

APPENDIX A. FIGURES

Prepared For:



FIGURE 1.

Project Location

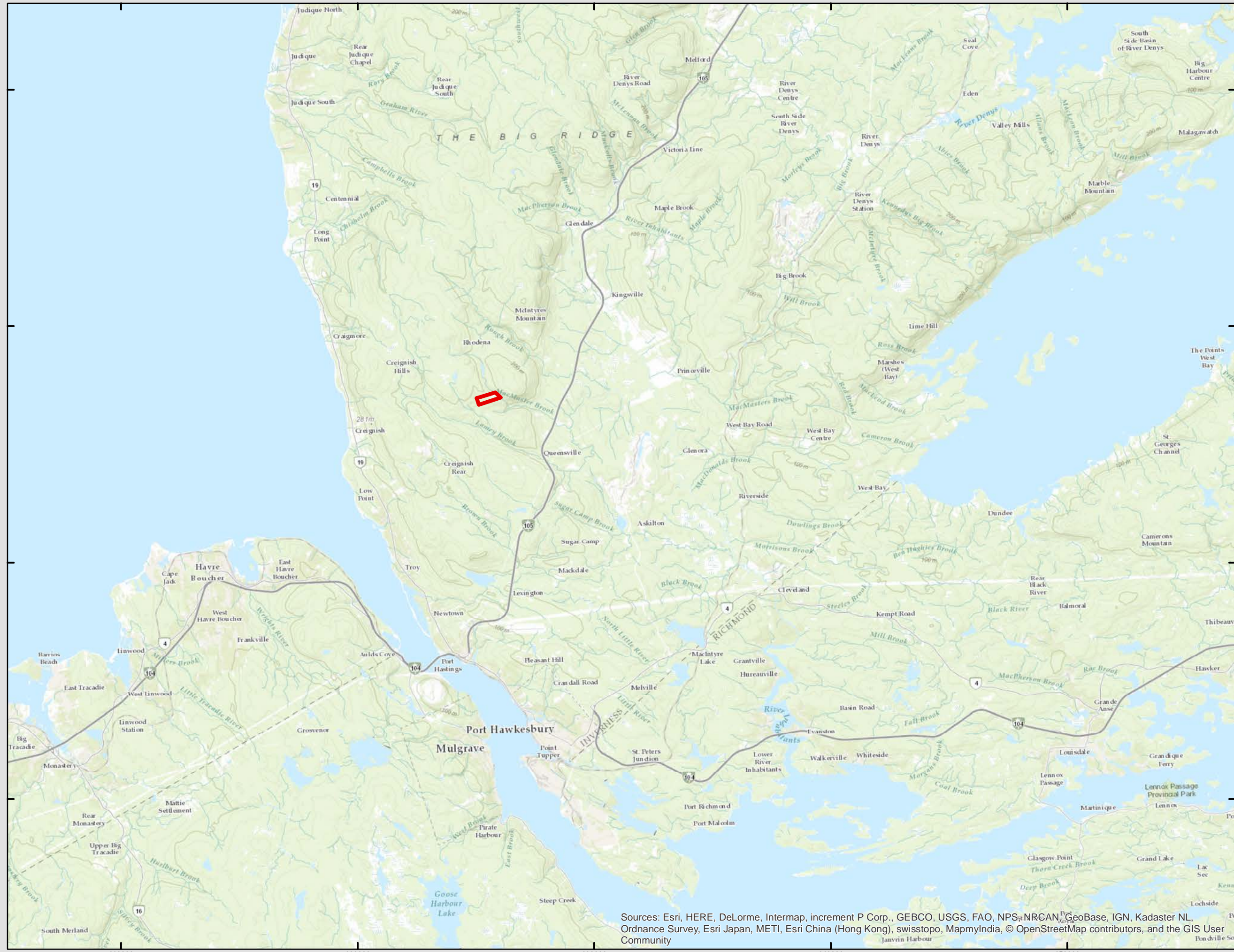
Proposed Rhodena Quarry Expansion

Rhodena, Nova Scotia

PIDs 50193390 & 50297316

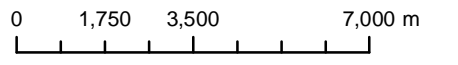
Legend

Study Area



Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

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



1:150,000 Scale when printed @ 11" x 17"

Drawn By: TLG Date: 2/28/2017



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FIGURE 2.






