



## Brunswick AD Workshop

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# Agenda

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- Viridi Introductions, Company Overview
- Project Goals and Impacts
- Plant Technology and Overview
- Areas of Focus
- Permit Status - State & Local
- Next Steps

# About Viridi



Viridi is one of the leading renewable natural gas project development teams in the North America.

Our team’s experience is diverse. We have designed, constructed and/or operated more than 10 RNG projects over the last 15 years and have supplied biogas upgrading equipment to over 40 RNG projects.

Our roots are in renewable energy & process safety = a lived experience of compliance, reliability and above all environmental & safety leadership.

We are national, but local. We hire from the communities in which we operate and are embedded in the local ecosystem - we take stakeholder engagement seriously



**SAFETY, QUALITY, RELIABILITY & COMPLIANCE**  
are not just words, they are how we do business.

# Green Energy and Benefits of the Project

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- BrAD is an important project for the local community and the State of Maine.
- Our commitment is to ensuring that this project is something that the residents of Brunswick and indeed all Mainers can be proud of
- Energy is important whether you believe in helping avert climate change or energy independence, projects like Brunswick are a critical part of the New England energy mix
- The project will create enough renewable natural gas to heat
  - >½ the single family homes in Brunswick
  - Equivalent to 1.3M gallons of #2 heating oil (428 truck loads)
  - Avoids 28,000 barrels of imported crude oil
- Squarely in line with the Town of Brunswick's best-in-class [Climate Action Plan](#) as drafted
- Maine and the Town of Brunswick have always been a leaders in resource utilization, reduction of environmental impact and the climate fight. Viridi is proud to be working on this project with you

# Addressing Community Concerns - PFAS

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- Viridi is working hand-in-hand through the permitting process with State of Maine to ensure that the facility meets or exceeds the State's world-class standards for handling of all materials.
- The facility is based on a closed-loop design that manages all inputs and outputs
- Viridi will qualify each biosolids generator to ensure compliance with any and all discharge requirements of Brunswick Sewer District
- Detailed plans will be followed for for Spill Prevention, Control and Countermeasures (SPCC) for:
  - All trucks delivering and removing materials from the facility
  - All process equipment and tanks

# Project Goals

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- Volume reduction of 85,000 tons per year of biosolids to less than 10,000 tons per year
  - Long term biosolids management outlet for Maine
    - Purpose built, with no plans for plant expansion
- Goal is minimal community impact - air, noise, odor and traffic
- Generation of 180,000 MMBTU/year of RNG injected into Maine Natural Gas
- Production of 2.2 MW of electricity, with an export of ~1 MW to MRRA
- Cleaning remaining water to meet Brunswick Sewer District standards

# Brunswick Positive Impacts

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- 5x full time jobs contributing >\$1M annual in employee costs
  - 100x temporary construction jobs
- Benefit to the Brunswick Sewer District
  - Reduced hauling costs, in addition to direct revenue from waste water disposal

Note: No modifications are required to BSD equipment to accept discharge
- Electricity export to the local grid
- Renewable natural gas export to Maine Natural Gas
- Utilization of multiple local resources
  - Local firms & Tradescraft - general construction, pipefitter, electrical talent



# Brunswick - Basic Plant & Operations Overview



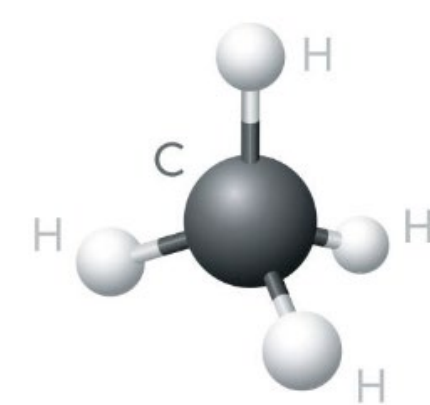
## Brunswick AD Facility

3x inputs:

Biosolids  
+  
septage

natural gas  
(MNG)

AD (Digester)  
produces Biogas



CHP (2x)  
Heat and Power

RNG

Power (MRRA)

