

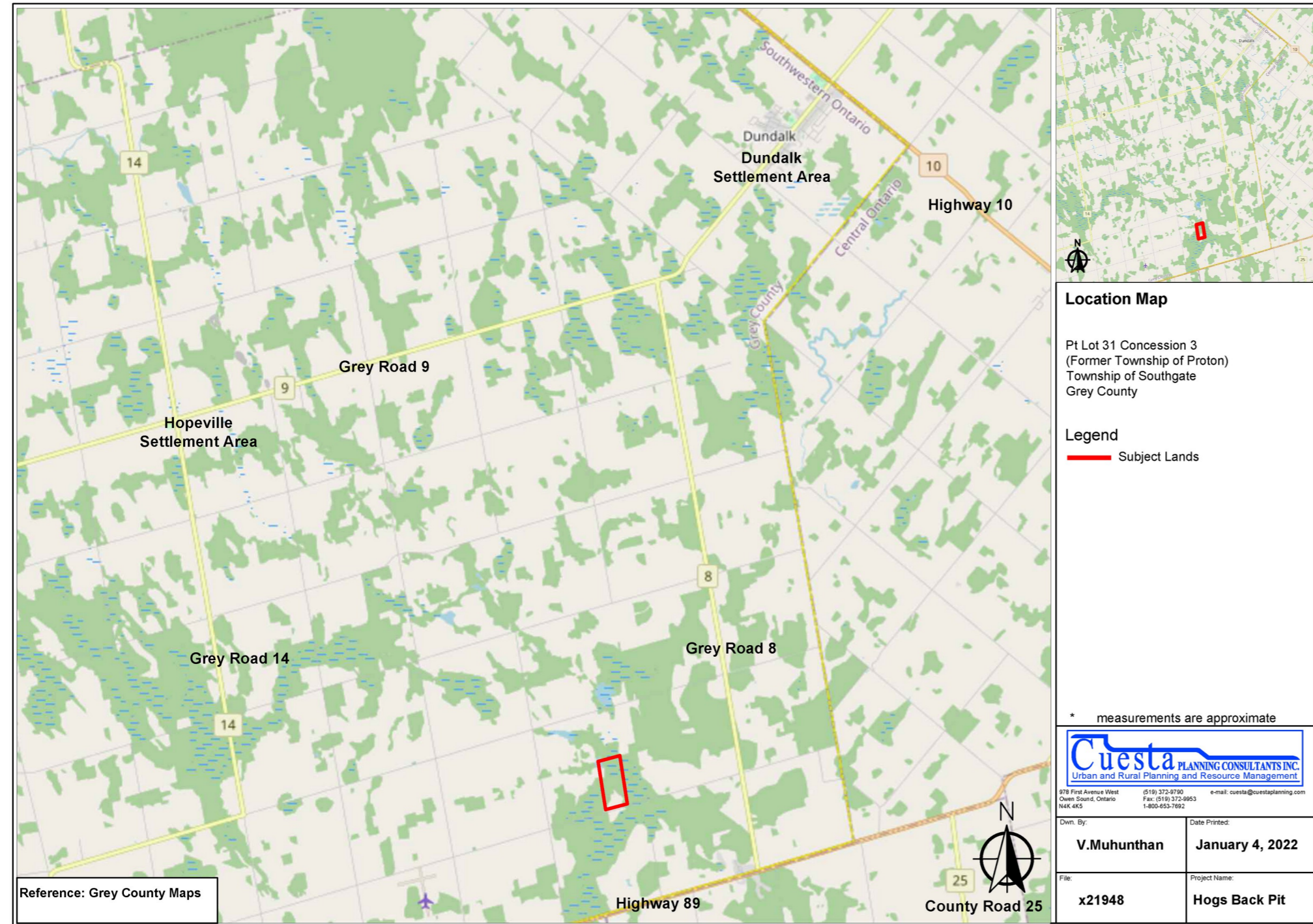
HOG'S BACK PIT

Proposed Gravel Pit above the
Maximum Predicted Water Table

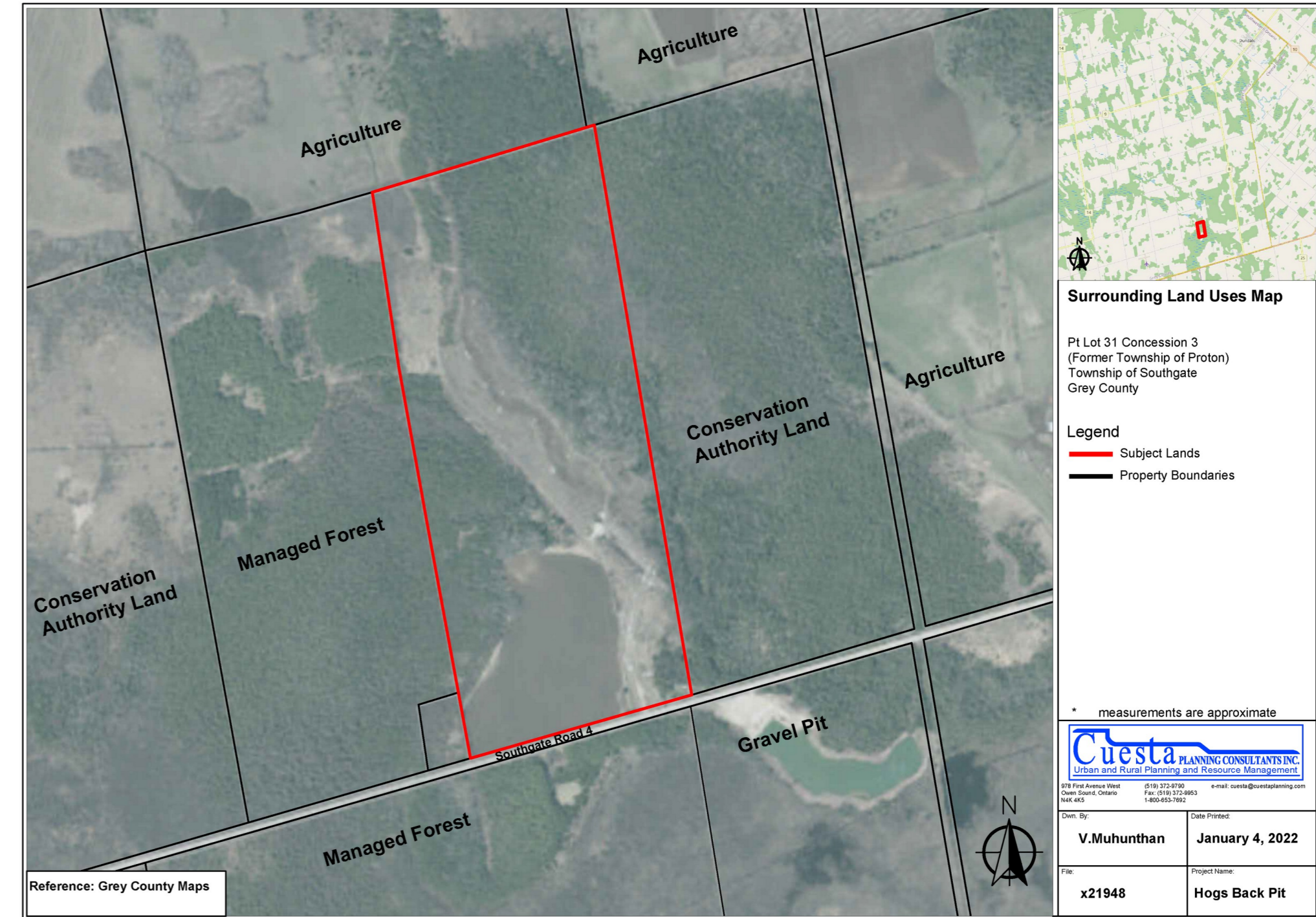
Part Lot 31, Concession 3
Former Township of Proton
Township of Southgate
County of Grey