Property Map

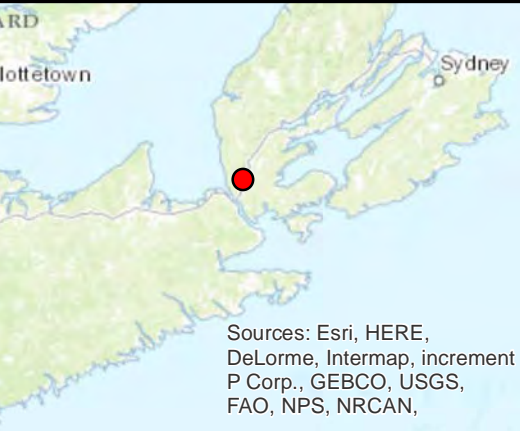
Proposed Rhodena Quarry Expansion

Rhodena, Nova Scotia.

PIDs 50193390 & 50297316

Legend

-  Study Area
-  PID 50193390
-  PID 50297316
-  Wetlands (NSE)
-  Roads
-  Watercourse (NSE)



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



0 135 270 540 m

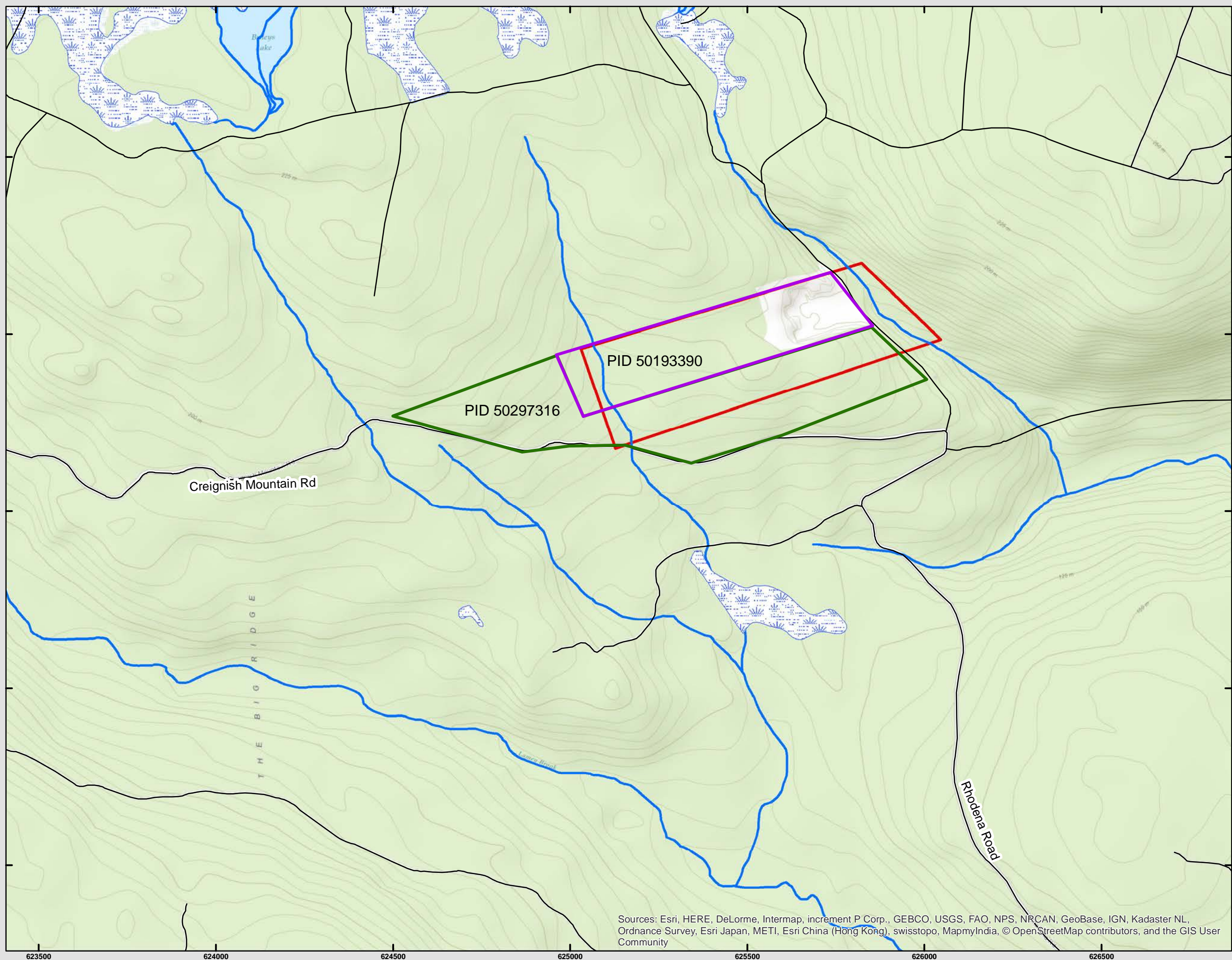
1:10,000 Scale when printed @ 11" x 17"

Drawn By: TLG

Date: 4/18/2017



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FIGURE 3.




