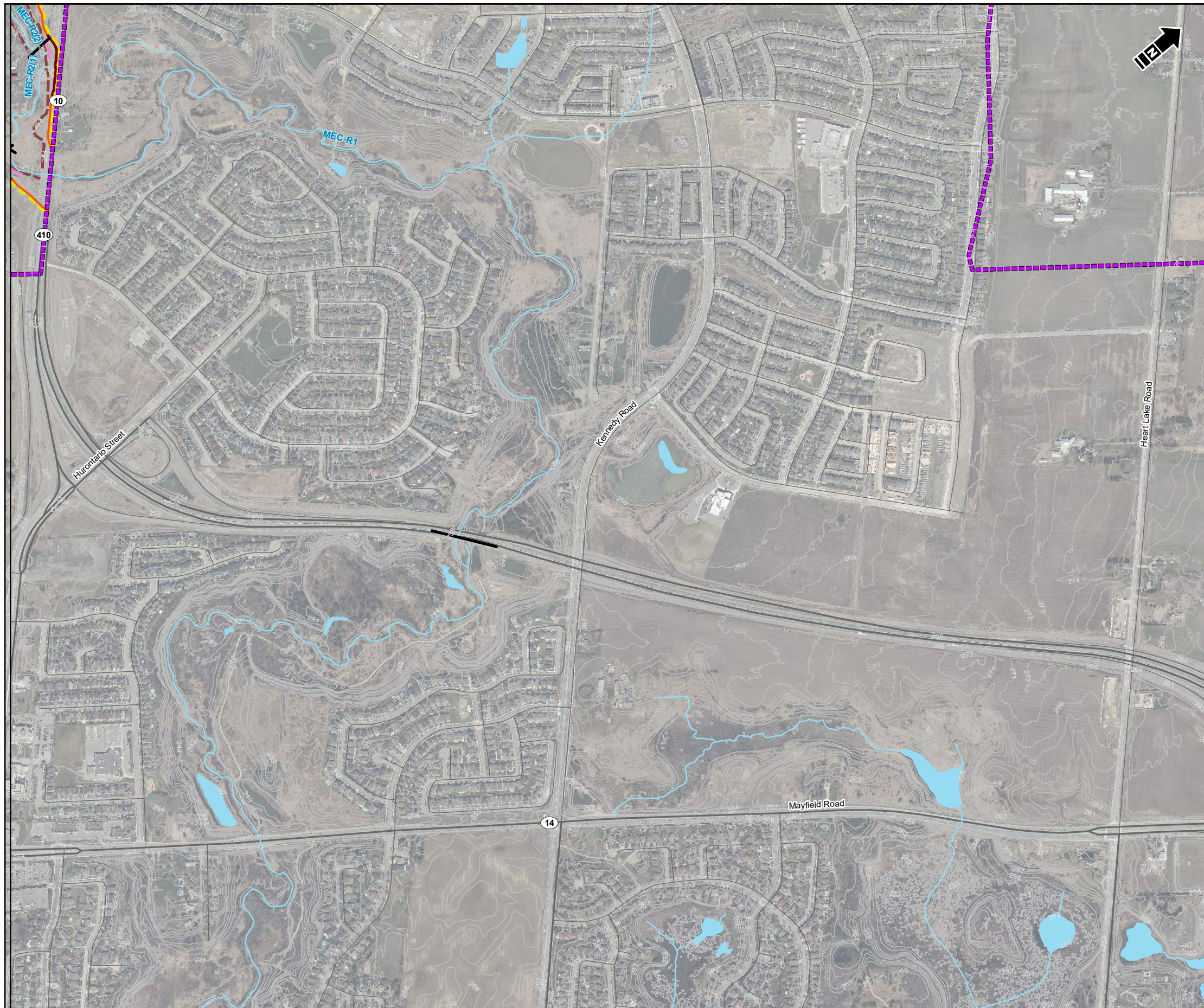
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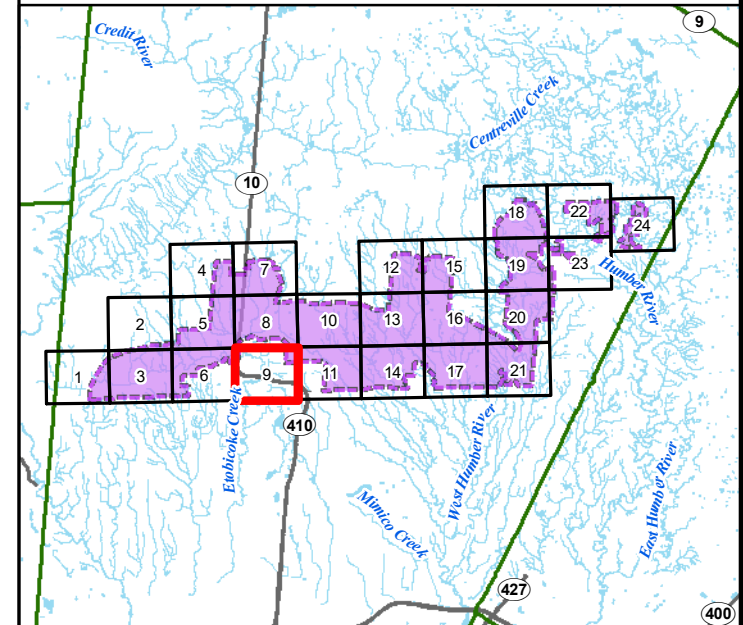
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Map SM2-6

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- Focus Study Area
- Water Body
- Watercourse
- Highway
- Road
- Reach Break
- Ground Elevation Contour (1m)
- Physical Crest of Slope (provided by TRCA)
- Toe Erosion Offset
- 6m Erosion Access Allowance
- Toe of Slope
- Stable Slope Allowance (Confined Reaches)



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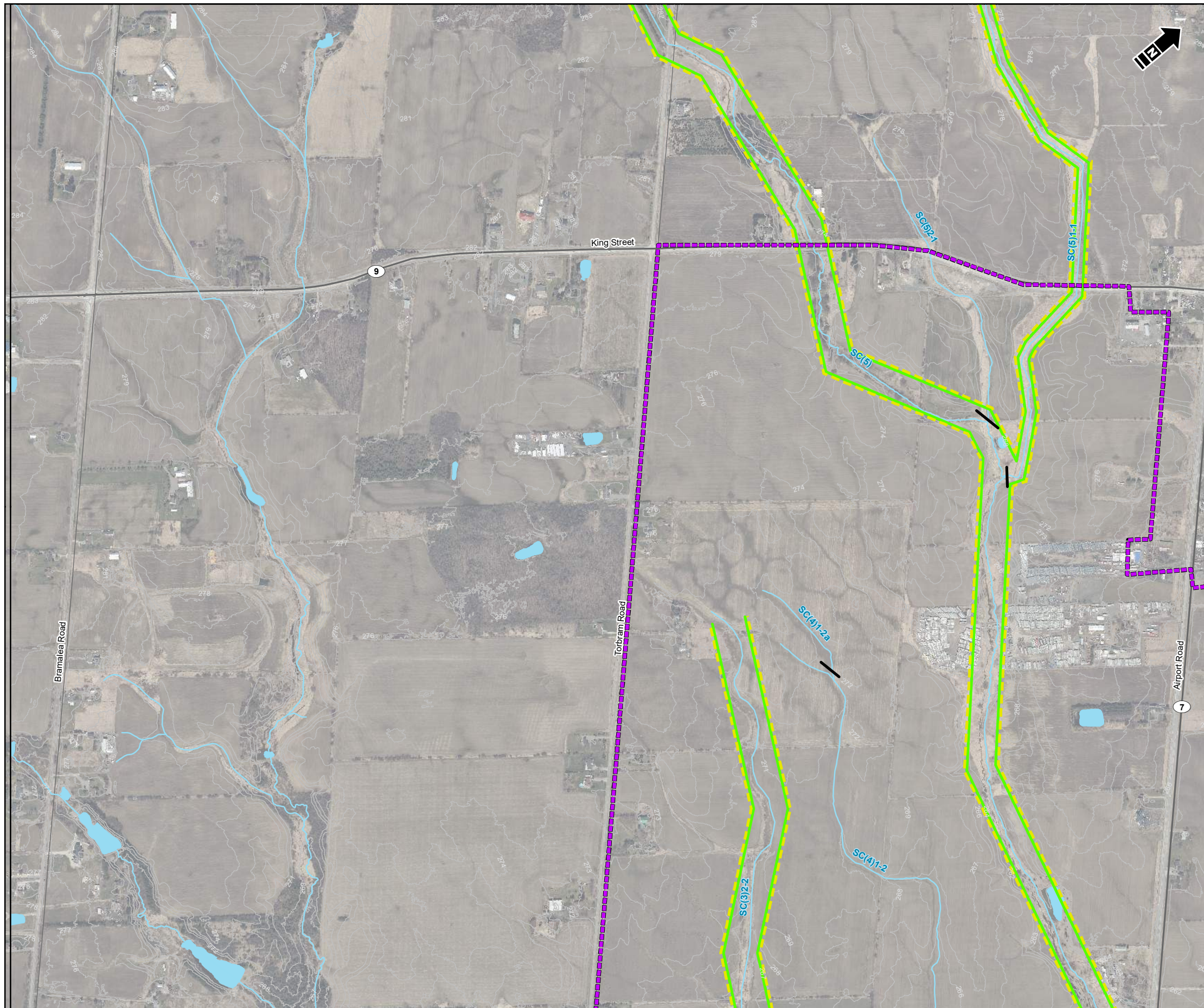
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Erosion Hazard Limits

