



Nova Sustainable Fuels

Project Location



Assessment Area



Project Footprint



Project Infrastructure

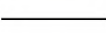


Proposed Freshwater Pipeline Routes

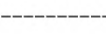


Transportation

Road

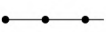


Unpaved Road



Utilities (Line)

Existing Pipeline



Water Features

Mapped Stream



Mapped Intermittent/Ephemeral Stream



Mapped Lakes and Rivers



Mapped Wetlands



Coordinate System: NAD 1983 UTM Zone 20N

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

Date: 2025-10-20

Project #: 24-10412

Scale: 1:60,000

Drawing #:

Drawn By: M. Partridge

2.1

Checked By: H. Mosher





Nova Sustainable Fuels

Project Footprint



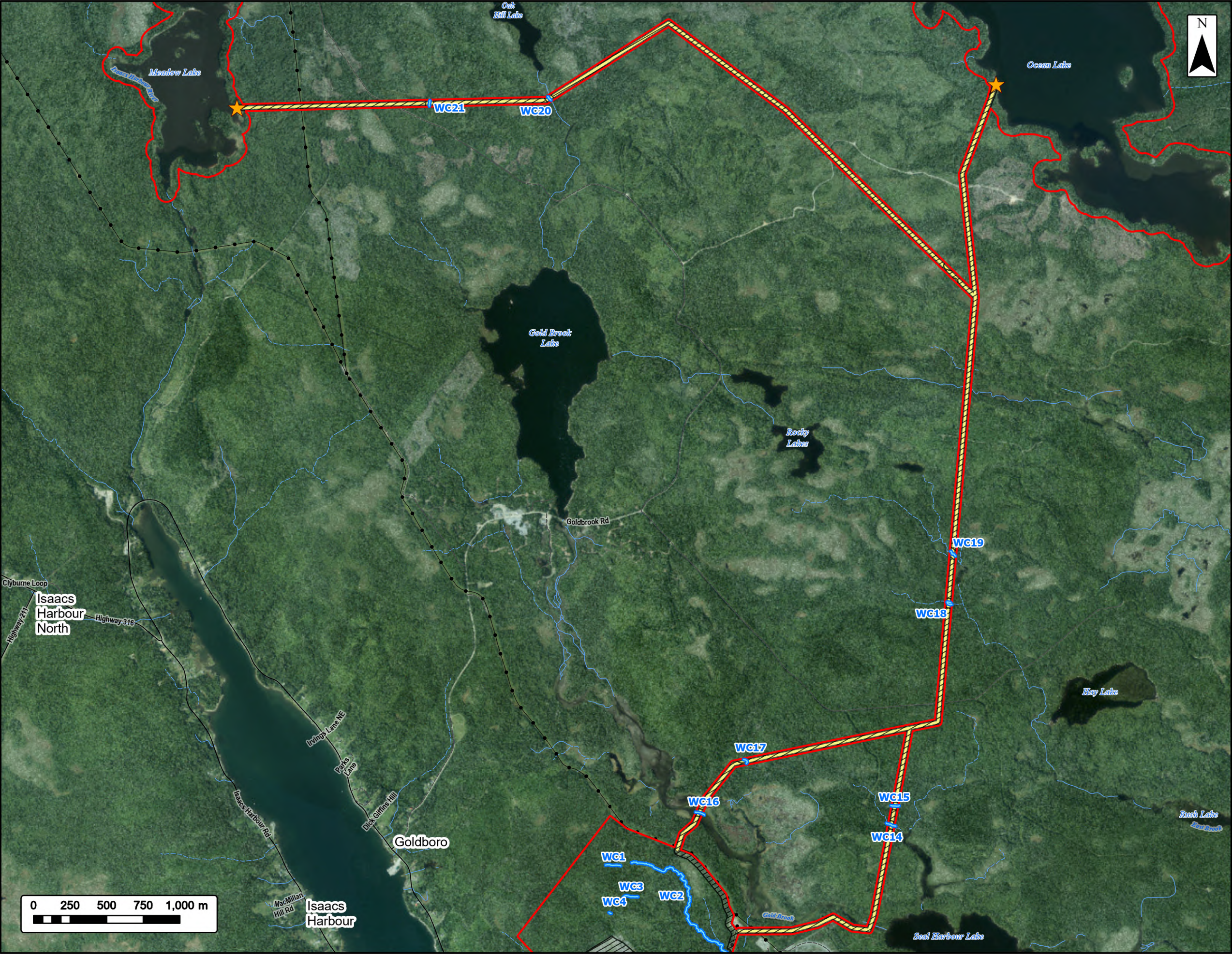
Assessment Area		Synthetic Paraffinic Kerosene Storage	
Project Footprint		Stormwater Retention Pond	
Sustainable Aviation Fuel (SAF) Production Facility			
Main Laydown Yard		Marine Components	
Workforce Housing Area		Marine Berth & Offloading Facility (MOF)	
Auxiliary Admin Buildings		Haul Road	
Concrete Batch Plant		New Subsea Pipeline	
Substation		Loading Hose	
Elevated Flare System		Mooring Ties	
Air Separation Unit		Field Assessed Watercourses	
Wastewater Treatment Plant		Bettys Cove Brook (Mapped Continuation of WC2)	
Raw Water Treatment Plant		Transportation	
Cooling Water System		Road	
Methanol Synthesis		Unpaved Road	
Auxiliary Systems (Dearator, Boiler)		Utilities (Line)	
Hydrogen Generation		Existing Pipeline	
Gasification		Water Features	
Biomass Handling		Mapped Stream	
		Mapped Intermittent/Ephemeral Stream	



