WETLAND DELINEATION REPORT Jefferson Interurban Trail Phase 3 Jefferson County, WI 53066

For

KL Engineering, Inc.

5400 King James Way, Ste. 200

Madison, WI 53719

PROJECT #: 22-145

August 29, 2022



1836 W. Fond Du Lac Ave., Suite 100 Milwaukee, Wisconsin – 53205

www.helianthusdesign.com



INTRODUCTION

The subject area includes a 100-150 foot wide WE Energies utility corridor along 2.81 miles of the proposed interurban trail between CTH F and the Jefferson County line boundary. The site is located in Sections 26, 27, 35, and 36, Township 8 North, Range 16 East, in the Town of Ixonia, Jefferson County, Wisconsin. A map identifying the project location can be found in **FIGURE 1**. The closest waterbody to the site is the Rock River, which is located within the project area.

The predominant land cover for this site is old field and wetland. The purpose of the wetland delineation was to identify existing wetlands on the property and to create a map of their boundaries. A map of the surveyed wetland boundaries is found in **FIGURE 8**.

Kristi Sherfinski of HELIANTHUS conducted the wetland delineation field work on June 9 and June 10, 2022. Field conditions on both days were partly cloudy with air temperatures in the 70s (°F).

Kristi Sherfinski is certified as an Assured Wetland Delineator with the Wisconsin Department of Natural Resources (WIDNR). She has over 20 years of experience delineating wetlands in the Great Lakes Region. She received her initial basic wetland training at the Wetland Training Institute in Hastings, Michigan in 2002. Kristi worked as a project manager and wetland delineator at JFNew & Associates in Grand Haven, Michigan for six years, conducting wetland delineations in Michigan, Indiana, Illinois, and Wisconsin. Kristi then moved to Wisconsin to work for the Southeastern Wisconsin Regional Planning Commission (SEWRPC) with Dr. Donald Reed. At SEWRPC, Kristi updated the Wisconsin. Kristi participated in the Advanced Wetland Delineation training in 2006. In 2009, she attended the Wetland Delineation USACE Regional Supplement training session, the Environmental Corridor Delineation Workshop, and the Farm Service Agency (FSA) Slide Review training session. After working at SEWRPC for seven years, Kristi worked as an environmental specialist at JSD Professional Services, Inc. for two years, before she started her own business—HELIANTHUS.

METHODS

The process of wetland delineation involves collecting information about the soils, vegetation, and hydrology of a site in order to determine where the wetland boundary is located. The methodology used to conduct the delineation followed the US Army Corps of Engineers Wetlands Delineation Manual (1987), and the appropriate Regional Supplement to the Corps of Engineers Wetland Delineation Manual. In general, in southeastern and western Wisconsin, the Regional Supplement to the Corps of Engineers Wetland Delineation Manual. The remaining portions of the state follow the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region (Version 2.0, January, 2012). At this site, the Northcentral and Northeast Regional Supplement was used.



Prior to the site visit, several sources of data are consulted to reveal information that will aid in locating the wetlands on the site. The sources reviewed include weather records to determine antecedent hydrologic conditions, the Wisconsin Wetland Inventory (WWI) map, the soil survey map, a topographic map, and historic aerial photographs of the project area. In areas that are under active cultivation as farmland, a Farm Service Agency (FSA) Slide Review is also conducted.

Data sample points are chosen based on the potential wetland areas identified by reviewing the above-referenced sources, and other sample points are added based on information gathered while in the field. Sample points are chosen on either side of the wetland line for their ability to reveal information about the actual location of the line, and upland reference data samples are chosen in order to show the contrast between wetland and upland field conditions.

Once a data sample point is chosen and located in the field, data is collected on the vegetation, the hydrology, and the soils of the site. Vegetation is identified by strata (tree, shrub, herbaceous, and vine layers), and an aerial coverage percent is determined for each species by layer. The plot size for the tree, shrub, and vine layers is a 30-foot radius circle, and the plot size for the herbaceous layer is a 5-foot radius circle. The scientific names and wetland status of each plant species follows the National Wetland Plant List (2018). Once all species have been assigned a cover percentage, the dominance by wetland indicator plant species is assessed.

Hydrological indicators, as described in the Regional Supplements, are then listed for the sample point. A soil pit is excavated to required depths and the depth of water, saturation, and the water table is recorded. The soil profile at the sample point is also described, using the Munsell Soil-Color Charts (2009) to assess the color of the soil, and a texture analysis to determine the predominant texture of each soil layer. This data is used to determine if the soil profile meets the hydric soil indicators as defined in the Regional Supplements and the Field Guide for Identifying Hydric Soils V. 8.2 (USDA, 2018).

Once the location of the wetland line is determined from the data sampling effort, the edge of the wetland is flagged in the field and then surveyed in order to produce a map of the wetland that occurs on the subject property. Representative photographs of the sample points and of each wetland area were taken during the field visit. Any ditch, stream, pond or other water body that may be considered a Water of the U.S. and thus regulated by the U.S. Army Corps of Engineers (USACE) or the Wisconsin Department of Natural Resources (WDNR) is also identified.



RESULTS AND DISCUSSION

Antecedent Hydrologic Condition Analysis

Weather records were consulted from the Oconomowoc WWTP weather station to determine if precipitation levels were normal for the three months prior to the site visit. The antecedent hydrologic condition analysis for the site revealed that climatic conditions near the site were normal at the time of the site visit (**Table 1**). Drier than normal conditions means that hydrologic indicators may be absent from the wetland sample points and the data must be interpreted accordingly. Wetter than normal conditions must be accounted for when interpreting the data because saturation or the water table may be higher than it is during normal conditions, giving false positives for hydrological indicators.

Month	3 yrs in	3 yrs in	Rain	Condition	Condition	Month	Product
	10 Less	10 More	Fall	Dry, Wet,	Value	Weight	of
	Than	Than	(inches)	Normal		Value	Previous
	(inches)	(inches)					Two
							Columns
May	2.91	4.98	2.36	Dry	1	3	3
April	2.74	4.49	3.10	Normal	2	2	4
March	1.28	2.58	3.51	Wet	3	1	3
						Sum	10
If sum is:							
6-9	Then prior period has been drier than normal						
10-14	Then prior period has been normal						
15-18	Then prior period has been wetter than normal						
Conclusions:	A sum of 10 shows the prior period to the site visit to be normal.						

Table 1 – Antecedent Hydrologic Condition Analysis

*Averages based on the 1990-2020 data.

Review of Existing Data Sources

Existing data sources were reviewed to aid in the identification of wetland areas in the field.

The topographic map (**FIGURE 2**) shows a relatively flat section of the utility corridor east of County Road F, later transitioning to steeply sloped embankment along most of the length of the corridor. The corridor is elevated above the rest of the site, with the exception of the section just east of Rockvale Road, which cuts through a hillside to create a valley. Elevations range from 906 feet above Mean Sea Level at the highest point at the east end of the project area between Ski Slide Road and the Jefferson County line, to 838 feet at the lowest elevation where the utility corridor intersects the Rock River.



There are sixteen soil types within the area of investigation (**FIGURE 3 & FIGURE 4**). The Keowns silt loam (Kb), Palms muck (Pa), and Wacousta silty clay loam (Wa) are hydric and the Sebewa silt loam (Sm) is predominantly hydric. The Lamartine silt loam (LaB), Matherton silt loam (MmA), Virgil silt loam (VwA), and Wauconda silt loam (WvB) are predominantly non-hydric, but may include hydric inclusions in depressions. The remaining soils are non-hydric. All soil types occurring on the property are listed in **Table 2**.

Map Symbol	Map Unit Name	Hydric Soil Type
FsB	Fox silt loam, 2-6%	Non-hydric
Kb	Keowns silt loam, 0-2%	Hydric
LaB	Lamartine silt loam, 2-6%	Predominantly Non-hydric
MmA	Matherton silt loam, 0-3%	Predominantly Non-hydric
МоВ	Mayville silt loam, 2-6%	Non-hydric
Ра	Palms muck, 0-2%	Hydric
RtB	Rotamer loam, 2-6%, eroded	Non-hydric
RtC2	Rotamer loam, 6-12%, eroded	Non-hydric
RtD2	Rotamer loam, 12-20%, eroded	Non-hydric
Sm	Sebewa silt loam, 0-2%	Predominantly Hydric
ThB	Theresa silt loam, 2-6%	Non-hydric
ThC2	Theresa silt loam, 6-12%, eroded	Non-hydric
VwA	Virgil silt loam, gravelly substratum, 0-3%	Predominantly Non-hydric
W	Water	Unranked
Wa	Wacousta silty clay loam, 0-2%	Hydric
WvB	Wauconda silt loam, 2-6%	Predominantly Non-hydric

Table	2 –	Soil	Types
Table	<u> </u>	2011	Types

The Wisconsin Wetland Inventory identifies six types of wetlands including T3/E1Kwv, forested/emergent wetland in the floodplain where vegetation was recently removed, E1Kwf, farmed emergent wetland in the floodplain, T3Kw, forested wetland in the floodplain, E1Kw, emergent wetland in the floodplain, T3K, forested wetland, and an E1Ka, emergent wetland that was once cultivated but has since been abandoned, along the floodplain adjacent to the Rock River (**FIGURE 5**). An excavated pond symbol is also shown near the west side of the project area. There are also several locations along the utility corridor where wetlands are mapped immediately adjacent to the property line.

Historic aerial photographs showed that a railroad line cut through farmland, forest, and wetland as of 1937. At that time, there appeared to be fewer mature trees surrounding the Rock River (**FIGURE 6**). This may have been due to farming or grazing practices. Since that time, the floodplain forest around the creek has been allowed to mature alongside the river. The remaining area along the corridor has largely remained rural farmland over the last 85 years. At some point, the railroad bed was converted to an overhead utility corridor. Even though the



corridor cuts through farmed fields, the vegetation in the corridor itself was either old field or wetland and was not cultivated. Therefore, a Farm Service Agency (FSA) slide review was not needed for this project.

Wetlands Identified During the Site Visit

A total of 22 wetlands were identified on the property during the site visit. Site photos of the wetland are included in **FIGURE 7.** Maps of the wetland boundaries are included in **FIGURE 8**. Field data sheets are included in **FIGURE 9**. A description of the wetland areas follows.

Wetland A is a disturbed wet meadow wetland spanning the width of the corridor in a depression east of CTH F. Data point #9 was located in the depression on the north side of the access road and the dominant species was reed canary grass. Soils met hydric soils criteria for A12. Thick Dark Surface and F6. Redox Dark Surface. Hydrology indicators included Surface Soil Cracks, Geomorphic Position, and FAC-Neutral Test. The adjacent upland point (#10) was located approximately two feet in elevation above the wetland on top of a berm in old field. The dominant species were smooth brome and Kentucky bluegrass. Soils were non-hydric and there were no signs of hydrology.

Wetland B is a disturbed wet meadow wetland in the center of the corridor east of CTH F. Data point #7 was located in the depression on the west side of the wetland and the dominant species were reed canary grass, tussock sedge, and common spike-rush. Soils consisted of 14 inches of clay loam and sandy clay over gravel fill and met hydric soils criteria for A11. Depleted Below Dark Surface, F3. Depleted Matrix, and F6. Redox Dark Surface. Soils were saturated at the surface with the water table at six inches below the surface. Hydrology indicators included High Water Table, Saturation, Geomorphic Position, and FAC-Neutral Test. The adjacent upland point (#8) was located approximately three feet in elevation above the wetland on top of a berm in old field and the dominant species was smooth brome. Soils were non-hydric and there were no signs of hydrology.

Wetland C is a forested/emergent wetland on the north side of the corridor west of the Rock River in the floodplain. Two sets of data points were taken at each side of the wetland to determine the boundary extents.

Data point #3 was located at the toe of slope adjacent to the Rock River and the dominant species were silver maple, green ash, reed canary grass, and tussock sedge. Soils met hydric soils criteria for A12. Thick Dark Surface, A10. 2 cm Muck, and F6. Redox Dark Surface. There was a half inch of standing water in the plot and hydrology indicators included Surface Water, Water Marks, Water-Stained Leaves, Drainage Patterns, Geomorphic Position, and FAC-Neutral Test. The adjacent upland point (#1) was located approximately eight feet in elevation above the wetland on the hilltop of the access road in old field between the utility poles. The dominant species were Kentucky bluegrass, Canada anemone, smooth brome, and tussock sedge and the Prevalence Index was 3.51. Soils consisted of six inches of sandy loam over gravel fill and were non-hydric. There were no signs of hydrology.



Data point #6 was located at the toe of slope on the west side of the wetland and the dominant species were eastern cottonwood, black willow, sandbar willow, red osier dogwood, and reed canary grass. Soils met hydric soils criteria for A3. Black Histic, F6. Redox Dark Surface, and A12. Thick Dark Surface. Soils were saturated at the surface with the water table located at nine inches below the surface and hydrology indicators included High Water Table, Saturation, Water Marks, Sediment Deposits, Water-Stained Leaves, Drainage Patterns, Geomorphic Position, and FAC-Neutral Test. The adjacent upland point (#4) was located approximately 10-12 feet in elevation above the wetland on top the convex hilltop of the corridor in old field and the dominant species were Kentucky bluegrass, smooth brome, and common yarrow. Soils consisted of five inches of sandy loam over gravel fill and were non-hydric. There were no signs of hydrology.

Wetland D is a forested/emergent wetland and scrub-shrub emergent wetland on the south side of the road west of the Rock River. Again, two sets of data points were taken at each side of the wetland to determine the boundary extents.

Data point #2 was located at the toe of slope adjacent to the Rock River in forested/emergent wetland and the dominant species were cottonwood, silver maple, red-osier dogwood, and reed canary grass. Soils met hydric soils criteria for A12. Thick Dark Surface, A10. 2 cm Muck, and F6. Redox Dark Surface. There was a half inch of standing water in the plot and hydrology indicators included Surface Water, Water Marks, Water-Stained Leaves, Drainage Patterns, Geomorphic Position, and FAC-Neutral Test. The adjacent upland point (#1) had dominant species of Kentucky bluegrass, Canada anemone, smooth brome, and tussock sedge. Soils consisted of six inches of sandy loam over gravel fill and were non-hydric. There were no signs of hydrology.

Data point #5 was located at the toe of slope in scrub-shrub/emergent wetland and the dominant species were sandbar willow and reed canary grass. Soils met hydric soils criteria for A12. Thick Dark Surface, A10. 2 cm Muck, and F6. Redox Dark Surface. Two inches of standing water was present in the plot and hydrology indicators included Surface Water, Water-Stained Leaves, Drainage Patterns, Geomorphic Position, and FAC-Neutral Test. The dominant species for upland point (#4) were Kentucky bluegrass, smooth brome, and common yarrow. Soils consisted of five inches of sandy loam over gravel fill and were non-hydric. There were no signs of hydrology.

Wetland E is a forested/emergent wetland on the north side of the road east of the Rock. Two sets of data points were taken at the east and west sides of the wetland to determine the extents.

Data point #23 was located at the toe of slope adjacent to the Rock River and the dominant species were bur oak, box elder, silky dogwood, reed canary grass, and fringed sedge. Soils met hydric soils criteria for A11. Depleted Below Dark Surface, F3. Depleted Matrix, and F6. Redox Dark Surface. Soils were saturated at the surface with the water table ten inches below and



hydrology indicators included High Water Table, Saturation, Sediment Deposits, Drift Deposits, Drainage Patterns, Geomorphic Position, and FAC-Neutral Test. The adjacent upland point (#21) was located approximately 15 feet in elevation above the wetland. The dominant species were smooth brome and Kentucky bluegrass. Soils consisted of three inches of loam over gravel fill and were non-hydric. There were no signs of hydrology.

Data point #20 was located at the toe of slope and the dominant species were silver maple, green ash, common lake sedge, reed canary grass, and jewelweed. Soils consisted of 14 inches of muck over silty clay and met hydric soils criteria for A3. Black Histic and A12. Thick Dark Surface. Soils were saturated at the surface with the water table one inch below and hydrology indicators included High Water Table, Saturation, Water Marks, Water-Stained Leaves, Geomorphic Position, and FAC-Neutral Test. The adjacent upland point (#19) was located approximately 10 feet in elevation above the wetland on top of the access road and the dominant species were Kentucky bluegrass and smooth brome. Soils consisted of five inches of loam over gravel fill and were non-hydric. There were no signs of hydrology.

Wetland F is a forested/emergent wetland on the south side of the road east of the Rock River. Two sets of data points were taken at the east and west sides of the wetland to determine the extents.

Data point #22 was located at the toe of slope adjacent to the Rock River and the dominant species were box elder, silver maple, common buckthorn, gray dogwood, and reed canary grass. Soils met hydric soils criteria for A11. Depleted Below Dark Surface, A10. 2 cm Muck, and F3. Depleted Matrix. Soils were saturated at the surface with the water table ten inches below and hydrology indicators included High Water Table, Saturation, Water Marks, Sediment Deposits, Water-Stained Leaves, Geomorphic Position, and FAC-Neutral Test. The adjacent upland point (#21) was located approximately 15 feet in elevation above the wetland. The dominant species were smooth brome and Kentucky bluegrass. Soils consisted of three inches of loam over gravel fill and were non-hydric. There were no signs of hydrology.

Data point #18 was located at the toe of slope and the dominant species were silver maple, rice cut grass, and reed canary grass. Soils consisted of 18 inches of muck over silty clay and met hydric soils criteria for A1. Histosol and A12. Thick Dark Surface. Soils were saturated at the surface with the water table one inch below and hydrology indicators included High Water Table, Saturation, Water Marks, Water-Stained Leaves, Geomorphic Position, and FAC-Neutral Test. The adjacent upland point (#19) was located approximately 10 feet in elevation above the wetland on top of the access road and the dominant species were Kentucky bluegrass and smooth brome. Soils consisted of five inches of loam over gravel fill and were non-hydric. There were no signs of hydrology.

Wetland G is a disturbed wet meadow wetland and appeared to have recently been filled with manure and likely treated with herbicide from the neighboring farm to the south. Data point #16 was located in a depression with no vegetation in the plot, though the dominant species observed around the edge of the wetland was reed canary grass. Soils were inaccessible due to



the nature of the liquid manure. There were one to two inches of standing water and hydrology indicators included Surface Water, Surface Soil Cracks, and Geomorphic Position. The adjacent upland point (#17) was located approximately one foot in elevation above the wetland on a convex hillslope in old field and the dominant species was smooth brome. Soils were non-hydric and there were no signs of hydrology.

Wetland H is a scrub-shrub/emergent wetland along a creek on the north side of the corridor. Data point #24 was located at the toe of slope and the dominant species were sandbar willow, reed canary grass, and common lake sedge. Soils consisted of 12 inches of muck over silty clay and met hydric soils criteria for A3. Black Histic. Soils were saturated at the surface with the water table one inch below and the hydrology indicators included High Water Table, Saturation, Geomorphic Position, and FAC-Neutral Test. The adjacent upland point (#15) was located approximately four feet in elevation above the wetland on a convex hillslope on the road embankment. The dominant species were smooth brome, early meadow-rue, and common horsetail. Soils consisted of ten inches of silty clay loam over gravel fill and were non-hydric. There were no signs of hydrology.

Wetland I is a disturbed wet meadow wetland along a creek on the south side of the road that is mapped as emergent wetland by the Wisconsin Wetland Inventory just south of the property line. Data point #14 was located at the toe of slope and the dominant species was tussock sedge. Soils met hydric soils criteria for A10. 2 cm Muck, A11. Depleted Below Dark Surface, and F3. Depleted Matrix. Soils were saturated at the surface with the water table two inches below and the hydrology indicators included High Water Table, Saturation, Drainage Patterns, Geomorphic Position, and FAC-Neutral Test. The dominant species in upland point (#15). were smooth brome, early meadow-rue, and common horsetail. Soils consisted of ten inches of silty clay loam over gravel fill and were non-hydric. There were no signs of hydrology.

Wetland J is a scrub-shrub/emergent wetland adjacent to an excavated pond north of the property line and west of where the utility corridor intersects Rockvale Road. Data point #25 was located in a swale separated from the pond by a berm and the dominant species were box elder, common buckthorn, black willow, and reed canary grass. Soils met hydric soils criteria for F6. Redox Dark Surface. Soils were saturated at 17 inches below the surface with the water table at 19 inches below and the hydrology indicators included Geomorphic Position and FAC-Neutral Test. The adjacent upland point (#26) was located approximately ten feet in elevation above the wetland on a 30% convex hillslope in old field that met the hydrophytic vegetation indicator. The dominant species were reed canary grass, common buckthorn, Kentucky bluegrass, enchanter's-nightshade, elderberry, Virginia water-leaf, and asparagus. Soils consisted of three inches of loam over gravel fill and were non-hydric. There were no signs of hydrology.

Wetland K is a disturbed wet meadow wetland south of the utility corridor where Rockvale Road runoff flows to a culvert under the power line that drains into the pond to the north. Data point #11 was located in the drainage swale and the dominant species was reed canary grass. Soils met hydric soils criteria for F6. Redox Dark Surface. Hydrology indicators included Drainage Patterns, Geomorphic Position, and FAC-Neutral Test. The adjacent upland point (#12)



was located approximately three feet in elevation above the wetland on a 30% convex hillslope in old field. The dominant species were mugwort and reed canary grass, and the Prevalence Index was 3.69. Soils consisted of nine inches of silty clay loam over gravel fill and were nonhydric. There were no signs of hydrology.

Wetland L is a disturbed wet meadow wetland north of the access road where the utility corridor cuts through a hillside and forms a valley east of the Rockvale Road intersection. Data point #27 was located in the depression and the dominant species were reed canary grass and common lake sedge. Soils met hydric soils criteria for F6. Redox Dark Surface. Hydrology indicators included Surface Soil Cracks, Geomorphic Position, and FAC-Neutral Test. The adjacent upland point (#28) was located approximately one foot in elevation above the wetland on a slight berm in old field. The dominant species were Kentucky bluegrass and path rush, and the Prevalence Index was 3.67. Soils consisted of three inches of loam over solid gravel fill and were non-hydric. There were no signs of hydrology.

Wetland M is a disturbed wet meadow wetland on the south side of the access road where the utility corridor cuts through a hillside. Data point #29 was located in the depression and the dominant species were reed canary grass and common lake sedge. Soils consisted of 12 inches of silty clay loam and silty clay over gravel fill and met hydric soils criteria for F6. Redox Dark Surface. Soils were saturated at six inches below the surface with the water table at 11 inches. Hydrology indicators included High Water Table, Saturation, Geomorphic Position, and FAC-Neutral Test. The adjacent upland point (#28) was located approximately one foot in elevation above the wetland on a slight berm in old field. The dominant species were Kentucky bluegrass and path rush, and the Prevalence Index was 3.67. Soils consisted of three inches of loam over solid gravel fill and were non-hydric. There were no signs of hydrology.

Wetland N is a disturbed wet meadow wetland in the middle of the access road where the utility corridor cuts through a hillside. The dominant species in Data point #30 were common lake sedge, reed canary grass and hybrid cattail. Soils consisted of 11 inches of loam and silty clay over gravel fill and met hydric soils criteria for F6. Redox Dark Surface. Hydrology indicators included Geomorphic Position and FAC-Neutral Test. The adjacent upland point (#31) was located approximately one foot in elevation above the wetland on a slight berm in old field where the dominant species was Kentucky bluegrass. Soils consisted of five inches of loam over gravel fill and were non-hydric. There were no signs of hydrology.

Wetlands O and P are disturbed wet meadow wetlands along a creek on either side of the corridor and connected by a large culvert. Data point #33 was located on the north end of the culvert at the toe of slope and the dominant species was reed canary grass. Soils met hydric soils criteria for A11. Depleted Below Dark Surface, F3. Depleted Matrix, and F6. Redox Dark Surface. Soils were saturated at 11 inches with the water table at 12 inches below the surface. Hydrology indicators included High Water Table, Saturation, Drainage Patterns, Geomorphic Position and FAC-Neutral Test. The adjacent upland point (#32) was located approximately six feet in elevation above the wetland on 30% convex hillslope in old field where the dominant



species were Kentucky bluegrass, red clover, and common horsetail. Soils consisted of eight inches of silt loam over gravel fill and were non-hydric. There were no signs of hydrology.

Wetland Q is a sedge meadow wetland north of the access drive. Data point #34 was located in a depression and the dominant species was tussock sedge. Soils consisted of 14 inches of silt loam over muck and met hydric soils criteria for F6. Redox Dark Surface. Hydrology indicators included Drainage Patterns, Geomorphic Position, and FAC-Neutral Test. The adjacent upland point (#35) was located approximately six feet in elevation above the wetland on a 30% convex hillslope in old field where the dominant species was Kentucky bluegrass. Soils consisted of nine inches of silty clay loam over gravel fill and were non-hydric. There were no signs of hydrology.

Wetland R is a disturbed wet meadow wetland south of the access drive. Data point #36 was located at the toe of slope and the dominant species was reed canary grass. Soils met hydric soils criteria for A12. Thick Dark Surface, F1. Loamy Mucky Mineral, and F6. Redox Dark Surface. Hydrology indicators included Oxidized Rhizospheres on Living Roots, Drainage Patterns, Geomorphic Position, and FAC-Neutral Test. The adjacent upland point (#35) was located approximately six feet in elevation above the wetland on a 30% convex hillslope in old field where the dominant species was Kentucky bluegrass. Soils consisted of nine inches of silty clay loam over gravel fill and were non-hydric. There were no signs of hydrology.

Wetland S is a disturbed wet meadow wetland north of the access drive and west of Ski Slide Road. Data point #40 was located in a swale connected to a culvert under the access drive and under Ski Slide Road. The dominant species was reed canary grass. Soils met hydric soils criteria for F6. Redox Dark Surface. Hydrology indicators included Drainage Patterns, Geomorphic Position, and FAC-Neutral Test. The adjacent upland point (#39) was located approximately eight feet in elevation above the wetland on a convex hillslope in old field where the dominant species was smooth brome. Soils consisted of 11 inches of loam over gravel fill and were non-hydric. There were no signs of hydrology.

Wetland *T* is a disturbed wet meadow wetland south of the corridor and west of Ski Slide Road. Data point #38 was located in a swale and the dominant species was reed canary grass. Soils met hydric soils criteria for A11. Depleted Below Dark Surface and F6. Redox Dark Surface. Hydrology indicators included Drainage Patterns, Geomorphic Position, and FAC-Neutral Test. The adjacent upland point (#39) was located approximately eight feet in elevation above the wetland on a convex hillslope in old field where the dominant species was Smooth brome. Soils consisted of 11 inches of loam over gravel fill and were non-hydric. There were no signs of hydrology.

Wetland U is a wetland complex composed of disturbed wet meadow and forested/emergent wetland located north of the corridor and west of the Jefferson County boundary line. Data point #41 was located in disturbed wet meadow wetland on the west side in a slight swale and the dominant species was reed canary grass. Soils met hydric soils criteria for A12. Thick Dark Surface, F1. Loamy Mucky Mineral, and F6. Redox Dark Surface. Hydrology indicators included Drainage Patterns, Geomorphic Position, and FAC-Neutral Test.



Data point #45 was located on the east side in forested/emergent wetland in a swale that discharges into a creek and goes through a culvert under the utility corridor. The dominant species were black willow, bur oak, box elder, common buckthorn, and rice cut grass. Soils met hydric soils criteria for A12. Thick Dark Surface, F1. Loamy Mucky Mineral, and F6. Redox Dark Surface. Soils were saturated at the surface with the water table at 11 inches below the surface and the hydrology indicators included High Water Table, Saturation, Water-Stained Leaves, Drainage Patterns, Geomorphic Position, and FAC-Neutral Test. The adjacent upland point (#42) was located approximately three feet in elevation above the wetland on a shelf next to a ditch where the vegetation was somewhat sparse and the dominant species was reed canary grass. The ditch appeared to have effectively drained the area. The soils were likely ditch spoils that were spread on top of the original soil layer as fill material. The soils did not meet any hydric indicators and there were no signs of hydrology.

Wetland V is a forested/emergent wetland south of the corridor and continues east beyond the county line boundary. Data point #43 was located at the toe of slope and the dominant species were American elm, common buckthorn, and reed canary grass. Soils met hydric soils criteria for A12. Thick Dark Surface and F6. Redox Dark Surface. Hydrology indicators included Water Marks, Water-Stained Leaves, Geomorphic Position, and FAC-Neutral Test. The adjacent upland point (#44) was located approximately six feet in elevation above the wetland on a 30% convex hillslope in old field where the dominant species were Kentucky bluegrass and smooth brome. Soils consisted of nine inches of loam over gravel fill and were non-hydric. There were no signs of hydrology.

Upland Data Points

An additional upland data point was sampled to verify lack of wetland elsewhere within the area of investigation.

Data point #13 was taken in a slight swale on the south side of the corridor. The dominant species were common buckthorn, common wood sedge, common horsetail, and fringed sedge. Even though hydrophytic vegetation and hydrology indicators were both met, soils were non-hydric and thus the area was determined to be non-wetland.

CONCLUSION

HELIANTHUS LLC identified wetlands in the project area on June 9 and June 10, 2022, using the standard practices described in this report and their best professional judgment. The wetland lines staked in the field and referred to in this report are the best estimate of the wetland boundaries based on the conditions present at the time of the delineation. The wetlands identified for this report may be subject to federal regulation under the jurisdiction of the U.S. Army Corps of Engineers, state regulation under the jurisdiction of Wisconsin DNR, and local jurisdiction under your local, county, town, city, or village. Because this delineation was conducted by Ms. Sherfinski, an Assured Wetland Delineator, obtaining a concurrence letter



from the Wisconsin Department of Natural Resources is not necessary. It should be noted that all reports conducted by an Assured Delineator are required to be submitted to WDNR for their records, and may be subject to their review as part of an annual review process. Concurrence with these wetland lines by the U.S. Army Corps of Engineers, however, is not required. If a permit is applied for, the USACOE will review the wetland delineation report during the permit application process.

In addition, because a wetland delineation is considered to be a point in time determination, wetland delineations are considered to be valid for a period of only five years for federal wetlands and 15 years for nonfederal wetlands. Weather patterns and site conditions can change over time, making a new delineation necessary.

Other environmental considerations include threatened or endangered species. It is recommended that an Endangered Resources (ER) Review request be submitted to the WDNR prior to pursuing any permits for proposed work.

Any impact, alteration, or fill to either the wetland areas or to waterways that are considered Waters of the U.S. are subject to state and federal regulations and permits may be required. The WDNR administers Chapters 30 and 281 of the Wisconsin State Statues, and the USACE administers Section 404 of the Clean Water Act. Additional county, city or village ordinances may also apply to wetlands or waterways. If any disturbance occurs on the property without obtaining wetland delineation concurrence or authorization from the USACE and WDNR, it should be considered at the owner's own risk and HELIANTHUS LLC shall not be considered responsible or liable for any resulting damages.



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County Road F to the Rock River





Section from Rock River to Rockvale Road



FIGURE 2. TOPOGRAPHIC MAP (3 OF 5)



Section from Rockvale Road

FIGURE 2. TOPOGRAPHIC MAP (4 OF 5)





Section from Ski Slide Road



FIGURE 2. TOPOGRAPHIC MAP (5 OF 5)



Section to Jefferson County Line

FIGURE 3. SOIL SURVEY MAP (1 OF 2)





lap Unit Symbol	Map Unit Name
3	Fox silt loam, 2-6%
	Keowns silt loam, 0-2%
В	Lamartine silt loam, 2-6%
mA	Matherton silt loam, 0-3%
ъВ	Mayville silt loam, 2-6%
	Palms muck, 0-2%
В	Theresa silt loam, 2-6%
	Water
A	Wacousta silty clay loam, 0-2%
vВ	Wauconda silt loam, 2-6%

Section from County Road F to Rockvale Road

Source: NRCS Web Soil Survey, 2022



FIGURE 3. SOIL SURVEY MAP (2 OF 2)



and a second sec	
lap Unit Symbol	Map Unit Name
	Keowns silt loam, 0-2%
3	Lamartine silt loam, 2-6%
ъВ	Mayville silt loam, 2-6%
3	Rotamer loam, 2-6%, eroded
22	Rotamer loam, 6-12%, eroded
02	Rotamer loam, 12-20%, eroded
I	Sebewa silt loam, 0-2%
В	Theresa silt loam, 2-6%
C2	Theresa silt loam, 6-12%, eroded
Α	Virgil silt loam, gravelly substratum, 0-3%
3	Wacousta silty clay loam, 0-2%

Section from Rockvale Road to the Jefferson County Line

Source: NRCS Web Soil Survey, 2022



FIGURE 4. NRCS WISCONSIN SOILS MAP (1 OF 2)



Section from County Road F to Rockvale Road



FIGURE 4. NRCS WISCONSIN SOILS MAP (2 OF 2)



Section from Rockvale Road to the Jefferson County Line



FIGURE 5. WWI MAP (1 OF 2)



Section from County Road F to Rockvale Road



FIGURE 5. WWI MAP (2 OF 2)



Section from Rockvale Road to the Jefferson County Line





FIGURE 1. LOCATION MAP





FIGURE 6. HISTORIC AERIAL PHOTOS

Source: Wisconsin Historic Aerial Imagery Finder & Jefferson County GIS, 2022





FIGURE 6. HISTORIC AERIAL PHOTOS





FIGURE 6. HISTORIC AERIAL PHOTOS





Wetlands A and B are both disturbed wet meadow wetlands east of CTH F.



Wetland C is a forested/emergent wetland in the floodplain on the north side of the road west of the Rock River.





Wetland D is a forested/emergent wetland on the south side of the road west of the Rock River in the floodplain.



View of the Rock River from the west edge of Wetland E, near Data point #23.





Wetland F is a forested/emergent wetland east of the Rock River, south of the road.



Wetland G is a disturbed wet meadow wetland that appeared to have recently been filled with manure and likely treated with herbicide from the neighboring farm.





Wetland H is a scrub-shrub/emergent wetland along a creek on the north side of the raised access drive.



Wetland I is disturbed wet meadow wetland along a creek on the south side of the raised access drive.





Wetland J is a scrub-shrub/emergent wetland adjacent to an excavated pond north of the property line and west of where the utility corridor intersects Rockvale Road.



Wetland K is a disturbed wet meadow wetland south of the utility access road where Rockvale Road runoff flows to a culvert. FIGURE 7. SITE PHOTOS





Wetland L is a disturbed wet meadow wetland north of the access road where the utility corridor cuts through a hillside and forms a valley east of the Rockvale Road intersection.



Wetland M is another disturbed wet meadow wetland on the south side of the access road in a valley.





Wetland N is a disturbed wet meadow wetland on both sides of the access road.



Wetlands O and P are both disturbed wet meadow wetlands along a creek connected by a culvert under the road.




Wetland Q is a sedge meadow wetland north of the access drive.



Wetland R is a disturbed wet meadow wetland south of the access drive.

FIGURE 7. SITE PHOTOS





Wetland S is disturbed wet meadow wetland located in a swale connected to a culvert under both the access drive and Ski Slide Road.



Wetland T is a disturbed wet meadow wetland south of the access drive.

FIGURE 7. SITE PHOTOS





View of the east side of Wetland U in disturbed wet meadow.



Upland point #42 was located approximately three feet in elevation above the wetland on a ditch shelf. The ditch in Wetland U appeared to have effectively drained the area next to it. FIGURE 7. SITE PHOTOS





View of Wetland U on the east end near data point #45 in forested/emergent wetland. The swale discharges into a creek and goes through a culvert under the utility access drive.



Wetland V is a forested/emergent wetland south of the access drive.

FIGURE 7. SITE PHOTOS



FIGURE 8. WETLAND BOUNDARY MAP



G:\JEFFERSON COUNTY\JIT PH 3 FEASIBILITY STUDY\CIVIL 3D\SHEETSOTHER\WETLAND-DISPLAY.DWG LAYOUT NAME - 01 JEFFERSON FILE NAME :

PLOT DATE : 8/2/2022 10:28 AM PLOT BY :

PLOT NAME



FILE NAME : G:VEFFERSON COUNTY/JIT PH 3 FEASIBILITY STUDY/CIVIL 3D/SHEETSOTHER/WETLAND-DISPLAY.DWG LAYOUT NAME - 02 JEFFERSON PLOT DATE : 8/2/2022 10:29 AM PLOT BY : JOSH MERCIER

PLOT NAME :



FILE NAME : G:VEFFERSON COUNTY\IT PH 3 FEASIBILITY STUDY\CIVIL 3D\SHEETSOTHER\WETLAND-DISPLAY.DWG LAYOUT NAME - 03 JEFFERSON PLOT DATE : 8/2/2022 10:30 AM PLOT BY : JOSH MERCIER PLOT NAME :





G:\JEFFERSON COUNTY\JIT PH 3 FEASIBILITY STUDY\CIVIL 3D\SHEETSOTHER\WETLAND-DISPLAY.DWG LAYOUT NAME - 05 JEFFERSON FILE NAME :

PLOT BY : JOSH MERCIER PLOT DATE : 8/2/2022 10:32 AM

PLOT NAME :



FIGURE 9. FIELD DATA SHEETS

Project/Site:	Jefferson Interurba	n Trail Phase 3	City/County:	Ixonia/J	efferson	Sampling Date:	June 9, 2	022
Applicant/Owne	er: KL Engineering	j, Inc.		State:	WI	Sampling Po	oint:	1
Investigator(s):	K. Sherfinski			Section	Township	, Range: S27, T8l	N, R16E	
Landform (hillsl	ope, terrace, etc.):	hilltop	Lc	cal relief	(concave, o	convex, none):	convex	
Slope (%): 3-4	Lat.:	Long	.:	Date	um:			
Soil Map Unit N	lameWacousta silty	clay loam (Wa)			NWI C	lassification: T3/E	E1Kwv	
Are climatic/hyd	drologic conditions of	of the site typical for the	is time of the yea	r? Yes	(If no,	explain in remarks	s)	
Are vegetation	, soil	, or hydrology	significant	ly disturbe	ed?	Are "normal		
Are vegetation	, soil	, or hydrology	naturally p	roblemati	c?	circumstances"	present?	Yes
(If needed, expl	ain any answers in	remarks)						

SUMMARY OF FINDINGS

<u>N</u>	Is the sampled area within a wetland?	<u> N </u>
N	If yes, optional wetland site ID:	
here or in a se	eparate report.)	
	N N N here or in a se	N Is the sampled area within a wetland? N If yes, optional wetland site ID: here or in a separate report.)

HYDROLOGY

		Secondary Indicators (minimum of two
Deine and Indiantana (minimum of an a is now	in the stand of the stand of	Secondary indicators (minimum of two
Primary indicators (minimum of one is requ	requirea)	
Surface Water (A1)	Water-Stained Leaves (B9)	Surface Soil Cracks (B6)
High Water Table (A2)	Aquatic Fauna (B13)	Drainage Patterns (B10)
Saturation (A3)	Marl Deposits (B15)	Moss Trim Lines (B16)
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	Oxidized Rhizospheres on Living	Crayfish Burrows (C8)
Drift Deposits (B3)	Roots (C3)	Saturation Visible on Aerial Imagery
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)	(C9)
Iron Deposits (B5)	Recent Iron Reduction in Tilled	Stunted or Stressed Plants (D1)
Inundation Visible on Aerial	Soils (C6)	Geomorphic Position (D2)
Imagery (B7)	Thin Muck Surface (C7)	Shallow Aquitard (D3)
Sparsely Vegetated Concave	Other (Explain in Remarks)	FAC-Neutral Test (D5)
Surface (B8)		Microtopographic Relief (D4)
Field Observations:		
Surface water present? Yes	No X Depth (inches):	Indicators of
Water table present? Yes	No X Depth (inches):	wetland
Saturation present? Yes	No X Depth (inches):	hvdrology
(includes capillary fringe)		present? N
(
Describe recorded data (stream gauge mo	nitoring well aerial photos previous inspe	ctions) if available:
Remarks:		
Approximately 8 feet in elevation h	igher than wotland	
	igner man welland.	

-

otifi of nla . . -+

	11.5		Sampling Point: 1
Tree Stratum Plot Size (30ft radius) 12	Absolute Domina % Cover Specie	ant Indicator es Status	50/20 Thresholds20%50%Tree Stratum000Sapling/Shrub Stratum000Herb Stratum26660
3 3 4 5 5 6 7 8 9 0 0 9 0 <td>0 = Total Co Absolute Domina % Cover Specie</td> <td>ant Indicator Status</td> <td>Dominance Test Worksheet Number of Dominant Species that are OBL, FACW, or FAC: 2 Total Number of Dominant Species Across all Strata: 4 Percent of Dominant Species that are OBL, FACW, or FAC: 50.00% (A) Total Number of Dominant Species Across all Strata: 4 (B) Percent of Dominant Species that are OBL, FACW, or FAC: 50.00% (A/B)</td>	0 = Total Co Absolute Domina % Cover Specie	ant Indicator Status	Dominance Test Worksheet Number of Dominant Species that are OBL, FACW, or FAC: 2 Total Number of Dominant Species Across all Strata: 4 Percent of Dominant Species that are OBL, FACW, or FAC: 50.00% (A) Total Number of Dominant Species Across all Strata: 4 (B) Percent of Dominant Species that are OBL, FACW, or FAC: 50.00% (A/B)
1 2 3 4 5 6 7 7 8 9			Prevalence Index WorksheetTotal % Cover of:OBL species 15 X 1 = 15 FACW species 15 X 2 = 30 FAC species 7 X 3 = 21 FACU species 76 X 4 = 304 UPL species 18 X 5 = 90 Column totals 131 (A) 460 Prevalence Index = $B/A =$ 3.51
Herb Stratum Plot Size (5ft radius) 1 Poa pratensis 2 Anemone canadensis 3 Bromus inermis 4 Carex stricta 5 Achillea millefolium 6 Equisetum arvense 7 Asclepias syriaca 8 Phleum pratense 9 Medicago lupulina	$\begin{array}{c} \hline 0 \\ \hline 0 \\ \hline \\ Absolute \\ \% Cover \\ \hline \\ 60 \\ \hline \\ 15 \\ \hline \\ 10 \\ \hline \\ 10 \\ \hline \\ 10$	ant Indicator Status FACU FACW UPL OBL FACU FACU FACU FACU FACU FACU FACU	Hydrophytic Vegetation Indicators: Rapid test for hydrophytic vegetation Dominance test is >50% Prevalence index is ≤3.0* Morphological adaptations* (provide supporting data in Remarks or on a separate sheet) Problematic hydrophytic vegetation* (explain) *Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic
0 Vitis riparia 1 2 3 4	2 N	FAC	Definitions of Vegetation Strata: Tree - Woody plants 3 in. (7.6 cm) or more in diameter a breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and proster than 3 00 ft (4 m) talk
Woody Vine Stratum Plot Size(30ft radius)	<u>131</u> = Total Co Absolute Domina % Cover Specie	ant Indicator es Status	 Herb - All herbaceous (non-woody) plants, regardless o size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height.
3			Hydrophytic vegetation prosent2

SOIL							S	ampling Point: 1
							<i>a</i>	
Profile Des	cription: (Descri Matrix	be to th	e depth needed	to docui lox Feat	ment the	Indicato	or or confirm the absen	ce of indicators.)
(Inches)	Color (moist)	%	Color (moist)	%	Type*	Loc**	Texture	Remarks
0-6	10YR 4/4	100	, , , , , , , , , , , , , , , , , , ,				sandy loam	gravelly
*Type: C=C	Concentration, D=	Deplet	ion, RM=Reduce	ed Matrix	x, CS=C	overed o	r Coated Sand Grains	
**Location:	PL=Pore Lining,	M=Mat	rix					
Hydric Soi	I Indicators:						Indicators for Pro	oblematic Hydric Soils:
Histosol (A1) Polyvalue Below Surface 2 cm Muck (A10) (LRR K, L, MLRA 149B Histic Epipedon (A2) (S8) (LRR R, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) (LRR R, MLRA 149B) Dark Surface (S7) (LRR K, L Stratified Layers (A5) Loamy Mucky Mineral (F1) Polyvalue Below Surface (S8) (LRR K, L) Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) Thin Dark Surface (S9) (LRR K, L, R) Sandy Mucky Mineral (S1) Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA 1449B Sandy Redox (S5) Depleted Dark Surface (F7) Mesic Spodic (TA6) (MLRA 144A, 145, 149B Stripped Matrix (S6) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA Other (Explain in Remarks) *Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Other (Explain in Remarks)								
Restrictive Type: <u>c</u> Depth (inch	Layer (if observe jravel fill nes): <u>6</u>	ed):			-		Hydric soil pres	ent? <u>N</u>
Refusal	at 6 inches du	ue to s	olid gravel fill.					

Project/Site: Jefferson Interurban Trail Phase 3	City/County:	Ixonia/Jeff	erson Sampling Date	: June 9, 20)22
Applicant/Owner: KL Engineering, Inc.		State: W	Sampling F	Point:	2
Investigator(s): K. Sherfinski		Section, T	ownship, Range: S27, Ta	8N, R16E	
Landform (hillslope, terrace, etc.): toe of slope	Loc	cal relief (co	ncave, convex, none):	concave	
Slope (%): 0-2 Lat.: Long.:		Datum	:		
Soil Map Unit Name Wacousta silty clay loam (Wa)			NWI Classification: T3/	/E1Kwv	
Are climatic/hydrologic conditions of the site typical for this	s time of the year	? Yes	(If no, explain in remark	ks)	
Are vegetation, soil, or hydrology	significantly	y disturbed?	Are "normal		
Are vegetation, soil, or hydrology	naturally pr	oblematic?	circumstances'	" present?	Yes
(If needed, explain any answers in remarks)					

SUMMARY OF FINDINGS

Hydrophytic vegetation present? Hydric soil present?	Y Y	Is the sampled area within a wetland?	
Indicators of wetland hydrology present?	Y	If yes, optional wetland site ID:	-
Remarks: (Explain alternative procedures	here or in a se	eparate report.)	

HYDROLOGY

		Secondary Indicators (minimum of two
Primary Indicators (minimum of one is req	uired; check all that apply)	required)
Surface Water (A1)	X Water-Stained Leaves (B9)	Surface Soil Cracks (B6)
High Water Table (A2)	Aquatic Fauna (B13)	X Drainage Patterns (B10)
Saturation (A3)	Marl Deposits (B15)	Moss Trim Lines (B16)
X Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	Oxidized Rhizospheres on Living	Crayfish Burrows (C8)
Drift Deposits (B3)	Roots (C3)	Saturation Visible on Aerial Imagery
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)	(C9)
Iron Deposits (B5)	Recent Iron Reduction in Tilled	Stunted or Stressed Plants (D1)
Inundation Visible on Aerial	Soils (C6)	X Geomorphic Position (D2)
Imagery (B7)	Thin Muck Surface (C7)	Shallow Aguitard (D3)
Sparsely Vegetated Concave	Other (Explain in Remarks)	X FAC-Neutral Test (D5)
Surface (B8)		Microtopographic Relief (D4)
Field Observations:		
Surface water present? Yes	No X Depth (inches):	Indicators of
Water table present? Yes	No X Depth (inches):	wetland
Saturation present? Yes	No X Depth (inches):	hydrology
(includes capillary fringe)	· · · ·	present? Y
Describe recorded data (stream gauge, m	onitoring well, aerial photos, previous inspe	ctions), if available:
Remarks:		

. tifi of nl .

GETATION - Use scientific names of plant	S			Sampling Point: 2
				50/20 Thresholds
Tree Stratum Plot Size (30ft radius)	Absolute	Dominant	Indicator	20% 50%
Dopuluo doltoidoo	% Cover	Species	Status	I ree Stratum 5 13
Populus deitoides	5	<u> </u>		Saping/Shrub Stratum 2 6
Acer sacchannum		I	FACW	Woody Vine Stratum 0 0
				Dominance Test Worksheet
				Number of Dominant
				Species that are OBL.
				FACW, or FAC: 4 (A)
				Total Number of Dominant
				Species Across all Strata: 4 (B
	25 =	 Total Cover 		Percent of Dominant
				Species that are OBL
Sapling/Shrub	Absolute	Dominant	Indicator	FACW, or FAC: 100.00% (A
Stratum Plot Size (30ft radius)	% Cover	Species	Status	
Cornus alba	10	V	EAC/W/	Prevalence Index Worksheet
Eravinus poppsylvanica	2	 N		Total % Cover of:
	2		TACW	$OBL species 2 \times 1 - 2$
				$\frac{\text{ODE species}}{\text{EACW species}} = \frac{120}{120} \times 2 = -\frac{240}{120}$
				FAC species $22 \times 3 = 66$
				FACU species $0 \times 4 = 0$
				UPL species $0 \times 5 = 0$
				Column totals 144 (A) 308 (B
				Prevalence Index = $B/A = 2.14$
	12 =	 Total Cover 		
				Hydrophytic Vegetation Indicators:
Horb Stratum Plot Size (5ft radius)	Absolute	Dominant	Indicator	Rapid test for hydrophytic vegetation
The Stratum Flot Size (Sit Tadius)	% Cover	Species	Status	X Dominance test is >50%
Phalaris arundinacea	100	Y	FACW	X Prevalence index is ≤3.0*
Salix interior	3	N	FACW	Morphological adaptations* (provide
Equisetum arvense	2	N	FAC	supporting data in Remarks or on a
Persicaria amphibia	2	N	OBL	separate sheet)
				Problematic hydrophytic vegetation*
				(explain)
				*Indicators of hydric soil and wetland hydrology must
				present, unless disturbed or problematic
				Definitions of Vegetation Strata:
				Definitions of Vegetation of ata.
				Tree - Woody plants 3 in. (7.6 cm) or more in diame
				breast height (DBH), regardless of height.
				Sapling/shrub - Woody plants less than 3 in DBH a
				greater than 3.28 ft (1 m) tall.
	107 -	= Total Cover		
				Herb - All herbaceous (non-woody) plants, regardles
Woody Vine	Absolute	Dominant	Indicator	size, and woody plants less than 3.28 ft tall.
Stratum Plot Size (Solt radius)	% Cover	Species	Status	Woody vines - All woody vines greater than 3.28 ft i
				height.
				Hydrophytic
				vegetation
	0	= Total Cover		present? Y
narks: (Include photo numbers here or on a separa	te sheet)			

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth (Inches) Matrix Color (moist) Redox Features (oright of the second construction of the second constructing of the second consecond construction of the second construction
Profile Description: Description: Close the depth needed to document the indicator of contirm the absence of indicators.) Depth Matrix Redox Features Texture Remarks 0-3 10YR 2/1 100 mucky peat mucky peat 3-15 10YR 2/1 98 10YR 3/4 2 C PL silty clay loam 15-21 5Y 5/1 85 10YR 5/8 5 C PL/M sandy clay 15-21 5Y 5/1 85 10YR 5/8 5 C PL/M sandy clay 15-21 5Y 5/1 85 10YR 5/8 5 C PL/M sandy clay 10YR 2/1 10 Image: Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains mucky peat *Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains mucky for Soil Indicators: Indicators for Problematic Hydric Soils: Histosol (A1) Polyvalue Below Surface X 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) S cm Mucky Peat or Peat (S3) (LRR K, L, I) Dark Surface (S7) (LRR K, L, I) D
Depth Induit Remarks (Inches) Color (moist) % Type* Loc** Texture Remarks 0-3 10YR 2/1 100 mucky peat
0-3 10YR 2/1 100 mucky peat 3-15 10YR 2/1 98 10YR 3/4 2 C PL silty clay loam 15-21 5Y 5/1 85 10YR 5/8 5 C PL/M sandy clay 15-21 5Y 5/1 85 10YR 5/8 5 C PL/M sandy clay 15-21 5Y 5/1 85 10YR 5/8 5 C PL/M sandy clay 10YR 2/1 10 10 10 10 10 10 10 10YR 2/1 10 10 10 10 10 10 10 10 10YR 2/1 10
3-15 10YR 2/1 98 10YR 3/4 2 C PL silty clay loam 15-21 5Y 5/1 85 10YR 5/8 5 C PL/M sandy clay 15-21 5Y 5/1 85 10YR 5/8 5 C PL/M sandy clay 10YR 2/1 10 10 10 10 10 10 *Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains ** 10 10 **Location: PL=Pore Lining, M=Matrix 10 10 10 10 10 Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) X 2 cm Muck (A10) (LRR K, L, MLRA 149B) Black Histic (A3) Thin Dark Surface (S9) X 2 cm Muck (A10) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, N) Stratified Layers (A5) Loamy Mucky Mineral (F1) Dark Surface (S7) (LRR K, L) Dark Surface (S8) (LRR K, L) Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) This Part Surface (S8) (LRR K, L)
3-15 10YR 2/1 98 10YR 3/4 2 C PL silty clay loam 15-21 5Y 5/1 85 10YR 5/8 5 C PL/M sandy clay 15-21 5Y 5/1 85 10YR 5/8 5 C PL/M sandy clay 10YR 2/1 10 10 10 10 10 10 10YR 2/1 10 10 10 10 10 10 10 **Location: PL=Pore Lining, M=Matrix Hydric Soil Indicators:
15-21 5Y 5/1 85 10YR 5/8 5 C PL/M sandy clay 15-21 5Y 5/1 10YR 2/1 10 Image: constraint of the system of the
15-21 5Y 5/1 85 10YR 5/8 5 C PL/M sandy clay 10YR 2/1 10 10 10 10 10 10 10 10YR 2/1 10 10 10 10 10 10 10 10YR 2/1 10 10 10 10 10 10 10 10YR 2/1 10 10 10 10 10 10 10 10YR 2/1 10 10 10 10 10 10 10 10YR 2/1 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10
10YR 2/1 10
*Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains *Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains **Location: PL=Pore Lining, M=Matrix Hydric Soil Indicators:
*Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains *Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains **Location: PL=Pore Lining, M=Matrix Hydric Soil Indicators:
*Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains *Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains **Location: PL=Pore Lining, M=Matrix Hydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Lawred Relaw Park Surface (A11)
*Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains *Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains **Location: PL=Pore Lining, M=Matrix Hydric Soil Indicators: Indicators for Problematic Hydric Soils:
*Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains **Location: PL=Pore Lining, M=Matrix Hydric Soil Indicators: Histosol (A1) Polyvalue Below Surface Histic Epipedon (A2) (S8) (LRR R, MLRA 149B) Black Histic (A3) Thin Dark Surface (S9) Hydrogen Sulfide (A4) (LRR R, MLRA 149B) Stratified Layers (A5) Loamy Mucky Mineral (F1) Daplated Palew Dark Surface (S1) Polyvalue Below Surface (S2) (LRR K, L)
*Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains **Location: PL=Pore Lining, M=Matrix Hydric Soil Indicators: Indicators for Problematic Hydric Soils: Histosol (A1) Polyvalue Below Surface Histic Epipedon (A2) (S8) (LRR R, MLRA 149B) Black Histic (A3) Thin Dark Surface (S9) Hydrogen Sulfide (A4) (LRR R, MLRA 149B) Stratified Layers (A5) Loamy Mucky Mineral (F1) Daplet d Relew Dark Surface (S8) (LRR K, L)
*Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains **Location: PL=Pore Lining, M=Matrix Hydric Soil Indicators: Indicators for Problematic Hydric Soils: Histosol (A1) Polyvalue Below Surface Histic Epipedon (A2) (S8) (LRR R, MLRA 149B) Black Histic (A3) Thin Dark Surface (S9) Hydrogen Sulfide (A4) (LRR R, MLRA 149B) Stratified Layers (A5) Loamy Mucky Mineral (F1) Dark Surface (S8) (LRR K, L) Polyvalue Below Surface (S9)
X 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Polyvalue Below Surface Histic Epipedon (A2) (S8) (LRR R, MLRA 149B) Black Histic (A3) Thin Dark Surface (S9) Hydrogen Sulfide (A4) (LRR R, MLRA 149B) Stratified Layers (A5) Loamy Mucky Mineral (F1) Daplated Below Dark Surface (S9) Thin Dark Surface (S1)
Hydric Soil Indicators: Indicators for Problematic Hydric Soils: Histosol (A1) Polyvalue Below Surface Histic Epipedon (A2) (S8) (LRR R, MLRA 149B) Black Histic (A3) Thin Dark Surface (S9) Hydrogen Sulfide (A4) (LRR R, MLRA 149B) Stratified Layers (A5) Loamy Mucky Mineral (F1) Daplated Below Dark Surface (A11) Polyvalue Below Surface (S2) (LRR K, L)
Histosol (A1) Polyvalue Below Surface X 2 cm Muck (A10) (LRR K, L, MLRA 149B Histic Epipedon (A2) (S8) (LRR R, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) (LRR R, MLRA 149B) Dark Surface (S7) (LRR K, L Stratified Layers (A5) Loamy Mucky Mineral (F1) Polyvalue Below Surface (S8) (LRR K, L)
Histic Epipedon (A2) (S8) (LRR R, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) 5 cm Mucky Peat or Peat (S3) (LRR K, L, I) Hydrogen Sulfide (A4) (LRR R, MLRA 149B) Dark Surface (S7) (LRR K, L Stratified Layers (A5) Loamy Mucky Mineral (F1) Polyvalue Below Surface (S8) (LRR K, L)
Black Histic (A3) Thin Dark Surface (S9) 5 cm Mucky Peat of Peat (S3) (LRR K, L, T) Hydrogen Sulfide (A4) (LRR R, MLRA 149B Dark Surface (S7) (LRR K, L) Stratified Layers (A5) Loamy Mucky Mineral (F1) Polyvalue Below Surface (S8) (LRR K, L)
Stratified Layers (A5) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (S8) (LRR K, L)
Depieted Delow Dark Sunace (ATT, (LKK N, L) Thin Dark Sunace (S9) (LKK N, L)
X Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) Iron-Manganese Masses (F12) (LRR K, L,
Sandy Mucky Mineral (S1) Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA 14
Sandy Gleyed Matrix (S4) X Redox Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 145
Sandy Redox (S5) Depleted Dark Surface (F7) Red Parent Material (F21)
Dark Surface (S7) (LRR R. MLRA
149B)
*Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic
Postrictive Lover (if shoot ed)
Type: Hydric soil present? Y
Depth (inches):
Remarks:

Project/Site: Jefferson Interurban Trail Phase 3	City/County:	Ixonia/Jeff	erson Sampling Date:	: June 9, 20)22
Applicant/Owner: KL Engineering, Inc.		State: W	Sampling F	Point:	3
Investigator(s): K. Sherfinski		Section, T	ownship, Range: S27, Ta	8N, R16E	
Landform (hillslope, terrace, etc.): toe of slope	Loc	cal relief (co	ncave, convex, none):	concave	
Slope (%): 0-2 Lat.: Long.:		Datum	:		
Soil Map Unit Name Wacousta silty clay loam (Wa)			NWI Classification: T3/	/E1Kwv	
Are climatic/hydrologic conditions of the site typical for this	s time of the year	? Yes	(If no, explain in remark	ks)	
Are vegetation, soil, or hydrology	significantly	y disturbed?	Are "normal		
Are vegetation, soil, or hydrology	naturally pr	oblematic?	circumstances'	" present?	Yes
(If needed, explain any answers in remarks)					

SUMMARY OF FINDINGS

Hydrophytic vegetation present? Hydric soil present?	<u>Y</u> Y	Is the sampled area within a wetland?	
Indicators of wetland hydrology present?	Y	If yes, optional wetland site ID:	_
Remarks: (Explain alternative procedures h	nere or in a se	eparate report.)	