Date: September 2020 Project: 28981 Submitter: A. Nicoll Reviewer: J. McDonald

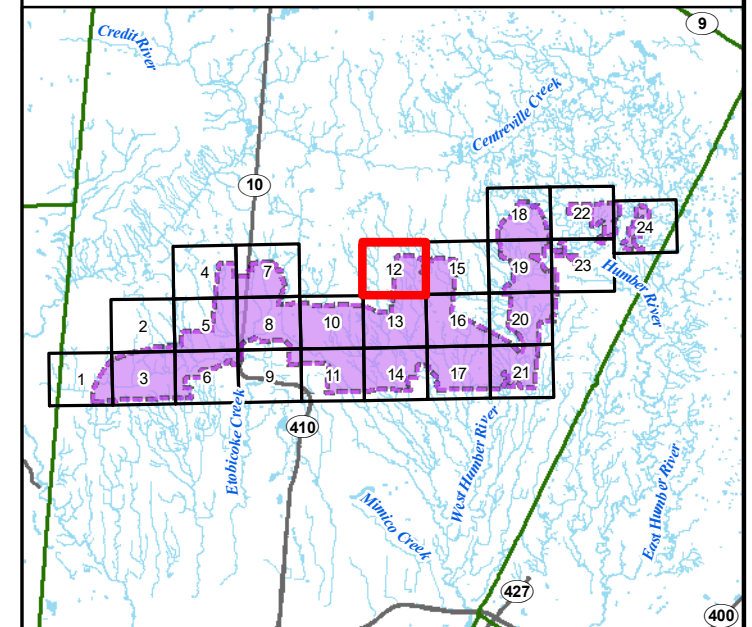
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Map SM2-9

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- Focus Study Area
- Water Body
- Watercourse
- Highway
- Road
- Reach Break
- Ground Elevation Contour (1m)
- 6m Erosion Access Allowance
- Final Unconfined Meander Belt Width (20% FOS)



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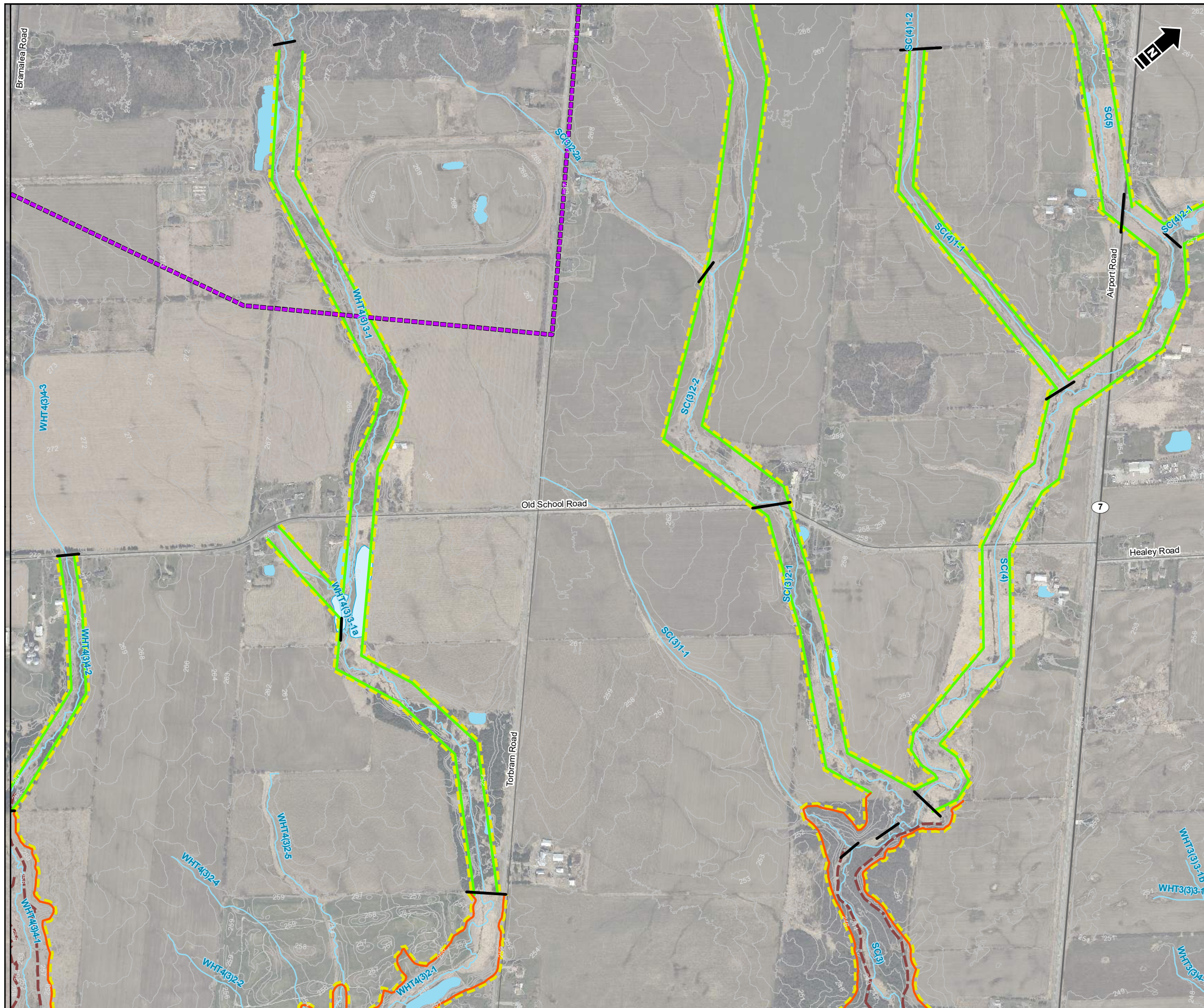
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Erosion Hazard Limits

