CLEAN WATER ACT COMPLIANCE INSPECTION
U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION 5

Purpose:
Determine compliance with the Clean Water Act

Facility:
Legend Farms Dairy, LLC
Ex. 6.(Personal Privacy)
[redacted]
Kewaunee County
FOIA Ex. 6 (Personal Priacy)
[redacted]

NPDES Permit Number:
None

Date of Inspection: April 20, 2017 - April 21, 2017

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None

Inspector Signature: _____

Approver Title: Ryan Bahr, Section 2 Chief, Water Enforcement and Compliance Assurance Branch

Approval Signature: _____

Approval Date: 5/16/18

On April 20, 2017, EPA conducted an unplanned reconnaissance inspection along the public road right-of-ways near Legend Farms Dairy, LLC (Facility). EPA was there to observe whether the alleged discharges observed on May 26, 2016 had been remedied as claimed by the photographs [redacted] e-mailed to Kevin Chow, EPA Office of Regional Counsel on August 25, 2016. Upon their arrival at approximately 8:30 AM, EPA inspectors observed two discharges off of the west and east sides of the silage pad into the roadside ditches as documented in photo numbers P4200017-P4200026. One flow path originated on the west side of the silage pad and flowed southwest to the roadside ditch along the north side of County Road F. The second flow path originated on the east side of the silage pad and discharged off of the east side of the silage pad and into the roadside ditch along the west side of Lilac Lane and continued to flow south into County Road F roadside ditch. EPA observed that feed and surface runoff (process wastewater) from the silage pad was discharging in the flow paths. EPA also observed that Lilac Lane was the high point in the surrounding terrain and all liquid in the roadside ditch appeared to originate from the Facility. The process wastewater flowed through two culverts along County Road F as identified in this report as 1st driveway west of Lilac Lane and 2nd driveway west of Lilac Lane. The process wastewater flowed through the culvert under the 2nd driveway west of Lilac Lane and into a tile inlet as documented in photo P4200019.

EPA observed an additional tile riser located in a swale on the south side of County Road F documented in photo numbers P4200027 - P4200031. EPA believed that this may have been the outlet location of tile inlet on the north side of County Road F. EPA collected samples at the culvert outlet located on the south side of County Road F and documented sample collection in photo number P4200031. EPA lists the samples collected, parameters that were analyzed and the results in Attachment A. In an attempt to confirm that the sampling location had been correct, EPA contacted the Wisconsin Department of Natural Resources (WDNR). WDNR agreed to meet EPA on April 21, 2017 along County Road F and show EPA where the tile would outlet.

On April 20, 2017 at approximately 12:00 PM, EPA drove to the Kewaunee County Highway Office to inquire where the public road right-of-ways are located along County Road F. The Kewaunee Highway Commissioner brought up on his computer the location of where EPA wanted to collect samples and explained that from the center of the line on County Road F, the public road right-of-way extends 50 feet from the center of the road. The Highway Commissioner printed EPA a map with the public road right-of-ways (Attachment D).

On April 21, 2017 at approximately 11:00 AM, WDNR met EPA along County Road F and identified the tile outlet location for the tile inlet located on the north side of County Road F south of Legend Farms Dairy, LLC as documented in photos P4210068 – P4210071. EPA measured the distance from the center of County Road F to verify that EPA was within the 50 feet of the public road right-of way and collected samples as documented in photo numbers P4210064-P4210067. EPA also collected a sample prior to the process wastewater entering the tile inlet located on the north side of County Road F in the roadside ditch on the same side of the road as Legend Farms Road, LLC as documented in photo numbers P4210083-P4210088. EPA again measured the distance from the center of the road to where the discharge flowed into the tile inlet and confirmed that EPA was within the public road right-of-way as documented in

P4210082. After collecting samples EPA left the area and headed to a nearby gas station to preserve the samples and write out the chain of custody.

EPA's purpose for collecting samples along the public road right-of-way of County Road F and Lilac Lane on April 20 and 21 was to determine whether pollutants were discharging from the Legend Farms Dairy, LLC production area.

Attachment A Sample Results

Sample ID	Sample Description (all liquid samples unless otherwise noted)	Date of the sample collection	Biochemical Oxygen Demand (mg/L)	Total Kjeldahl Nitrogen (mg/L)	Nitrate-Nitrite N (mg/L)	Ammonia as N (mg/L)	Total Phosphorus (mg/L)	Total Dissolved Solids (mg/L)	Total Suspended Solids (mg/L)	Fecal Coliform (CFU/100ml)
	Typical limits				*0.1**		*.075****			*200***
S01	Liquid	April 20, 2017	149	11.3	1.78	4.78	4.48	NA	NA	32,000
S01-A	Liquid	April 21, 2017	12.0	3.57	13.8	1.00	1.31	492	6.4	NA
S02-A	Liquid	April 21, 2017	715	67.4	1.49	50.7	18.6	1540	302	5700
B01	Liquid	April 20, 2017	No blank	0.43	U	U	U	NA	NA	NA

U = Not Detected

In Wisconsin, there are no Water Quality Standards for Biochemical Oxygen Demand, Total Kjeldahl Nitrogen, Nitrate-Nitrite, Ammonia as Nitrogen, Total Dissolved Solids and Total Suspended Solids but a limit for Nitrate-Nitrite is provided and is meant to be a benchmark for comparison only.

* Maximum Nitrate-Nitrite amount for aquatic life (North Carolina State University Water Quality Group)

**Maximum Total Phosphorus limit for all other unidirectional streams/rivers not listed in Chapter NR 102.6 (3) (a) of Wisconsin Administrative Code.

***Although there are no effluent limits for CAFOs, the limit in Wisconsin for Fecal Coliform in a stream for general use is 200 colonies/100ml. (Chapter NR 102, Water Quality Standards for Wisconsin Surface Waters, November 2010 of the Wisconsin Administrative Code.)

- The Fecal Coliform results were analyzed by Pace Analytical Services, Inc., 1241 Bellevue Street, Suite 9, Green Bay, WI 54302.
- Ammonia Nitrogen, Total Phosphorus, Nitrate-Nitrite, Dissolved Solids (TDS), Total Suspended Solids (TSS), Total Kjeldahl Nitrogen (TKN), and Biochemical Oxygen Demand (BOD) were analyzed by the Region 5 Chicago Regional Laboratory.

ATTACHMENT B

Olympus Corporation

TG-4

Photos on April 20, 2017 from P4200021 – P4200031- are approximately one hour later than what is documented in the meta data of the camera.

Photos on April 21, 2017 from P42100064 – P421000154 are approximately one hour earlier than what is documented in the meta data of the camera.

Photo Number: P4200017

Description: Arrows in the photo depict the direction of flow of the two process wastewater pathways as they converge and flow through the culvert that runs under the 2nd driveway west of Lilac Lane.

Location: On County Road F, east of the 2nd driveway west of Lilac Lane.

Facing: Northwest

Date/Time: April 20, 2017 at 8:30 AM

Photo Number: P4200018

Description: Arrows in the photo depict the direction of the process wastewater pathways as they converge and flow through the culvert that runs under the 2nd driveway west of Lilac Lane.

Location: On County Road F, east of the 2nd driveway west of Lilac Lane.