Closest Residence

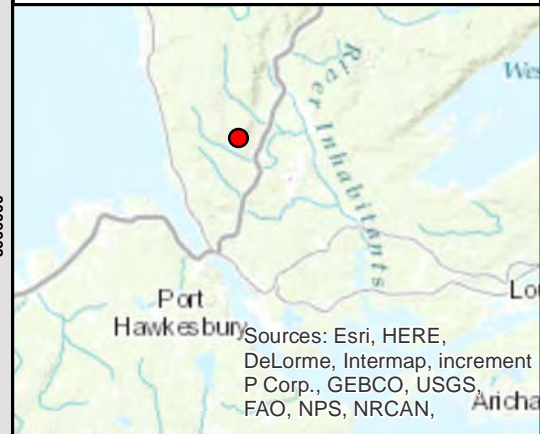
Proposed Rhodena Quarry Expansion

Rhodena, Nova Scotia

PIDs 50193390 & 50297316

Legend

-  Closest Residence
-  Proposed Working Area
-  Study Area



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



0 120 240 480 m

1:10,000 Scale when printed @ 11" x 17"

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FIGURE 4.

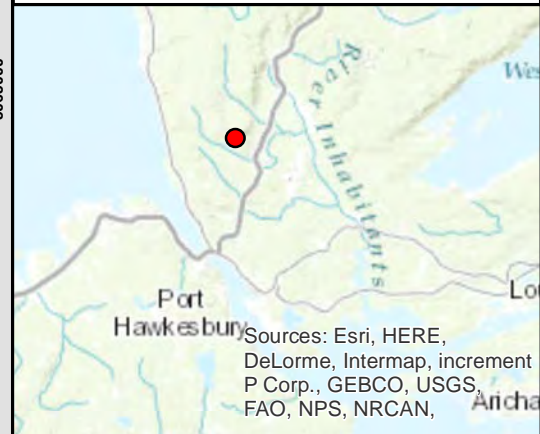
Protected and Conservation Areas

Proposed Rhodena Quarry Expansion

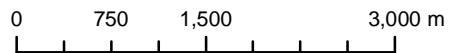
Rhodena, Nova Scotia.

Legend

- Wetlands of Special Significance
- Deer Wintering
- Species at Risk
- Species of Concern
- River Inhabitants Nature Reserve
- Protected Water Areas
- Study Area



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



1:60,000 Scale when printed @ 11" x 17"

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FIGURE 5.

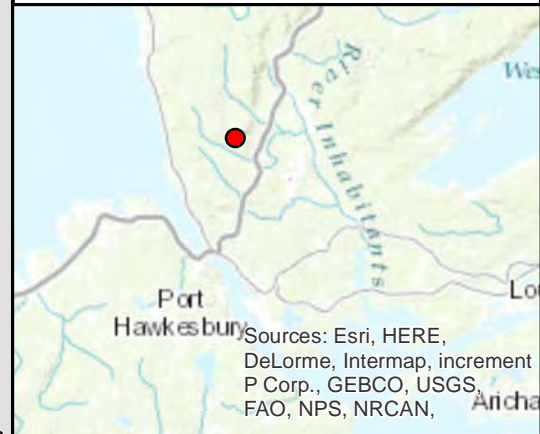
Project Overview

Proposed Rhodena Quarry Expansion

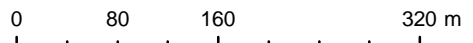
**Rhodena, Nova Scotia
PIDs 50193390 & 50297316**

Legend

- Proposed Working Area
- Study Area



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



1:6,000 Scale when printed @ 11" x 17"

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FIGURE 6.





Development Plan

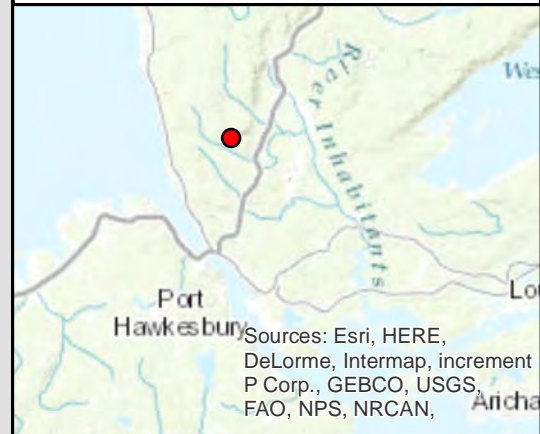
Proposed Rhodena Quarry Expansion

Rhodena, Nova Scotia.