HYDROLOGY

	Secondary Indicators (minimum of two		
Primary Indicators (minimum of one is required; check all that apply)	required)		
X Surface Water (A1) X Water-Stained Leaves (B9)	Surface Soil Cracks (B6)		
High Water Table (A2) Aquatic Fauna (B13)	X Drainage Patterns (B10)		
Saturation (A3) Marl Deposits (B15)	Moss Trim Lines (B16)		
X Water Marks (B1) Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)		
Sediment Deposits (B2) Oxidized Rhizospheres on Living	Crayfish Burrows (C8)		
Drift Deposits (B3) Roots (C3)	Saturation Visible on Aerial Imagery		
Algal Mat or Crust (B4) Presence of Reduced Iron (C4)	(C9)		
Iron Deposits (B5)	Stunted or Stressed Plants (D1)		
Inundation Visible on Aerial Soils (C6)	X Geomorphic Position (D2)		
Imagery (B7) Thin Muck Surface (C7)	Shallow Aguitard (D3)		
Sparsely Vegetated Concave Other (Explain in Remarks)	X FAC-Neutral Test (D5)		
Surface (B8)	Microtopographic Relief (D4)		
Field Observations:			
Surface water present? Yes X No Depth (inches): 1/2	Indicators of		
Water table present? Yes No X Depth (inches):	wetland		
Saturation present? Yes No X Depth (inches):	hydrology		
(includes capillary fringe)	present? Y		
Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspe-	ctions), if available:		
Remarks:			

VEGETATION - Use scientific names of plants

/EGETATION - Use scientific names of plant	ïS			Sampling Point: 3
				50/20 Thresholds
Tree Stratum Plot Size (30ft radius)	Absolute	Dominant	Indicator	20% 50%
	% Cover	Species	Status	Tree Stratum 6 15
1 Acer saccharinum	30	Y	FACW	Sapling/Shrub Stratum 3 8
2				Herb Stratum 24 59
3				Woody Vine Stratum 0 0
4				D. Jacob Text Michael
5				Dominance Test worksneet
6	. <u> </u>			Number of Dominant
/	·			Species that are OBL, $5 (A)$
o				Total Number of Dominant
9 10				Species Across all Strata: 5 (B)
	30 -	- Total Cover		
		- 1010. 00		Percent of Dominant
Sanling/Shruh	Absoluto	Dominant	Indicator	Species marate ODL, EACM/ or EAC' 100 00% (A/B)
Stratum Plot Size (30ft radius)	% Cover	Species	Status	
	10	opooloo V		Der sterres beder Werkehaat
1 Acer saccharinum	10	<u> </u>	FACW	Prevalence Index worksneet
2 Fraxinus pennsylvanica	5	<u> </u>	FACW	Total % Cover of:
3				OBL species 60 x 1 = 60
4				FACW species $98 \times 2 = 196$
5				FAC species $5 \times 3 = 15$
6				FACU species $U \times 4 = U$
/				$\begin{array}{c c} UPL \text{ species} & U & x \text{ b} = & U \\ Column totals & 162 & (A) & 271 & (B) \end{array}$
8				$\begin{array}{c c} \text{Column totals} & \text{Ios} & (A) & \underline{ZII} & (B) \\ \text{Brayelence ladax} = B/A = & 1.66 \\ \end{array}$
9 10				
10	15 -	- Total Cover		
		- 10101 00101		Hydrophytic Vegetation Indicators:
	Absolute	Dominant	Indicator	Rapid test for hydrophytic vegetation
Herb Stratum Plot Size (5ft radius)	% Cover	Species	Status	X Dominance test is >50%
1 Phalaris arundinacea	50	· Y	FACW	X Prevalence index is ≤3.0*
2 Carex stricta	50	Y	OBL	Morphological adaptations* (provide
3 Equisetum arvense	5	Ν	FAC	supporting data in Remarks or on a
4 Persicaria amphibia	5	N	OBL	_separate sheet)
5 Carex pellita	5	N	OBL	Problematic hydrophytic vegetation*
6 Acer saccharinum	3	N	FACW	(explain)
7				*Indicators of hydric soil and wetland hydrology must be
8				present, unless disturbed or problematic
9				
10				Definitions of Vegetation Strata:
11				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
12				breast height (DBH), regardless of height.
13	<u> </u>			C
16				Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3 28 ft (1 m) tall
13	118 -	- Total Cover		
				Herb - All herbaceous (non-woody) plants, regardless of
Woody Vine	Absolute	Dominant	Indicator	size, and woody plants less than 3.28 ft tall.
Stratum Plot Size (30ft radius)	% Cover	Species	Status	Weady vince All woody vines greater than 3.28 ft in
1	··			height.
2				
3				
4				Hydronhytic
5				vegetation
°		- Total Cover		nracont? V
		- 10(0) 0000		
Remarks: (Include photo numbers here or on a separa	ite sheet)			
Remarks: (Include photo numbers here or on a separa Forested/emergent wetland in floodplain. A	ate sheet)	, 40% dead E	ravinus penr	sulvanica in tree stratum
Remarks: (Include photo numbers here or on a separa Forested/emergent wetland in floodplain. A	ate sheet) pproximatley	[,] 40% dead <i>Fi</i>	raxinus penr	nsylvanica in tree stratum.

SOIL							Sa	ampling Point: 3
		9						
Profile Des	cription: (Descri Matrix	ibe to th	e depth needed i Red	to docu	ment the	e indicato	or or confirm the absence	ce of indicators.)
(Inches)	Color (moist)	%	Color (moist)	%	Tvpe*	Loc**	Texture	Remarks
0-5	10YR 2/1	100					mucky peat	
5-12	10YR 2/1	98	10YR 3/6	5	С	PL	silty clay loam	
12-20	5Y 5/1	85	10YR 5/8	5	С	PL/M	sandy clay	
	10YR 2/1	10					• •	
*Type: C=C	Concentration, D	=Depleti	on, RM=Reduce	d Matri	x, CS=C	overed o	r Coated Sand Grains	
**Location:	PL=Pore Lining	, M=Mat	rix					
Hydric Soi	I Indicators:						Indicators for Pro	blematic Hydric Soils:
His	tosol (A1)		Poly	value	Below Si	urface	X 2 cm Muck (A1	0) (I RR K. I. MI RA 149B
His	tic Epipedon (A2	<u>2)</u>	(S8)) (LRR	R, MLR	A 149B)	Coast Prairie R	Redox (A16) (LRR K, L, R)
Bla	ck Histic (A3)		Thir	Dark	Surface	(S9)	5 cm Mucky Pe	eat or Peat (S3) (LRR K, L, R)
Hyd	drogen Sulfide (A	44)	(LR	RR, M	LRA 149	9B	Dark Surface (S7) (LRR K, L
Stra	atified Layers (A	5)	Loa	my Mu	cky Mine	eral (F1)	Polyvalue Belo	w Surface (S8) (LRR K, L)
	oleted Below Da	rk Surfa	ce (A11)(LR	R K, L) wod Mat	riv (E2)		ace (59) (LKK K, L)
Sar	ndv Muckv Mine	ral $(S1)$	Loa	leted N	Aatrix (F:	11A (1 <i>2)</i> 3)	Piedmont Floor	dplain Soils (F19) (MLRA 149B)
Sar	ndy Gleyed Matr	ix (S4)	X Rec	lox Dar	k Surfac	e (F6)	Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
Sar	ndy Redox (S5)	. ,	Dep	leted D	Dark Surf	face (F7)	Red Parent Ma	iterial (F21)
Stri	pped Matrix (S6)	Rec	lox Dep	pressions	s (F8)	Very Shallow D	Dark Surface (TF12)
Dar	rk Surface (S7) (LRR R,	MLRA				Other (Explain	in Remarks)
*Indicators	οf hydrophytic y	enetatio	n and wetland h	/drolog	v must h		t unless disturbed or n	roblematic
maloatoro		ogotatio		arolog	y maor b			
Restrictive	Layer (if observe	ed):						
Type:					_		Hydric soil prese	nt? Y
Depth (inch	ies):				-			
Remarks:								
rtomarto.								
L								

Project/Site: Jefferson Interurban Trail Phase 3	City/County:	Ixonia/Jeffe	erson Sampling Date: June 9, 2022
Applicant/Owner: KL Engineering, Inc.	_	State: WI	Sampling Point: 4
Investigator(s): K. Sherfinski		Section, To	wnship, Range: S27, T8N, R16E
Landform (hillslope, terrace, etc.): hilltop	Lo	cal relief (cor	ncave, convex, none): convex
Slope (%): 3-4 Lat.: Long.:		Datum:	
Soil Map Unit Name Keowns silt Ioam (Kb)			NWI Classification: none
Are climatic/hydrologic conditions of the site typical for this	s time of the year	? Yes	(If no, explain in remarks)
Are vegetation, soil, or hydrology	significantl	y disturbed?	Are "normal
Are vegetation, soil, or hydrology	naturally p	roblematic?	circumstances" present? Yes
(If needed, explain any answers in remarks)			

SUMMARY OF FINDINGS

Hydrophytic vegetation present? Hydric soil present?	N N	Is the sampled area within a wetland? N
Indicators of wetland hydrology present?	<u>N</u>	If yes, optional wetland site ID:
Remarks: (Explain alternative procedures h	ere or in a se	eparate report.)

HYDROLOGY

		Secondary Indicators (minimum of two	
Drimon, Indiantara (minimum of an a is a ser	secondary indicators (minimum or two		
Primary indicators (minimum of one is requ	required)		
Surface Water (A1)	Water-Stained Leaves (B9)	Surface Soil Cracks (B6)	
High Water Table (A2)	Aquatic Fauna (B13)	Drainage Patterns (B10)	
Saturation (A3)	Marl Deposits (B15)	Moss Trim Lines (B16)	
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)	
Sediment Deposits (B2)	Oxidized Rhizospheres on Living	Crayfish Burrows (C8)	
Drift Deposits (B3)	Roots (C3)	Saturation Visible on Aerial Imagery	
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)	(C9)	
Iron Deposits (B5)	Recent Iron Reduction in Tilled	Stunted or Stressed Plants (D1)	
Inundation Visible on Aerial	Soils (C6)	Geomorphic Position (D2)	
Imagery (B7)	Thin Muck Surface (C7)	Shallow Aguitard (D3)	
Sparsely Vegetated Concave	Other (Explain in Remarks)	EAC-Neutral Test (D5)	
Surface (B8)		Microtopographic Relief (D4)	
Field Observations:			
Surface water present? Yes	No X Depth (inches):	Indicators of	
Water table present? Ves	No X Depth (inches):		
Saturation procent?	No X Depth (inches):	bydrology	
(includes conillers frings)		N	
(includes capillary ininge)		present? N	
Describe recorded data (stream gauge, mo	nitoring well, aerial photos, previous inspec	ctions), if available:	
Remarks:			
Approximately 10-12 feet in elevati	on higher than wetland.		
	-		

-

nl .+:f: ...

		names or p	ans				
			^ bealut	- Domine	ndicator	50/20 Thresholds	200/ 50%
Tree Stratum Ple	ot Size (30ft radius			ant inuicator	Trop Stratum	20% 30%
			% COve	i opecie	S Status	Cooling/Chrub Strotum	
						Sapling/Shrub Stratum	U U
							28 /1
						Woody Vine Stratum	0 0
						Dominance Test Workshe	et
						Number of Dominant	
						Species that are OBL,	
						FACW, or FAC:	(A
						Total Number of Dominant	
						Species Across all Strata:	<u> </u>
			0	= Total Co	over	Percent of Dominant	
						Species that are OBL,	
Sapling/Shrub	ot Size (30ft radius	، Absolut	e Domina	ant Indicator	FACW, or FAC:	0.00% (A
Stratum		JUILIAGIAS) % Cove	r Specie	es Status		
				Prevalence Index Worksh	eet		
						Total % Cover of:	
						OBL species 0 x 1	= 0
						FACW species 0 x 2	2 = 0
						FAC species 13 x 3	3 = 39
						FACU species 85 x 4	= 340
						UPL species 43 x 5	$b = \frac{215}{215}$
						Column totals 141 (A)) <u>594</u> (B
						Prevalence Index = B/A =	4.21
			0	= Total Cc	over		
				—		Hydrophytic Vegetation I	ndicators:
Llash Otratum Di	-+ 0: (, Absolut	e Domina	ant Indicator	Rapid test for hydrophy	tic vegetation
Herb Stratum PI	ot Size (5tt radius) % Cove	r Specie	es Status	Dominance test is >50°	%
Poa pratensis			40	Ý	FACU	Prevalence index is ≤3.	.0*
Bromus inermis			40	Y	UPL	Morphological adaptation	ons* (provide
Achillea millefolium			30	Y	FACU	supporting data in Rem	arks or on a
Trifolium repens			10	N	FACU	separate sheet)	
Equisetum arvense			10	N	FAC	Problematic hydrophyti	c vegetation*
Taraxacum officinale)		5	N	FACU	(explain)	-
Asclepias syriaca			3	N	UPL	*Indicators of hydric soil and wet	and hydrology mus
Vitis riparia			3	N	FAC	present, unless disturbed or prob	lematic
						Definitions of Vegetation	Strata:
						Tree - Woody plants 3 in (7.6 cm	a) or more in diame
						breast height (DBH), regardless of	of height.
							Ū
						Sapling/shrub - Woody plants le	ss than 3 in. DBH a
						greater than 3.28 ft (1 m) tall.	
			141	= Total Co	over	Herb - All berbaceous (non-wood	ly) plants regardles
						size, and woody plants less than	3.28 ft tall.
Woody Vine Ple	ot Size (30ft radius) Absolut	e Domina	ant Indicator		
Stratum			% Cove	r Specie	es Status	Woody vines - All woody vines g	reater than 3.28 ft i
						height.	
						Hydrophytic	
						vegetation	
			0	= Total Co	over	present? N	
							-
						-	·
marks: (Include photo n	umbers h	ere or on a se	parate sheet)				
marks: (Include photo n Mowed old field on ra	umbers h aised dr	ere or on a se ive betweer	parate sheet) i utility poles				
marks: (Include photo n Mowed old field on ra	umbers h aised dr	ere or on a se ive betweer	parate sheet) i utility poles				

SOIL								Sampling Point: 4	
Profile Des	cription: (Descri	be to th	e depth needed	to docu	ment the	indicato	or or confirm the abse	nce of indicators.)	
Depth	Matrix		Rec	Redox Features			Texture	Remarks	
(Inches) 0-5	10YR 3/2	% 100	Color (moist)	%	Type [*]	LOC	sandv loam	gravelly	
							oundy rounn	gravery	
*Type: C-C	Concentration D	-Donlati	ion RM-Reduce	d Matri	x <u> </u>	overed o	r Costed Sand Grain	<u> </u>	
**Location:	PL=Pore Lining,	M=Mat	rix		x, 00–0	overeu u	Coaled Sand Grain	5	
Hydric Soi	I Indicators:						Indicators for P	roblematic Hydric Soils:	
His His Bla Hyd Str De Thi Sau Sau Sau Sau Sau Sau Sau Sau Sau Sau	Histosol (A1) Polyvalue Below Surface Histic Epipedon (A2) (S8) (LRR R, MLRA 149B) Black Histic (A3) Thin Dark Surface (S9) Hydrogen Sulfide (A4) (LRR R, MLRA 149B) Stratified Layers (A5) Loamy Mucky Mineral (F1) Depleted Below Dark Surface (A11) (LRR K, L) Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) Sandy Mucky Mineral (S1) Depleted Matrix (F3) Sandy Redox (S5) Depleted Dark Surface (F6) Stripped Matrix (S6) Depleted Dark Surface (F7) Matrix (S6) Redox Depressions (F8) Dark Surface (S7) (LRR R, MLRA 149B) Indicators of hydrophytic vegetation and wetland hydrology must be present						2 cm Muck (A10) (LRR K, L, MLRA 149B Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) () Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks)		
Restrictive Type: <u>c</u> Depth (inch	Layer (if observe ravel fill les): <u>5</u>	ed):			-		Hydric soil pre	sent? <u>N</u>	
Refusal	at 5 inches du	ue to s	olid gravel fill.						

Project/Site: Jefferson Interurban Trail Phase 3	City/County:	Ixonia/Jefferson	Sampling Date: June 9, 2	022
Applicant/Owner: KL Engineering, Inc.		State: WI	Sampling Point:	5
Investigator(s): K. Sherfinski		Section, Township	o, Range: S27, T8N, R16E	
Landform (hillslope, terrace, etc.): toe of slope	Lo	cal relief (concave,	convex, none): concave	
Slope (%): 0-2 Lat.:	Long.:	Datum:		
Soil Map Unit Name Keowns silt Ioam (Kb)		NWI	Classification: none	
Are climatic/hydrologic conditions of the site typical f	for this time of the year	? Yes (If no,	explain in remarks)	
Are vegetation, soil, or hydrolog	gysignificantl	y disturbed?	Are "normal	
Are vegetation, soil, or hydrolog	gy naturally p	oblematic?	circumstances" present?	Yes
(If needed, explain any answers in remarks)				

SUMMARY OF FINDINGS

Hydrophytic vegetation present? Hydric soil present?	<u>Y</u> Y	Is the sampled area within a wetland?
Indicators of wetland hydrology present?	Y	If yes, optional wetland site ID:
Remarks: (Explain alternative procedures	here or in a se	eparate report.)

HYDROLOGY

Primary Indicators (minimum of one is requ X Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial	 dired; check all that apply) X Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) 	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) X Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) X Geomorphic Position (D2)		
Sparsely Vegetated Concave Surface (B8)	Other (Explain in Remarks)	X FAC-Neutral Test (D5) Microtopographic Relief (D4)		
Field Observations: Yes X Surface water present? Yes X Water table present? Yes Yes Saturation present? Yes Yes (includes capillary fringe) Yes Yes	NoDepth (inches):2NoXDepth (inches):NoXDepth (inches):	Indicators of wetland hydrology present? Y		
Describe recorded data (stream gauge, mo	nitoring well, aerial photos, previous inspec	ctions), if available:		
Remarks:				

-

otifi of nlant . .

/EGETATION - Use scientific names of p	lants			Sampling Point: 5
	Absolute	Dominant	Indicator	50/20 Thresholds
Tree Stratum Plot Size (30ft radius) % Cover	Species	Status	Tree Stratum 0 0
1				Sapling/Shrub Stratum 6 15
2				Herb Stratum 22 56
3				Woody Vine Stratum 0 0
4				Dominance Test Workshoet
o				Number of Dominant
7		·	·	Species that are OBL.
8				FACW, or FAC: 2 (A)
9				Total Number of Dominant
0				Species Across all Strata: 2 (B)
	0	= Total Cover		Percent of Dominant
		D	L. P. M.	Species that are OBL,
Stratum Plot Size (30ft radius) Absolute	Dominant	Indicator	FACW, or FAC: 100.00% (A/B)
	% Cover	Species	Status	
Salix interior		<u> </u>	FACW	Prevalence Index Worksheet
2				Total % Cover of:
3				OBL species $0 \times 1 = 0$
				FACVV species $135 \times 2 = 270$
o				FAC species $5 \times 3 = 15$
7				$\frac{1}{1} \text{Pl species} = \frac{1}{2} \text{ x } 5 = -\frac{10}{10}$
3				Column totals 142 (A) 295 (B)
9		·		Prevalence Index = $B/A = 2.08$
)				
	30	= Total Cover		
				Hydrophytic Vegetation Indicators:
Herb Stratum Plot Size (5ft radius	Absolute	Dominant	Indicator	Rapid test for hydrophytic vegetation
	/ % Cover	Species	Status	X Dominance test is >50%
1 Phalaris arundinacea		<u> </u>	FACW	X Prevalence index is ≤3.0*
2 Salix Interior	5	<u> </u>		Morphological adaptations [*] (provide
Convoluulus arvensis		N		supporting data in Remarks of on a
5	2			Problematic hydrophytic vegetation*
5 6		·		(explain)
7				*Indicators of bydric soil and wetland bydrology must be
3				present, unless disturbed or problematic
9				
0				Definitions of Vegetation Strata:
2				Tree - Woody plants 3 in. (7.6 cm) or more in diameter a
3				breast neight (DDH), regardless of neight.
4 5				Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
	112	= Total Cover		
		_ .		size, and woody plants less than 3.28 ft tall.
Woody Vine Plot Size (30ft radius) Absolute	Dominant	Indicator	
Stratum	% Cover	Species	Status	Woody vines - All woody vines greater than 3.28 ft in
2				neignt.
3				
4				Hydrophytic
5				vegetation
	0	= Total Cover		present? Y
emarks: (Include photo numbers here or on a se	parate sheet)			<u> </u>
Shrub-scrub/emergent wetland .				
-				

SOIL							S	ampling Point: 5
Protile Description: (Describe to the depth needed to document the document t						e indicato	or or confirm the absen	ce of indicators.)
(Inches)	Color (moist)	%	Color (moist)	%	Type*	Loc**	Texture	Remarks
0-2	10YR 2/1	100					mucky peat	
2-19	10YR 2/1	97	10YR 4/6	3	С	PL	silty clay loam	
	->					5. 44		
19-27	5Y 4/1	80	10YR 4/6	10	С	PL/M	sandy clay	
	10 f R 2/1	10						<u> </u>
* T 0.0		Distat		L M a f a	00.0		0	
**Location	PI =Pore Lining	Depleti M=Mat	ion, RM=Reduce rix	ed Matri	x, CS=C	overed c	or Coated Sand Grains	
Hydric Soi	I Indicators:	, 11–1114					Indicators for Pro	blematic Hydric Soils:
Hydric Soil Indicators: Indicators for Problematic Hydric Soils:								

Project/Site: Jefferson Interurban Trail Phase 3	City/County:	Ixonia/Jeffe	rson Sampling Date: Jur	ne 9, 2022
Applicant/Owner: KL Engineering, Inc.	_	State: WI	Sampling Point	t: 6
Investigator(s): K. Sherfinski		Section, To	wnship, Range: S27, T8N,	R16E
Landform (hillslope, terrace, etc.): toe of slope	Loc	al relief (con	ncave, convex, none): cor	ncave
Slope (%): 0-2 Lat.: Long.:		Datum:		
Soil Map Unit Name Keowns silt Ioam (Kb)			NWI Classification: none	
Are climatic/hydrologic conditions of the site typical for this	time of the year	? Yes	(If no, explain in remarks)	
Are vegetation, soil, or hydrology	significantly	/ disturbed?	Are "normal	
Are vegetation , soil , or hydrology	naturally pr	oblematic?	circumstances" pre	esent? Yes
(If needed, explain any answers in remarks)				

SUMMARY OF FINDINGS

Hydrophytic vegetation present? Hydric soil present?	<u>Y</u> Y	Is the sampled area within a wetland?					
Indicators of wetland hydrology present?	Y	If yes, optional wetland site ID:	_				
Remarks: (Explain alternative procedures here or in a separate report.)							

HYDROLOGY

		Secondary Indicators (minimum of two
Primary Indicators (minimum of one is required; ch	required)	
Surface Water (A1) X Wa	ater-Stained Leaves (B9)	Surface Soil Cracks (B6)
X High Water Table (A2) Aq	uatic Fauna (B13)	X Drainage Patterns (B10)
X Saturation (A3) Ma	rl Deposits (B15)	Moss Trim Lines (B16)
X Water Marks (B1) Hyd	drogen Sulfide Odor (C1)	Dry-Season Water Table (C2)
X Sediment Deposits (B2)	idized Rhizospheres on Living	Cravfish Burrows (C8)
Drift Deposits (B3)	ots (C3)	Saturation Visible on Aerial Imagery
Algal Mat or Crust (B4)	esence of Reduced Iron (C4)	(C9)
Iron Deposits (B5)	cent Iron Reduction in Tilled	Stunted or Stressed Plants (D1)
Inundation Visible on Aerial So	ils (C6)	X Geomorphic Position (D2)
Imagery (B7) Thi	n Muck Surface (C7)	Shallow Aguitard (D3)
Sparsely Vegetated Concave Oth	ner (Explain in Remarks)	X FAC-Neutral Test (D5)
Surface (B8)	(Microtopographic Relief (D4)
	-	
Field Observations:		
Surface water present? Yes No	X Depth (inches):	Indicators of
Water table present? Yes X No	Depth (inches): 9	wetland
Saturation present? Yes X No	Depth (inches): At surface	hydrology
(includes capillary fringe)		present? Y
Describe recorded data (stream gauge, monitoring	well, aerial photos, previous inspection	ons), if available:
		··
Remarks:		

VEGETATION - Use scientific names of plants

EGETATION - Use scientific names of plan	ts			Sampling Point: 6
·				50/20 Thresholds
Trop Stratum Plot Size (20ft radius)	Absolute	Dominant	Indicator	20% 50%
Thee Stratum Piot Size (Soft Tadius)	% Cover	Species	Status	Tree Stratum 10 25
I Populus deltoides	30	Y	FAC	Sapling/Shrub Stratum 3 8
2 Salix nigra	20	Y	OBL	Herb Stratum 27 67
3				Woody Vine Stratum 0 0
4				
				Dominance Test Worksheet
<u> </u>				Number of Dominant
7				Species that are OBI
3				EACW or EAC: 5 (A)
9				Total Number of Dominant
)				Species Across all Strata: 5 (B)
	50	- Total Cover		
				Percent of Dominant
				Species that are OBL,
Sapling/Shrub Plot Size (30ft radius)	Absolute	Dominant	Indicator	FACW, or FAC: <u>100.00%</u> (A/E
Stratum	% Cover	Species	Status	
Salix interior	10	Y	FACW	Prevalence Index Worksheet
Cornus alba	5	V	EAC/W/	Total % Cover of:
			TAON	$OBL species 43 \times 1 - 43$
3				$\begin{array}{c} \text{OBL Species} 43 \text{x f} = 43 \\ \text{EACW appasing} 422 \text{x f} = 246 \\ \text{ACW appasing} 422 \text{x f} = 246 \\ \text{ACW appasing} 422 \text{x f} = 43 \\ \text{ACW appasing} 422 \text{x f} = 43 \\ \text{ACW appasing} 422 \text{x f} = 43 \\ \text{ACW appacing} 423 \text{x f} = 43 \\ \text{ACW appacing} 43 \text{x f} = 43 \\ \text{ACW appacing} 43 \text{x f} = 43 $
+				FACW species $123 \times 2 = 246$
				FAC species $30 \times 3 = 90$
				FACU species $3 \times 4 = 12$
				$\begin{array}{c} \text{UPL species} 0 \text{x 5} = 0 \\ \hline \end{array} $
3				Column totals 199 (A) 391 (B)
)				Prevalence Index = $B/A = 1.96$
)				
	15 =	 Total Cover 		
				Hydrophytic Vegetation Indicators:
Horb Strotum Dist Size / Eft radius)	Absolute	Dominant	Indicator	Rapid test for hydrophytic vegetation
Herb Stratum Piot Size (Sit radius)	% Cover	Species	Status	X Dominance test is >50%
1 Phalaris arundinacea	100	Ý	FACW	X Prevalence index is ≤3.0*
2 Carex lacustris	20	N	OBL	Morphological adaptations* (provide
3 Pilea pumila	5	N	FACW	supporting data in Remarks or on a
Persicaria amphibia	3	N	OBI	separate sheet)
5 Vicia americana	3	N	FACU	Problematic hydrophytic vegetation*
Salix interior	3	<u> </u>	FACW	(explain)
7			17.011	
2				Indicators of hydric soil and wetland hydrology must b
<u> </u>				present, unless disturbed of problematic
				Definitions of Verstetion Strates
J				Definitions of vegetation Strata:
				Tree - Woody plants 3 in. (7.6 cm) or more in diameter
				breast height (DBH), regardless of height.
3				
1				Sapling/shrub - Woody plants less than 3 in. DBH and
5				greater than 3.28 ft (1 m) tall.
	134 =	 Total Cover 		
				Herb - All herbaceous (non-woody) plants, regardless
Woody Vine	Absolute	Dominant	Indicator	size, and woody plants less than 3.28 ft tall.
Stratum Plot Size (30ft radius)	% Cover	Species	Status	Woody vines - All woody vines greater than 3.28 ft in
1	,			height
)				noight.
ł				Hydrophytic
				vegetation
5		Tatal Oausan		nresent? V
5	0 =	= Total Cover		
5		= Total Cover		
5	0 =	= Total Cover		
marks: (Include photo numbers here or on a separa	e		P	

SOIL							S	ampling Point:	6
Profile Description: (Describe to the depth needed to document Depth Matrix Redox Features					ment the	e indicato	or or confirm the absend	sence of indicators.)	
(Inches)	Color (moist)	%	Color (moist)	%	Type*	Loc**	Texture	Remarks	
0-8	N2.5/	100					muck		
8-17	N2.5/	97	10YR 4/4	3	С	PL	silty clay loam		
47.04		00		40	_				
17-24	2.5Y 5/2	80	10YR 5/8	10	C	PL/M	sandy clay		
	IN2.5/	10							
*Type: C=C	Concentration, D	=Depleti	ion, RM=Reduce	d Matri	x, CS=C	overed c	or Coated Sand Grains		
Hydric Soi		, ivi=iviat					Indicators for Pro	blematic Hydric Soils	
	i malcators.								
His	tosol (A1)		Poly	yvalue I	Below Su	urface	2 cm Muck (A1	0) (LRR K, L, MLRA 1	49B
His	tic Epipedon (A	2)	(S8) (LRR	R, MLR	A 149B)	Coast Prairie F	Redox (A16) (LRR K, L	, R)
	ck histic (A3) Trogen Sulfide (A4)	i nir (I R	RR M	Surrace	(59))B	Dark Surface (S7) (I RR K . I	r, l, r)
Stra	atified Layers (A	(5)	Loa	my Mu	cky Mine	eral (F1)	Polyvalue Belo	w Surface (S8) (LRR F	K , L)
De	pleted Below Da	ark Surfa	ce (A11)(LR	R K, L))		Thin Dark Surf	ace (S9) (LRR K, L)	
X Thi	ck Dark Surface	e (A12)	Loa	my Gle	yed Mat	rix (F2)	Iron-Manganes	se Masses (F12) (LRR	K, L, R)
Sa	ndy Mucky Mine	rix (S4)		lox Dar	k Surfac	o) e (F6)	Mesic Spodic (TA6) (MLRA 144A. 14	5. 149B)
Sa	ndy Redox (S5)		Dep	pleted D	ark Surf	ace (F7)	Red Parent Ma	aterial (F21)	-, -,
Str	pped Matrix (Se	6)	Rec	lox Dep	pressions	s (F8)	Very Shallow D	Dark Surface (TF12)	
Dai 140	rk Surface (S7)	(LRR R,	MLRA				Other (Explain	in Remarks)	
*Indicators	of hydrophytic v	vegetatio	n and wetland hy	drolog	v must b	e preser	t, unless disturbed or p	roblematic	
	, , ,	0		, 0.	,		, I		
Destrict		. 1)							
Restrictive	Layer (If observ	ea):					Hydric soil prese	nt? Y	
Depth (inch	ies):				_				
· ·									
Remarks:									
L									

Project/Site: Jefferson Interurban Trail Phase 3	City/County:	Ixonia/Jeffe	erson Sampling Date:	June 9, 20)22
Applicant/Owner: KL Engineering, Inc.	_	State: WI	Sampling P	Point:	7
Investigator(s): K. Sherfinski		Section, To	wnship, Range: S27, T8	3N, R16E	
Landform (hillslope, terrace, etc.): depression	Loc	cal relief (cor	ncave, convex, none):	concave	
Slope (%): 0-2 Lat.: Long.:		Datum:			
Soil Map Unit Name Lamartine silt Ioam (LaB)			NWI Classification: nor	ne	
Are climatic/hydrologic conditions of the site typical for this	time of the year	? Yes	(If no, explain in remark	ks)	
Are vegetation, soil, or hydrology	significantly	/ disturbed?	Are "normal		
Are vegetation , soil , or hydrology	naturally pr	oblematic?	circumstances"	present?	Yes
(If needed, explain any answers in remarks)					

SUMMARY OF FINDINGS

Hydrophytic vegetation present? Hydric soil present?	<u>Y</u> Y	Is the sampled area within a wetland? Y					
Indicators of wetland hydrology present?	Y	If yes, optional wetland site ID:					
Remarks: (Explain alternative procedures here or in a separate report.)							

HYDROLOGY

Primary Indicators (minimum of one is required; check all that apply) required)			
Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6)			
X High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10)			
X Saturation (A3) Marl Deposits (B15) Moss Trim Lines (B16)			
Water Marks (B1) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2)			
Sediment Deposits (B2) Oxidized Rhizospheres on Living Crayfish Burrows (C8)			
Drift Deposits (B3) Roots (C3) Saturation Visible on Aerial Image	erv		
Algal Mat or Crust (B4) Presence of Reduced Iron (C4) (C9)	,		
Iron Deposits (B5) Recent Iron Reduction in Tilled Stunted or Stressed Plants (D1)			
Inundation Visible on Aerial Soils (C6) X Geomorphic Position (D2)			
Imagery (B7) Thin Muck Surface (C7) Shallow Aquitard (D3)			
Sparsely Vegetated Concave Other (Explain in Remarks) X FAC-Neutral Test (D5)	X FAC-Neutral Test (D5)		
Surface (B8) Microtopographic Relief (D4)	Microtopographic Relief (D4)		
Field Observations:			
Surface water present? Yes No X Depth (inches): Indicators of			
Water table present? Yes X No Depth (inches): 6 wetland			
Saturation present? Yes X No Depth (inches): At surface hydrology			
(includes capillary fringe) present? Y			
Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks:			

ontifi of nlant

•	ts			Sampling Point: 7
	Absolute	Dominant	Indicator	50/20 Thresholds
Tree Stratum Plot Size (30ft radius)	% Cover	Species	Status	Tree Stratum 0 0
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	openie	Claide	Sapling/Shrub Stratum 0 0
				Herb Stratum 29 73
				Woody Vine Stratum 0 0
		<u> </u>		Dominance Test Worksheet
				Number of Dominant
				Species that are OBL,
				FACW, or FAC: <u>3</u> (A)
				I otal Number of Dominant
		- Total Cover		Species Across all Strata: <u>3</u> (B)
				Percent of Dominant
Sanling/Shrub	Absolute	Dominant	Indicator	EACW or EAC: 100.00% (A/B)
Stratum Plot Size (30ft radius)	% Cover	Species	Status	
				Prevalence Index Worksheet
				Total % Cover of:
				OBL species $70 \times 1 = 70$
				FACW species $50 \times 2 = 100$
				FAC species $25 \times 3 = 75$
				$\begin{array}{c c} 1 & -1 & -1 \\ 1 & -1 & -1 \\ 1 & -1 & -1$
				Column totals 145 (A) 245 (R)
				Prevalence Index = $B/A = 1.69$
	0 =	Total Cover		Hudrophytic Vegetation Indicators
	Absolute	Dominant	Indicator	Rapid test for hydrophytic vegetation
Herb Stratum Plot Size (5ft radius)	% Cover	Species	Status	$\frac{1}{X}$ Dominance test is >50%
Phalaris arundinacea	40	Y	FACW	$\frac{1}{X}$ Prevalence index is $\leq 3.0^*$
Carex stricta	40	Y	OBL	Morphological adaptations* (provide
Eleocharis palustris	30	Y	OBL	supporting data in Remarks or on a
Frangula alnus	20	N	FAC	separate sheet)
Salix interior	10	N	FACW	Problematic hydrophytic vegetation*
Equisetum arvense	5	N	FAC	(explain)
				*Indicators of hydric soil and wetland hydrology must be
				present, unless disturbed or problematic
				Definitions of Vegetation Strata:
				Trap Weady plants 2 in (7.6 cm) or more in diameter
		. <u></u>		breast height (DBH), regardless of height.
				Sapling/shrub - Woody plants less than 3 in. DBH and
	1/5	- Total Cover		greater than 3.28 ft (1 m) tall.
	140			Herb - All herbaceous (non-woody) plants, regardless o
Noody Vine Plot Size (20ft radius)	Absolute	Dominant	Indicator	size, and woody plants less than 3.28 ft tall.
Stratum	% Cover	Species	Status	Woody vines - All woody vines greater than 3.28 ft in
				height.
				Hydronbytic
	0	Total Cover		present? Y

SOIL							S	ampling Point: 7
Profile Des	cription: (Descri	be to th	e depth needed	to docu	ment the	e indicato	or or confirm the absen	ce of indicators.)
(Inches)	Color (moist)	%	Color (moist)	0X Feat %	Tvpe*	Loc**	Texture	Remarks
0-10	10YR 2/2	90	10YR 3/6	10	C	PL	clay loam	
							·	
10-14	10YR 4/2	85	10YR 4/6	15	С	PL/M	sandy clay	gravelly
*Type: C=C	Concentration, D	=Deplet	ion, RM=Reduce	d Matri	x, CS=C	overed o	r Coated Sand Grains	
**Location:	PL=Pore Lining,	M=Mat	irix					
Hydric Soi	I Indicators:						Indicators for Pro	blematic Hydric Soils:
Histosol (A1) Polyvalue Below Surface 2 cm Muck (A10) (LRR K, L, MLRA 149B Histic Epipedon (A2) (S8) (LRR R, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) (LRR R, MLRA 149B 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Stratified Layers (A5) Loamy Mucky Mineral (F1) Dark Surface (S7) (LRR K, L) Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) Thin Dark Surface (S9) (LRR K, L, R) Sandy Mucky Mineral (S1) X Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA 144B Sandy Redox (S5) Depleted Dark Surface (F7) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) *Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Other (Explain in Remarks)								10) (LRR K, L, MLRA 149B Redox (A16) (LRR K, L, R) eat or Peat (S3) (LRR K, L, R) (S7) (LRR K, L ow Surface (S8) (LRR K, L) face (S9) (LRR K, L) se Masses (F12) (LRR K, L, R) dplain Soils (F19) (MLRA 149B) (TA6) (MLRA 144A, 145, 149B) aterial (F21) Dark Surface (TF12) in Remarks) problematic
Restrictive Type: <u>ç</u> Depth (inch	Layer (if observe ravel fill res): 14	ed):			-		Hydric soil prese	ent? <u>Y</u>
Refusal	at 14 inches o	due to	solid gravel fill					

Project/Site: Jefferson Interurban Trail Phase 3	City/County:	Ixonia/Jeffe	erson Sampling Date: June 9, 2022	2
Applicant/Owner: KL Engineering, Inc.	_	State: WI	Sampling Point: 8	
Investigator(s): K. Sherfinski		Section, To	wnship, Range: S27, T8N, R16E	
Landform (hillslope, terrace, etc.): top of berm	Loc	al relief (co	ncave, convex, none): convex	
Slope (%): 3-4 Lat.: Long.:		Datum		
Soil Map Unit Name Lamartine silt Ioam (LaB)			NWI Classification: none	
Are climatic/hydrologic conditions of the site typical for this	time of the year	? Yes	(If no, explain in remarks)	
Are vegetation, soil, or hydrology	significantly	/ disturbed?	Are "normal	
Are vegetation, soil, or hydrology	naturally pr	oblematic?	circumstances" present?	Yes
(If needed, explain any answers in remarks)				

SUMMARY OF FINDINGS

Hydrophytic vegetation present? Hydric soil present?	N N	Is the sampled area within a wetland? N
Indicators of wetland hydrology present?	<u>N</u>	If yes, optional wetland site ID:
Remarks: (Explain alternative procedures h	ere or in a se	eparate report.)

HYDROLOGY

		Secondary Indicators (minimum of two		
Deine and Indiantana (minimum of an a is now	in the stand of the stand of	Secondary indicators (minimum of two		
Primary indicators (minimum of one is requ	required)			
Surface Water (A1)	Surface Soil Cracks (B6)			
High Water Table (A2)	Aquatic Fauna (B13)	Drainage Patterns (B10)		
Saturation (A3)	Marl Deposits (B15)	Moss Trim Lines (B16)		
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)		
Sediment Deposits (B2)	Oxidized Rhizospheres on Living	Crayfish Burrows (C8)		
Drift Deposits (B3)	Roots (C3)	Saturation Visible on Aerial Imagery		
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)	(C9)		
Iron Deposits (B5)	Recent Iron Reduction in Tilled	Stunted or Stressed Plants (D1)		
Inundation Visible on Aerial	Soils (C6)	Geomorphic Position (D2)		
Imagery (B7)	Thin Muck Surface (C7)	Shallow Aquitard (D3)		
Sparsely Vegetated Concave	Other (Explain in Remarks)	FAC-Neutral Test (D5)		
Surface (B8)		Microtopographic Relief (D4)		
Field Observations:				
Surface water present? Yes	No X Depth (inches):	Indicators of		
Water table present? Yes	No X Depth (inches):	wetland		
Saturation present? Yes	No X Depth (inches):	hvdrology		
(includes capillary fringe)				
Describe recorded data (stream dauge mo	pritoring well aerial photos, previous inspe	ctions) if available:		
Describe recorded data (stream gauge, me	sintoning weil, dendi photos, previous inspe			
Pomarka:				
Annualis.				
Approximately 3 feet in elevation higher than wetland.				

-

e scientific of plant

GETATION - Use scientific names of plants				Sampling Point: 8
	Abaaluta	Dominant	Indicator	50/20 Thresholds
Free Stratum Plot Size (30ft radius)		Dominant	Indicator	20% 50%
	% Cover	Species	Status	Sopling/Shrub Strotum
				Saping/Shiub Shatum 0 0
				Herb Stratum 21 54
				woody vine stratum 0 0
				Dominance Test Worksheet
				Number of Dominant
				Species that are OBL,
				FACW, or FAC: 0 (A)
				Total Number of Dominant
				Species Across all Strata: 1 (B)
-	0 =	= Total Cover		Percent of Dominant
				Species that are OBL,
Sapling/Shrub Plot Size(30ft radius) Stratum	Absolute % Cover	Dominant Species	Indicator Status	FACW, or FAC: <u>0.00%</u> (A/E
				Prevalence Index Worksheet
				Total % Cover of:
				OBL species 0 x 1 = 0
				FACW species 0 x 2 = 0
				FAC species <u>25</u> x 3 = <u>75</u>
				FACU species $10 \times 4 = 40$
				UPL species <u>72</u> x 5 = <u>360</u>
				Column totals <u>107</u> (A) <u>475</u> (B)
				Prevalence Index = $B/A = 4.44$
	0	- Total Covor		
-	0			Hydrophytic Vegetation Indicators:
	Absolute	Dominant	Indicator	Rapid test for hydrophytic vegetation
Herb Stratum Plot Size (5ft radius)	% Cover	Species	Status	Dominance test is >50%
Bromus inermis	70	Y	UPI	$\frac{1}{2}$ Prevalence index is <3.0*
Vitis riparia	20	<u> </u>	FAC	Morphological adaptations* (provide
Polygonatum biflorum	10	N	FACU	supporting data in Remarks or on a
Fauisetum arvense	5	N	FAC	separate sheet)
Asclepias svriaca	2	N	UPI	Problematic hydrophytic vegetation*
				(explain)
				*Indicators of bydric soil and wetland bydrology must h
				present, unless disturbed or problematic
				Definitions of Vegetation Strata:
				Tree - Woody plants 3 in. (7.6 cm) or more in diamete
				breast neight (DBH), regardless of neight.
				Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
	107 :	= Total Cover		Herb - All herbaceous (non-woody) plants, regardless
Woody Vine	Absolute	Dominant	Indicator	size, and woody plants less than 3.28 ft tall.
Stratum Plot Size (30ft radius)	% Cover	Species	Status	We during All we during greater than 2.20 ft in
	,	opooloo	010100	height.
				Hydrophytic
				vegetation
	0 :	= Total Cover		present? N
narks: (Include photo numbers here or on a separate	e sheet)			
0ld field.				

SOIL								Sampling Point:	8
Profile Des	cription: (Descri	be to th	e depth needed	to docu	ment the	indicato	or or confirm the abse	ence of indicators.)	
(Inches)	Color (moist)	%	Redox Features		L oc**	Texture	Remar	ks	
0-7	10YR 3/2	100		70	Type	200	silty clay loam		
	101110/2	100					enty enty learn		
* T 0		Destat		1.8.4 - 4 - 2					
**Location:	PI –Pore Lining	Deplet	ion, RM=Reduce	d Matri	x, CS=C	overed c	r Coated Sand Grain	IS	
Hvdric Soi	I Indicators:	ivi–iviai					Indicators for F	Problematic Hydric S	oils:
	i maloatoro.								0110.
His Bla Hyu Str De Thi Sau Sau Sau Sau Sau 149	Histosol (A1)Follyvalde below SuffaceHistosol (A1)(S8) (LRR R, MLRA 149B)Black Histic (A3)Thin Dark Surface (S9)Hydrogen Sulfide (A4)(LRR R, MLRA 149B)Stratified Layers (A5)Loamy Mucky Mineral (F1)Depleted Below Dark Surface (A11)(LRR K, L)Thick Dark Surface (A12)Loamy Gleyed Matrix (F2)Sandy Mucky Mineral (S1)Depleted Matrix (F3)Sandy Gleyed Matrix (S4)Redox Dark Surface (F6)Sandy Redox (S5)Depleted Dark Surface (F7)Stripped Matrix (S6)Redox Depressions (F8)Dark Surface (S7) (LRR R, MLRA149B)					K, L, R) RR K, L, R) RR K, L, R) MLRA 149B) , 145, 149B)			
Indicators	of hydrophytic ve	egetatio	n and wetland hy	yarology	y must d	e presen	t, uniess disturbed o	r problematic	
Restrictive Type: <u>ç</u> Depth (inch	Layer (if observe gravel fill nes):7	ed):			-		Hydric soil pre	sent? <u>N</u>	
Remarks: Refusal	at 7 inches du	ue to s	olid gravel fill.						

Project/Site: Jefferson Interurban Trail Phase 3	City/County:	Ixonia/Jeffe	rson Sampling Date: June 9, 202	22
Applicant/Owner: KL Engineering, Inc.		State: WI	Sampling Point:	9
Investigator(s): K. Sherfinski		Section, To	wnship, Range: S27, T8N, R16E	
Landform (hillslope, terrace, etc.): depression	Lo	cal relief (cor	ncave, convex, none): <u>concave</u>	
Slope (%): 0-2 Lat.: Long	.:	Datum:		
Soil Map Unit Name Wauconda silt Ioam (WvB)			NWI Classification: none	
Are climatic/hydrologic conditions of the site typical for thi	is time of the year	? Yes	(If no, explain in remarks)	
Are vegetation, soil, or hydrology	significantl	y disturbed?	Are "normal	
Are vegetation, soil, or hydrology	naturally p	roblematic?	circumstances" present?	Yes
(If needed, explain any answers in remarks)				

SUMMARY OF FINDINGS

Hydrophytic vegetation present? Hydric soil present?	<u>Y</u> Y	Is the sampled area within a wetland?			
Indicators of wetland hydrology present?	Y	If yes, optional wetland site ID:			
Remarks: (Explain alternative procedures here or in a separate report.)					

HYDROLOGY

Primary Indicators (minimum of one is requ Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial	uired; check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7)	Secondary Indicators (minimum of two required) X Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) X Geomorphic Position (D2) Shallow Aquitard (D3)
Sparsely Vegetated Concave Surface (B8)	Other (Explain in Remarks)	X FAC-Neutral Test (D5) Microtopographic Relief (D4)
Field Observations: Surface water present? Yes Water table present? Yes Saturation present? Yes (includes capillary fringe)	No X Depth (inches): No X Depth (inches): No Depth (inches): At surface	Indicators of wetland hydrology present? Y
Describe recorded data (stream gauge, mo	onitoring well, aerial photos, previous inspe	ctions), if available:
Remarks: Water table was not located; there	fore A3 was not checked.	
. tifi of nla .

Tree Stratum Plot Size (30ft radius) Absolute % Cover Dominant Species Indicator Status Status 1	Sampling Point:	9
Tree Stratum Plot Size (30ft radius) Poolstore Status Tree Stratuu Species Status Status Status Status Status Sapling/Shrub Plot Size (30ft radius) Absolute Dominant Indicator Species that Status Species Status Status Prevalence Prevalence Species Status Species Status Prevalence Species Status Species Status Prevalence Status Species Status Species Status Prevalence Species Status Species Status Prevalence Species Status Species Status Prevalence Species Status Species Species Probating array Species Status Species <th>sholds 20%</th> <th>50%</th>	sholds 20%	50%
apling/Shrub Plot Size (30ft radius) Absolute Dominant Indicator spling/Shrub Plot Size (30ft radius) Absolute Dominant Indicator Stratum Plot Size (30ft radius) Absolute Dominant Indicator Stratum Plot Size (30ft radius) Absolute Dominant Indicator Prevalence	n ()	0070
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Image: Structure Image: Structure <td< td=""><td>Stratum 0</td><td>0</td></td<>	Stratum 0	0
Image: Shrub species Arrow and the species of the	Test Worksheet	
Image: September 2 Image: September 2 Image: September 2	Dominant	
	t are OBL,	
	AC: 1	(A)
Sapling/Shrub Plot Size (30ft radius) Absolute Dominant Indicator Stratum Plot Size (30ft radius) Absolute Dominant Indicator Stratum Plot Size (30ft radius) Absolute Dominant Indicator Stratum Indicator Species Mark FACW, or F Stratum Indicator Species Mark FACW, or F Indicator Stratum FAC specie FAC specie Indicator Stratum Plot Size (5ft radius) Absolute Dominant Indicator Phalaris arundinacea 10 N OBL X Dominant Indicator Carex stricta 10 N FACU Separation Support Poa pratensis 5 N FACU Separation Support Sambucus nigra 2 N FACU Separations of present, unless Status The Mark of Morphois Sambucus nigra 2 N FACU Separations of present, unless Separations of present, unless Status The Mark of Morphois Cirislum arvense 1 N FACU	er of Dominant	
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Sapling/Shrub Stratum Plot Size (30ft radius) Absolute % Cover Dominant Species Indicator Status Species tha FACW, or F Image: Stratum Plot Size (30ft radius) Mosolute % Cover Dominant marks: (Include photo numbers here or on a separate sheet) Dominant % Cover Indicator Species Prevalence FAC specie Column tota Image: Stratum Plot Size (5ft radius) Absolute % Cover Dominant % Cover Indicator Species Hydrophyti Rapid te X Domina Prevalence Image: Stratum Plot Size (5ft radius) Absolute % Cover Dominant % Cover Indicator Species Phalaris arundinacea 40 Y FACU Rapid te X Domina Abutilon theophrasti 5 N FACU Morpho support Sambucus higpidus 1 N FACU Provalence Image: Stratum Plot Size (30ft radius) Absolute % Cover Dominant % Cover Indicator % Cover Satus Image: Stratum Plot Size (30ft radius) Absolute % Cover Dominant % Cover Indicator % Cover Satus Image: Stratum Plot Size (30ft radius) Absolute % Cover Dominant % Cover Indicator % Cover Status <	Dominant	
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Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system <	Index Worksheet	
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OBL Specie Control	10 v 1	10
Image: Second	$\frac{10}{10}$ x $1 = $	10
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Image: Solution of the second seco	s <u>1</u> x 3 =	3
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Image: Construct of the second sec	Index = $B/A = 2.2$	20
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3 Ranunculus hispidus 1 N FAC	natic hydrophytic vegeta	ation*
Cirsium arvense 1 N FACU "Indicators of the present, unless of the present of t)	
Barrier Stratum Plot Size (30ft radius) Absolute Merb - All herb - All herb size, and wood yours height. Woody Vine Stratum Plot Size (30ft radius) Absolute Merb - All herb size, and wood yours height. Woody Vine Stratum Plot Size (30ft radius) Absolute Merb - All herb size, and wood yours height. Moody Vine Stratum Plot Size (30ft radius) Absolute Merb - All herb size, and wood yours height. Moody Vine Stratum Plot Size (30ft radius) Absolute Merb - All herb size, and wood yours height. Moody Vine Stratum Plot Size (30ft radius) Absolute Merb - All herb size, and wood yours height. Moody Vine Stratum Plot Size (30ft radius) Absolute Merb - All herb size, and wood yours height. Moody Vine Stratum Plot Size (30ft radius) Absolute Merb - All herb size, and wood yours height. Moody Vine Stratum Plot Size (30ft radius) Absolute Merb - All herb size, and wood yours you	ydric soil and wetland hydro	ology must b
Definitions Definitions Tree - Woody Image: Stratum Plot Size (30ft radius) Absolute Moody Vine Stratum Plot Size (30ft radius) Absolute O Indicator Woody Vine Stratum Plot Size (30ft radius) Absolute Dominant Indicator Stratum Plot Size (30ft radius) Absolute Dominant Indicator Status Herb - All herb Status Height. Hydrop vegetat 0 Total Cover Plot Size (Include photo numbers here or on a separate sheet) Disturbed wet meadow wetland.	s disturbed or problematic	
Definitions Definitions Definitions Tree - Woody Definitions Cover Stratum Plot Size (30ft radius) Absolute Dominant Indicator Stratum Plot Size (30ft radius) Absolute Dominant Indicator Stratum O Tree - Woody Dominant Indicator Stratum Plot Size (30ft radius) Absolute Dominant Indicator Stratus Herb - All hert size, and wood Woody vines height. Disturbed Definitions Tree - Woody Disturbed wet meadow wetland.		
Image: Second	of Vegetation Strata:	
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General Cover General Cover Sapling/shrut Woody Vine Plot Size (30ft radius) Absolute Dominant Indicator Stratum Plot Size (30ft radius) Absolute Dominant Indicator Woody Vine Status Woody vines Herb - All hert Stratum Plot Size (30ft radius) Absolute Dominant Indicator Woody vine Species Status Woody vines Height. Multiple Hydrop Vegetat 0 = Total Cover Present marks: (Include photo numbers here or on a separate sheet) Disturbed wet meadow wetland. Sapling/shrut	DBH), regardless of height.	
G4 = Total Cover Greater than 3. Woody Vine Stratum Plot Size (30ft radius) Absolute % Cover Dominant Species Indicator Woody vines % Cover Species Status Woody vines height. Image: Status Indicator Woody vines Moody vines Image: Status Image: Status Image: Status Woody vines Image: Status Image: Status Image: Status Image: Status Woody vines Image: Status Imag	Woody plants loss than 3	
Image: Stratum Image	28 ft (1 m) tall.	III. DDITAIL
Woody Vine Stratum Plot Size (30ft radius) Absolute % Cover Dominant Species Indicator Status Woody vines height. Image: Stratum Image: Stratum Image: Stratum Image: Stratum Image: Stratum Woody vines height. Image: Stratum Image: Stratum Image: Stratum Image: Stratum Image: Stratum Woody vines height. Image: Stratum Im		
Woody Vine Stratum Plot Size (30ft radius) Absolute % Cover Dominant Species Indicator Status Size, and wood Woody vines height. Image: Stratum Image: Stratum Image: Stratum Image: Stratum Image: Stratum Woody vines height. Image: Stratum Image: Stratum Image: Stratum Image: Stratum Image: Stratum Woody vines height. Image: Stratum Image: Stratum <td>aceous (non-woody) plants</td> <td>, regardless</td>	aceous (non-woody) plants	, regardless
Stratum Plot Size (30ft radius) % Cover Species Status Woody vines Stratum	ly plants less than 3.28 ft tai	I.
Image: Second	- All woody vines greater the	an 3 28 ft in
Image:	- All woody villes greater the	11 3.20 11 11
Image: Second		
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0 = Total Cover vegetat 0 = Total Cover present omarks: (Include photo numbers here or on a separate sheet) Disturbed wet meadow wetland.	hytic	
<u>0</u> = Total Cover presen t emarks: (Include photo numbers here or on a separate sheet) Disturbed wet meadow wetland.	ion	
emarks: (Include photo numbers here or on a separate sheet) Disturbed wet meadow wetland.	? <u>Y</u>	
marks: (Include photo numbers here or on a separate sheet) Disturbed wet meadow wetland.		
Disturbed wet meadow wetland.		