LOCATION & SURROUNDING LAND USE



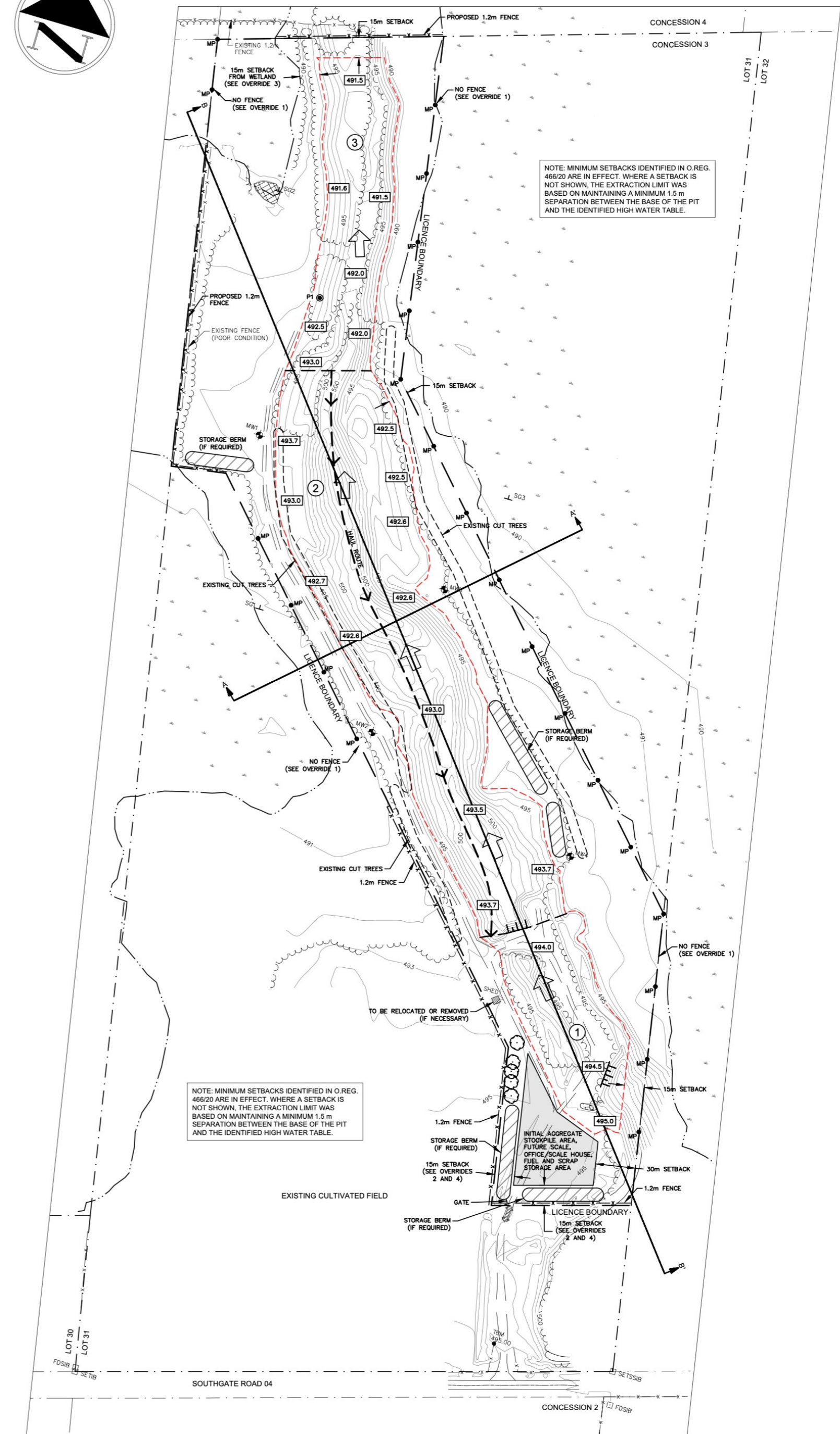
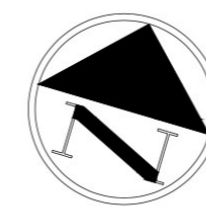
Location



