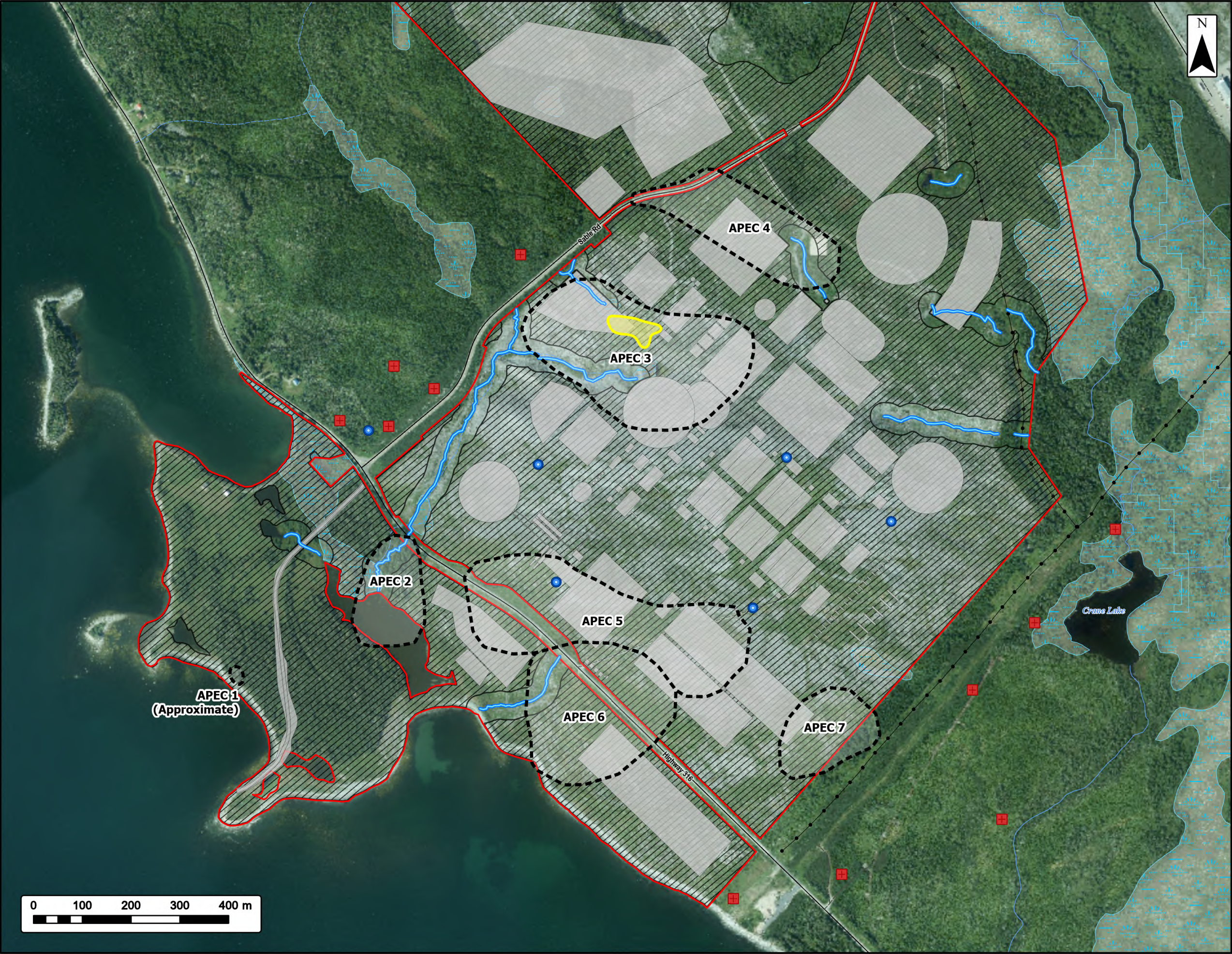
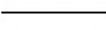
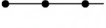