SOIL							Si	ampling Point: 9
Drofile Doo	ariation: (Decari	ha ta th	a danth naadad	to doou	na a nati tika	indianta	r or confirm the cheen	a of indicators)
Depth Matrix Redox Features						or or commit the absent		
(Inches)	Color (moist)	%	Color (moist)	%	Type*	Loc**	Texture	Remarks
0-8	10YR 2/1	97	10YR 3/6	3	С	PL	silty clay loam	
8-15	10YR 2/1	98	10YR 3/6	2	С	PL/M	silty clay	
15 21	10CV 6/1	95		15	C	Ν4		
13-21	10010/1	00	10110 3/0	15	C	IVI	Silty Clay	
*Type: C=C	Concentration, D	=Deplet	ion, RM=Reduce	d Matri	x, CS=C	overed o	r Coated Sand Grains	
**Location:	PL=Pore Lining	, M=Mat	rix		,			
Hydric Soi	I Indicators:						Indicators for Pro	blematic Hydric Soils:
***Location: PL=Pore Lining, M=Matrix Hydric Soil Indicators: Indicators for Problematic Hydric Soils:								

Project/Site: Jefferson Interurban Trail Phase 3	City/County:	Ixonia/Jeffe	erson Sampling Date: June 9, 2022	
Applicant/Owner: KL Engineering, Inc.	_	State: WI	Sampling Point: 10	
Investigator(s): K. Sherfinski		Section, To	ownship, Range: S27, T8N, R16E	
Landform (hillslope, terrace, etc.): top of berm	Loc	cal relief (co	ncave, convex, none): convex	
Slope (%): 3-4 Lat.: Long.:		Datum		
Soil Map Unit Name Wauconda silt Ioam (WvB)			NWI Classification: none	
Are climatic/hydrologic conditions of the site typical for this	time of the year	? Yes	(If no, explain in remarks)	
Are vegetation, soil, or hydrology	significantly	/ disturbed?	Are "normal	
Are vegetation, soil, or hydrology	naturally pr	oblematic?	circumstances" present? Yes	
(If needed, explain any answers in remarks)				

SUMMARY OF FINDINGS

Hydrophytic vegetation present? Hydric soil present?	N N	Is the sampled area within a wetland? N
Indicators of wetland hydrology present?	<u>N</u>	If yes, optional wetland site ID:
Remarks: (Explain alternative procedures h	ere or in a se	eparate report.)

HYDROLOGY

		Secondary Indicators (minimum of two	
Deine en la disetere (minimum ef en e is new			
Primary indicators (minimum of one is requ	requirea)		
Surface Water (A1)	Water-Stained Leaves (B9)	Surface Soil Cracks (B6)	
High Water Table (A2)	Aquatic Fauna (B13)	Drainage Patterns (B10)	
Saturation (A3)	Marl Deposits (B15)	Moss Trim Lines (B16)	
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)	
Sediment Deposits (B2)	Oxidized Rhizospheres on Living	Crayfish Burrows (C8)	
Drift Deposits (B3)	Roots (C3)	Saturation Visible on Aerial Imagery	
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)	(C9)	
Iron Deposits (B5)	Recent Iron Reduction in Tilled	Stunted or Stressed Plants (D1)	
Inundation Visible on Aerial	Soils (C6)	Geomorphic Position (D2)	
Imagery (B7)	Thin Muck Surface (C7)	Shallow Aquitard (D3)	
Sparsely Vegetated Concave	Other (Explain in Remarks)	FAC-Neutral Test (D5)	
Surface (B8)		Microtopographic Relief (D4)	
—		—	
Field Observations:			
Surface water present? Yes	No X Depth (inches):	Indicators of	
Water table present? Yes	No X Depth (inches):	wetland	
Saturation present? Yes	No X Depth (inches):	hydrology	
(includes capillary fringe)		present? N	
		·	
Describe recorded data (stream gauge, mo	phitoring well, aerial photos, previous inspe	ctions), if available:	
	3 i , i i i i i i i i i i		
Remarks:			
Approximately 2 feet in elevation h	igher than wetland		

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GETATION - Use scientific names of plan	IS			Sampling Form. 10
Tree Stratum Plot Size (30ft radius)	Absolute	Dominant	Indicator	50/20 Thresholds 20% 50%
	% Cover	Species	Status	Tree Stratum 0 0
				Sapling/Shrub Stratum 0 0
				Herb Stratum 36 90
				Woody Vine Stratum 0 0
				Dominance Test Worksheet
				Number of Dominant
				Species that are OBL, $EACW$ or EAC'
				Total Number of Dominant
				Species Across all Strata: 2 (B)
	0 :	Total Cover		Percent of Dominant
				Species that are OBL,
Sapling/Shrub Plot Size(30ft radius) Stratum	Absolute % Cover	Dominant Species	Indicator Status	FACW, or FAC:(A
				Prevalence Index Worksheet
				Total % Cover of:
				OBL species $10 \times 1 = 10$
				FACW species $0 \times 2 = 0$
				FAC species $17 \times 3 = 51$
				FACU species $78 \times 4 = 312$
				$\begin{array}{c} \text{OPL Species} & 75 \\ \text{Column totals} & 180 \\ \text{Column totals} $
				$\frac{1}{16}$
	0 :	Total Cover		
		-		Hydrophytic Vegetation Indicators:
Herb Stratum Plot Size (5ft radius)	Absolute	Dominant	Indicator	Rapid test for hydrophytic vegetation
Promus inormis	% Cover	Species	Status	Dominance test is >50%
Diomus mermis	40			Prevalence index is ≤5.0 Morphological adaptations* (provide
Solidado altissima	15	 	FACU	supporting data in Remarks or on a
Cirsium arvense	10	<u></u> N	FACU	separate sheet)
Carex stricta	10	N	OBI	Problematic hydrophytic vegetation*
Vitis riparia	10	N	FAC	(explain)
Sonchus arvensis	10	N	FACU	*Indicators of bydric soil and wetland bydrology must
Rubus occidentalis	5	Ν	UPL	present, unless disturbed or problematic
Cornus racemosa	5	N	FAC	
Achillea millefolium	3	Ν	FACU	Definitions of Vegetation Strata:
Ambrosia trifida	2	N	FAC	
				breast height (DBH), regardless of height.
				Sapling/shrub - Woody plants less than 3 in. DBH a
	180 =	Total Cover		Herb - All herbaceous (non-woody) plants, regardles
Woody Vine Plot Size (30ft radius)	Absolute	Dominant	Indicator	size, and woody plants less than 3.28 ft tall.
Stratum Filt Cize (Soft Faulds)	% Cover	Species	Status	Woody vines - All woody vines greater than 3.28 ft i height.
				Hudronbutic
				nyurophytic vegetation
	0	Total Cover		present? N
	- t = = h + = + t ²			
marks: (Include photo numbers here or on a separa	ate sheet)			
marks: (Include photo numbers here or on a separa DId field.	ate sheet)			
marks: (Include photo numbers here or on a separa Old field.	ate sheet)			

SOIL								Sampling Point:	10
Profile Des	cription: (Descri	be to th	or or confirm the abser	nce of indicators.)					
(Inches)	Color (moist)	%	Color (moist)	юх геа %	Tvpe*	l oc**	Texture	Remar	ks
0-11	10YR 2/1	100		70		200	silty clay loam		
11-20	10YR 4/3	95	10YR 4/6	5	С	PL/M	silty clay		
								_	
*Type: C=0	Concentration, D:	=Depleti	ion. RM=Reduce	ed Matri	x. CS=C	overed c	r Coated Sand Grains	3	
**Location:	PL=Pore Lining	M=Mat	rix		.,	0.0.00			
Hydric Soi	I Indicators:						Indicators for Pr	oblematic Hydric S	oils:
Histosol (A1) Polyvalue Below Surface 2 cm Muck (A10) (LRR K, L, MLRA 149B Histic Epipedon (A2) (S8) (LRR R, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) Thin Dark Surface (S9) (LRR K, L) Sandy Mucky Mineral (S1) Depleted Dark Surface (F6) Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 149 Sandy Redox (S5) Depleted Dark Surface (F7) Red Parent Material (F21) Very Shallow Dark Surface (S7) (LRR R, MLRA Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA Other (Explain in Remarks) *Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic								XA 149B X, L, R) XR K, L, R) XR K, L, R) MLRA 149B) , 145, 149B)	
Depth (inch Remarks:	nes):				-		Hydric son pres		

Project/Site: Jefferson Interurban Trail Phase 3	City/County:	Ixonia/Jeffers	on Sampling Date: Jur	ne 9, 2022
Applicant/Owner: KL Engineering, Inc.	_	State: WI	Sampling Point	:: 11
Investigator(s): K. Sherfinski		Section, Tow	nship, Range: S26, T8N, I	R16E
Landform (hillslope, terrace, etc.): drainage swale	Loc	cal relief (conc	ave, convex, none): cor	ncave
Slope (%): 1-3 Lat.: Long.:		Datum:		
Soil Map Unit Name Keowns silt Ioam (Kb)		N	IWI Classification: none	
Are climatic/hydrologic conditions of the site typical for this	s time of the year	? <u>Yes</u> (I	f no, explain in remarks)	
Are vegetation, soil, or hydrology	significantl	y disturbed?	Are "normal	
Are vegetation, soil, or hydrology	naturally pr	oblematic?	circumstances" pre	sent? Yes
(If needed, explain any answers in remarks)				

SUMMARY OF FINDINGS

Hydrophytic vegetation present? Hydric soil present?	<u>Y</u> Y	Is the sampled area within a wetland?					
Indicators of wetland hydrology present?	Y	If yes, optional wetland site ID:	_				
Remarks: (Explain alternative procedures here or in a separate report.)							

HYDROLOGY

		Secondary Indicators (minimum of two		
Primary Indicators (minimum of one is requ	required)			
Surface Water (A1)	Water-Stained Leaves (B9)	Surface Soil Cracks (B6)		
High Water Table (A2)	Aquatic Fauna (B13)	X Drainage Patterns (B10)		
Saturation (A3)	Marl Deposits (B15)	Moss Trim Lines (B16)		
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)		
Sediment Deposits (B2)	Oxidized Rhizospheres on Living	Crayfish Burrows (C8)		
Drift Deposits (B3)	Roots (C3)	Saturation Visible on Aerial Imagery		
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)	(C9)		
Iron Deposits (B5)	Recent Iron Reduction in Tilled	Stunted or Stressed Plants (D1)		
Inundation Visible on Aerial	Soils (C6)	X Geomorphic Position (D2)		
Imagery (B7)	Thin Muck Surface (C7)	Shallow Aquitard (D3)		
Sparsely Vegetated Concave	Other (Explain in Remarks)	X FAC-Neutral Test (D5)		
Surface (B8)		Microtopographic Relief (D4)		
Field Observations:				
Surface water present? Yes	No X Depth (inches):	Indicators of		
Water table present? Yes	No X Depth (inches):	wetland		
Saturation present? Yes	No X Depth (inches):	hydrology		
(includes capillary fringe)		present? Y		
Describe recorded data (stream gauge, mo	nitoring well, aerial photos, previous inspec	ctions), if available:		
Remarks:				
Road runoff flows downhill to culve	rt under power line that drains into th	e pond to the north.		
Remarks: Road runoff flows downhill to culve	rt under power line that drains into th	e pond to the north.		

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GETATION - Use scien	tific names of pla	nis				iit.	1
Tree Stratum Plot Si	ze (30ft radius)	Absolute	Dominant	Indicator	50/20 Thresholds	20% 50	1%
		% Cover	Species	Status	Tree Stratum	0 0)
					Sapling/Shrub Stratum	0 0)
					Moody Vine Stratum	23 5	י ר
						0 0	,
					Dominance Test Workshe	et	
					Number of Dominant		
					EACW or EAC:	1	(Δ)
		_			Total Number of Dominant	<u> </u>	(74)
					Species Across all Strata:	1	(B)
		0	= Total Cover		Percent of Dominant		
					Species that are OBL,		
Sapling/Shrub Plot Si Stratum	ze (30ft radius)	Absolute % Cover	Dominant Species	Indicator Status	FACW, or FAC:	100.00%	(A/B
					Prevalence Index Worksh	eet	
					Total % Cover of:	0	
					CBL species 0 x 1	= 0	
					FACTOr species 100×2	= 200 = 15	
					FACU species 8 x 4	= 32	
		_			UPL species 0 x 5	= 0	
		_			Column totals 113 (A)	247	(B)
					Prevalence Index = B/A =	2.19	
			Total Covor				
					Hvdrophytic Vegetation Ir	dicators:	
Horb Stratum Dlot S	izo (5ft radius)	Absolute	Dominant	Indicator	Rapid test for hydrophy	tic vegetation	I
	ize (Sit laulus)	% Cover	Species	Status	X Dominance test is >50%	6	
Phalaris arundinacea		100	Y	FACW	X Prevalence index is ≤3.	0*	
I oxicodendron radicans			<u> </u>	FAC	Morphological adaptatio	ons* (provide	
Cirsium arvense			<u> </u>	FACU	supporting data in Rem	arks or on a	
Geranium maculatum				1700	Problematic hydrophytic	vegetation*	
		_			(explain)	, regenation	
					*Indicators of hydric soil and wetla	and hydrology m	iust be
					present, unless disturbed or probl	ematic	
			. <u> </u>		Definitions of Vegetation	Strata:	
					Tree Weedy plants 2 in (7.6 am		motor
					breast height (DBH), regardless of	f height.	neter
					greater than 3.28 ft (1 m) tall.	ss than 3 in. DBI	H and
		113	= Total Cover			.	
					Herb - All herbaceous (non-wood size, and woody plants less than a	y) plants, regard 3 28 ft tall	lless
Woody Vine Plot Si	ze (30ft radius)	Absolute	Dominant	Indicator			
Stratum		% Cover	Species	Status	Woody vines - All woody vines g	reater than 3.28	ft in
					neight.		
					Hydrophytic		
		_			vegetation		
		0	= Total Cover		present? Y	_	
norkov (Include at the second	oro horo or or a	aroto abaat					
narks: (Include photo numb	ers here or on a sepa	arate sheet)					
narks: (Include photo numb Disturbed wet meadow v	ers here or on a sepa vetland.	arate sheet)					

SOIL							Si	ampling Point: 11
Profile Des	cription: (Descri	be to th	e depth needed	to docu	ment the	e indicato	or or confirm the absend	ce of indicators.)
Depth (Inches)	Matrix Color (moist)	%	Red Color (moist)	ox Feat %	tures Type*	Loc**	Texture	Remarks
0-15	10YR 2/2	80	10YR 4/6	5	C	М	silty clay loam	
			10YR 5/3	15	С	М		
15-20	10YR 2/2	37	10YR 3/4	3	С	М	silty clay	
	10YR 2/1	60						
*Type: C=C	Concentration, D	Depleti	ion, RM=Reduce	d Matri	x, CS=C	overed c	r Coated Sand Grains	·
Hydric Soi	I Indicators:	ivi=iviat	.11X				Indicators for Pro	blematic Hydric Soils:
Histosol (A1) Polyvalue Below Surface 2 cm Muck (A10) (LRR K, L, MLRA 149B Histic Epipedon (A2) (S8) (LRR R, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) (LRR R, MLRA 149B Dark Surface (S7) (LRR K, L Stratified Layers (A5) Loamy Mucky Mineral (F1) Polyvalue Below Surface (S8) (LRR K, L) Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) Thin Dark Surface (S9) (LRR K, L, F) Sandy Mucky Mineral (S1) Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA 149, 145, 149) Sandy Redox (S5) Depleted Dark Surface (F7) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) 149B) *Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic								Redox (A16) (LRR K, L, R) eat or Peat (S3) (LRR K, L, R) S7) (LRR K, L w Surface (S8) (LRR K, L) ace (S9) (LRR K, L) e Masses (F12) (LRR K, L, R) dplain Soils (F19) (MLRA 149B) TA6) (MLRA 144A, 145, 149B) aterial (F21) Dark Surface (TF12) in Remarks) problematic
Restrictive Type: Depth (inch	Layer (if observe es):	ed):			-		Hydric soil prese	nt? <u>Y</u>
Remarks:								

Project/Site: Jefferson Interurban Trail Phase 3	City/County:	Ixonia/Jeffe	erson Sampling Date:	June 9, 202	22
Applicant/Owner: KL Engineering, Inc.	_	State: WI	Sampling P	oint: 1	2
Investigator(s): K. Sherfinski		Section, To	wnship, Range: S26, T8	3N, R16E	
Landform (hillslope, terrace, etc.): hillslope	Loc	cal relief (cor	ncave, convex, none):	convex	
Slope (%): 30 Lat.: Long.:		Datum:			
Soil Map Unit Name Keowns silt Ioam (Kb)			NWI Classification: nor	ne	
Are climatic/hydrologic conditions of the site typical for this	time of the year	? Yes	(If no, explain in remark	ks)	
Are vegetation, soil, or hydrology	significantly	/ disturbed?	Are "normal		
Are vegetation , soil , or hydrology	naturally pr	oblematic?	circumstances"	present?	Yes
(If needed, explain any answers in remarks)					

SUMMARY OF FINDINGS

Hydrophytic vegetation present? Hydric soil present?	<u>N</u>	Is the sampled area within a wetland?	<u>N</u>				
Indicators of wetland hydrology present?	N	If yes, optional wetland site ID:					
Remarks: (Explain alternative procedures here or in a separate report.)							

HYDROLOGY

		Secondary Indicators (minimum of two
Primary Indicators (minimum of one is requ	ired: check all that apply)	required)
Surface Water (A1)	Water-Stained Leaves (B9)	Surface Soil Cracks (B6)
High Water Table (A2)	Aquatic Fauna (B13)	Drainage Patterns (B10)
Saturation (A3)	Marl Deposits (B15)	Moss Trim Lines (B16)
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	Oxidized Rhizospheres on Living	Crayfish Burrows (C8)
Drift Deposits (B3)	Roots (C3)	Saturation Visible on Aerial Imagery
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)	(C9)
Iron Deposits (B5)	Recent Iron Reduction in Tilled	Stunted or Stressed Plants (D1)
Inundation Visible on Aerial	Soils (C6)	Geomorphic Position (D2)
Imagery (B7)	Thin Muck Surface (C7)	Shallow Aquitard (D3)
Sparsely Vegetated Concave	Other (Explain in Remarks)	FAC-Neutral Test (D5)
Surface (B8)		Microtopographic Relief (D4)
Field Observations:		
Surface water present? Yes	No X Depth (inches):	Indicators of
Water table present? Yes	No X Depth (inches):	wetland
Saturation present? Yes	No X Depth (inches):	hydrology
(includes capillary fringe)		present? N
Describe recorded data (stream gauge, mo	onitoring well, aerial photos, previous inspe	ctions), if available:
Remarks:		
Approximately 3 feet in elevation h	igher than wetland, located on the ro	ad embankment.

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VEGETATION - Use scientific names of plant	s			Sampling Point: 12
Tree Stratum Plot Size (30ft radius) 1 2 3	Absolute % Cover	Dominant Species	Indicator Status	50/20 Thresholds20%50%Tree Stratum0Sapling/Shrub Stratum0Herb Stratum20Woody Vine Stratum0
4 5 6 7 8 9 10 Sapling/Shrub Stratum Plot Size (30ft radius)		Total Cover Dominant Species	Indicator Status	Dominance Test WorksheetNumber of DominantSpecies that are OBL,FACW, or FAC:1Total Number of DominantSpecies Across all Strata:2Percent of DominantSpecies that are OBL,FACW, or FAC:50.00%50.00%(A/B)
1 2 3 4 5 6 7 8 9 10				Prevalence Index WorksheetTotal % Cover of:OBL species0X 1 =0FACW species20X 2 =40FAC species20X 3 =60FACU species28X 4 =112UPL species30X 5 =150Column totals98Prevalence Index = B/A =3.69
Herb StratumPlot Size (5ft radius)1Artemisia vulgaris2Phalaris arundinacea3Equisetum arvense4Sonchus arvensis5Toxicodendron radicans6Solidago altissima7Galium aparine8Arctium minus9Monarda fistulosa10	0 Absolute % Cover 30 20 10 10 10 3 3 2 2	= Total Cover Dominant Species Y Y N N N N N N N N N	Indicator Status UPL FACW FAC FACU FACU FACU FACU FACU FACU	Hydrophytic Vegetation Indicators: Rapid test for hydrophytic vegetation Dominance test is >50% Prevalence index is ≤3.0* Morphological adaptations* (provide supporting data in Remarks or on a separate sheet) Problematic hydrophytic vegetation* (explain) *Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic Definitions of Vegetation Strata:
11 12 13 14 15				 Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
Woody Vine Plot Size(30ft radius) Stratum	98 Absolute % Cover	 Total Cover Dominant Species 	Indicator Status	 Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height.
3 4 5	0	= Total Cover		Hydrophytic vegetation present? N
Remarks: (Include photo numbers here or on a separa Old field.	ite sheet)			

SOIL								Sampling Point: 12		
Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)										
Depth (Inches)	Matrix Color (moist)	%	Red Color (moist)	ox Feat	tures Type*	1 00**	Texture	Remarks		
0-9	10YR 3/3	100		70	Турс		silty clay loam			
				ļ						
*Type: C=C	Concentration, D	=Depleti M=Mat	ion, RM=Reduce	d Matri	x, CS=C	overed c	r Coated Sand Grair	ns		
Hydric Soi	I Indicators:						Indicators for F	Problematic Hydric Soils:		
Histosol (A1) Polyvalue Below Surface 2 cm Muck (A10) (LRR K, L, MLRA 149 Histosol (A1) (S8) (LRR R, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) 5 cm Mucky Peat or Peat (S3) (LRR K, L) Hydrogen Sulfide (A4) (LRR R, MLRA 149B) Dark Surface (S7) (LRR K, L) Depleted Below Dark Surface (A11) (LRR K, L) Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Loamy Mucky Mineral (F1) Thin Dark Surface (S9) (LRR K, L) Sandy Mucky Mineral (S1) Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA Sandy Redox (S5) Depleted Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 7) Stripped Matrix (S6) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Other (Explain in Remarks) *Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic							e Redox (A16) (LRR K, L, R) ⁷ Peat or Peat (S3) (LRR K, L, R) ¹ e (S7) (LRR K, L elow Surface (S8) (LRR K, L) ¹ urface (S9) (LRR K, L) nese Masses (F12) (LRR K, L, R) loodplain Soils (F19) (MLRA 149E ic (TA6) (MLRA 144A, 145, 149B Material (F21) w Dark Surface (TF12) ain in Remarks) or problematic			
Restrictive Layer (if observed): Type:gravel fill Depth (inches):9					-	Hydric soil present? <u>N</u>				
Remarks: Refusal	at 9 inches di	ue to s	olid gravel fill.							

Project/Site:	Jefferson Interurba	n Trail Phase 3	City/County:	Ixonia/Jeff	erson Sampling Date	e: June 9, 20)22
Applicant/Owne	er: KL Engineering	g, Inc.	_	State: W	Sampling I	Point:	13
Investigator(s):	K. Sherfinski			Section, To	ownship, Range: S26, T	8N, R16E	
Landform (hillsl	ope, terrace, etc.):	slight swale on hillslop	be Lo	cal relief (co	ncave, convex, none):	concave	
Slope (%): 1-3	Lat.:	Long.:		Datum	:		
Soil Map Unit N	ame Keowns silt loa	am (Kb)			NWI Classification: no	ne	
Are climatic/hyd	drologic conditions of	of the site typical for this	s time of the year	? Yes	(If no, explain in remar	ks)	
Are vegetation	, soil	, or hydrology	significantl	y disturbed?	Are "normal		
Are vegetation	, soil	, or hydrology	naturally p	roblematic?	circumstances	" present?	Yes
(If needed, expl	ain any answers in	remarks)					

SUMMARY OF FINDINGS

Hydrophytic vegetation present? Hydric soil present?	Y	Is the sampled area within a wetland?	<u>N</u>
Indicators of wetland hydrology present?	Y	If yes, optional wetland site ID:	
Remarks: (Explain alternative procedures	here or in a se	eparate report.)	

HYDROLOGY

		Secondary Indicators (minimum of two
Primary Indicators (minimum of one is requ	ired: check all that apply)	required)
Surface Water (A1)	Surface Soil Cracks (B6)	
High Water Table (A2)		
High Water Table (A2)	Aqualic Fauna (BTS)	Drainage Patterns (B10)
Saturation (A3)	Mari Deposits (B15)	Moss Trim Lines (B16)
water Marks (B1)	Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	Oxidized Rhizospheres on Living	Crayfish Burrows (C8)
Drift Deposits (B3)	Roots (C3)	Saturation Visible on Aerial Imagery
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)	(C9)
Iron Deposits (B5)	Recent Iron Reduction in Tilled	Stunted or Stressed Plants (D1)
Inundation Visible on Aerial	Soils (C6)	X Geomorphic Position (D2)
Imagery (B7)	Thin Muck Surface (C7)	Shallow Aquitard (D3)
Sparsely Vegetated Concave	Other (Explain in Remarks)	X FAC-Neutral Test (D5)
Surface (B8)		Microtopographic Relief (D4)
Field Observations:		
Surface water present? Yes	No X Depth (inches):	Indicators of
Water table present? Yes	No X Depth (inches):	wetland
Saturation present? Yes	No X Depth (inches):	hydrology
(includes capillary fringe)	· 、 /	present? Y
		· ·
Describe recorded data (stream gauge, mo	nitoring well, aerial photos, previous inspe	ctions), if available:
Remarks:		
i tomano.		

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10			Sampling Point: 13
			50/20 Thresholds
Absolute	Dominant	Indicator	20% 50%
% Cover	Species	Status	Tree Stratum 0 0
			Sapling/Shrub Stratum 0 0
			Herb Stratum 16 40
			Woody Vine Stratum 0 0
			Dominanaa Tast Warkshoot
			Number of Deminerat
			Number of Dominant
			Species that are OBL,
			FACW, or FAC: 4 (A)
			Total Number of Dominant
			Species Across all Strata: 4 (B)
0 =	= Total Cover		Percent of Dominant
			Species that are OBI
Absolute	Dominant	Indicator	EACW or EAC: 100.00% (A/E
% Covor	Species	Statue	
% Cover	Species	Status	
			Prevalence Index Worksheet
			Total % Cover of:
			OBL species $0 \times 1 = 0$
			EACW species $22 \times 2 = 44$
			$\frac{1}{22} \times 2 = \frac{44}{150}$
			FAC species $50 \times 3 = 150$
			FACU species $8 \times 4 = 32$
			UPL species $0 \times 5 = 0$
			Column totals <u>80</u> (A) <u>226</u> (B)
			Prevalence Index = $B/A = 2.83$
0	Total Cover		
			Hydrophytic Vegetation Indicators:
Abcoluto	Dominant	Indicator	Papid test for hydrophytic vogetation
	Species	Statua	X Deminence test in 50%
	Species	Status	
20	<u> </u>	FAC	$\frac{X}{X}$ Prevalence index is $\leq 3.0^{\circ}$
15	Y	FAC	Morphological adaptations* (provide
15	Y	FAC	supporting data in Remarks or on a
15	Y	FACW	separate sheet)
5	N	FACW	Problematic hydrophytic vegetation*
5	N	FACU	(explain)
2	N	FACU	*Indicators of hydric coil and watland hydrology must h
	N	FACW	present unless disturbed or problematic
1		EACU	present, unless disturbed of problematic
			Definitions of Venetation Otrotoc
	IN	FACW	Definitions of vegetation Strata:
			Tree - Woody plants 3 in. (7.6 cm) or more in diameter
			breast height (DBH), regardless of height.
			Sapling/shrub - Woody plants less than 3 in. DBH and
			greater than 3.28 ft (1 m) tall.
			5 ()
80 -	- Total Cover		
80 =	Total Cover		Herb - All herbaceous (non-woody) plants, regardless
<u>80</u> =	Total Cover	la dia stan	Herb - All herbaceous (non-woody) plants, regardless size, and woody plants less than 3.28 ft tall.
80 =	Total Cover	Indicator	Herb - All herbaceous (non-woody) plants, regardless size, and woody plants less than 3.28 ft tall.
80 = Absolute % Cover	 Total Cover Dominant Species 	Indicator Status	Herb - All herbaceous (non-woody) plants, regardless size, and woody plants less than 3.28 ft tall.Woody vines - All woody vines greater than 3.28 ft in
80 = Absolute % Cover	 Total Cover Dominant Species 	Indicator Status	 Herb - All herbaceous (non-woody) plants, regardless size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height.
80 = Absolute % Cover	 Total Cover Dominant Species 	Indicator Status	 Herb - All herbaceous (non-woody) plants, regardless size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height.
80 = Absolute % Cover	 Total Cover Dominant Species 	Indicator Status	 Herb - All herbaceous (non-woody) plants, regardless size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height.
80 = Absolute % Cover	Total Cover Dominant Species	Indicator Status	Herb - All herbaceous (non-woody) plants, regardless size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height.
80 = Absolute % Cover	Total Cover Dominant Species	Indicator Status	Herb - All herbaceous (non-woody) plants, regardless size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic
80 = Absolute % Cover	Total Cover Dominant Species	Indicator Status	Herb - All herbaceous (non-woody) plants, regardless size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic vegetation
80 = Absolute % Cover	Total Cover Dominant Species Total Cover	Indicator Status	Herb - All herbaceous (non-woody) plants, regardless size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic vegetation present? Y
80 = Absolute % Cover	Total Cover Dominant Species Total Cover	Indicator Status	Herb - All herbaceous (non-woody) plants, regardless size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic vegetation present? Y
80 = Absolute % Cover	Total Cover Dominant Species Total Cover	Indicator Status	Herb - All herbaceous (non-woody) plants, regardless size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic vegetation present? Y
80 = Absolute % Cover	Total Cover Dominant Species Total Cover Total Cover	Indicator Status	Herb - All herbaceous (non-woody) plants, regardless size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic vegetation present? Y
	Absolute % Cover	Absolute % CoverDominant SpeciesImage: Description of the systemImage: Des	Absolute % CoverDominant SpeciesIndicator Status

SOIL Sampling Point: 13							Sampling Point: 13	
cription: (Descri	ibe to th	le depth needed to document the indicat			indicato	or or confirm the absence of indicators.)		
Color (moist)	%	Color (moist)	%	Tvpe*	Loc**	Texture	Remarks	
10YR 2/2	100		, ,	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		silt loam		
10YR 2/2	20							
10YR 5/4	77	10YR 4/4	3	С	М	sandy clay		
10YR 3/2	88	10YR 4/4	2	С	М	silty clay		
10YR 2/2	10							
				-				
5Y 4/3	88	10YR 5/6	2	С	M	silty clay		
10YR 2/2	10							
							-	
Concentration, D	 =Depleti	on, RM=Reduce	d Matri	x. CS=C	overed o	r Coated Sand Grains		
PL=Pore Lining	, M=Mat	rix	a man	.,	010100.0			
il Indicators:						Indicators for Pro	oblematic Hydric Soils:	
Histosol (A1) Polyvalue Below Surface Histosol (A1) Polyvalue Below Surface Histic Epipedon (A2) (S8) (LRR R, MLRA 149B) Black Histic (A3) Thin Dark Surface (S9) Hydrogen Sulfide (A4) (LRR R, MLRA 149B) Stratified Layers (A5) Loamy Mucky Mineral (F1) Depleted Below Dark Surface (A12) Loamy Gleyed Matrix (F2) Sandy Mucky Mineral (S1) Depleted Dark Surface (F6) Sandy Redox (S5) Depleted Dark Surface (F7) Stripped Matrix (S6) Redox Dark Surface (F7) Dark Surface (S7) (LRR R, MLRA 1449B) Redox Depressions (F8) *Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic								
				-				
	Concentration, D PL=Pore Lining Indicators: Stosol (A1) Stic Epipedon (A2 ack Histic (A3) drogen Sulfide (/ artified Layers (A pleted Below Da ick Dark Surface ndy Mucky Mine ndy Gleyed Matrin ndy Redox (S5) ipped Matrix (S6 rk Surface (S7) (9B) of hydrophytic v Layer (if observer nes):	cription: (Describe to th Matrix Color (moist) % 10YR 2/2 100 10YR 2/2 20 10YR 5/4 77 10YR 3/2 88 10YR 2/2 10 5Y 4/3 88 10YR 2/2 10 5Y 4/3 88 10YR 2/2 10 Concentration, D=Depleti PL=Pore Lining, M=Mat I Indicators: stosol (A1) stic Epipedon (A2) ack Histic (A3) drogen Sulfide (A4) atified Layers (A5) pleted Below Dark Surfa ick Dark Surface (A12) ndy Mucky Mineral (S1) ndy Gleyed Matrix (S4) ndy Redox (S5) ipped Matrix (S6) rk Surface (S7) (LRR R, 9B) of hydrophytic vegetatio Layer (if observed): nes):	cription: (Describe to the depth needed in Matrix Red Color (moist) % Color (moist) 10YR 2/2 100 10YR 2/2 20 10YR 5/4 77 10YR 4/4 10YR 3/2 88 10YR 4/4 10YR 2/2 10 5Y 4/3 88 10YR 5/6 10YR 2/2 10 Concentration, D=Depletion, RM=Reduce PL=Pore Lining, M=Matrix il Indicators: stosol (A1) Poly stic Epipedon (A2) (S8 ack Histic (A3) Thir drogen Sulfide (A4) (LR atified Layers (A5) Loa pleted Below Dark Surface (A11) (LR ick Dark Surface (A12) Loa ndy Mucky Mineral (S1) Dep ndy Gleyed Matrix (S4) Rec ndy Redox (S5) Dep ipped Matrix (S6) Rec rk Surface (S7) (LRR R, MLRA 9B) of hydrophytic vegetation and wetland hy Layer (if observed):	cription: (Describe to the depth needed to docu Matrix Redox Feat Color (moist) % Color (moist) % 10YR 2/2 100 10YR 2/2 20 10YR 3/2 88 10YR 4/4 2 10YR 3/2 88 10YR 4/4 2 10YR 2/2 10 5Y 4/3 88 10YR 5/6 2 10YR 2/2 10 Concentration, D=Depletion, RM=Reduced Matri: PL=Pore Lining, M=Matrix il Indicators: stosol (A1) Polyvalue B stic Epipedon (A2) (S8) (LRR K, M) atified Layers (A5) Loamy Muc pleted Below Dark Surface (A11) (LRR K, L) ick Dark Surface (A12) Loamy Gle ndy Mucky Mineral (S1) Depleted D mdy Gleyed Matrix (S6) Redox Dar ndy Redox (S5) Depleted D pr Surface (S7) (LRR R, MLRA 9B) of hydrophytic vegetation and wetland hydrology Layer (if observed): nes):	cription: (Describe to the depth needed to document the Redox Features Color (moist) % Color (moist) % Type* 10YR 2/2 100 7 7 10YR 4/4 3 C 10YR 2/2 20 7 7 10YR 4/4 3 C 10YR 3/2 88 10YR 4/4 2 C 10YR 2/2 10 7 7 10YR 4/4 2 C 10YR 2/2 10 10YR 2/2 10 10YR 4/4 2 C 10YR 2/2 10 10YR 2/2 10 10YR 4/4 2 C 10YR 2/2 10 10YR 2/2 10 10YR 4/4 2 C 10YR 2/2 10 10YR 4/4 2 C 10YR 2/2 10 10YR 2/2 10 10YR 2/2 10 10YR 2/2 10 10YR 2/2 10 10YR 2/2 10 10YR 2/2 10 10	cription: (Describe to the depth needed to document the indicator Matrix Redox Features Color (moist) % Type* Loc** 10YR 2/2 100	cription: (Describe to the depth needed to document the indicator or confirm the absert Matrix Redox Features Texture TolvR 2/2 100 Texture Status 10YR 2/2 20 Texture Status 10YR 2/2 20 Texture Status 10YR 5/4 77 10YR 4/4 3 C M sandy clay 10YR 3/2 88 10YR 4/4 2 C M silty clay 10YR 2/2 10 Texture Status 5Y 4/3 88 10YR 5/6 2 C M silty clay 10YR 2/2 10 Texture Status 5Y 4/3 88 10YR 5/6 2 C M silty clay 10YR 2/2 10 Texture Status 5Y 4/3 88 10YR 5/6 2 C M silty clay 10YR 2/2 10 Texture Status 5Y 4/3 88 10YR 5/6 2 C M silty clay 10YR 2/2 10 Texture Status 5Y 4/3 88 10YR 5/6 2 C M silty clay 10YR 2/2 10 Texture Status 5Y 4/3 88 10YR 5/6 2 C M silty clay 10YR 2/2 10 Texture Status 5Y 4/3 88 10YR 5/6 2 C M silty clay 10YR 2/2 10 Texture Status 5Y 4/3 88 10YR 5/6 2 C M silty clay 10YR 2/2 10 Texture Status 5Y 4/3 88 10YR 5/6 2 C M silty clay 10YR 2/2 10 Texture Status 5Y 4/3 88 10YR 5/6 2 C M silty clay 10YR 2/2 10 Texture Status 5Y 4/3 88 10YR 5/6 2 C M silty clay 10YR 2/2 10 Texture Status 10YR 2/2 10 Texture Status 5Y 4/3 88 10YR 5/6 2 C Matrix (CS) Coast Praine 5tosol (A1) Coast Status Coast Praine 11 Indicators: Indicators for Pri- stosol (A1) Coast Status 11 Depleted Matrix (F2) Texture Status 12 Coast Praine 12 Com Muck (A1) CLRR R, MLRA 149B Texture Status 12 Coast Strates (A1) Depleted Matrix (F3) Polyvalue Below 12 Coast Strates (A1) Depleted Matrix (F3) Polyvalue Below 12 Coast Strates (S7) CLRR R, MLRA 199 13 Polytates (S6) Redox Dark Surface (F6) Mesic Spodic 14 My Mecky Mineral (S1) Depleted Matrix (F3) Predmont Flor 14 My Casel Strates (S7) (LRR R, MLRA 199 15 Polytates (S7) (LRR R, MLRA 199 16 Status (S6) Redox Dark Surface (F7) Red Parent M 15 Status (S6) Redox Dark Surface (F7) Red Parent M 15 Status (S6) Redox Dark Surface (F7) Red Parent M 15 Status (S6) Redox Dark Surface (F7) Red Parent M 15 Status (S6) Redox Dark Surface (F7) Red Parent M 15 Status (S6) Redox Dark Surface (F7) Red Parent M 15 Status (S6) Redox Dark Surface (F7) Red Parent M 15 St	

Project/Site: Jefferson Interurban Trail Phase 3	City/County:	Ixonia/Jeffe	erson Sampling Date:	June 9, 202	2
Applicant/Owner: KL Engineering, Inc.	_	State: WI	Sampling P	oint: 1	4
Investigator(s): K. Sherfinski		Section, To	wnship, Range: S26, T8	3N, R16E	
Landform (hillslope, terrace, etc.): toe of slope	Loc	al relief (cor	ncave, convex, none):	concave	
Slope (%): 0-2 Lat.: Long.:		Datum:			
Soil Map Unit Name Keowns silt Ioam (Kb)			NWI Classification: non	ne	
Are climatic/hydrologic conditions of the site typical for this	time of the year	? Yes	(If no, explain in remark	(S)	
Are vegetation, soil, or hydrology	significantly	/ disturbed?	Are "normal		
Are vegetation , soil , or hydrology	naturally pr	oblematic?	circumstances"	present?	Yes
(If needed, explain any answers in remarks)					

SUMMARY OF FINDINGS

Hydrophytic vegetation present? Hydric soil present?	<u>Y</u> Y	Is the sampled area within a wetland?
Indicators of wetland hydrology present?	Y	If yes, optional wetland site ID:
Remarks: (Explain alternative procedures I	nere or in a s	eparate report.)

		Secondary Indicators (minimum of two		
Primary Indicators (minimum of one is requ	uired; check all that apply)	required)		
Surface Water (A1)	Surface Water (A1) Water-Stained Leaves (B9)			
X High Water Table (A2)	Aquatic Fauna (B13)	X Drainage Patterns (B10)		
X Saturation (A3)	Marl Deposits (B15)	Moss Trim Lines (B16)		
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)		
Sediment Deposits (B2)	Oxidized Rhizospheres on Living	Crayfish Burrows (C8)		
Drift Deposits (B3)	Roots (C3)	Saturation Visible on Aerial Imagery		
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)	(C9)		
Iron Deposits (B5)	Recent Iron Reduction in Tilled	Stunted or Stressed Plants (D1)		
Inundation Visible on Aerial	Soils (C6)	X Geomorphic Position (D2)		
Imagery (B7)	Thin Muck Surface (C7)	Shallow Aquitard (D3)		
Sparsely Vegetated Concave	Other (Explain in Remarks)	X FAC-Neutral Test (D5)		
Surface (B8)		Microtopographic Relief (D4)		
Field Observations:				
Surface water present? Yes	No X Depth (inches):	Indicators of		
Water table present? Yes X	No Depth (inches): 2	wetland		
Saturation present? Yes X	No Depth (inches): At surface	e hydrology		
(includes capillary fringe)		present? Y		
Describe recorded data (stream gauge, mo	onitoring well, aerial photos, previous inspec	ctions), if available:		
Remarks:				
Wetland along creek.				
-				

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	e scientific	names of pla	nts			Sampling Point:	14
			Absolute	Dominant	Indicator	50/20 Thresholds	20% 50%
ree Stratum	Plot Size (30ft radius)	% Cover	Species	Status	Tree Stratum	0 0
				·		Sapling/Shrub Stratum	0 0
						Herb Stratum	21 53
						Woody Vine Stratum	0 0
						Dominance Test Worksheet	
						Number of Dominant	
						Species that are OBL,	1 ()
			- <u> </u>			Tatal Number of Dominant	(A
						Species Across all Strata:	1 /F
				- Total Cover			(L
						Percent of Dominant	
onling/Chruh			Abaaluta	Dominant	Indiaator	Species that are OBL,	00 000/ //
Stratum	Plot Size (30ft radius)		Species	Status	FACW, OF FAC:	<u>00.00%</u> (P
Stratum			% Cover	Species	Status		
						Prevalence Index Worksheet	
						Total % Cover of:	
						OBL species 84 x 1 =	84
						FACW species <u>20</u> x 2 =	40
						FAC species $0 \times 3 =$	0
						FACU species 2 x 4 =	8
						UPL species 0 x 5 =	0
						Column totals 106 (A)	<u>132</u> (E
						Prevalence Index = B/A =	1.25
			0 =	= Total Cover			
						Hydrophytic Vegetation Indic	ators:
Herb Stratum	Plot Size (5ft radius)	Absolute	Dominant	Indicator	Rapid test for hydrophytic v	egetation/
)	% Cover	Species	Status	X Dominance test is >50%	
Carex stricta			80	Y	OBL	X Prevalence index is ≤3.0*	
Phalaris arundina	acea		20	N	FACW	Morphological adaptations*	' (provide
Iris virginica			2	N	OBL	supporting data in Remarks	s or on a
Persicaria amphi	bia		2	N	OBL	separate sheet)	
Vicia americana			2	N	FACU	Problematic hydrophytic ve	getation*
						(explain)	
						*Indicators of hydric soil and wetland h	nydrology mus
						present, unless disturbed or problema	itic
						Definitions of Vegetation Stra	ata:
						Tree - Woody plants 3 in. (7.6 cm) or	more in diame
						breast height (DBH), regardless of he	ight.
						greater than 3 28 ft (1 m) tall	an 3 in. DBH a
			106	- Total Cover		greater than 3.20 ft (1 ft) tail.	
			100			Herb - All herbaceous (non-woody) pl	ants, regardle
Woody Vine			Absolute	Dominant	Indicator	size, and woody plants less than 3.28	ft tall.
Stratum	Plot Size (30ft radius)	% Cover	Species	Status		
Ollalum				Opecies	Olalus	Woody vines - All woody vines greate	er than 3.28 ft
						neight.	
			- <u></u>				
			- <u> </u>			Hydrophytic	
						vegetation	
			0 :	= Total Cover		present? Y	
						-	
narks: (Include phot	o numbers h	ere or on a sepa	arate sheet)				
narks: (Include phot Visturbed wet mea	o numbers h adow wetla	ere or on a sepa and.	arate sheet)				
narks: (Include phot Visturbed wet mea	o numbers h adow wetla	ere or on a sepa and.	arate sheet)				

SOIL							S	ampling Point: 14
Profile Des	cription: (Descr	ibe to th	e depth needed	to docu	ment the	indicato	or or confirm the absend	ce of indicators.)
Depth (Inches)	Matrix Color (moist)	%	Rec Color (moist)	Redox Features		Loc**	Texture	Remarks
0-7	10YR 2/1	100		,,,	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		mucky peat	
7-15	2.5Y 4/2	90	10YR 5/8	10	С	М	sandy clay	
15-22	5Y 3/1	90	10YR 3/6	10	С	М	silty clay	
*Type: C=C	Concentration, D	=Deplet	ion, RM=Reduce	ed Matri	x, CS=C	overed o	r Coated Sand Grains	
**Location: Hydric Soi	PL=Pore Lining	, M=Mat	rix				Indicators for Pro	blematic Hydric Soils:
Bla Hyd Stra X Dej Thi Sau Sau Sau Sau Sau Stri Dau 149	Histic Epipedon (A2) (S8) (LRR R, MLRA 149B) Black Histic (A3) Thin Dark Surface (S9) Hydrogen Sulfide (A4) (LRR R, MLRA 149B) Stratified Layers (A5) Loamy Mucky Mineral (F1) X Depleted Below Dark Surface (A11) (LRR K, L) Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) Sandy Mucky Mineral (S1) X Depleted Matrix (F3) Sandy Redox (S5) Depleted Dark Surface (F6) Dark Surface (S7) (LRR R, MLRA 149B) Stripped Matrix (S6) Depleted Dark Surface (F7) Matrix (S6) Redox Depressions (F8) Dark Surface (S7) (LRR R, MLRA 149B) *Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic							eat or Peat (S3) (LRR K, L, R) S7) (LRR K, L w Surface (S8) (LRR K, L) ace (S9) (LRR K, L) & Masses (F12) (LRR K, L, R) dplain Soils (F19) (MLRA 149B) (TA6) (MLRA 144A, 145, 149B) aterial (F21) Dark Surface (TF12) in Remarks) problematic
Restrictive Type: Depth (inch	Restrictive Layer (if observed): Type: Hydric soil present? Y Depth (inches):							ent? <u>Y</u>
Remarks:								

Project/Site: Jefferson Interurban Trail Phase 3	City/County:	Ixonia/Jeffe	erson Sampling Date:	June 9, 2022	2
Applicant/Owner: KL Engineering, Inc.	_	State: WI	Sampling P	oint: 15	5
Investigator(s): K. Sherfinski		Section, To	wnship, Range: S26, T8	3N, R16E	
Landform (hillslope, terrace, etc.): hillslope	Loc	al relief (con	ncave, convex, none):	convex	
Slope (%): 30 Lat.: Long.:		Datum:			
Soil Map Unit Name Keowns silt Ioam (Kb)			NWI Classification: non	e	
Are climatic/hydrologic conditions of the site typical for this	time of the year	? Yes	(If no, explain in remark	s)	
Are vegetation, soil, or hydrology	significantly	/ disturbed?	Are "normal		
Are vegetation , soil , or hydrology	naturally pr	oblematic?	circumstances"	present?	Yes
(If needed, explain any answers in remarks)					

SUMMARY OF FINDINGS

Hydrophytic vegetation present? Hydric soil present?	<u>N</u>	Is the sampled area within a wetland?	<u>N</u>			
Indicators of wetland hydrology present?	N	If yes, optional wetland site ID:				
Remarks: (Explain alternative procedures here or in a separate report.)						

HYDROLOGY

		Secondary Indicators (minimum of two	
Primary Indicators (minimum of one is requ	required)		
Surface Water (A1)	Surface Soil Cracks (B6)		
High Water Table (A2)	Aquatic Fauna (B13)	Drainage Patterns (B10)	
Saturation (A3)	Marl Deposits (B15)	Moss Trim Lines (B16)	
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)	
Sediment Deposits (B2)	Oxidized Rhizospheres on Living	Crayfish Burrows (C8)	
Drift Deposits (B3)	Roots (C3)	Saturation Visible on Aerial Imagery	
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)	(C9)	
Iron Deposits (B5)	Recent Iron Reduction in Tilled	Stunted or Stressed Plants (D1)	
Inundation Visible on Aerial	Soils (C6)	Geomorphic Position (D2)	
Imagery (B7)	Thin Muck Surface (C7)	Shallow Aquitard (D3)	
Sparsely Vegetated Concave	Other (Explain in Remarks)	FAC-Neutral Test (D5)	
Surface (B8)		Microtopographic Relief (D4)	
Field Observations:			
Surface water present? Yes	No X Depth (inches):	Indicators of	
Water table present? Yes	No X Depth (inches):	wetland	
Saturation present? Yes	No X Depth (inches):	hydrology	
(includes capillary fringe)		present? N	
Describe recorded data (stream gauge, mo	nitoring well, aerial photos, previous inspe	ctions), if available:	
Remarks:			
Approximately 4 feet in elevation h	igher than wetland, located on the ro	ad embankment.	

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EGETATION - Use scientific names of plan	ts			Sampling Point: 15
				50/20 Thresholds
Tree Stratum Plot Size (30ft radius)	Absolute	Dominant	Indicator	20% 50%
	% Cover	Species	Status	Tree Stratum 0 0
1				Sapling/Shrub Stratum 0 0
2				Herb Stratum 26 64
3				Woody Vine Stratum 0 0
4				Deminence Test Westerheit
b				Dominance Test Worksheet
0				Number of Dominant
				Species that are OBL, $f_{A} = f_{A} $
3				FACVV, OF FAC: I (A)
				Species Across all Strate: 2 (P)
·		- Total Covor		Species Across an Strata. <u>5</u> (B)
				Percent of Dominant
		-		Species that are OBL,
Sapling/Shrub Plot Size (30ft radius)	Absolute	Dominant	Indicator	FACW, or FAC: <u>33.33%</u> (A/B)
Stratum	% Cover	Species	Status	
				Prevalence Index Worksheet
				Total % Cover of:
				OBL species 0 x 1 = 0
				FACW species $0 \times 2 = 0$
				FAC species $40 \times 3 = 120$
				FACU species $40 \times 4 = 160$
				UPL species $48 \times 5 = 240$
				Column totals 128 (A) 520 (B)
				Prevalence Index = $B/A = \frac{4.06}{4.06}$
	0	= Total Cover		
				Hydrophytic Vegetation Indicators:
	Absolute	Dominant	Indicator	Rapid test for hydrophytic vegetation
Herb Stratum Plot Size (5ft radius)	% Cover	Species	Status	Dominance test is >50%
Bromus inermis	40	Y	LIPI	$\frac{1}{2} \frac{1}{2} \frac{1}$
Thalictrum dioicum	30		FACU	Morphological adaptations* (provide
Fauisetum arvense	30	<u> </u>	FAC	supporting data in Remarks or on a
Equicetari di venee	5	<u> </u>	FAC	separate sheet)
Alliaria petiolata	5	<u> </u>	FACU	Problematic hydrophytic vegetation*
Verbascum thansus	5	<u> </u>		(explain)
Barbarea vulgaris	5	<u> </u>	FAC	*Indiastore of hydric coil and watered hydrology must be
Galium aparine	3	<u> </u>	FACU	indicators of hydric soil and wetland hydrology must be
Asclenias svriaca	3	<u> </u>		
Tarayacum officinale	2	<u> </u>	FACIL	Definitions of Vegetation Strata:
			17.00	Bernitions of Vegetation etrata.
				Tree - Woody plants 3 in. (7.6 cm) or more in diameter
				breast height (DBH), regardless of height.
				Conting/objuth Weady plants less than 2 in DDU and
				greater than 3 28 ft (1 m) tall
	128	- Total Cover		greater than 0.20 ft (1 ft) tail.
	120			Herb - All herbaceous (non-woody) plants, regardless of
Woody Vino	Absoluto	Dominant	Indicator	size, and woody plants less than 3.28 ft tall.
Stratum Plot Size (30ft radius)		Species	Status	
Stratum		Species	Status	Woody vines - All woody vines greater than 3.28 ft in
				neight.
				Hydrophytic
				vegetation
	0	= Total Cover	_	present? N
marks: (Include photo numbers here or on a separa	ate sheet)			
Did field.	,			

SOIL								Sampling Point:	15
Drafile Das				4		:	Com the she	······································	
Depth	Depth Matrix Redox Features					-	ence of indicators.)		
(Inches)	Color (moist)	%	Color (moist)	%	Type*	Loc**	Texture	Remarks	3
0-10	10YR 3/3	100					silty clay loam	gravelly	
*Type: C=C	Concentration, D	-Depleti	ion, RM=Reduce	d Matri	x, CS=C	overed o	r Coated Sand Grain	ns	
**Location:	PL=Pore Lining,	M=Mat	rix						
Hydric Soi	I Indicators:						Indicators for I	Problematic Hydric Soi	ils:
His His Bla Hyu Str. De Thi Sau Sau Sau Str Da *Indicators	Histosol (A1) Polyvalue Below Surface Histosol (A2) (S8) (LRR R, MLRA 149B) Black Histic (A3) Thin Dark Surface (S9) Hydrogen Sulfide (A4) (LRR R, MLRA 149B) Stratified Layers (A5) Loamy Mucky Mineral (F1) Depleted Below Dark Surface (A11) (LRR K, L) Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) Sandy Mucky Mineral (S1) Depleted Matrix (F3) Sandy Redox (S5) Depleted Dark Surface (F7) Stripped Matrix (S6) Redox Dark Surface (F7) Dark Surface (S7) (LRR R, MLRA 144A, 145, 149 Dark Surface (S7) (LRR R, MLRA Mesic Spodic (TA6) (MLRA 144A, 145, 149 Dark Surface (S7) (LRR R, MLRA 149B) *Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic							L, R) L, R) K, L, R) K, L, R) K, L, R) LRA 149B) 145, 149B)	
Restrictive Type: <u>c</u> Depth (inch	Layer (if observe ravel fill nes): 10	ed):			-		Hydric soil pre	esent? <u>N</u>	
Refusal	at 10 inches o	due to	solid gravel fil	l.					