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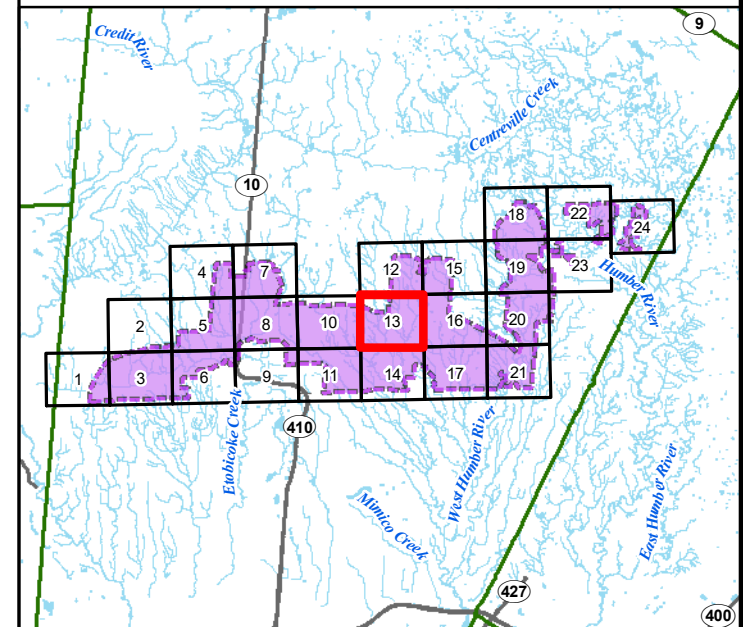
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Map SM2-12

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- Focus Study Area
- Pond
- Water Body
- Watercourse
- Highway
- Road
- Reach Break
- Ground Elevation Contour (1m)
- Physical Crest of Slope (provided by TRCA)
- 6m Erosion Access Allowance
- Final Unconfined Meander Belt Width (20% FOS)
- Toe of Slope



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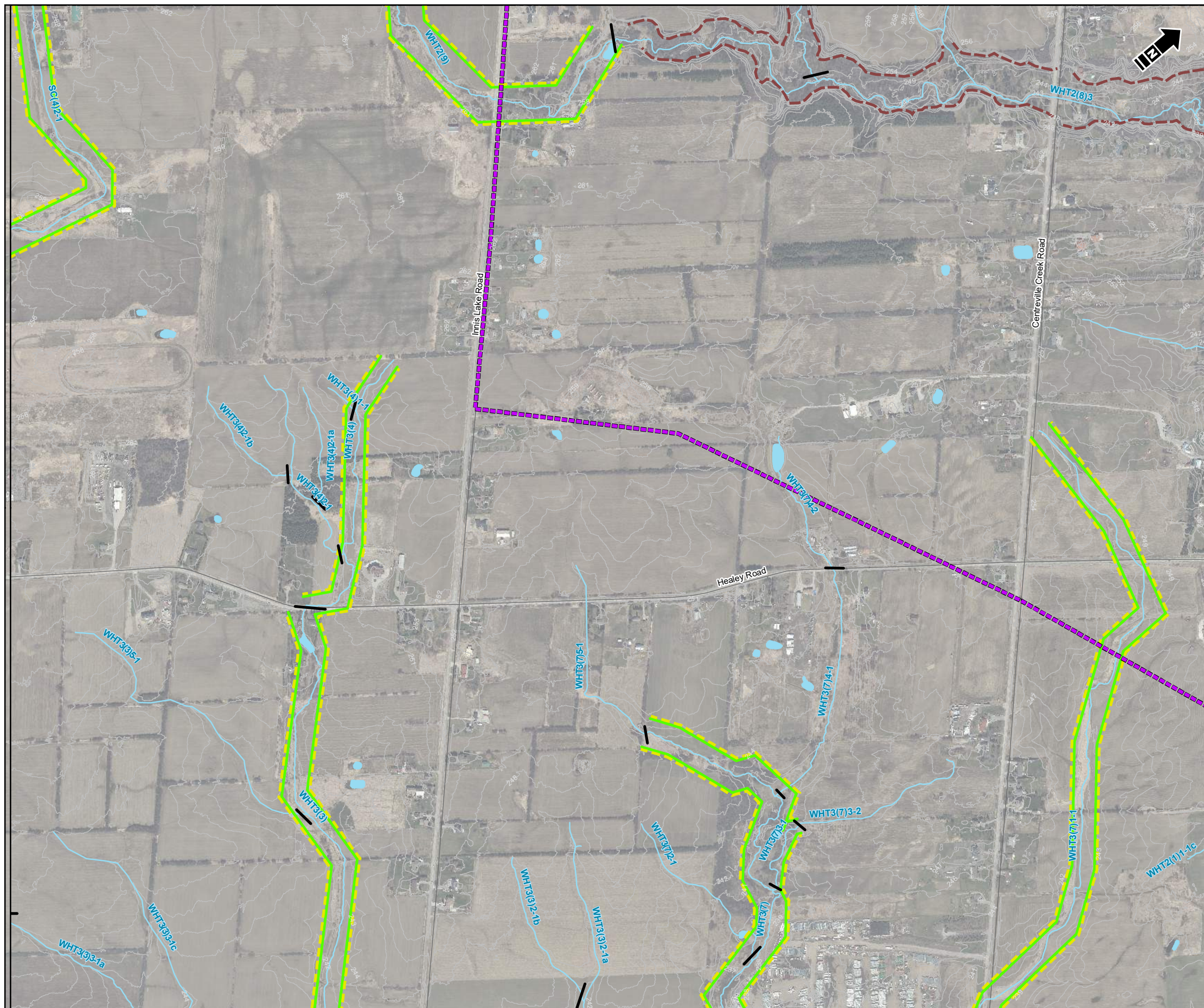
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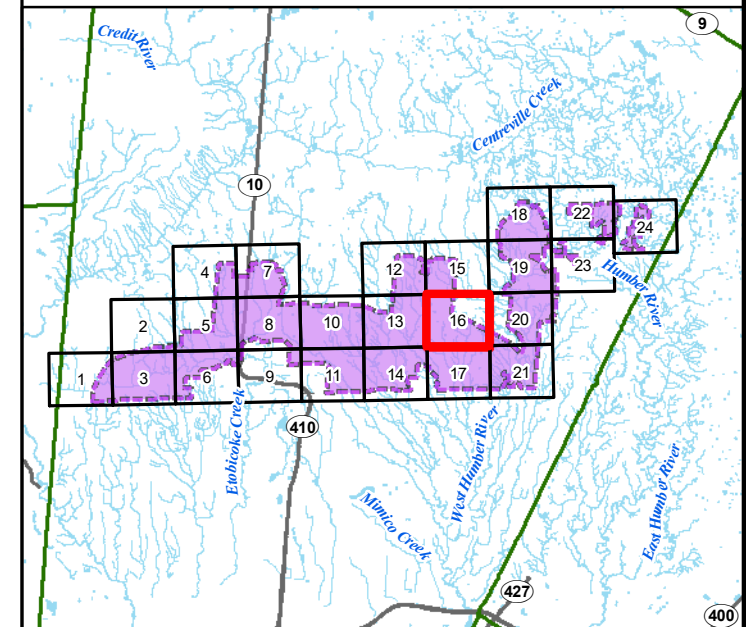
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Map SM2-13



-  Focus Study Area
-  Water Body
-  Watercourse
-  Road
-  Reach Break
-  Ground Elevation Contour (1m)
-  6m Erosion Access Allowance
-  Final Unconfined Meander Belt Width (20% FOS)
-  Toe of Slope



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Region of Peel
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Erosion Hazard Limits

