

Preliminary Natural Heritage Constraints Assessment

Joint Land Needs Assessment

City of Barrie, County of Simcoe, Township of
Oro-Medonte and Township of Springwater

Plenary Presentation
September 16th, 2025

Presentation Agenda

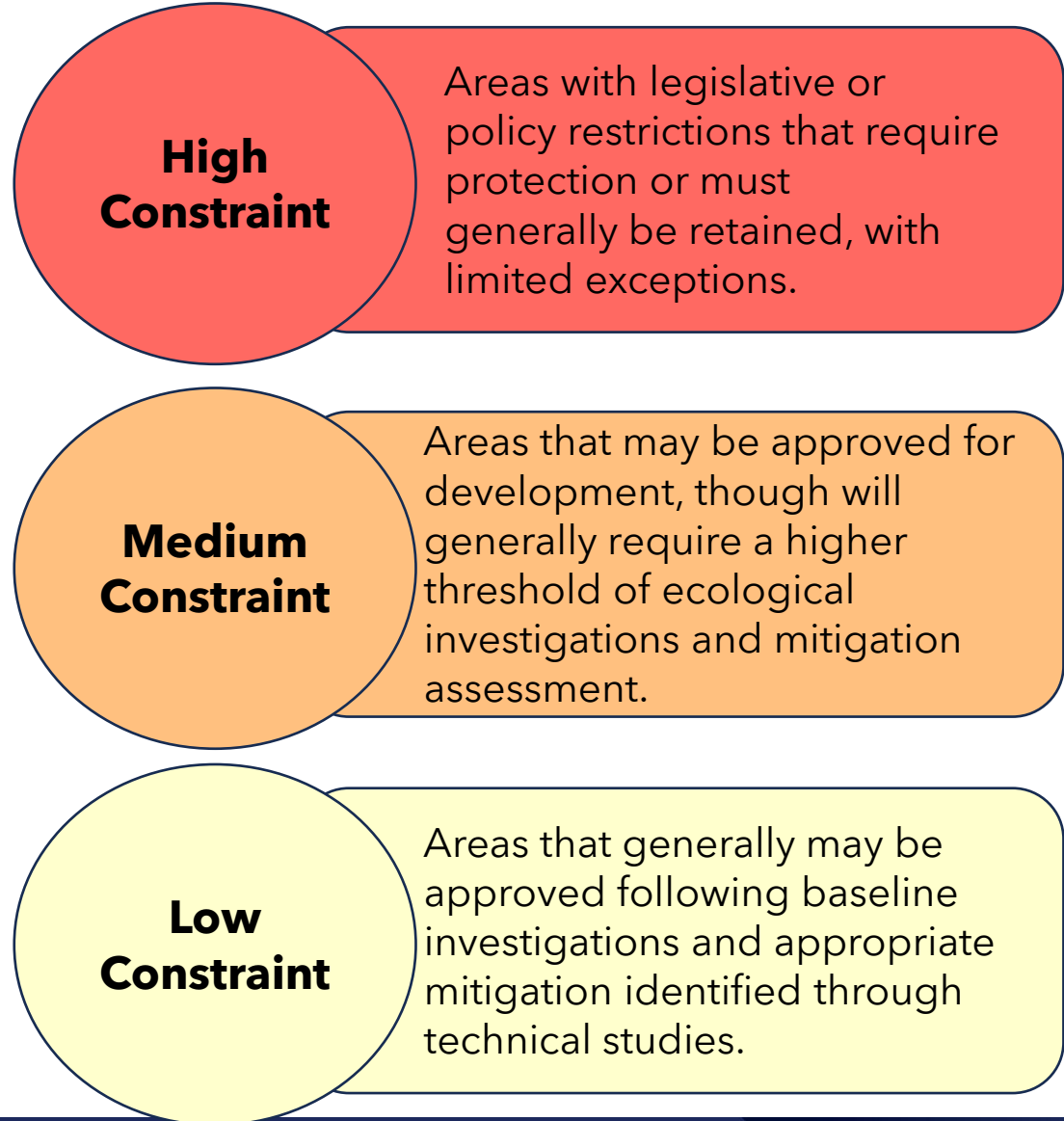
- › Defining Preliminary Natural Heritage Constraints
- › Study Limitations
- › Area Calculations of Preliminary Natural Heritage Constraints (non-developable lands)
- › Assessment of Preliminary Natural Heritage Constraints by Block