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:	1:10,000	Drawing #:	2.2A
Drawn By:	M. Partridge		
Checked By:	H. Mosher		





Nova Sustainable Fuels

Project Footprint



Assessment Area

Project Footprint

Proposed Freshwater Pipeline Routes

Pumping Station Locations

Field Assessed Watercourses

Transportation

Road

Unpaved Road

Utilities (Line)

Existing Pipeline

Water Features

Mapped Stream

Mapped Intermittent/Ephemeral Stream

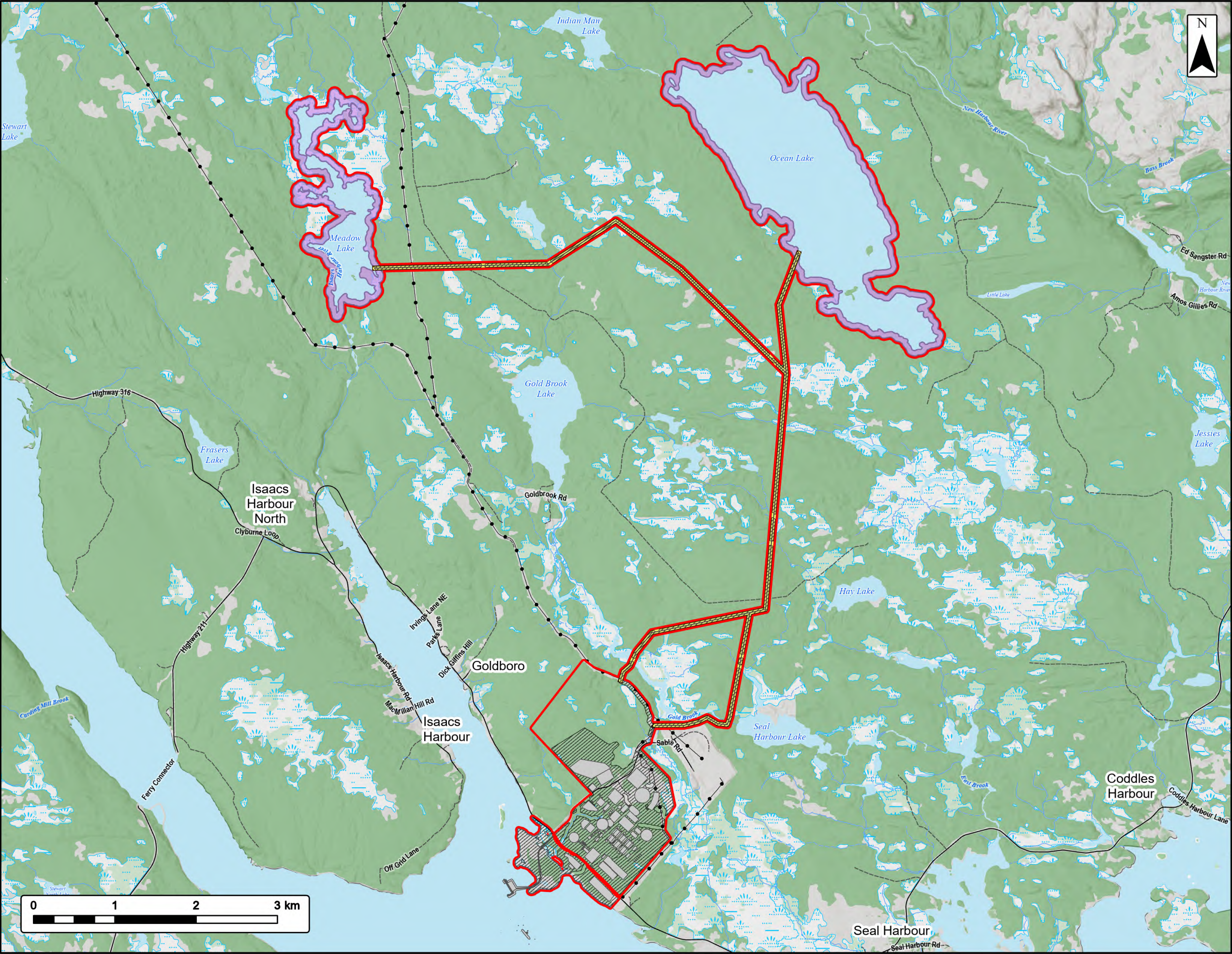


Coordinate System: NAD 1983 UTM Zone 20N

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

Date:	2025-10-20	Project #:	24-10412
Scale:	1:25,000	Drawing #:	2.2B
Drawn By:	M. Partridge		
Checked By:	H. Mosher		





Nova Sustainable Fuels

Project Assessment Area



Assessment Area

Area to be Assessed as Part of Permitting & Approvals Relating to Freshwater Withdrawal

Project Footprint

Project Infrastructure

Proposed Freshwater Pipeline Routes

Transportation

Road

Unpaved Road

Utilities (Line)

