






APPENDIX A. FIGURES

FIGURE 1

Project Location

Little River Harbour, NS

-  Yarmouth County
-  Municipality of the District of Argyle
-  Project Area



Coordinate System: NAD 1983 CSRS UTM Zone 19N
 Projection: Transverse Mercator
 Datum: North American 1983 CSRS
 Units: Meter



1:300,000 Scale when printed @ 11" x 17"

Drawn By: MD Project Number: 21-576
 Reviewed By: JB Date: 2022-12-08



McCallum Environmental Ltd.

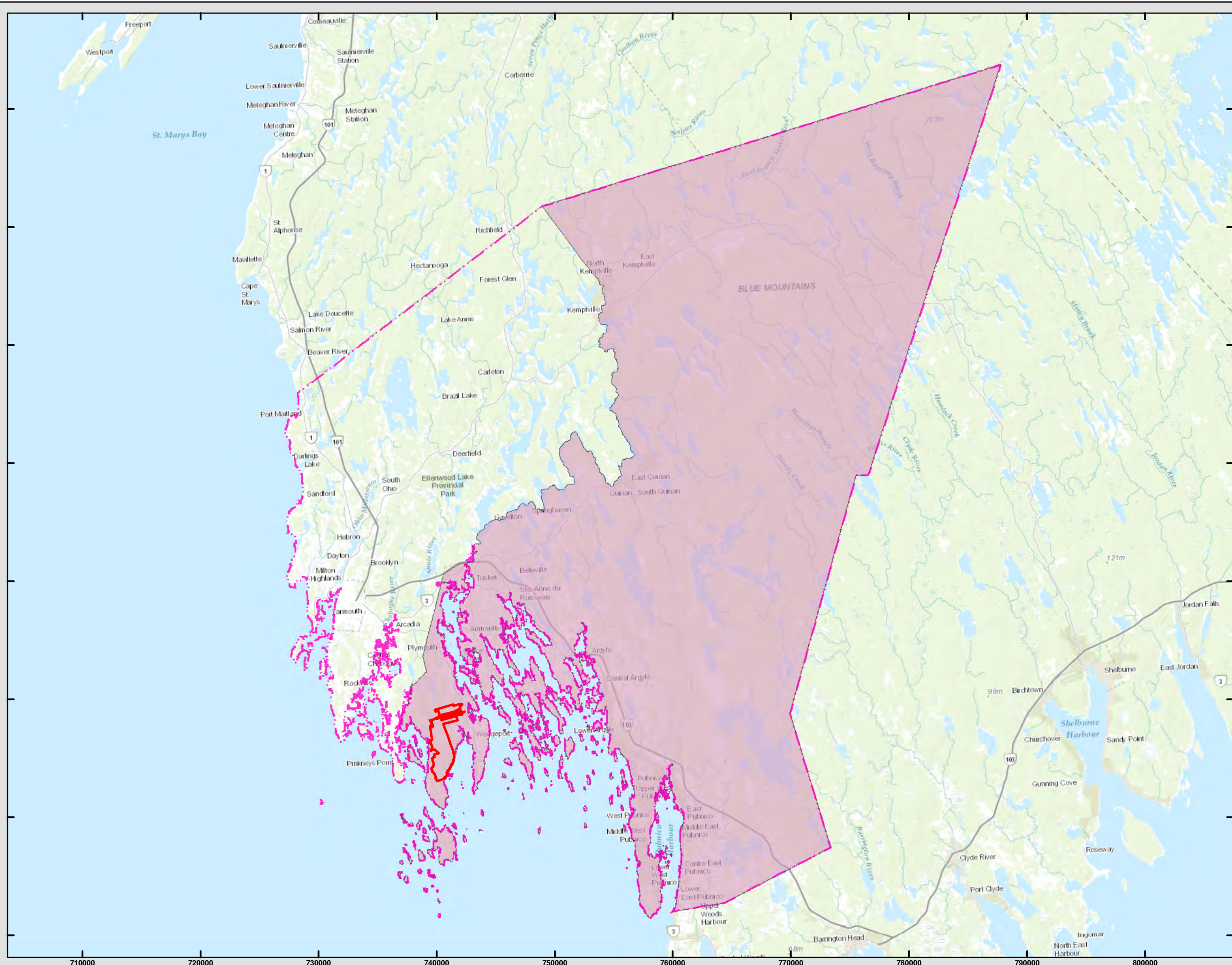
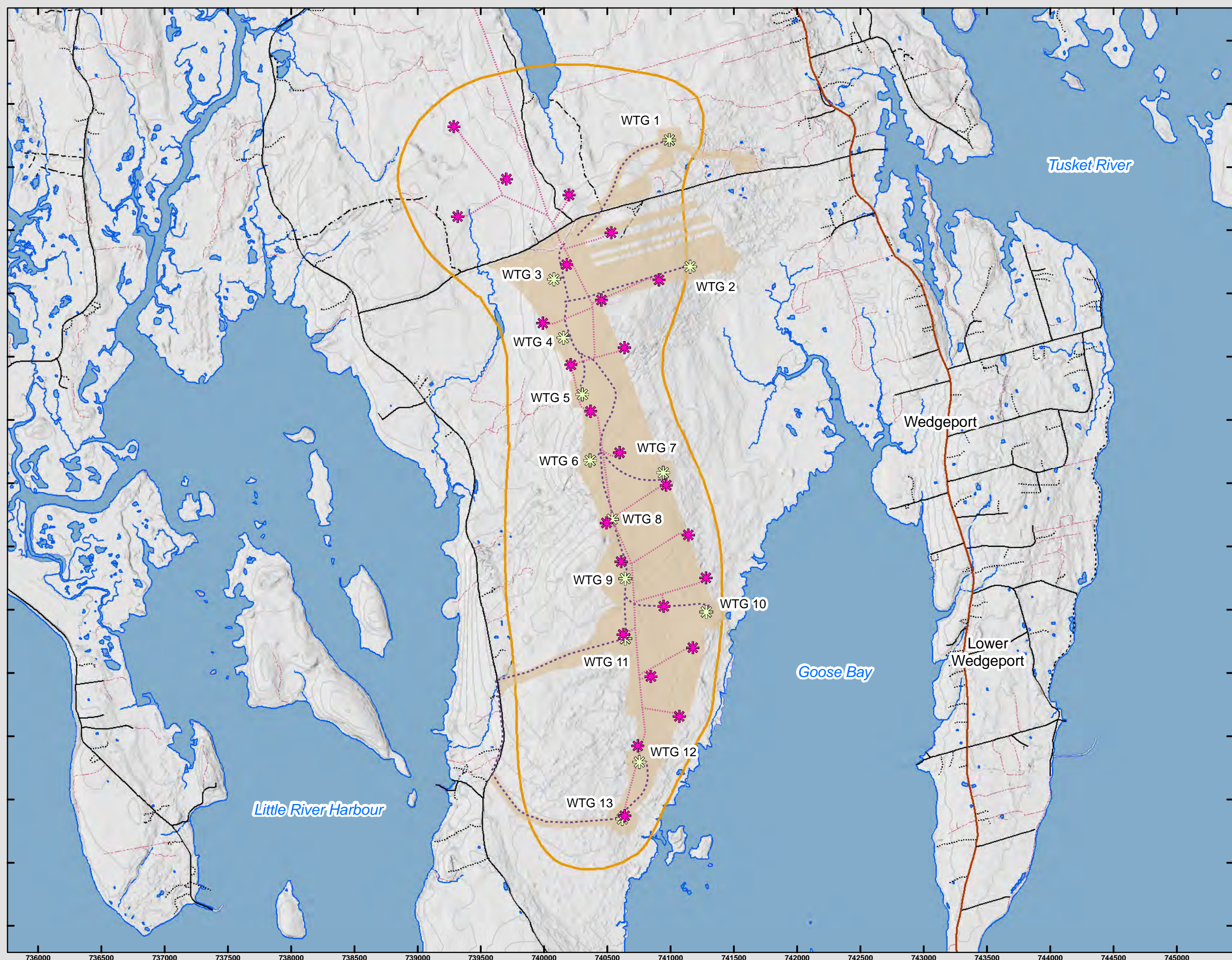

















FIGURE 2

Project Footprint
 Overlaid on 2012 Project
 Little River Harbour, NS



-  2022 Project Turbine Location
-  2022 Collection System
-  2022 Study Area
-  2012 Project Proposed Turbine Location
-  2012 Project Proposed Transmission Line
-  2012 Project Study Area
-  NSTDB Contour line (5 m)
-  Highway
-  Bridge
-  Local Road
-  Resource Access
-  Track
-  Trail
-  Driveway
-  NSTDB Mapped Watercourse



Coordinate System: NAD 1983 CSRS UTM Zone 19N
 Projection: Transverse Mercator
 Datum: North American 1983 CSRS
 Units: Meter



0 250 500 1,000 m

1:28,000 Scale when printed @ 11" x 17"

Drawn By: MD Project Number: 21-576
 Reviewed By: JB Date: 2022-12-02














McCallum Environmental Ltd.

FIGURE 3

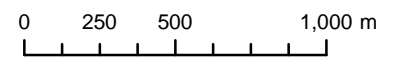
Spatial Boundaries

Little River Harbour, NS

-  Black Pond Community Wind Project
-  Little River Harbour Community Wind Project
-  Wedgeport Wind Power Project
-  NSTDB Contour line (5 m)
-  NSTDB Mapped Watercourse
-  PID 90024985 Excluded from Project Area
-  Tusket Islands Wilderness Area
-  Project Footprint
-  Study Area
-  Fish Study Area
-  Project Area



Coordinate System: NAD 1983 CSRS UTM Zone 19N
 Projection: Transverse Mercator
 Datum: North American 1983 CSRS
 Units: Meter



1:25,000 Scale when printed @ 11" x 17"

Drawn By: MD Project Number: 21-576
 Reviewed By: JB Date: 2023-01-13



McCallum Environmental Ltd.