Nova Sustainable Fuels

Areas of Potential Environmental Concern



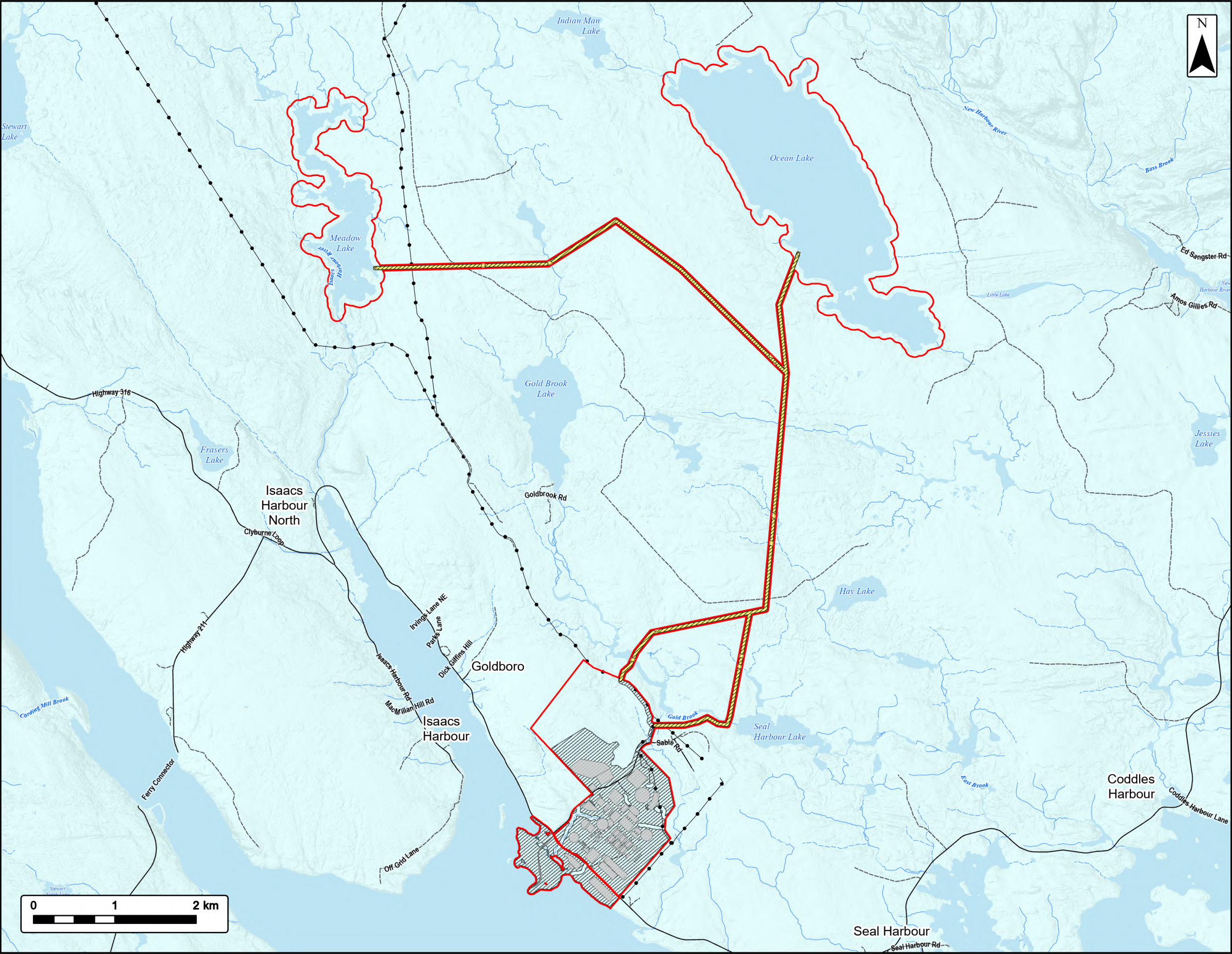
- Assessment Area 
- Project Footprint 
- Project Infrastructure 
- Field Assessed Watercourses 
- Tailings Pile 
- Areas of Potential Environmental Concern 
- Select Historical Soil Sampling Locations 
- Groundwater Sampling Locations 
- Transportation**
- Road 
- Unpaved Road 
- Utilities (Line)**
- Existing Pipeline 
- Water Features**
- Mapped Stream 
- Mapped Intermittent/Ephemeral Stream 
- Mapped Wetlands 



Coordinate System: NAD 1983 UTM Zone 20N
Sources: Service Nova Scotia, GeoNOVA, SNSIS, NSNRR, ACCDC, IBA Canada, CNWI, HERE, Garmin, USGS

Date:	2025-10-20	Project #:	24-10412
Scale:	1:7,500	Drawing #:	7.3
Drawn By:	M. Partridge		
Checked By:	F. Gascon		