Facing: Northwest

Date/Time: April 20, 2017 at 8:30 AM

Photo Number: P4200019

Description: EPA observed the process wastewater flowing off of the west side of the silage pad and flowing to the southwest through the grass depicted by the arrows. The flow of the process wastewater continues through the culvert under the 2nd driveway west of Lilac Lane discharging into the tile inlet.

Location: On County Road F, west of the 2nd driveway west of Lilac Lane on County Road F.

Facing: Northeast

Date/Time: April 20, 2017 at 8:31 AM

Photo Number: P4200020

Description: EPA observed the process wastewater that flowed off of the west side of silage pad and flowed southwest through the grassy area depicted by the arrows in the photo. The process wastewater flows through the culvert under the 2nd driveway west of Lilac Lane to the west and discharges into the tile inlet.

Location: West of the 2nd driveway west of Lilac Lane on County Road F.

Facing: Northeast

Date/Time: April 20, 2017 at 8:31 AM

Photo Number: P4200021

Description: EPA observed the process wastewater that discharged off of the silage pad to the east into the roadside ditch on the west side of Lilac Lane and flowed south toward County Road F as depicted by the arrows in the photo. The flow continues to the south around the bend flowing west in the roadside ditch along the north side of County Road F.

Location: On County Road F at the intersection of County Road F and Lilac Lane

Facing: North

Date/Time: April 20, 2017 at 7:35 AM

Photo Number: P4200022

Description: EPA observed process wastewater flowing west in the roadside ditch on the north side of County Road F. The arrows depict the direction of flow of the process wastewater in the roadside ditch. The process wastewater continues to flow west through the culvert under the 1st driveway west of Lilac Lane.

Location: On County Road F at the intersection of Lilac Lane and County Road F.

Facing: West

Date/Time: April 20, 2017 at 7:35 AM

Photo Number: P4200023

Description: EPA observed process wastewater discharging off of the east side of the silage pad into the roadside ditch west of Lilac Lane. The process wastewater flows south into the roadside ditch north of County Road F as depicted by the arrows in the photo.

Location: On County Road F at the intersection of County Road F and Lilac Lane.

Facing: North

Date/Time: April 20, 2017 at 7:35 AM

Photo Number: P4200024

Description: EPA observed process wastewater flowing through the culvert under the 1st driveway west of Lilac Lane and continuing to flow west toward the 2nd culvert that runs under the 2nd driveway west of Lilac Lane.

Location: On County Road F, east of the 1st driveway west of Lilac Lane on County Road F.

Facing: West

Date/Time: April 20, 2017 at 7:35 AM

Ex. 6.(Personal Privacy) [redacted]

Photo Number: P4200025

Description: EPA observed the two flow pathway discharging off of the silage pad converge and flow through the culvert under the 2nd driveway west of Lilac Lane on the north side of County Road F. Arrows depict the convergence of the two flow pathways of process wastewater.

Location: On County Road F, east of the 2nd driveway west of Lilac Lane.

Facing: Northwest

Date/Time: April 20, 2017 at 7:36 AM

Ex. 6.(Personal Privacy) [redacted]

Photo Number: P4200026

Description: EPA observed process wastewater that discharged off of the silage pad converge and flow through the culvert under the 2nd driveway west of Lilac Lane. Arrows depict the convergence of the process wastewater.

Location: On County Road F, east of the 2nd driveway west of Lilac Lane.

Facing: Northwest

Date/Time: April 20, 2017 at 7:36 AM

Photo Number: P4200027

Description: Culvert outlet on the south side of County Road F.

Location: On the public road right-of-way at the culvert outlet on the south side of County Road F and adjacent to Legend Farms Dairy, LLC.

Facing: Down

Date/Time: April 20, 2017 at 7:38 AM

Photo Number: P4200028

Description: Tile riser located on south side of County Road F.

Location: On public road right-of-way, adjacent to Legend Farms Dairy, LLC on the south side of County Road F.

Facing: NA

Date/Time: April 20, 2017 at 7:38 AM

Photo Number: P4200029
Description: Tile riser located on south side of County Road F.
Location: On public road right-of-way, adjacent to Legend Farms Dairy, LLC on the south side of County Road F.
Facing: Southwest
Date/Time: April 20, 2017 at 7:40 AM

Photo Number: P4200030

Description: Tile riser located on south side of County Road F.

Location: On public road right-of-way, adjacent to Legend Farms Dairy, LLC on the south side of County Road F.

Facing: Southwest

Date/Time: April 20, 2017 at 7:40 AM

Photo Number: P4200031

Description: Sample S01 collected at the culvert outlet on the south side of County Road F.

Location: On the public road right of way, adjacent to Legend Farms Dairy, LLC south side of County Road F (Attachment B).

Facing: Down

Date/Time: April 20, 2017 at 7:41 AM

Photo: P421000064

Description: WDNR met EPA on County Road F and showed EPA that near the rebar in the photo was where the tile inlet located west of 2nd driveway west of Lilac Lane on the north side of County Road F outlets into the roadside ditch along the south side of County Road F. Flow is coming up from the tile outlet and flow is also coming in from the southeast and east from a swale.

Location: On the public road right-of-way approximately 1200 feet east of County Road B on the south side of County Road F as measured from ArcMap.

Facing: Southeast

Date/Time: 4/21/2017 at 10:18 AM

Photo: P4210065

Description: Sample S01-A - Collected near the rebar in the photo.

Location: On the public road right-of-way, approximately 1200 feet east of County Road B on the south side of County Road F.

Facing: south

Date/Time: 4/21/2017 at 10:18 AM

Photo: P4210066

Description: Sample S01-A

Location: On the public road right-of-way approximately 1200 feet east of County Road B on the south side of County Road F.

Facing: NA

Date/Time: 4/21/2017 at 10:18 AM

Photo: P4210067

Description: Sample S01-A

Location: On the public road right-of-way, approximately 1200 feet east of County Road B on the south side of County Road F.

Facing: Down

Date/Time: 4/21/2017 at 10:19 AM

Photo: P4210068

Description: Sample S01-A was collected near rebar post.

Location: On the public road right-of-way, approximately 1200 feet east of County Road B on the south side of County Road F.

Facing: Northwest

Date/Time: 4/21/2017 at 10:19 AM

Photo: P4210069

Description: Sample S01-A was collected near rebar.

Location: On public road right-of-way, approximately 1200 feet east of County Road B on the south side of County Road F.

Facing: Northwest

Date/Time: 4/21/2017 at 10:19 AM

Photo: P4210070

Description: Photograph was taken to show the ripples near the rebar in the water which was identified by WDNR as the location where the tile outlet was located. Blue arrow is pointing to ripples in the water.

Location: On public road right-of-way, approximately 1200 feet east of County Road B on the south side of County Road F

Facing: Northwest

Date/Time: 4/21/2017 at 10:19 AM

Photo: P4210071

Description: Blue arrow in photograph shows the ripples where WDNR identified the location of the tile outlet near the rebar.

Location: On public road right-of-way, approximately 1200 feet east of County Road B on the south side of County Road F.

Facing: Northwest

Date/Time: 4/21/2017 at 10:19 AM

Photo: P4210072

Description: EPA observed process wastewater discharging off of the east side of the silage pad into the roadside ditch west of Lilac Lane. The process wastewater flows south into the roadside ditch north of County Road F.

Location: On County Road F at the intersection of Lilac Lane and County Road F.