Date:	September 2020	Project:	28981	Submitter:	A. Nicoll	Reviewer:	J. McDonald
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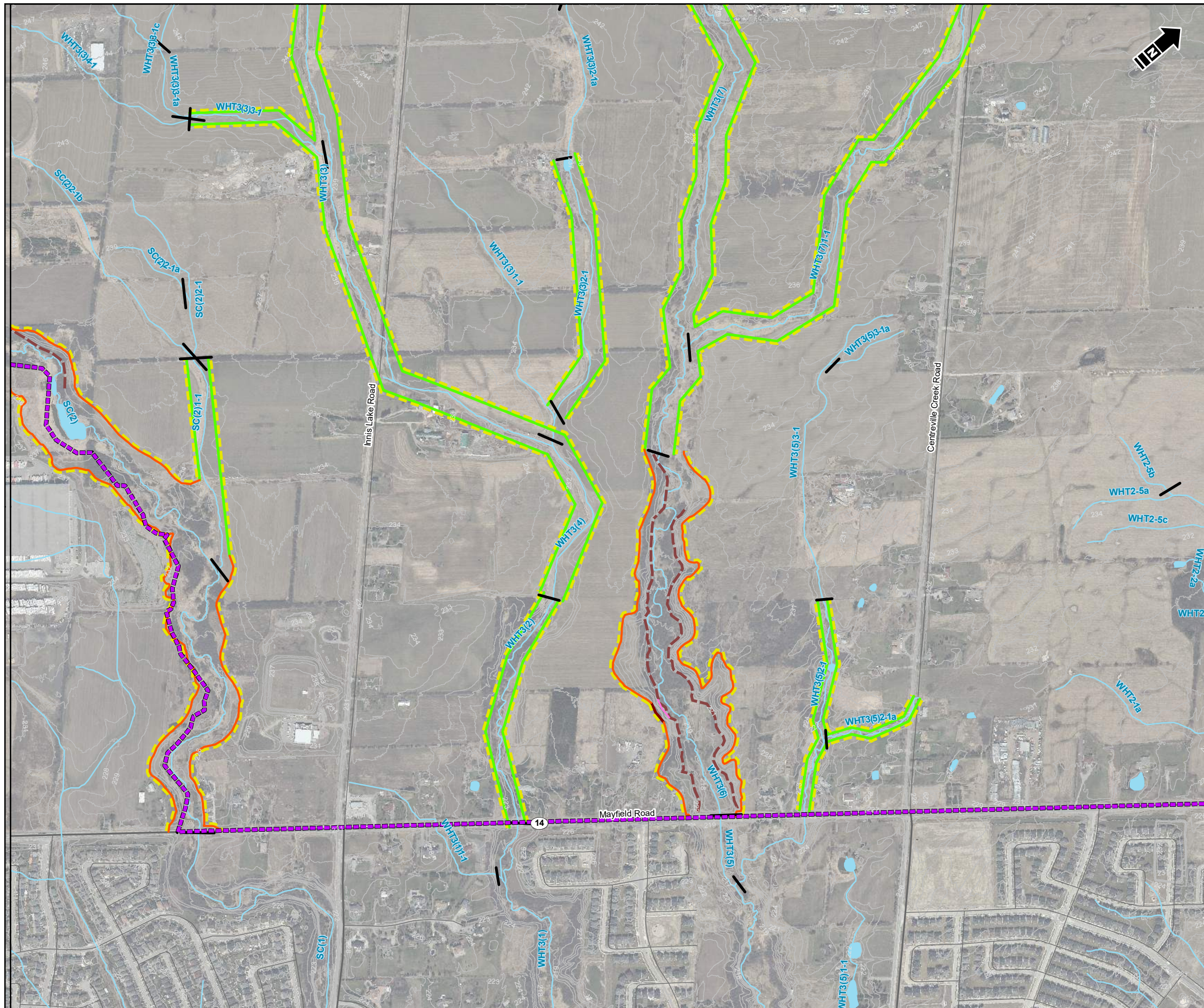
Submitter:	A. Nicoll	R
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Reviewer:	J. McDonald
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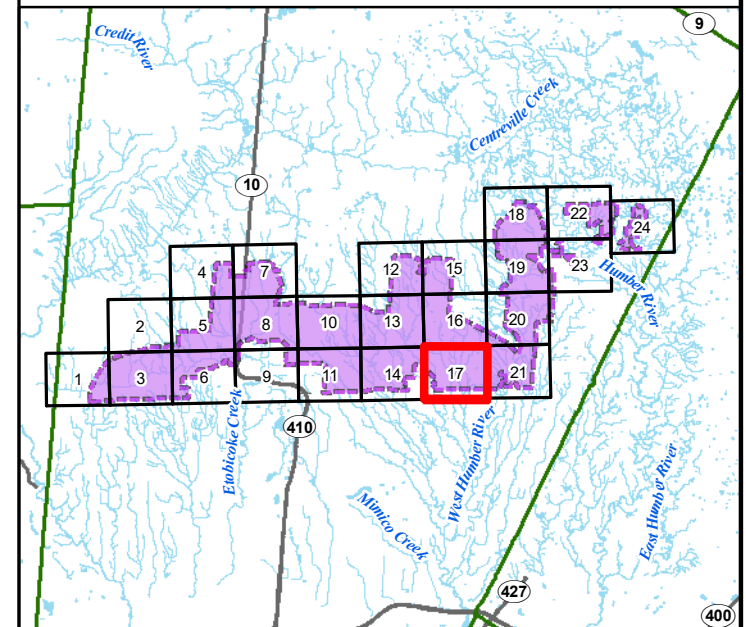
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SM2-16

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- Focus Study Area
- Water Body
- Watercourse
- Highway
- Road
- Reach Break
- Ground Elevation Contour (1m)
- Physical Crest of Slope (provided by TRCA)
- Toe Erosion Offset
- 6m Erosion Access Allowance
- Final Unconfined Meander Belt Width (20% FOS)
- Toe of Slope
- Stable Slope Allowance (Confined Reaches)



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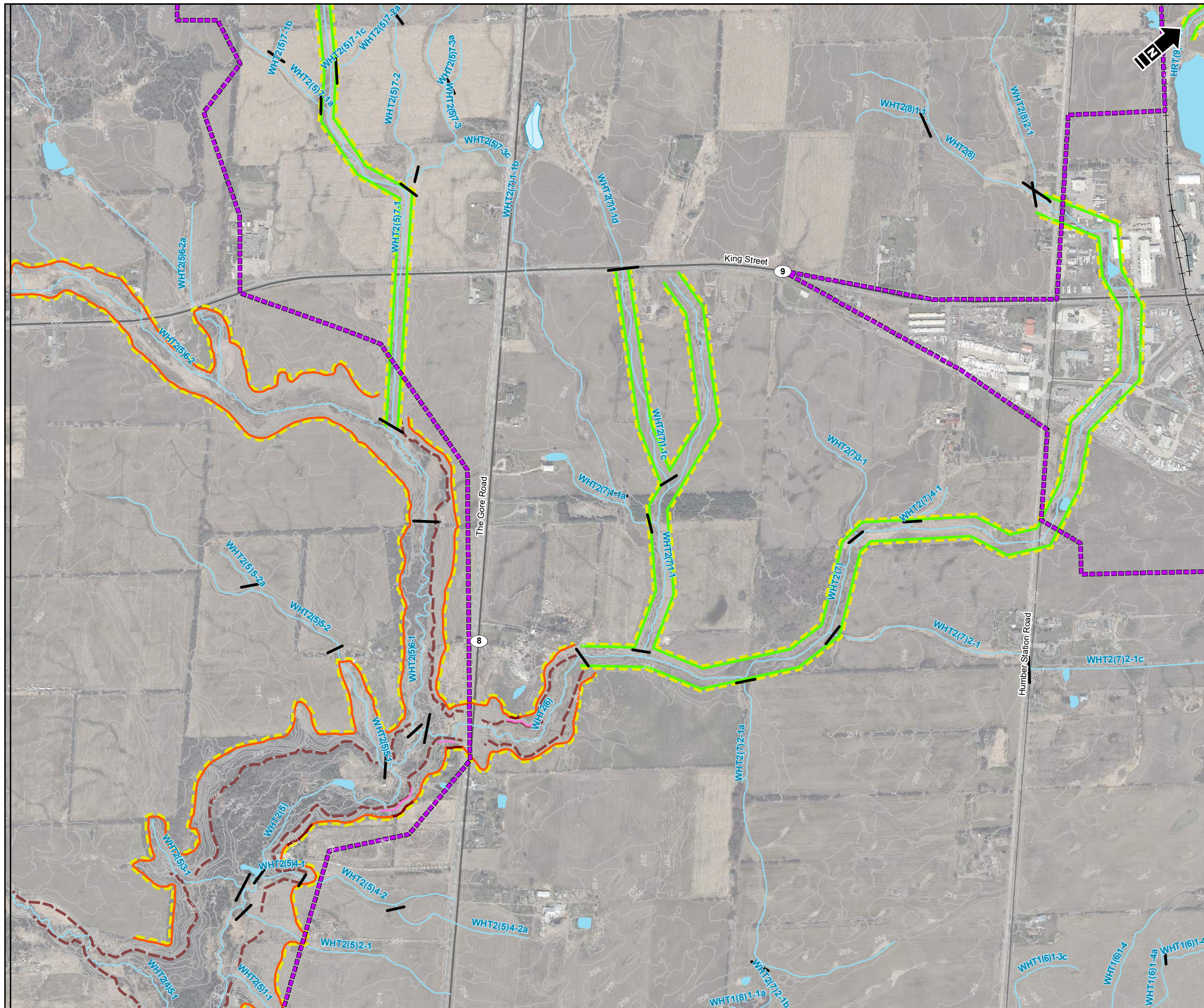
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Erosion Hazard Limits