Nova Sustainable Fuels

Karst Risk



Assessment Area

Project Footprint

Project Infrastructure

Proposed Freshwater Pipeline Routes

Karst Risk

Low Risk

Transportation

Road

Unpaved Road

Utilities (Line)

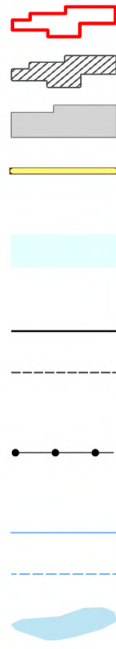
Existing Pipeline

Water Features

Mapped Stream

Mapped Intermittent/Ephemeral Stream

Mapped Lakes and Rivers





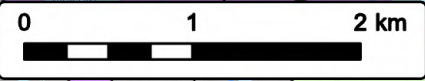
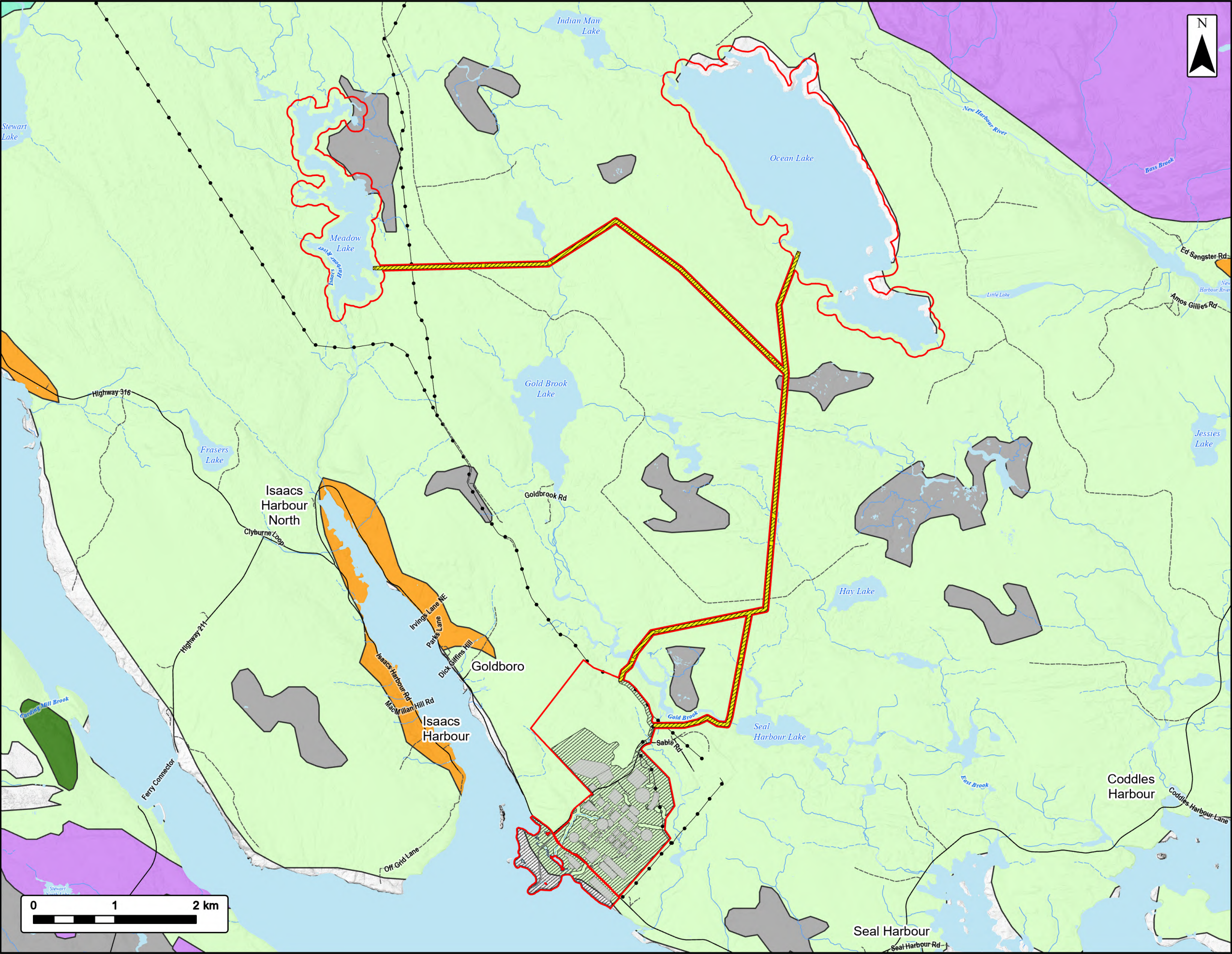
Coordinate System: NAD 1983 UTM Zone 20N