Surrounding land use

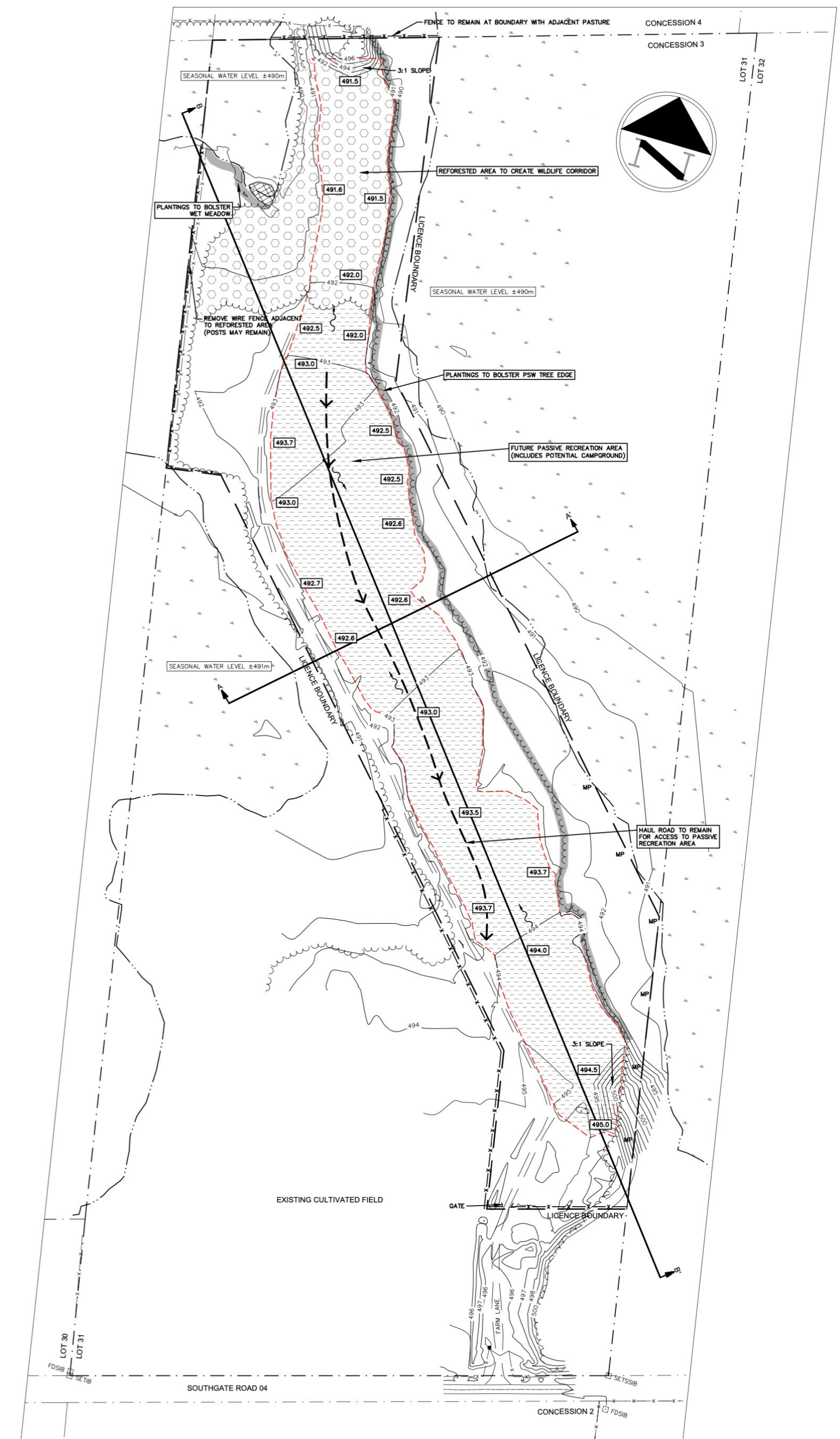
OPERATIONS

- Class 'A,' Pit with Annual limit of 100,000 tonnes
- Licensed Area - 13.38 ha.
- Extraction Area - 5.77 ha.
- Extraction Depth - 1.5 m. Above the Maximum Predicted Water Table
- Extraction will proceed South to North in 3 Phases
- Operations will be 7am-6pm weekdays only
- Licensed boundary is 120m from municipal road



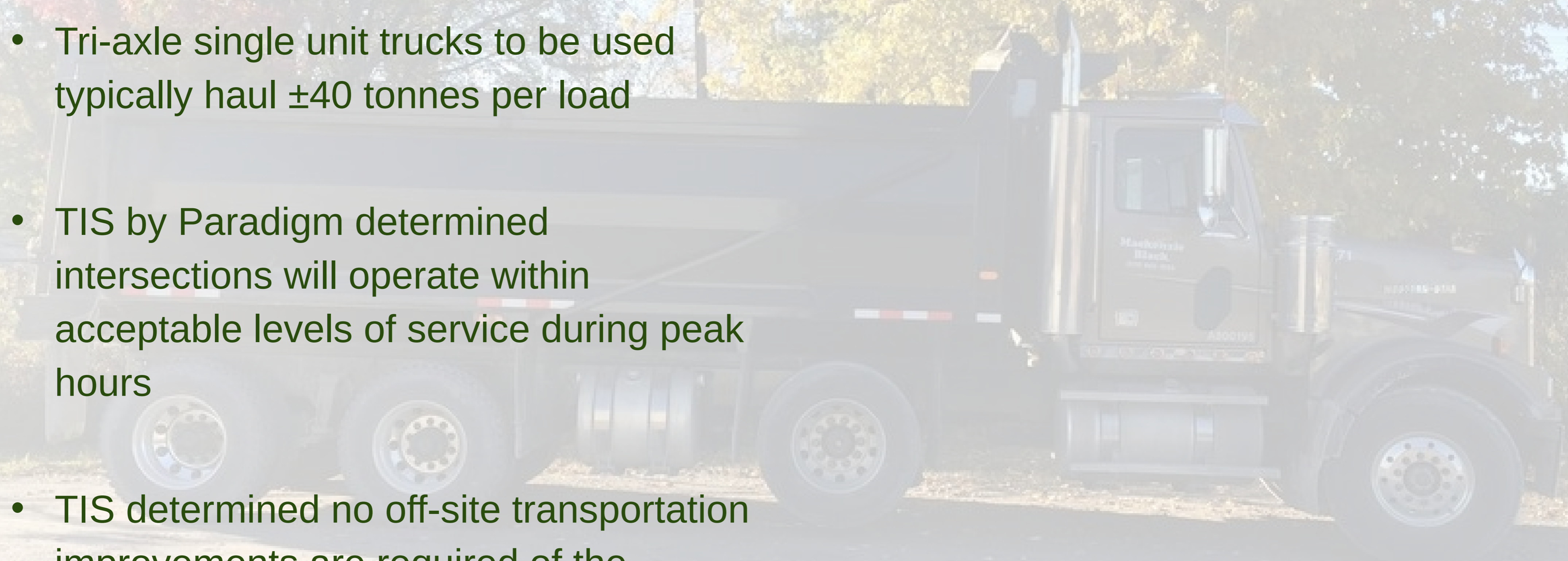
REHABILITATION

- Progressive Rehabilitation
- Southern portion of Site to be rehabilitated to a natural state for the purposes of a passive recreational after use
- Northern portion of Site to be reforested to create a wildlife corridor between the east and west PSWs
- Rehabilitation will result in a net gain of biodiversity at the Site



HAUL ROUTE

- Proposed haul route is East on Southgate Road 4 to Grey Road 8 & then South to Provincial Highway 89
- Tri-axle single unit trucks to be used typically haul ± 40 tonnes per load
- TIS by Paradigm determined intersections will operate within acceptable levels of service during peak hours
- TIS determined no off-site transportation improvements are required of the proposal



An aerial photograph of a river winding through a dense, green forest. The river is the central focus, with its banks covered in thick trees. The overall scene is vibrant and natural.