PIDs 50193390 & 50297316

Legend

-  Development Planned
-  Intermittent Watercourse (field)
-  Watercourses (field)
-  Proposed Working Area
-  Wetlands (field)
-  Study Area



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



0 50 100 200 m

1:4,000 Scale when printed @ 11" x 17"

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FIGURE 7.

Field Methods

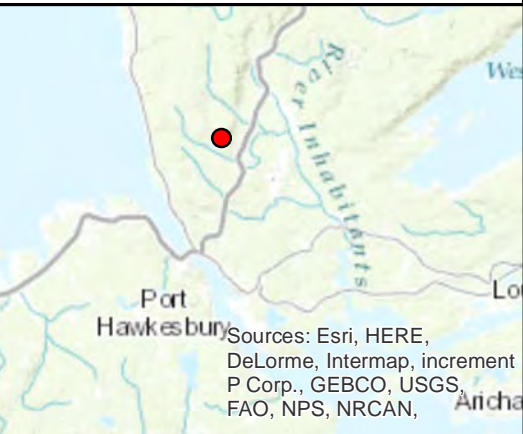
Proposed Rhodena Quarry Expansion

Rhodena, Nova Scotia

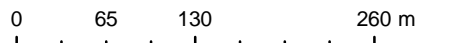
PIDs 50193390 & 50297316

Legend

- Nocturnal Owl Points
- Bird Survey Points
- WQ Samples
- Intermittent Watercourse
- Watercourses (field)
- Watercourse (NSE)
- Study Area



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



1:5,500 Scale when printed @ 11" x 17"

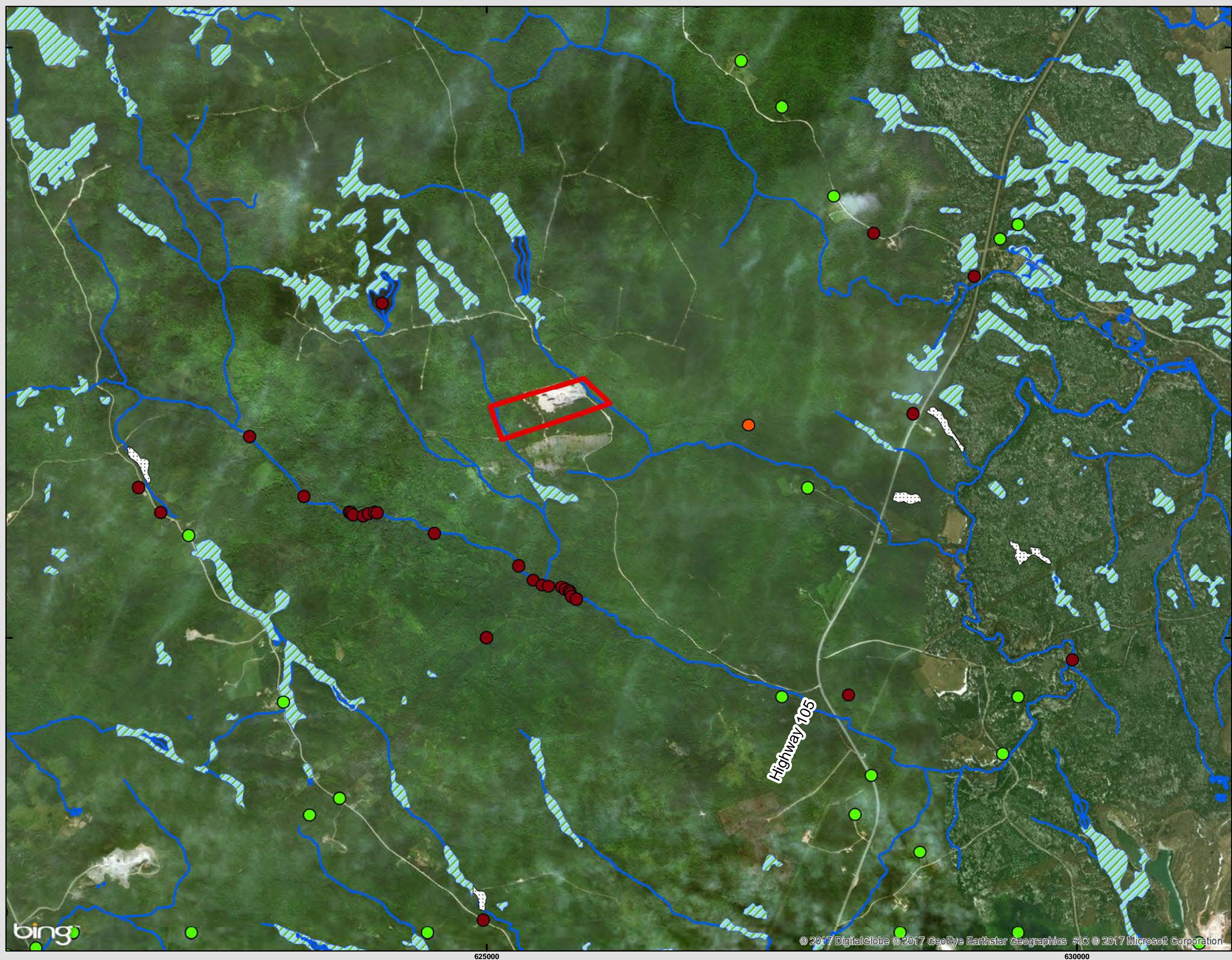
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Date: 4/15/2017