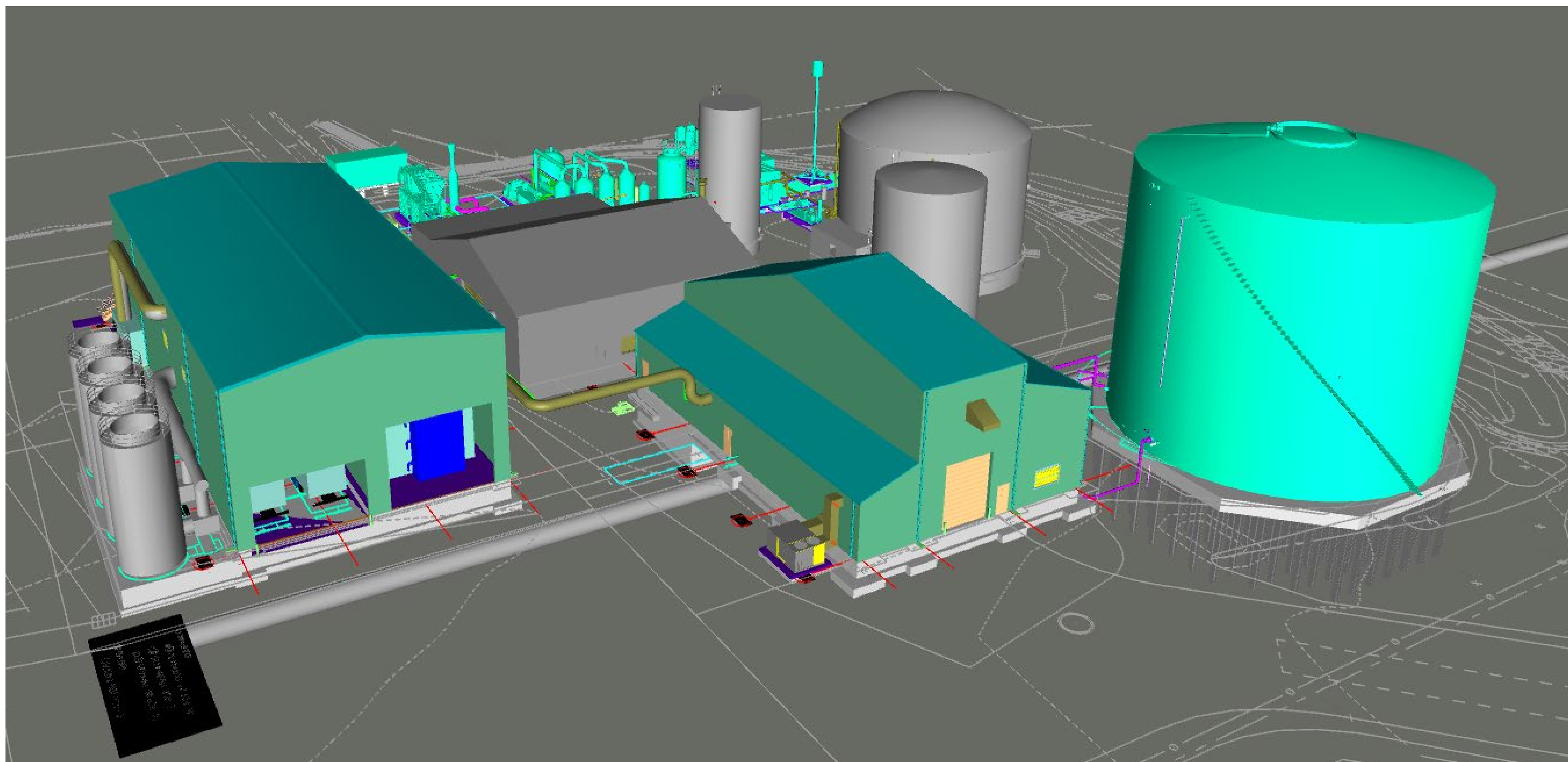
Process Liquid (BSD)