Defining Preliminary Natural Heritage Constraints

- › Provincial legislation and technical guidance
- › County and municipal official plans: policies and mapping
- › Mapping data collection:
 - › Ministry of Natural Resources (MNR) Geospatial Ontario (formerly Land Information Ontario (LIO) mapping)
 - › Nottawasaga Valley Conservation Authority Regulatory Mapping
 - › Lake Simcoe Region Conservation Authority Regulatory Mapping
- › The study area and 240 meters of adjacent lands were reviewed

Preliminary Natural Heritage Constraint Categories

- › Constraint categories are based on policies and regulations



Mapped Preliminary Natural Heritage Constraints

High Constraint	Medium Constraint	Low Constraint
Wetlands <ul style="list-style-type: none"> - Significant - Other - Unevaluated 	Preliminary ecological buffers	Conservation Authority - Regulated floodplain
Significant woodlands	Preliminary linkage areas	
Significant wildlife habitat (type dependent)		
Surface water features		
Conservation Authority - Regulated wetland setback (30m)		
Key Natural Heritage Features and Key Hydrologic Features and 30m VPZ in the Lake Simcoe Protection Area		

Study Limitations

- › Lack of information / unavailable mapping data for some natural heritage features and areas
 - › Examples: significant valleylands, significant wildlife habitat, habitat of endangered and threatened species
- › Natural heritage features that cannot be mapped and accounted for in the area calculations of “non-developable lands” will need to be identified through an environmental study.
- › This may result in additional areas being identified as “non-developable lands”.

Area Calculations of Preliminary Natural Heritage Constraints

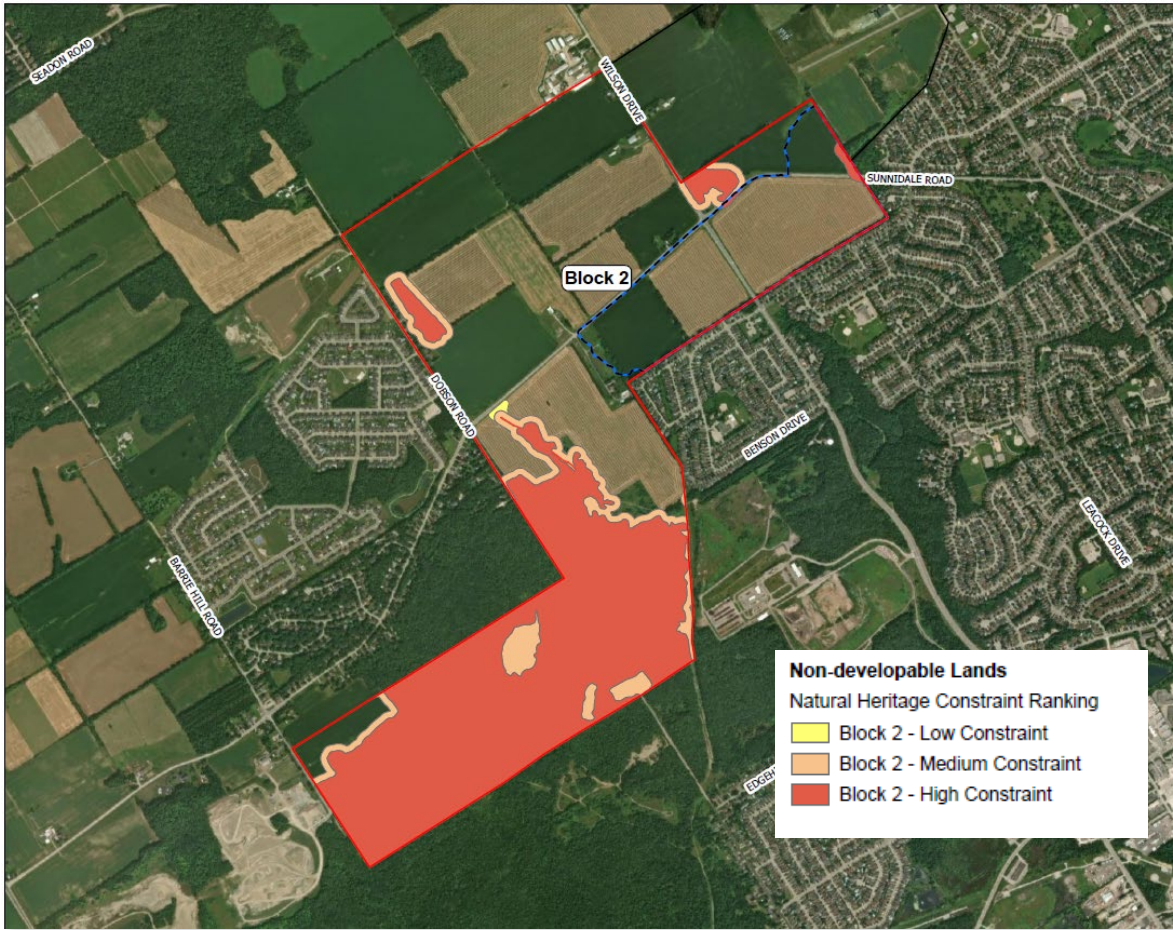
Block Number	Gross Block Area (ha)	High Constraint (ha)	Medium Constraint (ha)	Low Constraint (ha)	Non-Developable Lands* (ha)
2	381.82	128.33 33.6%	20.55 5.4%	0.37 0.1%	149.25 39.1%
3	192.43	4.14 2.2%	6.03 3.1%	2.68 1.4%	12.85 6.7%
5	183.32	81.27 44.3%	24.56 13.4%	0 0%	105.83 57.7%
4	1225.78	750.48 61.2%	56.67 4.6%	17.81 1.5%	824.96 67.3%
6	533.44	218.34 40.9%	27.72 5.2%	10.33 1.9%	256.39 48.1%