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FIGURE 8.

Desktop Review Results

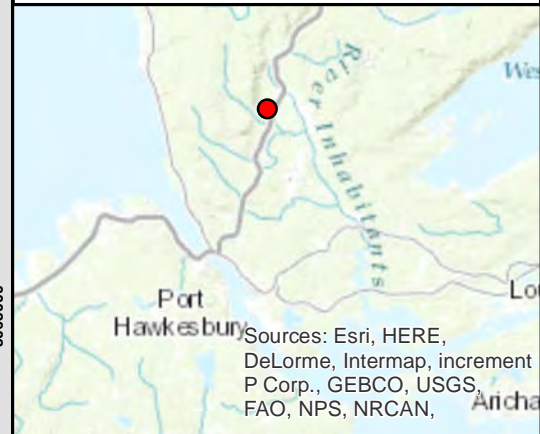
Proposed Rhodena Quarry Expansion

Rhodena, Nova Scotia.

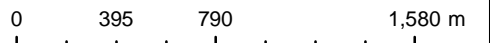
PIDs 50193390 & 50297316

Legend

- Study Area
- ACCDC (5km radius)
- Inaccurate Mapped Well
- Water Wells
- WSS
- Wetlands (NSE)
- Watercourse (NSE)



Coordinate System: NAD 1983 UTM Zone 20N
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 Datum: North American 1983
 Units: Meter



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FIGURE 9.






Surficial Geology

Proposed Rhodena Quarry Expansion

Rhodena, Nova Scotia.

PIDs 50193390 & 50297316

Legend

-  Study Area
-  Roads
-  Bedrock
-  Organic Deposits
-  Stony Till Plain



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



0 135 270 540 m

1:10,000 Scale when printed @ 11" x 17"