Dried Solids

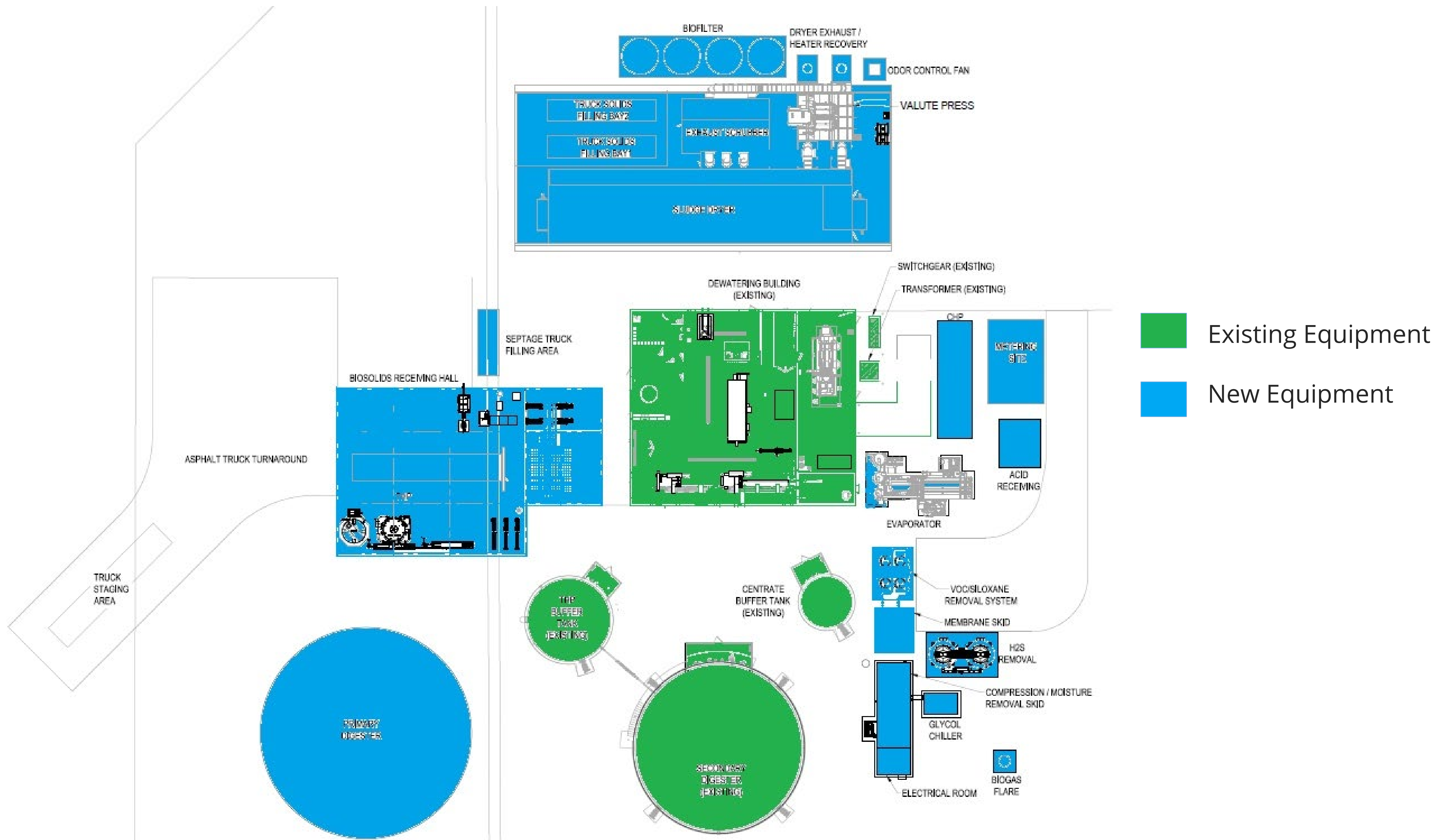
4x outputs:



# Viridi Facility 3D Model Rendering



# Brunswick General Arrangement





# Traffic Management

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## Viridi Plant Construction (Spring 2025 through Summer 2026)

- Limited truck traffic Monday through Friday for equipment deliveries, cranes etc.

## Normal Operation - Deliveries (Starting Summer 2026)

- Up to 15 trucks per day of WWTP biosolids and septage Monday through Friday, limited traffic on Saturday morning as well

## Normal Operation - Residuals Load Out (Starting Spring 2026)

- 1-2 trucks per day Monday through Friday

# Truck Route - Path A (current) & Path B (late 2025)





# Facility - Odor Management

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- Fully enclosed receiving and solids load out areas, with 6 full air exchanges per hour to minimize ambient odors.
- All building vents will be routed to a newly designed and engineered biofilter system, upsized for the additional building volumes.
- No outdoor handling of any biosolids materials