*Non-Developable Land Calculations are based on mapped Natural Heritage Constraints Only

Block 2 - Assessment of Preliminary Natural Heritage Constraints

Gross Block Area (ha)	High Constraint (ha)	Medium Constraint (ha)	Low Constraint (ha)	Non-Developable Lands* (ha)
381.82	128.33 33.6%	20.55 5.4%	0.37 0.1%	149.25 39.1%

*Non-Developable Land Calculations are based on mapped Natural Heritage Constraints Only



Block 3 - Assessment of Preliminary Natural Heritage Constraints

Gross Block Area (ha)	High Constraint (ha)	Medium Constraint (ha)	Low Constraint (ha)	Non-Developable Lands* (ha)
192.43	4.14 2.2%	6.03 3.1%	2.68 1.4%	12.85 6.7%

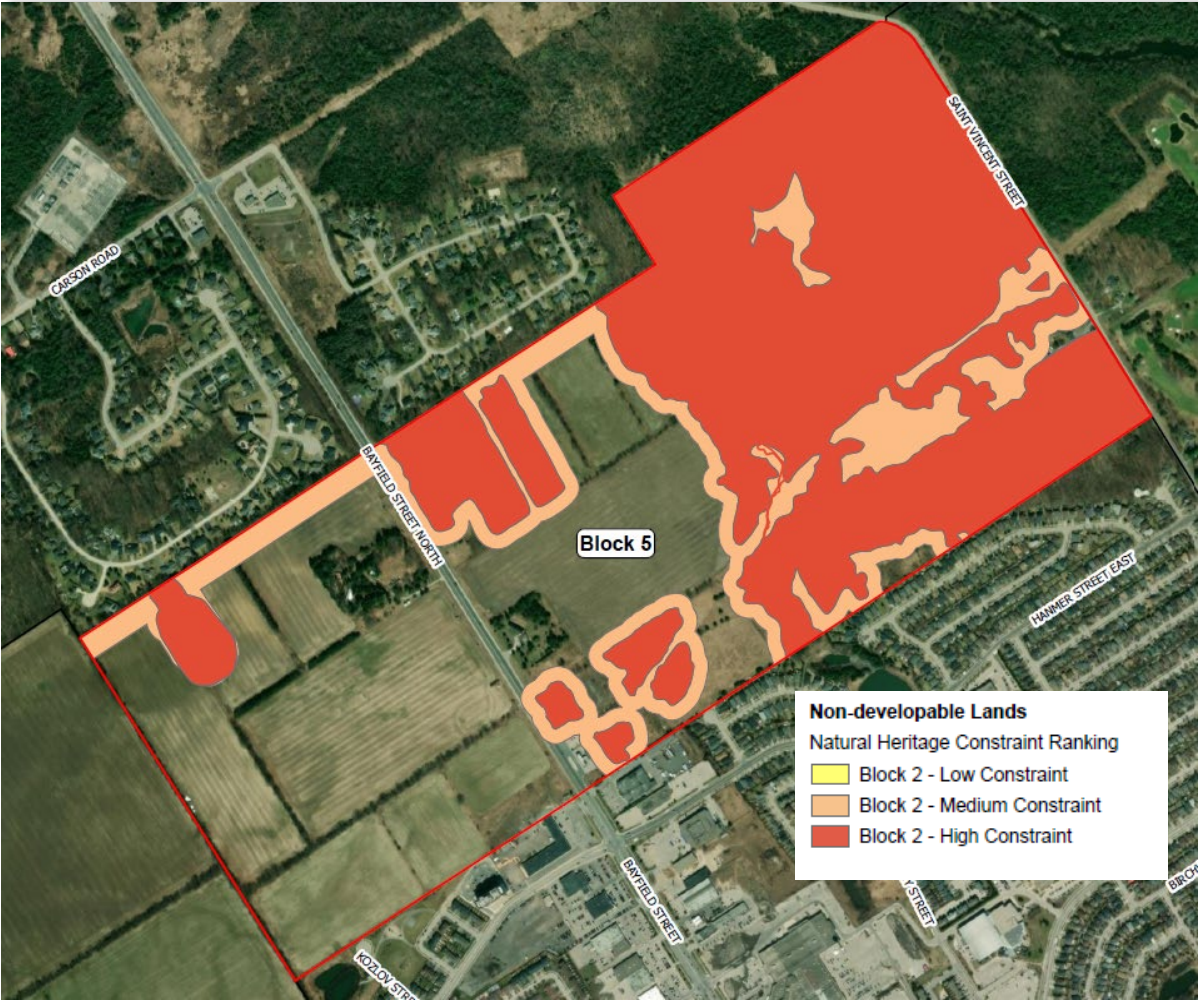
* Non-Developable Land Calculations are based on mapped Natural Heritage Constraints Only



Block 5 - Assessment of Preliminary Natural Heritage Constraints

Gross Block Area (ha)	High Constraint (ha)	Medium Constraint (ha)	Low Constraint (ha)	Non-Developable Lands* (ha)
183.32	81.27 44.3%	24.56 13.4%	0 0%	105.83 57.7%