LAND USE CONSIDERATIONS: PROVINCIAL INTERESTS

2020 Provincial Policy Statement (PPS)

Section 2.0 Wise Use and Management of Resources

Ontario's long-term prosperity, environmental health, and social well-being depend on conserving biodiversity, protecting the health of the Great Lakes, and protecting natural heritage, water, agricultural, mineral and cultural heritage and archaeological resources for their economic, environmental and social benefits.

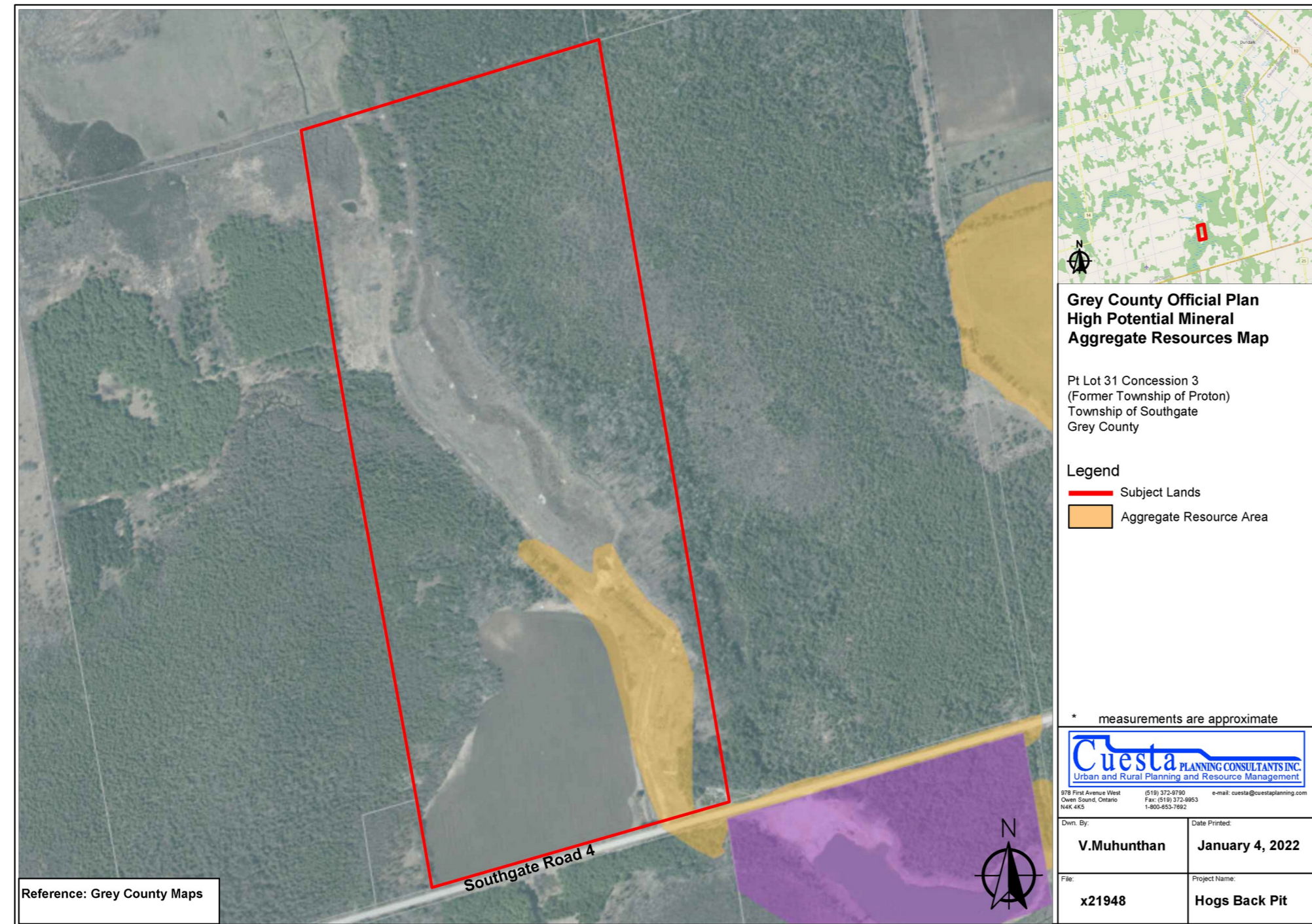
MINERAL AGGREGATE RESOURCES

2020 PPS Section 2.5 Mineral Aggregate Resources

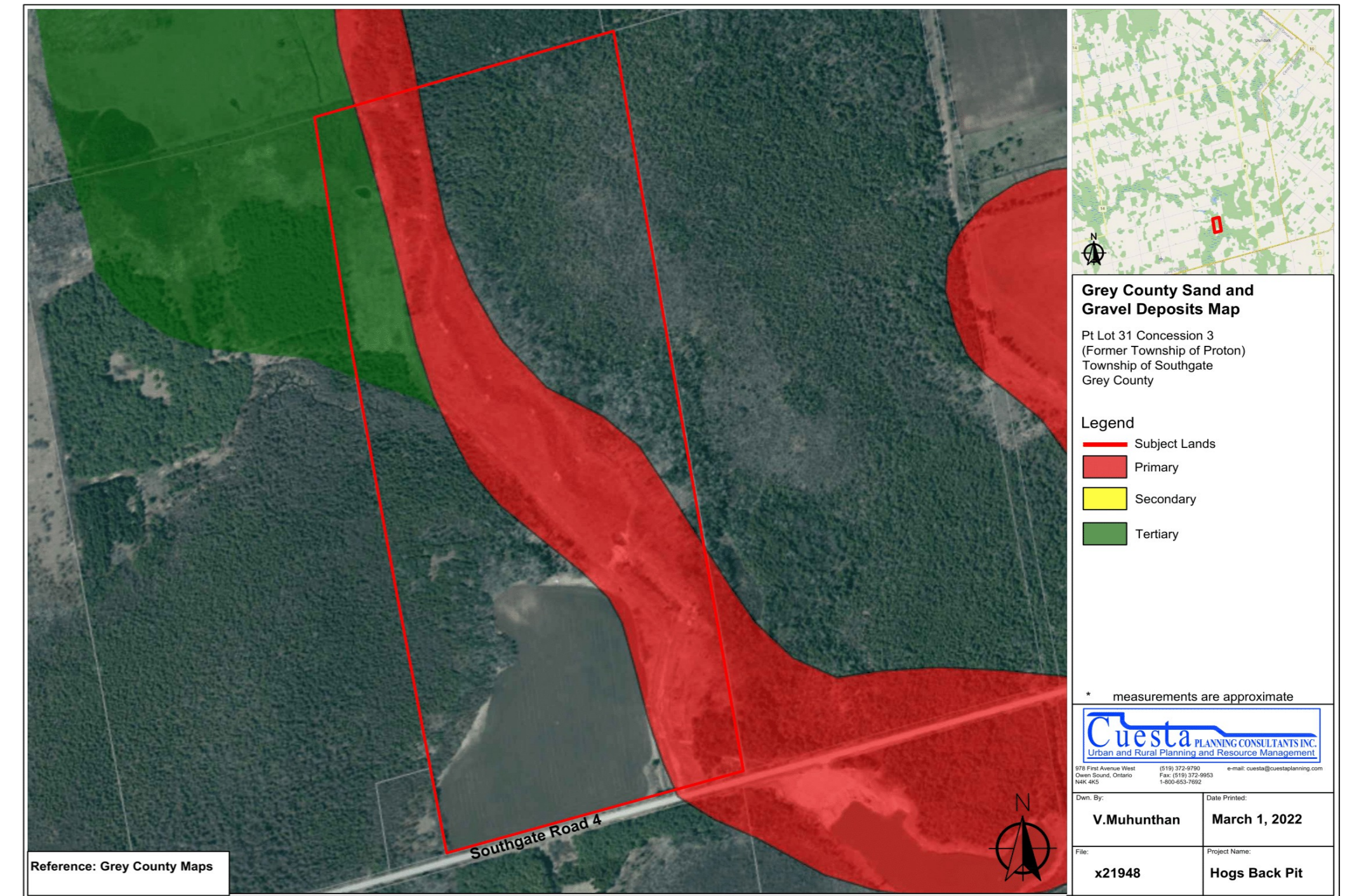
2.5.1 Mineral aggregate resources shall be protected for long-term use and, where provincial information is available, deposits of mineral aggregate resources shall be identified.

- ARIP 51 notes 2 eskers in this area of the Township, contain virtually all of former Proton's possible resources for crushable aggregate
- The County of Grey & Township mapping identify a Primary deposit on the Site
- Sampling confirmed findings of ARIP 51 that a high-quality resource is located within the Site

MINERAL AGGREGATE RESOURCES cont.



Aggregate Resource Area



Gravel Deposits

(Source: County of Grey)

AGRARIAN RESOURCES

2020 PPS 2.3 Agriculture

2.3.1 Prime agricultural areas shall be protected for long-term use for agriculture. Prime agricultural areas are areas where prime agricultural lands predominate. Specialty crop areas shall be given the highest priority for protection, followed by Canada Land Inventory Class 1, 2, and 3 lands, and any associated Class 4 through 7 lands within the prime agricultural area, in this order of priority.