Date: September 2020 Project: 28981 Submitter: A. Nicoll Reviewer: J. McDonald

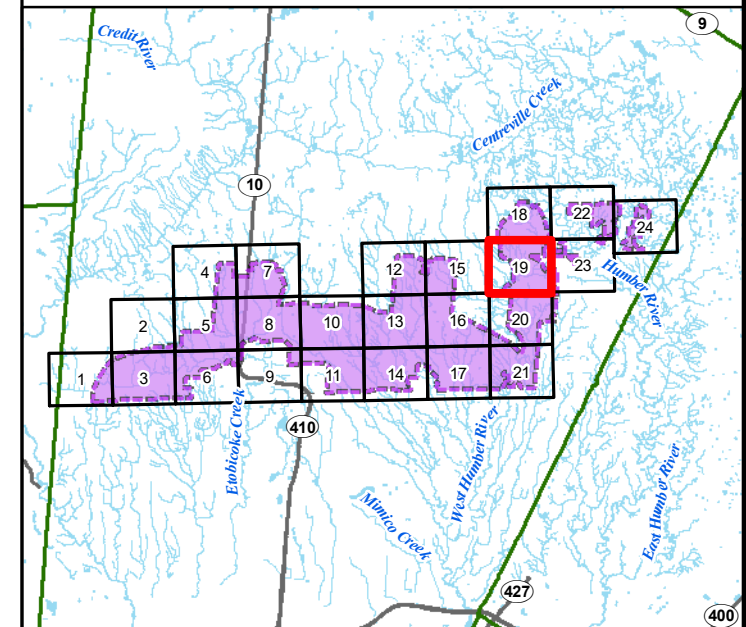
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Map SM2-17

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- Focus Study Area
- Pond
- Water Body
- Watercourse
- Highway
- Road
- Railway
- Reach Break
- Ground Elevation Contour (1m)
- Physical Crest of Slope (provided by TRCA)
- Toe Erosion Offset
- 6m Erosion Access Allowance
- Final Unconfined Meander Belt Width (20% FOS)
- Toe of Slope
- Stable Slope Allowance (Confined Reaches)



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Region of Peel
Caledon SWS, Phase 2 Part A

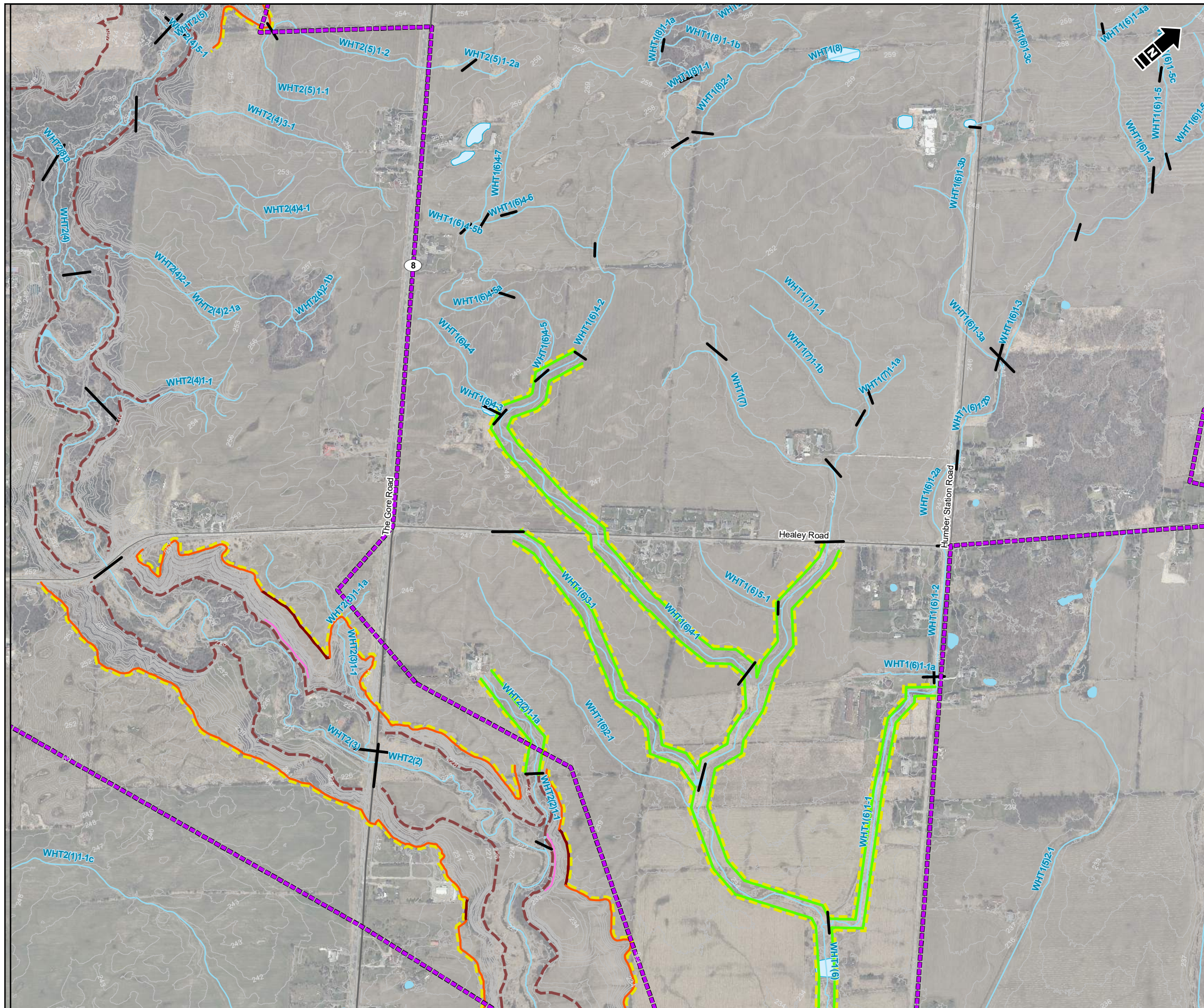
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Date: September 2020 Project: 28981 Submitter: A. Nicoll Reviewer: J. McDonald

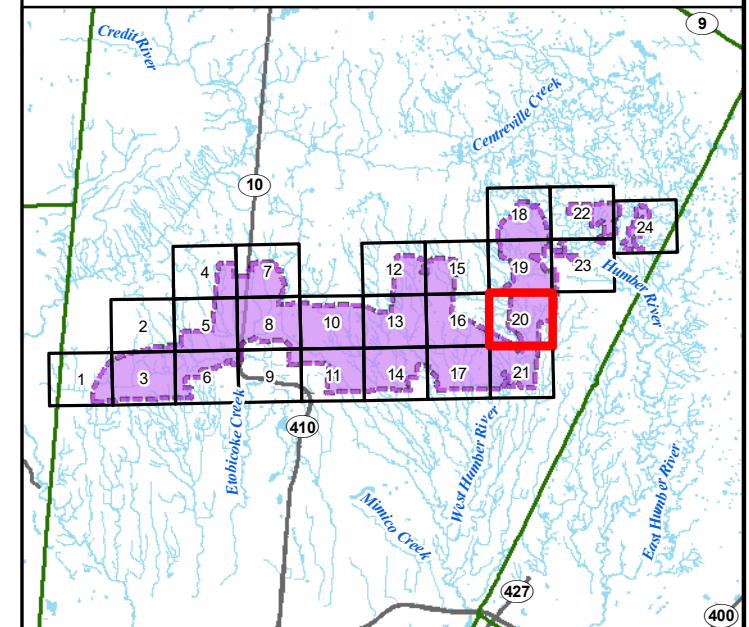
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Map
SM2-19