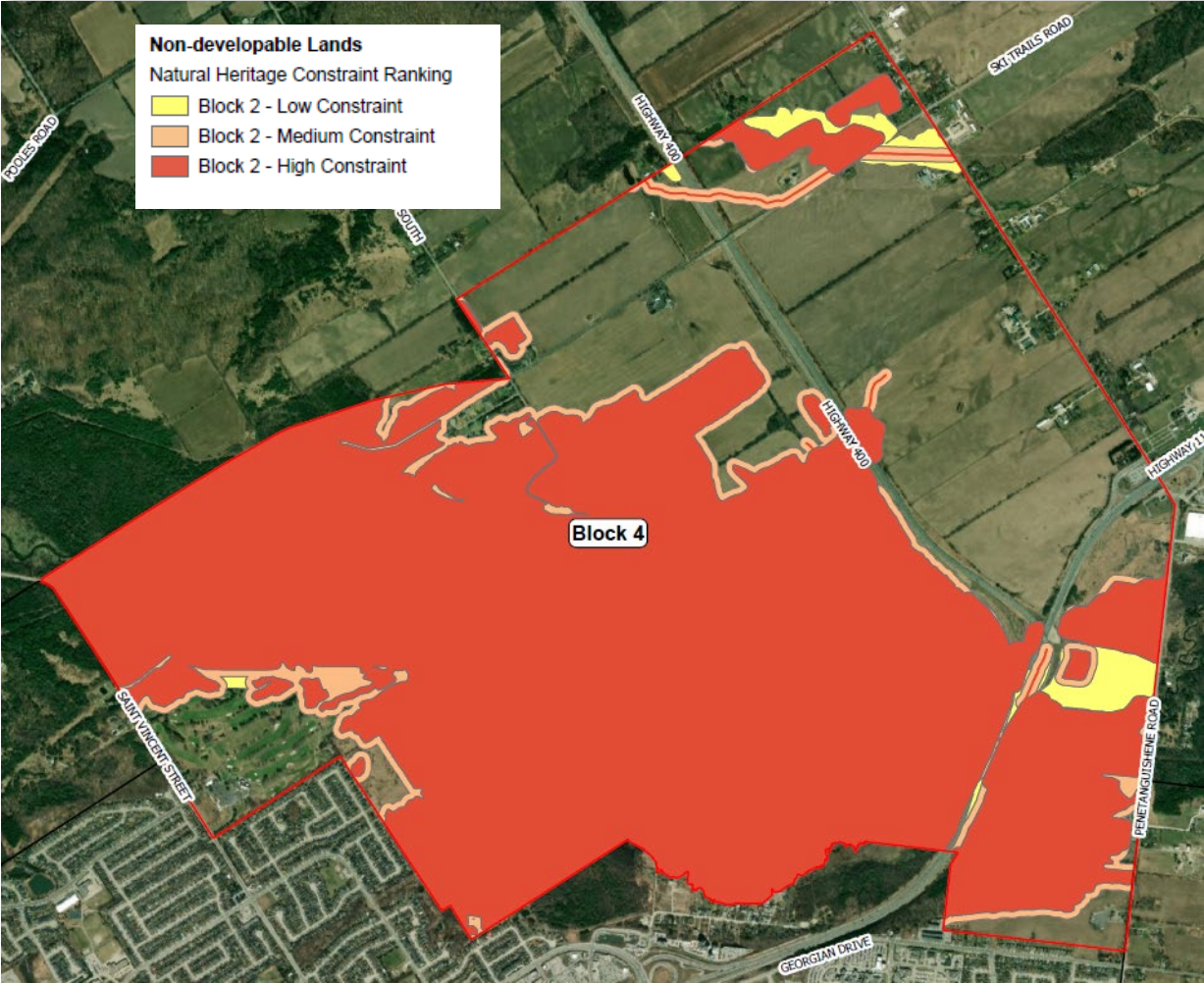
* Non-Developable Land Calculations are based on mapped Natural Heritage Constraints Only



Block 4 - Assessment of Preliminary Natural Heritage Constraints

Gross Block Area (ha)	High Constraint (ha)	Medium Constraint (ha)	Low Constraint (ha)	Non-Developable Lands* (ha)
1225.78	750.48 61.2%	56.67 4.6%	17.81 1.5%	824.96 67.3%