Facing: North

Date/Time: 4/21/2017 at 10:34 AM

Photo: P4210073

Description: EPA observed the process wastewater flowing west in the roadside ditch north of County Road F toward the culvert that runs under the 1st driveway west of Lilac Lane.

Location: On County Road F at the corner of Lilac Lane and County Road F.

Facing: West

Date/Time: 4/21/2017 at 10:34 AM

Photo: P4210074

Description: EPA observed process wastewater flowing west in the roadside ditch north of County Road F through the culvert under the 1st driveway west of Lilac Lane. Arrow depicts direction of flow.

Location: On County Road F, east of the 1st driveway west of Lilac Lane.

Facing: Northwest

Date/Time: 4/21/2017 at 10:35 AM

Photo: P4210075

Description: EPA observed process wastewater flowing west through the culvert outlet on west side of the 1st driveway west of Lilac Lane. The red arrow depicts the direction of flow.

Location: On County Road F at the 1st driveway west of Lilac Lane.

Facing: North

Date/Time: 4/21/2017 at 10:35 AM

Photo: P4210076

Description: EPA observed the flow of process wastewater off of the west side of the silage pad and the process wastewater flowing west in the roadside ditch north of County Road F converge and flow through the culvert that runs under 2nd driveway west of Lilac Lane. Arrows depict the direction of flow from both process wastewater pathways as they converge and flow through the culvert.

Location: On County Road F, east side of 2nd driveway west of Lilac Lane.

Facing: Northwest

Date/Time: 4/21/2017 at 10:35 AM

Photo: P4210077

Description: EPA observed the flow of the process wastewater off of west side of the silage pad and in the roadside ditch north of County Road F converge and flow through the culvert under 2nd driveway west of Lilac Lane. Arrows depict the direction of flow for both of the process wastewater pathways and show as they converge and flow through the culvert.

Location: On the County Road F, east of the 2nd driveway west of Lilac Lane.

Facing: Northwest

Date/Time: 4/21/2017 at 10:35 AM

Photo: P4210078

Description: EPA observed the two process wastewater pathways off of the east and west side of the silage pad flow through the culvert under 2nd driveway west of Lilac Lane. Arrows depict the direction flow of the process wastewater.

Location: On County Road F, east side of the 2nd driveway west of Lilac Lane

Facing: North

Date/Time: 4/21/2017 at 10:35 AM

Photo: P4210079

Description: EPA observed the two process wastewater pathways one from the west side of the silage pad and one pathway from the east side of the silage pad flowing west on north side of County Road F converge and flow through the culvert under the 2nd driveway west of Lilac Lane.

Location: On County Road F, east side of 2nd driveway west of Lilac Lane.

Facing: Northeast

Date/Time: 4/21/2017 at 10:35 AM

Photo: P4210080

Description: EPA observed the process wastewater flowing through the culvert under the 2nd driveway west of Lilac Lane into the tile inlet on the north side of County Road F. Arrow depicts the flow of process wastewater through the culvert under the 2nd driveway west of Lilac Lane.

Location: On County Road F west side of the 2nd driveway west of Lilac Lane.

Facing: North

Date/Time: 4/21/2017 at 10:36 AM

Photo: P4210081

Description: EPA observed the process wastewater flowing through the culvert under the 2nd driveway west of Lilac Lane into the tile inlet on the north side of County Road F.

Location: On County Road F west of 2nd driveway west of Lilac Lane.

Facing: West

Date/Time: 4/21/2017 at 10:36 AM

Photo: P4210082

Description: EPA measured from the center of County Road F to the tile inlet west of the 2nd driveway west of Lilac Lane and north of County Road F. EPA used a measuring tape to measure the distance to the tile inlet to show that they were within the public road right-of-way. The measuring taped showed 41 feet.

Location: On County Road F.

Facing: Down

Date/Time: 4/21/2017 at 12:06 PM

Photo: P4210083

Description: Sample S02- Culvert outlet on the west side of 2nd driveway west of Lilac Lane on the north side of County Road F before it flows into the tile inlet. EPA observed the flow into the tile inlet.

Location: On public road right-of-way west of tile inlet and culvert.

Facing: Down

Date/Time: 4/21/2017 at 12:08 PM

Photo: P4210084

Description: Sample S02- Culvert outlet on the west side of 2nd driveway west of Lilac Lane on the north side of County Road F before it flows into the tile inlet

Location: On the public road right-of-way, on the north side of County Road F and west of the 2nd driveway west of Lilac Lane.

Facing: Down

Date/Time: 4/21/2017 at 12:08 PM

Photo: P4210085

Description: Sample S02 - Culvert outlet on the west side of 2nd driveway west of Lilac Lane on the north side of County Road F before it flows into the tile inlet.

Location: On the public road right-of-way west of the 2nd driveway west of Lilac Lane on the north side of County Road F.

Facing: NA

Date/Time: 4/21/2017 at 12:08 PM

Photo: P4210086

Description: Sample S02 - Culvert outlet on the west side of 2nd driveway west of Lilac Lane on the north side of County Road F before it flows into the tile inlet.

Location: On the public road right-of-way west of the 2nd driveway west of Lilac Lane and north of County Road F.

Facing: Down

Date/Time: 4/21/2017 at 12:08 PM

Photo: P4210087

Description: Sample S02 – Culvert outlet on the west side of 2nd driveway west of Lilac Lane on the north side of County Road F before it flows into the tile inlet

Location: On the public road right-of-way west of the 2nd driveway west of Lilac Lane and north of County Road F.

Facing: NA

Date/Time: 4/21/2017 at 12:09 PM

Photo: P4210088

Description: Close-up of the process wastewater as it flows out from the culvert outlet on west side of the driveway west of Lilac of the culvert outlet and tile inlet on the north side of County Road F and west of the 2nd driveway west of Lilac Lane.

Location: On the public road right-of-way west of the 2nd driveway west of Lilac Lane and north of County Road F.

Facing: Down

Date/Time: 4/21/2017 at 12:09 PM

Photo: P4210089

Description: EPA observed the flow of process wastewater from in the roadside ditch on the north side of County Road F flowing west toward the 2nd driveway west of Lilac Lane

Location: On County Road F at the intersection of the 2nd driveway west of Lilac Road.

Facing: East

Date/Time: 4/21/2017 at 12:09 PM

Photo: P4210090

Description: EPA observed the process wastewater discharging off of the west side of the silage pad discharging to the southwest into the culvert that flows under the 2nd driveway west of Lilac Lane.

Location: On County Road F, east of the 2nd driveway west of Lilac Lane.

Facing: Northeast

Date/Time: 4/21/2017 at 12:09 PM

Photo: P4210091

Description: EPA observed the process wastewater that discharged from the silage pad flowing through the culvert under the 2nd driveway west of Lilac Lane.

Location: On the public road right-of-way at the 2nd driveway west of Lilac Lane.

Facing: Northeast

Date/Time: 4/21/2017 at 12:09 PM

Photo: P4210092

Description: EPA observed process wastewater flowing in the roadside north of County Road F through the culvert under the 1st driveway west of Lilac Lane.

Location: On the public road right-of-way on the north side of County Road F, east of the 2nd driveway west of Lilac Lane.