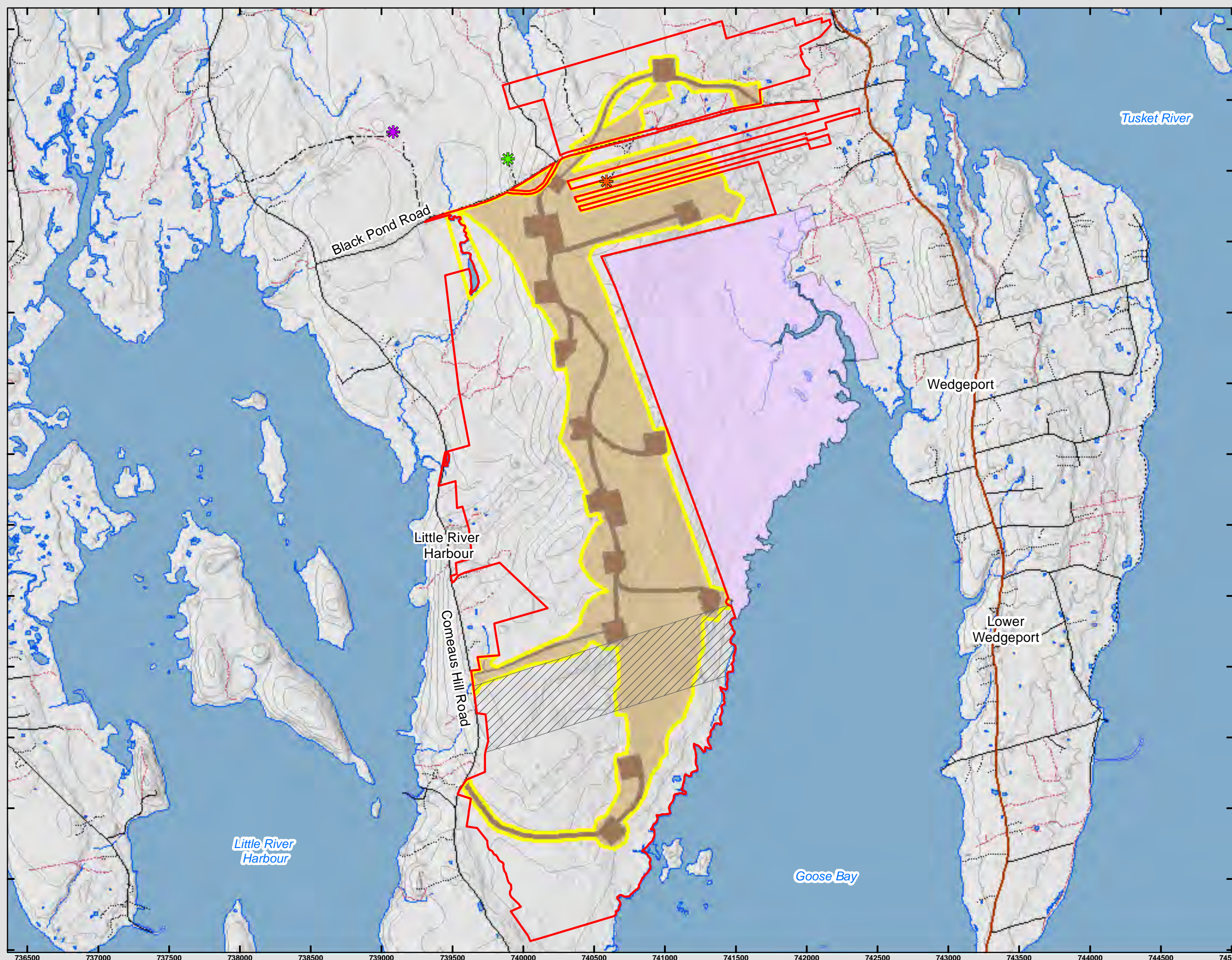














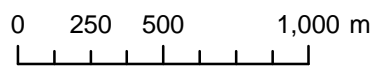
FIGURE 4

Property Ownership
 Little River Harbour, NS

-  Highway
-  Local Road
-  Resource Access
-  Track
-  Trail
-  Driveway
-  NSTDB Contour line (5 m)
-  NSTDB Mapped Watercourse
-  PID 90024985 Excluded from Project Area
-  Crown land
-  Private land
-  Project Area



Coordinate System: NAD 1983 CSRS UTM Zone 19N
 Projection: Transverse Mercator
 Datum: North American 1983 CSRS
 Units: Meter



1:26,000 Scale when printed @ 11" x 17"

Drawn By: MD Project Number: 21-576
 Reviewed By: JB Date: 2023-01-13



McCallum Environmental Ltd.

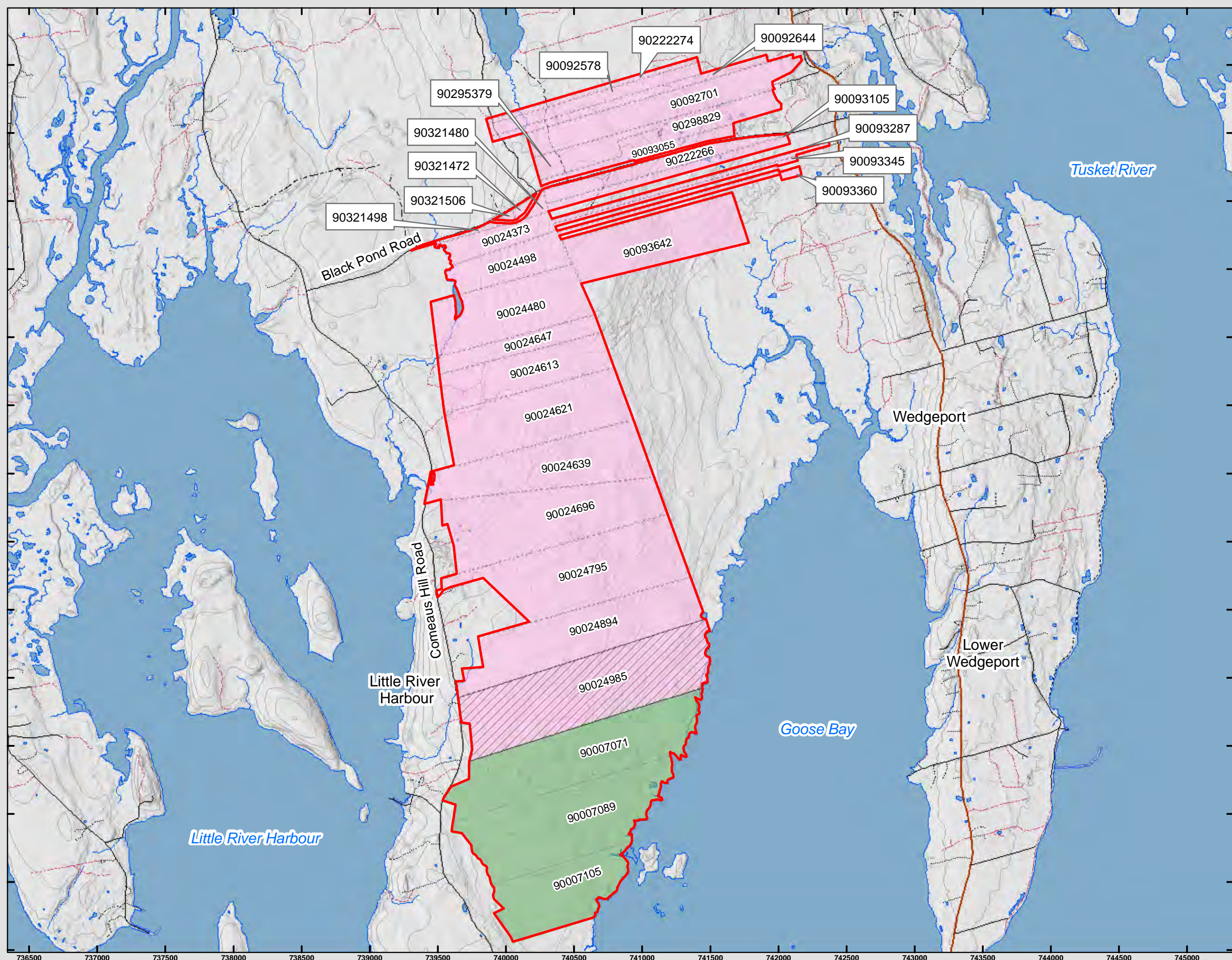


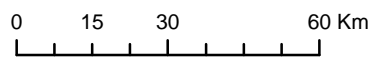
FIGURE 5A

First Nations Communities
Little River Harbour, NS

-  Acadia
-  Annapolis Valley
-  Bear River
-  Eskasoni
-  Glooscap
-  Membertou
-  Millbrook
-  Paqtnkek
-  Pictou Landing
-  Potlotek
-  Sipekne'katik
-  Wagmatcook
-  We'koqma'q
-  Project Location



Coordinate System: NAD 1983 CSRS UTM Zone 19N
 Projection: Transverse Mercator
 Datum: North American 1983 CSRS
 Units: Meter



1:1,500,000 Scale when printed @ 11" x 17"

Drawn By: MD Project Number: 21-576
 Reviewed By: JB Date: 2022-12-08



McCallum Environmental Ltd.