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- Focus Study Area
- Pond
- Water Body
- Watercourse
- Highway
- Road
- Reach Break
- Ground Elevation Contour (1m)
- Physical Crest of Slope (provided by TRCA)
- Toe Erosion Offset
- 6m Erosion Access Allowance
- Final Unconfined Meander Belt Width (20% FOS)
- Toe of Slope
- Stable Slope Allowance (Confined Reaches)



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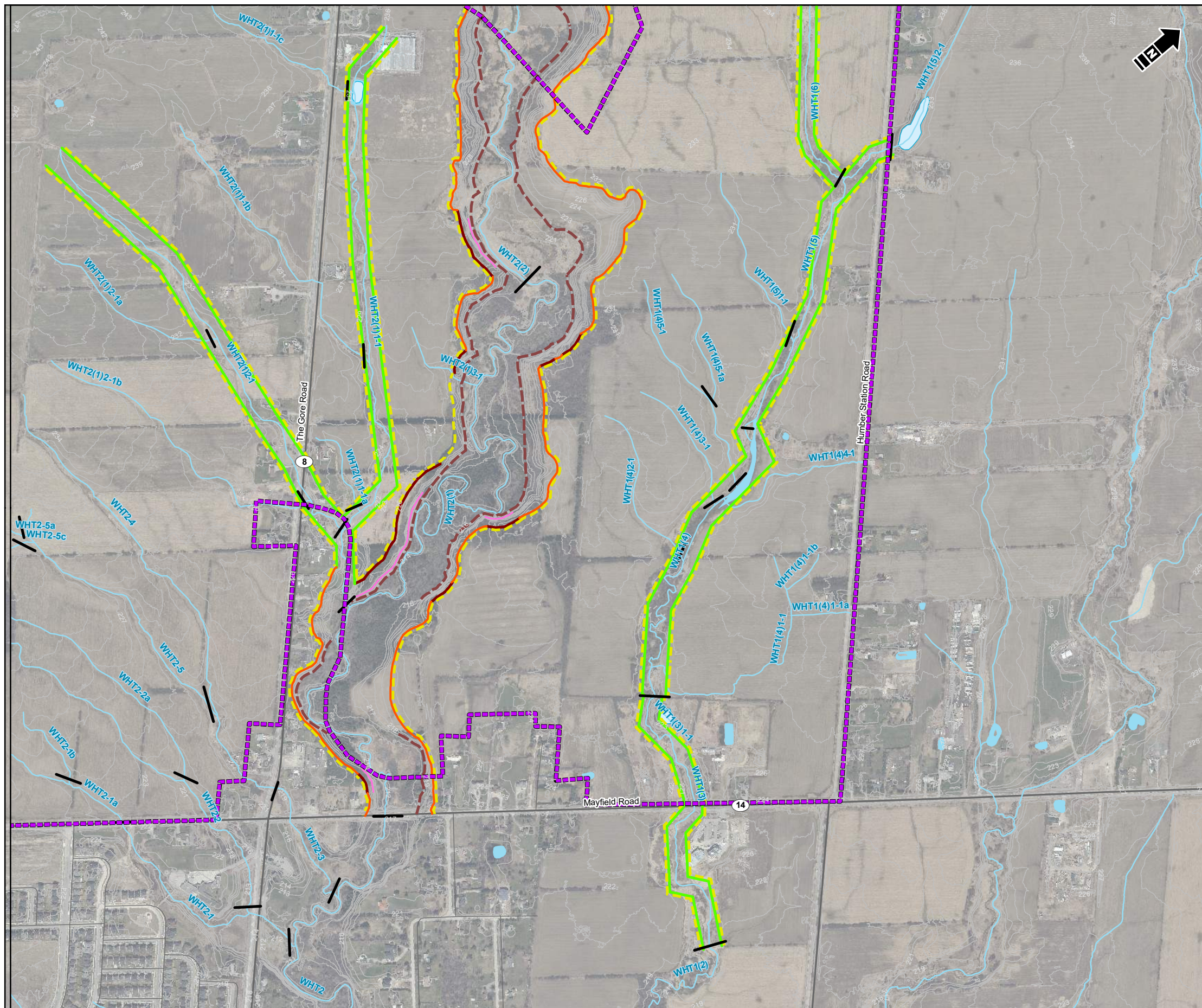
Region of Peel
Caledon SWS, Phase 2 Part A

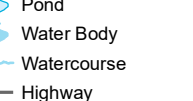














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Erosion Hazard Limits

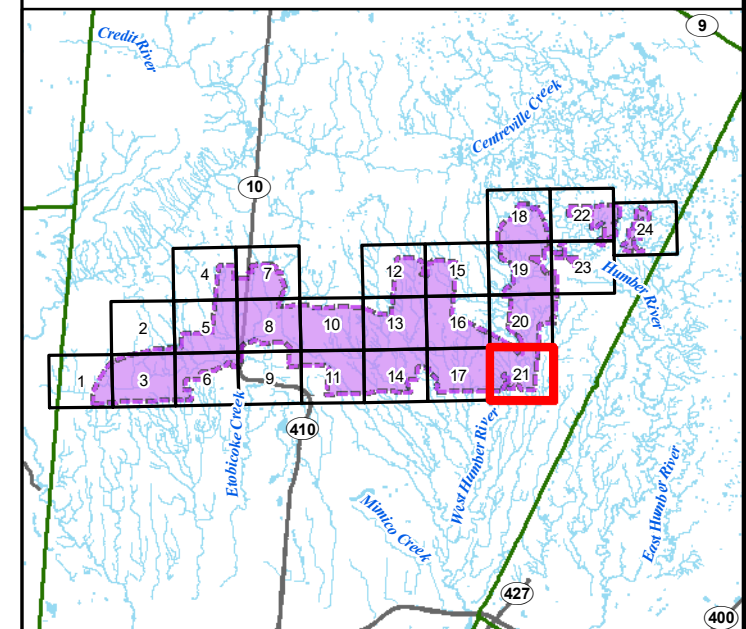
Date: September 2020	Project: 28981	Submitter: A. Nicoll	Reviewer: J. McDonald
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Map **SM2-20**



- 
- Legend:
-  Focus Study Area
 -  Pond
 -  Water Body
 -  Watercourse
 -  Highway
 -  Road
 -  Reach Break
 -  Ground Elevation Contour (1m)
 -  Physical Crest of Slope (provided by TRCA)
 -  Toe Erosion Offset
 -  6m Erosion Access Allowance
 -  Final Unconfined Meander Belt Width (20% FOS)
 -  Toe of Slope
 -  Stable Slope Allowance (Confined Reaches)