Facing: East

Date/Time: 4/21/2017 at 12:09 PM

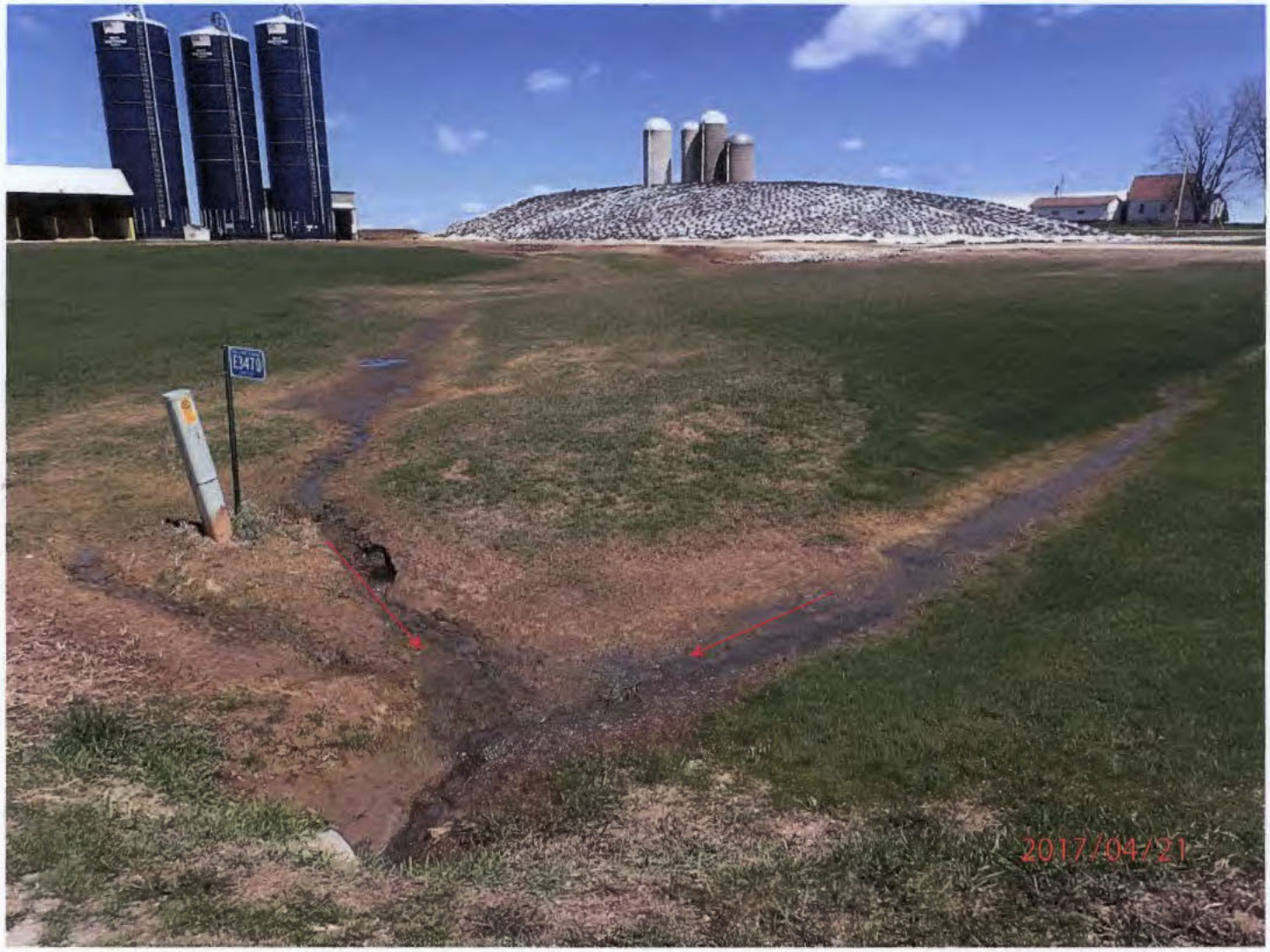


Photo: P4210093

Description: EPA observed the process wastewater discharging off of the west side of the silage pad and converging with the process wastewater flowing in the roadside ditch on the north side of County Road F flowing through the culvert under the 2nd driveway west of Lilac Lane.

Location: On the public road right-of-way at the intersection of the 2nd driveway west of Lilac Lane and on County Road F.

Facing: Northeast

Date/Time: 4/21/2017 at 12:09 PM

Photo: P4210094

Description: EPA observed the process wastewater discharging off of the west side of the silage pad and converging with the process wastewater flowing in the roadside ditch on the north side of County Road F flowing through the culvert under the 2nd driveway west of Lilac Lane.

Location: On the public road right-of-way, at the intersection of the 2nd driveway west of Lilac Lane and on County Road F.

Facing: Northeast

Date/Time: 4/21/2017 at 12:09 PM

Photo: P4210095

Description: EPA observed feed and surface water discharging off of the east side of the silage pad into the roadside ditch west of Lilac Lane. Red outline is showing the feed and surface water on the silage pad and in the roadside ditch.

Location: On Lilac Lane east of the silage pad located on Legend Farms Dairy, LLC.

Facing: West

Date/Time: 4/21/2017 at 12:12 PM

Photo: P4210096

Description: EPA observed feed and surface water discharging off of the east side of the silage pad into the roadside ditch west of Lilac Lane.

Location: On Lilac Lane east of the silage pad located on Legend Farms Dairy, LLC.

Facing: West

Date/Time: 4/21/2017 at 12:12 PM

Photo: P4210097

Description: EPA observed feed and surface water discharging off of the east side of the silage pad into the roadside ditch west side of Lilac Lane.

Location: On Lilac Lane east of the silage pad located on Legend Farms Dairy, LLC.

Facing: Northwest

Date/Time: 4/21/2017 at 12:12 PM

Photo: P4210098

Description: EPA observed feed and surface water discharging off of the east side of the silage pad into roadside ditch west of Lilac Lane.

Location: On Lilac Lane across from silage pad located on Legend Farms Dairy, LLC.

Facing: Northwest

Date/Time: 4/21/2017 at 12:12 PM

Photo: P4210099

Description: EPA observed feed and surface water on the east side of the silage pad discharging into the roadside ditch on the west side of Lilac Lane.

Location: On Lilac Lane across from silage pad located on Legend Farms Dairy, LLC.

Facing: Northwest

Date/Time: 4/21/2017 at 12:12 PM

Photo: P4210100

Description: EPA observed feed and surface water on the east side of the silage pad discharging into the roadside ditch on the west side of Lilac Lane.

Location: On Lilac Lane across from silage pad located on Legend Farms Dairy, LLC.

Facing: Southwest

Date/Time: 4/21/2017 at 12:12 PM

Photo: P4210101

Description: EPA observed starting at the intersection of County Road F and Lilac Lane and driving north on the Lilac Lane the terrain went uphill.

Location: On Lilac Lane across from silage pad located on Legend Farms Dairy, LLC.

Facing: Northwest

Date/Time: 4/21/2017 at 12:13 PM

Photo: P4210102

Description: EPA observed that from the intersection of County Road F driving north on Lilac Lane the road goes uphill and the silage pad is sloped to the south.