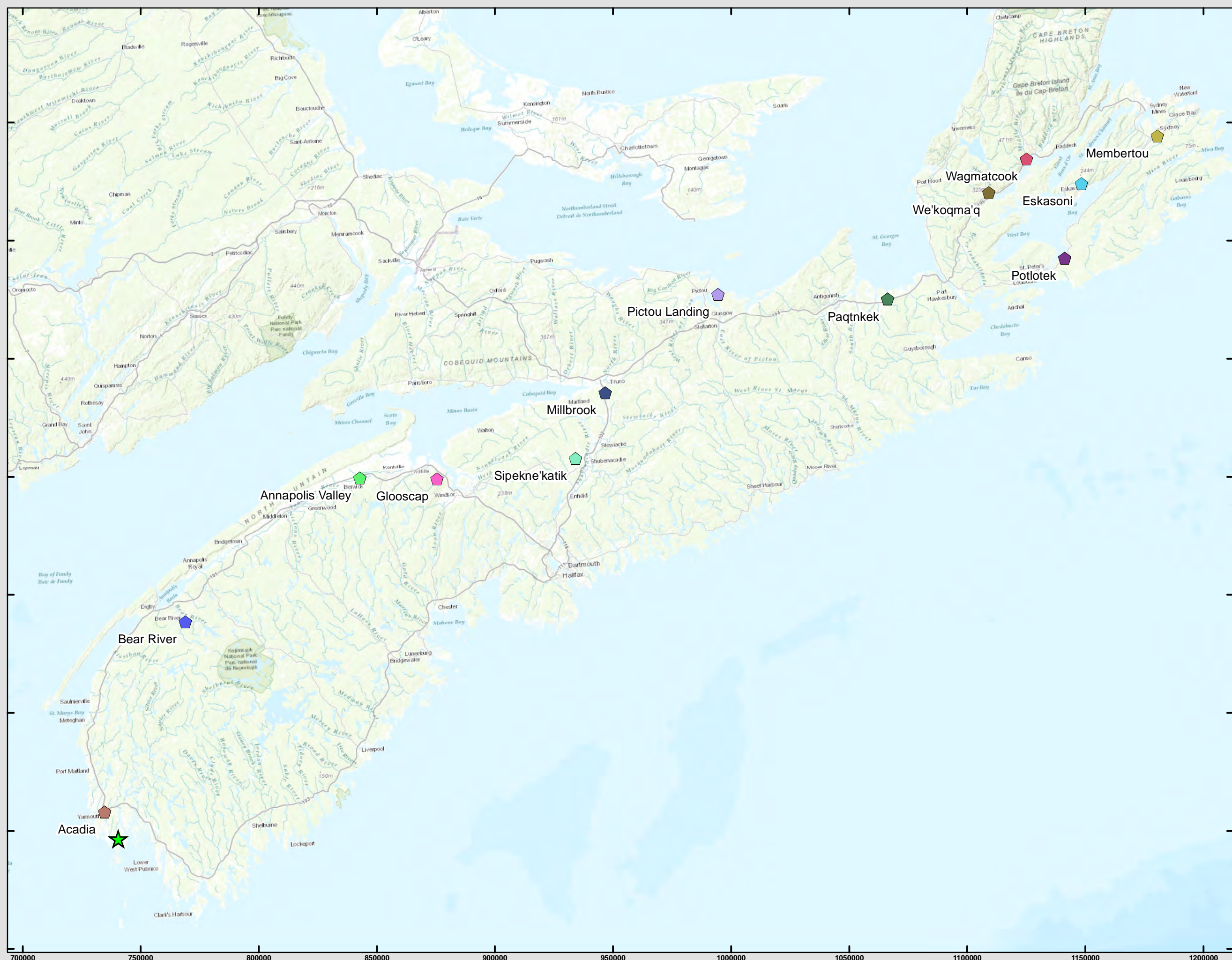





FIGURE 5B

First Nations Communities

Little River Harbour, NS

-  PID 90024985 Excluded from Project Area
-  Yarmouth 33 IR
-  Project Area



Coordinate System: NAD 1983 CSRS UTM Zone 19N
 Projection: Transverse Mercator
 Datum: North American 1983 CSRS
 Units: Meter



1:80,000 Scale when printed @ 11" x 17"

Drawn By: MD Project Number: 21-576
 Reviewed By: JB Date: 2023-01-13

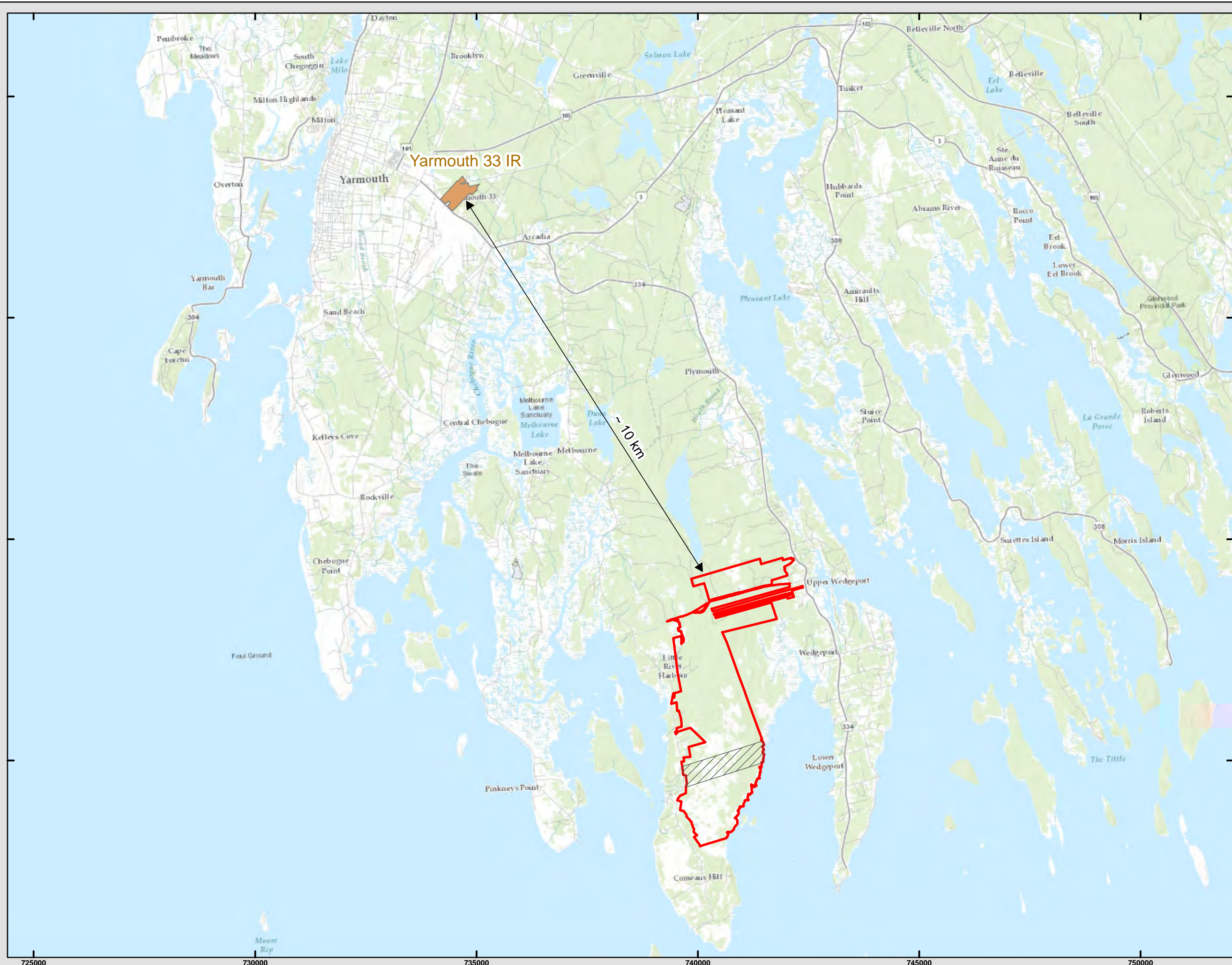












FIGURE 6

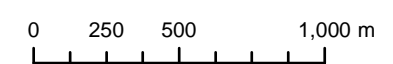
Project Layout

Little River Harbour, NS

- | | |
|--|--|
| Project Infrastructure | — Highway |
|  Wind Turbine Generator (WTG) | — Local Road |
|  Collector Line | - - - Resource Access |
|  Existing Road | - - - Track |
|  New Access Roads | - - - Trail |
|  Substation | Driveway |
|  Construction Areas | — NSTDB Contour line (5 m) |
|  Laydown Area | — NSTDB Mapped Watercourse |
|  Project Footprint | — PID 90024985 |
| |  Excluded from Project Area |
| |  Project Area |



Coordinate System: NAD 1983 CSRS UTM Zone 20N
 Projection: Transverse Mercator
 Datum: North American 1983 CSRS
 Units: Meter



1:26,000 Scale when printed @ 11" x 17"

Drawn By: MD Project Number: 21-576
 Reviewed By: JB Date: 2023-02-22



McCallum Environmental Ltd.