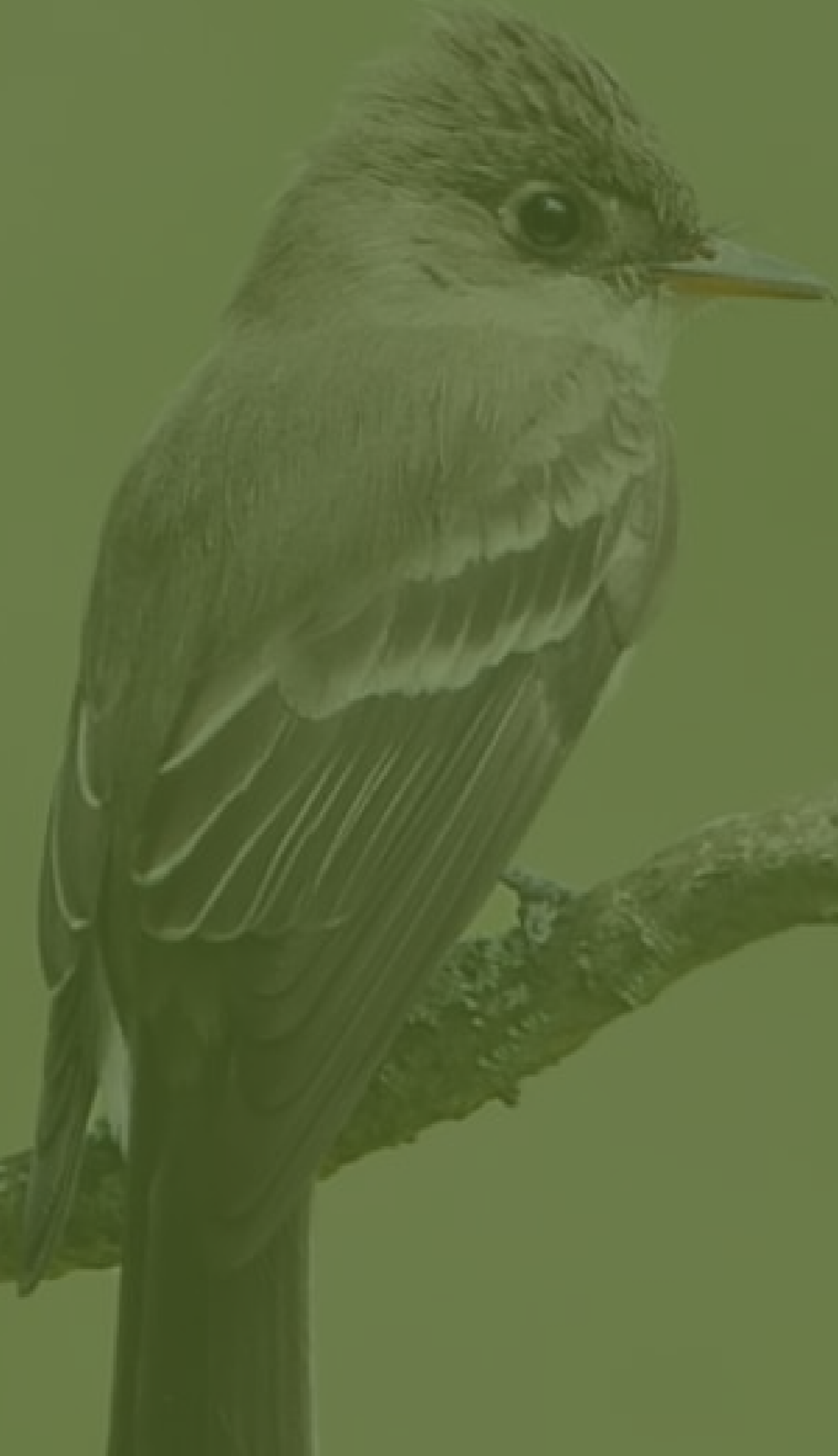


NATURAL HERITAGE RESOURCES

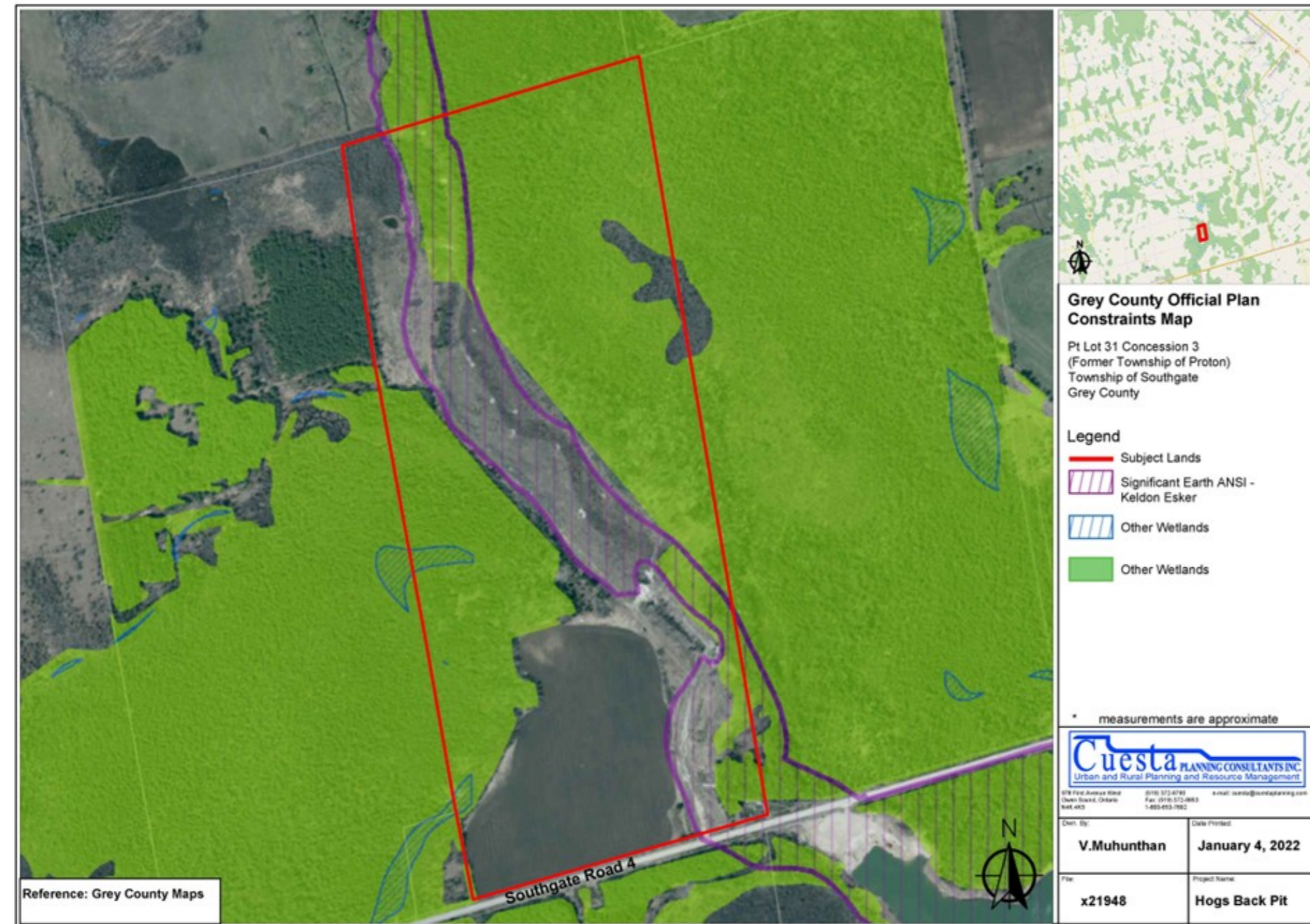
PPS 2020

2.1 Natural Heritage

*2.1.1 Natural features and areas
shall be protected for the long term.*



NATURAL HERITAGE RESOURCES cont.



Constraints Mapping

(Source: County of Grey)

- SAAR NETR confirmed significant wetlands, woodlands & habitat at or near the Site
- NETR concluded extraction of portion of esker can occur without negative impact with setbacks & mitigation implemented at the Site
- NETR notes there is a question whether portion of esker on the Site constitutes the “best representative Earth Science ANSI” in planning area
- NETR provides robust Rehab Plan

CULTURAL HERITAGE RESOURCES

2020 PPS 2.6 Cultural Heritage and Archaeology

PPS2020

2.6 Cultural Heritage and Archaeology

2.6.2 Development and site alteration shall not be permitted on lands containing archaeological resources or areas of archaeological potential unless significant archaeological resources have been conserved.