Project/Site: Jefferson Interurban Trail Phase 3	City/County:	Ixonia/Jef	ferson Sampling Date	: June 9, 2	022
Applicant/Owner: KL Engineering, Inc.	_	State: W	/I Sampling F	Point:	16
Investigator(s): K. Sherfinski		Section, T	ownship, Range: S26, T	8N, R16E	
Landform (hillslope, terrace, etc.): depression	Loc	al relief (c	oncave, convex, none):	concave	
Slope (%): 0-2 Lat.: Long.:		Datun	n:		
Soil Map Unit Name Matherton silt loam (MmA) & Wacousta	a silty clay loam	(Wa)	NWI Classification: no	ne	
Are climatic/hydrologic conditions of the site typical for this	time of the year	? Yes	(If no, explain in remar	ks)	
Are vegetation, soil, or hydrology	significantly	/ disturbed	? Are "normal		
Are vegetation, soil, or hydrology	naturally pr	oblematic?	circumstances	" present?	Yes
(If needed, explain any answers in remarks)					

SUMMARY OF FINDINGS

Hydrophytic vegetation present? Hydric soil present?	<u>Y</u> Y	Is the sampled area within a wetland? Y
Indicators of wetland hydrology present?	Y	If yes, optional wetland site ID:
Remarks: (Explain alternative procedures	here or in a s	eparate report.)

		Secondary indicators (minimum of two
Primary Indicators (minimum of one is requ	required)	
X Surface Water (A1)	X Surface Soil Cracks (B6)	
High Water Table (A2)	Aquatic Fauna (B13)	Drainage Patterns (B10)
Saturation (A3)	Marl Deposits (B15)	Moss Trim Lines (B16)
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	Oxidized Rhizospheres on Living	Cravfish Burrows (C8)
Drift Deposits (B3)	Roots (C3)	Saturation Visible on Aerial Imagery
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)	(C9)
Iron Deposits (B5)	Recent Iron Reduction in Tilled	Stunted or Stressed Plants (D1)
	Soils (C6)	X Geomorphic Position (D2)
Imagery (B7)	Thin Muck Surface (C7)	Shallow Aquitard (D3)
Sparsely Vegetated Concave	Other (Explain in Remarks)	EAC-Neutral Test (D5)
Surface (B8)		Microtopographic Relief (D4)
Field Observations:		
Field Observations: Surface water present? Yes X	No Depth (inches): 1-2	Indicators of
Field Observations: Surface water present? Yes X Water table present? Yes	_ No Depth (inches): 1-2 NoX Depth (inches):	Indicators of wetland
Field Observations: Surface water present? Yes Water table present? Yes Saturation present? Yes	No Depth (inches): 1-2 No X Depth (inches): .	Indicators of wetland
Field Observations: Surface water present? Yes Water table present? Yes Saturation present? Yes (includes capillary fringe) Yes	No Depth (inches): 1-2 No X Depth (inches):	Indicators of wetland hydrology
Field Observations: Surface water present? Yes Water table present? Yes Saturation present? Yes (includes capillary fringe) Image: Comparison of Comparis	NoDepth (inches):1-2NoXDepth (inches):NoXDepth (inches):	Indicators of wetland hydrology present? Y
Field Observations: Surface water present? Yes Water table present? Yes Saturation present? Yes (includes capillary fringe)	No Depth (inches): 1-2 No X Depth (inches): 1-2 No X Depth (inches):	Indicators of wetland hydrology present?
Field Observations: X Surface water present? Yes Water table present? Yes Saturation present? Yes (includes capillary fringe) Ves Describe recorded data (stream gauge, model)	No Depth (inches): 1-2 No X Depth (inches): 1-2 No X Depth (inches):	Indicators of wetland hydrology present? Y ctions), if available:
Field Observations: Surface water present? Yes Water table present? Yes Saturation present? Yes (includes capillary fringe)	No Depth (inches): 1-2 No X Depth (inches): No X Depth (inches): Depth (inches):	Indicators of wetland hydrology present? Y ctions), if available:
Field Observations: Surface water present? Yes Water table present? Yes Saturation present? Yes (includes capillary fringe)	No Depth (inches): 1-2 No X Depth (inches):	Indicators of wetland hydrology present? Y ctions), if available:
Field Observations: Surface water present? Yes Water table present? Yes Saturation present? Yes (includes capillary fringe)	No Depth (inches): 1-2 No X Depth (inches):	Indicators of wetland hydrology present? Y ctions), if available:
Field Observations: Surface water present? Yes Water table present? Yes Saturation present? Yes (includes capillary fringe)	No Depth (inches): 1-2 No X Depth (inches): No X Depth (inches): onitoring well, aerial photos, previous inspec	Indicators of wetland hydrology present? Y ctions), if available:
Field Observations: Surface water present? Yes Water table present? Yes Saturation present? Yes (includes capillary fringe)	No Depth (inches): 1-2 No X Depth (inches): No X Depth (inches): onitoring well, aerial photos, previous inspective are from neighboring farm.	Indicators of wetland hydrology present? Y ctions), if available:
Field Observations: Surface water present? Yes Water table present? Yes Saturation present? Yes (includes capillary fringe)	No Depth (inches): 1-2 No X Depth (inches): No X Depth (inches): Depth (inches): ponitoring well, aerial photos, previous inspect	Indicators of wetland hydrology present? Y ctions), if available:

VEGETATION - Use scientific names of plan	ts			Sampling Point: 16
Tree Stratum Plot Size (30ft radius) 1 2 3	Absolute % Cover	Dominant Species	Indicator Status	50/20 Thresholds20%50%Tree Stratum0Sapling/Shrub Stratum0Herb Stratum0Woody Vine Stratum0
4 5 6 7 8 9 10 Sapling/Shrub Stratum Plot Size (30ft radius)	0	= Total Cover		Dominance Test Worksheet Number of Dominant Species that are OBL, FACW, or FAC: 0 Total Number of Dominant Species Across all Strata: 0 Percent of Dominant Species that are OBL, FACW, or FAC: 0 (B) Percent of Dominant Species that are OBL, FACW, or FAC: 0.00%
1 2 3 4 5 6 7 8 9				Prevalence Index WorksheetTotal % Cover of:OBL species 0 X 1 = 0 FACW species 0 X 2 = 0 FAC species 0 X 3 = 0 FACU species 0 X 4 = 0 UPL species 0 X 5 = 0 Column totals 0 (A) 0 Prevalence Index = $B/A =$
Herb Stratum Plot Size (5ft radius) 1	0 Absolute % Cover	Total Cover Dominant Species	Indicator Status	Hydrophytic Vegetation Indicators: Rapid test for hydrophytic vegetation Dominance test is >50% Prevalence index is ≤3.0* Morphological adaptations* (provide supporting data in Remarks or on a separate sheet) Problematic hydrophytic vegetation* (explain) *Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic
3 10 11 12 13 14 15				Definitions of Vegetation Strata: Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
Woody Vine Plot Size(30ft radius) Stratum	0 Absolute % Cover	= Total Cover Dominant Species	Indicator Status	 Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height.
3 4 5 Remarks: (Include photo numbers here or on a separ	 	= Total Cover		Hydrophytic vegetation present? Y

Phalaris arundinacea is the dominant edge vegetation surounding the wetland. Wetland area was likely treated with herbicide.

SOIL								Sampling Point:	16
Profile Description: (Describe to the depth needed to document the Depth Matrix Redox Features						indicato	or or confirm the abse	sence of indicators.)	
(Inches)	Color (moist)	%	Color (moist)	%	Type*	Loc**	Texture	Remar	ks
	, , , , , , , , , , , , , , , , , , ,								
*Type: C=C	Concentration, D=	Deplet	ion, RM=Reduce	d Matrix	x, CS=C	overed c	r Coated Sand Grain	S	
**Location:	PL=Pore Lining,	M=Ma	trix						
Hydric Soi	I Indicators:						Indicators for P	roblematic Hydric S	oils:
Histosol (A1) Polyvalue Below Surface 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) (S8) (LRR R, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) 5 cm Mucky Peat or Peat (S3) (LRR K, L, I) Hydrogen Sulfide (A4) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, I) Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) Thin Dark Surface (S9) (LRR K, L) Sandy Mucky Mineral (S1) Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 144) Sandy Redox (S5) Depleted Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 144) Stripped Matrix (S6) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA Mesic Spodic or problematic Other (Explain in Remarks) 149B) *Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Other roblematic								(A 149B (X, L, R) (R K, L) (A (A K, L, R) (A (A K, L, R) (A K, L, R) (A K, L, R) (A K, A K, A (A K, A K, A (A K, A K, A K, A (A K, A K,	
Restrictive Type: <u>r</u> Depth (inch	Layer (if observe nanure nes):0	d):			-		Hydric soil pre	sent? Y	
Unable	to access soil	due to) liquid manure						

Project/Site: Jefferson Interurban Trail Phase 3	City/County:	Ixonia/Jeffer	rson Sampling Date: June 9, 2022	
Applicant/Owner: KL Engineering, Inc.		State: WI	Sampling Point: 17	
Investigator(s): K. Sherfinski		Section, Toy	wnship, Range: S26, T8N, R16E	
Landform (hillslope, terrace, etc.): hillslope	Loc	cal relief (con	cave, convex, none): convex	
Slope (%): 2-3 Lat.: Long	J.:	Datum:		
Soil Map Unit Name Matherton silt loam (MmA)			NWI Classification: none	
Are climatic/hydrologic conditions of the site typical for th	is time of the year	? Yes	(If no, explain in remarks)	
Are vegetation, soil, or hydrology	significantly	/ disturbed?	Are "normal	
Are vegetation, soil, or hydrology	naturally pr	oblematic?	circumstances" present? Yes	
(If needed, explain any answers in remarks)				

SUMMARY OF FINDINGS

Hydrophytic vegetation present? Hydric soil present?	N N	Is the sampled area within a wetland? N
Indicators of wetland hydrology present?	<u>N</u>	If yes, optional wetland site ID:
Remarks: (Explain alternative procedures h	ere or in a se	eparate report.)

HYDROLOGY

		Secondary Indicators (minimum of two
Drimon Indicators (minimum of and in the	wined, about all that apply)	required)
Primary indicators (minimum of one is required)		
Surface Water (A1)	Water-Stained Leaves (B9)	Surface Soil Cracks (B6)
High Water Table (A2)	Aquatic Fauna (B13)	Drainage Patterns (B10)
Saturation (A3)	Marl Deposits (B15)	Moss Trim Lines (B16)
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	Oxidized Rhizospheres on Living	Crayfish Burrows (C8)
Drift Deposits (B3)	Roots (C3)	Saturation Visible on Aerial Imagery
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)	(C9)
Iron Deposits (B5)	Recent Iron Reduction in Tilled	Stunted or Stressed Plants (D1)
Inundation Visible on Aerial	Soils (C6)	Geomorphic Position (D2)
Imagery (B7)	Thin Muck Surface (C7)	Shallow Aquitard (D3)
Sparsely Vegetated Concave	Other (Explain in Remarks)	EAC-Neutral Test (D5)
Surface (B8)		Microtopographic Relief (D4)
Field Observations:		
Surface water present? Ves	No X Depth (inches):	Indicators of
Water table present? Ves	No X Depth (inches):	wetland
Seturation present?	No X Depth (inches):	bydrology
(includes conillers frings)		
(includes capillary fringe)		present? N
Describe recorded data (stream gauge, me	onitoring well, aerial photos, previous inspe	ctions), if available:
Remarks:		
Approximately 12 inches in elevati	on higher than wetland.	
· · ·	-	

ontifi of nlant

VEGETATION - Use scientific names of plant	s			Sampling Point: 17
Tree Stratum Plot Size (30ft radius)	Absolute % Cover	Dominant Species	Indicator Status	50/20 Thresholds 20% 50% Tree Stratum 0 0 Continue (blanch Ottochung) 0 0
1 2 3 4				Saping/Shrub Stratum00Herb Stratum2460Woody Vine Stratum00
5 6				Dominance Test Worksheet Number of Dominant Species that are OBI
8 9				FACW, or FAC: 0 (A) Total Number of Dominant Species Across all Strata: 1 (B)
	0 =	Total Cover		Percent of Dominant Species that are OBL,
Sapling/Shrub Stratum Plot Size (30ft radius)	Absolute % Cover	Dominant Species	Indicator Status	FACW, or FAC: 0.00% (A/B)
1 2 3 4 5 6 7 8 9				Prevalence Index WorksheetTotal % Cover of:OBL species 0 FACW species 5 $x 2 =$ 10 FAC species 0 $x 3 =$ 0 FACU species 15 $x 4 =$ 60 UPL species 100 $x 5 =$ 500 Column totals 120 Prevalence Index = $B/A =$ 4.75
10	0 =	Total Cover		
Herb Stratum Plot Size (5ft radius) 1 Bromus inermis 2 Vicia americana 3 Phalaris arundinacea 4 Arctium minus 5 Taraxacum officinale 6	Absolute % Cover 100 5 3 2	Dominant Species Y N N N N	Indicator Status UPL FACU FACW FACU FACU	Hydrophytic Vegetation Indicators: Rapid test for hydrophytic vegetation Dominance test is >50% Prevalence index is ≤3.0* Morphological adaptations* (provide supporting data in Remarks or on a separate sheet) Problematic hydrophytic vegetation* (explain) *Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic
10 11 12 13				Definitions of Vegetation Strata: Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
14 15				Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
Woody Vine Plot Size (30ft radius)	= Absolute	 Total Cover Dominant 	Indicator	Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Stratum 1 2	% Cover	Species	Status	Woody vines - All woody vines greater than 3.28 ft in height.
3 4 5	0 =	= Total Cover		Hydrophytic vegetation present? N
Remarks: (Include photo numbers here or on a separa	te sheet)			
Old field.	ile sheet)			

SOIL							S	ampling Point:	17
Profile Des	cription: (Descri	be to th	e depth needed	to docu	ment the	indicato	or or confirm the absend	ce of indicators.)	
Depth	Matrix		Rec	lox Fea	tures		Texture	Remarks	
(Inches)	Color (moist)	%	Color (moist)	%	Type*	Loc**			-
0-9	10YR 3/2	100					silt loam		
9-16	10YR 3/4	98	10YR 3/6	2	С	М	silty clay		
*T		Dealet		- I Matu					
*Type: C=C	PI -Poro Lining	Deplet	ion, RIVI=Reduce	ed Matri	x, CS=C	overed c	or Coated Sand Grains		
Lucation.		ivi–iviai					Indiantara far Dra	blomatia Uvdria Sa	ilo
Hyune Sol	i muicators:						indicators for Fro	biematic Hydric Sc	<i>ms</i> :
Histosol (A1) Polyvalue Below Surface 2 cm Muck (A10) (LRR K, L, MLRA 149B Histosol (A1) (S8) (LRR R, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) (LRR R, MLRA 149B Dark Surface (S7) (LRR K, L Stratified Layers (A5) Loamy Mucky Mineral (F1) Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) Thin Dark Surface (S9) (LRR K, L) Sandy Mucky Mineral (S1) Depleted Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 149B Sandy Redox (S5) Depleted Dark Surface (F7) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA T49B Other (Explain in Remarks) Other (Explain in Remarks)								A 149B , L, R) R K, L, R) R K, L) ₹R K, L, R) 145, 149B)	
Restrictive Type: <u>c</u> Depth (inch	Layer (if observe ravel fill nes): 16	ed):			-		Hydric soil prese	ent? <u>N</u>	
Refusal	at 16 inches o	due to	solid gravel fil	I.					

Project/Site: Jefferson Interurban Trail Phase 3	City/County:	Ixonia/Jeffe	erson Sampling Date:	June 9, 2022	
Applicant/Owner: KL Engineering, Inc.	_	State: WI	Sampling Po	oint: 18	
Investigator(s): K. Sherfinski		Section, To	wnship, Range: S26, T8	N, R16E	
Landform (hillslope, terrace, etc.): toe of slope	Loc	cal relief (co	ncave, convex, none):	concave	
Slope (%): 0-2 Lat.: Long.:		Datum:			
Soil Map Unit Name Wacousta silty clay loam (Wa)			NWI Classification: E1K	w	
Are climatic/hydrologic conditions of the site typical for this	time of the year	? Yes	(If no, explain in remarks	5)	
Are vegetation, soil, or hydrology	significantly	y disturbed?	Are "normal		
Are vegetation, soil, or hydrology	naturally pr	oblematic?	circumstances" p	present? Y	/es
(If needed, explain any answers in remarks)					

SUMMARY OF FINDINGS

Hydrophytic vegetation present? Hydric soil present?	<u>Y</u> Y	Is the sampled area within a wetland?					
Indicators of wetland hydrology present?	Y	If yes, optional wetland site ID:	_				
Remarks: (Explain alternative procedures here or in a separate report.)							

		Secondary Indicators (minimum of two		
Primary Indicators (minimum of one is requ	uired; check all that apply)	required)		
Surface Water (A1)	X Water-Stained Leaves (B9)	Surface Soil Cracks (B6)		
X High Water Table (A2)	Aquatic Fauna (B13)	Drainage Patterns (B10)		
X Saturation (A3)	Marl Deposits (B15)	Moss Trim Lines (B16)		
X Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)		
Sediment Deposits (B2)	Oxidized Rhizospheres on Living	Crayfish Burrows (C8)		
Drift Deposits (B3)	Roots (C3)	Saturation Visible on Aerial Imagery		
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)	(C9)		
Iron Deposits (B5)	Recent Iron Reduction in Tilled	Stunted or Stressed Plants (D1)		
Inundation Visible on Aerial	Soils (C6)	X Geomorphic Position (D2)		
Imagery (B7)	Thin Muck Surface (C7)	Shallow Aquitard (D3)		
Sparsely Vegetated Concave	Other (Explain in Remarks)	X FAC-Neutral Test (D5)		
Surface (B8)		Microtopographic Relief (D4)		
Field Observations:				
Surface water present? Yes	No X Depth (inches):	Indicators of		
Water table present? Yes X	No Depth (inches): 1	wetland		
Saturation present? Yes X	No Depth (inches): At surfac	e hydrology		
(includes capillary fringe)		present? Y		
Describe recorded data (stream gauge, mo	onitoring well, aerial photos, previous inspec	ctions), if available:		
Describe recorded data (stream gauge, mo	onitoring well, aerial photos, previous inspec	ctions), if available:		
Describe recorded data (stream gauge, me	onitoring well, aerial photos, previous inspec	ctions), if available:		
Describe recorded data (stream gauge, mo	onitoring well, aerial photos, previous inspec	ctions), if available:		
Describe recorded data (stream gauge, mo Remarks:	onitoring well, aerial photos, previous inspec	ctions), if available:		
Describe recorded data (stream gauge, mo Remarks:	onitoring well, aerial photos, previous inspec	ctions), if available:		
Describe recorded data (stream gauge, mo Remarks:	onitoring well, aerial photos, previous inspec	ctions), if available:		

EGETATION - Use scientific names of plant	S			Sampling Point: 18
Tree Stratum Plot Size(30ft radius) I <u>Acer saccharinum</u>	Absolute % Cover 10	Dominant Species Y	Indicator Status FACW	50/20 Thresholds 20% 50% Tree Stratum 2 5 Sapling/Shrub Stratum 0 0 Herb Stratum 30 76
				Woody Vine Stratum 0 0 Dominance Test Worksheet 0 Number of Dominant Species that are OBL.
} 		- Total Cover		FACW, or FAC: 3 (A) Total Number of Dominant 3 (B) Species Across all Strata: 3 (B)
Sapling/Shrub Plot Size(30ft radius) Stratum	Absolute % Cover	Dominant Species	Indicator Status	Species that are OBL, FACW, or FAC: 100.00% (A/B
				Prevalence Index WorksheetTotal % Cover of:OBL species 90 X 1 = 90 FACW species 71 X 2 = 142 FAC species 0 X 3 = 0 FACU species 0 X 4 = 0 UPL species 0 X 5 = 0 Column totals 161 (A) 232 Prevalence Index = $B/A =$ 1.44
Herb Stratum Plot Size (5ft radius) Leersia oryzoides Phalaris arundinacea Impatiens capensis Persicaria amphibia Schoenoplectus tabernaemontani Acer saccharinum	0 = Absolute % Cover 60 40 20 20 10 1	Total Cover Dominant Species Y Y N N N N N N N	Indicator Status OBL FACW FACW OBL OBL FACW	Hydrophytic Vegetation Indicators: Rapid test for hydrophytic vegetation X Dominance test is >50% X Prevalence index is ≤3.0* Morphological adaptations* (provide supporting data in Remarks or on a separate sheet) Problematic hydrophytic vegetation* (explain) *Indicators of hydric soil and wetland hydrology must b present, unless disturbed or problematic
				Definitions of Vegetation Strata: Tree - Woody plants 3 in. (7.6 cm) or more in diamete breast height (DBH), regardless of height.
		Total Cover		Sapling/shrub - Woody plants less than 3 in. DBH an greater than 3.28 ft (1 m) tall.
Woody Vine Plot Size (30ft radius) Stratum	Absolute % Cover	Dominant Species	Indicator Status	 Woody vines - All woody vines greater than 3.28 ft in height.
		Total Cover		Hydrophytic vegetation present? Y

SOIL								Sampling Point:	18
Profile Des	cription: (Descr	ibe to th	e depth needed	to docu	ment the	e indicato	or or confirm the abser	nce of indicators.)	
Depth (Inchoo)	Matrix	0/	Rec Color (moint)		tures	1 00**	Texture	Remar	ks
		70		70	Туре	LOC	muck	-	
0-10	102.3/	100					MUCK		
10.24	5V 5/1	95	10VP 4/6	15	C	Ν4			
10-24	515/1	00	1011(4/0	15	C	IVI	Silly Clay		
*Type: C=C	Concentration, D	=Deplet	ion, RM=Reduce	ed Matri	x, CS=C	overed c	or Coated Sand Grains	;	
**Location:	PL=Pore Lining	, M=Mat	trix						
Hydric Soi	I Indicators:						Indicators for Pr	oblematic Hydric S	oils:
Hydric Soil Indicators: Indicators for Problematic Hydric Soils: X Histoc Epipedon (A2) (S8) (LRR R, MLRA 149B) Black Histic (A3) Thin Dark Surface (S9) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Depleted Below Dark Surface (A12) Loamy Mucky Mineral (F1) Dark Surface (S9) (LRR K, L) X Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) Sandy Mucky Mineral (S1) Depleted Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Depleted Dark Surface (F7) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) *Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Polyralue Beiow Present?Y									A 149B (, L, R) (R K, L, R) (R K, L) () RR K, L, R) MLRA 149B) ()

Project/Site: Jefferson Interu	rban Trail Phase 3	City/County:	Ixonia/Jeffersor	n Sampling Date: June 9, 2	2022
Applicant/Owner: KL Enginee	ring, Inc.		State: WI	Sampling Point:	19
Investigator(s): K. Sherfinski			Section, Towns	ship, Range: S26, T8N, R16E	
Landform (hillslope, terrace, etc	.): top of road berm	Loc	cal relief (concav	ve, convex, none): convex	
Slope (%): <u>5-6</u> Lat.:	Long.	:	Datum:		
Soil Map Unit Name Wacousta s	ilty clay loam (Wa)		NM	VI Classification: T3Kw	
Are climatic/hydrologic condition	ns of the site typical for this	s time of the year	? Yes (If I	no, explain in remarks)	
Are vegetation, soil	, or hydrology	significantly	y disturbed?	Are "normal	
Are vegetation, soil	, or hydrology	naturally pr	oblematic?	circumstances" present?	Yes
(If needed, explain any answers	in remarks)				

SUMMARY OF FINDINGS

Hydrophytic vegetation present? Hydric soil present?	<u>N</u>	Is the sampled area within a wetland?	<u> </u>		
Indicators of wetland hydrology present?	Ν	If yes, optional wetland site ID:			
Remarks: (Explain alternative procedures here or in a separate report.)					

		Secondary Indicators (minimum of two
Primary Indicators (minimum of one is requi	red: check all that apply)	required)
Surface Water (A1)	Surface Soil Cracks (B6)	
High Water Table (A2)	Aquatic Fauna (B13)	Drainage Patterns (B10)
Saturation (A3)	Marl Deposits (B15)	Moss Trim Lines (B16)
Water Marks (B1)	Hvdrogen Sulfide Odor (C1)	Drv-Season Water Table (C2)
Sediment Deposits (B2)	Oxidized Rhizospheres on Living	Cravfish Burrows (C8)
Drift Deposits (B3)	Roots (C3)	Saturation Visible on Aerial Imagery
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)	(C9)
Iron Deposits (B5)	Recent Iron Reduction in Tilled	Stunted or Stressed Plants (D1)
Inundation Visible on Aerial	Soils (C6)	Geomorphic Position (D2)
Imagery (B7)	Thin Muck Surface (C7)	Shallow Aquitard (D3)
Sparsely Vegetated Concave	Other (Explain in Remarks)	FAC-Neutral Test (D5)
Surface (B8)		Microtopographic Relief (D4)
Field Observations:		
Surface water present? Yes	No X Depth (inches):	Indicators of
Water table present? Yes	No X Depth (inches):	wetland
Saturation present? Yes	No X Depth (inches):	hydrology
(includes capillary fringe)		present? N
Describe recorded data (stream gauge, mor	nitoring well, aerial photos, previous inspec	ctions), if available:
Remarks:		
Approximately 10 feet in elevation h	igher than wetland.	

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				Samping Fornt. 19
Tree Stratum Plot Size(30ft radius) 1 2 3	Absolute % Cover	Dominant Species	Indicator Status	50/20 Thresholds20%50%Tree Stratum000Sapling/Shrub Stratum0Herb Stratum2972Woody Vine Stratum00
4 5 6 7 7 3 9 0 Sapling/Shrub Stratum Plot Size (30ft radius)		Total Cover Dominant Species	Indicator Status	Dominance Test Worksheet Number of Dominant Species that are OBL, FACW, or FAC: 0 (A) Total Number of Dominant Species Across all Strata: 2 (B) Percent of Dominant Species that are OBL, FACW, or FAC: 0.00% (A/B)
1 2 3 4 5 6 7 8 9				Prevalence Index WorksheetTotal % Cover of:OBL species 0 X 1 = 0 FACW species 0 X 2 = 0 FAC species 3 X 3 = 9 FACU species 85 X 4 = 340 UPL species 55 Column totals 143 IA3 624 Prevalence Index = $B/A =$ 4.36
Herb Stratum Plot Size (5ft radius) 1 Poa pratensis 2 Bromus inermis 3 Anemone virginiana 4 Asclepias syriaca 5 Achillea millefolium 6 Rhamnus cathartica 7	0 = Absolute % Cover 60 40 15 15 10 3	Total Cover Dominant Species Y Y N N N N N N	Indicator Status FACU UPL FACU UPL FACU FACU FAC	Hydrophytic Vegetation Indicators: Rapid test for hydrophytic vegetation Dominance test is >50% Prevalence index is ≤3.0* Morphological adaptations* (provide supporting data in Remarks or on a separate sheet) Problematic hydrophytic vegetation* (explain) *Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic
2 2 3				Definitions of Vegetation Strata: Tree - Woody plants 3 in. (7.6 cm) or more in diameter a breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and
5 Woody Vine Plot Size(30ft radius) 1 2	143 = Absolute % Cover	 Total Cover Dominant Species 	Indicator Status	greater than 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless o size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height.
3 4 5		Total Cover		Hydrophytic vegetation present? <u>N</u>

SOIL								Sampling Point:	19
Profile Des	Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (Inches)	Color (moist)	%	Color (moist)	iox Feat %	ures Type*	L oc**	Texture	Remarks	6
0-5	10YR 3/3	100		70	Турс	LUC	loam		
	101110,0	100					loan		
*Type: C=C	Concentration, D	=Depleti	ion, RM=Reduce	ed Matrix	x, CS=C	overed o	r Coated Sand Grain	ns	
**Location:	PL=Pore Lining,	M=Mat	rix						-
Hydric Soi	I Indicators:						Indicators for F	Problematic Hydric Soi	ls:
His His Bla Hyd Stra De Thi Sar Sar Sar Sar Sar Sar Sar Sar Sar Sar	Histosol (A1) Polyvalue Below Surface 2 cm Muck (A10) (LRR K, L, MLRA 149B Histic Epipedon (A2) (S8) (LRR R, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) 5 cm Mucky Peat or Peat (S3) (LRR K, L, MLRA 149B) Stratified Layers (A5) Loamy Mucky Mineral (F1) Depleted Below Dark Surface (A11) (LRR K, L) Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) Thin Dark Surface (S9) (LRR K, L) Sandy Mucky Mineral (S1) Depleted Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 14) Sandy Redox (S5) Depleted Dark Surface (F7) Redox Depressions (F8) Dark Surface (S7) (LRR R, MLRA Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Other (Explain in Remarks)						149B L, R) K, L, R) K, L, R) R K, L, R) LRA 149B) 45, 149B)		
Type: <u> </u>	ravel fill les): 5	eu):			-		Hydric soil pre	esent? N	
Refusal	at 5 inches di	ue to s	olid gravel fill.						

Project/Site: Jefferson Interurban Trail Phase 3	City/County:	Ixonia/Jeffe	erson Sampling Date:	June 9, 202	22
Applicant/Owner: KL Engineering, Inc.	_	State: WI	Sampling P	oint: 2	20
Investigator(s): K. Sherfinski		Section, To	wnship, Range: S26, T8	N, R16E	
Landform (hillslope, terrace, etc.): toe of slope	Loc	cal relief (co	ncave, convex, none):	concave	
Slope (%): 0-2 Lat.: Long.:		Datum:			
Soil Map Unit Name Wacousta silty clay loam (Wa)			NWI Classification: T3k	Św	
Are climatic/hydrologic conditions of the site typical for this	time of the year	? Yes	(If no, explain in remark	s)	
Are vegetation, soil, or hydrology	significantly	y disturbed?	Are "normal		
Are vegetation, soil, or hydrology	naturally pr	oblematic?	circumstances"	present?	Yes
(If needed, explain any answers in remarks)					

SUMMARY OF FINDINGS

Hydrophytic vegetation present? Hydric soil present?	<u>Y</u> Y	Is the sampled area within a wetland?			
Indicators of wetland hydrology present?	Y	If yes, optional wetland site ID:			
Remarks: (Explain alternative procedures here or in a separate report.)					

		Secondary Indicators (minimum of two
Primary Indicators (minimum of one is requ	required)	
Surface Water (A1)	X Water-Stained Leaves (B9)	Surface Soil Cracks (B6)
X High Water Table (A2)	Aquatic Fauna (B13)	Drainage Patterns (B10)
X Saturation (A3)	Marl Deposits (B15)	Moss Trim Lines (B16)
X Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	Oxidized Rhizospheres on Living	Crayfish Burrows (C8)
Drift Deposits (B3)	Roots (C3)	Saturation Visible on Aerial Imagery
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)	(C9)
Iron Deposits (B5)	Recent Iron Reduction in Tilled	Stunted or Stressed Plants (D1)
Inundation Visible on Aerial	Soils (C6)	X Geomorphic Position (D2)
Imagery (B7)	Thin Muck Surface (C7)	Shallow Aquitard (D3)
Sparsely Vegetated Concave	Other (Explain in Remarks)	X FAC-Neutral Test (D5)
Surface (B8)		Microtopographic Relief (D4)
Field Observations:		
Surface water present? Yes	No X Depth (inches):	Indicators of
Water table present? Yes X	No Depth (inches): 1	wetland
Saturation present? Yes X	No Depth (inches): At surfac	e hydrology
(includes capillary fringe)		present? Y
Describe recorded data (stream gauge, mo	onitoring well, aerial photos, previous inspec	ctions), if available:
Describe recorded data (stream gauge, mo	onitoring well, aerial photos, previous inspec	ctions), if available:
Describe recorded data (stream gauge, me	onitoring well, aerial photos, previous inspec	ctions), if available:
Describe recorded data (stream gauge, mo	onitoring well, aerial photos, previous inspec	ctions), if available:
Describe recorded data (stream gauge, mo Remarks:	onitoring well, aerial photos, previous inspec	ctions), if available:
Describe recorded data (stream gauge, mo Remarks:	onitoring well, aerial photos, previous inspec	ctions), if available:
Describe recorded data (stream gauge, mo Remarks:	onitoring well, aerial photos, previous inspec	ctions), if available:

VEGETATION - Use scientific names of plant	S			Sampling Point: 20
Trac Stratum Dist Size (20th radius)	Absolute	Dominant	Indicator	50/20 Thresholds 20% 50%
ree Stratum Plot Size (30tt radius)	% Cover	Species	Status	Tree Stratum 6 15
1 Acer saccharinum	30	Y	FACW	Sapling/Shrub Stratum 1 3
2				Herb Stratum 27 68
3				Woody Vine Stratum 0 0
4				Device and Test West allows
5				Dominance Test Worksneet
7				Number of Dominant Species that are OBI
8				FACW or FAC: 5 (A)
9				Total Number of Dominant
10				Species Across all Strata: 5 (B)
	30	= Total Cover		Percent of Dominant
				Species that are OBI
Sapling/Shrub	Absolute	Dominant	Indicator	FACW, or FAC: 100.00% (A/B)
Stratum Plot Size (30ft radius)	% Cover	Species	Status	(,
1 Fraxinus pennsylvanica	5	Y	FACW	Prevalence Index Worksheet
2		<u> </u>		Total % Cover of:
3				OBL species $60 \times 1 = 60$
4				FACW species $111 \times 2 = 222$
5		. <u> </u>		FAC species $0 \times 3 = 0$
6				FACU species 0 x 4 = 0
7				UPL species $0 \times 5 = 0$
8				Column totals 171 (A) 282 (B)
9				Prevalence Index = $B/A = 1.65$
10				
	5	= Total Cover		
				Hydrophytic Vegetation Indicators:
Herb Stratum Plot Size (5ft radius)	Absolute	Dominant	Indicator	Rapid test for hydrophytic vegetation
1 Corov loguatria	% Cover	Species	Status	X Dominance test is >50%
2 Phalaris arundinacea	40	<u> </u>		$\frac{1}{2} \text{Prevalence index is } \geq 3.0$
3 Impatiens capensis	30		FACW	supporting data in Remarks or on a
4 Persicaria amphibia	10	<u> </u>	OBL	separate sheet)
5 Pilea pumila	5	N	FACW	Problematic hydrophytic vegetation*
6 Acer saccharinum	1	Ν	FACW	(explain)
7				*Indicators of hydric soil and wetland hydrology must be
8				present, unless disturbed or problematic
9				
10				Definitions of Vegetation Strata:
11				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
12				breast height (DBH), regardless of height.
14				Continue Mandalanta lass than 2 in DDU and
15				greater than 3.28 ft (1 m) tall.
	136	= Total Cover		Herb - All herbaceous (non-woody) plants, regardless of
Weedy Vine	Abaaluta	Dominent	Indiant	size, and woody plants less than 3.28 ft tall.
Stratum Plot Size (30ft radius)		Dominant	Stotus	
1	% Cover	Species	Status	Woody vines - All woody vines greater than 3.28 ft in height
2				noight
3		·		
4				Hydrophytic
5		·		venetation
°		- Total Cover		nresent?
Remarks: (Include photo numbers here or on a separa Floodplain forest/emergent wetland.	ate sheet)			

SOIL							S	Sampling Point:	20
Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)									
Depth (Inchoo)	Matrix Color (moiot)	0/	Rec Color (moiot)		tures	1 00**	Texture	Remar	ks
		100		70	Туре	LOC	muck		
0-14	102.3/	100					MUCK		
14-20	5V 1/1	05	10VP 4/6	5	6	Ν4	cilty clay		
14-20	51 4/1	93	1011(4/0	5	C	IVI	Silly Clay		
*Type: C=C	Concentration, D	=Deplet	ion, RM=Reduce	ed Matri	x, CS=C	overed c	r Coated Sand Grains	1	
**Location:	PL=Pore Lining	, M=Mat	rix						
Hydric Soi	I Indicators:						Indicators for Pro	oblematic Hydric S	oils:
Hydric Soil Indicators: Indicators for Problematic Hydric Soils:								RA 149B K, L, R) RR K, L, R) -) RR K, L, R) MLRA 149B) , 145, 149B)	

Project/Site:	Jefferson Interurba	n Trail Phase 3	City/County:	Ixonia/Jeffe	erson Sampling Date	: June 9, 2	022
Applicant/Owne	er: KL Engineering	g, Inc.		State: WI	Sampling F	Point:	21
Investigator(s):	K. Sherfinski			Section, To	ownship, Range: S27, T	8N, R16E	
Landform (hills	ope, terrace, etc.):	top of road berm	Lo	cal relief (co	ncave, convex, none):	convex	
Slope (%): 6	Lat.:	Long.	:	Datum	:		
Soil Map Unit N	lameWacousta silty	clay loam (Wa)			NWI Classification: T3	Kw	
Are climatic/hyd	drologic conditions	of the site typical for this	s time of the year	? Yes	(If no, explain in remar	ks)	
Are vegetation	, soil	, or hydrology	significantl	y disturbed?	Are "normal		
Are vegetation	, soil	, or hydrology	naturally p	roblematic?	circumstances	" present?	Yes
(If needed, exp	lain any answers in	remarks)					

SUMMARY OF FINDINGS

Hydrophytic vegetation present? Hydric soil present?	<u>N</u>	Is the sampled area within a wetland?	<u> </u>		
Indicators of wetland hydrology present?	N	If yes, optional wetland site ID:			
Remarks: (Explain alternative procedures here or in a separate report.)					

		Secondary Indicators (minimum of two
Primary Indicators (minimum of one is requi	red [.] check all that apply)	required)
Surface Water (A1)	Water-Stained Leaves (B9)	Surface Soil Cracks (B6)
High Water Table (A2)	Aquatic Fauna (B13)	Drainage Patterns (B10)
Saturation (A3)	Marl Deposits (B15)	Moss Trim Lines (B16)
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)
Sediment Deposits (B2)		Cravitsh Burrows (C8)
Drift Deposits (B3)	Roots (C3)	Saturation Visible on Aerial Imagery
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)	
Iron Deposits (B5)	Recent Iron Reduction in Tilled	Stunted or Stressed Plants (D1)
Inundation Visible on Aerial	Soils (C6)	Geomorphic Position (D2)
Imagery (B7)	Thin Muck Surface (C7)	Shallow Aquitard (D3)
Sparsely Vegetated Concave	Other (Explain in Remarks)	FAC-Neutral Test (D5)
Surface (B8)		Microtopographic Relief (D4)
Field Observations:		
Surface water present? Yes	No X Depth (inches):	Indicators of
Water table present? Yes	No X Depth (inches):	wetland
Saturation present? Yes	No X Depth (inches):	hydrology
(includes capillary fringe)	· · · /	present? N
Describe recorded data (stream gauge, mor	itoring well, aerial photos, previous inspec	ctions), if available:
Remarks:		
Approximately 15 feet in elevation h	igher than wetland.	
otifi of nla . . -+

				Samping Font. 21
Tree Stratum Plot Size(30ft radius)	Absolute % Cover	Dominant Species	Indicator Status	50/20 Thresholds20%50%Tree Stratum000Sapling/Shrub Stratum0Herb Stratum2664Woody Vine Stratum00
Sapling/Shrub		= Total Cover		Dominance Test Worksheet Number of Dominant Species that are OBL, FACW, or FAC: 0 O (A) Total Number of Dominant Species Across all Strata: 2 Percent of Dominant Species that are OBL, FACW, or FAC: 0 (A) Percent of Dominant Species that are OBL, FACW, or FAC: 0.00%
Stratum Plot Size (30ft radius)	% Cover	Species	Status	Prevalence Index Worksheet Total % Cover of:
				OBL species0 $x 1 =$ 0FACW species2 $x 2 =$ 4FAC species18 $x 3 =$ 54FACU species33 $x 4 =$ 132UPL species75 $x 5 =$ 375Column totals128(A)565Prevalence Index = B/A =4.41
Herb Stratum Plot Size(5ft radius) Bromus inermis Poa pratensis Equisetum arvense Daucus carota Asclepias syriaca Vitis riparia Achillea millefolium Fraxinus pennsylvanica	0 Absolute % Cover 50 30 15 15 15 10 3 3 2	= Total Cover Dominant Species Y N N N N N N N N N	Indicator Status UPL FACU FAC UPL UPL FAC FACU FACW	Hydrophytic Vegetation Indicators: Rapid test for hydrophytic vegetation Dominance test is >50% Prevalence index is ≤3.0* Morphological adaptations* (provide supporting data in Remarks or on a separate sheet) Problematic hydrophytic vegetation* (explain) *Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic Definitions of Venetation Strata:
				 Tree - Woody plants 3 in. (7.6 cm) or more in diameter breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH an greater than 3.28 ft (1 m) tall.
Woody Vine Plot Size(30ft radius) Stratum	128 Absolute % Cover	 Total Cover Dominant Species 	Indicator Status	 Herb - All herbaceous (non-woody) plants, regardless size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height.
3 	0	= Total Cover		Hydrophytic vegetation present? <u>N</u>

SOIL								Sampling Point: 21		
Profile Des	cription: (Descri	be to th	e depth needed	to docu	ment the	indicato	r or confirm the abse	nce of indicators.)		
Depth (Inchas)	Matrix Redox Features		tures	1 ~ ~**	Texture	Remarks				
(inches) 0-3	10YR 3/3	100	Color (moist)	%	Туре	LOC	loam			
*Type: C=C	Concentration, D=	-Deplet	ion, RM=Reduce	d Matri	x, CS=C	overed o	r Coated Sand Grains	3		
**Location:	PL=Pore Lining,	M=Mat	rix							
Hydric Soi	I Indicators:						Indicators for Pr	oblematic Hydric Soils:		
Histosol (A1) Polyvalue Below Surface 2 cm Muck (A10) (LRR K, L, MLRA 1498) Histic Epipedon (A2) (S8) (LRR R, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, F Black Histic (A3) Thin Dark Surface (S9) 5 cm Mucky Peat or Peat (S3) (LRR K, L Hydrogen Sulfide (A4) (LRR R, MLRA 149B) Dark Surface (S7) (LRR K, L Stratified Layers (A5) Loamy Mucky Mineral (F1) Depleted Below Dark Surface (A11) (LRR K, L) Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) Thin Dark Surface (S9) (LRR K, L) Sandy Mucky Mineral (S1) Depleted Dark Surface (F6) Piedmont Floodplain Soils (F19) (MLRA 144A, 145, Sandy Redox (S5) Sandy Redox (S5) Depleted Dark Surface (F7) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) *Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic							Redox (A16) (LRR K, L, R) Peat or Peat (S3) (LRR K, L, R) (S7) (LRR K, L low Surface (S8) (LRR K, L) rface (S9) (LRR K, L) ese Masses (F12) (LRR K, L, R) iodplain Soils (F19) (MLRA 149B) (TA6) (MLRA 144A, 145, 149B) Material (F21) Dark Surface (TF12) n in Remarks) problematic			
Restrictive Type: <u>c</u> Depth (inch	Layer (if observe ravel fill nes):3	ed):			-	Hydric soil present? <u>N</u>				
Remarks: Refusal	at 3 inches du	ue to s	olid gravel fill.							

Project/Site: Jefferson Interurban Trail Phase 3	City/County:	Ixonia/Jeffe	rson Sampling Date: June	e 9, 2022
Applicant/Owner: KL Engineering, Inc.	_	State: WI	Sampling Point:	22
Investigator(s): K. Sherfinski		Section, To	wnship, Range: S27, T8N, R	R16E
Landform (hillslope, terrace, etc.): toe of slope	Loc	cal relief (cor	ncave, convex, none): con	cave
Slope (%): 0-2 Lat.: Long.:		Datum:		
Soil Map Unit Name Wacousta silty clay loam (Wa)			NWI Classification: T3Kw	
Are climatic/hydrologic conditions of the site typical for this	time of the year	? Yes	(If no, explain in remarks)	
Are vegetation, soil, or hydrology	significantly	y disturbed?	Are "normal	
Are vegetation, soil, or hydrology	naturally p	roblematic?	circumstances" pres	sent? Yes
(If needed, explain any answers in remarks)				

SUMMARY OF FINDINGS

Hydrophytic vegetation present? Hydric soil present?	<u>Y</u> Y	Is the sampled area within a wetland?				
Indicators of wetland hydrology present?	Y	If yes, optional wetland site ID:	_			
Remarks: (Explain alternative procedures here or in a separate report.)						

Primary Indicators (minimum of one is required; check all that apply) required)			
Surface Water (A1) X Water-Stained Leaves (B9) Surface Soil Cracks (B6)			
X High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10)			
X Saturation (A3) Marl Deposits (B15) Moss Trim Lines (B16)			
X Water Marks (B1) Hydrogen Sulfide Odor (C1) Dry-Season Water Table (C2)			
X Sediment Deposits (B2) Oxidized Rhizospheres on Living Cravfish Burrows (C8)			
Drift Deposits (B3) Roots (C3) Saturation Visible on Aerial Imag	erv		
Algal Mat or Crust (B4) Presence of Reduced Iron (C4) (C9)	,		
Iron Deposits (B5) Recent Iron Reduction in Tilled Stunted or Stressed Plants (D1)			
Inundation Visible on Aerial Soils (C6) X Geomorphic Position (D2)			
Imagery (B7) Thin Muck Surface (C7) Shallow Aguitard (D3)			
Sparsely Vegetated Concave Other (Explain in Remarks) X EAC-Neutral Test (D5)			
Surface (B8) Microtopographic Relief (D4)	Microtopographic Relief (D4)		
Field Observations:			
Surface water present? Yes No X Depth (inches): Indicators of			
Water table present? Yes X No Depth (inches): 10 wetland			
Saturation present? Yes X No Depth (inches): At surface hydrology			
(includes capillary fringe) present? Y			
Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks:			

VEGETATION - Use scientific names of plants

GETATION - Use scientific names of plant	S			Sampling Point: 22
				50/20 Thresholds
Tree Stratum Plot Size (30ft radius)	Absolute	Dominant	Indicator	20% 50%
	% Cover	Species	Status	Tree Stratum 10 24
Acer negundo	30	<u>Y</u>	FAC	Sapling/Shrub Stratum 4 10
Acer saccharinum	15	<u>Y</u>	FACW	Herb Stratum 20 50
Morus alba	3	N	FACU	Woody Vine Stratum 0 0
			·	Device Test Westerland
				Dominance Test Worksneet
				Number of Dominant
				Species that are OBL,
				Total Number of Dominant
· · · · · · · · · · · · · · · · · · ·				Species Across all Strata: 5 (B)
		Total Cover		
				Percent of Dominant
Contine (Chruth	Abaaluta	Deminent	Indiantar	Species that are OBL,
Stratum Plot Size (30ft radius)		Dominant	Status	FACW, of FAC: 100.00% (A/E
Stratum	% Cover	Species	Status	
Rhamnus cathartica	10	Y	FAC	Prevalence Index Worksheet
Cornus racemosa	10	Y	FAC	Total % Cover of:
				OBL species $0 \times 1 = 0$
				FACW species <u>115</u> x 2 = <u>230</u>
				FAC species $50 \times 3 = 150$
				FACU species $3 \times 4 = 12$
				UPL species $0 \times 5 = 0$
				Column totals 168 (A) 392 (B)
				Prevalence Index = $B/A = 2.33$
	20 =	= Total Cover		
				Hydrophytic Vegetation Indicators:
Herb Stratum Plot Size (5ft radius)	Absolute	Dominant	Indicator	Rapid test for hydrophytic vegetation
	% Cover	Species	Status	X Dominance test is >50%
Phalaris arundinacea	80	<u>Y</u>	FACW	<u>X</u> Prevalence index is $\leq 3.0^{\circ}$
Diles numile	10	<u> </u>		Morphological adaptations" (provide
Pliea pumila	10	<u> </u>	FACW	supporting data in Remarks or on a
				Separate sheet)
·			·	
;				
				*Indicators of hydric soil and wetland hydrology must b
				present, unless disturbed of problematic
				Definitions of Vegetation Strata:
			·	
				Tree - Woody plants 3 in. (7.6 cm) or more in diameter
				breast height (DBH), regardless of height.
				Sanling/shrub - Woody plants less than 3 in DBH and
				greater than 3.28 ft (1 m) tall.
	100 =	Total Cover		5
				Herb - All herbaceous (non-woody) plants, regardless
Woody Vine	Absolute	Dominant	Indicator	size, and woody plants less than 3.28 ft tall.
Stratum Plot Size (30ft radius)	% Cover	Species	Status	Woody vines - All woody vines greater than 3.28 ft in
		·		height.
				l hudron hudio
			·	
		Total Causer		
	=	= Total Cover		present? Y
marks: (Include photo numbers here or on a separa	ate sheet)			
marks: (Include photo numbers here or on a separa Floodplain forest/emergent wetland. Dead /	ate sheet) Fraxinus pen	<i>nsylvanica</i> p	resent in tree	e stratum.

SOIL							S	ampling Point: 2	22
Profile Des	cription: (Descr	ibe to th	e depth needed	to docu	ment the	e indicato	or or confirm the absen	ce of indicators.)	
(Inches)	Color (moist)	%	Color (moist)	ox Fea %	tures Type*	1 00**	Texture	Remarks	
0-3	N2 5/	100		70	Турс	200	muck		
3-14	2.5Y 4/1	95	10YR 5/6	5	С	PL/M	siltv clav loam		
				-					
14-20	5Y 5/1	95	10YR 4/6	5	С	PL/M	silty clay		
-									
*Turnet C. C	an contration D	Daplati	on DM Deduce	d Matri		lovered e	r Cooted Cond Crains		
**Location	Oncentration, D	M=Mat	ion, Rivi=Reduce rix	d Matri	x, CS=C	overed c	or Coated Sand Grains		
Hydric Soi	I Indicators:	, 10-1014					Indicators for Pro	oblematic Hydric Soils:	
His	tosol (A1)		Poly	/value l	Below S	urface	X 2 cm Muck (A	10) (LRR K, L, MLRA 14 9	9B
His	tic Epipedon (A	2)	(S8) (LRR	R, MLR	A 149B)	Coast Prairie I	Redox (A16) (LRR K, L, F	र)
Bla	ck Histic (A3)		Thir	Dark	Surface	(S9)	5 cm Mucky P	eat or Peat (S3) (LRR K,	L, R)
Hyo	drogen Sulfide (A	44) 5)	(LR	RR, M	LRA 149	9B	Dark Surface ((S7) (LRR K, L	
	oleted Below Da	irk Surfa	ce (A11) (LR	R K. L))	ai (F I)	Thin Dark Sur	face (S9) (LRR K. L)	L)
Thi	ck Dark Surface	(A12)	Loa	my Gle	yed Mat	rix (F2)	Iron-Mangane	se Masses (F12) (LRR K	, L, R)
Sar	ndy Mucky Mine	ral (S1)	X Dep	leted N	/latrix (F:	3)	Piedmont Floo	odplain Soils (F19) (MLR A	A 149B)
Sar	ndy Gleyed Mati	ix (S4)	Rec	lox Dar	k Surfac	e (F6)	Mesic Spodic	(TA6) (MLRA 144A, 145,	149B)
Sar	10y Redox (55) nned Matrix (SF	;)		leted L	Park Suri	ace (F7)	Very Shallow I	aterial (F21) Dark Surface (TE12)	
Dar	k Surface (S7)	,, (LRR R,	MLRA			5 (1 0)	Other (Explain	in Remarks)	
149)B)							,	
*Indicators	of hydrophytic v	egetatio	n and wetland hy	/drolog	y must b	e presen	t, unless disturbed or p	problematic	
Restrictive	Layer (if observ	ed):					Hydric soil pros	ont? V	
Depth (inch	es):				-		nyune son prese		
-									
Remarks:									

Project/Site: Jefferson Interurban Trail Phase 3	City/County:	Ixonia/Jeffers	on Sampling Date: Jur	ne 9, 2022
Applicant/Owner: KL Engineering, Inc.		State: WI	Sampling Point	: 23
Investigator(s): K. Sherfinski		Section, Tow	nship, Range: S27, T8N, I	R16E
Landform (hillslope, terrace, etc.): toe of slope	Loc	cal relief (conc	ave, convex, none): cor	ncave
Slope (%): 0-2 Lat.: Long.	:	Datum:		
Soil Map Unit Name Wacousta silty clay loam (Wa)		N	IWI Classification: T3Kw	
Are climatic/hydrologic conditions of the site typical for this	s time of the year	? <u>Yes</u> (I	f no, explain in remarks)	
Are vegetation, soil, or hydrology	significantly	y disturbed?	Are "normal	
Are vegetation, soil, or hydrology	naturally pr	oblematic?	circumstances" pre	sent? Yes
(If needed, explain any answers in remarks)				

SUMMARY OF FINDINGS

Hydrophytic vegetation present? Hydric soil present?	<u>Y</u> Y	Is the sampled area within a wetland?
Indicators of wetland hydrology present?	Y	If yes, optional wetland site ID:
Remarks: (Explain alternative procedures	here or in a se	eparate report.)

		Secondary Indicators (minimum of two		
Primary Indicators (minimum of one is requ	required)			
Surface Water (A1)	Water-Stained Leaves (B9)	Surface Soil Cracks (B6)		
X High Water Table (A2)	Aquatic Fauna (B13)	X Drainage Patterns (B10)		
X Saturation (A3)	Marl Deposits (B15)	Moss Trim Lines (B16)		
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)		
X Sediment Deposits (B2)	Oxidized Rhizospheres on Living	Cravfish Burrows (C8)		
X Drift Deposits (B3)	Roots (C3)	Saturation Visible on Aerial Imagery		
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)	(C9)		
Iron Deposits (B5)	Recent Iron Reduction in Tilled	Stunted or Stressed Plants (D1)		
Inundation Visible on Aerial	Soils (C6)	X Geomorphic Position (D2)		
Imagery (B7)	Thin Muck Surface (C7)	Shallow Aguitard (D3)		
Sparsely Vegetated Concave	Other (Explain in Remarks)	X FAC-Neutral Test (D5)		
Surface (B8)		Microtopographic Relief (D4)		
Field Observations:				
Surface water present? Yes	No X Depth (inches):	Indicators of		
Water table present? Yes X	No Depth (inches): 10	wetland		
Saturation present? Yes X	No Depth (inches): At surfac	e hydrology		
(includes capillary fringe)		present? Y		
Describe recorded data (stream gauge, mo	nitoring well, aerial photos, previous inspec	ctions), if available:		
= = = = = = = = = = = = = = (= = = = =				
Remarks:				
Remarks: Adjacent to the Rock River.				
Remarks: Adjacent to the Rock River.				