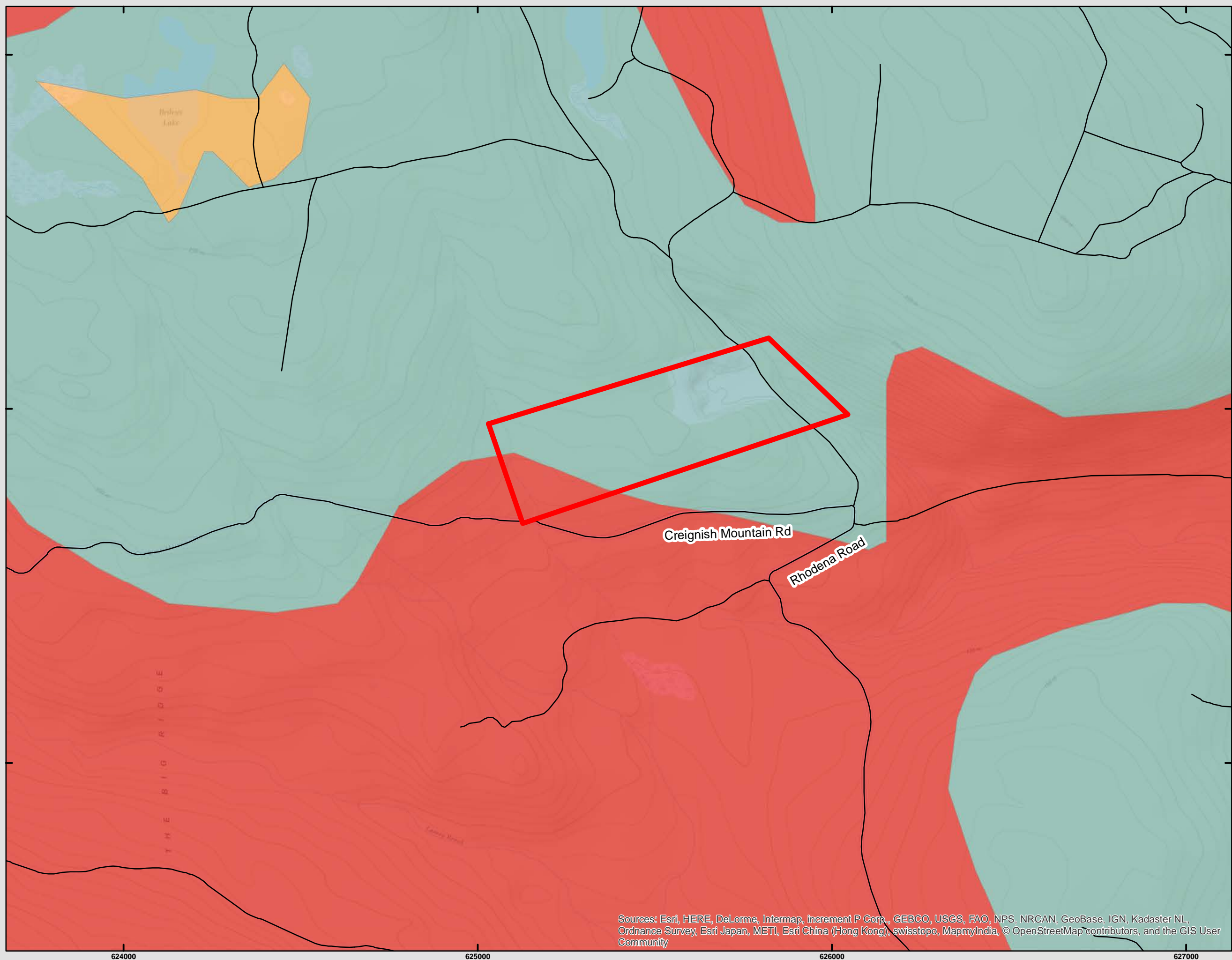
Drawn By: TLG

Date: 4/18/2017



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Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community



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Document Name: 170403_surficial_geology

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FIGURE 10.

Bedrock Geology

Proposed Rhodena Quarry Expansion

Rhodena, Nova Scotia.

PIDs 50193390 & 50297316

Legend

- Roads
- Study Area
- Creignish Formation
- Horton Group
- Neoproterozoic granite
- Neoproterozoic granodiorite