Location: On Lilac Lane across from silage pad located on Legend Farms Dairy, LL

Facing: Northwest

Date/Time: 4/21/2017 at 12:13 PM

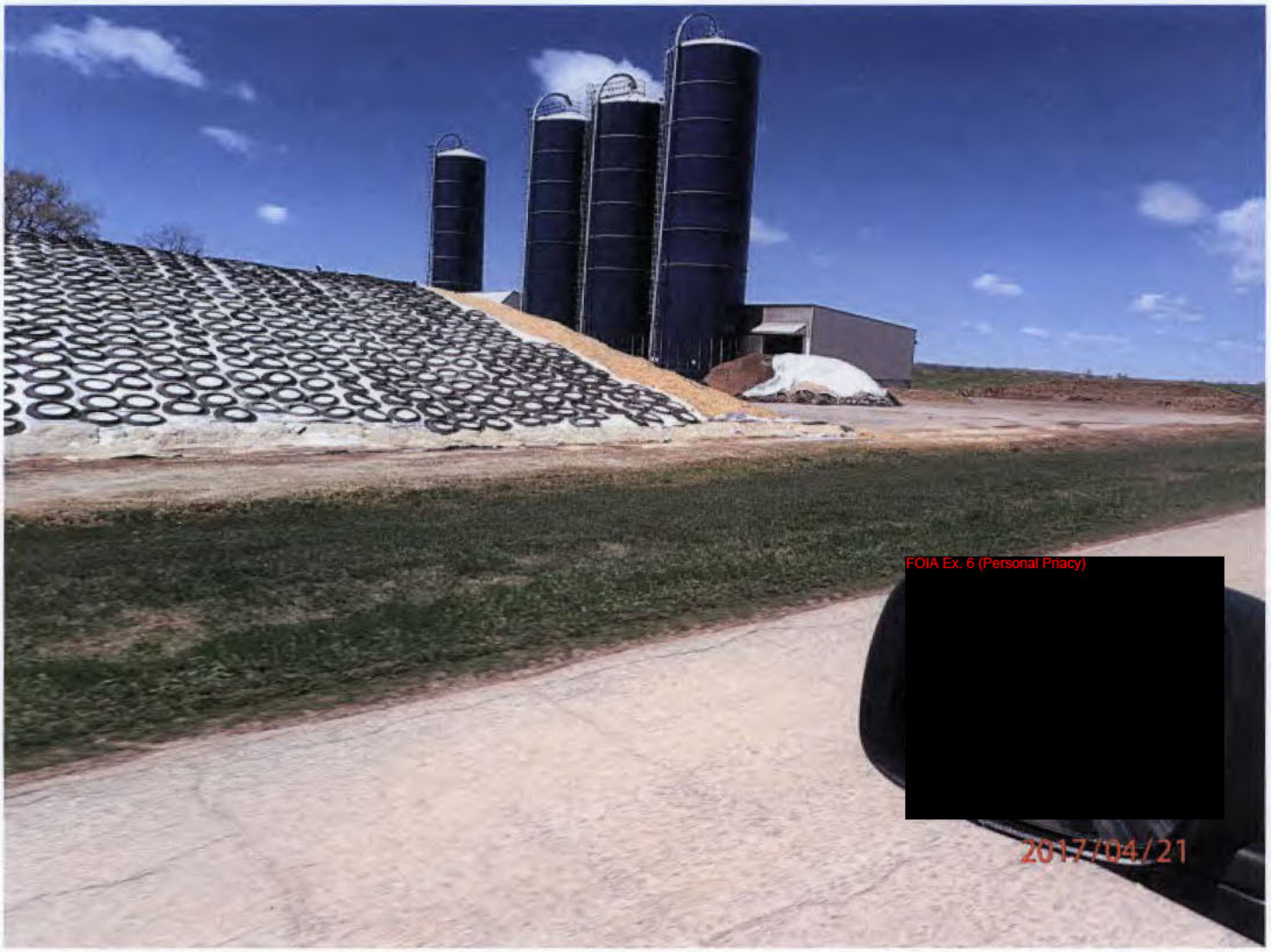


Photo: P4210103

Description: EPA observed that on the north side of the silage pad no feed or surface water was observed within the roadside ditch on west side of Lilac Lane due to the slope of the silage pad and roadside ditch to the south.

Location: On Lilac Lane across from silage pad located on Legend Farms Dairy, LLC.

Facing: Northwest

Date/Time: 4/21/2017 at 12:13 PM

Photo: P4210104

Description: EPA did not observe any other sources, except Legend Farms Dairy, LLC discharging feed and surface water into the roadside ditch on west side of Lilac Lane due to the slope of the silage pad and slope of the roadside ditch to the south.

Location: On Lilac Lane across from silage pad located on Legend Farms Dairy, LLC.

Facing: Northwest

Date/Time: 4/21/2017 at 12:13 PM

Photo: P4210104

Description: EPA did not observe any other sources, except Legend Farms Dairy, LLC discharging feed and surface water into the roadside ditch on west side of Lilac Lane due to the slope of the silage pad and slope of the roadside ditch to the south.

Location: On Lilac Lane across from silage pad located on Legend Farms Dairy, LLC.

Facing: Northwest

Date/Time: 4/21/2017 at 12:13 PM

Photo: P4210105

Description: EPA did not observe any other sources, except Legend Farms Dairy, LLC discharging feed and surface water into the roadside ditch on west side of Lilac Lane due to the slope of the silage pad and slope of the roadside ditch to the south.

Location: On Lilac Lane across from silage pad located on Legend Farms Dairy, LLC.

Facing: Northwest

Date/Time: 4/21/2017 at 12:13 PM

Photo: P4210106

Description: EPA did not observe any other sources, except Legend Farms Dairy, LLC discharging feed and surface water into the roadside ditch on west side of Lilac Lane due to the slope of the silage pad and slope of the roadside ditch to the south.

Location: On Lilac Lane across from silage pad located on Legend Farms Dairy, LLC.

Facing: Northwest

Date/Time: 4/21/2017 at 12:13 PM

Photo: P4210107

Description: EPA observed feed and surface water (process wastewater) discharging off of the silage pad to the east and flowing south toward County Road F. EPA verified that there were no other sources of process wastewater north of the silage pad discharging into the roadside ditch west of Lilac Lane.

Location: On Lilac Lane across from silage pad located on Legend Farms Dairy, LLC.

Facing: Southwest

Date/Time: 4/21/2017 at 12:13 PM

Photo: P4210108

Description: EPA did not observe any other sources, except Legend Farms Dairy, LLC discharging feed and surface water into the roadside ditch on west side of Lilac Lane due to the slope of the silage pad and slope of the roadside ditch to the south.

Location: On Lilac Lane across from silage pad located on Legend Farms Dairy, LLC.

Facing: West

Date/Time: 4/21/2017 at 12:13 PM

Photo: P4210109

Description: EPA observed feed and surface water (process wastewater) discharging off of the silage pad discharges off the pad to the east into the roadside ditch west of Lilac Lane and flows south toward County Road F.

Location: On Lilac Lane across from silage pad located on Legend Farms Dairy, LLC.

Facing: Southwest

Date/Time: 4/21/2017 at 12:14 PM

Photo: P4210110

Description: EPA observed that the feed and surface water (process wastewater) off of the silage pad discharges off the pad to the east into the roadside ditch west of Lilac Lane and flows south toward County Road F.

Location: On Lilac Lane across from silage pad located on Legend Farms Dairy, LLC.

Facing: South

Date/Time: 4/21/2017 at 12:14 PM

Photo: P421011

Description: EPA observed feed and surface water (process wastewater) off of the silage pad discharges off the pad to the east into the roadside ditch west of Lilac Lane and flows south toward County Road F.