- Scarlett Janasus Archaeology Inc. completed Stage 1 & 2 Archaeological Assessments at the Site
- On-site field investigation determined extraction area did not contain any item of cultural or archaeological significance
- Letter of acceptance from MTSC received in November of 2019

WATER RESOURCES

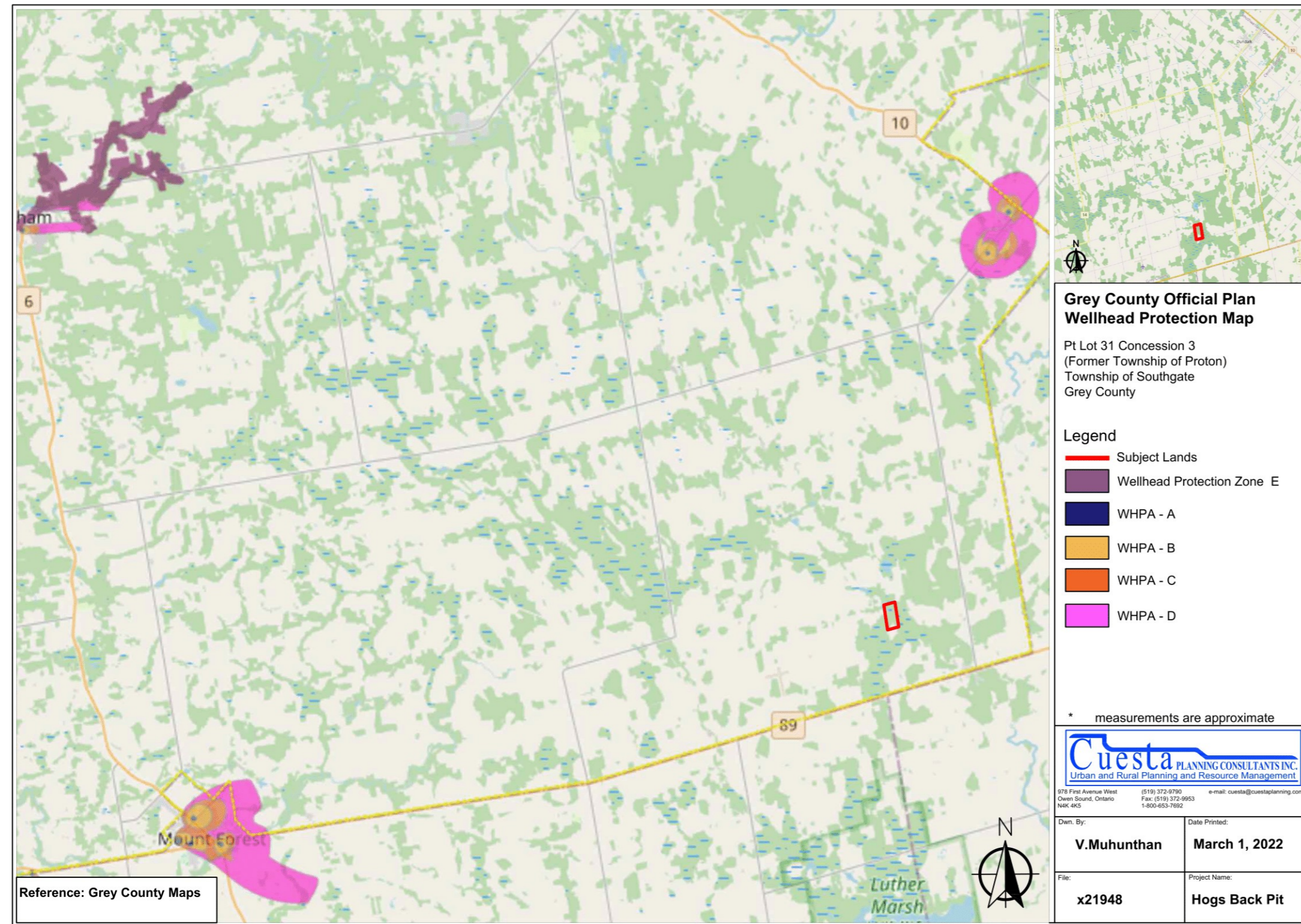
2020 PPS 2.2 Water

2.2.1 Planning authorities shall protect, improve or restore the quality and quantity of water by:

b) minimizing potential negative impacts, including cross-jurisdictional and cross-watershed impacts

- Hydrogeological Assessment completed by GSS to review any potential impacts on ground and surface water resources and establish the Maximum Predicted Water Table at the Site
- 4 monitoring wells installed at the Site and 3 staff gauges installed at or near the Site to monitor surface water
- Monitoring conducted from November 2020 to November 2021

WATER RESOURCES cont.