VEGETATION - Use scientific names of plants

VEGETATION - Use scientific names of plant	s			Sampling Point: 23
Tree Stratum Plot Size(30ft radius) 1 Quercus macrocarpa	Absolute % Cover 15	Dominant Species Y	Indicator Status FACU	50/20 Thresholds 20% 50% Tree Stratum 5 13 Sapling/Shrub Stratum 3 8
2 Acer negundo 3 4	10	Y	FAC	Herb Stratum2359Woody Vine Stratum00
5 6 7 8				Dominance Test Worksheet Number of Dominant Species that are OBL, FACW, or FAC: 4
9 10		- Total Cover		Total Number of Dominant Species Across all Strata: <u>5</u> (B)
Sapling/Shrub Plot Size(30ft radius)	Absolute	Dominant	Indicator	Percent of Dominant Species that are OBL, FACW, or FAC: <u>80.00%</u> (A/B)
1 Cornus amomum	% Cover 15	Species Y	Status FACW	Prevalence Index Worksheet
2 3 4 5 6 7 8 9 10				Total % Cover of:OBL species $25 \times 1 = 25$ FACW species $65 \times 2 = 130$ FAC species $30 \times 3 = 90$ FACU species $27 \times 4 = 108$ UPL species $10 \times 5 = 50$ Column totals $157 \text{ (A)} = 403 \text{ (B)}$ Prevalence Index = B/A = 2.57
	15	= Total Cover		
Herb Stratum Plot Size (5ft radius) 1 Phalaris arundinacea 2 Carex crinita 3 Vitis riparia 4 Pilea pumila 5 Convolvulus arvensis 6 Alliaria petiolata 7 Arctium minus 8 9	Absolute % Cover 40 25 20 10 10 10 2	Dominant Species Y N N N N N N	Indicator Status FACW OBL FAC FACW UPL FACU FACU	Hydrophytic Vegetation Indicators: Rapid test for hydrophytic vegetation X Dominance test is >50% X Prevalence index is ≤3.0* Morphological adaptations* (provide supporting data in Remarks or on a separate sheet) Problematic hydrophytic vegetation* (explain) *Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic
10 11 12 13				Definitions of Vegetation Strata: Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Oppliant/shock Woody plants 4 in PDU and the plant in the plan
15	117	= Total Cover		greater than 3.28 ft (1 m) tall.
Woody Vine Plot Size(30ft radius) Stratum	Absolute % Cover	Dominant Species	Indicator Status	 Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height.
3				II had to
5	0	= Total Cover		Hydrophytic vegetation present? Y
Remarks: (Include photo numbers here or on a separa Floodplain forest/emergent wetland.	ite sheet)			•

SOIL								Sampling Point:	23
Profile Des	cription: (Descri	be to th	e depth needed	to docu	ment the	e indicato	or or confirm the abser	nce of indicators.)	
(Inches)	Color (moist)	%	Color (moist)	iox real %	Tvpe*	L oc**	Texture	Remar	'ks
0-8	2.5Y.3/1	95	10YR 4/6	5		PI /M	silty clay loam		
					<u> </u>	,			
8-20	2.5Y 4/2	90	10YR 5/8	10	С	М	siltv clav		
								_	
*Typo: C-C	Concontration D	-Donlot	ion PM-Poduce	d Matri	<u> </u>	overed c	r Costod Sand Grains		
**Location:	PL=Pore Lining	M=Mat	trix	u main	n, 00–0		of Coaled Sand Stains	2	
Hydric Soi	I Indicators:		-				Indicators for Pr	oblematic Hydric S	oils:
								-	
His	tosol (A1)		Pol	yvalue E	Below Su	urface	2 cm Muck (A	(LRR K, L, MLR	RA 149B
His Bla	tic Epipedon (A2	<u>2</u>)	(S8) (LRR n Dark 9	R, MLRA	A 149B)	5 cm Mucky F	Redox (A16) (LRR P Peat or Peat (S3) (LR	N, L, K) RRKIR)
	droaen Sulfide (A	4)	(LR	R R. M	LRA 149	(39) 9 B	Dark Surface	(S7) (LRR K, L	$(\mathbf{X}, \mathbf{X}, \mathbf{L}, \mathbf{X})$
Str	atified Layers (A	5)	Loa	my Mu	cky Mine	ral (F1)	Polyvalue Bel	low Surface (S8) (LR	RR K, L)
X De	pleted Below Da	rk Surfa	ice (A11)(LR	R K, L)	1		Thin Dark Su	rface (S9) (LRR K, L	_)
Thi	ck Dark Surface	(A12)	Loa	my Gle	yed Mat	rix (F2)	Iron-Mangane	ese Masses (F12) (L	RR K, L, R)
Sa	ndy Mucky Mine	ix (S4)		dox Dar	latrix (Fo k Surfac	5) 6 (F6)	Mesic Spodic	(TA6) (MI RA 144A	145, 149B)
Oa	ndy Redox (S5)	IX (04)		oleted D	ark Surf	ace (F7)	Red Parent M	Aterial (F21)	,,
Str	ipped Matrix (S6)	Rec	dox Dep	ressions	s (F8)	Very Shallow	Dark Surface (TF12))
Da	rk Surface (S7) (LRR R,	MLRA				Other (Explain	n in Remarks)	
14s	JB) of hydrophytic y	ogotatio	n and wotland b	vdrolog	v muet b		t unloss disturbed or	problematic	
muicators		eyelallu		yurolog	y must b	e preser	it, unless disturbed of	problematic	
Restrictive	Layer (if observe	ed):							
Type: Depth (inch	1es).				-		Hydric soll pres		
Dopti (inci					-				
Remarks:									

Project/Site: Jefferson Interurban Trail Phase 3	City/County:	Ixonia/Jeffe	erson Sampling Date: Ju	une 9, 2022
Applicant/Owner: KL Engineering, Inc.	_	State: WI	Sampling Poin	nt: 24
Investigator(s): K. Sherfinski		Section, To	wnship, Range: S26, T8N	, R16E
Landform (hillslope, terrace, etc.): toe of slope	Loc	cal relief (cor	ncave, convex, none): co	oncave
Slope (%): 0-2 Lat.: Long.:		Datum:		
Soil Map Unit Name Keowns silt Ioam (Kb)			NWI Classification: none	
Are climatic/hydrologic conditions of the site typical for this	time of the year	? Yes	(If no, explain in remarks)	1
Are vegetation, soil, or hydrology	significantly	/ disturbed?	Are "normal	
Are vegetation, soil, or hydrology	naturally pr	oblematic?	circumstances" p	resent? Yes
(If needed, explain any answers in remarks)				

SUMMARY OF FINDINGS

Hydrophytic vegetation present? Hydric soil present?	<u>Y</u> Y	Is the sampled area within a wetland?
Indicators of wetland hydrology present?	Y	If yes, optional wetland site ID:
Remarks: (Explain alternative procedures	here or in a se	eparate report.)

	Secondary Indicators (minimum of two
Primary Indicators (minimum of one is required; check all that apply)	required)
Surface Water (A1) Water-Stained Leaves (B9)	Surface Soil Cracks (B6)
X High Water Table (A2) Aquatic Fauna (B13)	Drainage Patterns (B10)
X Saturation (A3) Marl Deposits (B15)	Moss Trim Lines (B16)
Water Marks (B1) Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)
Sediment Deposits (B2) Oxidized Rhizospheres on Living	Crayfish Burrows (C8)
Drift Deposits (B3) Roots (C3)	Saturation Visible on Aerial Imagery
Algal Mat or Crust (B4) Presence of Reduced Iron (C4)	(C9)
Iron Deposits (B5)	Stunted or Stressed Plants (D1)
Inundation Visible on Aerial Soils (C6)	X Geomorphic Position (D2)
Imagery (B7) Thin Muck Surface (C7)	Shallow Aguitard (D3)
Sparsely Vegetated Concave Other (Explain in Remarks)	X FAC-Neutral Test (D5)
Surface (B8)	Microtopographic Relief (D4)
Field Observations:	
Surface water present? Yes No X Depth (inches):	Indicators of
Water table present? Yes X No Depth (inches): 1	wetland
Saturation present? Yes X No Depth (inches): At surfa	ace hydrology
(includes capillary fringe)	present? Y
Describe recorded data (stream gauge, monitoring well, aerial photos, previous insp	ections), if available:
Remarks:	
Wetland along creek.	
č	

otifi of nlant . .

Tree Stratum	Plot Size (30ft radius)	Absolute % Cover	Dominant Species	Indicator Status	50/20 Thresholds Tree Stratum Sapling/Shrub Stratum Herb Stratum Woody Viso Stratum	20% 50% 0 0 4 10 20 50
Tree Stratum	Plot Size (30ft radius)	Absolute % Cover	Species	Status	Tree Stratum Sapling/Shrub Stratum Herb Stratum Woody Vino Stratum	$\begin{array}{cccc} 20\% & 50\% \\ 0 & 0 \\ 4 & 10 \\ 20 & 50 \\ 0 & 0 \end{array}$
			70 Cover		Siaius	Sapling/Shrub Stratum Herb Stratum	4 10 20 50
						Herb Stratum	20 50
						Woody Vino Stratum	20 00
							0 0
							v v
						Dominance Test Workshe	et
						Number of Dominant	
						Species that are OBL,	
						FACW, or FAC:	<u> </u>
						I otal Number of Dominant	2 (D)
				- Total Cover		Species Across all Strata:	<u> </u>
						Percent of Dominant	
Conling/Shrub			Abcoluto	Dominant	Indicator	Species that are OBL,	
Stratum	Plot Size (30ft radius)	% Cover	Species	Status	FACW, OF FAC.	100.00% (A/E
			70 00001	Opecies		Description of the description	
Salix Interior			20	<u> </u>	FACW	Trevalence index workship	eet
						I otal % Cover of:	50
						OBL species 50 x 1EACW species 70 x 2	= 50
						FAC w species $\frac{70}{2}$ x 2	= 140
						FACU species 0 x 4	= 0
					·	UPL species 0×5	$= \frac{0}{0}$
						Column totals 120 (A)	190 (B)
						Prevalence Index = B/A =	1.58
			20	= Total Cover			
						Hydrophytic Vegetation Ir	ndicators:
Herb Stratum	Plot Size (5ft radius)	Absolute	Dominant	Indicator	Rapid test for hydrophy	tic vegetation
))	% Cover	Species	Status	X Dominance test is >50%	6
Phalaris arundinad	ea			<u> </u>	FACW	<u>X</u> Prevalence index is ≤ 3 .	0*
Carex lacustris			50	<u> </u>	OBL	Morphological adaptatio	ons [*] (provide
						supporting data in Rem	arks of off a
						Problematic hydrophytic	c vegetation*
						(explain)	vegetation
						*Indicators of hydric soil and wetla	and hydrology must h
						present, unless disturbed or probl	lematic
						Definitions of Vegetation	Strata:
						Tree - Woody plants 3 in (7.6 cm) or more in diamete
						breast height (DBH), regardless o	of height.
							C C
						Sapling/shrub - Woody plants les	ss than 3 in. DBH and
			100	- Total Covor		greater than 3.28 it (1 m) tail.	
			100			Herb - All herbaceous (non-wood	y) plants, regardless
Woody Vine			Absolute	Dominant	Indicator	size, and woody plants less than 3	3.28 ft tall.
Stratum	Plot Size (30ft radius)	% Cover	Species	Status	Woody vince All woody vince a	rootor than 2 28 ft in
				00000	Clarke	height.	
						5	
						Hydrophytic	
					·	vegetation	
				= Total Cover		present? Y	
							-
narks: (Include photo	numbers h	ere or on a sepa	arate sheet)				
narks: (Include photo Scrub-shrub/emerc	numbers h	ere or on a sepa nd.	arate sheet)				
narks: (Include photo Scrub-shrub/emerc	numbers h jent wetla	ere or on a sepa nd.	arate sheet)				
narks: (Include photo Scrub-shrub/emerc	numbers h jent wetla	ere or on a sepa nd.	arate sheet)				

SOIL							Si	ampling Point:	24
Profile Des	cription: (Descr	ibe to th	e depth needed	to docu	ment the	e indicato	or or confirm the absend	ce of indicators.)	
Depth	Matrix		Rec	lox Fea	tures		Texture	Remar	ks
(Inches)	Color (moist)	%	Color (moist)	%	Type*	Loc**			_
0-12	N 2.5/	100					muck		
12-20	10YR 3/1	95	10YR 3/6	5	С	PL	silty clay		
*Type: C=C	Concentration, D	=Deplet	on, RM=Reduce	ed Matri	x, CS=C	overed c	or Coated Sand Grains		
**Location:	PL=Pore Lining	, M=Mat	rix						
Hydric Soi	I Indicators:						Indicators for Pro	blematic Hydric S	oils:
1.8.			D.I				2 am Music (Ad		A 440D
HIS His	tosol (A1) tic Eninodon (A1	2)	P01 (S8	yvalue i) (I DD				0) (LKK K, L, WLK Reday (A16) (I RR K	.A 1495 (R)
X Bla	ck Histic (A3)	-)	(00	Dark	Surface	(S9)	5 cm Mucky Pe	eat or Peat (S3) (LR	R K. L. R)
Hyd	drogen Sulfide (/	44)	(LR	RR, M	LRA 149)B	Dark Surface (S7) (LRR K, L	, _, -,,
Stra	atified Layers (A	5)	`Loa	imy Mu	cky Mine	ral (F1)	Polyvalue Belo	w Surface (S8) (LR	(R K, L)
De	oleted Below Da	rk Surfa	ce (A11)(LR	R K, L))		Thin Dark Surfa	ace (S9) (LRR K, L	.)
Thi	ck Dark Surface	(A12)	Loa	ımy Gle	yed Mat	rix (F2)	Iron-Manganes	se Masses (F12) (Ll	RR K, L, R)
Sa	ndy Mucky Mine	ral (S1)	Dep	pleted N	Aatrix (F3	3)	Piedmont Floo	dplain Soils (F19) (I	MLRA 149B)
Sai	ndy Gleyed Matr	ix (S4)	Rec	dox Dar	k Surfac	e (F6)	Mesic Spodic (1A6) (MLRA 144A,	, 145, 149B)
Sai	ndy Redox (S5)	1	Dep	bieted L	ark Surf		Red Parent Ma	aterial (F21) Nork Surface (TE12)	\ \
	rk Surface (S7) (tox Deb	162210115	ы (го)	Other (Explain	in Remarks)	,
149	B)	,						in Romano,	
*Indicators	of hydrophytic v	egetatio	n and wetland h	ydrolog	y must b	e preser	it, unless disturbed or p	roblematic	
		-				•	•		
Restrictive	Layer (if observe	ed):							
Type:					_		Hydric soil prese	ent? Y	
Depth (Incr	ies):				-				
Remarks:									
Romanto.									
5									

Project/Site: Jefferson Interurban Trail Phase 3	City/County:	Ixonia/Jeffe	rson Sampling Date: June 9, 2022	
Applicant/Owner: KL Engineering, Inc.	_	State: WI	Sampling Point: 25	
Investigator(s): K. Sherfinski		Section, To	wnship, Range: S26, T8N, R16E	
Landform (hillslope, terrace, etc.): swale	Lo	cal relief (cor	ncave, convex, none): concave	
Slope (%): 0-3 Lat.: Long.	:	Datum:		
Soil Map Unit Name Matherton silt loam (MmA)			NWI Classification: none	
Are climatic/hydrologic conditions of the site typical for this	s time of the year	? Yes	(If no, explain in remarks)	
Are vegetation, soil, or hydrology	significantl	y disturbed?	Are "normal	
Are vegetation, soil, or hydrology	naturally p	roblematic?	circumstances" present? Yes	
(If needed, explain any answers in remarks)				

SUMMARY OF FINDINGS

Hydrophytic vegetation present? Hydric soil present?	<u>Y</u> Y	Is the sampled area within a wetland? Y					
Indicators of wetland hydrology present?	Y	If yes, optional wetland site ID:					
Remarks: (Explain alternative procedures here or in a separate report.)							

HYDROLOGY

Primany Indicators (minimum of one is requ	ired: check all that apply)	Secondary Indicators (minimum of two		
Fininary indicators (minimum of one is requ	Curface Cail Creates (DC)			
	water-Stained Leaves (B9)	Surface Soli Cracks (B6)		
High Water Table (A2)	Aquatic Fauna (B13)	Drainage Patterns (B10)		
Saturation (A3)	Marl Deposits (B15)	Moss Trim Lines (B16)		
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)		
Sediment Deposits (B2)	Oxidized Rhizospheres on Living	Crayfish Burrows (C8)		
Drift Deposits (B3)	Roots (C3)	Saturation Visible on Aerial Imagery		
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)	(C9)		
Iron Deposits (B5)	Recent Iron Reduction in Tilled	Stunted or Stressed Plants (D1)		
Inundation Visible on Aerial	Soils (C6)	X Geomorphic Position (D2)		
Imagery (B7)	Thin Muck Surface (C7)	Shallow Aquitard (D3)		
Sparsoly Vegetated Concave	Other (Explain in Remarks)	X EAC-Neutral Test (D5)		
Surface (B8)		Microtopographic Relief (D4)		
Field Observations:				
Surface water present? Yes	No X Depth (inches):	Indicators of		
Water table present? Yes X	No Depth (inches): 19	wetland		
Saturation present? Ves X	No Depth (inches): 17	bydrology		
(includes capillary fringe)		nrosont2		
(includes capillary minge)				
Describe recorded data (stream aquae, mo	pritoring well, periol photos, provious inspec	stions) if available:		
Describe recorded data (stream gauge, mo	nitoring weil, aeriai protos, previous inspec	sions), ii availabie.		
Demortes				
Remarks:				
Swale is separated from pond to the	e north by a berm.			

VEGETATION - Use scientific names of plants

VEGETATION - Use scientific names of plan	ts			Sampling Point: 25
Tree Stratum Plot Size (30ft radius)	Absolute	Dominant	Indicator	50/20 Thresholds 20% 50%
	% Cover	Species	Status	Tree Stratum 2 5
1 Acer negundo	10	Y	FAC	Sapling/Shrub Stratum 3 8
3				Woody Vine Stratum 0 0
4				
5				Dominance Test Worksheet
6				Number of Dominant
7	. <u> </u>			Species that are OBL,
o				Total Number of Dominant
10				Species Across all Strata: 4 (B)
	10	Total Cover		Percent of Dominant
				Species that are OBL,
Sapling/Shrub Plot Size (30ft radius)	Absolute	Dominant	Indicator	FACW, or FAC: <u>100.00%</u> (A/B)
Stratum	% Cover	Species	Status	
1 Rhamnus cathartica	10	Y	FAC	Prevalence Index Worksheet
2 Sambucus nigra	5	Y	FACW	Total % Cover of:
3	. <u> </u>			OBL species $0 \times 1 = 0$
4				FACW species $95 \times 2 = 190$
6				FACU species $10 \times 4 = 40$
7				UPL species $0 \times 5 = 0$
8				Column totals 130 (A) 305 (B)
9				Prevalence Index = $B/A = 2.35$
10		Tatal Cause		
	15	= Total Cover		Hydrophytic Vegetation Indicators:
	Absolute	Dominant	Indicator	Rapid test for hydrophytic vegetation
Herb Stratum Plot Size (5ft radius)	% Cover	Species	Status	X Dominance test is >50%
1 Phalaris arundinacea	90	Y	FACW	X Prevalence index is ≤3.0*
2 Cirsium arvense	10	N	FACU	Morphological adaptations* (provide
3 Equisetum arvense	5	<u> </u>	FAC	supporting data in Remarks or on a
5				Separate sneet)
6				(explain)
7				*Indicators of hydric soil and wetland hydrology must be
8				present, unless disturbed or problematic
9				
10				Definitions of Vegetation Strata:
12				Tree - Woody plants 3 in. (7.6 cm) or more in diameter a
13				breast height (DBH), regardless of height.
14				Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
	105	Total Cover		Herb - All herbaceous (non-woody) plants, regardless of
Woody Vine	Absolute	Dominant	Indicator	size, and woody plants less than 3.28 ft tall.
Stratum Plot Size (30ft radius)	% Cover	Species	Status	Woody vines - All woody vines greater than 3.28 ft in
1				height.
2				
3				
4				Hydrophytic
5		TILO		vegetation
		= Total Cover		present? Y
Remarks: (Include photo numbers here or on a separa	ate sheet)			L
Scrub-shrub/emergent wetland				

SOIL								Sampling Point:	25
						·			
Profile Des Depth	Depth Matrix Redox Features						or or confirm the abse	nce of indicators.)	
(Inches)	Color (moist)	%	Color (moist)	%	% Type* Loc**		Texture	Remarks	
0-14	10YR 3/1	95	10YR 3/6	5	С	PL	silty clay loam		
14-20	10YR 2/1	50					silty clay		
	10YR 3/1	48	10YR 4/6	2	С	PL			
*Tupo: C_C	Concentration D	Doplat	ion PM-Poduco	d Motri	× <u> </u>	overed e	r Coated Sand Crain		
**Location:	PL=Pore Lining.	M=Mat	rix	u Main	x, US=U	overed o	i Coaleu Sanu Grain	5	
Hydric Soi	I Indicators:						Indicators for P	roblematic Hydric Soils	5:
Hydric Soil Indicators: Indicators for Problematic Hydric Soils:							149B , R) K, L, R) K, L, R) RA 149B) 5, 149B)		

Project/Site: Jefferson Interurban Trail Phase 3	City/County:	Ixonia/Jeffe	rson Sampling Date: June 9, 2022
Applicant/Owner: KL Engineering, Inc.		State: WI	Sampling Point: 26
Investigator(s): K. Sherfinski		Section, To	wnship, Range: S26, T8N, R16E
Landform (hillslope, terrace, etc.): hillslope	Loc	cal relief (cor	ncave, convex, none): <u>convex</u>
Slope (%): 30 Lat.: Long	l.:	Datum:	
Soil Map Unit Name Matherton silt loam (MmA)			NWI Classification: none
Are climatic/hydrologic conditions of the site typical for th	is time of the year	? Yes	(If no, explain in remarks)
Are vegetation, soil, or hydrology	significantly	/ disturbed?	Are "normal
Are vegetation, soil, or hydrology	naturally pr	oblematic?	circumstances" present? Yes
(If needed, explain any answers in remarks)			

SUMMARY OF FINDINGS

Hydrophytic vegetation present? Hydric soil present?	Y N	Is the sampled area within a wetland?N
Indicators of wetland hydrology present?	N	If yes, optional wetland site ID:
Remarks: (Explain alternative procedures her	e or in a se	eparate report.)

HYDROLOGY

		Secondary Indicators (minimum of two	
Deine and Indiantana (minimum of an a is now	Secondary indicators (minimum or two		
Primary indicators (minimum of one is requ	requirea)		
Surrace Water (A1)	vvater-Stained Leaves (B9)	Surface Soll Cracks (B6)	
High Water Table (A2)	Aquatic Fauna (B13)	Drainage Patterns (B10)	
Saturation (A3)	Marl Deposits (B15)	Moss Trim Lines (B16)	
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)	
Sediment Deposits (B2)	Oxidized Rhizospheres on Living	Crayfish Burrows (C8)	
Drift Deposits (B3)	Roots (C3)	Saturation Visible on Aerial Imagery	
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)	(C9)	
Iron Deposits (B5)	Recent Iron Reduction in Tilled	Stunted or Stressed Plants (D1)	
Inundation Visible on Aerial	Soils (C6)	Geomorphic Position (D2)	
Imagery (B7)	Thin Muck Surface (C7)	Shallow Aquitard (D3)	
Sparsely Vegetated Concave	Other (Explain in Remarks)	FAC-Neutral Test (D5)	
Surface (B8)		Microtopographic Relief (D4)	
Field Observations:			
Surface water present? Yes	No X Depth (inches):	Indicators of	
Water table present? Yes	No X Depth (inches):	wetland	
Saturation present? Yes	No X Depth (inches):	hvdrology	
(includes capillary fringe)		present? N	
(
Describe recorded data (stream gauge, mo	nitoring well, aerial photos, previous inspe	ctions), if available:	
Remarks:			
Approximately 10 feet in elevation	higher than wotland		
	nigher man welland.		

htifi of nla . .

GETATION - Use scientific frames of plant	.5			
				50/20 Thresholds
Tree Stratum Plot Size (30ft radius)	Absolute	Dominant	Indicator	20% 50%
Thee Stratum Flot Size (Soft Tadius)	% Cover	Species	Status	Tree Stratum 0 0
				Sapling/Shrub Stratum 0 0
	·			Herb Stratum 20 49
				Weedy Vine Stratum
				Deminence Test Weshelset
				Dominance Test worksneet
				Number of Dominant
				Species that are OBL,
				FACW, or FAC: 4 (A)
				Total Number of Dominant
				Species Across all Strata: 7 (B)
		- Total Cover		
				Percent of Dominant
				Species that are OBL,
Sapling/Shrub	Absolute	Dominant	Indicator	FACW, or FAC: 57.14% (A/
Stratum	% Cover	Species	Status	
				Drovalance Index Werksheet
				Prevalence index worksneet
				Total % Cover of:
				OBL species 0 x 1 = 0
				FACW species $30 \times 2 = 60$
				EAC species $\frac{28}{28} \times 3 = \frac{84}{84}$
				$\frac{1}{20} \times 0 = \frac{04}{140}$
				FACU species $35 \times 4 = 140$
				UPL species $5 \times 5 = 25$
				Column totals <u>98</u> (A) <u>309</u> (B)
				Prevalence Index = B/A = 3.15
	0	= Total Cover		
				Hydrophytic Vegetation Indicators:
	A h a a h da	Deminant	la d'anten	Depid test for hydrophytic vegetation
Herb Stratum Plot Size (5ft radius)	Absolute	Dominant	Indicator	
	% Cover	Species	Status	X Dominance test is >50%
Phalaris arundinacea	15	Y	FACW	Prevalence index is ≤3.0*
Rhamnus cathartica	15	Y	FAC	Morphological adaptations* (provide
Poa pratensis	10	Y	FACU	supporting data in Remarks or on a
Circaea canadensis	10	Y	FACU	separate sheet)
Sambucus nigra	10	Y	FACW	Problematic hydrophytic vegetation*
Hydronhyllum virginionum	10	<u> </u>	FAC	(ovplain)
	10	<u> </u>		
Asparagus officinalis	10	<u> </u>	FACU	*Indicators of hydric soil and wetland hydrology must
Ribes americanum	5	N	FACW	present, unless disturbed or problematic
Rubus occidentalis	5	N	UPL	
Taraxacum officinale	5	N	FACU	Definitions of Vegetation Strata:
Equisetum arvense	3	N	FAC	
				Tree - Woody plants 3 in. (7.6 cm) or more in diameter
	······			breast height (DBH), regardless of height.
				Sapling/shrub - Woody plants less than 3 in. DBH and
				greater than 3.28 ft (1 m) tall.
	98 =	Total Cover		
				Herb - All herbaceous (non-woody) plants, regardles
Woody Vine	Absolute	Dominant	Indicator	size, and woody plants less than 3.28 ft tall.
Plot Size (30ft radius)		Species	Statua	
Stratum	% Cover	Species	Status	Woody vines - All woody vines greater than 3.28 ft in
				height.
				l hadron hadio
				Hydropnytic
				vegetation
	0 =	Total Cover		present? Y
marks: (Include photo numbers bere or on a sonar	ate sheet)			

US Army Corps of Engineers

SOIL								Sampling Point:	26
Profile Description: (Describe to the depth needed to document the indicator of						or or confirm the abso	ence of indicators.)		
Depth (Inches)	Color (moist)	%	Color (moist)	iox Feat %	ures Type*	L oc**	Texture	Remarks	
0-3	10YR 3/3	100		70	Турс	LUC	loam		
	101110,0	100					loan		
*Type: C=C	Concentration, D	=Depleti	ion, RM=Reduce	ed Matrix	x, CS=C	overed o	r Coated Sand Grain	าร	
**Location:	PL=Pore Lining,	M=Mat	rix						
Hydric Soi	I Indicators:						Indicators for F	Problematic Hydric Soil	s:
Histosol (A1) Polyvalue Below Surface Histosol (A1) (S8) (LRR R, MLRA 149B) Black Histic (A3) Thin Dark Surface (S9) Hydrogen Sulfide (A4) (LRR R, MLRA 149B) Stratified Layers (A5) Loamy Mucky Mineral (F1) Depleted Below Dark Surface (A12) Loamy Gleyed Matrix (F2) Sandy Mucky Mineral (S1) Depleted Matrix (F3) Sandy Redox (S5) Depleted Dark Surface (F7) Stripped Matrix (S6) Depleted Dark Surface (S7) (LRR R, MLRA 145, 14 Dark Surface (S7) (LRR R, MLRA 145, 14 Mesic Spodic (TA6) (MLRA 144A, 145, 14 Mesic Spodic (TA6) (MLRA 144A, 145, 14 Mesic Spodic (TA6) (MLRA 144A, 145, 14 Mesic Spodic (TA6) (MLRA 144A, 145, 14 Mesic Spodic (TA6) (MLRA 144A, 145, 14 Mesic Spodic (TA6) (MLRA 144A, 145, 14 Mesic Spodic (TA6) (MLRA 144A, 145, 14 Mesic Spodic (TA6) (MLRA 144A, 145, 14 Mesic Spodic (TA6) (MLRA 144A, 145, 14 Mesic Spodic (TA6) (MLRA 144A, 145, 14 Mesic Spodic (TA6) (MLRA 144A, 145, 14 Mesic Spodic (TA6) (MLRA 144A, 145, 14 Mesic Spodic (TA6) (MLRA 144A, 145, 14 Mesic Spodic (TA6) (MLRA 144A, 145, 14 Mesic Spodic (TA6) (MLRA 144A, 145, 14 Mesic Spodic (TA6) (MLRA 144A, 145, 14 Mesic Spodic (TA6) (MLRA 144A, 145, 14 Mesic S								149B L, R) K, L, R) K, L) R K, L, R) RA 149B) 45, 149B)	
Restrictive Type: <u>c</u> Depth (inch	Layer (if observe ravel fill nes): <u>3</u>	ed):			-		Hydric soil present? <u>N</u>		
Refusal	at 3 inches de	ue to s	olid gravel fill.						

Project/Site: Jefferson Interurban Trail Phase 3	City/County:	Ixonia/Jeffe	erson Sampling Date:	June 10, 2022	2
Applicant/Owner: KL Engineering, Inc.	_	State: WI	Sampling Po	oint: 27	
Investigator(s): K. Sherfinski		Section, To	wnship, Range: S35, T8	N, R16E	
Landform (hillslope, terrace, etc.): depression	Loc	al relief (con	ncave, convex, none):	concave	
Slope (%): 0-2 Lat.: Long.:		Datum:			
Soil Map Unit Name Mayville silt Ioam (MoB)			NWI Classification: non	e	
Are climatic/hydrologic conditions of the site typical for this	time of the year	? Yes	(If no, explain in remark	s)	
Are vegetation, soil, or hydrology	significantly	/ disturbed?	Are "normal		
Are vegetation , soil , or hydrology	naturally pr	oblematic?	circumstances"	present?	Yes
(If needed, explain any answers in remarks)					

SUMMARY OF FINDINGS

Hydrophytic vegetation present? Hydric soil present?	<u>Y</u> Y	Is the sampled area within a wetland? Y					
Indicators of wetland hydrology present?	Y	If yes, optional wetland site ID:					
Remarks: (Explain alternative procedures here or in a separate report.)							

		Secondary Indicators (minimum of two		
Primary Indicators (minimum of one is requ	required)			
Surface Water (A1)	Water-Stained Leaves (B9)	X Surface Soil Cracks (B6)		
High Water Table (A2)	Aquatic Fauna (B13)	Drainage Patterns (B10)		
Saturation (A3)	Marl Deposits (B15)	Moss Trim Lines (B16)		
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)		
Sediment Deposits (B2)	Oxidized Rhizospheres on Living	Crayfish Burrows (C8)		
Drift Deposits (B3)	Roots (C3)	Saturation Visible on Aerial Imagery		
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)	(C9)		
Iron Deposits (B5)	Recent Iron Reduction in Tilled	Stunted or Stressed Plants (D1)		
Inundation Visible on Aerial	Soils (C6)	X Geomorphic Position (D2)		
Imagery (B7)	Thin Muck Surface (C7)	Shallow Aquitard (D3)		
Sparsely Vegetated Concave	Other (Explain in Remarks)	X FAC-Neutral Test (D5)		
Surface (B8)		Microtopographic Relief (D4)		
Field Observations:				
Surface water present? Yes	No X Depth (inches):	Indicators of		
Water table present? Yes	No X Depth (inches):	wetland		
Saturation present? Yes X	No Depth (inches): At surface	e hvdrology		
(includes capillary fringe)		present? Y		
(
Describe recorded data (stream dauge, mo	nitoring well, aerial photos, previous inspec	ctions), if available:		
	······································			
Remarks:				
The depression is located alongsid	le the road where water gets trapped	in the valley		
	ie ne read where water gets trapped	in the valiey.		

of nl .+:f:

								21
			Abcoluto	Dominant	Indicator	50/20 Thresholds	200/	500/
ree Stratum	Plot Size (30ft radius)		Spacios	Status	Trop Stratum	20%	50%
			% Cover	Species	Status	Sopling/Shrub Stratum	0	0
						Sapling/Shrub Stratum	10	0
							19	47
						Woody Vine Stratum	0	0
						Dominance Test Workshe	et	
						Number of Dominant		
						Species that are OBL,		
						FACW, or FAC:	2	(A)
						Total Number of Dominant		
						Species Across all Strata:	2	(B)
			0	= Total Cover		Percent of Dominant		
						Species that are OBL,		
Sapling/Shrub	Plot Size (30ft radius)	Absolute	Dominant	Indicator	FACW, or FAC:	100.00%	<u>6</u> (A/E
Stratum	FI01 5126 (Solt Taulus)	% Cover	Species	Status			
						Prevalence Index Worksh	eet	
						Total % Cover of:		
						OBL species 33 x 1	= 33	
						FACW species 60 x 2	= 120)
						FAC species 0 x 3	$i = \frac{1}{0}$	
						FACIL species 0 x 4	$\frac{-}{-}$	—
							$\frac{-}{-}$	—
						$\begin{array}{c} \text{Olump totals} \\ \text{Olump totals} \\ \end{array} \begin{array}{c} \text{Olump totals} \\ \text{Olump totals} \\ \end{array} \begin{array}{c} \text{Olump totals} \\ \text{Olump totals} \\ \end{array} $	- 0	2 (B)
						$\frac{1}{2} = \frac{1}{2} $	1.65	<u>, (</u> ,
						Trevalence index = D/A =	1.00	—
				= Total Cover				
						Hydrophytic Vegetation I	ndicators:	
			Absolute	Dominant	Indicator	Rapid test for hydrophy	tic vegetati	ion
Herb Stratum	Plot Size (5ft radius)	% Cover	Species	Status	\overline{X} Dominance test is >50°	% %	
Phalaris arundi	nacea		60	Y	FACW	$\frac{1}{X}$ Prevalence index is <3	0*	
Carex lacustris	laooa			Y	OBI	Morphological adaptati	o ons* (nrovic	de
Typha x dauca				 N		supporting data in Rem	arks or on	a
i ypria x gladed					ODL	soparato shoot)		u
						Separate Sheet)	o vogototio	n *
						Problematic hydrophyti	: vegetation	n
						(explain)		
						*Indicators of hydric soil and wet	and hydrology	y must l
						present, unless disturbed or prob	ematic	
						Definitions of Vegetation	Strata:	
						Tree Weeds plants 2 in (7.6 am		diamata
						breast height (DBH) regardless of	of height	Jiamete
						2.040t 1.01g.nt (2.2.1), 1.0ga. 4.000 t		
						Sapling/shrub - Woody plants le	ss than 3 in. I	DBH an
						greater than 3.28 ft (1 m) tall.		
			93	= Total Cover		Herb - All berbaceous (non-wood	lv) plants req	ardless
				_		size, and woody plants less than	3.28 ft tall.	araicsa
Woody Vine	Plot Size (30ft radius)	Absolute	Dominant	Indicator			
Stratum	,	,	% Cover	Species	Status	Woody vines - All woody vines g	reater than 3.	.28 ft in
						height.		
						Hydrophytic		
						vegetation		
			0	= Total Cover		present? Y		
							-	
	oto numbers h	ere or on a sen	arate sheet)			1		
narks: (Include ph								
narks: (Include ph	and aw wate	and						
narks: (Include ph Disturbed wet m	eadow wetla	and.						

SOIL								Sampling Point: 27
Profile Description: (Describe to the depth needed to document the indicator of							or or confirm the abse	nce of indicators.)
(Inches)	Color (moist)	%	Color (moist)	lox Feat %	ures Type*	L oc**	Texture	Remarks
0-9	10YR 3/1	85	10YR 3/6	15		M	silty clay loam	
	101110,1	00	101110,0	10	Ű		only only fourth	
*Tupo: C_C	Concentration D	Doplat	ion PM-Poduce	d Motri	× 68-6	avered o	r Coated Sand Grain	
**Location:	PL=Pore Lining.	M=Mat	trix	uiviaili	x, CS=C	overeu c		5
Hydric Soi	I Indicators:						Indicators for P	roblematic Hydric Soils:
								·
His	tosol (A1)		Poly	yvalue E	Below Su	urface	2 cm Muck (A10) (LRR K, L, MLRA 149B
His Bla	itic Epipedon (A2	2)	(S8) (LRR) Dark (R, MLR/ Surface (A 149B)	5 cm Mucky	Peat or Peat (S3) (IRR K I R)
	droaen Sulfide (A	4)	(LR	R R. M	LRA 149	(3 <i>9)</i> 9 B	Dark Surface	e (S7) (LRR K. L
Stra	atified Layers (A	5)	`Loa	my Mu	cky Mine	eral (F1)	Polyvalue Be	Now Surface (S8) (LRR K, L)
De	pleted Below Dar	rk Surfa	ice (A11)(LR	R K, L)			Thin Dark Su	urface (S9) (LRR K, L)
Thi	ck Dark Surface	(A12)	Loa	my Gle	yed Mati	rix (F2)	Iron-Mangan	ese Masses (F12) (LRR K, L, R)
Sa	ndy Mucky Miller	ar (S1)		lox Dar	k Surfac	e (F6)	Mesic Spodi	c (TA6) (MLRA 144A, 145, 149B)
Sa	ndy Redox (S5)		Dep	pleted D	ark Surf	ace (F7)	Red Parent	Material (F21)
Str	ipped Matrix (S6))	Rec	lox Dep	ressions	s (F8)	Very Shallow	v Dark Surface (TF12)
Da	rk Surface (S7) (LRR R,	MLRA				Other (Expla	in in Remarks)
14: Indicators	JB) of hydrophytic yd	anotatio	n and wetland by	drolog	musth	o prosor	nt unless disturbed o	r problematic
maicators		sycialio		, along	y must b			problematic
_								
Restrictive	Layer (if observe	ed):					Hydric coil pro	cont2 V
Depth (inch	nes): 9				-		Hydric soli pre	sent? 1
Boptii (iiioi					-			
Remarks:								
Refusal	at 9 inches du	ue to s	olid gravel fill.	Three	attemp	ots.		

Project/Site: Jefferson Interurban Trail Phase 3	City/County:	Ixonia/Jeffers	son Sampling Date: June 10, 2	022
Applicant/Owner: KL Engineering, Inc.		State: WI	Sampling Point:	28
Investigator(s): K. Sherfinski		Section, Tow	nship, Range: S35, T8N, R16E	
Landform (hillslope, terrace, etc.): top of slight berm	Lo	cal relief (conc	ave, convex, none): <u>convex</u>	
Slope (%): 3-4 Lat.: Long	g.:	Datum:		
Soil Map Unit Name Mayville silt Ioam (MoB)		N	WI Classification: none	
Are climatic/hydrologic conditions of the site typical for the	nis time of the year	? <u>Yes</u> (If no, explain in remarks)	
Are vegetation, soil, or hydrology _	significantl	y disturbed?	Are "normal	
Are vegetation, soil, or hydrology	naturally p	roblematic?	circumstances" present?	Yes
(If needed, explain any answers in remarks)				

SUMMARY OF FINDINGS

Hydrophytic vegetation present? Hydric soil present?	<u></u>	Is the sampled area within a wetland?	<u> </u>				
Indicators of wetland hydrology present?	N	If yes, optional wetland site ID:					
Remarks: (Explain alternative procedures here or in a separate report.)							

HYDROLOGY

		Secondary Indicators (minimum of two	
Drimon, Indicators (minimum of and in the	required)		
Primary indicators (minimum of one is required)			
Surface Water (A1)	Water-Stained Leaves (B9)	Surface Soil Cracks (B6)	
High Water Table (A2)	Aquatic Fauna (B13)	Drainage Patterns (B10)	
Saturation (A3)	Marl Deposits (B15)	Moss Trim Lines (B16)	
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)	
Sediment Deposits (B2)	Oxidized Rhizospheres on Living	Crayfish Burrows (C8)	
Drift Deposits (B3)	Roots (C3)	Saturation Visible on Aerial Imagery	
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)	(C9)	
Iron Deposits (B5)	Recent Iron Reduction in Tilled	Stunted or Stressed Plants (D1)	
Inundation Visible on Aerial	Soils (C6)	Geomorphic Position (D2)	
Imagery (B7)	Thin Muck Surface (C7)	Shallow Aquitard (D3)	
Sparsely Vegetated Concave	Other (Explain in Remarks)	EAC-Neutral Test (D5)	
Surface (B8)		Microtopographic Relief (D4)	
Field Observations:			
Surface water present? Ves	No X Depth (inches):	Indicators of	
Water table present? Ves	No X Depth (inches):	wetland	
Seturation present?	No X Depth (inches):	bydrology	
(includes conillers frings)			
(includes capillary fringe)		present? N	
Describe recorded data (stream gauge, me	onitoring well, aerial photos, previous inspe	ctions), if available:	
Remarks:			
Approximately 12 inches in elevati	on higher than wetland.		
· · ·	-		

_ic ontifi of nlant

VEGETATION - Use scientific names of plan	ts			Sampling Point: 28
Trop Stratum Plot Size (30ft radius)	Absolute	Dominant	Indicator	50/20 Thresholds 20% 50%
Thee Stratum Plot Size (Son Tadius)	% Cover	Species	Status	Tree Stratum 0 0
1				Sapling/Shrub Stratum 0 0
2				Herb Stratum 24 61 Woody Vine Stratum 0 0
4				
5				Dominance Test Worksheet
6				Number of Dominant
7				Species that are OBL,
8	<u> </u>			FACW, of FAC: 1 (A)
10				Species Across all Strata: 2 (B)
	0 =	Total Cover		Percent of Dominant
				Species that are OBL,
Sapling/Shrub Plot Size(30ft radius) Stratum	Absolute % Cover	Dominant Species	Indicator Status	FACW, or FAC:(A/B)
1				Prevalence Index Worksheet
2				Total % Cover of:
3	·		<u> </u>	$\begin{array}{c c} OBL species \\ \hline & 0 \\ \hline & x \\ \hline \\ FACW species \\ \hline & 0 \\ \hline & x \\ \hline \\ & x \\ \hline \\ & z \\ \hline \\ & 0 \\ \hline \\ & z \\ \hline \\ & z \\ \hline \\ & 0 \\ \hline \\ & z \\ \hline \\ \\ & z \\ \hline \\ \hline \\ \\ \hline \\ \\ \hline \\ \hline \\ \\ \hline \\ \hline \\ \hline$
5				FAC species $40 \times 3 = 120$
6				FACU species 81 x 4 = 324
7				UPL species $0 \times 5 = 0$
8				Column totals 121 (A) 444 (B)
9				Prevalence Index = $B/A = 3.67$
	0 =	Total Cover		
				Hydrophytic Vegetation Indicators:
Herb Stratum Plot Size (5ft radius)	Absolute	Dominant	Indicator	Rapid test for hydrophytic vegetation
1 Doo protonoio	% Cover	Species	Status	Dominance test is >50%
2 Juncus tenuis	40	<u> </u>	FACU FAC	Prevalence index is ≥5.0 Morphological adaptations* (provide
3 Trifolium pratense	10	N	FACU	supporting data in Remarks or on a
4 Medicago lupulina	5	N	FACU	separate sheet)
5 Taraxacum officinale	3	N	FACU	Problematic hydrophytic vegetation*
6 Erigeron annuus	3	<u>N</u>	FACU	(explain)
7				*Indicators of hydric soil and wetland hydrology must be
8 q	·		<u> </u>	present, unless disturbed or problematic
10				Definitions of Vegetation Strata:
11				
12 13				breast height (DBH), regardless of height.
14 15				Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
	121 =	= Total Cover		Herb - All herbaceous (non-woody) plants, regardless of
Woody Vine	Absolute	Dominant	Indicator	size, and woody plants less than 3.28 ft tall.
Stratum Plot Size (30ft radius)	% Cover	Species	Status	Woody vines - All woody vines greater than 3.28 ft in height.
2				
3				
4				Hydrophytic
5		Total Cavar		vegetation
Remarks: (Include photo numbers here or on a separa	ate sheet)			
Old field.				

SOIL								Sampling Point:	28
Profile Des	cription: (Descri	be to th	e depth needed	to docu	ment the	e indicato	or or confirm the abse	nce of indicators.)	
(Inches)	Color (moist)	%	Color (moist)	iox real %	Type*	L oc**	Texture	Remar	ks
0-3	10YR 2/2	100		70			loam		
	1011(2,2	100					loan		
		_							
*Type: C=C	Concentration, D=	Deplet	ion, RM=Reduce	ed Matri	x, CS=C	overed c	or Coated Sand Grain	IS	
Hvdric Soi	Lindicators:	ivi=ivia					Indicators for P	roblematic Hydric S	oils:
	. maioatoroi								
His	tosol (A1)		Pol	yvalue B	Below Su	urface	2 cm Muck (A10) (LRR K, L, MLR	A 149B
His	tic Epipedon (A2	2)	(S8) (LRR	R, MLR	A 149B)	Coast Prairie	Redox (A16) (LRR P	(, L, R)
Bia	CK HISTIC (A3) drogen Sulfide (A	(4)	I NII (I P	P P M	Surface ((59) B	5 cm Mucky	Peat of Peat (53) (LF	(R K, L, R)
Stra	atified Lavers (A	5)		imv Mu	ckv Mine	eral (F1)	Polvvalue Be	elow Surface (S8) (LR	R K. L)
De	pleted Below Da	rk Surfa	ice (A11) (LR	R K, L)		,	Thin Dark Su	urface (S9) (LRR K, L	.)
Thi	ck Dark Surface	(A12)	Loa	imy Gle	yed Mat	rix (F2)	Iron-Mangan	iese Masses (F12) (L	RR K, L, R)
Sai	ndy Mucky Miner	al (S1)	Dep	pleted N	latrix (F3	3)	Piedmont Flo	codplain Soils (F19) (I	MLRA 149B)
Sai	ndy Gleyed Matri	x (54)		Jox Dari	k Suffac Jark Surf	e (F6) ace (F7)	Red Parent I	C (TAO) (IVILKA 144A , Material (E21)	, 145, 1496)
Otri	pped Matrix (S6))	Rec	dox Dep	ressions	6 (F8)	Very Shallow	v Dark Surface (TF12))
Da	rk Surface (S7) (LRR R,	MLRA			()	Other (Expla	in in Remarks)	
149)B)								
*Indicators	of hydrophytic ve	egetatio	on and wetland hy	ydrolog	y must b	e preser	it, unless disturbed of	r problematic	
Restrictive	Layer (if observe	ed):							
Type: g	ravel fill				-		Hydric soil pre	sent? N	
Depth (Incr	ies): 3				-				
Remarks:									
Refusal	at 3 inches du	ue to s	olid gravel fill.						
			U						

Project/Site: Jefferson Interurban Trail Phase 3	City/County:	Ixonia/Jeffe	erson Sampling Date: Jur	ne 10, 2022
Applicant/Owner: KL Engineering, Inc.	_	State: WI	Sampling Point	:: 29
Investigator(s): K. Sherfinski		Section, To	wnship, Range: S35, T8N,	R16E
Landform (hillslope, terrace, etc.): depression	Loc	cal relief (cor	ncave, convex, none): cor	ncave
Slope (%): 0-2 Lat.: Long.:		Datum:		
Soil Map Unit Name Mayville silt Ioam (MoB)			NWI Classification: none	
Are climatic/hydrologic conditions of the site typical for this	time of the year	? Yes	(If no, explain in remarks)	
Are vegetation, soil, or hydrology	significantly	/ disturbed?	Are "normal	
Are vegetation , soil , or hydrology	naturally pr	oblematic?	circumstances" pre	esent? Yes
(If needed, explain any answers in remarks)				

SUMMARY OF FINDINGS

Hydrophytic vegetation present? Hydric soil present?	Y Y	Is the sampled area within a wetland?	
Indicators of wetland hydrology present?	Y	If yes, optional wetland site ID:	-
Remarks: (Explain alternative procedures	here or in a se	eparate report.)	