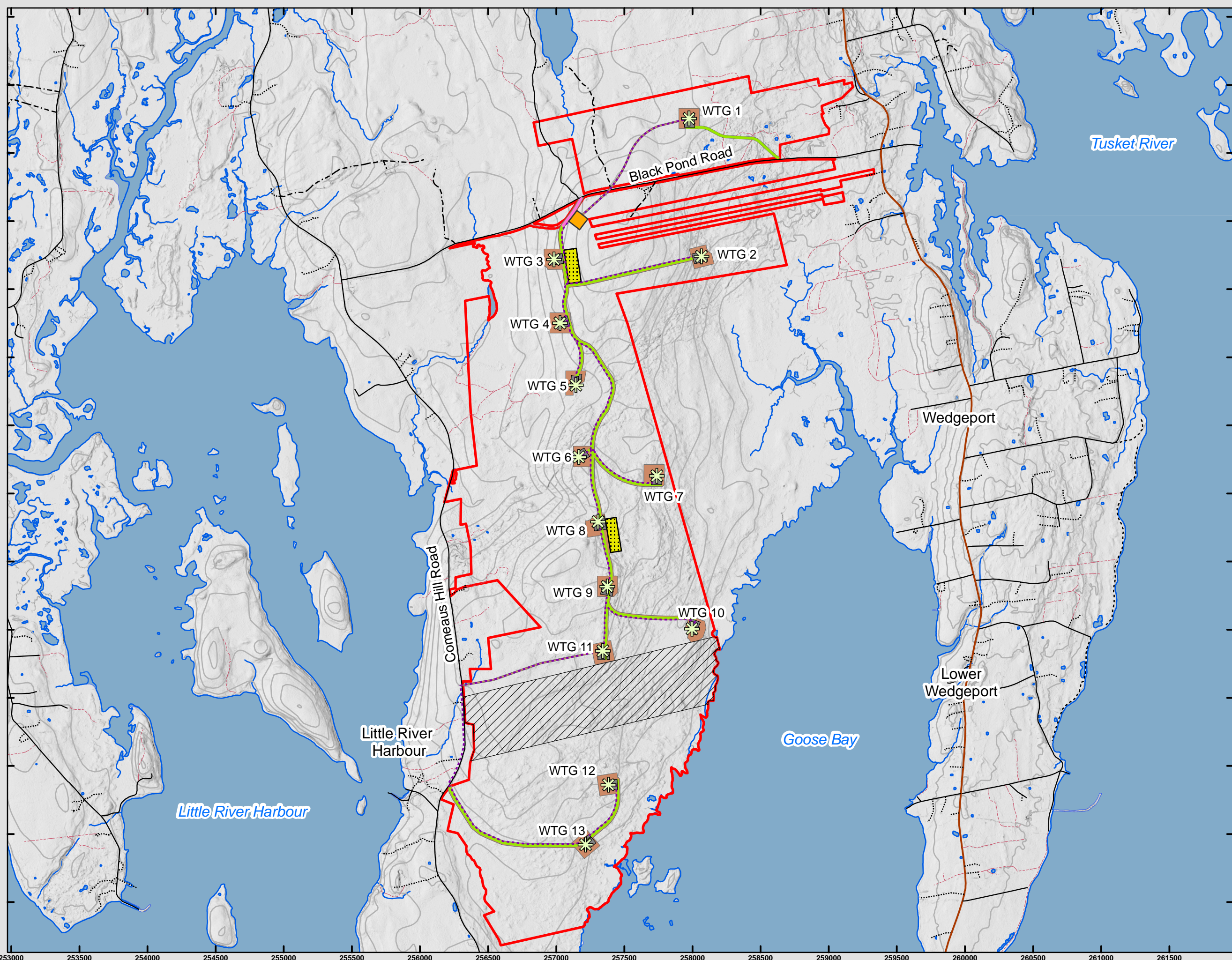









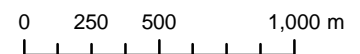
FIGURE 7

Bat Acoustic Monitor Locations
 Little River Harbour, NS

-  Acoustic Bat Detector
-  NSTDB Contour line (5 m)
-  NSTDB Mapped Watercourse
-  NSECC Mapped Wetlands
-  NSTDB Open Water
-  PID 90024985 Excluded from Project Area
-  Project Area



Coordinate System: NAD 1983 CSRS UTM Zone 19N
 Projection: Transverse Mercator
 Datum: North American 1983 CSRS
 Units: Meter



1:28,000
 Scale when printed @ 11" x 17"
 Drawn By: MD
 Reviewed By: RG
 Project Number: 21-576
 Date: 2023-01-13

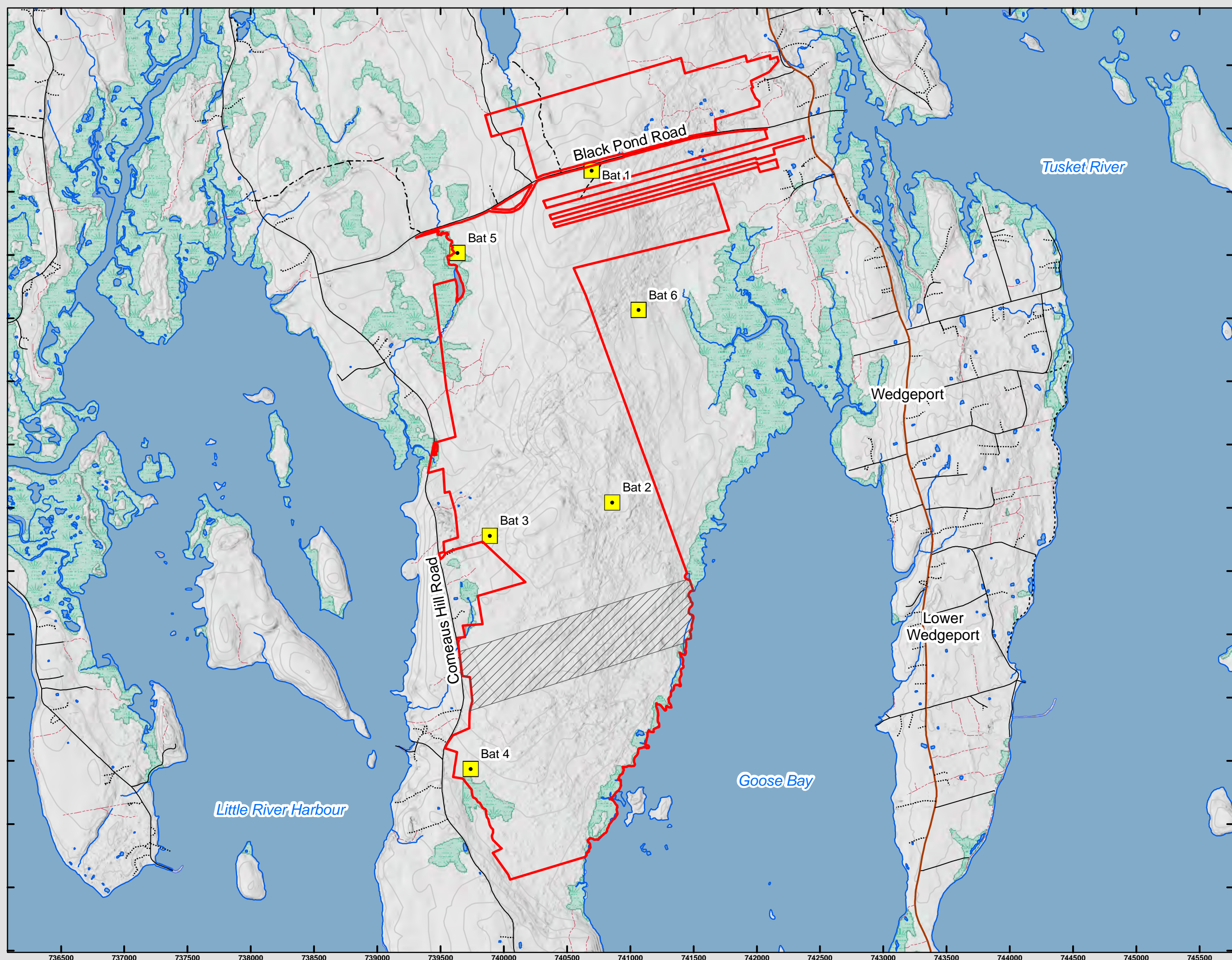


FIGURE 8

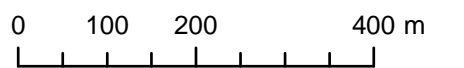
Fishing Results

Little River Harbour, NS

-  Trap Location
-  Electrofishing Reach
-  NSTDB Mapped Watercourse
-  NSTDB Contour line (5 m)
-  NSECC Mapped Wetlands
-  NSTDB Open Water
-  Fish Study Area
-  Project Area



Coordinate System: NAD 1983 CSRS UTM Zone 19N
 Projection: Transverse Mercator
 Datum: North American 1983 CSRS
 Units: Meter

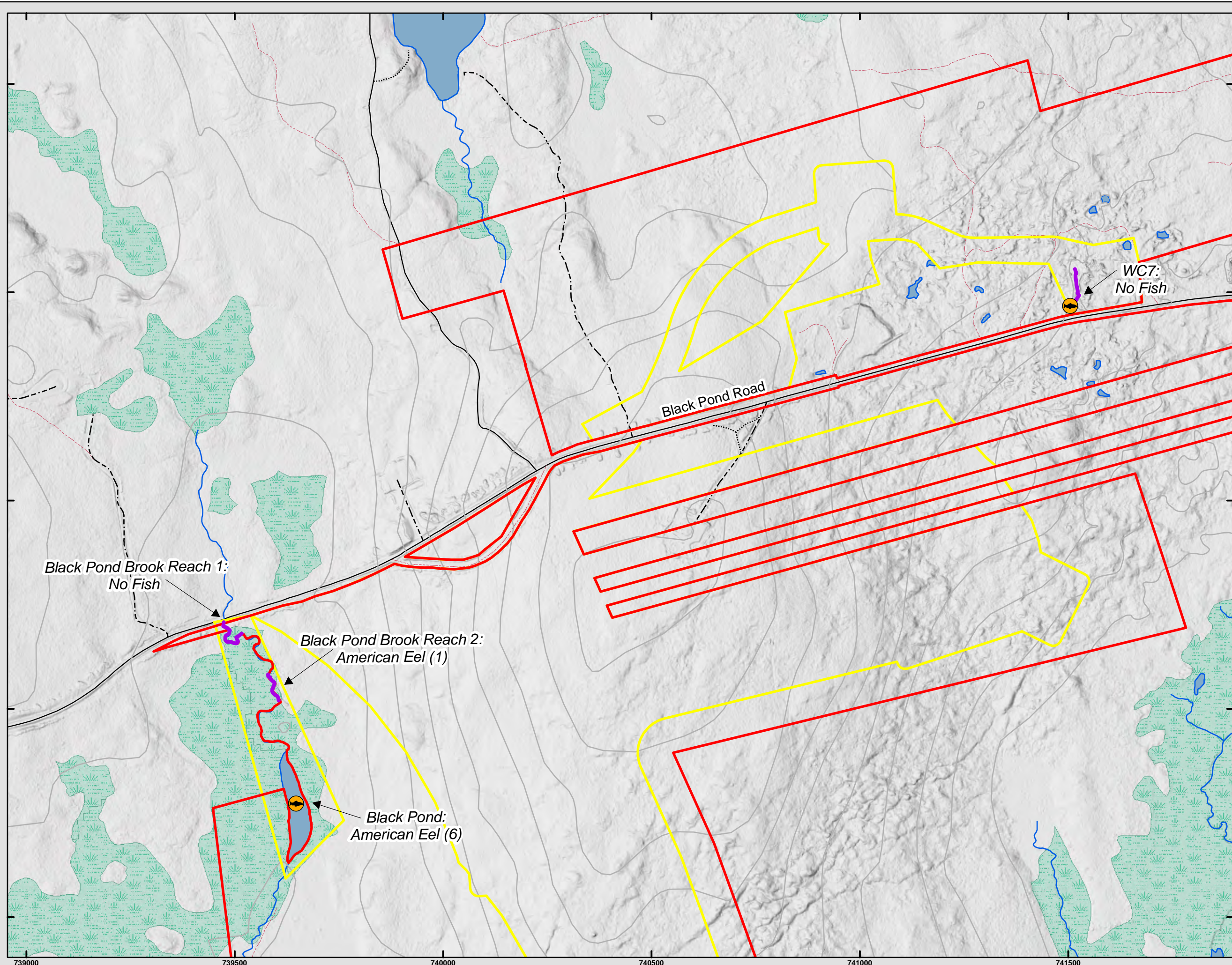


1:8,500 Scale when printed @ 11" x 17"

Drawn By: MD Project Number: 21-576
 Reviewed By: JB Date: 2023-02-21
















McCallum Environmental Ltd.