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



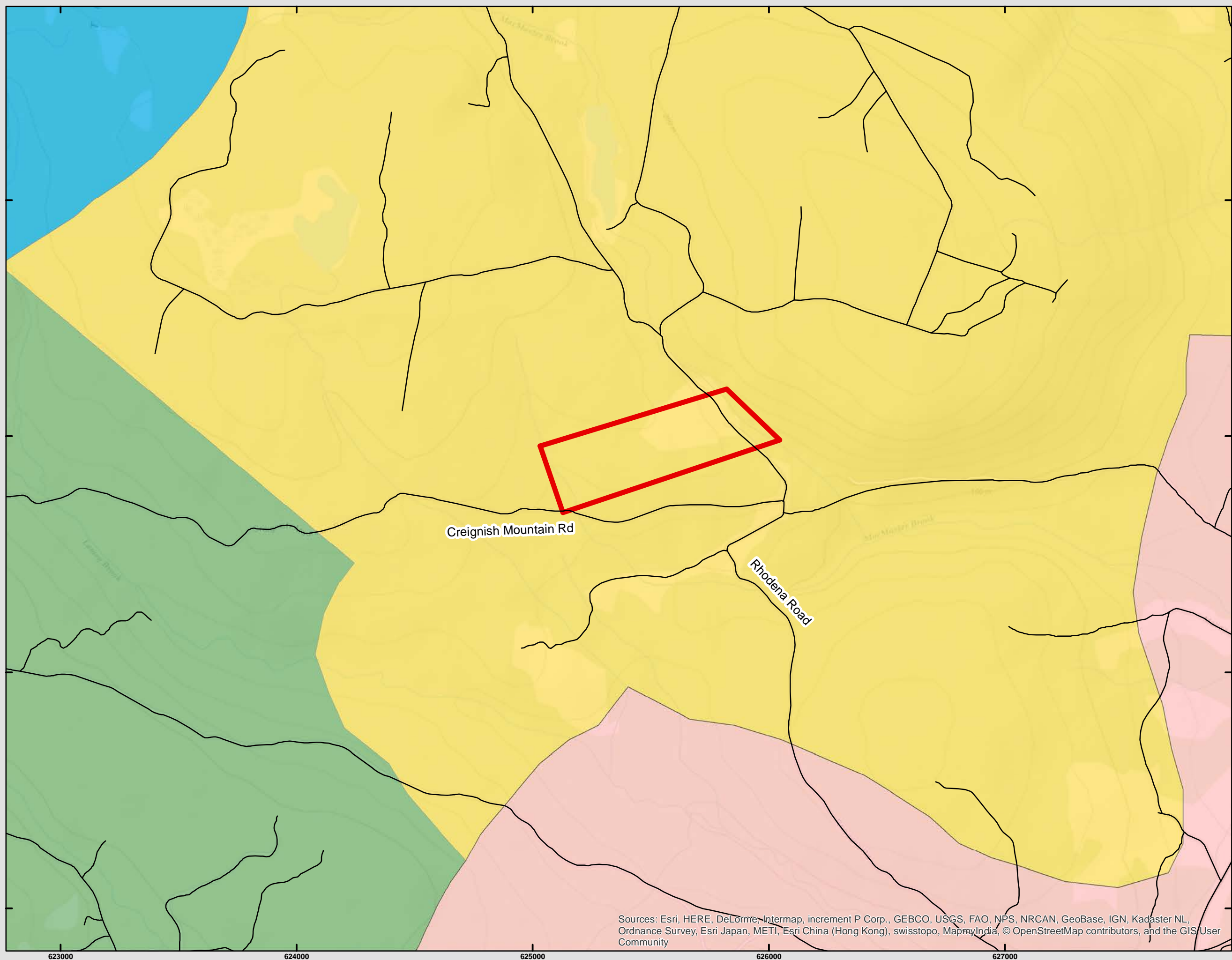
0 200 400 800 m

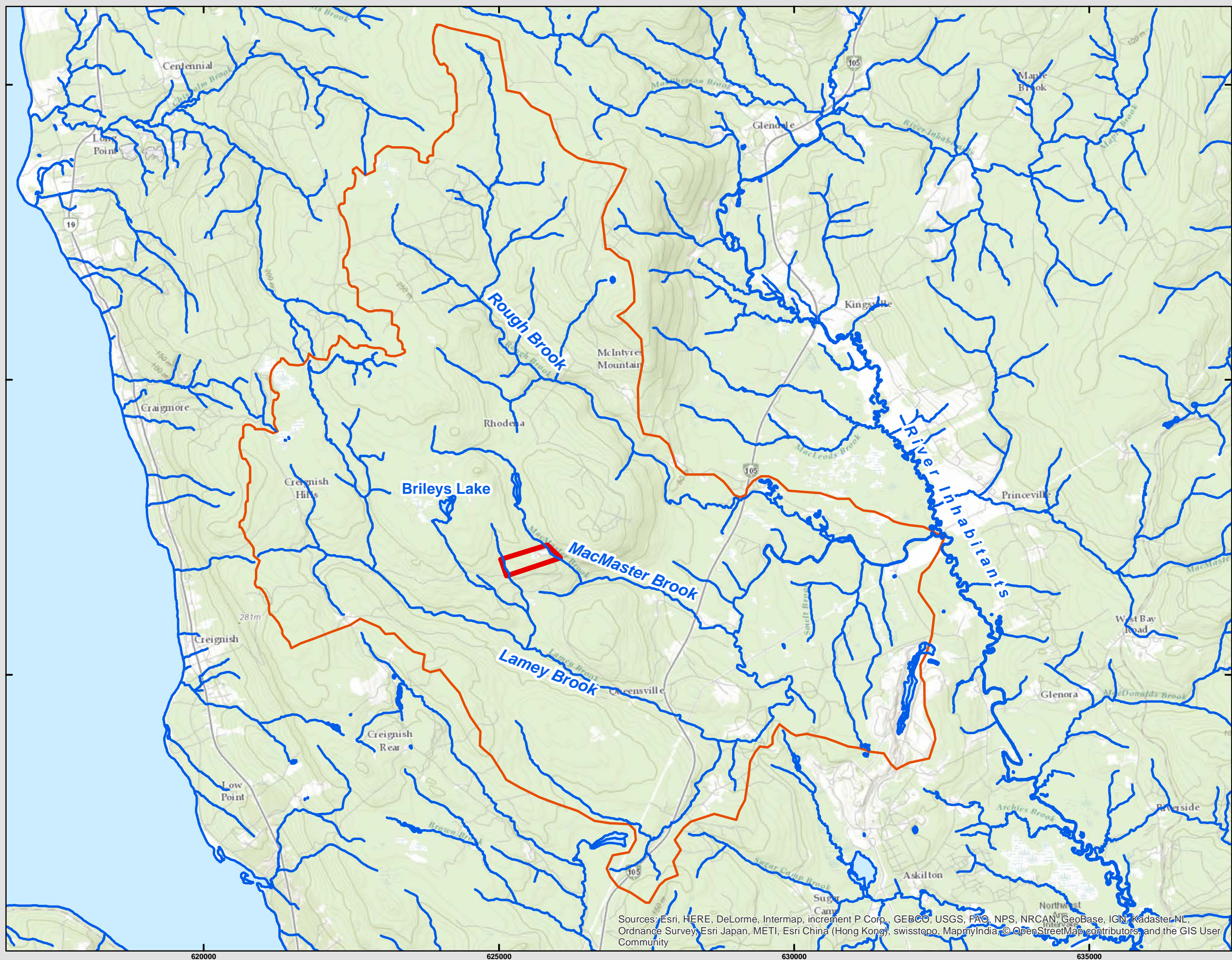
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FIGURE 11.

