

**ATTACHMENT 8 – DRAINAGE DITCH NAVIGABILITY DETERMINATION,
SEPTEMBER 23, 2014**

DATE: 09/23/2014

FILE REF: 3500

TO: Emerald Park/Advanced Disposal File

FROM: Kathi Kramasz, WMS *KK*

SUBJECT: 2014 Navigability Determination for EPL Expansion Proposal

On September 3, 2014, I visited this site with Joe Lourigan, Marie Kopka, and Tyler Field from Cornerstone Environmental Group. The purpose of the site visit was to:

- Review the wetland boundaries in the field
- Begin the wetland functional assessment
- Determine the extent of navigability of the waterways in the northern wetland complex

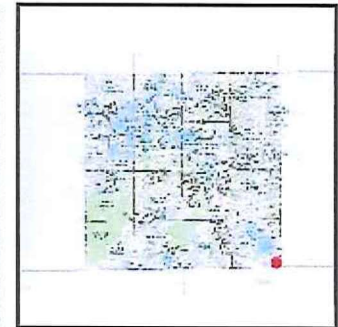
Based on our site visit Marie Kopka prepared several comments about additional information needed to complete the wetland delineation before a concurrence letter can be finalized.

We have also started the WRAM process and have determined that the wetlands will likely fall into the moderate-high category.

We also finalized the navigability determination. Navigability can change over time as the watershed changes, as storm events change, as site conditions change, etc. Based on site conditions documented during our visit and review of past aerials, etc., the waterway has been determined to be navigable from near the western corner of the wetland, to the east, and then all the way to the north. This is a difference from the past determination. This determination is based on the following:

- There was open water in the channel during our site visit.
- The channel was about 4' wide throughout most of the navigable reaches and had about 8" of water, with erosion marks, etc indicating higher water levels in the spring.
- There is a culvert that connects the w-e run and the s-n run.
- The 2007 aerial also shows open water in the channel for this entire reach
- The 2000 aerial shows this area as wetter than the other side channels and shows a clear ditch.
- At the point of navigability the waterway opens up into an actual channel. Upstream of that point it loses its defined bed and banks.

I have marked the extent of navigability on the attached 2010 aerial.



Legend

- FEMA Floodplain**
 - 1% Chance Flood (Zone A Nc)
 - 1% Chance Flood Area (Zone)
 - Floodway
- Shoreland Zoning Jurisdiction**
- Plats**
 - Assessor Plat
 - CSM
 - Condo Plat
 - Subdivision Plat

*navigability
2014*

0 339.90 Feet

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Notes:

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