			Secondary Indicators (minimum of two		
Primary Indicators (minimum of	one is requi	red; check all that apply)	required)		
Surface Water (A1)	Surface Soil Cracks (B6)				
X High Water Table (A2)		Aquatic Fauna (B13)	Drainage Patterns (B10)		
X Saturation (A3)		Marl Deposits (B15)	Moss Trim Lines (B16)		
Water Marks (B1)		Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)		
Sediment Deposits (B2)		Oxidized Rhizospheres on Living	Crayfish Burrows (C8)		
Drift Deposits (B3)		Roots (C3)	Saturation Visible on Aerial Imagery		
Algal Mat or Crust (B4)		Presence of Reduced Iron (C4)	(C9)		
Iron Deposits (B5)		Recent Iron Reduction in Tilled	Stunted or Stressed Plants (D1)		
Inundation Visible on Aerial		Soils (C6)	X Geomorphic Position (D2)		
Imagery (B7)		Thin Muck Surface (C7)	Shallow Aquitard (D3)		
Sparsely Vegetated Concave		Other (Explain in Remarks)	X FAC-Neutral Test (D5)		
Surface (B8)			Microtopographic Relief (D4)		
Field Observations:					
Surface water present? Y	es	No X Depth (inches):	Indicators of		
Water table present? Y	es X	No Depth (inches): 11	wetland		
Saturation present? Y	es X	No Depth (inches): 6	hydrology		
(includes capillary fringe)			present? Y		
Describe recorded data (stream	i gauge, moi	nitoring well, aerial photos, previous inspec	ctions), if available:		
Remarks:					
The depression is locate		the state of the s	r acto transso din the valley		
The apprecession is lecated	d in a rut/s	wale alongside the road where wate	r gets trapped in the valley.		
	d in a rut/s	wale alongside the road where wate	r gets trapped in the valley.		

of nl . .+:f:

Tree Stratum Plot Size (30ft radius) Absolute % Cover Dominant Species Indicator Status Tree Stratum 0 0 Image: Stratum Image: Stratum 0 0 0 0 Image: Stratum Image: Stratum 0 0 0 0 Image: Stratum Image: Stratum 0 0 0 0 Image: Stratum Image: Stratum 10 0 0 0 0 Image: Stratum Plot Size (30ft radius) Absolute % Cover Openies 10 0 10 10 10 10<	Absolute % Cover	Dominant Species	Indicator Status	50/20 Thresholds20%50%Tree Stratum00Sapling/Shrub Stratum00Herb Stratum1845Woody Vine Stratum00Dominance Test WorksheetNumber of Dominant5pecies that are OBL,FACW, or FAC:2(A)Total Number of Dominant2Species Across all Strata:2(B)Percent of Dominant5pecies that are OBL,FACW, or FAC:100.00%(A/
SeplingShrub Stratum 0 0 Image: SeplingShrub Stratum 100.00%		= Total Cover Dominant Species	Indicator Status	Sapling/Shrub Stratum00Herb Stratum1845Woody Vine Stratum00Dominance Test WorksheetNumber of DominantSpecies that are OBL,FACW, or FAC:2(A)Total Number of Dominant2(B)Percent of DominantSpecies that are OBL,FACW, or FAC:100.00%(A/
Image: Stratum 18 45 Image: Stratum 0 0 Image: Stratum		= Total Cover Dominant Species	Indicator Status	Herb Stratum1845Woody Vine Stratum00Dominance Test WorksheetNumber of DominantSpecies that are OBL,FACW, or FAC:2Total Number of DominantSpecies Across all Strata:2Percent of DominantSpecies that are OBL,FACW, or FAC:100.00%(A/
Woody Vine Stratum 0 Image: Stratum 0	0 Absolute % Cover	= Total Cover Dominant Species	Indicator Status	Woody Vine Stratum00Dominance Test WorksheetNumber of DominantSpecies that are OBL,FACW, or FAC:2Total Number of DominantSpecies Across all Strata:2Percent of DominantSpecies that are OBL,FACW, or FAC:100.00%(A/
Image: Second Stratum Plot Size (30h radius) Absolute % Cover Species Species At are OBL, FACW, or FAC 2 (A) Total Covor Total Covor Species At are OBL, FACW, or FAC 2 (A) Stratum Plot Size (30h radius) Absolute % Cover Dominant Species Ma are OBL, FACW, or FAC 100.00% (A) Fract Volume Cover of Stratum O = Total Cover Prevalence Index Worksheet Total % Cover of: OBL species 0 x 1 = 30 AP (A) O = Total Cover Prevalence Index Worksheet Total % Cover of: OBL species 0 x 1 = 30 AP (A) 0 (A) Interval = Interval Indicator FAC (A) 100.00% (A) Prevalence Index Worksheet Total % Cover of: OBL species 0 x 1 = 30 AP (A) 100.00% (A) Prevalence Index Isolution Masolution Species 5 x 2 = 0(B) 100.00% (A) Prevalence Index Isolution Y FACW Prevalence Index Isolution (Indicators: Rapid test to hydrophydic vegetation Solutions graphina isolution of orbid protophydic vegetation* (Career kernathis Total % Cover Prevalence Index Isolution of orbid protophydic vegetation* (Replant) Prevalence Index Isolution of orbid protophydic vegetation* (Replantis Isolutis Isolutis Isolution of orbid protophydic vegetation* (R	0 Absolute % Cover	= Total Cover Dominant Species	Indicator Status	Dominance Test WorksheetNumber of DominantSpecies that are OBL,FACW, or FAC:2 (A)Total Number of DominantSpecies Across all Strata:2 (B)Percent of DominantSpecies that are OBL,FACW, or FAC:100.00% (A/
Number of Dominant Species hat are OBL, FACW, or FAC: 2 (A) Total Cover Species Across all Strats: 2 (B) Stratum Piot Size (30ft radius) Absolute Dominant Species Strats: 2 (B) Stratum Piot Size (30ft radius) Absolute Dominant Species Stratur 100.00% (A) Stratum Piot Size (30ft radius) Absolute Dominant Species 100.00% (A) Prevalence Index Worksheet Total Cover Total Cover of: 100.00% (A) 100.00% (A) Prevalence Index as 0.3 X1 =	0 Absolute % Cover	= Total Cover Dominant Species	Indicator Status	Number of Dominant Species that are OBL, FACW, or FAC: 2 (A) Total Number of Dominant Species Across all Strata: 2 (B) Percent of Dominant Species that are OBL, FACW, or FAC: 100.00% (A/
Species marker of the second secon	0 Absolute % Cover	= Total Cover Dominant Species	Indicator Status	Species that are OBL, FACW, or FAC: 2 (A) Total Number of Dominant Species Across all Strata: 2 (B) Percent of Dominant Species that are OBL, FACW, or FAC: 100.00% (A/
Image: statum Plot Size (30ft radius) Absolute % Cover Dominant Species Species Status Percent of Dominant Species that are OBL, FACW, or FAC. Prevalence Index Worksheet Indicator Species 30 x 1 = 30 X 2 x 3 = 6 FAC species 30 x 1 = 30 FAC species 2 x 3 = 6 FAC species 2 x 3 = 6 FAC species 0 x 5 = 0 Column totals 8 gP (A) 170 (R) Prevalence Index Worksheet Image: Phalaris arundinacee Image: phalaris arundinacee Image: phalaris arundinacee Image: phalaris arundinacee Image: Phalaris arundinacee 0 Total Cover Y Pace on a separate sheet) Image: Phalaris arundinacee 0 N FACU Y Prevalence index sis 3.0° Image: Phalaris arundinacee 0 Y OBL Prevalence index is 3.0° Image: Phalaris arundinacee 0 Y OBL Prevalence index is 3.0° Image: Phalaris arundinacee 2 N FACU Y Prevalence index is 3.0° Image: Phalaris arundinacee 2 N FACU Y Prevalence index is 3.0° Image: Phalaris arundinacee 2 N FACU Y Prevalence index is 3.0° Image: Phalaris arundinacee 30 Y OBL Prevalence index is 3.0° Image: Phal	0 Absolute % Cover	= Total Cover Dominant Species	Indicator Status	Total Number of Dominant Species Across all Strata: <u>2</u> (B) Percent of Dominant Species that are OBL, FACW, or FAC: <u>100.00%</u> (A/
appling/Shrub Plot Size (30ft radius) Absolute Dominant Indicator Stratum Plot Size (30ft radius) Absolute Dominant Species that are OBL, FACW, or FAC: 100.00% (A) Stratum Prevalence Index Worksheet Total Cover Prevalence Index Worksheet Coll Species 10 x 4 = 30 FACW species 30 x 1 = 30 FACW species 30 x 1 = 30 FACW species 30 x 1 = 30 FACW species 30 x 1 = 30 FACW species 30 x 1 = 30 FACW species 30 x 1 = 30 FACW species 30 x 1 = 30 FACW species 30 x 1 = 30 FACW species 30 x 1 = 30 FACW species 30 x 1 = 30 FACW species 30 x 1 = 30 FACW species 30 x 1 = 30 FACW species 30 x 1 = 30 Cours locustris Species 10 x 4 = 0 Solidago gigantea Species 10 x 4 = 191 Prevalence Index = B/A = 191 191 Prevalence Index = B/A = 191 Species 10 x 4 = 30* Solidago gigantea Species 10 x 4 = 50* Solidago gigantea Species 10 x 4 = 10* Solidago gigantea Species 10 x 4 = 10* Species 10 x 4 = 2 N FACW Provalence Index Hardin Vactory Va	0 Absolute % Cover	= Total Cover Dominant Species	Indicator Status	Species Across all Strata: 2 (B) Percent of Dominant Species that are OBL, FACW, or FAC: 100.00% (A/
	0 Absolute % Cover	= Total Cover Dominant Species	Indicator Status	Percent of Dominant Species that are OBL, FACW, or FAC: <u>100.00%</u> (A/
Sapling/Shrub Plot Size (30ft radius) Absolute % Cover Dominant Species Indicator Status Species that are OBL, FACW, or FAC: 100.00% (Areas (Areas) Prevalence Index Worksheet Total % Cover of: OBL species 30 1 = 30 Problematic 0 = Total Cover FACW species 102.00% (Areas) Prevalence Index Edit 0 = Total Cover FACU species 10.4 ± 40 UPL species 0 = Total Cover FACU species 10.4 ± 40 UPL species 0 = Total Cover FACU species 10.7 4 ± 40 Prevalence Index is 53.0 ° Y OBL Prevalence Index is 53.0 ° Carex locustris 30 Y OBL Species Status Prevalence Index is 53.0 ° Y OBL Species Status Sonchus arrensis 10 N FACU Prevalence Index is 53.0 ° Sonchus arrensis 10 N FACU Prevalence Index is 53.0 ° Fraxinus pernsylvanica 2 N FACU Prevalence Index is 53.0 ° Wordy Vine 9 Total Cover Problogical adaptations' (provide	Absolute % Cover	Dominant Species	Indicator Status	Species that are OBL, FACW, or FAC:100.00% (A/
Stratum Plot Size (30ft radius) % Cover Species Status Prevalence Index Worksheet Total % Cover d: OBL species 30 X 1 = 30 PAC species 10 X 4 = 40 VL Species 10 X 5 = Phalaris arundinacea 40 Y FACW Prevalence index is 50% X Deminant Indicator Species 10 N FACU Phalaris arundinacea 40 Y Prevalence index is 53.0° Carex Acustris 30 Y OBL Morphological adaptations (provide speciation indicator significand acptations (provide speciation) Solidago gignifica 2 N FACU Prevalence index is 53.0° Rhamus cathartica 2 N FACU Prevalence index is 53.0° Rhamus cathartica 2 N FACU Species Status Woody Vine Prot Size (30ft radius) Absolute Ominant Indicator species Species Rhamus cathartica 2 N FACU Species Status Woody Vine Plot Siz	% Cover	Species	Status	(1
Image: space of the space	·			
Image: constraint of the second se	·			Prevalence Index Worksheet
Image: stratum Plot Size (5ft radius) Absolute Ominant Indicator Image: stratum Plot Size (5ft radius) Absolute Y OBL Image: stratum Plot Size (5ft radius) Absolute Y OBL Image: stratum Plot Size (5ft radius) Absolute Y OBL Image: stratum Plot Size (5ft radius) Absolute Y OBL Image: stratum Plot Size (5ft radius) N FACU Sonchus arvensis Sonchus arvensis 10 N FACU Supporting data in Remarks or on a separate sheet) Image: stratum Plot Size (30ft radius) N FACU Sonchus arvensis Image: stratum Plot Size (30ft radius) N FACU Separate sheet) Image: stratum Plot Size (30ft radius) N FACU Separate sheet Image: stratum Plot Size (30ft radius) N FACU Separate sheet Image: stratum Plot Size (30ft radius) Image: stratu Stratu Separate s	- <u> </u>			Total % Cover of:
Image: statum Plot Size (5ft radius) Absolute Dominant Indicator Phalaris arundinacea 40 Y FAC species Image: status Phalaris arundinacea 40 Y FAC species Image: status Sonchus arvensis 30 Y OBL Prevalence index = B/A =				OBL species $30 \times 1 = 30$
Image: Section of the section of th				FAC species $\frac{47}{2}$ x $3 = \frac{94}{6}$
Image: construct of the second status Image: construct of the second status Image: construct of the second status Image: construct of the second status Image: construct of the second status Image: construct of the second status Image: construct of the second status Image: construct of the second status Image: construct of the second status Image: construct of the second status Image: construct of the second status Image: construct of the second status Image: construct of the second status Image: construct of the second status Image: construct of the second status Image: construct of the second status Image: construct of the second status Image: construct of the second status Image: construct of the second status Image: construct of the second status Image: construct of the second status Image: construct of the second status Image: construct of the second status Image: construct of the second status Image: construct of the second status Image: construct of the second status Image: construct of the second status Image: construct of the second status Image: construct of the second status Image: construct of the second status Image: construct of the second status Image: construct of the second status Image: construct of the second status Image: conset the second status Image: con				FACU species $10 \times 4 = 40$
Column totals 89 (A) 170 (B) 0 = Total Cover Prevalence Index = B/A = 1.91 0 = Total Cover Hydrophytic Vegetation Indicators: Rapid test for hydrophytic vegetation % Cover Morphological adaptations* (provide supporting data in Remarks or on a Solidago gigantea 5 N FACW FACW N FACW FACW Provalence index is \$3.0* Fraxinus pennsylvanica 2 N FACW FACW Problematic hydrophytic vegetation* (explaint) Rhamnus cathartica 2 N FACW FACW Problematic hydrophytic vegetation* (explaint) Woody Vine Plot Size (30ft radius) 89 = Total Cover Tree - Woody plants iss in .7 & Em) or more in diamete treast height (DH), regardless of height. 89 = Total Cover Absolute % Cover Dominant % Cover Indicator Species 89 = Total Cover Morphological adaptations, regardless size, and woody plants less than 3.0. DBH ar greater than 3.28 ft (in) tall. Woody Vine Plot Size (30ft radius) Absolute % Cover Dominant % Cover Indicator Species 0 = Total Cover				UPL species $0 \times 5 = 0$
Image: status Image: status Prevalence Index = B/A = Image: status 0 = Total Cover Phalaris arundinacea 40 Y Garex lacustris 30 Y Sonchus arvensis 10 N FACU FACU Fraxinus pennsylvanica 2 Rhamnus cathartica 2 Image: status FACU Solidago gigantea 5 Fraxinus pennsylvanica 2 Rhamnus cathartica 2 Image: status FAC				Column totals 89 (A) 170 (B)
0 = Total Cover Herb Stratum Plot Size (5ft radius) Absolute % Cover Dominant Species Indicator Phalaris arundinacea 40 Y FACW Qarex lacustris 30 Y OBL Sonchus arvensis 10 N FACU Solidago giganiea 5 N FACW Prakinus pennsylvanica 2 N FACW Rhamus cathartica 2 N FACW Woody Vine Plot Size (30ft radius) Absolute Dominant % Cover Woody Vine Plot Size (30ft radius) Absolute Dominant % Cover Indicator Umody Vine Plot Size (30ft radius) Absolute Dominant % Cover Indicator 0 = Total Cover Hydrophytic vegetation strata: Tree - Woody plants less than 3.0. DBH ar greater than 3.28 ft (1 m) tall. Herb - All herbæceus (non-woody) plants, regardless of height. Sapingshrub - Woody vines greater than 3.28 ft tall. Woody Vine Plot Size (30ft radius) Absolute % Cover Dominant % Cover Indicator umody vines greater than 3.28 ft tall. Woody vines greater than 3.28 ft tall.				Prevalence Index = B/A = 1.91
Indicator Hydrophytic Vegetation Indicators: Rapid test for hydrophytic vegetation % Cover Phalaris arundinacea 40 Y FACW Orace lacustris 30 Y OBL Sonchus arvensis 10 N FACU Sonchus arvensis 10 N FACU Fraxinus pernsylvanica 2 N FACW Problematic hydrophytic vegetation* 2 N Rhamnus cathartica 2 N FAC Woody Vine 9 = Total Cover Woody Vine Plot Size (30ft radius) Absolute Dominant Indicator Stratum Plot Size (30ft radius) Absolute Dominant Indicator Stratum Plot Size (30ft radius) Absolute Dominant Indicator Stratum Plot Size (30ft radius) Absolute Dominant Indicator Stratum Plot Size (10ft radius) Absolute Dominant Indicator Stratum Plot Size (30ft radius) Absolute Dominant Indicator Stratum O = Total Cover Hydrophytic ve	0	- Total Cover		
Herb Stratum Plot Size (5ft radius) Absolute % Cover Dominant Species Indicator Status Rapid test for hydrophytic vegetation Phalaris arundinacea 40 Y FACW X Dominant Status X Dominance test is >50% Carex lacustris 30 Y OBL X Prevalence index is 3.0* Solidago gigantea 5 N FACW Y Problematic hydrophytic vegetation* Fraxinus pennsylvanica 2 N FACW Separate sheet! Yroblematic hydrophytic vegetation* Rhannus cathartica 2 N FAC Yroblematic hydrophytic vegetation* Separate sheet! "Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic Separate sheet! Yroblematic hydrophytic vegetation trata: "Indicators of Vgric soil and wetland hydrology must present, unless disturbed or problematic Definitions of Vegetation Strata: "Indicator 89 = Total Cover Tree - Woody plants less than 3.in. DBH at greater than 3.28 ft in Woody Vine Plot Size (30ft radius) Absolute Dominant Indicator Stratum 0 = Total Cover Hydrophytic vegetation Y				Hydrophytic Vegetation Indicators:
Photocol (withdust) % Cover (N House) Species (N House) Status (X Dominance test is >50% (X Prevalence index is \$3.0* Phalaris arundinacea 40 Y FACW (A Prevalence index is \$3.0* Sonchus arvensis 10 N FACU (Status) Y Prevalence index is \$3.0* Sonchus arvensis 10 N FACU (Status) Y Provide (Status) Y Provide (Status) Fraxinus pennsylvanica 2 N FACW (explain) Y Problematic hydrophytic vegetation* (explain) Problematic hydrophytic soil and wetland hydrology must present, unless disturbed or problematic Y Problematic hydrophytic vegetation Strata: Tree - Woody Vine Plot Size (30ft radius) Absolute Dominant Species Indicator Status (N - Woody plants less than 3.1. DBH ar greater than 3.28 ft tall. Woody Vine Plot Size (30ft radius) Absolute Dominant Species Indicator Status (N - Woody vines greater than 3.28 ft tall. Woody vine Plot Size (30ft radius) Absolute Dominant (N - Cover) Indicator (P - All herbaceous (non-woody) plants, regardless size, and woody vines greater than 3.28 ft in height. Moody vines - All woody vines greater than 3.28 ft in height. Hydrophytic vegetation present? Y Mode wet meadow wetland. Y Y	Absolute	Dominant	Indicator	Rapid test for hydrophytic vegetation
Phalaris arundinacea 40 Y FACW X Prevalence index is 53.0* Carex lacustris 30 Y OBL Morphological adaptations* (provide supporting data in Remarks or on a separate sheet) Solidago gigantea 5 N FACW Problematic hydrophytic vegetation* Fraxinus pennsylvanica 2 N FACW Problematic hydrophytic vegetation* Rhamnus cathartica 2 N FAC Problematic hydrophytic vegetation* Image: Solidago gigantea 2 N FACW Problematic hydrophytic vegetation* Image: Solidago gigantea 2 N FACW Problematic hydrophytic vegetation* Image: Solidago gigantea 2 N FACW Problematic hydrophytic vegetation* Image: Solidago gigantea 2 N FACW Problematic hydrophytic vegetation* Image: Solidago gigantea 2 N FACW Problematic hydrophytic vegetation* Image: Solidago gigantea 2 N FACW Problematic hydrophytic vegetation* Image: Solidago gigantea 2 N FACW Problematic hydrophytic vegetation* Image: Solidago g	% Cover	Species	Status	X Dominance test is >50%
Carex lacustris 30 Y OBL Morphological adaptations* (provide supporting data in Remarks or on a soparate sheet) Sonchus arvensis 10 N FACU supporting data in Remarks or on a soparate sheet) Fraxinus pennsylvanica 2 N FACW Problematic hydrophytic vegetation* (explain) Rhamnus cathartica 2 N FAC "(explain) "Indicator of hydric soil and wetland hydrology must present, unless disturbed or problematic "(explain) "Indicator of hydric soil and wetland hydrology must present, unless disturbed or problematic Image: Solid solut solution of the solution of	40	Y	FACW	X Prevalence index is ≤3.0*
Solidago gigantea 10 N FACU supporting data in Kemarks or on a suppartice data in Kemarks or on a supporting data in Kemarks or on a support data in Kemarks or on a supareter kemarks or on a support data in Kemarks	30	<u>Y</u>	OBL	Morphological adaptations* (provide
Solucido giganizad 3 N FACW Separate Sheet) Fraxinus cathartica 2 N FACW Problematic hydrophytic vegetation*	- 10	<u> </u>	FACU	supporting data in Remarks or on a
Rhamnus cathartica 2 N FAC Indicatory displayed vegetation (explain) "Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic		<u> </u>	FACW	Problematic hydrophytic vegetation*
Image: state of the state	2	<u> </u>	FAC	(explain)
Image: Stratum Image				*Indicators of hydric soil and wetland hydrology must
Image: Stratum Plot Size (30ft radius) Absolute % Cover Dominant % Cover Indicator Status Image: Stratum Plot Size (30ft radius) Absolute % Cover Dominant % Cover Indicator % Cover Image: Stratum Image: Stratum Image: Stratus Image: Stratus Image: Stratus Image: Stratum Image: Stratus Image: Stratus Image: Stratus Image: Stratus Image: Stratus Image: Stratus Image: Stratus Image: Stratus Image: Stratus Image: Stratus Image: Stratus Image: Stratus Image: Stratus Image: Stratus Image: Stratus Image: Stratus Image: Stratus Image: Stratus Image: Stratus Image: Stratus Image: Stratus Image: Stratus Image: Stratus Image: Stratus Image: Stratus Image: Stratus Image: Stratus Image: Stratus Image: Stratus Image: Stratus Image: Stratus Image: Stratus Image: Stratus Image: Stratus Image: Stratus Image: Stratus Image: Stratus Image: Stratus Image: Stratus Image: Stratus Image: Stratus Image: Stratus Image: Stratus I				present, unless disturbed or problematic
Tree - Woody plants 3 in. (7.6 cm) or more in diameter Image: Stratum 89 Plot Size (30ft radius) Absolute of cover Moody Vine Stratum Plot Size (30ft radius) Absolute of cover Dominant of cover Moody Vine Stratum Plot Size (30ft radius) Absolute of cover Dominant of cover Moody vines - All woody vines greater than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Moody vines - All woody vines greater than 3.28 ft in height. Moody vines - All woody vines greater than 3.28 ft in height. Moody vines - All woody vines greater than 3.28 ft in height. Moody vines - All woody vines greater than 3.28 ft in height. Moody vines - All woody vines greater than 3.28 ft in height. Moody vines - All woody vines greater than 3.28 ft in height. Moody vines - All woody vines greater than 3.28 ft in height. Moody vines - All woody vines greater than 3.28 ft in height. Moody vines - All woody vines greater than 3.28 ft in height. Moody vines - All woody vines greater than 3.28 ft in height. Moody vines - All woody vines greater than 3.28 ft in height. Moody vines - All woody vines greater than 3.28 ft in height. Moody vines - All woody vines greater than 3.28 ft in height.	·			Definitions of Vegetation Strata:
Image: stratum Image	<u> </u>			Tree - Woody plants 3 in. (7.6 cm) or more in diameter
Image: Sequence of the sector of the sect	•			breast height (DBH), regardless of height.
Image: Stratum Image				Sapling/shrub - Woody plants less than 3 in. DBH ar
Woody Vine Stratum Plot Size (30ft radius) Absolute % Cover Dominant Species Indicator Status Herb - All herbaceous (non-woody) plants, regardles: size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Woody vines - All woody vines greater than 3.28 ft in height. Woody vines - All woody vines greater than 3.28 ft in height. Imarks: (Include photo numbers here or on a separate sheet) Include photo numbers here or on a separate sheet) Y	89	= Total Cover		
Woody Vine Stratum Plot Size (30ft radius) Absolute % Cover Dominant Species Indicator Status Woody vines - All woody vines greater than 3.28 ft ir height.				Herb - All herbaceous (non-woody) plants, regardless size, and woody plants less than 3.28 ft tall.
Stratum % Cover Species Status Woody vines - All woody vines greater than 3.28 ft ir height.	Absolute	Dominant	Indicator	
Image:	% Cover	Species	Status	Woody vines - All woody vines greater than 3.28 ft in
	•			neight.
	·			
0 = Total Cover vegetation present? Y Marks: (Include photo numbers here or on a separate sheet) Disturbed wet meadow wetland.				Hydrophytic
0 _= Total Cover present?Y marks: (Include photo numbers here or on a separate sheet) Disturbed wet meadow wetland.				vegetation
marks: (Include photo numbers here or on a separate sheet) Disturbed wet meadow wetland.	0 =	= Total Cover		present? Y
Disturbed wet meadow wetland.	rate sheet)			<u> </u>
		0 Absolute % Cover 40 30 10 5 2 2 2 2 2 2 2 30 40 30 10 5 2 2 2 2 2 2 2 2 2 2 2 30 40 50 89 Absolute % Cover 0 0 0	0 = Total Cover Absolute Dominant % Cover Species 40 Y 30 Y 10 N 5 N 2 N 2 N 2 N 2 N 30 Y 10 N 5 N 2 N 2 N 30 Y 10 N 5 N 2 N 2 N 30 Total Cover Absolute Dominant % Cover Species 30 Total Cover 0 = Total Cover	0= Total CoverAbsolute % CoverDominant Species FACWIndicator Status FACW 40 YFACW OBL 30 YOBL FACU 10 NFACU FACW 2 NFACW FAC 2 NFAC 2 NFAC 2 NFAC 2 NFAC 2 NFAC 30 $=$ Total Cover 30 $=$ Total Cover 30 $=$ Total Cover 0 $=$ Total Cover

SOIL								Sampling Point:	29
Profile Des	cription: (Descri	be to th	e depth needed t	to docu	ment the	e indicato	or or confirm the abse	nce of indicators.)	
Uepth (Inches)	Matrix Redox Features				1 00**	Texture	Remark	ks	
0-8	10YR 3/2	70 95	10YR 3/6	5		PL/M	silty clay loam		
00	1011(0/2	00	1011(0/0	0	<u> </u>	1 2/101	Sitty oldy loann		
9-12	10YR 5/4	85	10YR 4/6	15	С	М	silty clay		
-				-	_				
*Tupo: C-C	Concontration D	-Doplat	on PM-Poduco	d Matri	× <u> </u>	overed c	r Coatod Sand Grain		
**Location:	PL=Pore Lining.	M=Mat	rix	u main	x, CO-C		i Coaleu Sanu Grain	5	
Hydric Soi	I Indicators:						Indicators for P	roblematic Hydric Se	oils:
His Bla Hyd Stra Del Thi Sar Sar Sar Sar Sar Sar 149 *Indicators	tic Epipedon (A2 ck Histic (A3) drogen Sulfide (A atified Layers (A3 bleted Below Da ck Dark Surface ndy Mucky Miner ndy Gleyed Matri ndy Redox (S5) pped Matrix (S6 ck Surface (S7) (B) of hydrophytic ve	2) 5) rk Surfa (A12) ral (S1) x (S4)) LRR R, egetatio	(S8) (K) (LR Loa Ce (A11) (LR Loa Dep X Rec Dep (Rec MLRA	(LRR Dark S R R, M my Mua R K, L) my Gle bleted M dox Darl bleted D dox Dep	R, MLR/ Surface (LRA 149 cky Mine yed Mati Matrix (F3 k Surfac Dark Surf pressions y must b	A 149B) (S9) BB (F1) (F2) (F2) (F2) (F2) (F3) (F3) (F8) (F8)	Coast Prairie 5 cm Mucky Dark Surface Polyvalue Be Thin Dark Su Iron-Mangan Piedmont Flo Mesic Spodio Red Parent M Very Shallow Other (Expla	 a Redox (A16) (LRR K Peat or Peat (S3) (LR b (S7) (LRR K, L b (S9) (LRR K, L c (S9) (LRR K, L c (S9) (S9) (LRR K, L c (TA6) (MLRA 144A, Material (F21) / Dark Surface (TF12) in in Remarks) problematic 	K, L, R) R K, L, R) R K, L) RR K, L, R) MLRA 149B) 145, 149B)
Restrictive Type: <u>g</u> Depth (inch	Layer (if observe ravel fill es): 12	ed):			-		Hydric soil pre	sent? Y	
Refusal	at 12 inches o	due to	solid gravel fill	. Three	e attem	pts.			

Project/Site: Jefferson Interurban Trail Phase 3	City/County:	Ixonia/Jefferson	Sampling Date: June 10,	2022
Applicant/Owner: KL Engineering, Inc.		State: WI	Sampling Point:	30
Investigator(s): K. Sherfinski		Section, Townshi	p, Range: S36, T8N, R16E	
Landform (hillslope, terrace, etc.): depression	Lo	cal relief (concave,	convex, none): concave	
Slope (%): 0-2 Lat.:	Long.:	Datum:		
Soil Map Unit Name Theresa silt Ioam (ThB)		NWI	Classification: none	
Are climatic/hydrologic conditions of the site typical	for this time of the year	? Yes (If no.	, explain in remarks)	
Are vegetation, soil, or hydrolog	gysignificantl	y disturbed?	Are "normal	
Are vegetation, soil, or hydrolog	gy naturally p	roblematic?	circumstances" present?	Yes
(If needed, explain any answers in remarks)				

SUMMARY OF FINDINGS

Hydrophytic vegetation present? Hydric soil present?	<u>Y</u> Y	Is the sampled area within a wetland? Y
Indicators of wetland hydrology present?	Y	If yes, optional wetland site ID:
Remarks: (Explain alternative procedures h	nere or in a se	eparate report.)

HYDROLOGY

		Secondary Indicators (minimum of two	
Primary Indicators (minimum of one is requ	ured: check all that apply)	Secondary indicators (minimum of two	
Curface Mater (A4)	Required)		
High Water Table (A2)	Aquatic Fauna (B13)	Drainage Patterns (B10)	
Saturation (A3)	Marl Deposits (B15)	Moss Trim Lines (B16)	
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)	
Sediment Deposits (B2)	Oxidized Rhizospheres on Living	Crayfish Burrows (C8)	
Drift Deposits (B3)	Roots (C3)	Saturation Visible on Aerial Imagery	
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)	(C9)	
Iron Deposits (B5)	Recent Iron Reduction in Tilled	Stunted or Stressed Plants (D1)	
Inundation Visible on Aerial	Soils (C6)	X Geomorphic Position (D2)	
Imagery (B7)	Thin Muck Surface (C7)	Shallow Aquitard (D3)	
Sparsely Vegetated Concave	Other (Explain in Remarks)	X FAC-Neutral Test (D5)	
Surface (B8)		Microtopographic Relief (D4)	
Field Observations:			
Surface water present? Yes	No X Depth (inches):	Indicators of	
Water table present? Yes	No X Depth (inches):	wetland	
Saturation present? Yes	No X Depth (inches):		
(includes capillary fringe)		present? Y	
(
Describe recorded data (stream dauge mo	phitoring well aerial photos previous inspe	ections) if available:	
Remarks:			
The depression is leasted in the m	iddle of the road		
The depression is located in the m			

stifi of nla . .

Sampling Point: 30
50/20 Thresholds 20% 50% Tree Stratum 0 0
Sapling/Shrub Stratum 0 0
Herb Stratum 24 61
Woody Vine Stratum 0 0
Dominance Test Worksheet
Number of Dominant
Species that are OBL,
FACW, or FAC: <u>3</u> (A)
I otal Number of Dominant
Descent of Deminent
Species that are OBI
FACW, or FAC: <u>100.00%</u> (A/E
Prevalence Index Worksheet
Total % Cover of:
OBL species $80 \times 1 = 80$
FACW species $20 \times 2 = 40$
FAC species $13 \times 3 = 43$ FACU species $6 \times 4 = 24$
UPL species $0 \times 5 = 0$
Column totals 121 (A) 189 (B)
Prevalence Index = $B/A = 1.56$
Hydrophytic Vegetation Indicators:
Rapid test for hydrophytic vegetation
X Dominance test is >50%
X Prevalence index is ≤3.0*
Morphological adaptations* (provide
supporting data in Remarks or on a separate sheet)
Problematic hydrophytic vegetation*
(explain)
*Indicators of hydric soil and wetland hydrology must b
present, unless disturbed or problematic
Definitions of Vegetation Strata:
Tree - Woody plants 3 in. (7.6 cm) or more in diameter breast height (DBH), regardless of height.
Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
Herb - All herbaceous (non-woody) plants, regardless
size, and woody plants less than 3.28 ft tall.
Woody vines - All woody vines greater than 3.28 ft in height.
Undrombutic
Hydrophytic
present? Y

SOIL							5	Sampling Point:	30		
Profile Des	cription: (Descri	be to th	e depth needed	to docu	ment the	e indicato	or or confirm the abser	nce of indicators.)			
Depth	pth Matrix Redox Features					1 + +	Texture	ks			
(inches)	Color (moist)	%	Color (moist)	%	Type"	LOC	1				
0-3	10YR 2/2	97	101R 3/6	3	U U	PL	loam				
2.14	10VD 2/2	05	10VD 2/C	45				are velly			
3-11	101R 3/2	80	101R 3/6	15	C	PL/IVI	Silly Clay	graveny			
*Type: C=C	Concentration, D=	-Deplet	ion, RM=Reduce	d Matri	x, CS=C	overed o	r Coated Sand Grains				
**Location:	PL=Pore Lining,	M=Mat	rix								
Hydric Soi	I Indicators:						Indicators for Pr	oblematic Hydric S	oils:		
His His Bla Hyd Str De Thi Sau Sau Sau Sau Sau Sau Sau Sau Sau Sau	tosol (A1) tic Epipedon (A2 ck Histic (A3) drogen Sulfide (A atified Layers (A4 pleted Below Dar ck Dark Surface ndy Mucky Miner ndy Gleyed Matri ndy Redox (S5) ipped Matrix (S6) rk Surface (S7) (DB) of hydrophytic ve Layer (if observe) k Surfa (A12) al (S1) x (S4) LRR R, egetatio	Poly (S8 Thir Loa ce (A11) (LR Loa Ce (A11) (LR Dep X Rec Dep Rec MLRA	yvalue f) (LRR n Dark S IR R, M Imy Mud Imy Gle Deleted M dox Dari Deleted D dox Dep	Below Si R, MLR Surface (LRA 14S cky Mine yed Mati Matrix (F3 k Surfac Dark Surf pressions	urface A 149B) (S9) B rral (F1) rix (F2) 3) e (F6) ace (F7) 5 (F8) e preser	2 cm Muck (A Coast Prairie 5 cm Mucky F Dark Surface Polyvalue Bel Thin Dark Sur Iron-Mangane Piedmont Floo Mesic Spodic Red Parent M Very Shallow Other (Explain at, unless disturbed or	10) (LRR K, L, MLR Redox (A16) (LRR K Peat or Peat (S3) (LR (S7) (LRR K, L ow Surface (S8) (LR face (S9) (LRR K, L ese Masses (F12) (Ll odplain Soils (F19) (I (TA6) (MLRA 144A, laterial (F21) Dark Surface (TF12) n in Remarks) problematic	(A 149B (, L, R) (R K, L, R) (R K, L, R) (R K, L, R) MLRA 149B) (145, 149B)		
Type: <u>c</u> Depth (inch	pravel fill nes):11				-		Hydric soil pres	ent? <u>Y</u>			
Refusal	at 11 inches o	due to	solid gravel fill	Ι.							

Project/Site: Jefferson Interurban Trail Phase 3	City/County:	Ixonia/Jefferson	Sampling Date: June 10,	2022
Applicant/Owner: KL Engineering, Inc.		State: WI	Sampling Point:	31
Investigator(s): K. Sherfinski		Section, Township	o, Range: S36, T8N, R16E	
Landform (hillslope, terrace, etc.): top of slight ber	m Lo	cal relief (concave,	convex, none): convex	
Slope (%): 3-4 Lat.:	Long.:	Datum:		
Soil Map Unit Name Theresa silt Ioam (ThB)		NWI C	Classification: none	
Are climatic/hydrologic conditions of the site typical	for this time of the year	? Yes (If no,	explain in remarks)	
Are vegetation, soil, or hydrolog	gysignificantl	y disturbed?	Are "normal	
Are vegetation, soil, or hydrolog	gy naturally p	roblematic?	circumstances" present?	Yes
(If needed, explain any answers in remarks)				

SUMMARY OF FINDINGS

Hydrophytic vegetation present? Hydric soil present?	<u>N</u>	Is the sampled area within a wetland?	<u> </u>		
Indicators of wetland hydrology present?	Ν	If yes, optional wetland site ID:			
Remarks: (Explain alternative procedures here or in a separate report.)					

Primary Indicators (minimum of one is requ Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	ired; check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots (C3) Presence of Reduced Iron (C4)	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)
Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8)	Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) Other (Explain in Remarks)	Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Microtopographic Relief (D4)
Field Observations: Surface water present? Yes Water table present? Yes Saturation present? Yes (includes capillary fringe)	NoXDepth (inches):NoXDepth (inches):NoXDepth (inches):	Indicators of wetland hydrology present? <u>N</u>
Describe recorded data (stream gauge, mo	nitoring well, aerial photos, previous inspe	ctions), if available:
Remarks: Approximately 12 inches in elevatio	on higher than wetland.	

VEGETATION - Use scientific names of plants

/EGETATION - Use scientific names of plar	nts			Sampling Point: 31
				50/20 Thresholds
Tree Stratum Plot Size (30ft radius)	Absolute	Dominant	Indicator	20% 50%
	% Cover	Species	Status	Tree Stratum 0 0
1				Sapling/Shrub Stratum 0 0
2				Herb Stratum 28 71
3				Woody Vine Stratum 0 0
4				
5				Dominance Test Worksheet
6				Number of Dominant
7				Species that are OBL,
8				FACW, or FAC: 0 (A)
9				Total Number of Dominant
0				Species Across all Strata: 1 (B)
	0	= Total Cover		
				Percent of Dominant
				Species that are OBL,
Sapling/Shrub Plot Size (30ft radius)	Absolute	Dominant	Indicator	FACW, or FAC: 0.00% (A/B)
Stratum	% Cover	Species	Status	
1				Prevalence Index Worksheet
۰ <u>ــــــــــــــــــــــــــــــــــــ</u>				
2				OBL Cover of:
3				OBL species $0 \times 1 = 0$
4				FACW species $0 \times 2 = 0$
5				FAC species $5 \times 3 = 15$
6				FACU species 137 x 4 = 548
7				UPL species $0 \times 5 = 0$
8				Column totals 142 (A) 563 (B)
9				Prevalence Index = $B/A = 3.96$
0	· · · · · · · · · · · · · · · · · · ·			
0		Total Cover		
				I hadron ha tio Monototiona ha dio stores
				Hydrophytic vegetation indicators:
Herb Stratum Plot Size (5ft radius)	Absolute	Dominant	Indicator	Rapid test for hydrophytic vegetation
	% Cover	Species	Status	Dominance test is >50%
1 Poa pratensis	85	Y	FACU	Prevalence index is ≤3.0*
2 Taraxacum officinale	10	N	FACU	Morphological adaptations* (provide
3 Plantago lanceolata	10	N	FACU	supporting data in Remarks or on a
4 Solidago altissima	10	N	FACU	separate sheet)
5 Trifolium pratense	5	N	FACU	Problematic hydrophytic vegetation*
6 Achillea millefolium	5	N	FACU	(evolain)
	5			
		N		*Indicators of hydric soil and wetland hydrology must be
8 Prileum pratense	3		FACU	present, unless disturbed or problematic
9 Medicago lupulina	3	<u>N</u>	FACU	
0 Cirsium arvense	3	N	FACU	Definitions of Vegetation Strata:
1 Vicia americana	2	<u>N</u>	FACU	Tree Meedy plants 2 in (7.6 cm) or more in diameter a
2 Ambrosia artemisiifolia	1	Ν	FACU	broast height (DBH), regardless of height
3				breast height (bbh), regardless of height.
4				Sapling/shrub - Woody plants less than 3 in. DBH and
5				greater than 3.28 ft (1 m) tall.
~	142	- Total Cover		ö
				Herb - All herbaceous (non-woody) plants, regardless of
Maadu Mina	Abaaluta	Deminant	Indiantar	size, and woody plants less than 3.28 ft tall.
Plot Size (30ft radius)	Absolute	Dominant	Indicator	
Stratum	% Cover	Species	Status	Woody vines - All woody vines greater than 3.28 ft in
1				height.
2				
3				
4				Hydrophytic
5				vogotation
°		TILO		
	0 =	= Total Cover		present? <u>N</u>
				<u> </u>
emarks: (Include photo numbers here or on a separation	rate sheet)			
Unmowed lawn in the center of the road.				

SOIL								Sampling Point: 31
Profile Des	cription: (Descri Matrix	be to th	e depth needed	to docu	ment the	indicato	or or confirm the abse	nce of indicators.)
(Inches)	Color (moist)	%	Color (moist)	%	Type*	Loc**	Texture	Remarks
0-5	10YR 3/2	100					loam	
				<u> </u>				
					-			
*Type: C=C	Concentration, D	Deplet	ion, RM=Reduce	d Matri	x, CS=C	overed c	r Coated Sand Grain	S
Hvdric Soi	I Indicators:	IVI=IVIAI	.11X				Indicators for P	roblematic Hvdric Soils:
,								,
His	tosol (A1)		Pol	yvalue F	Below Su	urface	2 cm Muck (/	A10) (LRR K, L, MLRA 149B
His Bla	tic Epipedon (A2 ck Histic (A3)	2)	(S8 Thi) (LRR n Dark {	R, MLRA Surface (A 149B) (S9)	5 cm Mucky	Peat or Peat (S3) (LRR K, L, R)
Hyd	drogen Sulfide (A	4)	(LR	R R, M	LRA 149	B	Dark Surface	e (S7) (LRR K, L
Str	atified Layers (A	5)	Loa	my Muo	cky Mine	ral (F1)	Polyvalue Be	low Surface (S8) (LRR K, L)
De	oleted Below Da	rk Surfa	.ce (A11)(LR	RK,L)) Wod Motr	iv (E2)	Thin Dark Su	Inface (S9) (LRR K, L)
Sa	ndv Muckv Miner	(A12) al (S1)	Loa	bleted N	/atrix (F3	IX (F∠) })	Piedmont Flo	podplain Soils (F12) (MLRA 149B)
Sa	ndy Gleyed Matri	x (S4)	Rec	lox Dar	k Surface	e (F6)	Mesic Spodio	c (TA6) (MLRA 144A, 145, 149B)
Sai	ndy Redox (S5)		Dep	pleted D	Dark Surfa	ace (F7)	Red Parent N	Material (F21)
Str	pped Matrix (S6)			lox Dep	pressions	i (F8)	Very Shallow	Dark Surface (TF12) in in Remarks)
149	B)		MERA					n in Kenarks)
*Indicators	of hydrophytic ve	egetatio	n and wetland hy	ydrology	y must be	e presen	t, unless disturbed or	problematic
Restrictive	Laver (if observe	ed):						
Туре: о	ravel fill	,			_		Hydric soil pres	sent? N
Depth (inch	ies): 5				_			
Remarks:								
Refusal	at 5 inches du	ue to s	olid gravel fill.					
			5					

Project/Site:	Jefferson Interurbar	n Trail Phase 3	City/County:	Ixonia/Jeffe	erson Sampling Dat	e: <u>June 10,</u> 2	2022
Applicant/Owner	: KL Engineering	, Inc.	_	State: WI	Sampling	Point:	32
Investigator(s): I	K. Sherfinski			Section, To	ownship, Range: S36, ⁻	T8N, R16E	
Landform (hillslo	pe, terrace, etc.):	hillslope	Lo	cal relief (co	ncave, convex, none):	convex	
Slope (%): 30	Lat.:	Long.	:	Datum	:		
Soil Map Unit Na	ame Lamartine silt lo	oam (LaB)			NWI Classification: no	one	
Are climatic/hydr	rologic conditions o	f the site typical for thi	s time of the year	? Yes	(If no, explain in rema	rks)	
Are vegetation	, soil	, or hydrology	significantl	y disturbed?	Are "normal		
Are vegetation	, soil	, or hydrology	naturally p	roblematic?	circumstance	s" present?	Yes
(If needed, expla	ain any answers in r	emarks)					

SUMMARY OF FINDINGS

Hydrophytic vegetation present?NHydric soil present?NIndicators of wetland hydrology present?N	Is the sampled area within a wetland? N
Remarks: (Explain alternative procedures here or in a	separate report.)

HYDROLOGY

		Secondary Indicators (minimum of two
		Secondary indicators (minimum or two
Primary indicators (minimum of one is requ	irea; cneck all that apply)	
Surface Water (A1)	Water-Stained Leaves (B9)	Surface Soil Cracks (B6)
High Water Table (A2)	Aquatic Fauna (B13)	Drainage Patterns (B10)
Saturation (A3)	Marl Deposits (B15)	Moss Trim Lines (B16)
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	Oxidized Rhizospheres on Living	Crayfish Burrows (C8)
Drift Deposits (B3)	Roots (C3)	Saturation Visible on Aerial Imagery
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)	(C9)
Iron Deposits (B5)	Recent Iron Reduction in Tilled	Stunted or Stressed Plants (D1)
Inundation Visible on Aerial	Soils (C6)	Geomorphic Position (D2)
Imagery (B7)	Thin Muck Surface (C7)	Shallow Aguitard (D3)
Sparsely Vegetated Concave	Other (Explain in Remarks)	FAC-Neutral Test (D5)
Surface (B8)		Microtopographic Relief (D4)
Field Observations:		
Surface water present? Yes	No X Depth (inches):	Indicators of
Water table present? Yes	No X Depth (inches):	
Saturation present? Ves	No X Depth (inches):	- bydrology
(includes capillary fringe)		nresent2N
(includes capillary minge)		
Describe recorded data (stream gauge ma	nitoring well, parial photos, provious inspor	ations) if available:
Describe recorded data (stream gauge, mo	filtoring well, aenai priotos, previous inspec	
Dementer		
Remarks:		
Approximately 6 feet in elevation hi	gher than wetland.	

ontifi of nlant

VEGETATION - Use scientific names of plan	ts			Sampling Point: 32
Troo Stratum Diat Siza (20ft radius)	Absolute	Dominant	Indicator	50/20 Thresholds 20% 50%
Thee Stratum Plot Size (Soft Tadius)	% Cover	Species	Status	Tree Stratum 0 0
1				Sapling/Shrub Stratum 0 0
2				Herb Stratum 30 75
3				woody vine Stratum 0 0
5				Dominance Test Worksheet
6				Number of Dominant
7				Species that are OBL,
8		. <u> </u>		FACW, or FAC: <u>1</u> (A)
9				Total Number of Dominant
10		Total Covar		Species Across all Strata: <u>3</u> (B)
				Percent of Dominant
Sonling/Shrub	Abcoluto	Dominant	Indicator	Species that are OBL,
Stratum Plot Size (30ft radius)	% Cover	Species	Status	
1				Prevalence Index Worksheet
2		. <u> </u>		Total % Cover of:
3				OBL species $0 \times 1 = 0$
4				FACW species $0 \times 2 = 0$
5				FAC species $35 \times 3 = 105$
7				1700 species = 100 x 4 = -400
8				Column totals 150 (A) 580 (B)
9				Prevalence Index = $B/A = 3.87$
10		·		
	0 :	Total Cover		
				Hydrophytic Vegetation Indicators:
Herb Stratum Plot Size (5ft radius)	Absolute	Dominant	Indicator	Rapid test for hydrophytic vegetation
1 Dec protonoio	% Cover	Species	Status	$_$ Dominance test is >50%
2 Trifolium pratense	30	<u> </u>	FACU	Morphological adaptations* (provide
3 Fauisetum arvense	30	<u> </u>	FAC	supporting data in Remarks or on a
4 Daucus carota	15	N	UPL	separate sheet)
5 Cirsium arvense	10	N	FACU	Problematic hydrophytic vegetation*
6 Vitis riparia	5	N	FAC	(explain)
7				*Indicators of hydric soil and wetland hydrology must be
8				present, unless disturbed or problematic
9		·		Definitions of Venetation Otrotoc
10				Definitions of vegetation Strata:
12				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
14				Sapling/shrub - Woody plants less than 3 in. DBH and
15	150	Total Cover		greater than 3.28 tt (1 m) tall.
		_ .		size, and woody plants less than 3.28 ft tall.
Woody Vine Plot Size (30ft radius)	Absolute	Dominant	Indicator	
Stratum	% Cover	Species	Status	Woody vines - All woody vines greater than 3.28 ft in
2		·		neight.
3				<u> </u>
4				Hydrophytic
5				vegetation
°		- Total Cover		nresent? N
Remarks: (Include photo numbers here or on a separa	ate sheet)			•
Old field.	,			

SOIL								Sampling Point: 32
Profile Des	cription: (Descri Matrix	be to th	e depth needed	to docul	ment the	indicato	or or confirm the abse	ince of indicators.)
(Inches)	Color (moist)	%	Color (moist)	%	Type*	Loc**	Texture	Remarks
0-8	10YR 3/3	100					silt loam	
				<u> </u>				
				<u> </u>				
				<u> </u>				
* Type: C=C	Concentration, D	Deplet= M_Mai	ion, RM=Reduce	d Matri	x, CS=C	overed c	r Coated Sand Grain	S
Hydric Soi	I Indicators:	IVI—IVIA					Indicators for P	roblematic Hydric Soils:
-								-
His	tosol (A1) tia Eninadan (A2		Poly	value E	Below Su	Inface	2 cm Muck (/	A10) (LRR K, L, MLRA 149B
Bla	ck Histic (A3)	.)	(38 Thir) Dark ל	Surface ((S9)	5 cm Mucky	Peat or Peat (S3) (LRR K, L, R)
Hyd	drogen Sulfide (A	4)	(LR	RR, M	LRA 149	B	Dark Surface	∍ (S7) (LRR K, L
Stra	atified Layers (A	5) de Surta	Loa	my Muo	cky Mine	ral (F1)	Polyvalue Be	Now Surface (S8) (LRR K, L)
De Thi	ck Dark Surface	rk Surra (A12)	.ce (A11 <u>;</u> (LK	mv Gle) ved Matr	ix (F2)	Iron-Mangan	inace (S9) (LRR K, L) iese Masses (F12) (LRR K, L, R)
Sa	ndy Mucky Miner	al (S1)	Dep	pleted N	Aatrix (F3	s) 3)	Piedmont Flo	podplain Soils (F19) (MLRA 149B)
Sai	ndy Gleyed Matri	x (S4)	Rec	lox Dar	k Surface	e (F6)	Mesic Spodie	c (TA6) (MLRA 144A, 145, 149B)
Sai	ndy Redox (S5)	,	Dep	leted D	Dark Surfa	ace (F7)	Red Parent N	vlaterial (F21) v Dark Surface (TE12)
Da	rk Surface (S7) (, LRR R,	MLRA	ion Dep	163310113	(10)	Other (Expla	in in Remarks)
149)B)						、 .	,
*Indicators	of hydrophytic v	egetatio	n and wetland hy	/drology	y must be	e presen	t, unless disturbed or	rproblematic
Restrictive	Layer (if observe	ed):						
Type: g	ravel fill les): 8				-		Hydric soll pre	sent? N
Bopti (inoi					-			
Remarks:								
Refusal	at 8 inches du	ue to s	olid gravel fill.					

Project/Site: Jefferson Interurban Trail Phase 3	City/County:	Ixonia/Jeffersor	Sampling Date: June 10,	2022
Applicant/Owner: KL Engineering, Inc.		State: WI	Sampling Point:	33
Investigator(s): K. Sherfinski		Section, Towns	hip, Range: S36, T8N, R16E	
Landform (hillslope, terrace, etc.): toe of slope	Loc	al relief (concav	e, convex, none): concave	
Slope (%): 0-3 Lat.: Long	g.:	Datum:		
Soil Map Unit Name Lamartine silt Ioam (LaB)		NW	I Classification: none	
Are climatic/hydrologic conditions of the site typical for the	his time of the year	? Yes (If r	no, explain in remarks)	
Are vegetation, soil, or hydrology	significantly	/ disturbed?	Are "normal	
Are vegetation, soil, or hydrology	naturally pr	oblematic?	circumstances" present?	Yes
(If needed, explain any answers in remarks)				

SUMMARY OF FINDINGS

Hydrophytic vegetation present? Hydric soil present?	<u>Y</u> Y	Is the sampled area within a wetland? Y			
Indicators of wetland hydrology present?	Y	If yes, optional wetland site ID:			
Remarks: (Explain alternative procedures here or in a separate report.)					

		Secondary indicators (minimum of two
Primary Indicators (minimum of one is requ	uired; check all that apply)	required)
Surface Water (A1)	Water-Stained Leaves (B9)	Surface Soil Cracks (B6)
X High Water Table (A2)	Aquatic Fauna (B13)	X Drainage Patterns (B10)
X Saturation (A3)	Marl Deposits (B15)	Moss Trim Lines (B16)
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	Oxidized Rhizospheres on Living	Crayfish Burrows (C8)
Drift Deposits (B3)	Roots (C3)	Saturation Visible on Aerial Imagery
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)	(C9)
Iron Deposits (B5)	Recent Iron Reduction in Tilled	Stunted or Stressed Plants (D1)
Inundation Visible on Aerial	Soils (C6)	X Geomorphic Position (D2)
Imagery (B7)	Thin Muck Surface (C7)	Shallow Aguitard (D3)
Sparsely Vegetated Concave	Other (Explain in Remarks)	X FAC-Neutral Test (D5)
Surface (B8)		Microtopographic Relief (D4)
Field Observations:		
Surface water present? Yes	No X Depth (inches):	Indicators of
Water table present? Yes X	No Depth (inches): 11	wetland
Water table present?YesXSaturation present?YesX	No Depth (inches): 11 No Depth (inches): 12	wetland hydrology
Water table present? Yes X Saturation present? Yes X (includes capillary fringe) Yes X	NoDepth (inches):11NoDepth (inches):12	wetland hydrology present? Y
Water table present? Yes X Saturation present? Yes X (includes capillary fringe) X	NoDepth (inches):11NoDepth (inches):12	wetland hydrology present? Y
Water table present? Yes X Saturation present? Yes X (includes capillary fringe) Describe recorded data (stream gauge, model)	No Depth (inches): 11 No Depth (inches): 12 onitoring well, aerial photos, previous inspe	ctions), if available:
Water table present? Yes X Saturation present? Yes X (includes capillary fringe) Describe recorded data (stream gauge, model)	No Depth (inches): 11 No Depth (inches): 12 onitoring well, aerial photos, previous inspendence	wetland hydrology present? Y ctions), if available:
Water table present? Yes X Saturation present? Yes X (includes capillary fringe) X	No Depth (inches): 11 No Depth (inches): 12 onitoring well, aerial photos, previous inspendence	wetland hydrology present? Y ctions), if available:
Water table present? Yes X Saturation present? Yes X (includes capillary fringe) X Describe recorded data (stream gauge, model)	No Depth (inches): 11 No Depth (inches): 12 onitoring well, aerial photos, previous inspe	wetland hydrology present? Y ctions), if available:
Water table present? Yes X Saturation present? Yes X (includes capillary fringe) Describe recorded data (stream gauge, model) Remarks: Remarks:	No Depth (inches): 11 No Depth (inches): 12 onitoring well, aerial photos, previous inspe	wetland hydrology present? Y ctions), if available:
Water table present? Yes X Saturation present? Yes X (includes capillary fringe) X Describe recorded data (stream gauge, model) Remarks: Creek is connected via culvert und	No Depth (inches): 11 No Depth (inches): 12 onitoring well, aerial photos, previous inspe ler utility access drive and is approxir	wetland hydrology present? Y ctions), if available: nately 5 feet wide by 10 feet deep with
Water table present? Yes X Saturation present? Yes X (includes capillary fringe) X Describe recorded data (stream gauge, model) Remarks: Creek is connected via culvert und a 3-inch depth baseflow.	No Depth (inches): 11 No Depth (inches): 12 onitoring well, aerial photos, previous inspe ler utility access drive and is approxir	wetland hydrology present? Y ctions), if available: nately 5 feet wide by 10 feet deep with
stifi of nla . .

EGETATION - Use scientific names of plan	ts			Sampling Point: 33
Tree Stratum Plot Size (30ft radius)	Absolute % Cover	Dominant Species	Indicator Status	50/20 Thresholds 20% 50% Tree Stratum 0 0
				Sapling/Shrub Stratum 0 0
				Herb Stratum 22 56 Woody Vine Stratum 0 0
				Dominance Test Worksheet
				Number of Dominant
				Species that are OBL, EACW or EAC : 1 (A)
				Total Number of Dominant
				Species Across all Strata: 1 (B)
	0	= Total Cover		Percent of Dominant
				Species that are OBL,
Sapling/Shrub Plot Size(30ft radius) Stratum	Absolute % Cover	Dominant Species	Indicator Status	FACW, or FAC: <u>100.00%</u> (A/B
				Tetal % Cover of:
				OBL species $2 \times 1 = 2$
				FACW species $100 \times 2 = 200$
				FAC species $10 \times 3 = 30$
				FACU species $0 \times 4 = 0$
				UPL species $0 \times 5 = 0$ Column totals 112 (A) 232 (B)
				Prevalence Index = $B/A = 2.07$
	0	= Total Cover		
	A la a luta	Deminent	la d'antan	Hydrophytic Vegetation Indicators:
Herb Stratum Plot Size (5ft radius)	% Cover	Species	Status	X Dominance test is >50%
Phalaris arundinacea	90	Y	FACW	$\frac{1}{X}$ Prevalence index is $\leq 3.0^*$
Impatiens capensis	10	N	FACW	Morphological adaptations* (provide
3 Urtica dioica	5	N	FAC	supporting data in Remarks or on a
Equisetum arvense	5	<u> </u>	FAC	separate sheet)
	Z	N		(explain)
				*Indicators of hydric soil and wetland hydrology must b
				present, unless disturbed or problematic
				Definitions of Vegetation Strata:
3				Tree - Woody plants 3 in. (7.6 cm) or more in diameter breast height (DBH), regardless of height.
				Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
	112	= Total Cover		Herb - All herbaceous (non-woody) plants, regardless
Woody Vine	Absolute	Dominant	Indicator	size, and woody plants less than 3.28 ft tall.
Stratum Plot Size (30ft radius)	% Cover	Species	Status	Woody vines - All woody vines greater than 3.28 ft in height.
,				Hydrophytic
5				vegetation
	0	= Total Cover		present? Y
marks: (Include photo numbers here or on a separ	ate sheet)			
Isturbed wet meadow wetland.				

SOIL							S	ampling Point: 33			
Profile Des	cription: (Descri	ibe to th	e depth needed t	to docu	ment the	indicato	or or confirm the absence	ce of indicators)			
Depth	th Matrix Redox Features				, maioate	Texture	Remarks				
(Inches)	Color (moist)	%	Color (moist)	%	Type*	Loc**					
0-0	10 f R 2/1	97	101K 3/0	3	C	PL	Silly Clay IOam				
6-14	10YR 4/1	97	10YR 4/6	3	С	М	silty clay				
44.00		05									
14-20	10YR 6/2	95	10YR 6/6	5	C	M	silty clay				
*Type: C=C	Concentration, D	Depleti	ion, RM=Reduce	d Matri	x, CS=C	overed o	r Coated Sand Grains				
Hydric Soi	I Indicators:	, 101–10140					Indicators for Pro	blematic Hydric Soils:			
**Location: PL=Pore Lining, M=Matrix Hydric Soil Indicators: — Histosol (A1) — Histosol (A1) — Histosol (A2) — Histosol (A3) — Histosol (A4) — Histosol (A2) — Histosol (A3) — Hydric Soils: — Histosol (A2) — Hydrid (A3) — Hydrid (A4) — Stratified Layers (A5) — Stratified Layers (A5) — Trick Dark Surface (A12) — Trick Dark Surface (A12) — Trick Dark Surface (A12) — Sandy Medxy Mineral (S1) — Sandy Redox (S5) — Sandy Redox (S5) — Dark Surface (S7) (LRR R, MLRA — Type: — Type:											

Project/Site: Je	efferson Interurbar	n Trail Phase 3	City/County:	Ixonia/Jeff	erson	Sampling Date:	June 10, 2	2022
Applicant/Owner:	KL Engineering	, Inc.	_	State: W	1	Sampling P	oint:	34
Investigator(s): K	. Sherfinski			Section, T	ownship,	Range: S36, T8	3N, R16E	
Landform (hillslop	be, terrace, etc.):	depression	Lo	cal relief (co	oncave, c	onvex, none):	concave	
Slope (%): 0-2	Lat.:	Long.	:	Datum	n:			
Soil Map Unit Nar	meWacousta silty	clay loam (Wa)			NWI CI	assification: nor	ne	
Are climatic/hydro	ologic conditions o	f the site typical for thi	s time of the year	r? Yes	(If no, e	explain in remark	(S)	
Are vegetation	, soil	, or hydrology	significantl	y disturbed?	?	Are "normal		
Are vegetation	, soil	, or hydrology	naturally p	roblematic?		circumstances"	present?	Yes
(If needed, explain	n any answers in r	emarks)						

SUMMARY OF FINDINGS

Hydrophytic vegetation present? Hydric soil present?	<u>Y</u> Y	Is the sampled area within a wetland?
Indicators of wetland hydrology present?	Y	If yes, optional wetland site ID:
Remarks: (Explain alternative procedures	here or in a se	eparate report.)