739000 739500 740000 740500 741000 741500 4847500 4848000 4848500 4849000 4849500

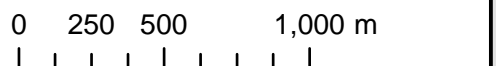
FIGURE 9

Residential Receptors
 Little River Harbour, NS

-  Buildings (NSTDB)
-  Water Wells (NSE Well Logs Database)
-  Wind Turbine Generator (WTG)
-  Highway
-  Local Road
-  Resource Access
-  Track
-  Trail
-  Driveway
-  Receptors Setback (1,000 m)
-  Project Footprint
-  PID 90024985 Excluded from Project Area
-  Project Area

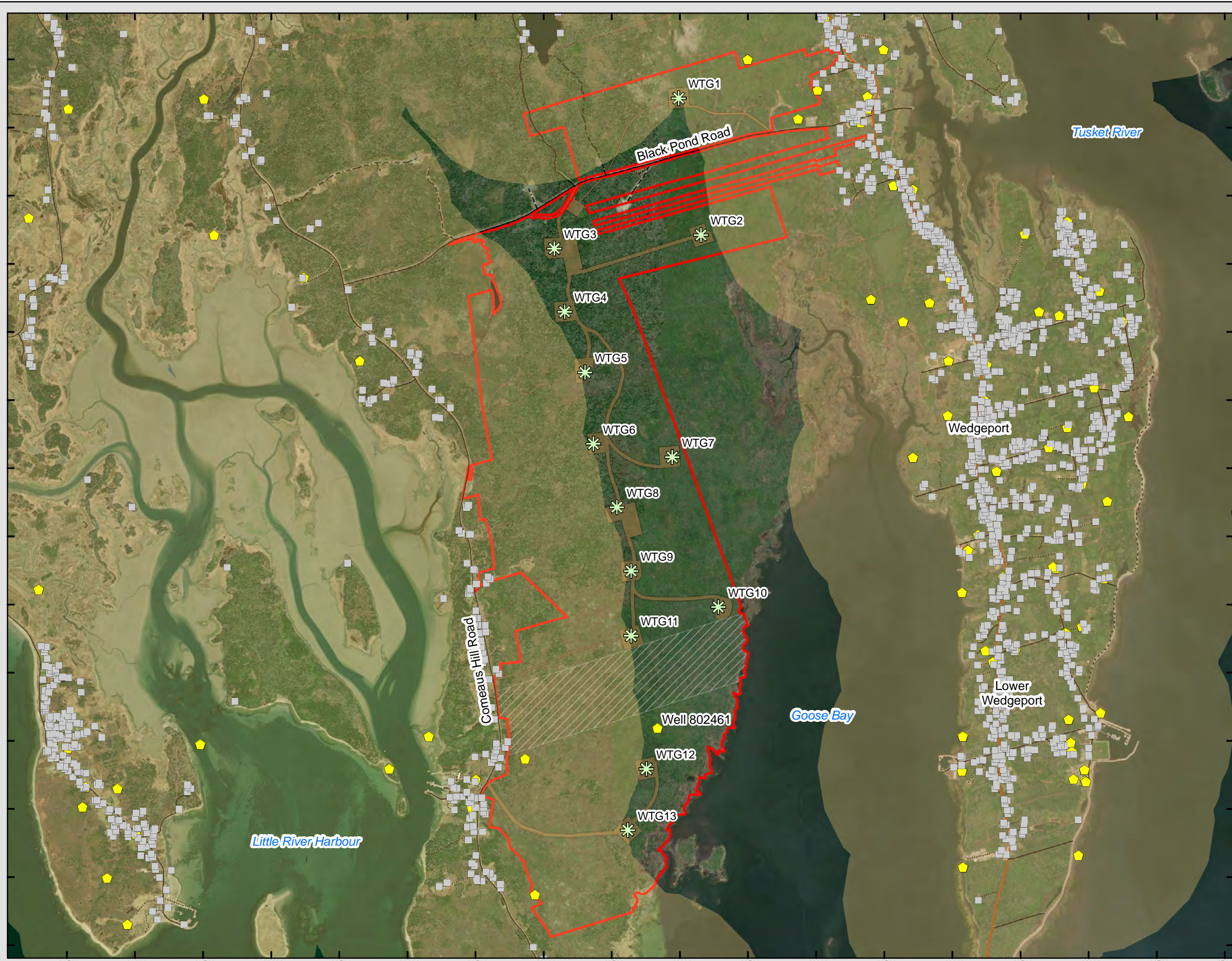


Coordinate System: NAD 1983 CSRS UTM Zone 19N
 Projection: Transverse Mercator
 Datum: North American 1983 CSRS
 Units: Meter



1:26,000 Scale when printed @ 11" x 17"

Drawn By: MD Project Number: 21-576
 Reviewed By: JB Date: 2023-03-01












4849500
4849000
4848500
4848000
4847500
4847000
4846500
4846000
4845500
4845000
4844500
4844000
4843500
4843000

FIGURE 10

Surficial Geology

Little River Harbour, NS

-  NSTDB Contour line (5 m)
-  Alluvial Deposits
-  Marine Deposits
-  Organic Deposits
-  Stony Drumlin
-  Stony Till Plain
-  NSTDB Mapped Waterbody
-  PID 90024985 Excluded from Project Area
-  Project Area



Coordinate System: NAD 1983 CSRS UTM Zone 20N
 Projection: Transverse Mercator
 Datum: North American 1983 CSRS
 Units: Meter



0 250 500 1,000 m

1:26,000 Scale when printed @ 11" x 17"

Drawn By: MD Project Number: 21-576
 Reviewed By: JB Date: 2023-02-22



McCallum Environmental Ltd.

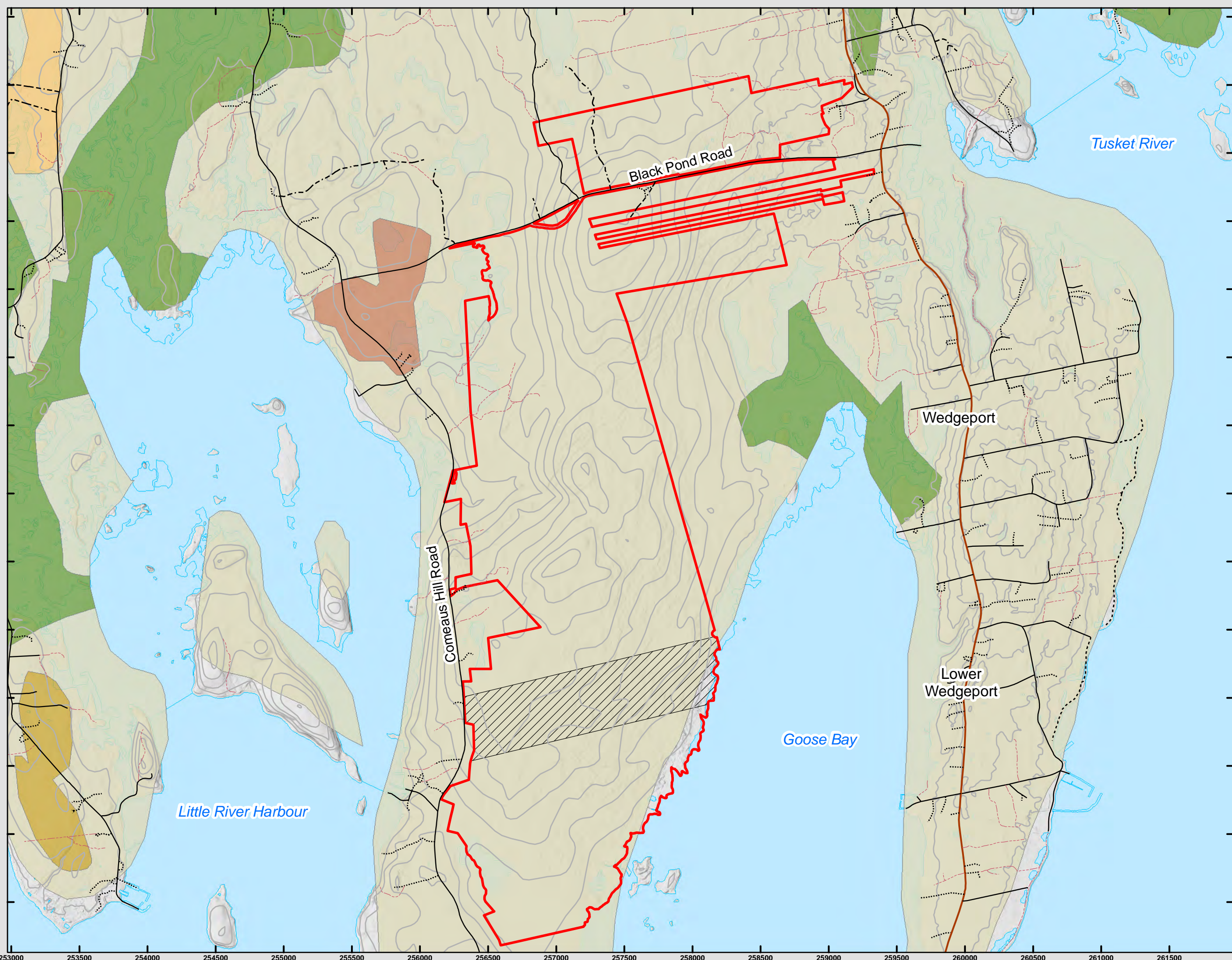








FIGURE 11

Bedrock Geology
 Little River Harbour, NS

-  NSTDB Contour line (5 m)
-  Goldenville Formation
-  Late Carboniferous monzogranite
-  NSTDB Mapped Waterbody
-  PID 90024985 Excluded from Project Area
-  Project Area



Coordinate System: NAD 1983 CSRS UTM Zone 20N
 Projection: Transverse Mercator
 Datum: North American 1983 CSRS
 Units: Meter



0 250 500 1,000 m

1:26,000 Scale when printed @ 11" x 17"

Drawn By: MD Project Number: 21-576
 Reviewed By: JB Date: 2023-02-22



McCallum Environmental Ltd.