Location: On Lilac Lane across from silage pad located on Legend Farms Dairy, LLC.

Facing: South

Date/Time: 4/21/2017 at 12:14 PM

Photo: P4210112

Description: EPA observed feed and surface water (process wastewater) off of the silage pad discharges off the pad to the east into the roadside ditch west of Lilac Lane and flows south toward County Road F.

Location: On Lilac Lane across from silage pad located on Legend Farms Dairy, LLC.

Facing: South

Date/Time: 4/21/2017 at 12:14 PM

Photo: P4210113

Description: EPA observed feed and surface water (process wastewater) off of the silage pad discharges off the pad to the east into the roadside ditch west of Lilac Lane and flows south toward County Road F.

Location: On Lilac Lane across from silage pad located on Legend Farms Dairy, LLC.

Facing: South

Date/Time: 4/21/2017 at 12:14 PM

Photo: P4210114

Description: EPA observed that the silage pad, roadside ditch, and Lilac Road are sloped to south no runoff north of the silage pad discharges into the roadside ditch west of Lilac Lane.

Location: On Lilac Lane across from silage pad located on Legend Farms Dairy, LLC.

Facing: North

Date/Time: 4/21/2017 at 12:14 PM

Photo: P4210115

Description: Close-up of the feed off of the silage pad. Documenting that there is a hill behind the silage to the north and tires stacked and no additional runoff is coming down the ditch along the west side of Lilac Lane

Location: On Lilac Lane across from silage pad located on Legend Farms Dairy, LLC.

Facing: Northwest

Date/Time: 4/21/2017 at 12:15 PM

Photo: P4210116

Description: EPA observed feed and surface water (process wastewater) discharging off of the silage pad at this location, but farther to south process wastewater was discharging off of the silage pad. EPA observed that the process wastewater was only coming from the silage pad.

Location: On Lilac Lane across from silage pad located on Legend Farms Dairy, LLC.

Facing: South

Date/Time: 4/21/2017 at 12:15 PM

Photo: P4210117

Description: EPA observed feed and surface water (process) wastewater discharging off of the silage pad at this location, but farther to south process wastewater was flowing to the south. EPA observed that the process wastewater was only coming from the silage pad.

Location: On Lilac Lane across from silage pad located on Legend Farms Dairy, LLC.

Facing: South

Date/Time: 4/21/2017 at 12:15 PM

Photo: P4210118

Description: EPA observed feed and surface water (process wastewater) discharging the silage pad at this location. EPA observed that the process wastewater was only coming from the silage pad.

Location: On Lilac Lane across from silage pad located on Legend Farms Dairy, LLC.

Facing: Northwest

Date/Time: 4/21/2017 at 12:15 PM

Photo: P4210119

Description: EPA observed feed and surface water (process wastewater) discharging off of the silage pad into the roadside ditch west of Lilac Lane.

Location: On Lilac Lane across from silage pad located on Legend Farms Dairy, LLC.

Facing: West

Date/Time: 4/21/2017 at 12:15 PM

Photo: P4210120

Description: EPA observed feed and surface water (process wastewater) discharging off of the silage pad into the roadside ditch west of Lilac Lane.

Location: On Lilac Lane across from silage pad located on Legend Farms Dairy, LLC.

Facing: West

Date/Time: 4/21/2017 at 12:15 PM

Photo: P4210121

Description: EPA observed feed and surface water (process wastewater) discharging off of the silage pad into the roadside ditch west of Lilac Lane.

Location: On Lilac Lane across from silage pad located on Legend Farms Dairy, LLC.

Facing: West

Date/Time: 4/21/2017 at 12:15 PM

Photo: P4210122

Description: EPA observed process wastewater feed and surface water (process wastewater) discharging off of the east side of Legend Farms Dairy, LLC's silage pad into the roadside ditch west of Lilac Lane. The process wastewater flowed south around the bend into the roadside ditch on the north side of County Road F.

Location: On Lilac Lane across from silage pad located on Legend Farms Dairy, LLC.

Facing: Southwest

Date/Time: 4/21/2017 at 12:15 PM

Photo: P4210123

Description: EPA observed process wastewater feed and surface water (process wastewater) discharging off of the east side of Legend Farms Dairy, LLC's silage pad into the roadside ditch west of Lilac Lane. The process wastewater flowed south around the bend into the roadside ditch on the north side of County Road F.

Location: On Lilac Lane across from silage pad located on Legend Farms Dairy, LLC.

Facing: Southwest

Date/Time: 4/21/2017 at 12:15 PM

Photo: P4210124

Description: EPA observed process wastewater feed and surface water (process wastewater) discharging off of the east side of Legend Farms Dairy, LLC's silage pad into the roadside ditch west of Lilac Lane. The process wastewater flowed south around the bend into the roadside ditch on the north side of County Road F.

Location: On Lilac Lane across from silage pad located on Legend Farms Dairy, LLC.

Facing: Southwest

Date/Time: 4/21/2017 at 12:15 PM

Photo: P4210125

Description: EPA observed the feed and surface water (process wastewater) that discharged off of the east side of the silage pad into the roadside ditch west of Lilac Lane. The process wastewater flowed south around the bend into the roadside ditch on the north side of County Road F.

Location: On Lilac Lane at the intersection of Lilac Lane and County Road F

Facing: Southwest

Date/Time: 4/21/2017 at 12:15 PM

Photo: P4210126

Description: EPA observed the feed and surface water (process wastewater) that discharged off of the east side of the silage pad into the roadside ditch west of Lilac Lane. The process wastewater flowed south around the bend into the roadside ditch on the north side of County Road F.

Location: On Lilac Lane at the intersection of Lilac Lane and County Road F.

Facing: Southwest

Date/Time: 4/21/2017 at 12:15 PM

Photo: P4210127

Description: EPA observed the feed and surface water (process wastewater) that discharged off of the east side of the silage pad into the roadside ditch west of Lilac Lane. The process wastewater flowed south around the bend into the roadside ditch on the north side of County Road F.

Location: On Lilac Lane at the intersection of Lilac Lane and County Road F.

Facing: West

Date/Time: 4/21/2017 at 12:16 PM

Photo: P4210128

Description: EPA observed the continued flow of process wastewater south in the roadside ditch west side of Lilac Lane into the roadside ditch on the north side of County Road F as it flowed west and through the culvert under the 1st driveway west of Lilac Lane to the silage pad.

Location: On Lilac Lane at the intersection of Lilac Lane and County Road F.

Facing: Northwest

Date/Time: 4/21/2017 at 12:16 PM

Photo: P4210129

Description: EPA observed the continued flow of process wastewater south in the roadside ditch west side of Lilac Lane into the roadside ditch on the north side of County Road F as it flowed west and through the culvert under the 1st driveway west of Lilac Lane to the silage pad.

Location: On Lilac Lane at the intersection of Lilac Lane and County Road F.

Facing: West

Date/Time: 4/21/2017 at 12:16 PM

Photo: P4210130

Description: EPA observed that there was continued flow west in the roadside along the south side of County Road F at the location of the tile outlet (WDNR showed EPA the location) continued to flow west.

Location: On County Road B at the intersection of County Road F and County Road B.

Facing: East

Date/Time: 4/21/2017 at 12:16 PM

Photo: P4210131

Description: EPA observed that the flow from the tile outlet flows west through the culvert under County Road B flowing west.