Existing Pipeline

Water Features

Mapped Stream

Mapped Intermittent/Ephemeral Stream

Mapped Lakes and Rivers

Mapped Wetlands



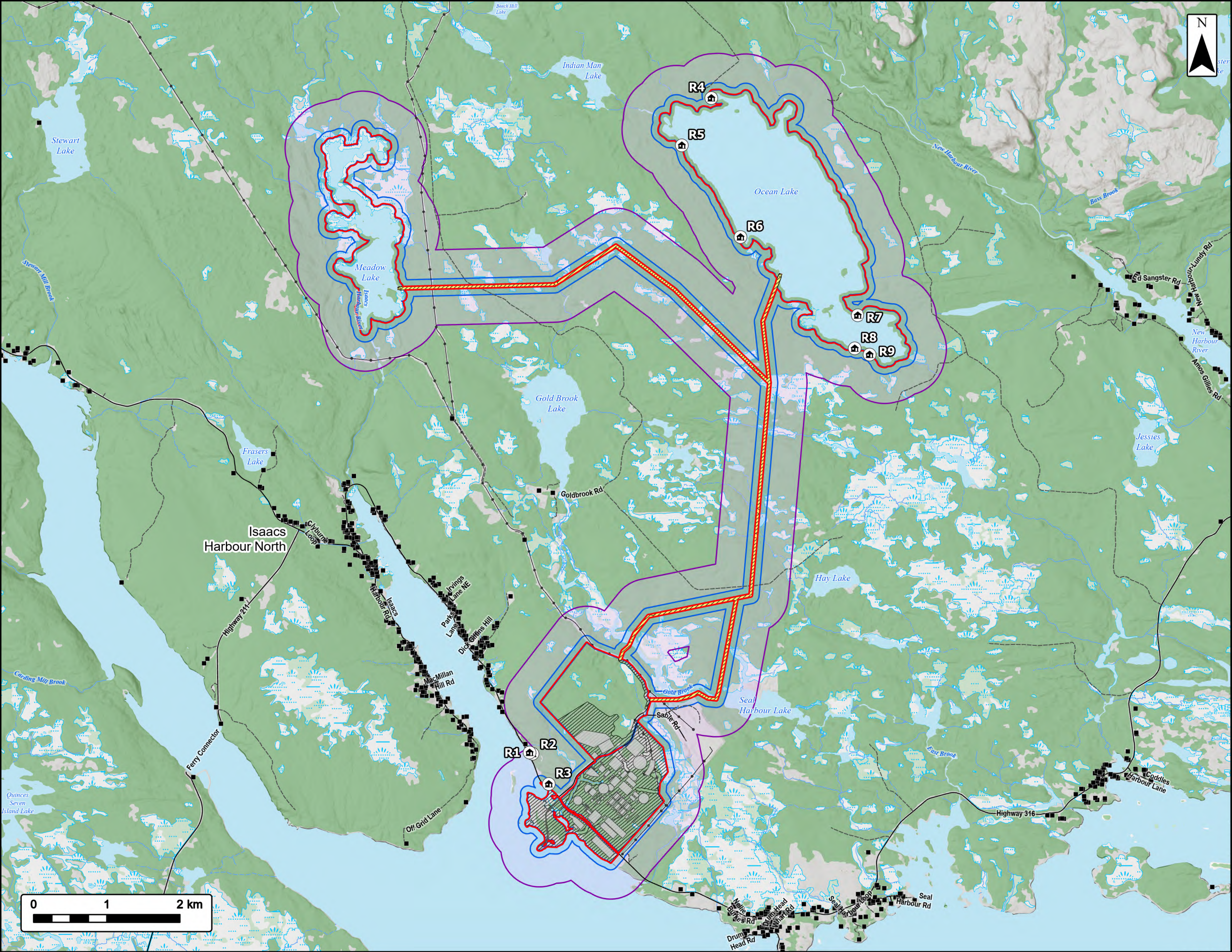


Coordinate System: NAD 1983 UTM Zone 20N

Sources: Esri, NASA, NGA, USGS, 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 #:	2.3
Drawn By:	M. Partridge		
Checked By:	H. Mosher		





Nova Sustainable Fuels

Receptors



Assessment Area

Project Footprint

Project Infrastructure

Proposed Freshwater Pipeline Routes

Assessment Area Buffers

100 m Buffer

500 m Buffer

Receptors within 500 m of Assessment Area

Receptors

Transportation

Road

Unpaved Road

Utilities (Line)