Sources: Service Nova Scotia, GeoNOVA, SNSIS, NSNRR, ACCDC, IBA Canada, CNWI, HERE, Garmin, USGS

Date:	2025-10-20	Project #:	24-10412
Scale:	1:45,000	Drawing #:	7.4
Drawn By:	M. Partridge		
Checked By:	H. Mosher		



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Nova Sustainable Fuels

Surficial Geology



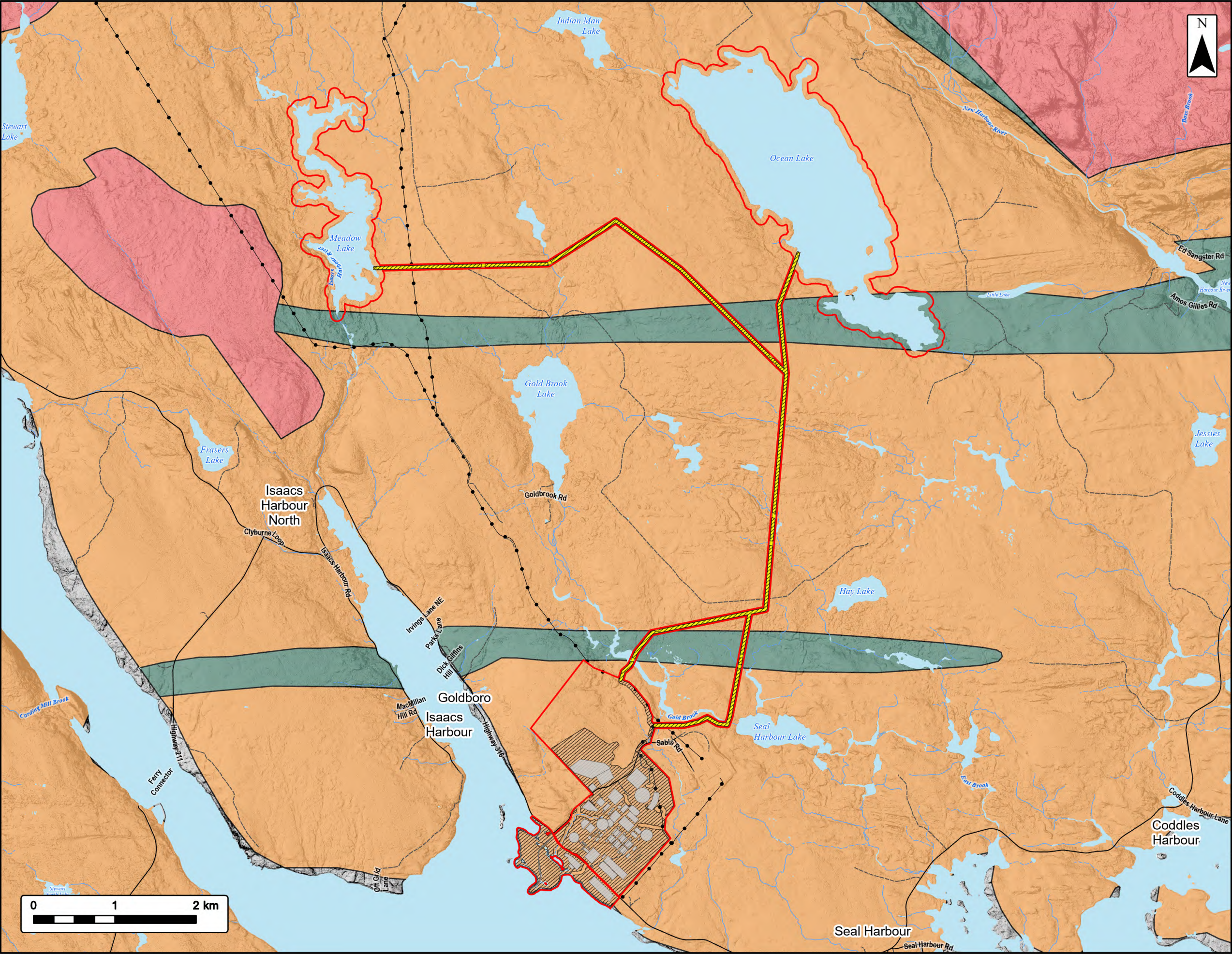
- Assessment Area
- Project Footprint
- Project Infrastructure
- Proposed Freshwater Pipeline Routes
- Surficial Geology By Unit**
- Bedrock
- Hummocky Ground Moraine
- Kame Fields and Esker Systems
- Organic Deposits
- Silty Drumlin
- Stony Till Plain
- Transportation**
- Road
- Unpaved Road
- Utilities (Line)**
- Existing Pipeline
- Water Features**
- Mapped Stream
- Mapped Intermittent/Ephemeral Stream
- Mapped Lakes and Rivers