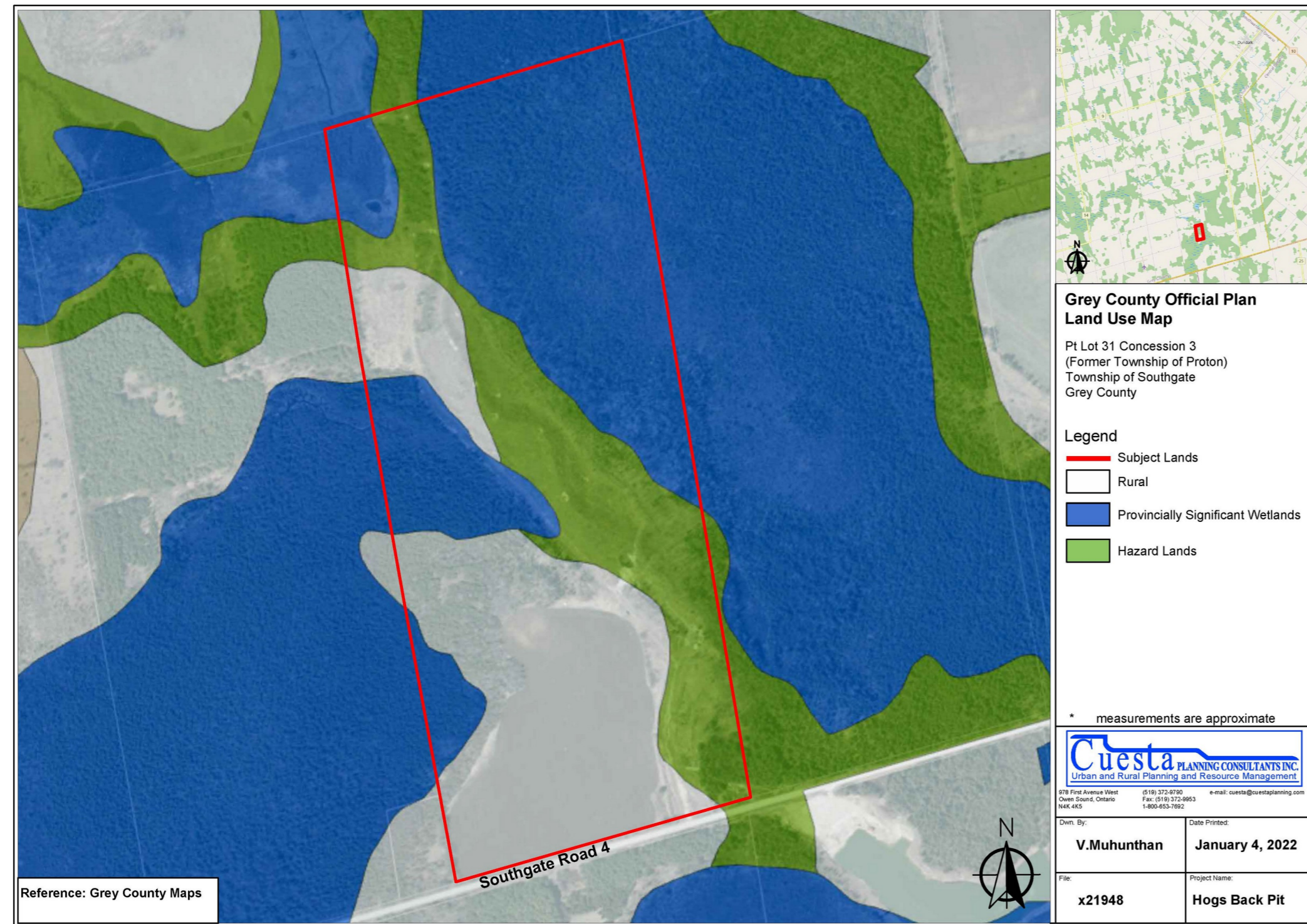


Wellhead Protection Area(s) (Grey County)

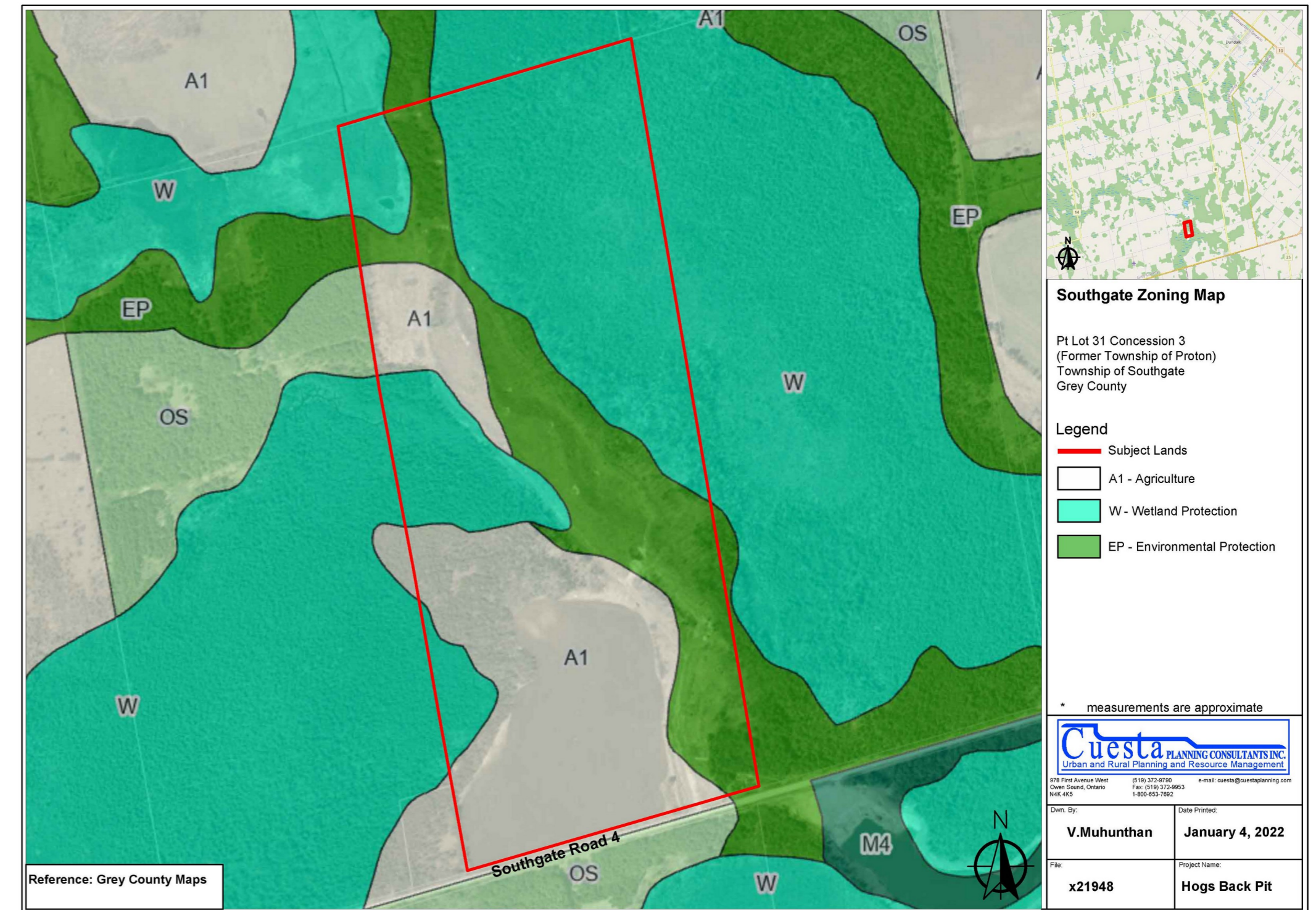
GSS Assessment Findings:

- Groundwater flows in a south to north direction at the Site
- Maximum depth of extraction established at 495 masl at south end of Site & 491.5 masl at the north end
- As operation will occur above the water table and there are no water supply wells within 500 metres of the Site, no direct effects of groundwater resources are expected
- No potential for the pit to negatively affect the water levels in the PSWs identified

CURRENT POLICY AND REQUIRED APPROVALS



Land Use Schedule (Grey County)



Zoning By-Law Excerpt (Township of Southgate)



Next steps

ARA Public Information Session - August 2nd

Questions?