Existing Pipeline

Water Features

Mapped Stream

Mapped Intermittent/Ephemeral Stream

Mapped Lakes and Rivers

Mapped Wetlands



Coordinate System: NAD 1983 UTM Zone 20N

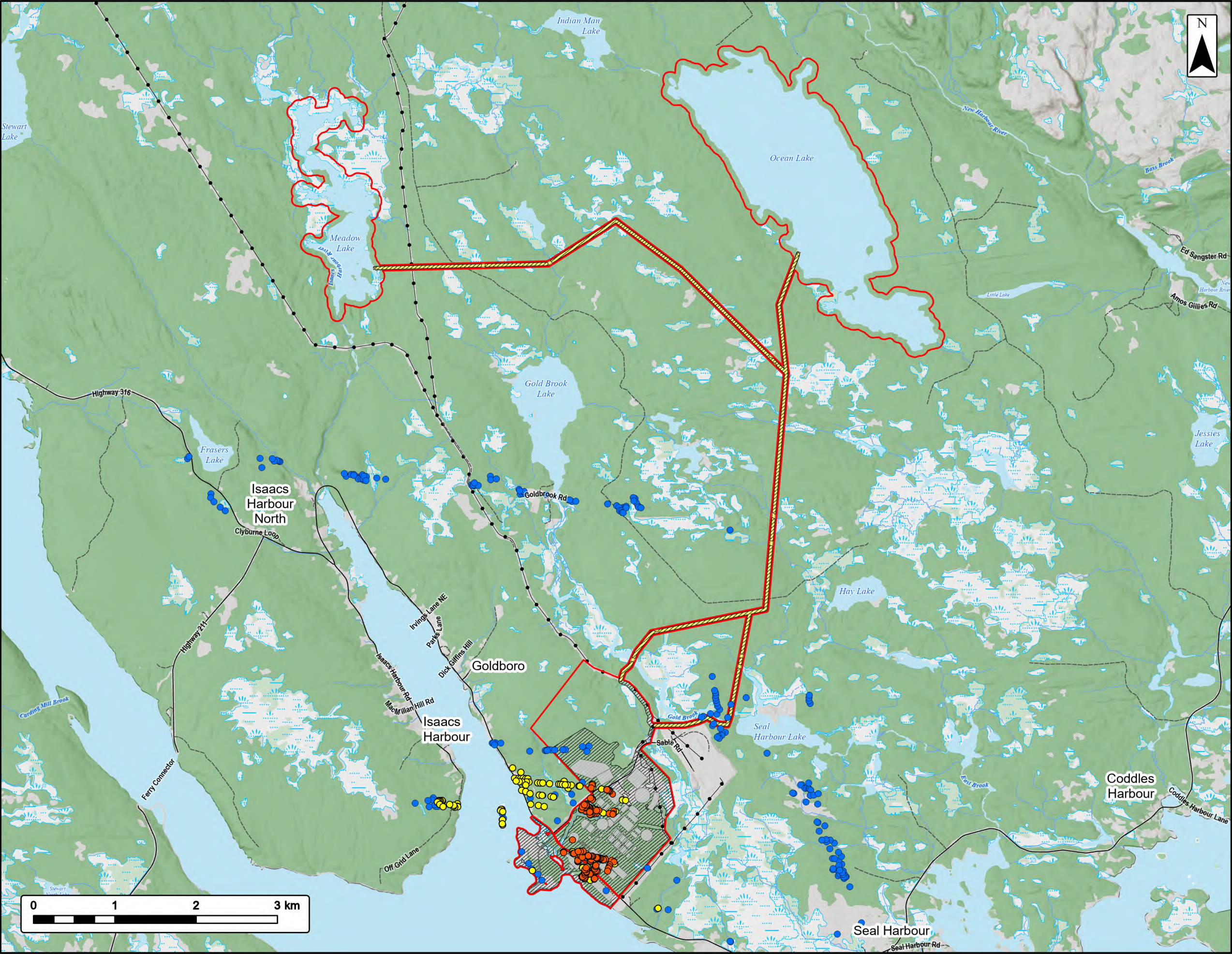
Sources: Esri, NASA, NGA, USGS, Service Nova Scotia, GeoNOVA, SNSIS, NSHRR, ACCDC, IBA Canada, CNWI, HERE, Garmin, USGS

Date:	2025-10-22	Project #:	24-10412
Scale:	1:50,000	Drawing #:	3.1
Drawn By:	M. Partridge		
Checked By:	H. Mosher		





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Nova Sustainable Fuels

Abandoned Mine Openings within the Assessment Area

Assessment Area

Project Footprint

Project Infrastructure

Proposed Freshwater Pipeline Routes

Provincial Abandoned Mine Openings Database

Golder Identified Abandoned Mine Openings

Strum Field Identified Abandoned Mine Openings

Transportation

Road

Unpaved Road

Utilities (Line)