Coordinate System: NAD 1983 UTM Zone 20N
Sources: Service Nova Scotia, GeoNOVA, SNSIS, NSNRR, ACCDC, IBA Canada, CNWI, HERE, Garmin, USGS

Date:	2025-10-20	Project #:	24-10412
Scale:	1:45,000	Drawing #:	7.5
Drawn By:	M. Partridge		
Checked By:	H. Mosher		





Nova Sustainable Fuels

Bedrock Geology



Assessment Area

Project Footprint

Project Infrastructure

Proposed Freshwater Pipeline Routes

Bedrock Geology By Formation

Halifax Formation

Goldenville Formation

Middle - Late Devonian muscovite biotite monzogranite

Transportation

Road

Unpaved Road

Utilities (Line)

Existing Pipeline

Water Features

Mapped Stream

Mapped Intermittent/Ephemeral Stream

Mapped Lakes and Rivers



Coordinate System: NAD 1983 UTM Zone 20N

Sources: Service Nova Scotia, GeoNOVA, SNSIS, NSNRR, ACCDC, IBA Canada, CNWI, HERE, Garmin, USGS

Date:	2025-10-20	Project #:	24-10412
Scale:	1:45,000	Drawing #:	7.6
Drawn By:	M. Partridge		
Checked By:	H. Mosher		





Nova Sustainable Fuels

Sulphide Bearing Slates



Assessment Area

Project Footprint

Project Infrastructure

Proposed Freshwater Pipeline Routes

Sulphide Bearing Slates

Transportation

Road

Unpaved Road

Utilities (Line)