HYDROLOGY

		Secondary Indicators (minimum of two
Primary Indicators (minimum of one is requ	ired; check all that apply)	required)
Surface Water (A1)	Water-Stained Leaves (B9)	Surface Soil Cracks (B6)
High Water Table (A2)	Aquatic Fauna (B13)	X Drainage Patterns (B10)
Saturation (A3)	Marl Deposits (B15)	Moss Trim Lines (B16)
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	Oxidized Rhizospheres on Living	Crayfish Burrows (C8)
Drift Deposits (B3)	Roots (C3)	Saturation Visible on Aerial Imagery
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)	(C9)
Iron Deposits (B5)	Recent Iron Reduction in Tilled	Stunted or Stressed Plants (D1)
Inundation Visible on Aerial	Soils (C6)	X Geomorphic Position (D2)
Imagery (B7)	Thin Muck Surface (C7)	Shallow Aquitard (D3)
Sparsely Vegetated Concave	Other (Explain in Remarks)	X FAC-Neutral Test (D5)
Surface (B8)		Microtopographic Relief (D4)
Field Observations:		
Surface water present? Yes	No X Depth (inches):	Indicators of
Water table present? Yes X	No Depth (inches): 14	wetland
Saturation present? Yes X	No Depth (inches): At surface	e hydrology
(includes capillary fringe)		present? Y
Describe recorded data (stream gauge, mo	nitoring well, aerial photos, previous inspec	ctions), if available:
Remarks:		

EGETATION - Use scientific names	of plants				Sampling Point: 34
Tree Stratum Plot Size (30ft rad	tius)	Absolute	Dominant	Indicator	50/20 Thresholds 20% 50%
	105)	% Cover	Species	Status	Tree Stratum 0 0
					Sapling/Shrub Stratum 0 0
					Herb Stratum 27 67
					Woody Vine Stratum 0 0
					Dominance Test Worksheet
,					Species that are OBI
					EACW or EAC: $1 (A)$
, 					Total Number of Dominant
					Species Across all Strata:(B)
	-	0	= Total Cover		Percent of Dominant
					Species that are OBL,
Sapling/Shrub Plot Size (30ft rac Stratum	dius)	Absolute % Cover	Dominant Species	Indicator Status	FACW, or FAC: <u>100.00%</u> (A/E
					Prevalence Index Worksheet
					Total % Cover of:
					OBL species $124 \times 1 = 124$
·					FACW species $10 \times 2 = 20$
					FAC species $0 \times 3 = 0$
,					FACU species $0 \times 4 = 0$
					$\begin{array}{c} \text{OPL species} 0 x \text{ 5} = 0 \\ \text{Column totals} 124 (A) 144 (P) \end{array}$
					1000000000000000000000000000000000000
,					
	-	0	= Total Cover		Hydrophytic Vegetation Indicators:
	• • •	Absolute	Dominant	Indicator	Rapid test for hydrophytic vegetation
Herb Stratum Plot Size (5ft rad	ius)	% Cover	Species	Status	X Dominance test is >50%
Carex stricta		95	Y	OBL	X Prevalence index is ≤3.0*
2 Typha x glauca		10	<u>N</u>	OBL	Morphological adaptations* (provide
3 Carex stipata		5	N	OBL	supporting data in Remarks or on a
4 Carex vulpinoidea		5	<u>N</u>	OBL	separate sheet)
5 Lythrum salicaria		5	<u> </u>	OBL	Problematic hydrophytic vegetation*
Impatiens capensis		5	<u> </u>		(explain)
Phalans arunumacea		3 2	<u> </u>		*Indicators of hydric soil and wetland hydrology must b
Scirnus pendulus		2	N		present, unless disturbed of problematic
Eupatorium perfoliatum		2	<u> </u>	FACW	Definitions of Vegetation Strata:
 					Tree - Woody plants 3 in. (7.6 cm) or more in diameter
3					breast height (DBH), regardless of height.
5					Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
		134	= Total Cover		Herb - All herbaceous (non-woody) plants, regardless
Woody Vine		Absoluto	Dominant	Indicator	size, and woody plants less than 3.28 ft tall.
Stratum Plot Size (30ft rad	dius)	% Cover	Species	Status	
			Opecies	Olalus	Woody vines - All woody vines greater than 3.28 ft in height
2					
3					
					Hydrophytic
					vegetation
		0	= Total Cover		present? Y
marks: (Include photo numbers here or or	n a separate	e sheet)			
Sedge meadow wetland.					

SOIL							S	ampling Point:	34
Profile Des	cription: (Descri	be to th	e depth needed	to docu	ment the	e indicato	or or confirm the absen	ce of indicators.)	
(Inches)	Color (moist)	%	Color (moist)	юх геа %	Type*	ا مد**	Texture	Remar	ks
0-14	10YR 2/1	95	10YR 3/6	5			silt loam		
014	1011(2/1	55	10110.0/0	5			Sittibarri		
14-22	N2 5/	95	10YR 3/6	5	C	М	muck		
17 22	112.0/	00	10111 0/0	0	Ŭ	101	maok		
*Type: C=C	Concentration, D	=Deplet	ion, RM=Reduce	ed Matri	x, CS=C	overed o	or Coated Sand Grains		
**Location:	PL=Pore Lining,	M=Mat	trix						
Hydric Soi	I Indicators:						Indicators for Pro	blematic Hydric S	oils:
His His Bla Hyu Str De Thi Sau Sau Sau Sau Sau Sau Sau Sau Sau Sau	tosol (A1) tic Epipedon (A2 ck Histic (A3) drogen Sulfide (A atified Layers (A pleted Below Da ck Dark Surface ndy Mucky Miner ndy Gleyed Matri ndy Redox (S5) ipped Matrix (S6 rk Surface (S7) (9B) of hydrophytic ve Layer (if observe	2) 5) rk Surfa (A12) ral (S1) ix (S4)) LRR R, egetatio	Pol (S8 Thin Loa ice (A11) (LR Dep X Rec MLRA mlRA	yvalue I) (LRR n Dark : R R, M amy Mu R K, L) amy Gle bleted N dox Dar bleted D dox Dep ydrolog	Below St R, MLR Surface LRA 14 cky Mine yed Mat Matrix (F3 k Surfac Dark Surfac Dark Surfac Dark Surfac -	urface A 149B) (S9) B aral (F1) rix (F2) 3) e (F6) face (F7) s (F8) e preser	2 cm Muck (A Coast Prairie F 5 cm Mucky P Dark Surface (Polyvalue Belo Thin Dark Surf Iron-Manganes Piedmont Floo Mesic Spodic Red Parent Ma Very Shallow I Other (Explain at, unless disturbed or p	10) (LRR K, L, MLR Redox (A16) (LRR F eat or Peat (S3) (LF (S7) (LRR K, L ow Surface (S8) (LR face (S9) (LRR K, L se Masses (F12) (L dplain Soils (F19) (I (TA6) (MLRA 144A aterial (F21) Dark Surface (TF12) in Remarks) problematic	RA 149B (, L, R) RR K, L, R) (RR K, L, R) RR K, L, R) MLRA 149B) (145, 149B)
Remarks:									

Project/Site: Jefferson Interurban T	rail Phase 3	City/County:	Ixonia/Jeffe	erson Sampling Date:	June 10, 2	022
Applicant/Owner: KL Engineering, In	C.	_	State: WI	Sampling F	oint:	35
Investigator(s): K. Sherfinski			Section, To	ownship, Range: S36, T8	3N, R16E	
Landform (hillslope, terrace, etc.): hill	Islope	Loc	al relief (co	ncave, convex, none):	convex	
Slope (%): 30 Lat.:	Long.:		Datum	:		
Soil Map Unit Name Wacousta silty cla	y loam (Wa)			NWI Classification: nor	ne	
Are climatic/hydrologic conditions of th	e site typical for this	s time of the year	? Yes	(If no, explain in remark	(S)	
Are vegetation, soil	, or hydrology	significantly	/ disturbed?	Are "normal		
Are vegetation , soil	, or hydrology	naturally pr	oblematic?	circumstances"	present?	Yes
(If needed, explain any answers in rem	narks)					

SUMMARY OF FINDINGS

Hydrophytic vegetation present? Hydric soil present?	N N	Is the sampled area within a wetland? N
Indicators of wetland hydrology present?	<u>N</u>	If yes, optional wetland site ID:
Remarks: (Explain alternative procedures h	ere or in a se	eparate report.)

HYDROLOGY

		Secondary Indicators (minimum of two	
Deine and Indiantees (minimum of and is a see	in the share of the standard	Secondary indicators (minimum of two	
Primary indicators (minimum of one is requ	required)		
Surface Water (A1)	Surface Soil Cracks (B6)		
High Water Table (A2)	Aquatic Fauna (B13)	Drainage Patterns (B10)	
Saturation (A3)	Marl Deposits (B15)	Moss Trim Lines (B16)	
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)	
Sediment Deposits (B2)	Oxidized Rhizospheres on Living	Crayfish Burrows (C8)	
Drift Deposits (B3)	Roots (C3)	Saturation Visible on Aerial Imagery	
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)	(C9)	
Iron Deposits (B5)	Recent Iron Reduction in Tilled	Stunted or Stressed Plants (D1)	
Inundation Visible on Aerial	Soils (C6)	Geomorphic Position (D2)	
Imagery (B7)	Thin Muck Surface (C7)	Shallow Aguitard (D3)	
Sparsely Vegetated Concave	Other (Explain in Remarks)	FAC-Neutral Test (D5)	
Surface (B8)		Microtopographic Relief (D4)	
Field Observations:			
Surface water present? Yes	No X Depth (inches):	Indicators of	
Water table present? Yes	No X Depth (inches):	wetland	
Saturation present? Yes	No X Depth (inches):	hydrology	
(includes capillary fringe)		nresent?	
(includes capillary minge)			
Describe recorded data (stream gauge, me	nitoring wall parial photos, provious inspo	ctions) if available:	
Describe recorded data (stream gauge, me	sintoning weil, aenai photos, previous inspec		
Domarka			
Approximately 6 feet in elevation h	igner than wetland.		

VEGETATION - Use scientific names of plant	s			Sampling Point: 35
	Absolute	Dominant	Indicator	50/20 Thresholds
Tree Stratum Plot Size (30ft radius)	% Cover	Species	Status	Tree Stratum 0 0
1		Openico	Olaldo	Sapling/Shrub Stratum 0 0
2				Herb Stratum 32 79
3				Woody Vine Stratum 0 0
4				,
5				Dominance Test Worksheet
6				Number of Dominant
7				Species that are OBL,
8				FACW, or FAC: 0 (A)
9				Total Number of Dominant
10		Total Cavar		Species Across all Strata: 1 (B)
		= Total Cover		Percent of Dominant
		-		Species that are OBL,
Sapling/Shrub Plot Size (30ft radius) Stratum	Absolute % Cover	Dominant Species	Indicator Status	FACW, or FAC: 0.00% (A/B)
1				Prevalence Index Worksheet
2				Total % Cover of:
3				OBL species x 1 =
4				FACW species 0 x 2 = 0
5				FAC species <u>33</u> x 3 = <u>99</u>
6				FACU species $100 \times 4 = 400$
7				UPL species $25 \times 5 = 125$
8				Column totals 158 (A) 624 (B)
9		·		Prevalence Index = $B/A = 3.95$
10		Total Covar		
				Hydrophytic Vogotation Indicators:
	Absoluto	Dominant	Indicator	Ranid test for hydrophytic vegetation
Herb Stratum Plot Size (5ft radius)	% Cover	Species	Status	Dominance test is >50%
1 Poa pratensis	80	Y	FACU	$\frac{1}{2}$ Prevalence index is $\leq 3.0^*$
2 Equisetum arvense	20	<u> </u>	FAC	Morphological adaptations* (provide
3 Medicago lupulina	20	N	FACU	supporting data in Remarks or on a
4 Rhamnus cathartica	10	N	FAC	separate sheet)
5 Medicago sativa	10	N	UPL	Problematic hydrophytic vegetation*
6 Artemisia vulgaris	10	N	UPL	(explain)
7 Asclepias syriaca	5	N	UPL	*Indicators of hydric soil and wetland hydrology must be
8 Vitis riparia	3	N	FAC	present, unless disturbed or problematic
9				Definitions of Venetation Otesta
11		······		Definitions of vegetation Strata:
12				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
14				Sapling/shrub - Woody plants less than 3 in. DBH and
<u></u>	158 :	Total Cover		greater than 3.28 π (1 m) tall.
			la d'art	size, and woody plants less than 3.28 ft tall.
Vloody Vine Plot Size (30ft radius) Stratum	Absolute % Cover	Dominant Species	Indicator Status	Woody vines - All woody vines greater than 3.28 ft in
1				height.
2				
3				
4				Hydrophytic
5				vegetation
	0 =	Total Cover		present? N
Demorika: /include abote autobart at a second	to obost			
Remarks: (Include photo numbers here or on a separa	ate sheet)			
Ola field.				

							Sampling Point:	35
	h a 4 a 4h		4				······	
cription: (Descri Matrix	be to th	e depth needed Rec	to docu lox Feat	ment the	Indicato	or or confirm the abs	ence of indicators.)	
Color (moist)	%	Color (moist)	%	Type*	Loc**	Texture	Remar	ks
10YR 3/4	100					silty clay loam	gravelly	
Concentration, D	=Deplet	ion, RM=Reduce	ed Matri	x, CS=C	overed c	r Coated Sand Grain	ns	
PL=Pore Lining,	IVI=IVIat	rix				Indicators for I	Problematic Hydric S	oile
i maicators:						indicators for r	Problematic Hydric S	
tosol (A1)		Pol	yvalue E	Below Su	urface	2 cm Muck	(A10) (LRR K, L, MLR	A 149B
tic Epipedon (A2	2)	(S8	6) (LRR	R, MLRA	A 149B)	Coast Prairi	e Redox (A16) (LRR K	(, L, R)
ck Histic (A3) drogen Sulfide (/	(۸	ihi (IR	n Dark S	Surface ((S9) B	5 cm Mucky	/ Peat or Peat (S3) (LR	(R K, L, R)
atified Lavers (A	5)		amv Mu	ckv Mine	ral (F1)	Polyvalue B	elow Surface (S8) (LR	R K, L)
pleted Below Da	rk Surfa	ice (A11)(LR	R K, L)		()	Thin Dark S	urface (S9) (LRR K, L)
ck Dark Surface	(A12)	Loa	amy Gle	yed Matr	rix (F2)	Iron-Manga	nese Masses (F12) (LI	RR K, L, R)
ndy Mucky Minel	ral (S1) iv (S4)		VI Deted IV	latrix (F3 k Surface	3) 9 (E6)	Mesic Spod	ioodpiain Soils (F19) (i ic (TA6) (MI RA 144A	MLRA 149B) 145 149B)
ndy Redox (S5)	IX (04)	Der	oleted D	ark Surf	ace (F7)	Red Parent	Material (F21)	
ipped Matrix (S6)	Ree	dox Dep	ressions	s (F8)	Very Shallo	w Dark Surface (TF12))
rk Surface (S7) (LRR R,	MLRA				Other (Expla	ain in Remarks)	
3B) of hydrophytic y	enetatio	n and wetland h	vdrology	musth	o nroson	t unless disturbed c	or problematic	
	ogotatio		yarolog	y maor b			problemate	
Layer (if observe	ed):					Hydria cail pre	scont? N	
nes): 9				-		Hydric son pre		
				-				
at 9 inches d	ue to s	olid gravel fill.						
	cription: (Descri Matrix Color (moist) 10YR 3/4	cription: (Describe to th Matrix Color (moist) % 10YR 3/4 100 10YR 3/4 10 10YR 3/4 100 10YR 3/	cription: (Describe to the depth needed Matrix Rec Color (moist) % Color (moist) 10YR 3/4 100 10YR 3/4 10 10YR 3/4 100 10YR 3/4 100 10YR 3/4 10 10YR 3/4 10X 10YR	cription: (Describe to the depth needed to docu Matrix Redox Feat Color (moist) % Color (moist) % 10YR 3/4 100 10YR 3/4 10 10YR 3/4 10 10YR 3/4 10 10YR 3/4 10 10YR 3/4 10YR 3/4 10YR 3/4	cription: (Describe to the depth needed to document the Matrix Redox Features Color (moist) % Color (moist) % Type* 10YR 3/4 100 10YR 3/4 10 10YR 3/4 10YR 3/4	cription: (Describe to the depth needed to document the indicate Matrix Redox Features Color (moist) % Type* Loc** 10YR 3/4 100	cription: (Describe to the depth needed to document the indicator or confirm the abs Color (moist) % Color (moist) % Type* Loc** Texture 10YR 3/4 100	Sampling Point: Color (moist) % Color (moist) % Type: Loc* Texture Remar 10/R3/4 100 Image: Loc* Texture Remar Indicators Image: Loc* Texture Remar Image: Loc* Texture Remar Image: Loc* Texture Remar Image: Loc* Texture Image: Loc* Texture Remar Image: Loc* Texture Remar Image: Loc* Texture Remar Image: Loc* Texture Image: Loc* Texture Remar Image: Loc* Image:

Project/Site: Jefferson Interurban Trail	Phase 3 Cit	ty/County: I	konia/Jeffe	rson Sampling Date:	June 10, 2	022
Applicant/Owner: KL Engineering, Inc.		S	State: WI	Sampling P	oint:	36
Investigator(s): K. Sherfinski		S	Section, To	wnship, Range: S36, T8	3N, R16E	
Landform (hillslope, terrace, etc.): toe of	slope	Local	l relief (con	icave, convex, none):	concave	
Slope (%): 0-2 Lat.:	Long.:		Datum:			
Soil Map Unit Name Wacousta silty clay lo	am (Wa)			NWI Classification: non	ie	
Are climatic/hydrologic conditions of the s	ite typical for this tim	e of the year?	Yes	(If no, explain in remark	is)	
Are vegetation, soil,	or hydrology	_significantly c	disturbed?	Are "normal		
Are vegetation, soil,	or hydrology	naturally prob	olematic?	circumstances"	present?	Yes
(If needed, explain any answers in remark	(\$)					

SUMMARY OF FINDINGS

Hydrophytic vegetation present? Hydric soil present?	<u>Y</u> Y	Is the sampled area within a wetland?	
Indicators of wetland hydrology present?	Y	If yes, optional wetland site ID:	_
Remarks: (Explain alternative procedures h	nere or in a se	eparate report.)	

HYDROLOGY

		Secondary Indicators (minimum of two		
Primary Indicators (minimum of one is requ	uired: check all that apply)	required)		
Surface Water (A1)	Water-Stained Leaves (B9)	Surface Soil Cracks (B6)		
High Water Table (A2)	Aquatic Fauna (B13)	X Drainage Patterns (B10)		
Saturation (A3)	Marl Deposits (B15)	Moss Trim Lines (B16)		
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)		
Sediment Deposits (B2)	Oxidized Rhizospheres on Living	Crayfish Burrows (C8)		
Drift Deposits (B3)	X Roots (C3)	Saturation Visible on Aerial Imagery		
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)	(C9)		
Iron Deposits (B5)	Recent Iron Reduction in Tilled	Stunted or Stressed Plants (D1)		
Inundation Visible on Aerial	Soils (C6)	X Geomorphic Position (D2)		
Imagery (B7)	Thin Muck Surface (C7)	Shallow Aquitard (D3)		
Sparsely Vegetated Concave	Other (Explain in Remarks)	X FAC-Neutral Test (D5)		
Surface (B8)	—	Microtopographic Relief (D4)		
Field Observations:				
Surface water present? Yes	No X Depth (inches):	Indicators of		
Water table present? Yes X	No Depth (inches): 19	wetland		
Saturation present? Yes X	_ No Depth (inches): 18	hydrology		
(includes capillary fringe)		present? Y		
Describe recorded data (stream gauge, mo	onitoring well, aerial photos, previous inspec	ctions), if available:		
Descrite				
Remarks:				

otifi of nla . . -+

Absolute % Cover	Dominant Species	Indicator Status	50/20 Thresholds20%50%Tree Stratum0Sapling/Shrub Stratum0Herb Stratum2870Woody Vine Stratum00
% Cover	Species	Status	Tree Stratum00Sapling/Shrub Stratum00Herb Stratum2870Woody Vine Stratum00
			Sapling/Shrub Stratum00Herb Stratum2870Woody Vine Stratum00
			Herb Stratum2870Woody Vine Stratum00
			Woody Vine Stratum 0 0
·			
·			Dominance Test Worksheet
			Number of Dominant
			Species that are OBL,
			FACW, or FAC: <u>1</u> (A)
			Total Number of Dominant
	Total Cover		Species Across all Strata: <u>1</u> (B)
	= Total Cover		Percent of Dominant
	D · · ·		Species that are OBL,
Absolute % Cover	Dominant Species	Indicator Status	FACW, or FAC: <u>100.00%</u> (A/B
			Prevalence Index Worksheet
			Total % Cover of:
			$\begin{array}{c c} \text{OBL species} & 20 \\ \text{FAOW} \end{array} \times 1 = 20 \\ \end{array}$
			FACW species $103 \times 2 = 206$
			FAC species $5 \times 3 = 15$
			FACU species $8 \times 4 = 32$
			$\begin{array}{c c} \text{UPL species} & 3 & X5 = & 15 \\ \text{Column totals} & & 420 & (A) & & 000 & (D) \\ \end{array}$
			Column totals 139 (A) 288 (B)
			Prevalence index = $B/A = 2.07$
;	= Total Cover		
			Hydrophytic Vegetation Indicators:
Absolute	Dominant	Indicator	Rapid test for hydrophytic vegetation
% Cover	Species	Status	X Dominance test is >50%
100	Y	FACW	X Prevalence index is ≤3.0*
15	<u>N</u>	OBL	Morphological adaptations* (provide
5	<u>N</u>	OBL	supporting data in Remarks or on a
5	N	FAC	separate sheet)
5	<u>N</u>	FACU	Problematic hydrophytic vegetation*
3	<u>N</u>	UPL	(explain)
	<u>N</u>	FACW	*Indicators of hydric soil and wetland hydrology must be
3	<u> </u>	FACU	present, unless disturbed or problematic
·			Definitions of Vegetation Strata:
			Tree - Woody plants 3 in. (7.6 cm) or more in diameter
·			breast height (DBH), regardless of height.
			Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
139	= Total Cover		Herh - All herhaceous (non-woody) plants regardless of
			size, and woody plants less than 3.28 ft tall.
Absolute	Dominant	Indicator	
% Cover	Species	Status	Woody vines - All woody vines greater than 3.28 ft in
			neight.
			Hydrophytic
			nyurophytic vegetation
	- Total Cover		nresent? V
			<u> </u>
rate sheet)			
rate sheet)			
rate sheet)			
irate sheet)			
	0 . Absolute % Cover . . .	0= Total CoverAbsolute % CoverDominant Species 0 = Total Cover 0 = Total CoverAbsolute % CoverDominant Species 100 Y 15 N 5 N 5 N 5 N 3 N <trr< td=""><td>0= Total CoverAbsolute % CoverDominant SpeciesIndicator Status</td></trr<>	0= Total CoverAbsolute % CoverDominant SpeciesIndicator Status

SOIL								Sampling Point:	36
	(P								
Profile Des Depth	cription: (Description: Matrix	ibe to tn	e depth needed	to docu	ment the) indicato	or or confirm the abse	ence of indicators.)	
(Inches)	Color (moist)	%	Color (moist)	%	Type*	Loc**	Texture	Remar	ks
0-14	10YR 2/1	95	10YR 3/4	5	С	PL	mucky clay loam		
			<u> </u>	Ĺ	\square				
14-20	5Y 4/1	85	10YR 4/6	15	С	PL	silty clay	_	
<u> </u>		──	<u> </u> !	──		───′			
	 	┨────	ب	──	┼───	┨────┘			
	<u> </u>		┼ ───┦	├	+	├ ───┦			
	1		+ +	├	+				
	<u> </u>	<u> </u>	<u> </u>		<u>† </u>			<u> </u>	
								┤	
	- tothen D								
*Type: U=U	Di -Pore Lining	=Depiei M=Ma	ion, RM=Reauce	ed Matri	x, CS=U	overea	or Coated Sand Grain	าร	
Hvdric Soi	Indicators:	, 101-11-0					Indicators for F	Problematic Hydric S	oils:
	• • • • •								
His	tosol (A1)	~`	Poly	yvalue I	Below Su	urface	2 cm Muck ((A10) (LRR K, L, MLR	A 149B
Bla	tic Epipedon (A2	2)	(30 Thir) (LKK n Dark :	R, MLR/ Surface	A 149D) (S9)	5 cm Mucky	Peat or Peat (S3) (LF	₹, Ľ, Ҟ <i>)</i> ₹R K. L. R)
	drogen Sulfide (/	A4)	(LR	R R, M	LRA 149	9B	Dark Surfac	e (S7) (LRR K, L	uu u,,
Str	atified Layers (A	.5)	Loa	imy Mu	cky Mine	ral (F1)	Polyvalue B	elow Surface (S8) (LR	R K, L)
	pleted Below Da	rk Surfa	ace (A11) X (LR	R K, L)) d Mot		Thin Dark S	urface (S9) (LRR K, L	.)
	ndv Mucky Mine	ral (S1)	Loa	nieted N	Jatrix (F:	(r∠) 3)	Piedmont Fl	Ioodolain Soils (F12) (L	MLRA 149B)
Sa	ndy Gleyed Matr	rix (S4)	X Rec	dox Dar	k Surfac	;e (F6)	Mesic Spodi	ic (TA6) (MLRA 144A ,	, 145, 149B)
Sar	ndy Redox (S5)		Der	pleted D	Jark Surf	ace (F7)	Red Parent	Material (F21)	
Stri	ipped Matrix (S6	;) /I D D D		dox Dep	ressions	3 (F8)	Very Shallov	<i>w</i> Dark Surface (TF12))
14!	9 B)								
*Indicators	of hydrophytic v	regetatic	on and wetland h	ydrolog	y must b	e preser	nt, unless disturbed o	or problematic	
									
Restrictive	Laver (if observ	ed):							
Туре:		,					Hydric soil pre	esent? Y	
Depth (inch	nes):				-				
Remarks:						L			
F1. like	lv though a sc	il test f	or organic ma	tter co	ntent w	as not :	availabe.		
••••••	y	in tot.	01 01 92			uo			

Project/Site: Jefferson Interurban Trail Phase 3	City/County:	Ixonia/Jeffer	son Sampling Date: June 10, 20)22
Applicant/Owner: KL Engineering, Inc.		State: WI	Sampling Point: 3	37
Investigator(s): K. Sherfinski		Section, Tov	vnship, Range: S36, T8N, R16E	
Landform (hillslope, terrace, etc.): slight swale	Lo	cal relief (con	cave, convex, none): concave	
Slope (%): 2-3 Lat.: Long.	.:	Datum:		
Soil Map Unit Name Lamartine silt Ioam (LaB)			NWI Classification: none	
Are climatic/hydrologic conditions of the site typical for thi	is time of the year	? Yes	(If no, explain in remarks)	
Are vegetation, soil, or hydrology	significantl	y disturbed?	Are "normal	
Are vegetation, soil, or hydrology	naturally p	roblematic?	circumstances" present?	Yes
(If needed, explain any answers in remarks)				

SUMMARY OF FINDINGS

Hydrophytic vegetation present?	<u>N</u> N	Is the sampled area within a wetland? N
Indicators of wetland hydrology present?	N	If yes, optional wetland site ID:
Remarks: (Explain alternative procedures he	ere or in a se	eparate report.)

HYDROLOGY

		Secondary Indicators (minimum of two
Deine en la disetere (minimum ef en e is nem	was durable all that as all d	Secondary indicators (minimum of two
Primary indicators (minimum of one is requ		
Surface Water (A1)	Water-Stained Leaves (B9)	Surface Soil Cracks (B6)
High Water Table (A2)	Aquatic Fauna (B13)	Drainage Patterns (B10)
Saturation (A3)	Marl Deposits (B15)	Moss Trim Lines (B16)
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	Oxidized Rhizospheres on Living	Crayfish Burrows (C8)
Drift Deposits (B3)	Roots (C3)	Saturation Visible on Aerial Imagery
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)	(C9)
Iron Deposits (B5)	Recent Iron Reduction in Tilled	Stunted or Stressed Plants (D1)
Inundation Visible on Aerial	Soils (C6)	X Geomorphic Position (D2)
Imagery (B7)	Thin Muck Surface (C7)	Shallow Aguitard (D3)
Sparsely Vegetated Concave	Other (Explain in Remarks)	EAC-Neutral Test (D5)
Surface (B8)		Microtopographic Relief (D4)
Field Observations:		
Surface water present? Yes	No X Depth (inches):	Indicators of
Water table present? Yes	No X Depth (inches):	wetland
Saturation present? Ves	No X Depth (inches):	bydrology
(includes capillary fringe)		
(includes capillary minge)		
Describe recorded data (stream gauge, mo	paitoring well, porial photos, provious incos	actions) if available:
Describe recorded data (stream gauge, mo	finitoring well, aerial priotos, previous inspe	
Demonster		
Remarks:		
Approximately 5 feet in elevation h	igher than wetland.	

VEGETATION - Use scientific names of plant	s			Sampling Point: 37
Tree Stratum Plot Size (30ft radius)	Absolute	Dominant	Indicator	50/20 Thresholds 20% 50%
	% Cover	Species	Status	Tree Stratum 1 2
1 Juniperus communis	3		FACU	Sapling/Shrub Stratum 2 5
2				Herb Stratum 25 63
۵ ۸				
5				Dominance Test Worksheet
6				Number of Dominant
7				Species that are OBL,
8				FACW, or FAC: 0 (A)
9				Total Number of Dominant
10				Species Across all Strata: 4 (B)
	3 =	= Total Cover		Percent of Dominant
				Species that are OBL,
Sapling/Shrub Plot Size (30ft radius)	Absolute	Dominant	Indicator	FACW, or FAC: 0.00% (A/B)
Stratum	% Cover	Species	Status	
1 Rosa multiflora	5	Y	FACU	Prevalence Index Worksheet
2 Juniperus communis	2	Y	FACU	Total % Cover of:
3 Morus alba	2	Y	FACU	OBL species $0 x 1 = 0$
4				FACW species $0 \times 2 = 0$
5				FAC species $0 \times 3 = 0$
6				FACU species $137 \times 4 = 548$
/				$\begin{array}{c c} UPL \text{ species} & \underline{0} & X5 = \underline{0} \\ Column totals & \underline{127} & (A) & \underline{548} & (B) \end{array}$
8				$\frac{137}{(A)} = \frac{137}{(A)} = \frac{1340}{(B)}$
9				
	9	= Total Cover		
				Hydrophytic Vegetation Indicators:
	Absolute	Dominant	Indicator	Rapid test for hydrophytic vegetation
Herb Stratum Plot Size (5ft radius)	% Cover	Species	Status	Dominance test is >50%
1 Poa pratensis	95	Y	FACU	Prevalence index is ≤3.0*
2 Trifolium pratense	20	N	FACU	Morphological adaptations* (provide
3 Taraxacum officinale	5	N	FACU	supporting data in Remarks or on a
4 Medicago lupulina	3	<u>N</u>	FACU	separate sheet)
5 Dactylis glomerata	2	<u> </u>	FACU	Problematic hydrophytic vegetation*
6				
8				*Indicators of hydric soil and wetland hydrology must be
0				present, unless disturbed of problematic
10				Definitions of Vegetation Strata:
11				
12				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
13				breast height (DBH), regardless of height.
14				Sapling/shrub - Woody plants less than 3 in. DBH and
15				greater than 3.28 ft (1 m) tall.
	125 :	= Total Cover		Herb - All berbaceous (non-woody) plants, regardless of
		-		size, and woody plants less than 3.28 ft tall.
Woody Vine Plot Size (30ft radius)	Absolute	Dominant	Indicator	
Stratum	% Cover	Species	Status	Woody vines - All woody vines greater than 3.28 ft in
2				neight.
3				
4				Hadron backs
5				Hydrophytic
		Total Covor		prosent2
Remarks: (Include photo numbers here or on a separa	ate sheet)			I
Old field.	/			

SOIL							S	Sampling Point: 37	
Profile Des	cription: (Descri	be to th	e depth needed	to docu	ment the	e indicato	or or confirm the absen	ice of indicators.)	
(Inches)	Color (moist)	%	Color (moist)	юх геа %	Tvpe*	Loc**	Texture	Remarks	
0-9	10YR 3/2	98	10YR 3/6	2	C	M	silt loam		
9-20	10YR 4/3	97	10YR 3/6	3	С	М	silty clay		
*Type: C=C	Concentration, D	=Deplet	ion, RM=Reduce	ed Matri	x. CS=C	overed c	r Coated Sand Grains		
**Location:	PL=Pore Lining,	M=Mat	rix		.,	010104			
Hydric Soi	I Indicators:						Indicators for Pre	oblematic Hydric Soils:	
									_
His	tosol (A1) tia Eninadan (A2))	Poly	yvalue l			2 cm Muck (A	10) (LKK K, L, MLKA 1498 Reday (A16) (LRR K L R)	5
Bla	ck Histic (A3)	-)	(38	n Dark	Surface ((S9)	5 cm Mucky F	Peat or Peat (S3) (LRR K, L	, R)
Hyd	drogen Sulfide (A	\ 4)	(LR	RR, M	LRA 149)B	Dark Surface	(S7) (LRR K, L	, ,
Stra	atified Layers (A	5)	Loa	amy Mu	cky Mine	ral (F1)	Polyvalue Bel	ow Surface (S8) (LRR K, L))
	oleted Below Da	rk Surfa	.ce (A11)(LR	R K, L)) Wood Mot		Thin Dark Sur	face (S9) (LRR K, L)	D)
	ok Dark Surface	(ATZ) al (S1)	Loa	any Gie Sleted N	yeu wau Aatrix (E3	(F∠) R)		odolain Soils (F12) (LRR R, I	_, K) 149B)
Sa	ndy Gleyed Matri	ix (S4)	Boo	dox Dar	k Surfac	e (F6)	Mesic Spodic	(TA6) (MLRA 144A, 145, 1	49B)
Sa	ndy Redox (S5)	. ,	Dep	oleted D	Dark Surf	ace (F7)	Red Parent M	aterial (F21)	
Stri	pped Matrix (S6)	Rec	dox Dep	pressions	s (F8)	Very Shallow	Dark Surface (TF12)	
Dai 140	rk Surface (S7) (LRR R,	MLRA				Other (Explain	n in Remarks)	
*Indicators	of hvdrophvtic v	eaetatio	n and wetland h	vdroloa	v must b	e preser	t. unless disturbed or	problematic	
		- 3		, <u>-</u> - <u>-</u>	,		,		
D (1) (1)		N							
Restrictive	Layer (if observe	ed):					Hydric soil pros	ont? N	
Depth (inch	les):				-		nyune son pres		
- op (o.					-				
Remarks:									

Project/Site: Jefferson Interurban Trail Phase 3	City/County:	Ixonia/Jefferso	Sampling Date: June 10,	2022
Applicant/Owner: KL Engineering, Inc.		State: WI	Sampling Point:	38
Investigator(s): K. Sherfinski		Section, Towns	ship, Range: S36, T8N, R16E	
Landform (hillslope, terrace, etc.): swale	Lo	cal relief (conca	ve, convex, none): concave	
Slope (%): 0-3 Lat.: Lor	ng.:	Datum:		
Soil Map Unit Name Keowns silt Ioam (Kb)		NV	VI Classification: none	
Are climatic/hydrologic conditions of the site typical for	this time of the year	? Yes (If	no, explain in remarks)	
Are vegetation, soil, or hydrology	significantl	y disturbed?	Are "normal	
Are vegetation, soil, or hydrology	naturally p	roblematic?	circumstances" present?	Yes
(If needed, explain any answers in remarks)				

SUMMARY OF FINDINGS

Hydrophytic vegetation present? Hydric soil present?	<u>Y</u> Y	Is the sampled area within a wetland? Y				
Indicators of wetland hydrology present?	Y	If yes, optional wetland site ID:				
Remarks: (Explain alternative procedures here or in a separate report.)						

HYDROLOGY

		Secondary Indicators (minimum of two
Primary Indicators (minimum of one is requ	uired; check all that apply)	required)
Surface Water (A1)	Water-Stained Leaves (B9)	Surface Soil Cracks (B6)
High Water Table (A2)	Aquatic Fauna (B13)	X Drainage Patterns (B10)
Saturation (A3)	Marl Deposits (B15)	Moss Trim Lines (B16)
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	Oxidized Rhizospheres on Living	Crayfish Burrows (C8)
Drift Deposits (B3)	Roots (C3)	Saturation Visible on Aerial Imagery
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)	(C9)
Iron Deposits (B5)	Recent Iron Reduction in Tilled	Stunted or Stressed Plants (D1)
Inundation Visible on Aerial	Soils (C6)	X Geomorphic Position (D2)
Imagery (B7)	Thin Muck Surface (C7)	Shallow Aquitard (D3)
Sparsely Vegetated Concave	Other (Explain in Remarks)	X FAC-Neutral Test (D5)
Surface (B8)		Microtopographic Relief (D4)
Field Observations:		
Surface water present? Yes	No X Depth (inches):	Indicators of
Water table present? Yes	No X Depth (inches):	wetland
Saturation present? Yes	No X Depth (inches):	hydrology
(includes capillary fringe)		present? Y
Describe recorded data (stream gauge, mo	pnitoring well, aerial photos, previous inspe	ections), if available:
Remarks:		
Swale is approximately 4 feet wide	by 4 feet deep with steeply sloped s	sides.
· · ·	· · · · ·	

stifi of nla . .

Absolute % Cover	Dominant Species	Indicator Status	50/20 Thresholds 20% 50% Tree Stratum 0 0
-	- 1	-	Sapling/Shrub Stratum 0 0
			Herb Stratum 23 57
			Woody Vine Stratum 0 0
			Dominance Test Worksheet
			Number of Dominant
			Species that are OBL,
			FACW, or FAC: <u>1</u> (A)
			I otal Number of Dominant Species Across all Strata: 1 (B)
	= Total Cover		Bereent of Dominant
			Species that are OBL.
Absolute % Cover	Dominant Species	Indicator Status	FACW, or FAC:100.00% (A/E
			Prevalence Index Worksheet
			Total % Cover of:
			$\begin{array}{c c} \text{OBL species} & 0 & \text{X1} = & 0 \\ \text{EACW species} & 108 & \text{X2} = & 216 \\ \end{array}$
			FAC species $0 \times 3 = 0$
			FACU species $5 \times 4 = 20$
			UPL species $0 \times 5 = 0$
			Column totals <u>113</u> (A) <u>236</u> (B) Proviolonge Index = $P(A = 2.00)$
			Prevalence index = $B/A = 2.09$
0	= Total Cover		
			Hydrophytic Vegetation Indicators:
Absolute	Dominant	Indicator	Rapid test for hydrophytic vegetation
% Cover	Species	Status FACW/	X Dominance test is >50%
10	<u> </u>	FACW	Morphological adaptations* (provide
5	Ν	FACU	supporting data in Remarks or on a
3	N	FACW	separate sheet)
			Problematic hydrophytic vegetation*
			(explain)
			present, unless disturbed or problematic
			Definitions of Vegetation Strata:
			Tree - Woody plants 3 in. (7.6 cm) or more in diameter breast height (DBH), regardless of height.
			Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
113	= Total Cover		Herb - All herbaceous (non-woody) plants, regardless
Absolute	Dominant	Indicator	size, and woody plants less than 3.28 ft tall.
% Cover	Species	Status	Woody vines - All woody vines greater than 3.28 ft in height.
			Hvdrophytic
_			vegetation
0	= Total Cover		present? Y
arate sneet)			
,			
	Absolute % Cover 0 Absolute % Cover 0 Absolute % Cover 95 10 5 3 0 Absolute % Cover 95 10 5 3 10 5 3 10 5 3 10 5 3 10 5 3 10 5 3 10 5 3 10 5 3 10 5 3 10 5 3 10 5 3 10 5 3 10 5 3 10 5 3 10 5 10 5	Absolute % CoverDominant Species \bigcirc	Absolute % Cover Dominant Species Indicator Status

SOIL							S	ampling Point:	38
Profile Des	cription: (Descri	ibe to th	e depth needed	to docu	ment the	e indicato	or or confirm the absend	ce of indicators.)	
(Inches)	Color (moist)	%	Color (moist)	0X Fea	Tvpe*	Loc**	Texture	Remark	ks
0-12	10YR 2/2	95	10YR 3/4	5	C	PL/M	silty clay loam		
				_					
12-16	10YR 4/2	95	10YR 3/6	5	С	PL	silty clay		
16-22	10YR 6/2	75	10YR 5/9	15	С	PL/M	silty clay		
	10YR 2/2	10						inclusions	
*Type: C=C	Concentration, D:	 =Depleti	on, RM=Reduce	d Matri	x. CS=C	overed c	r Coated Sand Grains		
**Location:	PL=Pore Lining	, M=Mat	rix	aman	,, 00-0				
Hydric Soi	I Indicators:						Indicators for Pro	blematic Hydric So	oils:
His	tosol (A1) tia Eninadan (A2	2)	Poly	yvalue I			2 cm Muck (A1	10) (LKK K, L, MLK Podov (A16) (I PP K	A 149B
Bla	ck Histic (A3)	-)	(38	Dark S	Surface	(S9)	5 cm Mucky Pe	eat or Peat (S3) (LR	R K, L, R)
Hyd	drogen Sulfide (A	44)	(LR	RR, M	LRA 149)B	Dark Surface (S7) (LRR K, L	, , ,
Stra	atified Layers (A	5)	Loa	my Mu	cky Mine	ral (F1)	Polyvalue Belo	w Surface (S8) (LR	R K, L)
X Dep	oleted Below Da	rk Surfa	ce (A11)(LR	RK,L)	vod Mot	riv (E2)	I hin Dark Surf	ace (S9) (LRR K, L)) DDKID)
Sar	ndv Mucky Mine	(A12) ral (S1)	Loa	oleted N	Jatrix (F3	11X (FZ) 3)	Piedmont Floo	dplain Soils (F19) (MLRA 149B)
Sar	ndy Gleyed Matr	ix (S4)	X Rec	lox Dar	k Surfac	e (F6)	Mesic Spodic ((TA6) (MLRA 144A ,	145, 149B)
Sar	ndy Redox (S5)		Dep	oleted D	ark Surf	ace (F7)	Red Parent Ma	aterial (F21)	
Stri	pped Matrix (S6)		lox Dep	ressions	s (F8)	Very Shallow [Dark Surface (TF12)	
140	nk Sunace (S7) (BB)	LKK K,	WILKA					in Remarks)	
*Indicators	of hydrophytic v	egetatio	n and wetland hy	drolog	y must b	e presen	t, unless disturbed or p	oroblematic	
		•					•		
Destriction		I\ -							
Restrictive	Layer (If observe	ea):					Hydric soil prese	ent? Y	
Depth (inch	ies):				-			<u> </u>	
• •	,				-				
Remarks:									
L									

Project/Site: Jefferson Interurban Trail Phase 3	City/County:	Ixonia/Jefferson	Sampling Date: June 10,	2022
Applicant/Owner: KL Engineering, Inc.		State: WI	Sampling Point:	39
Investigator(s): K. Sherfinski		Section, Township	o, Range: S36, T8N, R16E	
Landform (hillslope, terrace, etc.): hillslope	Lo	cal relief (concave,	convex, none): convex	
Slope (%): 4-6 Lat.: L	.ong.:	Datum:		
Soil Map Unit Name Keowns silt Ioam (Kb)		NWI	Classification: none	
Are climatic/hydrologic conditions of the site typical for	or this time of the year	? Yes (If no,	explain in remarks)	
Are vegetation, soil, or hydrology	/significantl	y disturbed?	Are "normal	
Are vegetation, soil, or hydrology	/naturally p	oblematic?	circumstances" present?	Yes
(If needed, explain any answers in remarks)				

SUMMARY OF FINDINGS

Hydrophytic vegetation present?NHydric soil present?NIndicators of wetland hydrology present?N	Is the sampled area within a wetland? N
Remarks: (Explain alternative procedures here or in a	separate report.)

HYDROLOGY

		Secondary Indicators (minimum of two
		Secondary indicators (minimum or two
Primary indicators (minimum of one is requ	irea; cneck all that apply)	
Surface Water (A1)	Water-Stained Leaves (B9)	Surface Soil Cracks (B6)
High Water Table (A2)	Aquatic Fauna (B13)	Drainage Patterns (B10)
Saturation (A3)	Marl Deposits (B15)	Moss Trim Lines (B16)
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	Oxidized Rhizospheres on Living	Crayfish Burrows (C8)
Drift Deposits (B3)	Roots (C3)	Saturation Visible on Aerial Imagery
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)	(C9)
Iron Deposits (B5)	Recent Iron Reduction in Tilled	Stunted or Stressed Plants (D1)
Inundation Visible on Aerial	Soils (C6)	Geomorphic Position (D2)
Imagery (B7)	Thin Muck Surface (C7)	Shallow Aguitard (D3)
Sparsely Vegetated Concave	Other (Explain in Remarks)	FAC-Neutral Test (D5)
Surface (B8)		Microtopographic Relief (D4)
Field Observations:		
Surface water present? Yes	No X Depth (inches):	Indicators of
Water table present? Yes	No X Depth (inches):	
Saturation present? Ves	No X Depth (inches):	- bydrology
(includes capillary fringe)		nresent2N
(includes capillary minge)		
Describe recorded data (stream gauge ma	nitoring well, parial photos, provious inspor	ations) if available:
Describe recorded data (stream gauge, mo	nitoring well, aenai priotos, previous inspec	
Dementing		
Remarks:		
Approximately 8 feet in elevation hi	gher than wetland.	

VEGETATION - Use scientific names of plant	s			Sampling Point: 39
Tree Stratum Plot Size(30ft radius)	Absolute % Cover	Dominant Species	Indicator Status	50/20 Thresholds 20% 50% Tree Stratum 0 0 Sapling/Shrub Stratum 0 0
2 3 4				Herb Stratum2256Woody Vine Stratum00
5 6 7				Dominance Test Worksheet Number of Dominant Species that are OBL,
8 9 10				FACW, or FAC:0(A)Total Number of Dominant
Capline/Obruh		Total Cover	Indiantar	Percent of Dominant Species that are OBL,
Stratum Plot Size (30ft radius)	% Cover	Species	Status	Prevalence Index Worksheet
2 3 4 5 6 7 8				Total % Cover of:OBL species 0 $x 1 =$ 0 FACW species 20 $x 2 =$ 40 FAC species 0 $x 3 =$ 0 FACU species 30 $x 4 =$ 120 UPL species 62 $x 5 =$ 310 Column totals 112 (A) 470
9 10		Tatal Cavar		Prevalence Index = $B/A = 4.20$
Herb Stratum Plot Size (5ft radius)	Absolute % Cover	Dominant Species	Indicator Status	Hydrophytic Vegetation Indicators: Rapid test for hydrophytic vegetation Dominance test is >50% Providence index is <2.0*
 2 Phalaris arundinacea 3 Cirsium arvense 4 Poa pratensis 5 Asclepias syriaca 	20 20 10 2	N N N N	FACW FACU FACU UPL	Morphological adaptations* (provide supporting data in Remarks or on a separate sheet) Problematic hydrophytic vegetation*
6 7 8				(explain) *Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic
9				Definitions of Vegetation Strata:
12 13				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
14 15		Total Cover		Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
Woody Vine	Absolute	Dominant	Indicator	Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Stratum Plot Size (30ft radius) 1 2	% Cover	Species	Status	Woody vines - All woody vines greater than 3.28 ft in height.
3				Hydrophytic
5	0 =	Total Cover		vegetation present? N
Remarks: (Include photo numbers here or on a separa Old field.	ate sheet)			1

SOIL								Sampling Point:	39
Profile Des	cription: (Descri	be to th	e depth needed	to docu	ment the	indicato	or or confirm the abso	ence of indicators.)	
(Inches)	Color (moist)	%	Color (moist)	iox Feat %	ures Type*	L oc**	Texture	Remar	ks
0-11	10YR 3/3	100		70	Турс	LUC	loam		
011	101110,0	100					loan		
*Type: C=C	Concentration, D=	Depleti	ion, RM=Reduce	ed Matrix	x, CS=C	overed o	r Coated Sand Grain	ns	
Location:	PL=Pore Lining,	w=wat	.11X				Indicators for F		elle:
nyaric Sol	i indicators:						indicators for h	Problematic Hydric 5	ons:
His His Bla Hyu Str De Thi Sau Sau Sau Sau Str Da *Indicators Restrictive Type:	tosol (A1) tic Epipedon (A2 ck Histic (A3) drogen Sulfide (A atified Layers (A bleted Below Dar ck Dark Surface ndy Mucky Miner ndy Gleyed Matrin ndy Redox (S5) pped Matrix (S6) rk Surface (S7) (DB) of hydrophytic ve Layer (if observe ravel fill) (4) 5) k Surfa (A12) al (S1) x (S4)) LRR R, egetatio	Poly (S8 Thir Loa ce (A11) (LR Loa Dep Rec MLRA	yvalue E) (LRR n Dark S R R, Mi my Muc R K, L) imy Gle oleted N dox Darl oleted D dox Dep	Below Su R, MLRJ Surface (LRA 149 Cky Mine yed Matri latrix (F3 k Surface lark Surface ressions / must be	urface A 149B) (S9) B ral (F1) rix (F2) 8) e (F6) ace (F7) 5 (F8) e presen	2 cm Muck of Coast Prairi 5 cm Mucky Dark Surfac Polyvalue B Thin Dark S Iron-Mangar Piedmont Fl Mesic Spod Red Parent Very Shallow Other (Expla t, unless disturbed co	(A10) (LRR K, L, MLR e Redox (A16) (LRR K ' Peat or Peat (S3) (LR e (S7) (LRR K, L elow Surface (S8) (LR urface (S9) (LRR K, L nese Masses (F12) (L loodplain Soils (F19) (I ic (TA6) (MLRA 144A, Material (F21) w Dark Surface (TF12) ain in Remarks) or problematic	:A 149B <, L, R) <r k,="" l,="" r)<br="">.) RR K, L, R) MLRA 149B) , 145, 149B))</r>
Depth (inch	nes): 11				-				
Refusa	at 11 inches o	due to	solid gravel fill	I.					

Project/Site: Jefferson Interurban Trail Phase 3	City/County:	Ixonia/Jefferso	on Sampling Date: June 10, 2	2022
Applicant/Owner: KL Engineering, Inc.		State: WI	Sampling Point:	40
Investigator(s): K. Sherfinski		Section, Town	nship, Range: S36, T8N, R16E	
Landform (hillslope, terrace, etc.): swale	Lo	cal relief (conca	ave, convex, none): concave	
Slope (%): 0-2 Lat.: Lon	ng.:	Datum:		
Soil Map Unit Name Keowns silt Ioam (Kb)		N	WI Classification: none	
Are climatic/hydrologic conditions of the site typical for t	this time of the year	? Yes (If	no, explain in remarks)	
Are vegetation, soil, or hydrology	significantl	y disturbed?	Are "normal	
Are vegetation, soil, or hydrology	naturally p	roblematic?	circumstances" present?	Yes
(If needed, explain any answers in remarks)				

SUMMARY OF FINDINGS

Hydrophytic vegetation present? Hydric soil present?	<u>Y</u> Y	Is the sampled area within a wetland?
Indicators of wetland hydrology present?	Y	If yes, optional wetland site ID:
Remarks: (Explain alternative procedures	here or in a se	eparate report.)

HYDROLOGY

		Secondary Indicators (minimum of two
Primary Indicators (minimum of one is real	uired: check all that apply)	required)
Surface Water (A1)	Water-Stained Leaves (B9)	Surface Soil Cracks (B6)
High Water Table (A2)	Aquatic Fauna (B13)	X Drainage Patterns (B10)
Saturation (A2)	Marl Doposite (B15)	Moss Trim Linos (B16)
Saturation (AS)	Hydrogon Sulfide Oder (C1)	Dry Seesen Water Table (C2)
Sediment Depenting (B2)	Hydrogen Sunde Odor (C1)	Dry-Season Water Table (C2)
Def((Deposits (B2)	Oxidized Rhizospheres on Living	Crayiish Burrows (C8)
	Roots (C3)	Saturation Visible on Aerial Imagery
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)	(C9)
Iron Deposits (B5)	Recent Iron Reduction in Tilled	Stunted or Stressed Plants (D1)
Inundation Visible on Aerial	Soils (C6)	X Geomorphic Position (D2)
Imagery (B7)	Thin Muck Surface (C7)	Shallow Aquitard (D3)
Sparsely Vegetated Concave	Other (Explain in Remarks)	X FAC-Neutral Test (D5)
Surface (B8)		Microtopographic Relief (D4)
Field Observations:		
Surface water present? Yes	No X Depth (inches):	Indicators of
Water table present? Yes	No X Depth (inches):	wetland
Saturation present? Yes	No X Depth (inches):	hydrology
(includes capillary fringe)		present? Y
Describe recorded data (stream gauge, me	onitoring well, aerial photos, previous insp	ections), if available:
Remarks:		
Swale is connected to culvert under	er utility access drive and under Ski	Slide Road

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Tree Stratum Plot Size (30ft radius) Absolute % Cover Dominant Species Indicator Status	50/20 Thresholds20%50%Tree Stratum00Sapling/Shrub Stratum00Herb Stratum2460Woody Vine Stratum00Dominance Test WorksheetNumber of DominantSpecies that are OBL,FACW, or FAC:1Total Number of DominantSpecies Across all Strata:1Bercent of DominantSpecies that are OBL,FACW, or FAC:100.00%Percent of DominantSpecies that are OBL,FACW, or FAC:100.00%Cols species0x 1 =0FACW species105x 2 =210FAC species5x 3 =15FACU species10x 4 =40UPL species0x 5 =0Column totals120(A)265Prevalence Index = B/A =2.21Hydrophytic Vegetation Indicators:Rapid test for hydrophytic vegetationXDominance test is >50%XPrevalence index is $\leq 3.0^*$ Morphological adaptations* (provide supporting data in Remarks or on aaccurrent to the test
Tree Stratum Plot Size (30ft radius) Absolute % Cover Duminant Species Indicator Status	20% $50%$ Tree Stratum00Sapling/Shrub Stratum00Herb Stratum2460Woody Vine Stratum00Dominance Test WorksheetNumber of DominantSpecies that are OBL,FACW, or FAC:1FACW, or FAC:1(A)Total Number of DominantSpecies Across all Strata:1Species that are OBL,FACW, or FAC:100.00%Percent of DominantSpecies that are OBL,FACW, or FAC:100.00%OBL species0x 1 =Yerevalence Index WorksheetTotal % Cover of:OBL species0X 1 =0FACW species105x 2 =210FAC species5x 3 =15FACU species10x 4 =40UPL species0x 5 =0Column totals120(A)265Prevalence Index = B/A =2.21Hydrophytic Vegetation Indicators:Rapid test for hydrophytic vegetationXDominance test is >50%XPrevalence index is <3.0*Morphological adaptations* (provide supporting data in Remarks or on asupporting data in Remarks or on a
% Cover Species Status	Tree Stratum00Sapling/Shrub Stratum00Herb Stratum2460Woody Vine Stratum00Dominance Test WorksheetNumber of DominantSpecies that are OBL,FACW, or FAC:1Total Number of DominantSpecies Across all Strata:1Percent of DominantSpecies that are OBL,FACW, or FAC:100.00%Percent of DominantSpecies that are OBL,FACW, or FAC:100.00%Morphotic VegetationMorphotic Vegetation Indicators:Rapid test for hydrophytic vegetationXDominance test is >50%XPrevalence index is <3.0*
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Parthenocissus quinquefolia 5 N FACU	separate sneet)
	Problematic hydrophytic vegetation*
	(explain)
	*Indicators of hydric soil and wetland hydrology must
	present, unless disturbed or problematic
= =	Definitions of Vegetation Strata:
= =	T
= Total Cover	I ree - Woody plants 3 in. (7.6 cm) or more in diamet
= Total Cover	breast height (DBH), regardless of height.
120 = Total Cover	Sapling/shrub - Woody plants less than 3 in DBH a
120 = Total Cover	greater than 3.28 ft (1 m) tall.
	3 • • • • • • • • • • • • • • • • • • •
	Herb - All herbaceous (non-woody) plants, regardles
Woody Vine Absolute Dominant Indicator	size, and woody plants less than 3.28 ft tall.
Stratum Plot Size (30ft radius) % Cover Species Status	
Stratum 70 Cover Opecies Status	Woody vines - All woody vines greater than 3.28 ft in
	neight.
	Hydrophytic
	vegetation
0 = Total Cover	•
	present? Y
marks: (Include photo numbers here or on a separate sheet)	present? Y
hans, include proto numbers here of on a separate sheety	present? Y
	present? Y
	present? Y
	present? Y

SOIL							Sa	ampling Point: 40
		9 d						
Profile Des	cription: (Descri Matrix	ibe to th	e depth needed i Red	to docu		e indicato	or or confirm the absence	e of indicators.)
(Inches)	Color (moist)	%	Color (moist)	%	Tvpe*	Loc**	Texture	Remarks
0-11	10YR 2/2	95	10YR 3/6	5	C	PL	silty clay loam	1
				-	_			
11-15	10YR 3/2	85	10YR 4/6	15	С	PL	silty clay loam	
15-21	10YR 5/2	70	10YR 4/6	20	С	PL/M	silty clay	
	10YR 2/2	10					• •	inclusions
*Type: C=C	Concentration, D	=Depleti	on, RM=Reduce	d Matri	x, CS=C	overed o	r Coated Sand Grains	
**Location:	PL=Pore Lining	, M=Mat	rix					
Hydric Soi	I Indicators:						Indicators for Pro	blematic Hydric Soils:
His His Bla Hyd Str: Dep Thi Sau Sau Sau Sau Sau Sau Sau Sau Sau Da thi Da thi Da thi Da thi Da	tosol (A1) tic Epipedon (A2 ck Histic (A3) drogen Sulfide (/ atified Layers (A bleted Below Da ck Dark Surface ndy Mucky Mine ndy Gleyed Matr ndy Redox (S5) pped Matrix (S6 rk Surface (S7) (DB) of hydrophytic v	2) 5) rk Surfa (A12) ral (S1) ix (S4) (LRR R, (LRR R, egetatio	Poly (S8) Thir Loa ce (A11) (LR Loa Dep X Rec MLRA n and wetland hy	yvalue f) (LRR n Dark S R R, M my Muu R K, L) my Gle bleted M dox Darb bleted D dox Dep	Below Si R, MLR Surface LRA 14 Cky Mine yed Mat latrix (F: k Surfac bark Surfac bar	urface A 149B) (S9) 9B eral (F1) rix (F2) 3) e (F6) face (F7) s (F8) e presen	2 cm Muck (A1 Coast Prairie R 5 cm Mucky Pe Dark Surface (Polyvalue Belo Thin Dark Surfa Iron-Manganes Piedmont Flood Mesic Spodic (Red Parent Ma Very Shallow D Other (Explain t, unless disturbed or p	0) (LRR K, L, MLRA 149B kedox (A16) (LRR K, L, R) eat or Peat (S3) (LRR K, L, R) S7) (LRR K, L w Surface (S8) (LRR K, L) ace (S9) (LRR K, L) the Masses (F12) (LRR K, L, R) dplain Soils (F19) (MLRA 149B) TA6) (MLRA 144A, 145, 149B) aterial (F21) Dark Surface (TF12) in Remarks) problematic

Project/Site: J	lefferson Interurba	n Trail Phase 3	City/County:	Ixonia/Jeffer	son Sampling Date:	: June 10, 2	2022
Applicant/Owner:	KL Engineering	g, Inc.		State: WI	Sampling F	Point:	41
Investigator(s): k	K. Sherfinski			Section, Tov	wnship, Range: S36, T8	8N, R16E	
Landform (hillslop	pe, terrace, etc.):	toe of slope of a sligh	t swale Lo	cal relief (con	cave, convex, none):	concave	
Slope (%): 0-2	Lat.:	Long.	.:	Datum:			
Soil Map Unit Na	meSebewa silt loa	am (Sm)			NWI Classification: nor	ne	
Are climatic/hydro	ologic conditions of	of the site typical for thi	s time of the year	? Yes	(If no, explain in remark	<s)< td=""><td></td></s)<>	
Are vegetation	, soil	, or hydrology	significantl	y disturbed?	Are "normal		
Are vegetation	, soil	, or hydrology	naturally p	roblematic?	circumstances"	present?	Yes
(If needed, explai	in any answers in	remarks)					

SUMMARY OF FINDINGS

Hydrophytic vegetation present? Hydric soil present?	<u>Y</u> Y	Is the sampled area within a wetland?	
Indicators of wetland hydrology present?	Y	If yes, optional wetland site ID:	
Remarks: (Explain alternative procedures	here or in a s	eparate report.)	