Location: On County Road F at the intersection of County Road F and County Road B.

Facing: South

Date/Time: 4/21/2017 at 12:18 PM

Photo: P4210132

Description: EPA was documenting location of where EPA observed the flow in the roadside ditch on south side of County Road F continued to flow through the culvert under County Road B.

Location: On County Road B at the intersection of County Road B and County Road F

Facing: Northeast

Date/Time: 4/21/2017 at 12:18 PM

Photo: P4210133

Description: EPA observed the flow from the tile outlet through the culvert outlet on west side of County Road B which continued to flow in the roadside ditch along south side of County Road F.

Location: On County Road B at the intersection of County Road B and County Road F.

Facing: West

Date/Time: 4/21/2017 at 12:18 PM

Photo: P4210134
Description: EPA observed flow through the culvert outlet on the west side of County Road B.
Location: On County Road B
Facing: North
Date/Time: 4/21/2017 at 12:18 PM

Photo: P4210135

Description: EPA observed the continued flow from the tile outlet west along the south side of County Road F into wetland area.

Location: On County Road F west of County Road B.

Facing: Southwest

Date/Time: 4/21/2017 at 12:18 PM

Photo: P4210136
Description: EPA observed the continued flow along the south side of County Road F as it continued to flow west.
Location: On County Road F, west of County Road B.
Facing: West
Date/Time: 4/21/2017 at 12:19 PM

Photo: P4210137

Description: EPA observed the water from the tile outlet flowing west within the roadside ditch on the south side of County Road F flowing into an unnamed tributary and flowing south.

Location: On County Road F, west of County Road B.

Facing: South

Date/Time: 4/21/2017 at 12:19 PM

Photo: P4210138

Description: EPA requested permission to access driveway of residence to document continued flow of unnamed tributary looking upstream.

Location: On residence driveway labeled as Dikeman Road off of County Road F west of County Road B.

Facing: East

Date/Time: 4/21/2017 at 12:19 PM

Photo: P4210139

Description: EPA requested permission to access driveway of residence to document continued flow of unnamed tributary looking upstream.

Location: On residence driveway labeled as Dikeman Road off of County Road F west of County Road B.

Facing: East

Date/Time: 4/21/2017 at 12:20 PM

Photo: P4210140

Description: EPA requested permission to access driveway of residence labeled as Dikeman Road to document continued flow of unnamed tributary

looking downstream.

Location: On residence driveway labeled as Dikeman Road off of County Road F west of County Road B.

Facing: west

Date/Time: 4/21/2017 at 12:20 PM

Photo: P4210141

Description: EPA requested permission to access driveway of residence to document continued flow of unnamed tributary looking upstream.

Location: On residence driveway labeled as Dikeman Road off of County Road F west of County Road B.

Facing: East

Date/Time: 4/21/2017 at 12:20 PM

Photo: P4210141

Description: EPA requested permission to access driveway of residence to document continued flow of unnamed tributary looking downstream.

Location: On residence driveway labeled as Dikeman Road off of County Road F west of County Road B.

Facing: West

Date/Time: 4/21/2017 at 12:20 PM

Photo: P4210142

Description: EPA documented flow from the unnamed tributary looking upstream.

Location: On residence driveway labeled as Dikeman Road off of County Road F west of County Road B.

Facing: south

Date/Time: 4/21/2017 at 12:20 PM

Photo: P4210143

Description: EPA documenting downstream flow of unnamed tributary documenting the continued flow from the tile outlet to a water of the United States.

Location: On residence driveway labeled as Dikeman Road off of County Road F west of County Road B.

Facing: South

Date/Time: 4/21/2017 at 12:20 PM

Photo: P4210144

Description: EPA documenting flow from the County Road F into unnamed tributary looking downstream.

Location: On residence driveway labeled as Dikeman Road off of County Road F west of County Road B.

Facing: North

Date/Time: 4/21/2017 at 12:21 PM

Photo: P4210145

Description: EPA to continue to document flow in Krok Creek. EPA drove down a road to a campground off of County Road F. EPA documented that there was flow within the Krok Creek.

Location: On a roadway that leads to a campground.

Facing: South

Date/Time: 4/21/2017 at 12:21 PM

Photo: P4210146
Description: East of the driveway documenting upstream flow in Krok Creek.
Location: On a roadway that leads to a campground.
Facing: Northeast
Date/Time: 4/21/2017 at 12:21 PM

Photo: P4210147
Description: The location of Krok Creek in the photo is identified by the red arrow.
Location: On a roadway that leads to a campground.
Facing: Northeast
Date/Time: 4/21/2017 at 12:29 PM