Existing Pipeline

Water Features

Mapped Stream

Mapped Intermittent/Ephemeral Stream

Mapped Lakes and Rivers



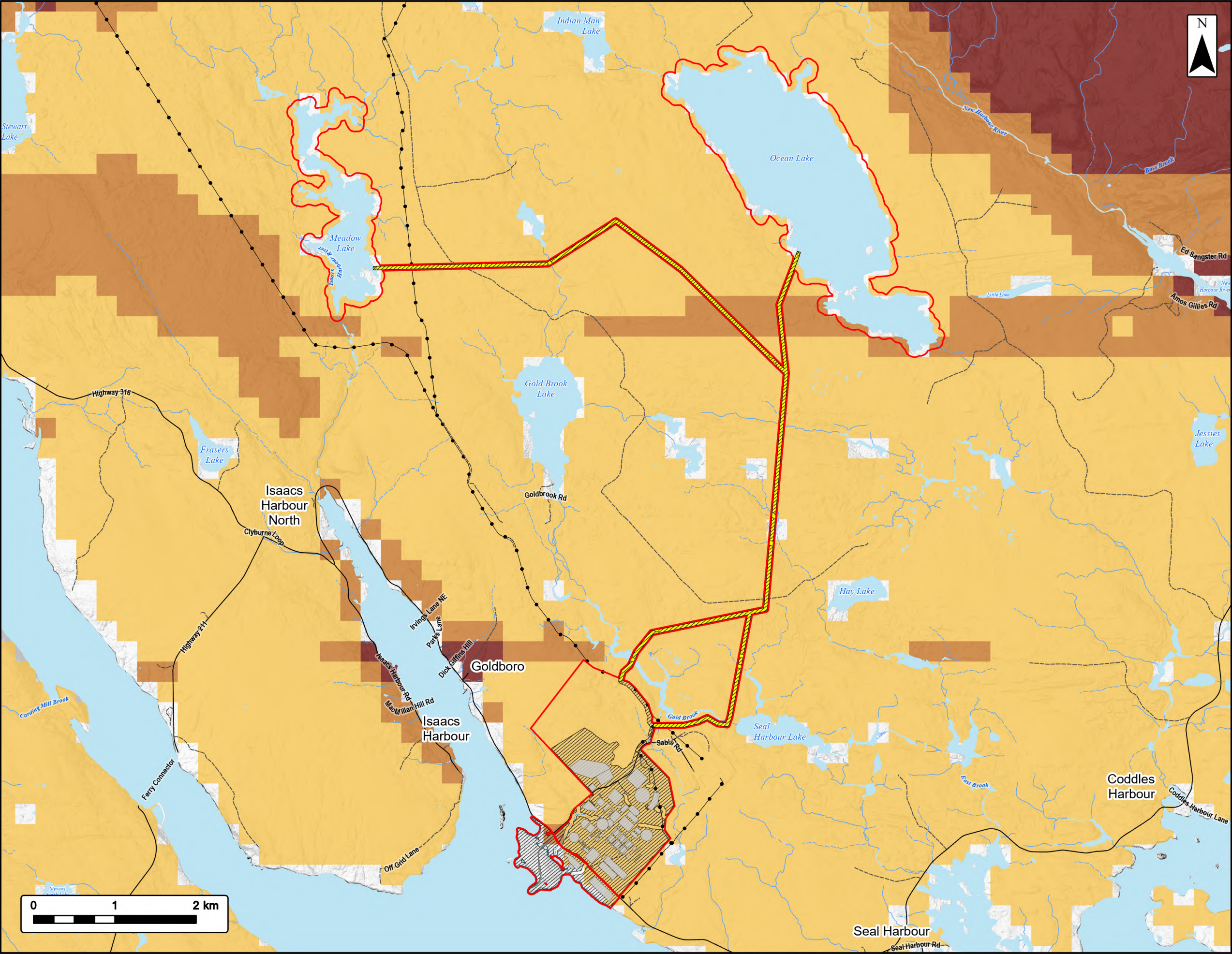
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Sources: Service Nova Scotia, GeoNOVA, SNSIS, NSNRR, ACCDC, IBA Canada, CNWI, HERE, Garmin, USGS

Date:	2025-10-20	Project #:	24-10412
Scale:	1:45,000	Drawing #:	7.7
Drawn By:	M. Partridge		
Checked By:	H. Mosher		



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Nova Sustainable Fuels

Radon Potential



Assessment Area



Project Footprint



Project Infrastructure



Proposed Freshwater Pipeline Routes



Radon Potential

High



Medium



Low

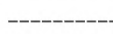


Transportation

Road

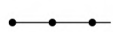


Unpaved Road



Utilities (Line)

Existing Pipeline



Water Features

Mapped Stream



Mapped Intermittent/Ephemeral Stream



Mapped Lakes and Rivers



Coordinate System: NAD 1983 UTM Zone 20N

Sources: Service Nova Scotia, GeoNOVA, SNSIS, NSNRR, ACCDC, IBA Canada, CNWI, HERE, Garmin, USGS

Date: 2025-10-20

Project #: 24-10412

Scale: 1:45,000

Drawing #:

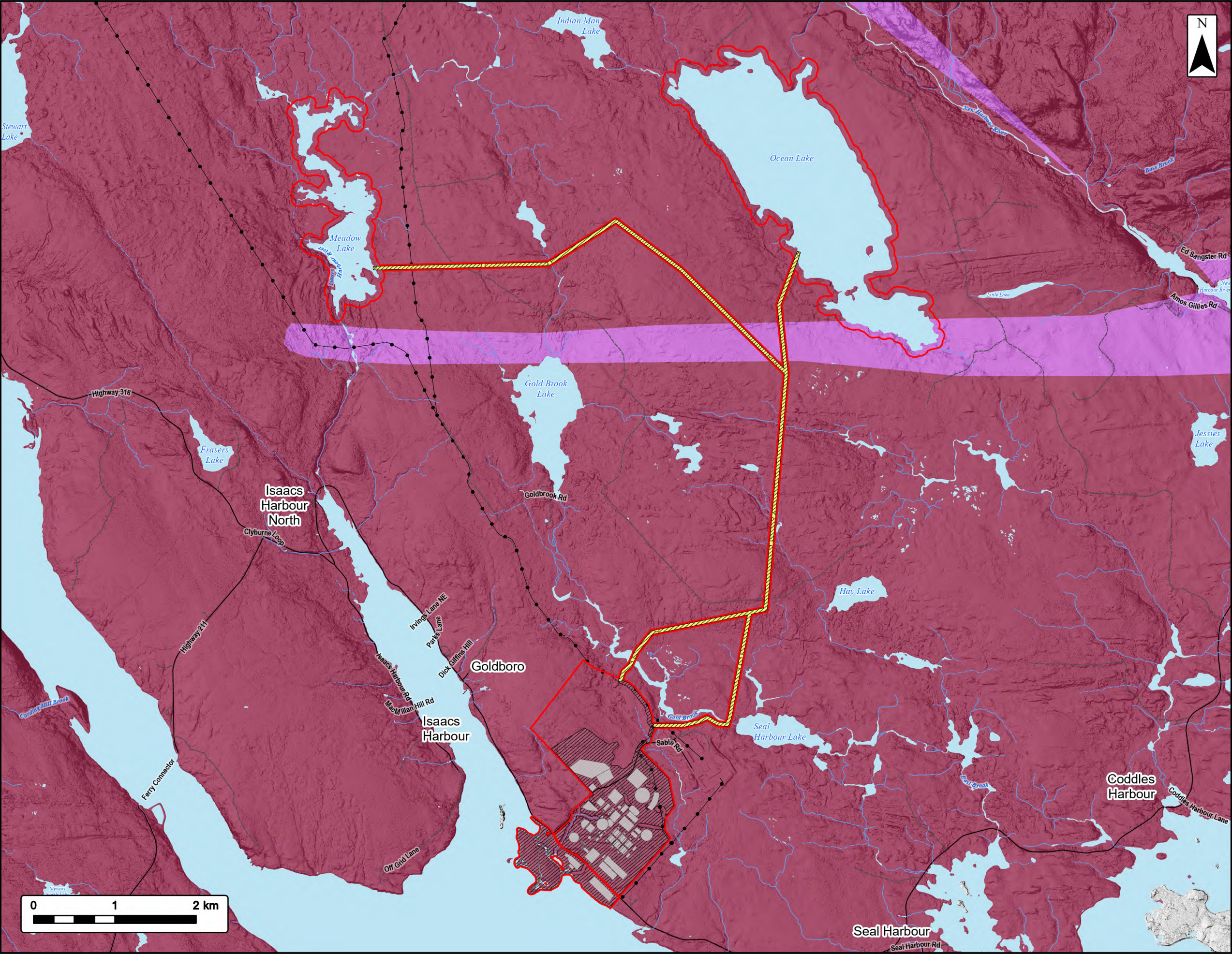
Drawn By: M. Partridge

7.8

Checked By: H. Mosher

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CONSULTING





Nova Sustainable Fuels

Arsenic Risk in Bedrock Aquifers



Assessment Area

Project Footprint

Project Infrastructure

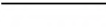
Proposed Freshwater Pipeline Routes

Arsenic Risk in Bedrock Water Wells

High Risk

Medium Risk

Transportation

Road

Unpaved Road

Utilities (Line)