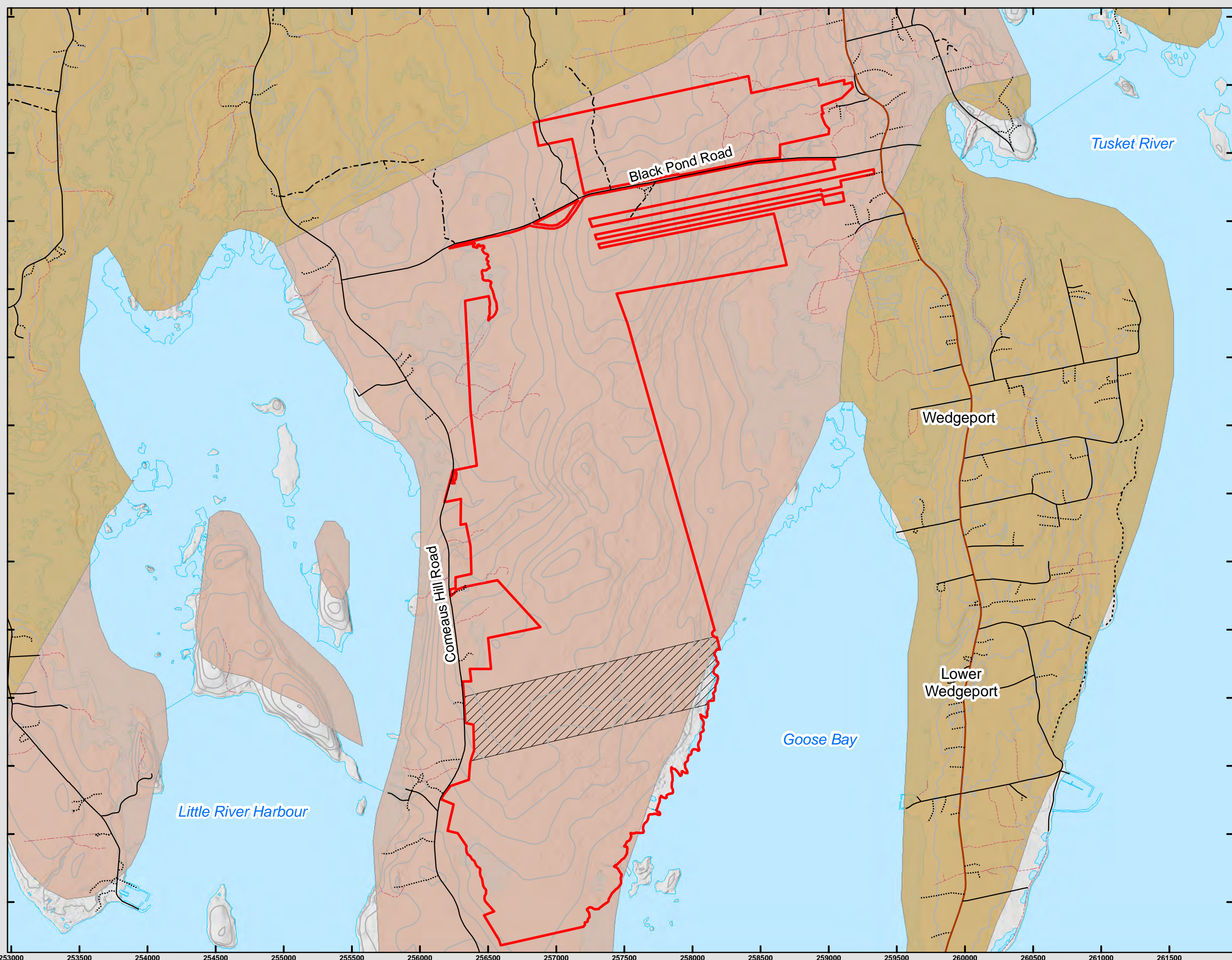
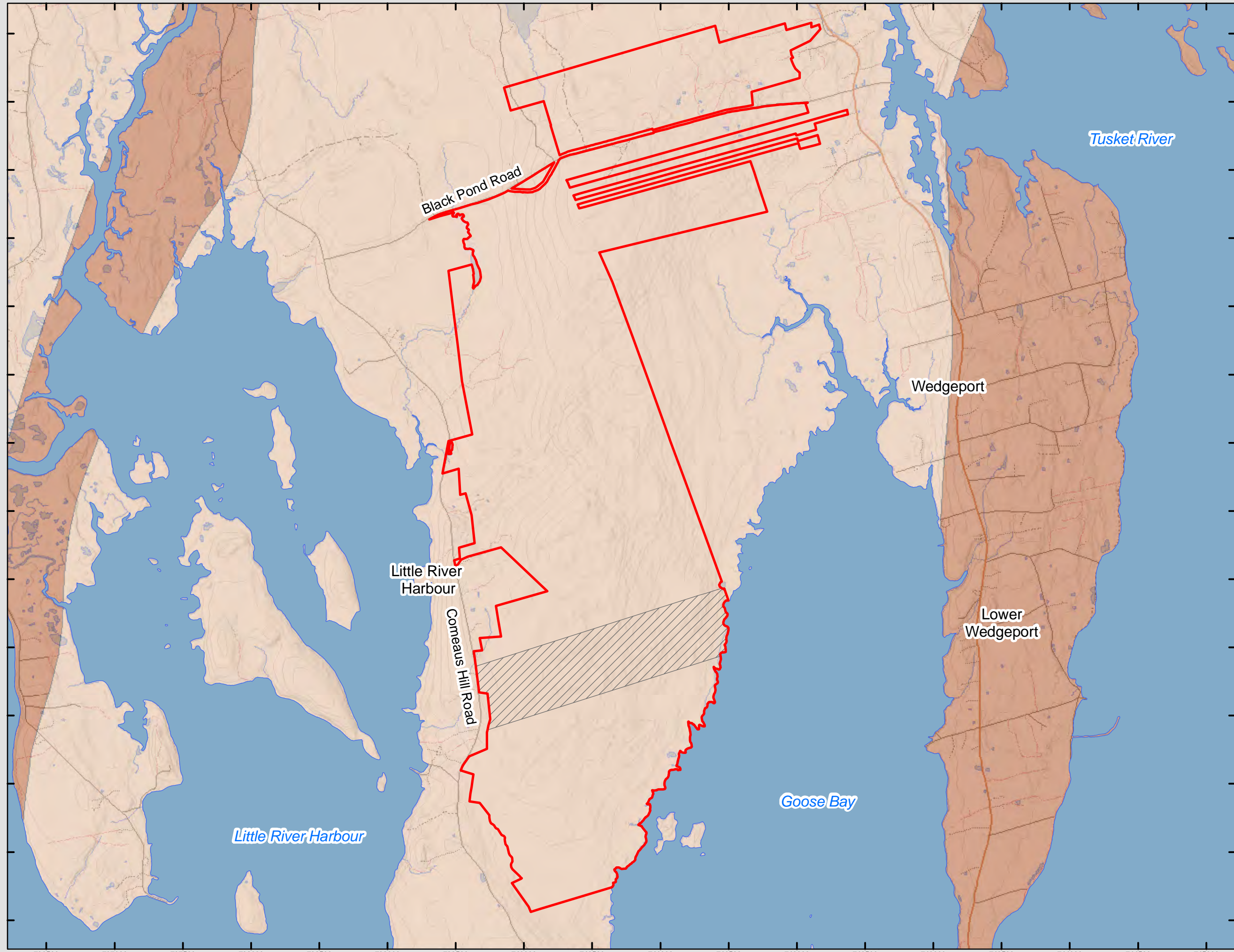








FIGURE 12

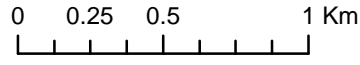
Acid Rock Drainage Potential
 Little River Harbour, NS



-  NSTDB Contour line (5 m)
-  NSTDB Mapped Watercourse
-  Low potential that bedrock will generate ARD
-  Moderate potential that bedrock will generate ARD
-  PID 90024985 Excluded from Project Area
-  Project Area



Coordinate System: NAD 1983 CSRS UTM Zone 19N
 Projection: Transverse Mercator
 Datum: North American 1983 CSRS
 Units: Meter



1:26,000 Scale when printed @ 11" x 17"

Drawn By: MD Project Number: 21-576
 Reviewed By: JB Date: 2023-01-13















McCallum Environmental Ltd.