Existing Pipeline

Water Features

Mapped Stream

Mapped Intermittent/Ephemeral Stream

Mapped Lakes and Rivers

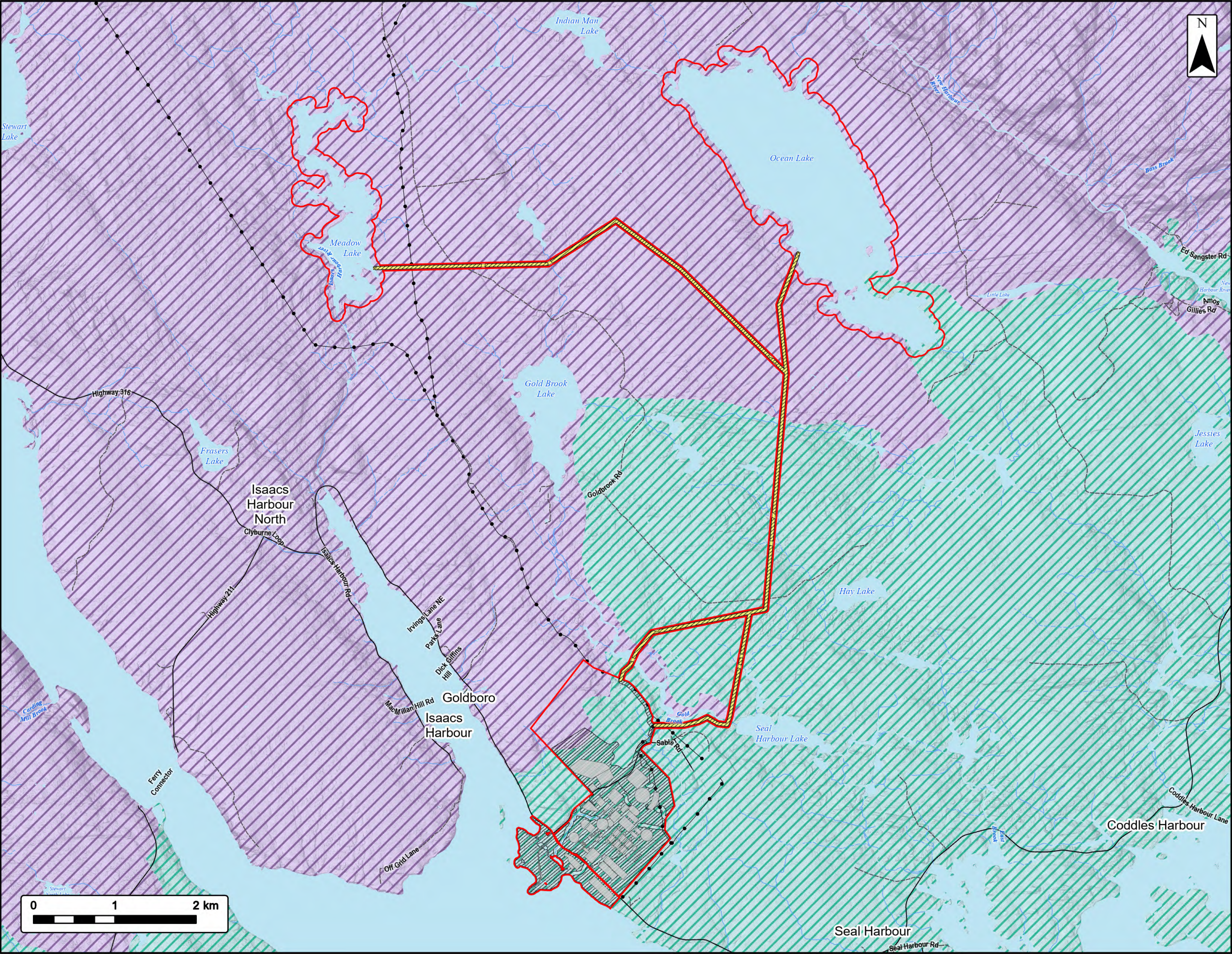
Mapped Wetlands

Coordinate System: NAD 1983 UTM Zone 20N

Sources: Esri, NASA, NGA, USGS, 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 #:	3.2
Drawn By:	M. Partridge		
Checked By:	H. Mosher		