Existing Pipeline

Water Features

Mapped Stream

Mapped Intermittent/Ephemeral Stream

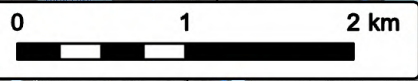
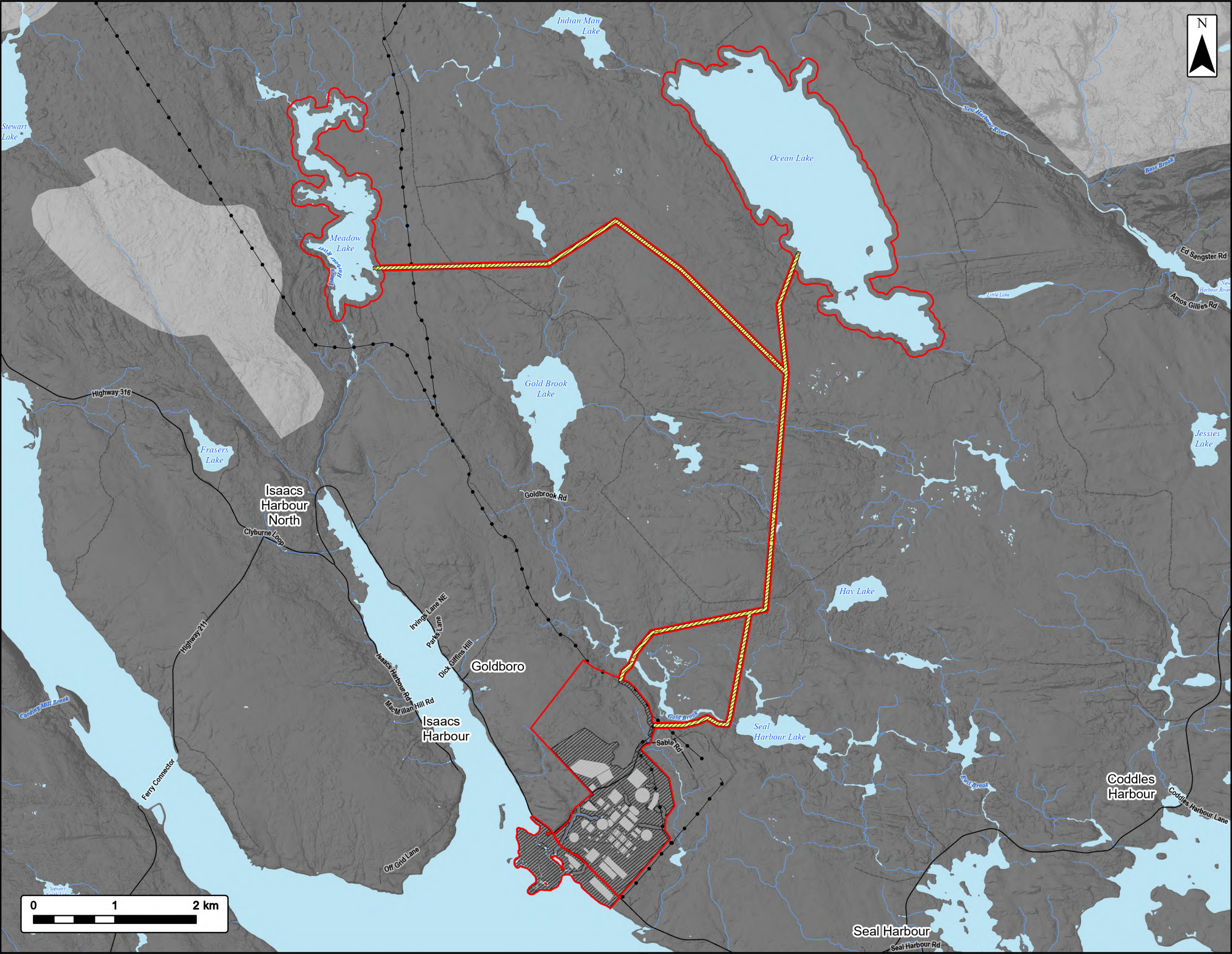
Mapped Lakes and Rivers



Coordinate System: NAD 1983 UTM Zone 20N
Sources: Service Nova Scotia, GeoNOVA, SNSIS, NSNRR, ACCDC, IBA Canada, CNWI, HERE, Garmin, USGS

Date:	2025-10-20	Project #:	24-10412
Scale:	1:45,000	Drawing #:	7.9
Drawn By:	M. Partridge		
Checked By:	H. Mosher		





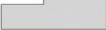
Nova Sustainable Fuels

Manganese Risk in Bedrock Water Wells



Assessment Area 

Project Footprint 

Project Infrastructure 

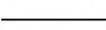
Proposed Freshwater Pipeline Routes 

Relative Risk of Manganese in Bedrock Well Water

High Risk 

Medium Risk 

Transportation

Road 

Unpaved Road 

Utilities (Line)

Existing Pipeline 

Water Features

Mapped Stream 

Mapped Intermittent/Ephemeral Stream 

Mapped Lakes and Rivers 



Coordinate System: NAD 1983 UTM Zone 20N Sources: Service Nova Scotia, GeoNOVA, SNSIS, NSNRR, ACCDC, IBA Canada, CNWI, HERE, Garmin, USGS

Date:	2025-10-20	Project #:	24-10412
Scale:	1:45,000	Drawing #:	7.10
Drawn By:	M. Partridge		
Checked By:	H. Mosher		