# Addressing Community Concerns - Odor Management





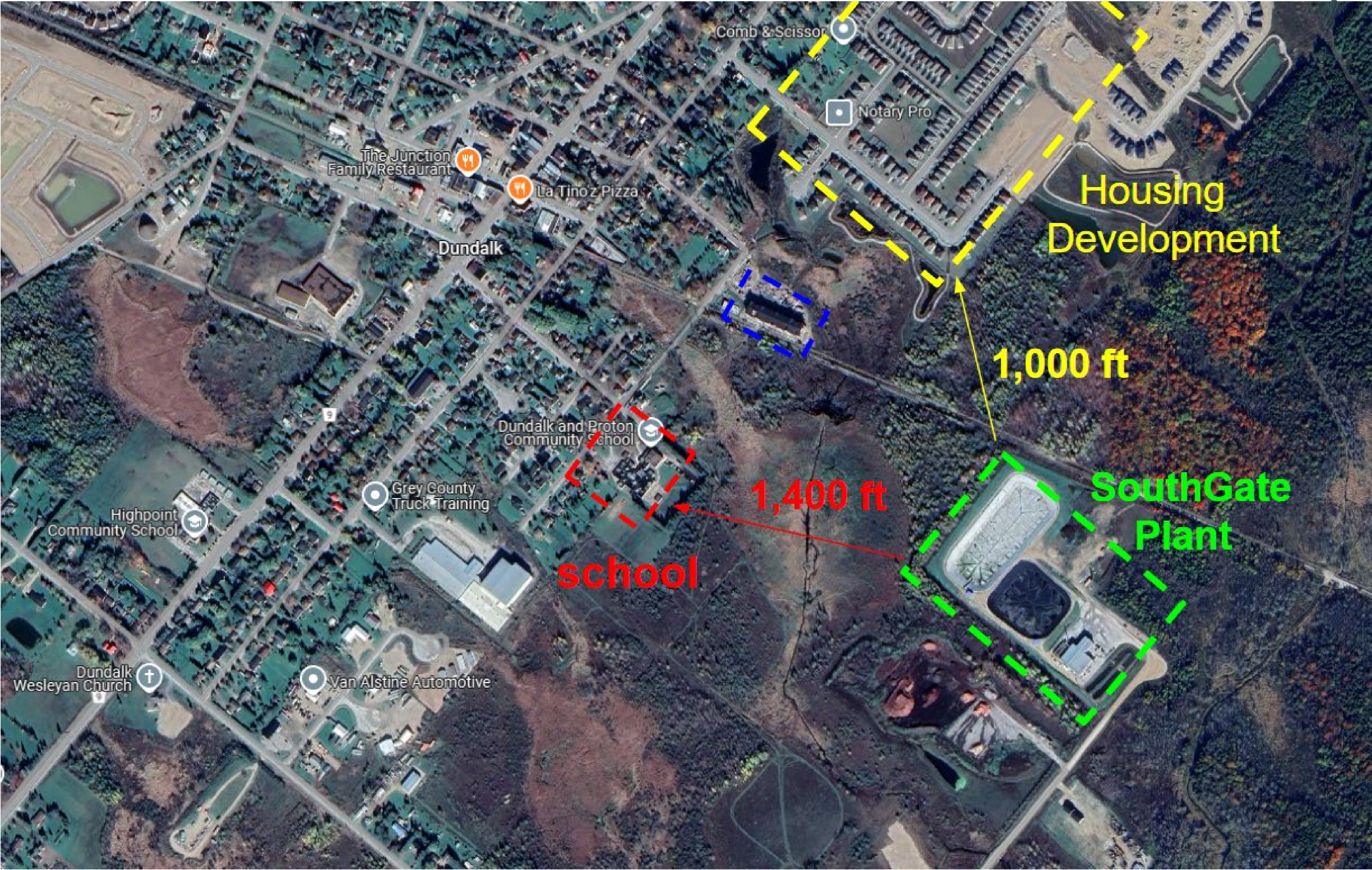
# Proven Biosolids Technology - Active Reference Projects



Southgate, Ontario



# Southgate - Operating Biosolids Facility





# Primary Facility Permits - Status

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- Air Permit Amendment
  - Formally Submitted, in process with Maine DEP
  
- Solid Waste License Amendment
  - Completed, Ready to Submit to Maine DEP
  
- Brunswick Sewer District
  - Permit Modification completed, Waiting to be Issued
  
- Contract Zone
  - Town of Brunswick

# End Of Presentation

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Viridi appreciates the opportunity to present our Vision for the Project

Looking forward to defining the next steps and collaborating  
on the Contract Zone Permit Application with the Town of Brunswick