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Nova Sustainable Fuels

Ecodistricts & Ecoregions



Assessment Area



Project Footprint



Project Infrastructure



Proposed Freshwater Pipeline Routes



Ecodistricts

Eastern Interior



Eastern Shore



Ecoregions

Eastern



Atlantic Coastal



Transportation

Road

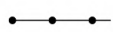


Unpaved Road



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

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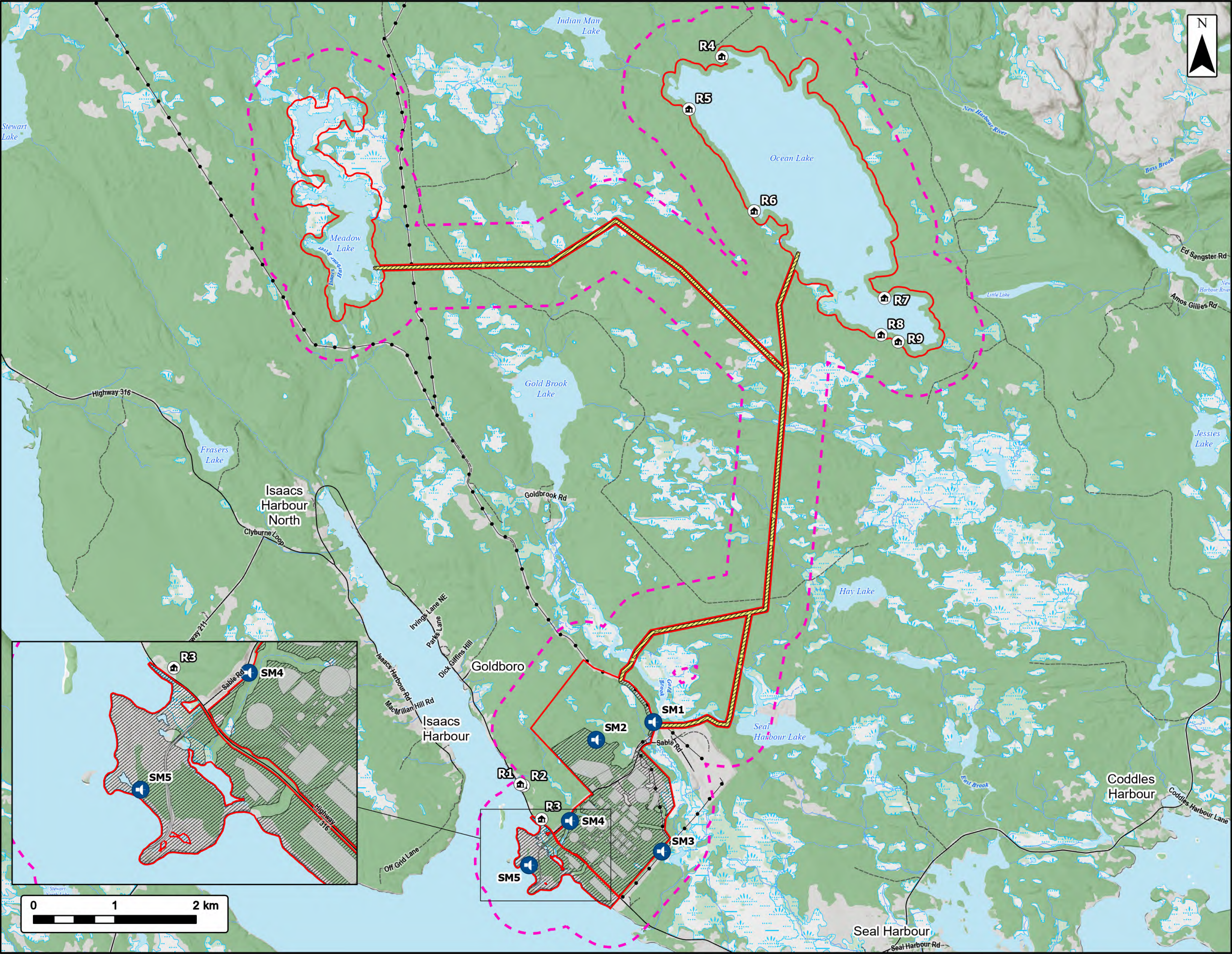
Drawn By: M. Partridge

7.1

Checked By: H. Mosher

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Nova Sustainable Fuels

Sound Monitor Locations

Assessment Area

Project Footprint

Project Infrastructure

Proposed Freshwater Pipeline Routes

500 m Buffer around Assessment Area

Baseline Sound Monitor Location

Receptors within 500 m of Assessment Area

Transportation

Road

Unpaved Road

Utilities (Line)

Existing Pipeline

Water Features

Mapped Stream

Mapped Intermittent/Ephemeral Stream

Mapped Lakes and Rivers

Mapped Wetlands

Coordinate System: NAD 1983 UTM Zone 20N

Sources: Esri, NASA, NGA, USGS, 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 #:	7.2
Drawn By:	M. Partridge		
Checked By:	H. Mosher		

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