FIGURE 13

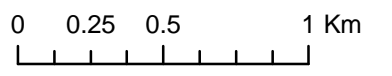
Aquatic Desktop Review

Little River Harbour, NS

-  NSTDB Contour line (5 m)
-  Flow Accumulation
-  NSTDB Mapped Watercourse
-  Shore Direct Secondary Watershed (1EA-SD6)
-  Secondary Watershed
-  NSECC Wetland of Special Significance
-  NSECC Mapped Wetlands
- Depth to Water Table**
-  0 - 0.10m
-  0.11 - 0.50m
-  0.51 - 2.00m
-  PID 90024985 Excluded from Project Area
-  Project Area



Coordinate System: NAD 1983 CSRS UTM Zone 19N
 Projection: Transverse Mercator
 Datum: North American 1983 CSRS
 Units: Meter

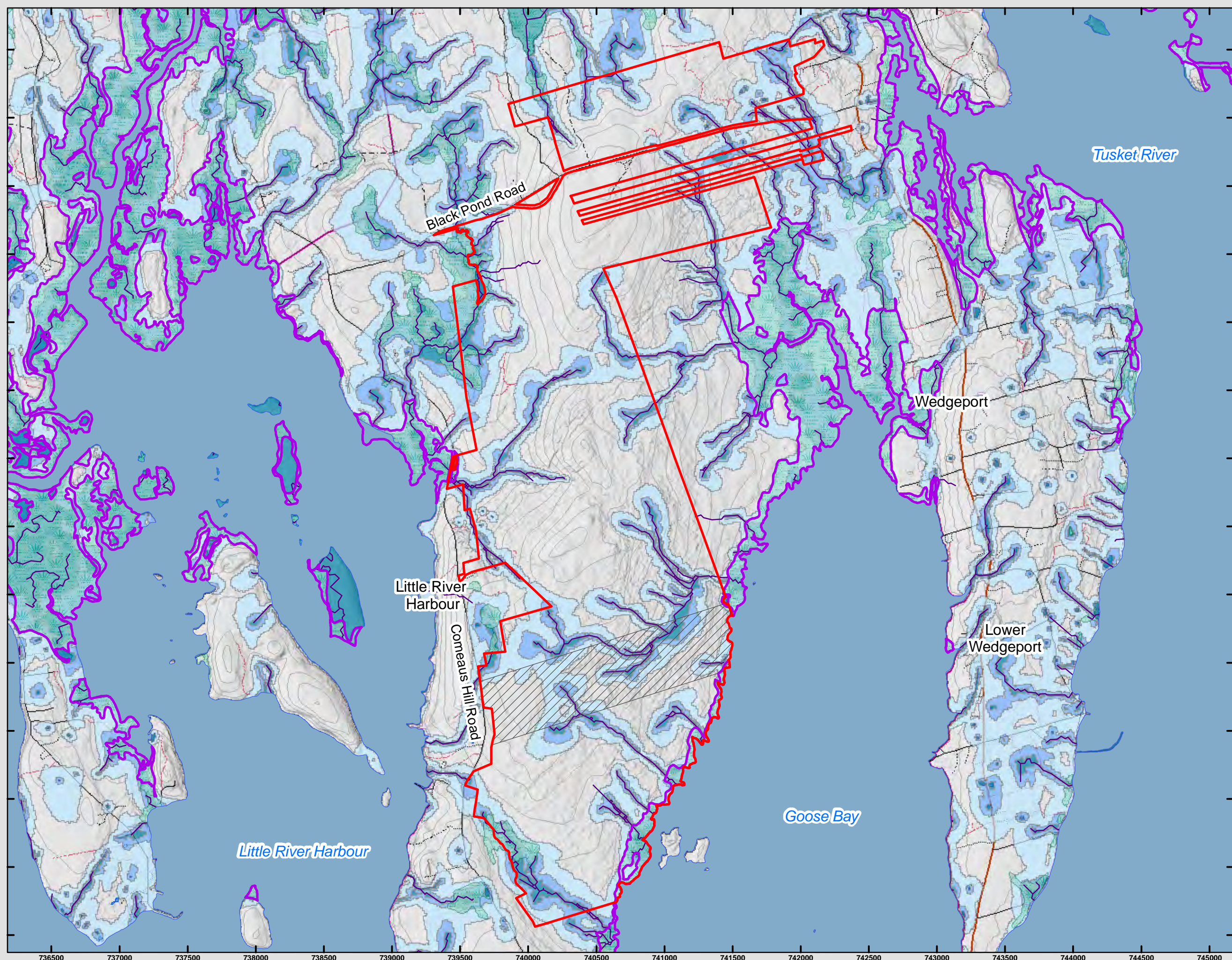


1:26,000 Scale when printed @ 11" x 17"

Drawn By: MD Project Number: 21-576
 Reviewed By: JB Date: 2023-01-13



McCallum Environmental Ltd.



736500 737000 737500 738000 738500 739000 739500 740000 740500 741000 741500 742000 742500 743000 743500 744000 744500 745000

4843000 4843500 4844000 4844500 4845000 4845500 4846000 4846500 4847000 4847500 4848000 4848500 4849000 4849500

Prepared For:



FIGURE 14

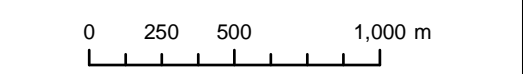
Habitat Desktop Communities

Little River Harbour, NS

- Habitat Point
- Field Delineated Watercourse
- NSTDB Mapped Watercourse
- NSTDB Contour line (5 m)
- Tusket Islands Wilderness Area
- Field Delineated Open Water
- Field Delineated Wetland
- Alders
- Barrens
- Cutover
- Hardwood Forests
- Mixedwood Forests
- Softwood Forests
- Urban/Developed
- Waterbodies
- Wetlands
- PID 90024985 Excluded from Project Area
- Project Area



Coordinate System: NAD 1983 CSRS UTM Zone 19N
 Projection: Transverse Mercator
 Datum: North American 1983 CSRS
 Units: Meter



1:26,000 Scale when printed @ 11" x 17"

Drawn By: MD Project Number: 21-576
 Reviewed By: JB Date: 2023-02-28



McCallum Environmental Ltd.

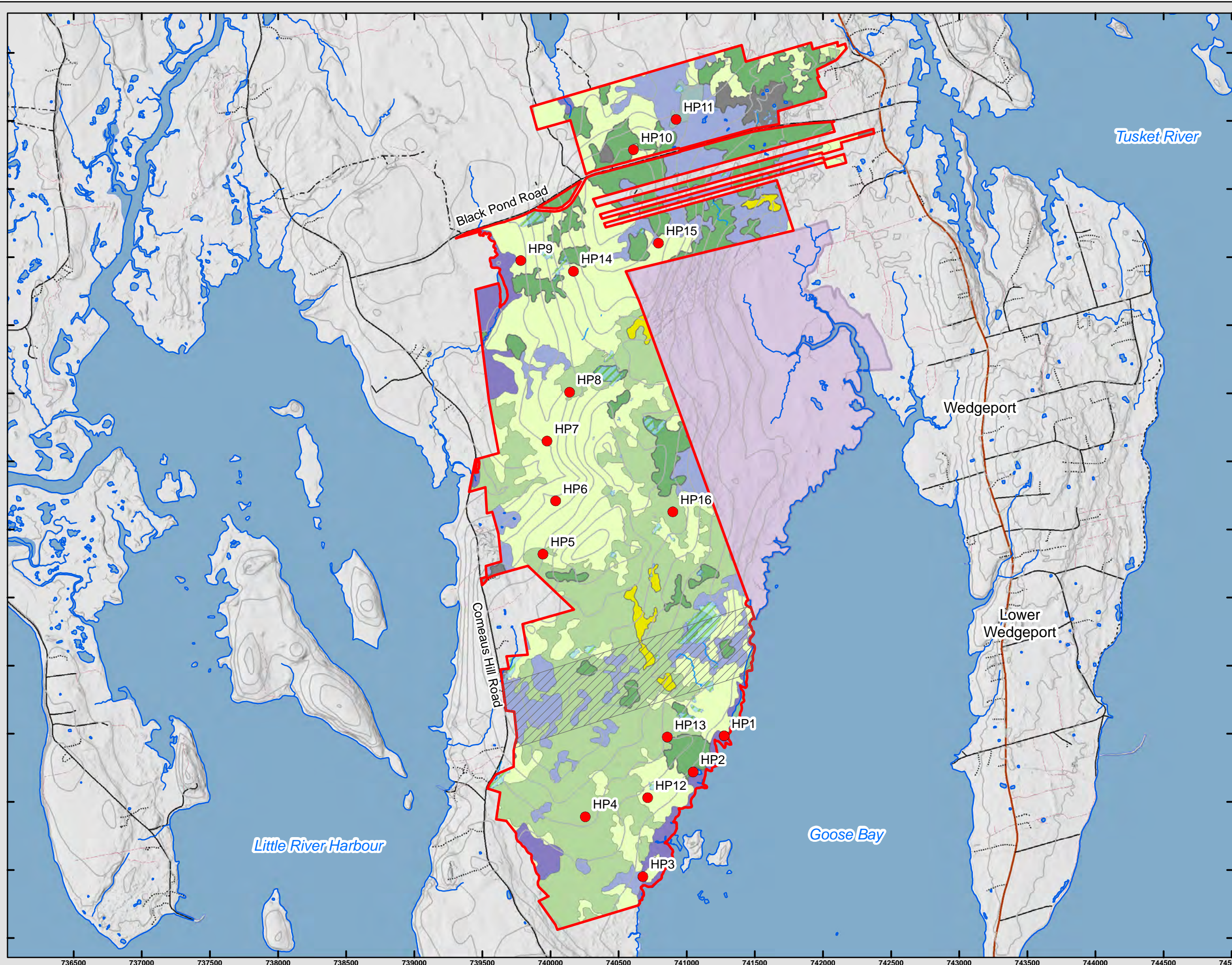
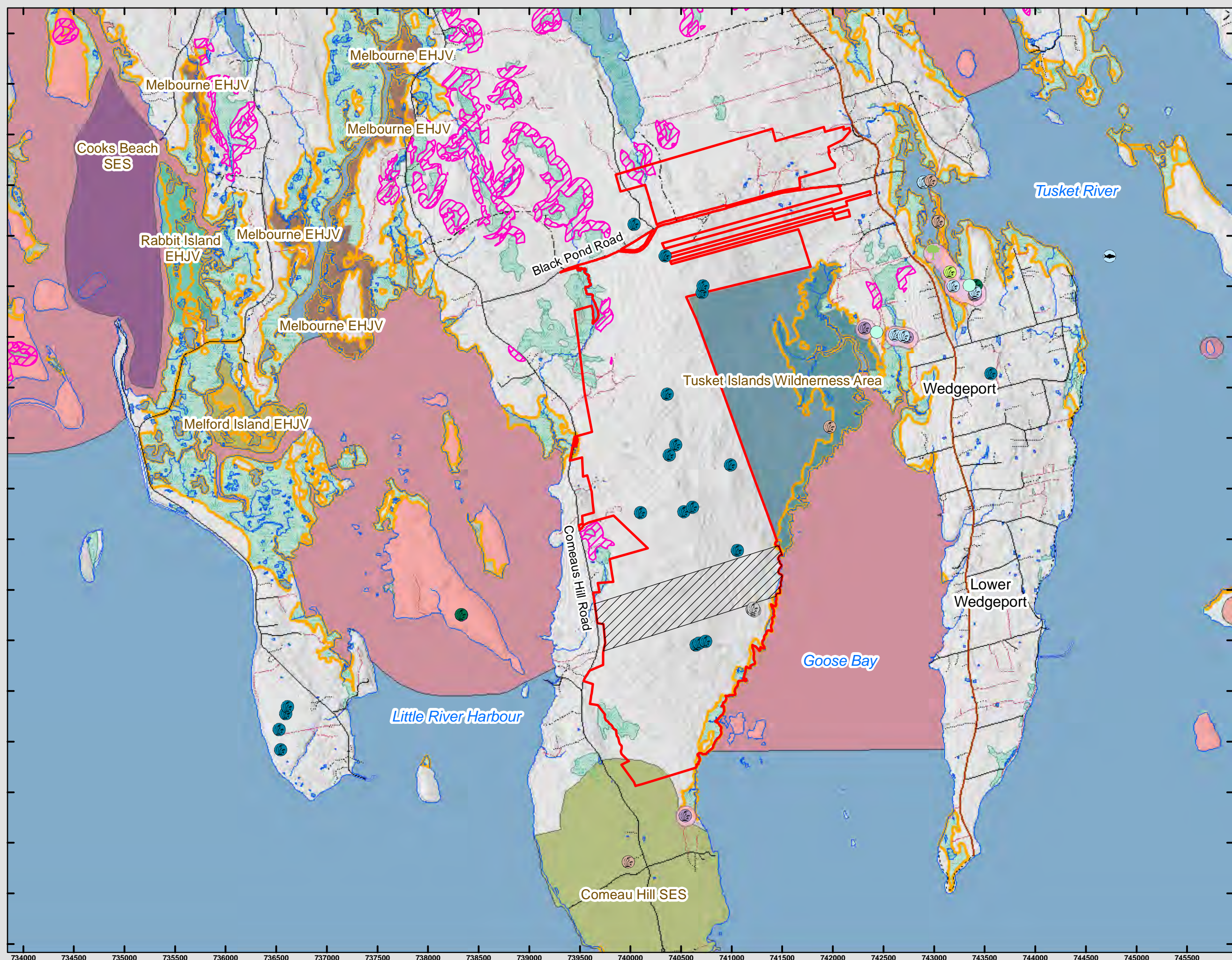