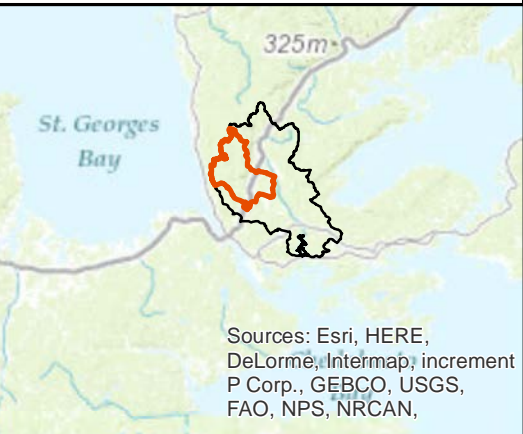
Tertiary Watershed and associated Surface Watercourses

Proposed Rhodena Quarry Expansion

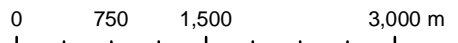
Rhodena, Nova Scotia.

Legend

-  Study Area
-  Watercourse (NSE)
-  Brileys Lake Tertiary Watershed



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



1:60,000 Scale when printed @ 11" x 17"

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FIGURE 12.

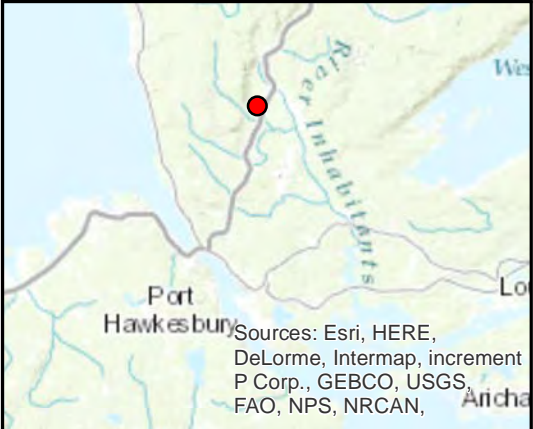
**Wetlands, Watercourses,
SAR/SOCI Observations**

**Proposed Rhodena Quarry
Expansion**

**Rhodena, Nova Scotia
PIDs 50193390 & 50297316**

Legend

- Incidental Bird Observations
- Bird Survey Points
- Cabin
- - - Intermittent Watercourse
- Watercourses (field)
- Watercourse (NSE)
- Proposed Working Area
- Wetlands (field)
- Study Area



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



0 60 120 240 m

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Date: 6/5/2017



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Location	Species	SRank/SARA	Season
Inc.1	Boreal Chickadee	S3	Winter
PC1	Swainson's Thrush	S3S4B	BBS
PC1	Yellow-bellied Flycatcher	S3S4B	BBS
PC3	Olive-Sided Flycatcher	S3B/Threatened	BBS
PC3	Red-breasted Nuthatch	S3	Fall
PC3	Ruby-crowned Kinglet	S3S4B	BBS
PC4	Yellow-bellied Flycatcher	S3S4B	BBS
PC6	Swainson's Thrush	S3S4B	BBS
PC6	Yellow-bellied Flycatcher	S3S4B	BBS
PC7	Boreal Chickadee	S3	Spring
PC8	Yellow-bellied Flycatcher	S3S4B	BBS

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FIGURE 13.

Archaeological Results

Proposed Rhodena Quarry Expansion

Rhodena, Nova Scotia

PIDs 50193390 & 50297316

Legend

- Historic Features
- Cabin
- Intermittent Watercourse
- Watercourses (field)
- Historic Features 20m Buffer
- Watercourse (NSE)
- Wetlands (field)
- Proposed Working Area
- Study Area



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



0 40 80 160 m

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