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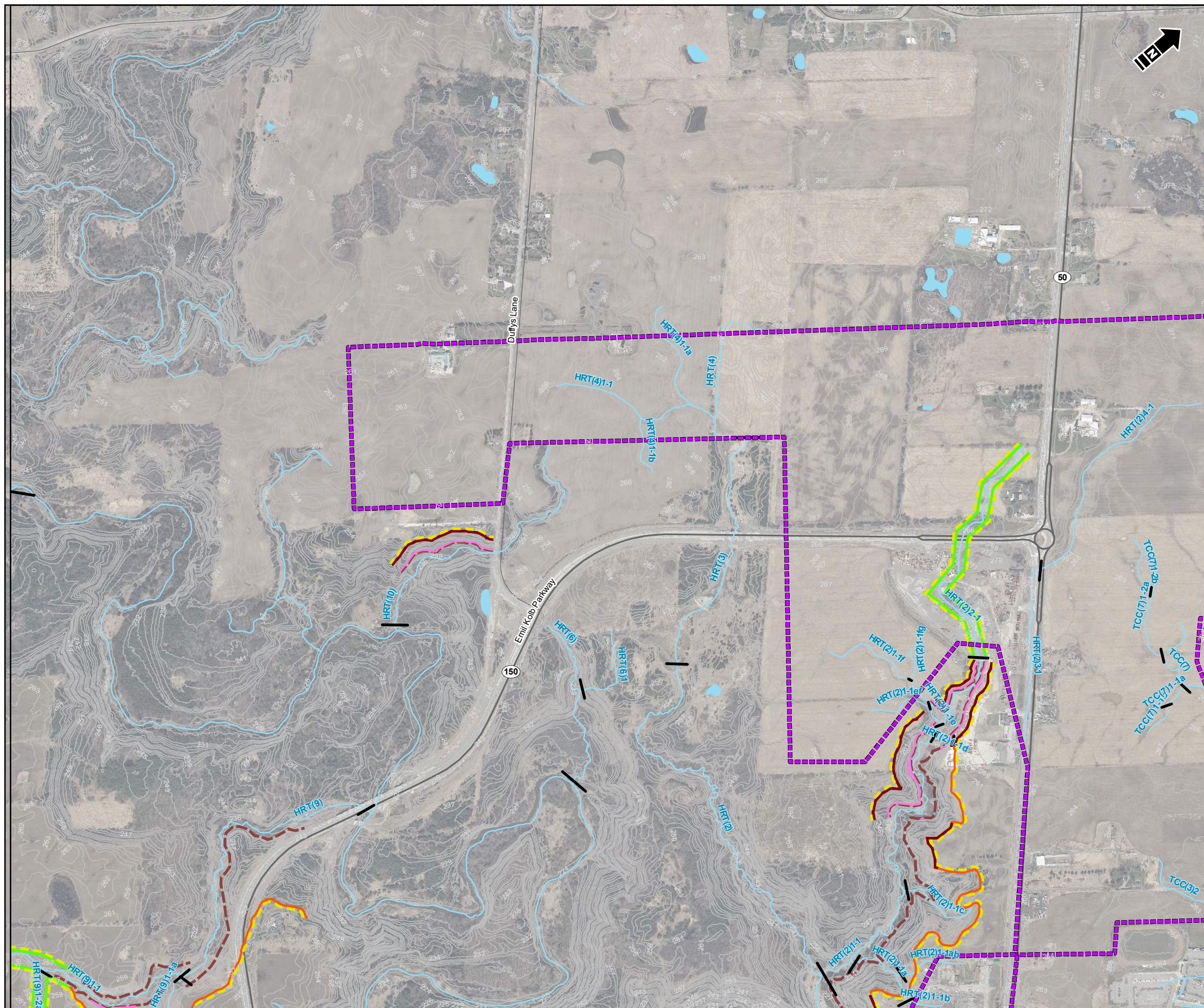
Region of Peel
Caledon SWS, Phase 2 Part A














Erosion Hazard Limits

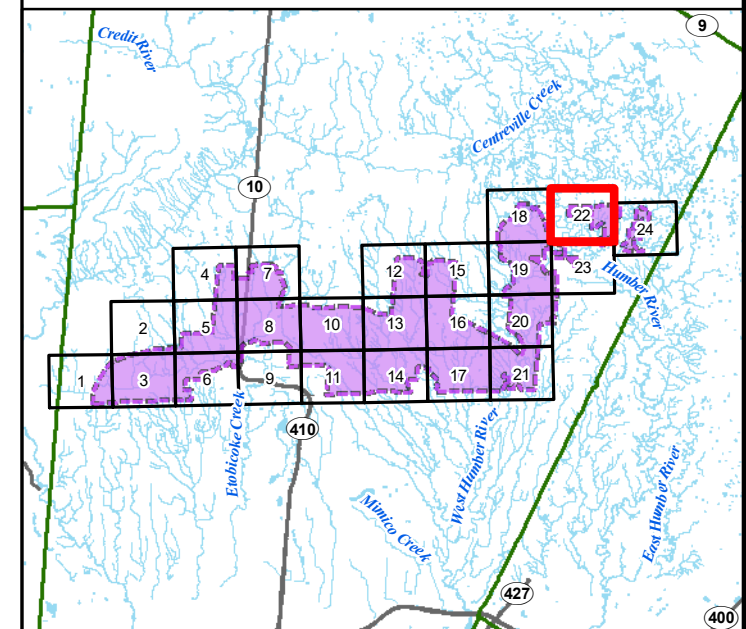
Date:	September 2020	Project:	28981	Submitter:	A. Nicoll	Reviewer:	J. McDonald
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SM2-21



-  Focus Study Area
-  Water Body
-  Watercourse
-  Highway
-  Road
-  Reach Break
-  Ground Elevation Contour (1m)
-  Physical Crest of Slope (provided by TRCA)
-  Toe Erosion Offset
-  6m Erosion Access Allowance
-  Final Unconfined Meander Belt Width (20% FOS)
-  Toe of Slope
-  Stable Slope Allowance (Confined Reaches)



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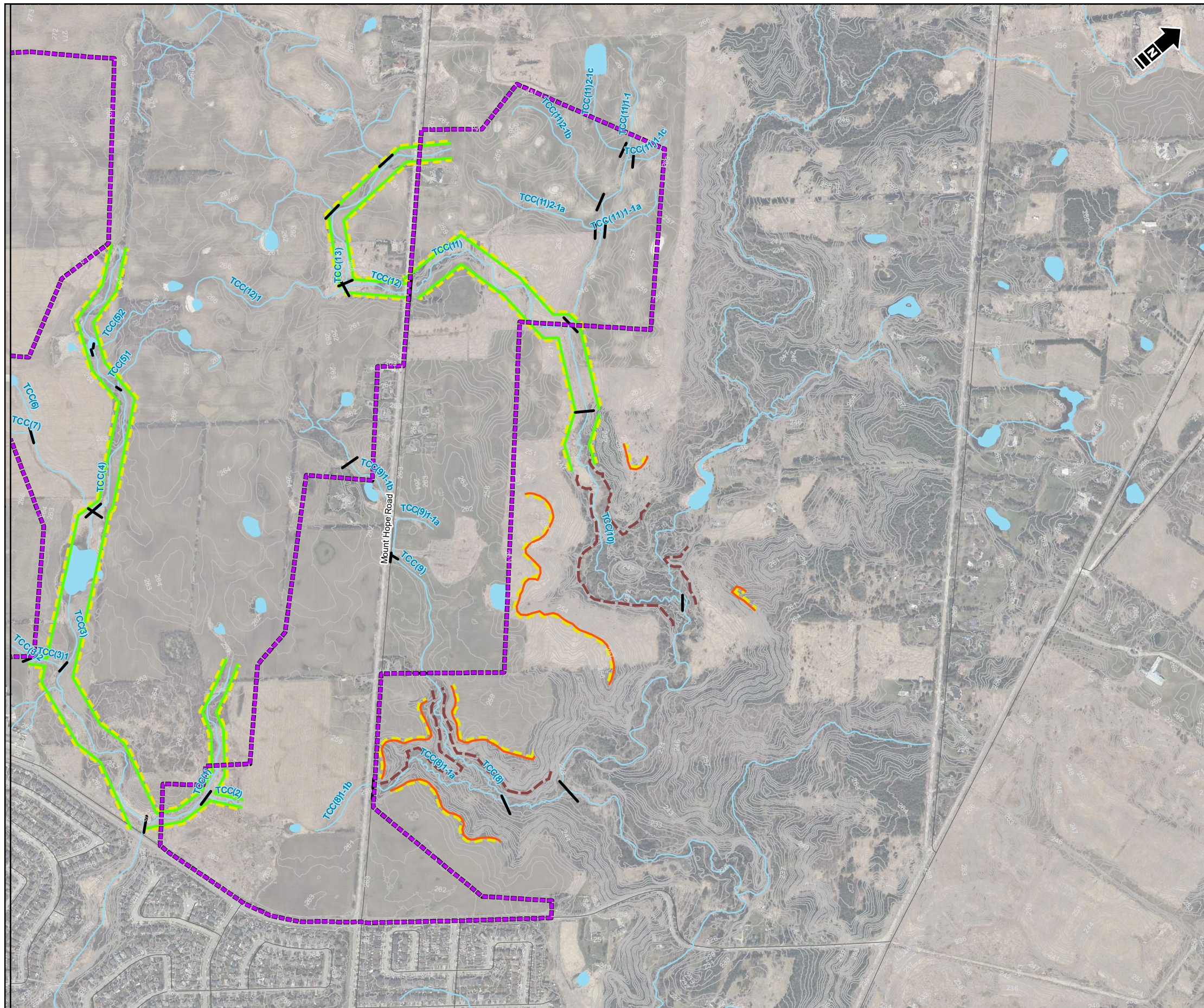
Erosion Hazard Limits