FIGURE 15

Desktop Review
 Flora & Fauna

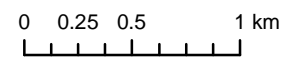
Little River Harbour, NS



- | | |
|--|---|
|  Atlantic Whitefish |  NSTDB Mapped Watercourse |
|  Seaside Dragonlet |  Boreal Felt Lichen Predictive Habitat |
|  American Beech |  NSECC Wetland of Special Significance |
|  Beaked Spikerush |  NSECC Mapped Wetlands |
|  Big-leaved Marsh-elder |  NSTDB Open Water |
|  Eastern Skunk Cabbage |  Atlantic Coastal Plains Flora Buffer |
|  Laurentian Primrose |  Significant Habitat |
|  Olney's Bulrush | |
|  Saltmarsh Agalinis | |
|  Southern Twayblade | |
|  Highbush Blueberry | |



Coordinate System: NAD 1983 CSRS UTM Zone 19N
 Projection: Transverse Mercator
 Datum: North American 1983 CSRS
 Units: Meter



1:35,000 Scale when printed @ 11" x 17"

Drawn By: MD Project Number: 21-576
 Reviewed By: JB Date: 2023-01-13

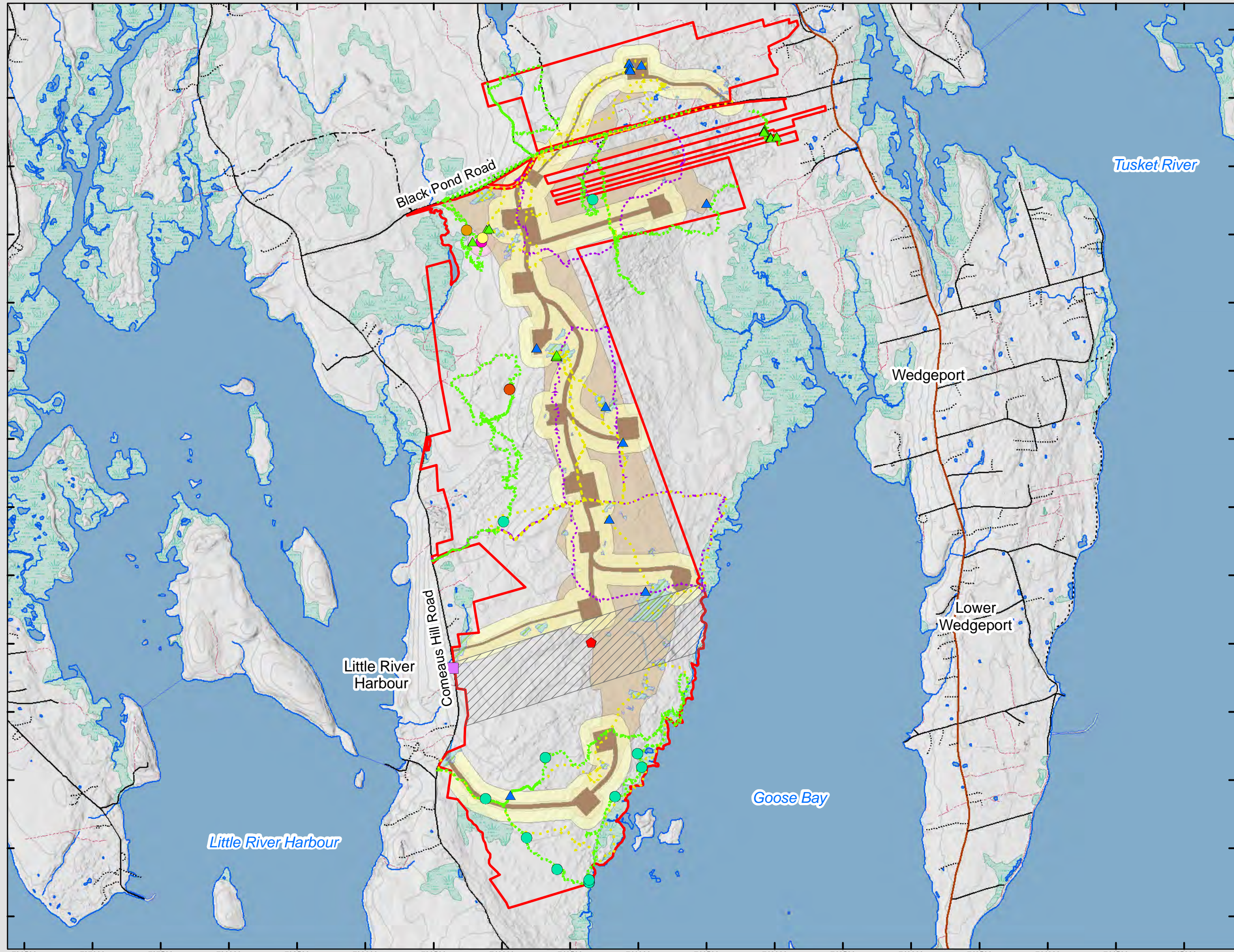


McCallum Environmental Ltd.

FIGURE 16

Flora, Fauna, and Lichen Survey Results

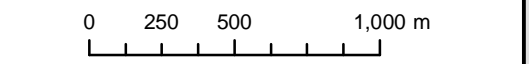
Little River Harbour, NS



- | | |
|--|---|
| <ul style="list-style-type: none"> Early Botany Surveyor Tracks Late Botany Surveyor Tracks Lichen Surveyor Tracks Field Delineated Watercourse NSTDB Contour line (5 m) NSTDB Mapped Watercourse Blue Felt Lichen SMP 100m Buffer Field Delineated Wetland NSECC Mapped Wetlands NSTDB Open Water Depth of Influence (100 m) Project Footprint Study Area PID 90024985 Excluded from Project Area Project Area | <ul style="list-style-type: none"> Coccocarpia palmicola (S3S4) Fuscopannaria soreidiata (S2S3) Heterodermia neglecta (S3S4) Parmotrema perlatum (S3S4) Blue Felt Lichen (Pectenaria plumbea, SARA & COSEWIC Special Concern, NSESA Vulnerable, ACCDC:S3) Eastern Skunk Cabbage (Symplocarpus foetidus, S3S4) Usnea rubicunda (S2S3) Highbush Blueberry (Vaccinium corymbosum, S3S4) Monarch (Incidental) Unidentified bat (Incidental) |
|--|---|



Coordinate System: NAD 1983 CSRS UTM Zone 19N
 Projection: Transverse Mercator
 Datum: North American 1983 CSRS
 Units: Meter



1:26,000 Scale when printed @ 11" x 17"

Drawn By: MD Project Number: 21-576
 Reviewed By: JB Date: 2023-01-13



McCallum Environmental Ltd.