HYDROLOGY

		Secondary Indicators (minimum of two		
Primary Indicators (minimum of one is re	equired; check all that apply)	required)		
Surface Water (A1)	Water-Stained Leaves (B9)	Surface Soil Cracks (B6)		
High Water Table (A2)	Aquatic Fauna (B13)	X Drainage Patterns (B10)		
Saturation (A3)	Marl Deposits (B15)	Moss Trim Lines (B16)		
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)		
Sediment Deposits (B2)	Oxidized Rhizospheres on Living	Crayfish Burrows (C8)		
Drift Deposits (B3)	Roots (C3)	Saturation Visible on Aerial Imagery		
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)	(C9)		
Iron Deposits (B5)	Recent Iron Reduction in Tilled	Stunted or Stressed Plants (D1)		
Inundation Visible on Aerial	Soils (C6)	X Geomorphic Position (D2)		
Imagery (B7)	Thin Muck Surface (C7)	Shallow Aquitard (D3)		
Sparsely Vegetated Concave	Other (Explain in Remarks)	X FAC-Neutral Test (D5)		
Surface (B8)		Microtopographic Relief (D4)		
Field Observations:				
Field Observations: Surface water present? Yes	No X Depth (inches):	Indicators of		
Field Observations:Surface water present?YesWater table present?Yes	No X Depth (inches): No X Depth (inches):	Indicators of wetland		
Field Observations: Surface water present? Yes Water table present? Yes Saturation present? Yes	No X Depth (inches): No X Depth (inches): No X Depth (inches):	Indicators of wetland hydrology		
Field Observations: Surface water present? Yes Water table present? Yes Saturation present? Yes (includes capillary fringe)	No X Depth (inches): No X Depth (inches): No X Depth (inches):	Indicators of wetland hydrology present? Y		
Field Observations: Surface water present? Yes Water table present? Yes Saturation present? Yes (includes capillary fringe)	NoXDepth (inches):NoXDepth (inches):NoXDepth (inches):	Indicators of wetland hydrology present? Y		
Field Observations: Surface water present? Yes Water table present? Yes Saturation present? Yes (includes capillary fringe)	No X Depth (inches): No X Depth (inches): No X Depth (inches): monitoring well, aerial photos, previous insp	Indicators of wetland hydrology present? Y		
Field Observations: Surface water present? Yes Water table present? Yes Saturation present? Yes (includes capillary fringe)	No X Depth (inches): No X Depth (inches): No X Depth (inches): monitoring well, aerial photos, previous insp	Indicators of wetland hydrology present? Y pections), if available:		
Field Observations: Surface water present? Yes Water table present? Yes Saturation present? Yes (includes capillary fringe)	No X Depth (inches): No X Depth (inches): No X Depth (inches): monitoring well, aerial photos, previous insp	<pre>Indicators of wetland hydrology present? Y Dections), if available:</pre>		
Field Observations: Surface water present? Yes Water table present? Yes Saturation present? Yes (includes capillary fringe)	No X Depth (inches): No X Depth (inches): No X Depth (inches): monitoring well, aerial photos, previous insp	Indicators of wetland hydrology present? Y pections), if available:		
Field Observations: Surface water present? Yes Water table present? Yes Saturation present? Yes (includes capillary fringe)	No X Depth (inches): No X Depth (inches): No X Depth (inches): monitoring well, aerial photos, previous insp	Indicators of wetland hydrology present? Y pections), if available:		
Field Observations: Surface water present? Yes Water table present? Yes Saturation present? Yes (includes capillary fringe)	No X Depth (inches): No X Depth (inches): No X Depth (inches): monitoring well, aerial photos, previous insp	Indicators of wetland hydrology present? Y pections), if available:		
Field Observations: Yes Surface water present? Yes Water table present? Yes Saturation present? Yes (includes capillary fringe)	No X Depth (inches): No X Depth (inches): No X Depth (inches): monitoring well, aerial photos, previous insp	Indicators of wetland hydrology present? Y pections), if available:		
Field Observations: Surface water present? Yes Water table present? Yes Saturation present? Yes (includes capillary fringe)	No X Depth (inches): No X Depth (inches): No X Depth (inches): monitoring well, aerial photos, previous insp	Indicators of wetland hydrology present? Y pections), if available:		

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50/20 Thresholds20%50%Tree Stratum00Sapling/Shrub Stratum00Herb Stratum2359Woody Vine Stratum00Dominance Test WorksheetNumber of DominantSpecies that are OBL,FACW, or FAC:1(A)Total Number of DominantSpecies Across all Strata:1Species Across all Strata:1(B)Percent of DominantSpecies that are OBL,FACW, or FAC:100.00%(A/B)Prevalence Index Worksheet100.00%Total % Cover of:0OBL species20x 1 =20FACW species90x 2 =180FAC species7x 3 =21FACU species0x 4 =0UPL species0x 5 =00x 5 =00x 5 =000117(A)221(B)Prevalence Index = B/A =1.89Hydrophytic Vegetation Indicators:Rapid test for hydrophytic vegetationXDominance test is >50%XPrevalence index is <3.0*Morphological adaptations* (provide
Tree Stratum00Sapling/Shrub Stratum00Herb Stratum2359Woody Vine Stratum00Dominance Test WorksheetNumber of DominantSpecies that are OBL,FACW, or FAC:1(A)Total Number of DominantSpecies Across all Strata:1Species Across all Strata:1(B)Percent of DominantSpecies that are OBL,FACW, or FAC:100.00%(A/B)Percent of DominantSpecies that are OBL,FACW, or FAC:100.00%(A/B)Prevalence Index WorksheetTotal % Cover of:OBL species20x 1 =20FACW species90x 2 =180FAC species7x 3 =21FACU species0x 5 =0Column totals117(A)221Prevalence Index = B/A =1.891.89Hydrophytic Vegetation Indicators:Rapid test for hydrophytic vegetationXDominance test is >50%XPrevalence index is <3.0*Morphological adaptations* (provide
Sapling/Shrub Stratum00Herb Stratum2359Woody Vine Stratum00Dominance Test WorksheetNumber of DominantSpecies that are OBL,FACW, or FAC:1(A)Total Number of DominantSpecies Across all Strata:1Species Across all Strata:1(B)Percent of DominantSpecies that are OBL,FACW, or FAC:100.00%(A/B)Percent of DominantSpecies that are OBL,FACW, or FAC:100.00%(A/B)Prevalence Index WorksheetTotal % Cover of:OBL species20x 1 =20FACW species90x 2 =180FAC species7x 3 =21FACU species0x 4 =0UPL species0x 5 =0Column totals117(A)221Prevalence Index = B/A =1.89Hydrophytic Vegetation Indicators:Rapid test for hydrophytic vegetationXDominance test is >50%XXPrevalence index is <3.0*
Herb Stratum2359Woody Vine Stratum00Dominance Test WorksheetNumber of DominantSpecies that are OBL,1FACW, or FAC:1FACW, or FAC:1Species Across all Strata:1BPercent of DominantSpecies that are OBL,FACW, or FAC:100.00%FACW, or FAC:100.00%Percent of DominantSpecies that are OBL,FACW, or FAC:100.00%OBL species20X 1 =20FACW species90X 2 =180FAC species7X 3 =21FACU species0X 5 =0Column totals117IT(A)Prevalence Index = B/A =1.89Hydrophytic Vegetation Indicators:Rapid test for hydrophytic vegetationXDominance test is >50%XPrevalence index is <3.0*
Woody Vine Stratum00Dominance Test WorksheetNumber of DominantSpecies that are OBL,FACW, or FAC:1(A)Total Number of DominantSpecies Across all Strata:1(B)Percent of DominantSpecies that are OBL,FACW, or FAC:100.00%(A/B)Percent of DominantSpecies that are OBL,FACW, or FAC:100.00%(A/B)Prevalence Index WorksheetTotal % Cover of:OBL species20Y 1 =20FACW species90X 2 =180FAC species7Y 3 =21FACU species0X 5 =0Column totals117(A)221Prevalence Index = B/A =1.89Hydrophytic Vegetation Indicators:Rapid test for hydrophytic vegetationXDominance test is >50%XPrevalence index is <3.0*
Dominance Test WorksheetNumber of DominantSpecies that are OBL,FACW, or FAC:1Total Number of DominantSpecies Across all Strata:1BPercent of DominantSpecies that are OBL,FACW, or FAC:100.00%FACW, or FAC:100.00%(A/B)Prevalence Index WorksheetTotal % Cover of:OBL species20X 1 =20FACW species90X 2 =180FAC species7X 3 =21FACU species0X 5 =0Column totals117(A)221Prevalence Index = B/A =1.89Hydrophytic Vegetation Indicators:Rapid test for hydrophytic vegetationXDominance test is >50%XPrevalence index is <3.0*
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Number of Dominant Species that are OBL, FACW, or FAC:1(A)Total Number of Dominant Species Across all Strata:1(B)Percent of Dominant Species that are OBL, FACW, or FAC:100.00%(A/B)Prevalence Index Worksheet Total % Cover of: OBL species100.00%(A/B)Prevalence Index Worksheet Total % Cover of: OBL species20x 1 =20FACW species90x 2 =180FAC species7x 3 =21FACU species0x 4 =0UPL species0x 5 =0Column totals117(A)221Prevalence Index = B/A =1.89Hydrophytic Vegetation Indicators: Rapid test for hydrophytic vegetation XPrevalence index is <3.0* Morphological adaptations* (provide
Species that are OBL,FACW, or FAC:1Total Number of DominantSpecies Across all Strata:1BPercent of DominantSpecies that are OBL,FACW, or FAC:100.00% (A/BPrevalence Index WorksheetTotal % Cover of:OBL species20X 1 =20FACW species90X 2 =180FAC species7X 3 =21FACU species0X 5 =0Column totals117117(A)Prevalence Index = B/A =1.89Hydrophytic Vegetation Indicators:Rapid test for hydrophytic vegetationXDominance test is >50%XPrevalence index is <3.0*
TACW, 01 FAC.ITotal Number of DominantISpecies Across all Strata:1Percent of DominantSpecies that are OBL,FACW, or FAC:100.00%Prevalence Index WorksheetTotal % Cover of:OBL species20X 1 =20FACW species90X 2 =180FAC species7X 3 =21FACU species0X 4 =0UPL species0X 5 =0Column totals117IT(A)Prevalence Index = B/A =1.89Hydrophytic Vegetation Indicators:Rapid test for hydrophytic vegetationXDominance test is >50%XPrevalence index is <3.0*
Note Provide ColombanSpecies Across all Strata:1(B)Percent of DominantSpecies that are OBL,FACW, or FAC:100.00% (A/BPrevalence Index WorksheetTotal % Cover of:OBL species20X 1 =20FACW species90X 2 =180FAC species7X 3 =21FACU species0X 4 =0UPL species0X 5 =0Column totals117(A)221Prevalence Index = B/A =1.89Hydrophytic Vegetation Indicators:Rapid test for hydrophytic vegetationXDominance test is >50%XPrevalence index is <3.0*
Percent of Dominant Species that are OBL, FACW, or FAC:100.00% (A/BPrevalence Index WorksheetTotal % Cover of: OBL species $20 \times 1 = 20$ FACW species $20 \times 2 = 180$ FAC speciesFAC species $7 \times 3 = 21$ FACU species $7 \times 3 = 21$ FACU species $7 \times 3 = 21$ FACU speciesFAC species $0 \times 4 = 0$ UPL species $0 \times 5 = 0$ Column totals 117 (A) 221 (B) Prevalence Index = B/A = 1.89Hydrophytic Vegetation Indicators: Rapid test for hydrophytic vegetation X Dominance test is >50% X Prevalence index is <3.0* Morphological adaptations* (provide)
Provention DominantSpecies that are OBL, FACW, or FAC:100.00% (A/BPrevalence Index WorksheetTotal % Cover of:OBL species20 $x 1 = 20$ FACW species90 $x 2 = 180$ FAC species7 $x 3 = 21$ FACU species0 $x 4 = 0$ UPL species0 $x 5 = 0$ Column totals117(A)Prevalence Index = B/A =1.89Hydrophytic Vegetation Indicators:Rapid test for hydrophytic vegetationXDominance test is >50%XPrevalence index is <3.0*
FACW, or FAC:100.00% (A/BPrevalence Index WorksheetTotal % Cover of:OBL species20 $x 1 = 20$ FACW species90 $x 2 = 180$ FAC species7 $x 3 = 21$ FACU species0 $x 4 = 0$ UPL species0 $x 5 = 0$ Column totals117 (A)221 (B)Prevalence Index = B/A =1.89Hydrophytic Vegetation Indicators:Rapid test for hydrophytic vegetationXDominance test is >50%XPrevalence index is <3.0*
Prevalence Index WorksheetTotal % Cover of:OBL species $20 \times 1 = 20$ FACW species $90 \times 2 = 180$ FAC species $7 \times 3 = 21$ FACU species $0 \times 4 = 0$ UPL species $0 \times 5 = 0$ Column totals 117 (A)Prevalence Index = B/A = 1.89Hydrophytic Vegetation Indicators:Rapid test for hydrophytic vegetationXDominance test is >50%XPrevalence index is <3.0*
Total % Cover of:OBL species $20 \times 1 = 20$ FACW species $90 \times 2 = 180$ FAC species $7 \times 3 = 21$ FACU species $0 \times 4 = 0$ UPL species $0 \times 5 = 0$ Column totals $117 (A) 221 (B)$ Prevalence Index = B/A = 1.89Hydrophytic Vegetation Indicators:Rapid test for hydrophytic vegetationXDominance test is >50%XPrevalence index is $\leq 3.0^*$ Morphological adaptations* (provide
OBL species20x 1 =20FACW species90x 2 =180FAC species7x 3 =21FACU species0x 4 =0UPL species0x 5 =0Column totals117(A)221Prevalence Index = B/A =1.89Hydrophytic Vegetation Indicators:Rapid test for hydrophytic vegetationXDominance test is >50%XPrevalence index is <3.0*
FACW species 90 x 2 = 180 FAC species 7 x 3 = 21 FACU species 0 x 4 = 0 UPL species 0 x 5 = 0 Column totals 117 (A) 221 Prevalence Index = B/A = 1.89 Hydrophytic Vegetation Indicators:Rapid test for hydrophytic vegetationXDominance test is >50%XPrevalence index is $\leq 3.0^*$ Morphological adaptations* (provide
FAC species 7 $x \ 3 =$ 21 FACU species 0 $x \ 4 =$ 0 UPL species 0 $x \ 5 =$ 0 Column totals 117 (A) 221 Prevalence Index = B/A = 1.89 Hydrophytic Vegetation Indicators:Rapid test for hydrophytic vegetationXDominance test is >50%XPrevalence index is $\leq 3.0^*$ Morphological adaptations* (provide
FACU species 0 $x 4 =$ 0 UPL species 0 $x 5 =$ 0 Column totals 117 (A) 221 Prevalence Index = B/A = 1.89 Hydrophytic Vegetation Indicators:Rapid test for hydrophytic vegetationXDominance test is >50%XPrevalence index is $\leq 3.0^*$ Morphological adaptations* (provide
UPL species 0 $x 5 =$ 0 Column totals 117 (A) 221 Prevalence Index = B/A = 1.89 Hydrophytic Vegetation Indicators:Rapid test for hydrophytic vegetationXDominance test is >50%XPrevalence index is $\leq 3.0^*$ Morphological adaptations* (provide
Column totals <u>117</u> (A) <u>221</u> (B) Prevalence Index = $B/A =$ <u>1.89</u> Hydrophytic Vegetation Indicators: Rapid test for hydrophytic vegetation <u>X</u> Dominance test is >50% <u>X</u> Prevalence index is <3.0* Morphological adaptations* (provide
Prevalence Index = $B/A = 1.89$ Hydrophytic Vegetation Indicators:Rapid test for hydrophytic vegetationXDominance test is >50%XPrevalence index is <3.0*
Hydrophytic Vegetation Indicators: Rapid test for hydrophytic vegetation X Dominance test is >50% X Prevalence index is ≤3.0* Morphological adaptations* (provide
Hydrophytic Vegetation Indicators: Rapid test for hydrophytic vegetation X Dominance test is >50% X Prevalence index is ≤3.0* Morphological adaptations* (provide
Rapid test for hydrophytic vegetation X Dominance test is >50% X Prevalence index is ≤3.0* Morphological adaptations* (provide
X Dominance test is >50% X Prevalence index is ≤3.0* Morphological adaptations* (provide
X Prevalence index is ≤3.0* Morphological adaptations* (provide
Morphological adaptations* (provide
inerprisiegies: adoptatione (premise
supporting data in Remarks or on a
separate sheet)
Problematic hydrophytic vegetation*
(explain)
*Indicators of hydric soil and wetland hydrology must be
present, unless disturbed or problematic
Definitions of Vegetation Strata:
Deminions of Vegetation Strata.
Tree - Woody plants 3 in. (7.6 cm) or more in diameter
breast height (DBH), regardless of height.
Sapling/shrub - Woody plants less than 3 in. DBH and
greater than 3.28 ft (1 m) tall.
Herb - All herbaceous (non-woody) plants, regardless
size, and woody plants less than 3.28 ft tall.
woody vines - All woody vines greater than 3.28 ft in height
noight
Hydrophytic
vegetation
present? Y
· <u> </u>
<u>.</u>
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SOIL							Sa	mpling Point: 41
Profile Des	cription: (Descri	ibe to th	e depth needed t	to docu	ment the	indicato	or or confirm the absence	e of indicators.)
Depth (Inches)	Matrix Color (moist)	%	the depth needed to document Redox Features Color (moist) % Typ		tures Type*	Loc**	Texture	Remarks
0-11	N2.5/	97	10YR 3/4	3	C	PL	mucky silty clay loam	
11-14	2.5Y 3/1	95	10YR 4/6	5	С	PL/M	silty clay	
14-21	5Y 5/2 2.5Y 8/1	85 5	10YR 5/6	10	С	PL/M	silty clay	marl inclusions
*Type: C=C	Concentration, D	=Deplet	ion, RM=Reduce	d Matri	x, CS=C	overed o	r Coated Sand Grains	
**Location: Hydric Soi	PL=Pore Lining,	, M=Mat	rix				Indicators for Prob	plematic Hydric Soils:
Histic Epipedon (A2) (S8) (LRR R, MLRA 149B) Black Histic (A3) Thin Dark Surface (S9) Hydrogen Sulfide (A4) (LRR R, MLRA 149B) Stratified Layers (A5) Loamy Mucky Mineral (F1) Depleted Below Dark Surface (A11) LOAMY Gleyed Matrix (F2) Sandy Mucky Mineral (S1) Depleted Matrix (F3) Sandy Redox (S5) Depleted Dark Surface (F7) Stripped Matrix (S6) Depleted Dark Surface (F7) Dark Surface (S7) (LRR R, MLRA Hattis (S6) Redox Depressions (F8) Dark Surface (S7) (LRR R, MLRA Hattis (S6) Redox Depressions (F8) Thindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic							at or Peat (S3) (LRR K, L, R) 57) (LRR K, L v Surface (S8) (LRR K, L) ice (S9) (LRR K, L) e Masses (F12) (LRR K, L, R) Iplain Soils (F19) (MLRA 149B) FA6) (MLRA 144A, 145, 149B) terial (F21) ark Surface (TF12) n Remarks) roblematic	
Restrictive Type: Depth (inch	Layer (if observe nes):	ed):			-		Hydric soil preser	nt? Y
Remarks: F1 indic	ator is likely n	net eve	en though a so	il test f	for orga	inic con	itent was not availab	е.

Project/Site: Jefferson Interurban Trail Phase 3	City/County:	Ixonia/Jeffer	rson Sampling Date: June 10, 20)22
Applicant/Owner: KL Engineering, Inc.		State: WI	Sampling Point: 4	2
Investigator(s): K. Sherfinski		Section, Tov	wnship, Range: S36, T8N, R16E	
Landform (hillslope, terrace, etc.): ditch shelf	Loc	cal relief (con	cave, convex, none): convex	
Slope (%): 2 Lat.: Long.	.:	Datum:		
Soil Map Unit Name Sebewa silt loam (Sm)			NWI Classification: none	
Are climatic/hydrologic conditions of the site typical for thi	s time of the year	? Yes	(If no, explain in remarks)	
Are vegetation, soil, or hydrology	significantl	y disturbed?	Are "normal	
Are vegetation, soil, or hydrology	naturally pr	roblematic?	circumstances" present?	Yes
(If needed, explain any answers in remarks)				

SUMMARY OF FINDINGS

Hydrophytic vegetation present? Hydric soil present?	Y	Is the sampled area within a wetland?	<u> </u>				
Indicators of wetland hydrology present?	N	If yes, optional wetland site ID:					
Remarks: (Explain alternative procedures here or in a separate report.)							

HYDROLOGY

		Secondary Indicators (minimum of two
Primary Indicators (minimum of one is requi	ired: check all that apply)	required)
Surface Water (A1)	Water Stained Leaves (R0)	Surface Soil Cracks (B6)
High Water Table (A2)	Aquetio Found (P12)	Drainage Detterna (B10)
High Water Table (A2)	Aqualic Faulia (B15)	Maga Trim Linea (B10)
Saturation (A3)	Man Deposits (B15)	Moss Trim Lines (B16)
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	Oxidized Rhizospheres on Living	Crayfish Burrows (C8)
Drift Deposits (B3)	Roots (C3)	Saturation Visible on Aerial Imagery
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)	(C9)
Iron Deposits (B5)	Recent Iron Reduction in Tilled	Stunted or Stressed Plants (D1)
Inundation Visible on Aerial	Soils (C6)	Geomorphic Position (D2)
Imagery (B7)	Thin Muck Surface (C7)	Shallow Aquitard (D3)
Sparsely Vegetated Concave	Other (Explain in Remarks)	X FAC-Neutral Test (D5)
Surface (B8)		Microtopographic Relief (D4)
		_
Field Observations:		
Surface water present? Yes	No X Depth (inches):	Indicators of
Water table present? Yes	No X Depth (inches):	wetland
Saturation present? Yes	No X Depth (inches):	hydrology
(includes capillary fringe)		present? N
		·
Describe recorded data (stream gauge, mo	nitoring well, aerial photos, previous inspec	ctions), if available:
Remarks:		
Approximately 3 feet in elevation his	oher than wetland Area is effectively	v drained by ditch

VEGETATION

						14
				50/20 Thresholds		
Tree Stratum Plot Size (30ft radius	Absolute	Dominant	Indicator		20% 50	0%
	/ % Cover	Species	Status	Tree Stratum	0	0
				Sapling/Shrub Stratum	0	0
				Herb Stratum	6 1	16
				Woody Vine Stratum	0	0
				Dominance Test Workshe	et	
				Number of Dominant		
				Species that are OBL,		
				FACW, or FAC:	1	_(A)
				Total Number of Dominant		
				Species Across all Strata:	1	_(B)
	=	Total Cover		Percent of Dominant		
				Species that are OBL,		
Sapling/Shrub	Absolute	Dominant	Indicator	FACW, or FAC:	100.00%	(A/B
Stratum Plot Size (30ft radius) % Cover	Species	Status			- `
		•		Brovalance Index Worksh	act	
					eel	
				Total % Cover of:		
				OBL species 0 x1	= 0	_
				FACW species 25 x 2	= 50	_
				FAC species 0 x 3	i = 0	_
				FACU species 7 x 2	. =28	_
				UPL species 0 x 5	b = 0	_
				Column totals <u>32</u> (A	78	_(B)
				Prevalence Index = B/A =	2.44	_
	0 =	 Total Cover 				
				Hydrophytic Vegetation I	ndicators:	
Herb Stratum Plot Size (5ft radius	Absolute	Dominant	Indicator	Rapid test for hydrophy	tic vegetation	n
	/ % Cover	Species	Status	X Dominance test is >50°	%	
Phalaris arundinacea	25	Y	FACW	X Prevalence index is ≤3	.0*	
Cirsium arvense	5	N	FACU	Morphological adaptati	ons* (provide	ә
Solidago altissima	2	Ν	FACU	supporting data in Rem	arks or on a	t i
				separate sheet)		
				Problematic hydrophyti	c vegetation*	*
				(explain)		
				*Indicators of hydric soil and wetl	and hydrology r	must b
				present, unless disturbed or prob	lematic	
				Definitions of Vegetation	Strata:	
				Tree - Woody plants 3 in. (7.6 cm	 or more in dia 	ameter
				breast height (DBH), regardless	or neight.	
				Sapling/shrub - Woody plants le	ss than 3 in. DF	BH and
				greater than 3.28 ft (1 m) tall.		
	32 =	Total Cover		C ()		
				Herb - All herbaceous (non-wood	ly) plants, regar	rdless
Woody Vine	Absolute	Dominant	Indicator	size, and woody plants less than	3.28 ft tall.	
Stratum Plot Size (30ft radius) % Cover	Species	Status			0.4 :
oradam		Opeoleo	Olaldo	woody vines - All woody vines g	reater than 3.20	.8 π In
				neight.		
				Hydrophytic		
				vegetation		
	0 =	Total Cover		present? Y	_	
				I		
	a arata ahaat)					
marks: (Include photo numbers here or on a se	Jarate sneet)					

SOIL								Sampling Point:	42
Profile Des	cription: (Descri	be to th	e depth needed	to docu	ment the	indicato	or or confirm the abse	ence of indicators.)	
(Inches)	Color (moist)	%	Color (moist)	юх геа %	Type*	1 00**	Texture	Remarks	S
0-8	10YR 2/1	100		70	Туре	LUC	silt loam		
0-0	1011(2/1	100					Silt Iodin		
8-17	2 5V 5/3	80	10VP 5/6	20	6	N/	sandy clay loam		
0-17	2.31 3/3	80	10110 3/0	20	0	IVI	Sanuy Clay Ioann		
17-20	N2 5/	100					silty clay loam	original soil laver	
17 20	112.0/	100					only only fourn		
*Type: C=C	oncentration, D	=Deplet	on, RM=Reduce	d Matri	x, CS=C	overed o	r Coated Sand Grain	IS	
**Location:	PL=Pore Lining	, M=Mat	rix						
Hydric Soi	Indicators:						Indicators for P	roblematic Hydric So	ils:
His His Bla Hyo Stra De Thi Sar Sar Sar Sar Sar 149 *Indicators	tosol (A1) tic Epipedon (A2 ck Histic (A3) drogen Sulfide (A atified Layers (A bleted Below Da ck Dark Surface ndy Mucky Mine ndy Gleyed Matr ndy Redox (S5) pped Matrix (S6 rk Surface (S7) (DB) of hydrophytic v	2) 5) rk Surfa (A12) ral (S1) ix (S4)) LRR R, egetatio	Poly (S8 Thin (LR Loa ce (A11) (LR Loa Dep Rec MLRA	yvalue I) (LRR n Dark : R R, M Imy Mur R K, L) imy Gle bleted N dox Dar bleted D dox Dep ydrolog	Below Su R, MLR/ Surface (LRA 149 cky Mine yed Matrix Matrix (F3 k Surfact Dark Surf pressions y must be	urface A 149B) (S9) B ral (F1) rix (F2) 8) e (F6) ace (F7) 5 (F8) e presen	2 cm Muck (Coast Prairie 5 cm Mucky Dark Surface Polyvalue Be Thin Dark Su Iron-Mangar Piedmont Fle Mesic Spodi Red Parent I Very Shallov Other (Expla	A10) (LRR K, L, MLRA Redox (A16) (LRR K, Peat or Peat (S3) (LRF (S7) (LRR K, L Nese Masses (S8) (LRR urface (S9) (LRR K, L) Nese Masses (F12) (LR oodplain Soils (F19) (M c (TA6) (MLRA 144A, 1 Material (F21) v Dark Surface (TF12) in in Remarks) r problematic	A 149B L, R) R K, L, R) R K, L, R) ILRA 149B) 145, 149B)
Restrictive Type: Depth (inch	Layer (if observe es):	ed):			-		Hydric soil pre	sent? <u>N</u>	
Likely fi	ll material fron	n the d	itch spoils was	s place	ed on to	p of the	e original soil layer	· .	

Project/Site: Jefferson Interurban T	rail Phase 3	City/County:	Ixonia/Jeffe	erson Sampling Date	: June 10, 2	022
Applicant/Owner: KL Engineering, In	С.	_	State: WI	Sampling F	Point:	43
Investigator(s): K. Sherfinski			Section, To	ownship, Range: S36, T	8N, R16E	
Landform (hillslope, terrace, etc.): toe	e of slope	Loc	al relief (co	ncave, convex, none):	concave	
Slope (%): 0-2 Lat.:	Long.:		Datum	:		
Soil Map Unit Name Sebewa silt loam (Sm)			NWI Classification: nor	ne	
Are climatic/hydrologic conditions of th	e site typical for this	s time of the year	? Yes	(If no, explain in remar	ks)	
Are vegetation, soil	, or hydrology	significantly	/ disturbed?	Are "normal		
Are vegetation , soil	, or hydrology	naturally pr	oblematic?	circumstances'	" present?	Yes
(If needed, explain any answers in rem	arks)					

SUMMARY OF FINDINGS

Hydrophytic vegetation present? Hydric soil present?	<u>Y</u> Y	Is the sampled area within a wetland? Y	
Indicators of wetland hydrology present?	Y	If yes, optional wetland site ID:	_
Remarks: (Explain alternative procedures h	nere or in a se	eparate report.)	

HYDROLOGY

		Secondary Indicators (minimum of two	
Primary Indicators (minimum of one is requ	required)		
Surface Water (A1)	Surface Soil Cracks (B6)		
High Water Table (A2)	Aquatic Fauna (B13)	Drainage Patterns (B10)	
Saturation (A3)	Marl Deposits (B15)	Moss Trim Lines (B16)	
X Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)	
Sediment Deposits (B2)	Oxidized Bhizospheres on Living	Cravfish Burrows (C8)	
Drift Deposits (B3)	Roots (C3)	Saturation Visible on Aerial Imagery	
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)	(C9)	
Iron Deposits (B5)	Recent Iron Reduction in Tilled	Stunted or Stressed Plants (D1)	
Inundation Visible on Aerial	Soils (C6)	X Geomorphic Position (D2)	
Imagery (B7)	Thin Muck Surface (C7)	Shallow Aquitard (D3)	
Sparsely Vegetated Concave	Other (Explain in Remarks)	X FAC-Neutral Test (D5)	
Surface (B8)		Microtopographic Relief (D4)	
Field Observations:			
Surface water present? Yes	No X Depth (inches):	Indicators of	
Water table present? Yes	No X Depth (inches):	wetland	
Saturation present? Yes	No X Depth (inches):	hydrology	
(includes capillary fringe)		present? Y	
Describe recorded data (stream gauge, mo	onitoring well, aerial photos, previous inspe	ctions), if available:	
Remarks:			

/EGETATION - Use scientific names of plant	s			Sampling Point: 43
				50/20 Thresholds
Tree Stratum Plot Size (30ft radius)	Absolute	Dominant	Indicator	20% 50%
Thee Stratum Flot Size (Soft Tadius)	% Cover	Species	Status	Tree Stratum 8 20
1 Ulmus americana	40	Y	FACW	Sapling/Shrub Stratum 7 18
2				Herb Stratum 24 61
3				Woody Vine Stratum 0 0
4				
5				Dominance Test Worksheet
6				Number of Dominant
7				Species that are OBL.
8				FACW or FAC: 3 (A)
9				Total Number of Dominant
0				Species Across all Strata: 3 (B)
	40 =	Total Cover		
				Percent of Dominant
	.			Species that are OBL,
Plot Size (30ft radius)	Absolute	Dominant	Indicator	FACW, or FAC: 100.00% (A/B)
Stratum	% Cover	Species	Status	
1 Rhamnus cathartica	30	Y	FAC	Prevalence Index Worksheet
2 Fraxinus pennsylvanica	5	N	FACW	Total % Cover of:
3				OBL species $17 \times 1 = 17$
۸				EACW species $\frac{125}{125} \times 2 = \frac{250}{250}$
۲ <u> </u>				$\frac{1}{23} \times 2 = \frac{230}{141}$
5				FAC species $\frac{47}{7}$ x 3 = $\frac{141}{29}$
0				FACU species $7 \times 4 = 28$
/				$\begin{array}{c} \text{UPL species} 0 \text{x 5} = 0 \\ \text{Ople species} -400 (\text{A}) = -400 (\text{B}) \\ \end{array}$
8				Column totals 196 (A) 436 (B)
9				Prevalence Index = $B/A = 2.22$
0				
	35 =	 Total Cover 		
				Hydrophytic Vegetation Indicators:
Horb Stratum Plot Sizo (5ft radius)	Absolute	Dominant	Indicator	Rapid test for hydrophytic vegetation
TIELD Stratum Flot Size (Sit ladids)	% Cover	Species	Status	X Dominance test is >50%
1 Phalaris arundinacea	70	Y	FACW	X Prevalence index is ≤3.0*
2 Solidago gigantea	10	N	FACW	Morphological adaptations* (provide
3 Apocynum cannabinum	10	N	FAC	supporting data in Remarks or on a
4 Carex stricta	10	N	OBL	separate sheet)
5 Lythrum salicaria	5	N	OBL	Problematic hydrophytic vegetation*
6 Equisetum arvense	5	N	FAC	(explain)
7 Vicia americana	5	N	FACU	*Indicators of hydric soil and wetland hydrology must be
8 Lycopus americanus	2	N	OBI	present unless disturbed or problematic
9 Persicaria maculosa	2	N	FAC	
0 Cirsium arvense	2	N	FACU	Definitions of Vegetation Strata:
1	<u> </u>		17,00	Definitions of Vegetation of ata.
2				Tree - Woody plants 3 in. (7.6 cm) or more in diameter at
2				breast height (DBH), regardless of height.
3				
4				Sapling/shrub - Woody plants less than 3 in. DBH and
5				greater than 3.28 ft (1 m) tall.
	121 =	 Total Cover 		Harb All borbassous (non woody) planta regardless of
				size and woody plants less than 3.28 ft tall
Woody Vine Plot Size (20ft radius)	Absolute	Dominant	Indicator	
Stratum	% Cover	Species	Status	Woody vines - All woody vines greater than 3.28 ft in
1				height.
2				
3				
4				
				Hydrophytic
5				vegetation
	0 =	 Total Cover 		present? Y
emarks: (Include photo numbers here or on a separa	ate sheet)			
Forested/emergent wetland Dead Fraxinus	s pennsvlvan	ica in the tree	e stratum	
r brottou, ombrigent wottand. Doud i ruxinat	pormoyrran		o otratam.	

SOIL							S	Sampling Point: 43
Drafile Daa		·						···· · · · · · · · · · · · · · · · · ·
Depth Matrix Redox Features								ice of indicators.)
(Inches)	Color (moist)	%	Color (moist)	%	Type*	Loc**	Texture	Remarks
0-12	10YR 2/1	98	10YR 3/6	2	C	PL	silty clay loam	
12-16	2.5Y 3/1	85	10YR 4/4	5	С	PL	silty clay	
	10YR 2/1	10						inclusions
16-22	5Y 5/2	85	5GY 5/1	10	D	М	silty clay	
			10YR 4/6	5	С	М		
*Tupo: C_C	Concontration D	-Doploti	on PM-Roduce	d Motri	× CS-C	avered o	r Coated Sand Grains	
**Location	PI =Pore Lining	M=Mat	rix	u main.	x, US=U	overed d	i Coaled Sand Grains	
Hydric Soi	I Indicators:	, 11-114					Indicators for Pro	oblematic Hydric Soils:
Histosol (A1) Polyvalue Below Surface 2 cm Muck (A10) (LRR K, L, MLRA 149B Histic Epipedon (A2) (S8) (LRR R, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) (LRR R, MLRA 149B Dark Surface (S7) (LRR K, L Stratified Layers (A5) Loamy Mucky Mineral (F1) Deleted Below Dark Surface (A11) (LRR K, L) X Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) Thin Dark Surface (S7) (LRR K, L, R) Sandy Mucky Mineral (S1) Depleted Matrix (F3) Piedmont Floodplain Soils (F19) (MLRA 1445 Sandy Redox (S5) Depleted Dark Surface (F7) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B Stripped Matrix (S6) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) *Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Restrictive Layer (if observed): Restrictive Layer (if observed):							10) (LRR K, L, MLRA 149B Redox (A16) (LRR K, L, R) Peat or Peat (S3) (LRR K, L, R) (S7) (LRR K, L ow Surface (S8) (LRR K, L) face (S9) (LRR K, L) ese Masses (F12) (LRR K, L, R) odplain Soils (F19) (MLRA 149B) (TA6) (MLRA 144A, 145, 149B) laterial (F21) Dark Surface (TF12) in Remarks) problematic	
Depth (inch	Depth (inches):							
remarks:								

Project/Site: Jefferson Interurban Trail Phase 3	3 City/County:	Ixonia/Jefferson	Sampling Date: June 10,	2022
Applicant/Owner: KL Engineering, Inc.		State: WI	Sampling Point:	44
Investigator(s): K. Sherfinski		Section, Township	o, Range: S36, T8N, R16E	
Landform (hillslope, terrace, etc.): hillslope	Loc	al relief (concave,	convex, none): convex	
Slope (%): 30 Lat.:	Long.:	Datum:		
Soil Map Unit Name Sebewa silt Ioam (Sm)		NWI C	Classification: none	
Are climatic/hydrologic conditions of the site typic	al for this time of the year?	Yes (If no,	explain in remarks)	
Are vegetation, soil, or hydro	logysignificantly	disturbed?	Are "normal	
Are vegetation, soil, or hydro	logy naturally pro	oblematic?	circumstances" present?	Yes
(If needed, explain any answers in remarks)				

SUMMARY OF FINDINGS

Hydrophytic vegetation present? Hydric soil present?	<u>N</u> N	Is the sampled area within a wetland?	<u>N</u>
Indicators of wetland hydrology present?	Ν	If yes, optional wetland site ID:	
Remarks: (Explain alternative procedures I	nere or in a se	eparate report.)	

HYDROLOGY

		Secondary Indicators (minimum of two
Deine and Indiantees (minimum of and is a see	in the share of the standard	Secondary indicators (minimum of two
Primary indicators (minimum of one is requ		
Surface Water (A1)	Water-Stained Leaves (B9)	Surface Soil Cracks (B6)
High Water Table (A2)	Aquatic Fauna (B13)	Drainage Patterns (B10)
Saturation (A3)	Marl Deposits (B15)	Moss Trim Lines (B16)
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Dry-Season Water Table (C2)
Sediment Deposits (B2)	Oxidized Rhizospheres on Living	Crayfish Burrows (C8)
Drift Deposits (B3)	Roots (C3)	Saturation Visible on Aerial Imagery
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)	(C9)
Iron Deposits (B5)	Recent Iron Reduction in Tilled	Stunted or Stressed Plants (D1)
Inundation Visible on Aerial	Soils (C6)	Geomorphic Position (D2)
Imagery (B7)	Thin Muck Surface (C7)	Shallow Aguitard (D3)
Sparsely Vegetated Concave	Other (Explain in Remarks)	FAC-Neutral Test (D5)
Surface (B8)		Microtopographic Relief (D4)
Field Observations:		
Surface water present? Yes	No X Depth (inches):	Indicators of
Water table present? Yes	No X Depth (inches):	wetland
Saturation present? Yes	No X Depth (inches):	hydrology
(includes capillary fringe)		nresent?
(includes capillary minge)		
Describe recorded data (stream gauge, me	nitoring wall parial photos, provious inspo	ctions) if available:
Describe recorded data (stream gauge, me	sintoning weil, aenai photos, previous inspec	
Domarka		
Approximately 6 feet in elevation h	igner than wetland.	

VEGETATION - Use scientific names of plant	s			Sampling Point: 44
Tree Stratum Plot Size(30ft radius)	Absolute % Cover	Dominant Species	Indicator Status	50/20 Thresholds20%50%Tree Stratum0Sapling/Shrub Stratum0Herb Stratum2870
3				Woody Vine Stratum 0 0
4 5 6 7 8 9				Dominance Test Worksheet Number of Dominant Species that are OBL, FACW, or FAC: 0 Total Number of Dominant Species and Parates Species of Dominant
	0 =	Total Cover		Percent of Dominant
Sapling/Shrub Plot Size(30ft radius) Stratum	Absolute % Cover	Dominant Species	Indicator Status	Species that are OBL, FACW, or FAC: 0.00% (A/B)
1				Prevalence Index WorksheetTotal % Cover of:OBL species 0 X 1 = 0 FACW species 0 X 2 = 0 FAC species 2 X 3 = 6 FACU species 93 X 4 = 372 UPL species 45 X 5 = 225 Column totals 140 (A) 603 Prevalence Index = $B/A =$ 4.31
	0 =	Total Cover		Hydrophytic Vegetation Indicators:
Herb Stratum Plot Size (5ft radius) 1 Poa pratensis 2 Bromus inermis 3 Carduus nutans 4 Pastinaca sativa 5 Verbena urticifolia 6 Silene vulgaris 7	Absolute % Cover 90 40 3 2 2 2	Dominant Species Y Y N N N N	Indicator Status FACU UPL FACU UPL FAC UPL	Rapid test for hydrophytic vegetation Dominance test is >50% Prevalence index is ≤3.0* Morphological adaptations* (provide supporting data in Remarks or on a separate sheet) Problematic hydrophytic vegetation* (explain) *Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic
10 11 12				Definitions of Vegetation Strata: Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height
13 14				Sapling/shrub - Woody plants less than 3 in. DBH and
	140 =	Total Cover		Herb - All herbaceous (non-woody) plants, regardless of
Woody Vine Plot Size(30ft radius) 12	Absolute % Cover	Dominant Species	Indicator Status	size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height.
3				
5	0=	Total Cover		Hydrophytic vegetation present? <u>N</u>
Remarks: (Include photo numbers here or on a separa Old field.	ite sheet)			1

SOIL								Sampling Point: 44
Profile Des	cription: (Descri	be to th	e depth needed	to docu	ment the	indicato	or or confirm the abso	ence of indicators.)
(Inches)	Color (moist)	%	Color (moist)	iox real %	Tvpe*	l oc**	Texture	Remarks
0-9	10YR 3/2	100		70	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	200	loam	
*Type: C=C	Concentration, D	=Depleti	ion, RM=Reduce	ed Matrix	x, CS=C	overed o	r Coated Sand Grain	ns
**Location:	PL=Pore Lining,	M=Mat	rix					
Hydric Sol	Indicators:						Indicators for F	Problematic Hydric Soils:
His His Bla Hyo Stra De Thi Sau Sau Sau Sau Sau Sau Sau Sau Sau Sau	Histosol (A1) Polyvalue Below Surface 2 cm Muck (A10) (LRR K, L, MLRA 149E Histic Epipedon (A2) (S8) (LRR R, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) 5 cm Mucky Peat or Peat (S3) (LRR K, L) Hydrogen Sulfide (A4) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L) Depleted Below Dark Surface (A11) Loamy Mucky Mineral (F1) Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Loamy Gleyed Matrix (F2) Iron-Manganese Masses (F12) (LRR K, L) Sandy Mucky Mineral (S1) Depleted Dark Surface (F6) Mesic Spodic (TA6) (MLRA 144A, 145, 14) Sandy Redox (S5) Depleted Dark Surface (F7) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Other (Explain in Remarks) Other (Explain in Remarks)						(A10) (LRR K, L, MLRA 149B e Redox (A16) (LRR K, L, R) ' Peat or Peat (S3) (LRR K, L, R) e (S7) (LRR K, L elow Surface (S8) (LRR K, L) urface (S9) (LRR K, L) nese Masses (F12) (LRR K, L, R) loodplain Soils (F19) (MLRA 149B ic (TA6) (MLRA 144A, 145, 149B) Material (F21) w Dark Surface (TF12) ain in Remarks) or problematic	
Type: <u>c</u> Depth (inch	ravel fill les): 9				-		Hydric soil pre	esent? N
Remarks: Refusal	at 9 inches du	ue to s	olid gravel fill.					

Project/Site: Jefferson Interurban Trail Phase	3 City/County:	Ixonia/Jefferson	Sampling Date: June 10,	2022
Applicant/Owner: KL Engineering, Inc.		State: WI	Sampling Point:	45
Investigator(s): K. Sherfinski		Section, Township	, Range: S36, T8N, R16E	
Landform (hillslope, terrace, etc.): swale	Loc	al relief (concave,	convex, none): concave	
Slope (%): 0-2 Lat.:	Long.:	Datum:		
Soil Map Unit Name Sebewa silt loam (Sm)		NWI C	Classification: none	
Are climatic/hydrologic conditions of the site typic	cal for this time of the year?	Yes (If no,	explain in remarks)	
Are vegetation, soil, or hydro	ologysignificantly	disturbed?	Are "normal	
Are vegetation, soil, or hydro	plogy naturally pro	oblematic?	circumstances" present?	Yes
(If needed, explain any answers in remarks)				

SUMMARY OF FINDINGS

Hydrophytic vegetation present? Hydric soil present?	<u>Y</u> Y	Is the sampled area within a wetland?
Indicators of wetland hydrology present?	Y	If yes, optional wetland site ID:
Remarks: (Explain alternative procedures	here or in a se	eparate report.)

HYDROLOGY

Primary Indicators (minimum of one is requ Surface Water (A1) X High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	uired; check all that apply) X Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots (C3)	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) X Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery
Algal Mat or Crust (B4) Iron Deposits (B5)	Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6)	(C9) Stunted or Stressed Plants (D1) X Geomorphic Position (D2)
Imagery (B7) Sparsely Vegetated Concave Surface (B8)	Thin Muck Surface (C7) Other (Explain in Remarks)	Shallow Aquitard (D3) X FAC-Neutral Test (D5) Microtopographic Relief (D4)
Field Observations:Surface water present?YesWater table present?YesXXSaturation present?Yes(includes capillary fringe)	No X Depth (inches): No Depth (inches): 11 No Depth (inches): At surface	Indicators of wetland hydrology present? Y
Describe recorded data (stream gauge, mo	onitoring well, aerial photos, previous inspec	tions), if available:
Remarks: Swale discharges into creek and g	oes through culvert under utility acces	ss drive.
VEGETATION - Use scientific names of plants

Tree Stratum Plot Size (30ft radius) Absolute Dominant Indicator Solid rigga 30 Y OBL Satura Status Satura Status Ourcruis macrocarpa 10 Y FACU Satura Status Satura Status Acer regundo 10 Y FACU Satura Status Sa	EGETATION - Use scientific names of plant	is			Sampling Point: 45
Tree Stratum Plot Size (30ft radius) Absolute Dominant Indicator 20% 50% Salki ngra 30 Y FAC OBL Tree Stratum 10 25 Cuercus macrocarpa 10 Y FAC Herb Stratum 1 3 Deminant species 511 Y FAC Herb Stratum 1 3 Dominant species that are OBL, FAC FACW, or FAC: 5 (a) Sapling/Shrub Plot Size (30ft radius) % ECover Species that are OBL, FACW, or FAC: 53.33% (A) Stratum Plot Size (30ft radius) % ECover Species that are OBL, FACW, or FAC: 53.33% (A) Stratum Plot Size (30ft radius) % ECover Species 513 X = 87 True Microson Stratum Plot Size (5ft radius) % Ecover Species 74 40 UPL species Total Korehoet Total Species that are OBL, FACW, or FAC: 72 26 FAC Species Statum Prevalence Index Worksheet Total Species Status 74 40 10 Y FAC 72 26 72 <td< th=""><th></th><th></th><th></th><th></th><th>50/20 Thresholds</th></td<>					50/20 Thresholds
Intermediation Product of Nature 1 Status 3 Status 3 Status 4 Species 5 Status 7 Species 5	Trop Stratum Plot Size (30ft radius)	Absolute	Dominant	Indicator	20% 50%
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Image: constraint of the stratumConstraint of the stratumConstrate stratumConstr					Total % Cover of:
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Carex vulpinoidea 5 N OBL supporting data in Remarks or on a Rhamnus cathartica 5 N FAC Persicaria maculosa 3 N FAC Carex grayi 3 N FAC Lycopus americanus 2 N OBL Ranunculus hispidus 1 N FAC Problematic hydrophytic vegetation* (explain) "Indicators of hydric soil and wetland hydrology mus present, unless disturbed or problematic Problematic hydrophytic vegetation Strata: Tree · Woody plants 3 in. (7.6 cm) or more in diame breast height (DBH), regardless of height. Sapling/shrub · Woody plants less than 3 in. DBH a greater than 3.28 ft (1m) tall. Woody Vine Stratum Plot Size (30ft radius) % Cover Species Y FAC Y FAC Woody Vine Plot Size (30ft radius) % Cover Y Y FAC Herb · All woody vines greater than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft tall. Source Y	Phaiaris arundinacea	10	<u> </u>	FACW	Morphological adaptations [*] (provide
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	Vitis riparia	5	Y	FAC	height.
					Hydrophytic
Forested/emergent wetland. Dead <i>Fraxinus pennsylvanica</i> in the tree stratum.					vegetation
marks: (Include photo numbers here or on a separate sheet) Forested/emergent wetland. Dead <i>Fraxinus pennsylvanica</i> in the tree stratum.		5	= Total Cover		present? Y
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orested/emergent wetland. Dead Fraxinus pennsylvanica in the tree stratum.					
	narks: (Include photo numbers here or on a separa	ate sheet)			
	marks: (Include photo numbers here or on a separa Forested/emergent wetland. Dead <i>Fraxinus</i>	ate sheet) : pennsylvan	nica in the tree	e stratum.	

SOIL								Sampling Point	: 45
Profile Description: (Describe to the depth needed to document the indicat							or or confirm the abse	ence of indicators	i.)
(Inches)	Color (moist)	%	Color (moist)	%	Type*	Loc**	Texture	Re	emarks
0-14	10YR 2/1	90	10YR 3/6	10	C	PL	mucky clay loam		
14-20	10YR 5/2	95	10YR 3/6	5	С	М	sandy clay loam		
*** 0.0									
**Location	PI =Pore Lining	Deplet= M=Mat	ion, RM=Reduce trix	ed Matri	x, CS=C	overed c	or Coated Sand Grain	IS	
Hydric Soi	I Indicators:	IVI—IVIA					Indicators for F	Problematic Hydr	ric Soils:
-								-	
His	tosol (A1)		Poly	yvalue l	Below Su		2 cm Muck ((A10) (LRR K, L ,	
Bla	ck Histic (A3)	-)	(30 Thi	n Dark :	K, WLK/ Surface ((S9)	5 cm Muckv	Peat or Peat (S3	3) (LRR K. L. R)
Hyd	drogen Sulfide (A	\ 4)	(LR	RR, M	LRA 149)B	Dark Surfac	e (S7) (LRR K, L	, (,,,,,,,,,
Stra	atified Layers (A	5)	Loa	my Mu	cky Mine	eral (F1)	Polyvalue B	elow Surface (S8)) (LRR K, L)
	pleted Below Da	rk Surfa	ace (A11 <u>) X (</u> LR	R K, L)) wod Mati	riv (E2)	I hin Dark S	urface (S9) (LRR	(IRPKIR)
Sar	ndy Mucky Mine	ral (S1)		oleted N	Aatrix (F3	3)	Piedmont Fl	loodplain Soils (F	19) (MLRA 149B)
Sar	ndy Gleyed Matr	ix (S4)	X Rec	dox Dar	k Surfac	e (F6)	Mesic Spod	ic (TA6) (MLRA 1	44A, 145, 149B)
Sar	ndy Redox (S5)	`	Dep	oleted D	Dark Surf	ace (F7)	Red Parent	Material (F21)	
Stri	ipped Matrix (S6 rk Surface (S7) () I RR R.		ox Dep	pressions	6 (F8)	Other (Expla	N Dark Surface (1	(F1Z)
149	9 B)	,					e titel (_/pie		
*Indicators	of hydrophytic v	egetatio	on and wetland hy	ydrolog	y must b	e preser	nt, unless disturbed o	or problematic	
Restrictive	Layer (if observe	ed):							
Type:					_		Hydric soil pre	esent? Y	
Depth (inch	<pre>ptn (incnes):</pre>								
Remarks:									
F1. indi	cator likely me	et even	though a soil	test fo	r organ	ic conte	ent was not availa	be.	