Mak, Jay

From: Bruce Shewfelt <shewfeltpbs@outlook.com>

Sent: August 1, 2023 5:47 PM

To: Mak, Jay

Cc: Russell Jonk; David Whetter

Subject: RE: Swansfleet Alliance - Irrigation Project (6173.00)

Attachments: eap 97.pdf; Ag Class Groupings for Wetland Determination.pdf

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ATTENTION: ce courriel provient d'un expéditeur externe. Ne cliquez sur aucun lien et n'ouvrez pas de pièce jointe, excepté si vous connaissez l'expéditeur.

Hello Jay.

Just an update.

- 1. We are gearing up for HRIA for irrigation pipeline routes.
- 2. With regard to pivots and wetlands. Swansfleet Alliance has experience with working around wetlands (e.g., the Class 5 land along the northern edge of the section (e.g., start of gully through 17-9-9 W1)). Swansfleet would implement one of two approaches. A windshield wiper approach to running the pivot. This is employed where it is not possible to traverse the wetland and the pivot reverses to avoid it. The second approach is a small footprint land bridge used to run the pivot past the wetland. In this case Varriable Rate Irrigation technology is utilized to turn the pivot "off" during traversing the wetland and prevent any direct interaction of pivot water / fertigation with the wetland.
- 3. Next Gen Drainage Solutions are preparing an application for tile drainage (and surface drainage) of the pertinent ((e.g., imperfectly drained) soils on this section). This will include a submission to Drainage and Water Licensing Branch. PBS Water Engineering Ltd. is assisting with a report required by Manitoba Infrastructure to allow discharge of tile drainage to the PR 242 ditch(s). I expect that report to be done by next week. Once Next Gen files the application to Drainage and Water Licensing Branch it will up to the Branch to identify any areas that cannot be tile drained (e.g., wetlands).

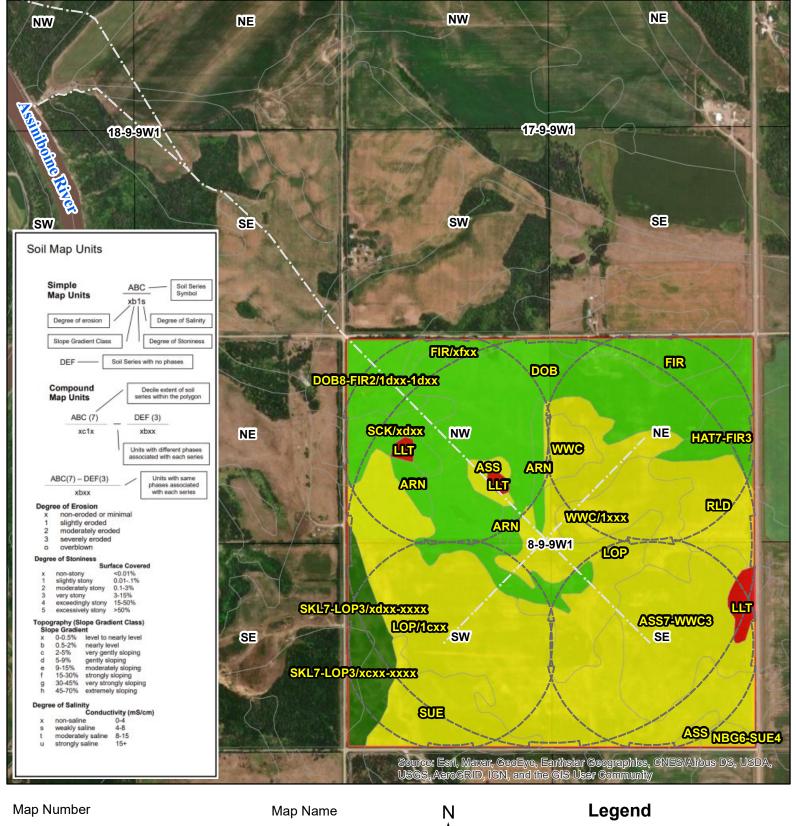
The attached shows limited Class 5 soils (aka --- Class 3 grouping) on the section (e.g., LLT (wetness; poorly drained) and FIR/DOB (topography)). The Class 6 soils (aka ---- Group 4) are eolian (and do not require tile drainage). Otherwise the section is rated as Group 1 or 2. I have asked Russel if any land is excluded from cultivation and planting in recent years.

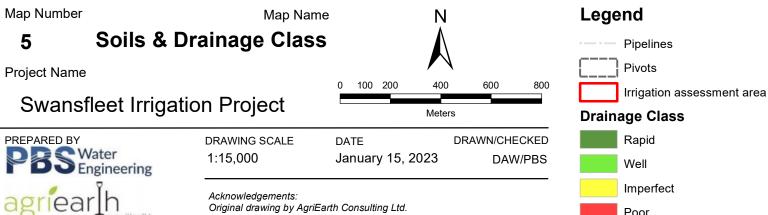
Hope this helps to move the Environmental Act License to completion in draft format for review by owners. The Drainage and Water Licensing Branch approvals are being sought simultaneously.

Please advise if any questions.

Regards

Bruce Shewfelt, P.Eng.





Data accessed from Manitoba Land Initiative, Province of Manitoba.

Poor

Original drawing by AgriEarth Consulting Ltd.

Manitoba AgriMaps SW-16-9-9W1 SE-1899W1 SW-17-9-9W1 SE-17-9-9W1 Legend FIR DOB* - FIR 50N Riding Waterbodies Towns and xfxx FIR xdxx xxxx Places Mountain (NTS DOB8 - FIR2 National Park 1:20.000) **Provincial Trunk** 1 dxx **Highways** SEU DOB Labels are Provincial red when xgxx Trunk zoomed in Highways closer than the intended **Provincial Roads** SCK accuracy and Access Roads level xdxx NE899W1 NE-7-9-9W1 Provincial HAT7 - FIR Dryland Agricultural LLT Roads WWC Capability NW8 9 9W1 Access FIR ASS ARN Groupings Roads xexx ARN LLT Municipal Group 1 Roads and Trails Group 2 RLD WWC 2 42 TDP Manitoba 1xxx Group 3 ARN Boundary Group 4 52W Municipal Boundaries LOP Water Mile Markers Norfolk Treherne Unclassified land KO Township TDP Boundaries Modified land LLT SKL⁷=LOP3 Quarter Urban land Section Lines xdxx xxxx and River Not ASS7 - WWC3 Lots Applicable SE7-99W1 SW899W1 83899W1 SW-999W1 Section Grid Water Labels Provincial Watercour... LOP Parks (NTS 1 cxx 1:20,000) SKL⁷-LOP³ XCXX XXXX SUE 49N NE-6-9-9W1 NBG⁸-SUE⁴ ŚEĖ NW-5-9-9W1 SKL Manitoba Agriculture, Source Esti Maxan Earths at Geographics, and xexx WWC xdxx the GIS User Community 0.25 0.5 0.75 ⊐Kms Manitoba Agriculture makes every effort to ensure that soil survey data and interpretations are accurate, verified, and up-to-date. However, as data is 29/07/2023 1:18,056 continuously updated, sorted and verified, future updates may contain Manitoba 📆 additional information. WGS 1984 Web Mercator Auxiliary Sphere