Date:	September 2020	Project:	28981	Submitter:	A. Nicoll	Reviewer:	J. McDonald
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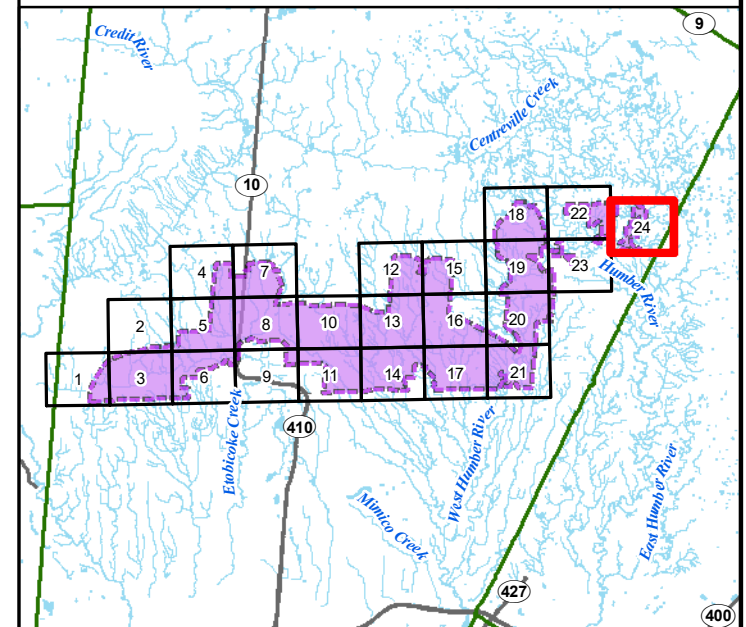
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SM2-22

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- Focus Study Area
- Water Body
- Watercourse
- Road
- Reach Break
- Ground Elevation Contour (1m)
- Physical Crest of Slope (provided by TRCA)
- 6m Erosion Access Allowance
- Final Unconfined Meander Belt Width (20% FOS)
- Toe of Slope



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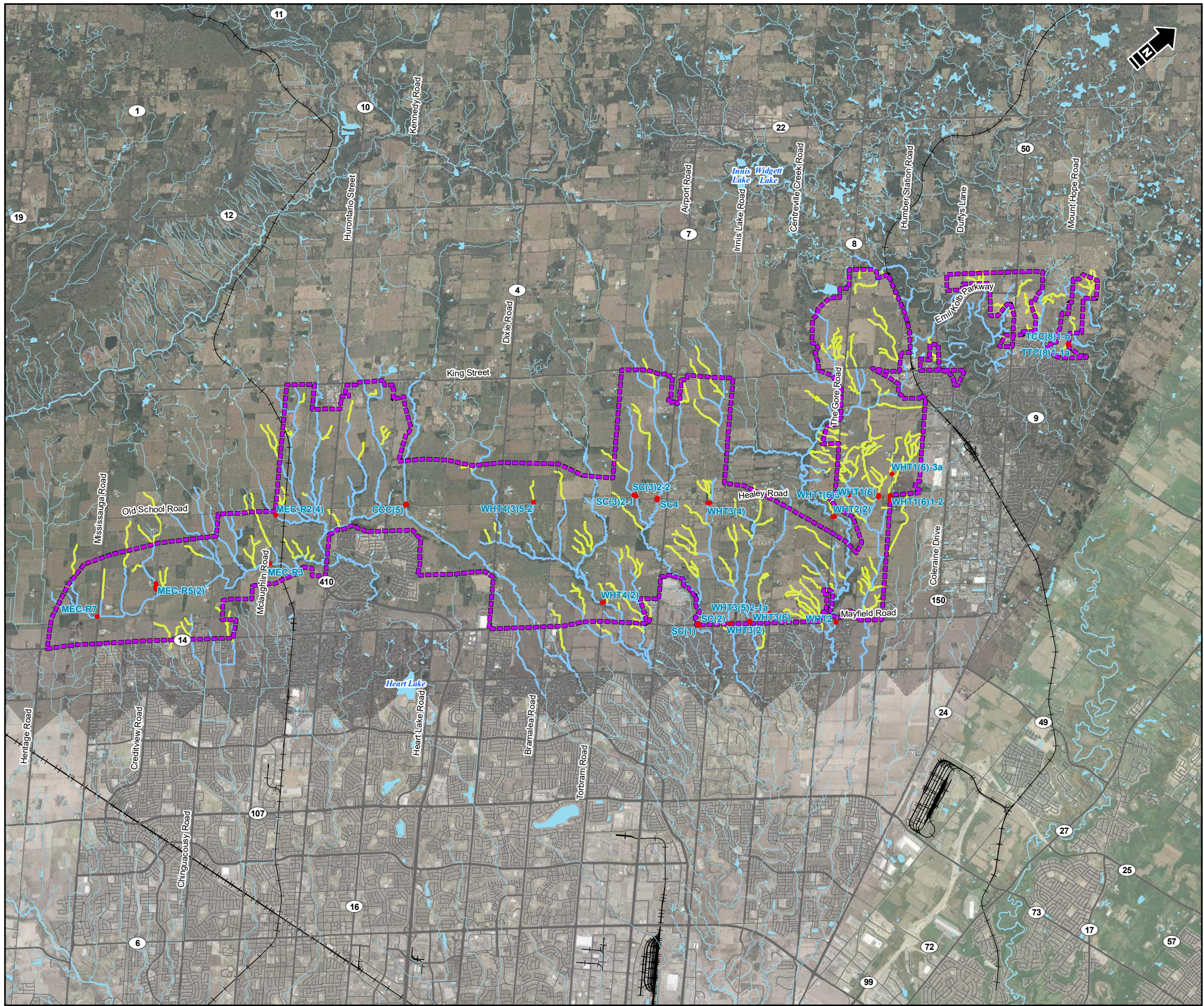
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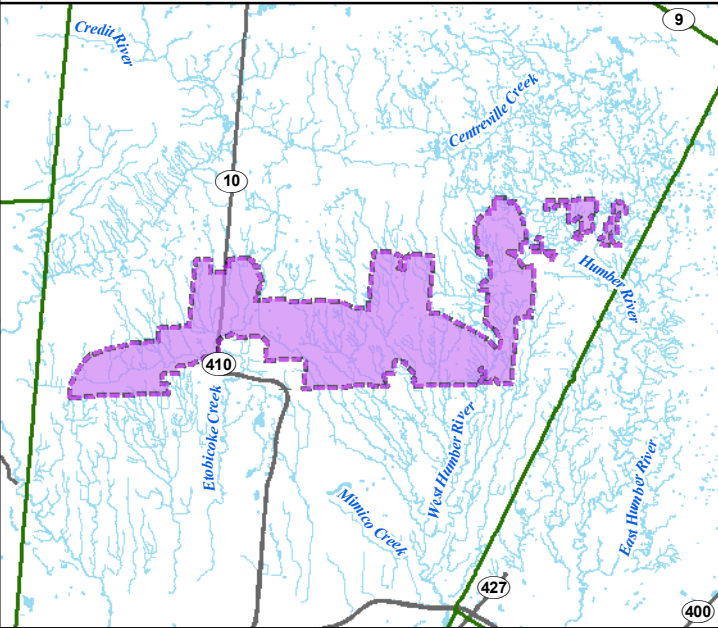
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Map SM2-24

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- Focus Study Area
- Water Body
- Watercourse
- Highway
- Road
- Railway
- Erosion Site
- Reach Type
 - HDF
 - Watercourse
 - Pond



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Erosion Sites

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