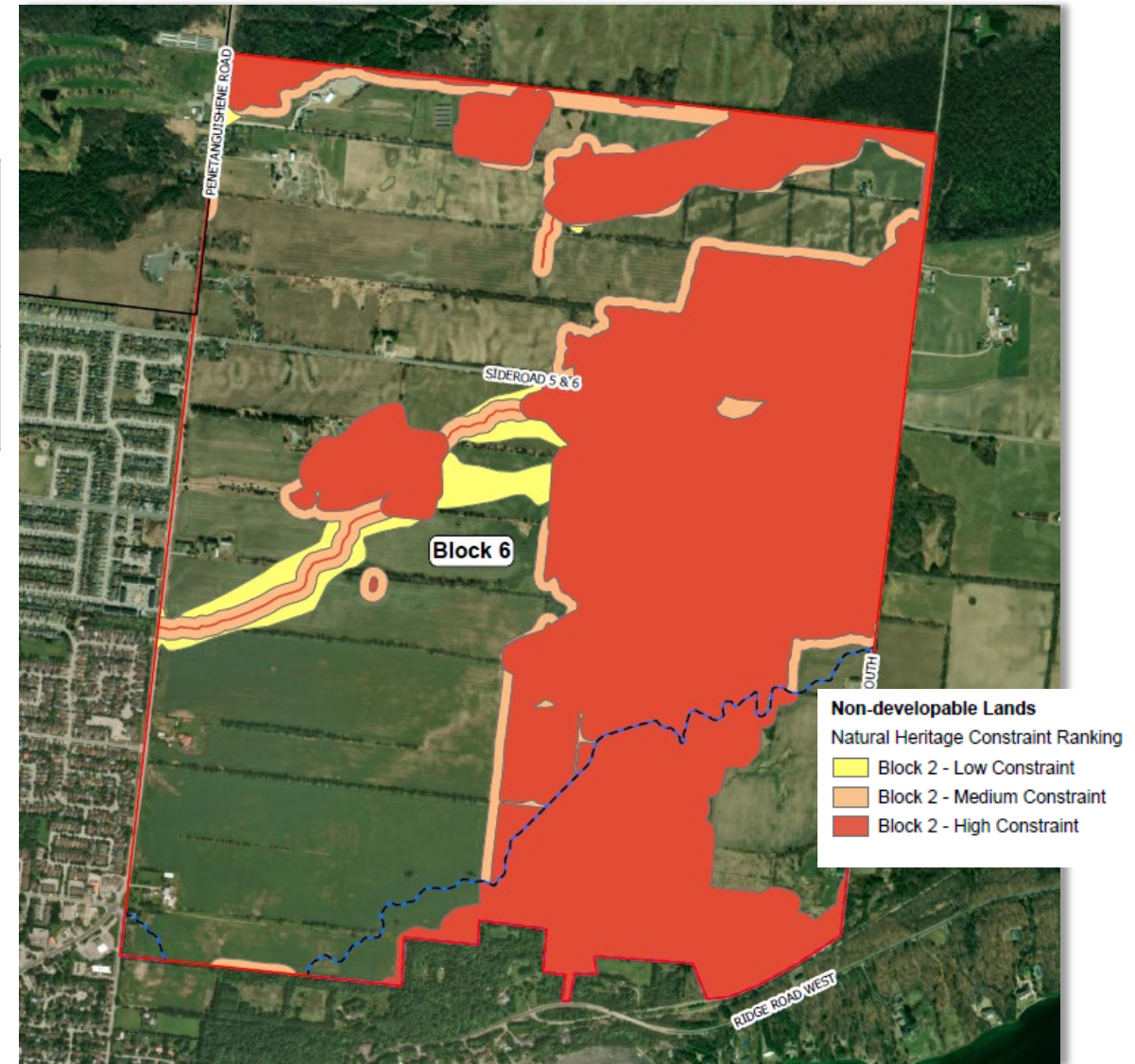
* Non-Developable Land Calculations are based on mapped Natural Heritage Constraints Only



Block 6 - Assessment of Preliminary Natural Heritage Constraints

Gross Block Area (ha)	High Constraint (ha)	Medium Constraint (ha)	Low Constraint (ha)	Non-Developable Lands* (ha)
533.44	218.34 40.9%	27.72 5.2%	10.33 1.9%	256.39 48.1%

* Non-Developable Land Calculations are based on mapped Natural Heritage Constraints Only



Summary of Area Calculations of Preliminary Natural Heritage Constraints

Block Number	Gross Block Area (ha)	High Constraint (ha)	Medium Constraint (ha)	Low Constraint (ha)	Non-Developable Lands* (ha)	Developable Lands* (ha)
2	381.82	128.33 33.6%	20.55 5.4%	0.37 0.1%	149.25 39.1%	238.57 60.9%
3	192.43	4.14 2.2%	6.03 3.1%	2.68 1.4%	12.85 6.7%	178.58 93.3%
5	183.32	81.27 44.3%	24.56 13.4%	0 0%	105.83 57.7%	77.49 42.3%
4	1225.78	750.48 61.2%	56.67 4.6%	17.81 1.5%	824.96 67.3%	400.82 32.7%
6	533.44	218.34 40.9%	27.72 5.2%	10.33 1.9%	256.39 48.1%	277.05 51.9%

*Non-Developable and Developable Land Calculations are based on mapped Natural Heritage Constraints Only

Thank you

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