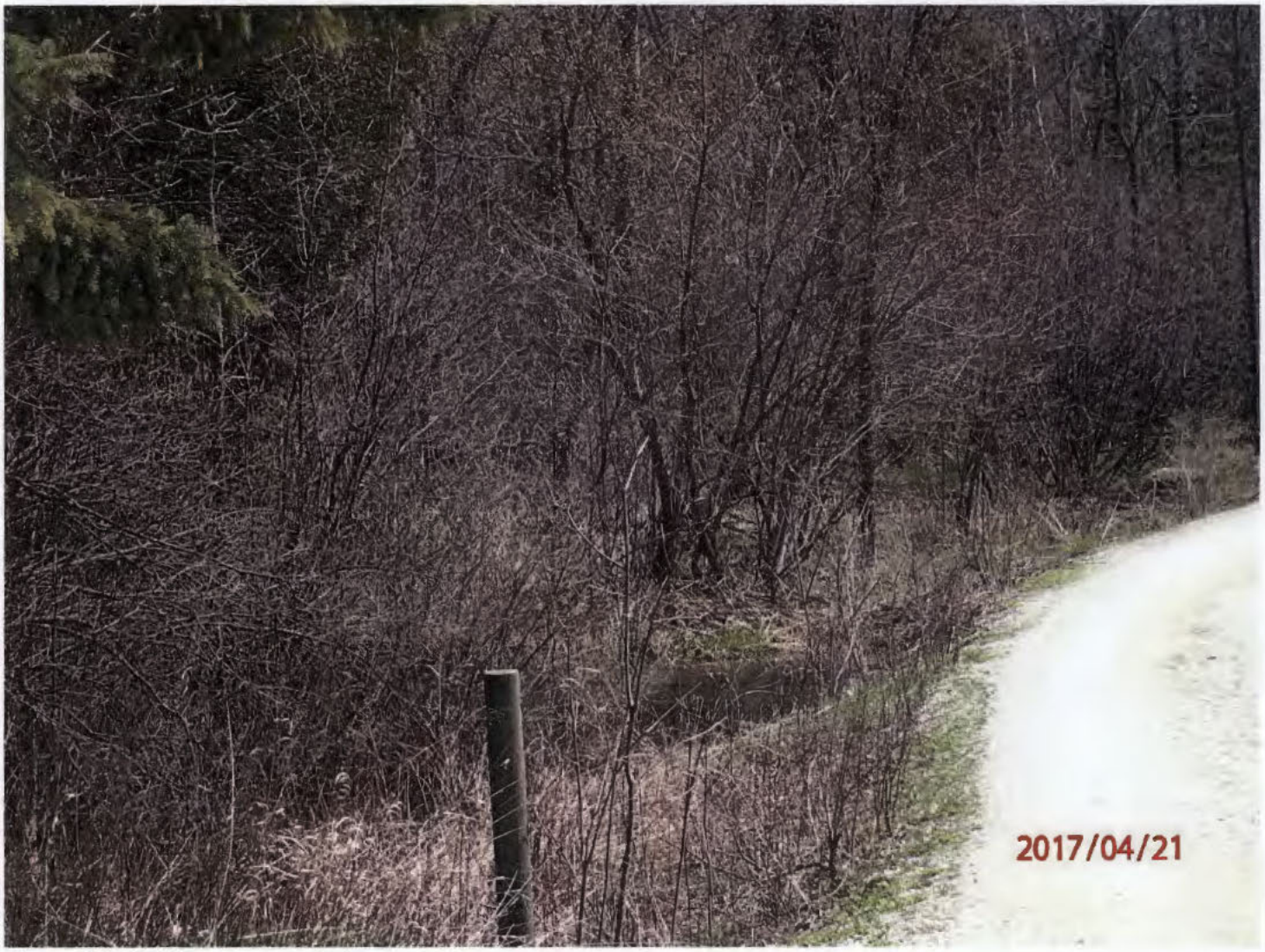


Photo: P4210148
Description: EPA observing the upstream flow of Krok Creek.
Location: On a roadway that leads to a campground.
Facing: Southeast
Date/Time: 4/21/2017 at 12:29 PM

Photo: P4210149
Description: Looking downstream at Krok Creek.
Location: On a roadway that leads to a campground.
Facing: southwest
Date/Time: 4/21/2017 at 12:29 PM

Photo: P4210150
Description: The location of Krok Creek in the photo is identified by the red arrow.
Location: On a roadway that leads to a campground.
Facing: South
Date/Time: 4/21/2017 at 12:29 PM

Photo: P4210152
Description: The location of Krok Creek in the photo is identified by the red arrow.
Location: On a roadway that leads to a campground.
Facing: South
Date/Time: 4/21/2017 at 12:29 PM

Photo: P4210153

Description: The location of Krok Creek in the photo is identified by the red arrow.

Location: On a roadway that leads to a campground.

Facing: South

Date/Time: 4/21/2017 at 12:29 PM

Photo: P4210154
Description: The location of Krok Creek in the photo is identified by the red arrow.
Location: On a roadway that leads to a campground.
Facing: South
Date/Time: 4/21/2017 at 12:29 PM

ATTACHMENT C

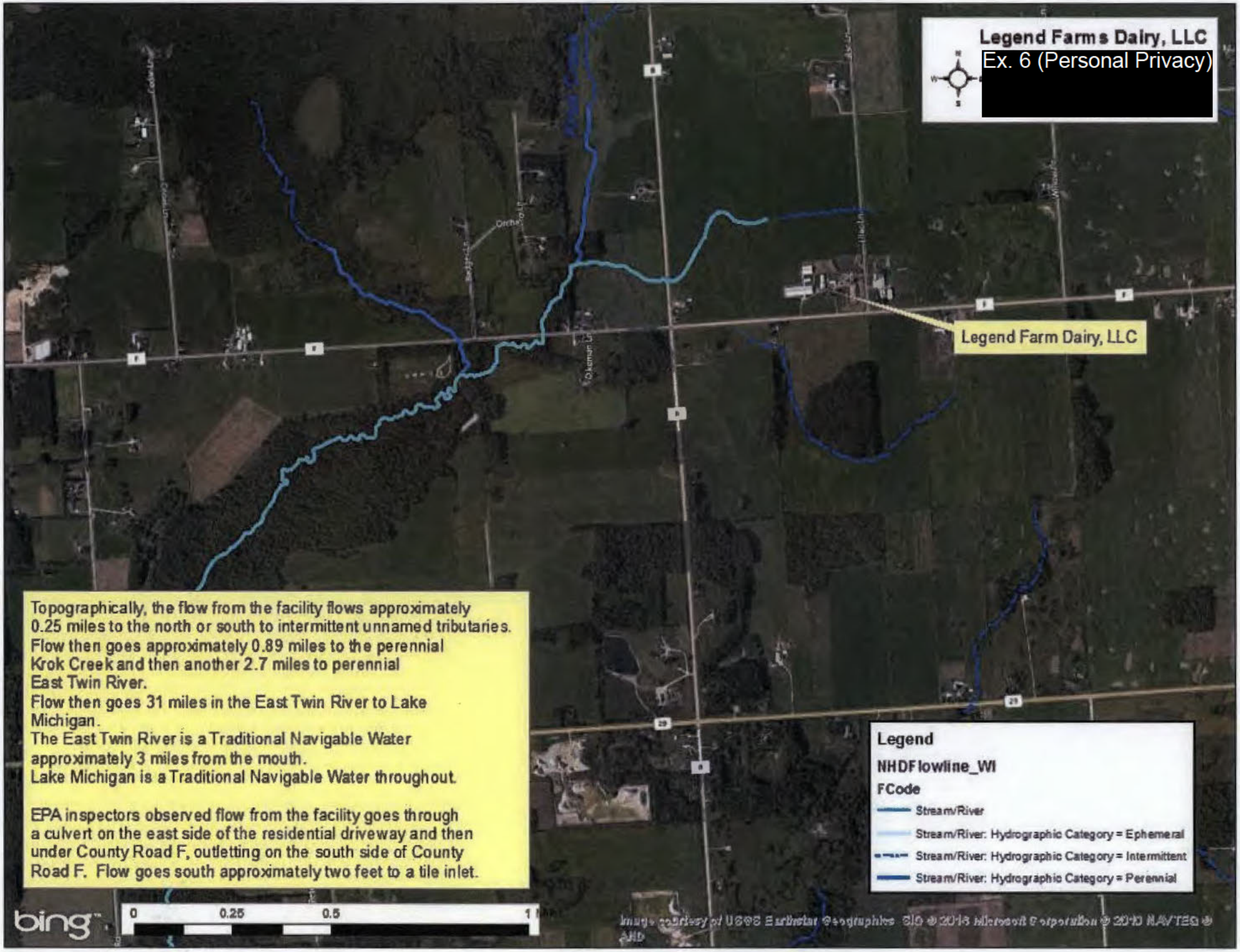
AERIAL MAPS –

EPA GPS Locations

Water of United States

Ex. 6 (Personal Privacy)

[redacted]



Topographically, the flow from the facility flows approximately 0.25 miles to the north or south to intermittent unnamed tributaries. Flow then goes approximately 0.89 miles to the perennial Krok Creek and then another 2.7 miles to perennial East Twin River.
Flow then goes 31 miles in the East Twin River to Lake Michigan.
The East Twin River is a Traditional Navigable Water approximately 3 miles from the mouth.
Lake Michigan is a Traditional Navigable Water throughout.

EPA inspectors observed flow from the facility goes through a culvert on the east side of the residential driveway and then under County Road F, outletting on the south side of County Road F. Flow goes south approximately two feet to a tile inlet.

ATTACHMENT D

MAP

ROAD RIGHT-OF-WAY

Kewaunee County GIS

DISCLAIMER: Kewaunee County does not guarantee the accuracy of the material contained here in and is not responsible for any misuse or misrepresentation of this information or its derivatives.

SCALE: 1" = 80'

Kewaunee County
Land Information Office
810 Lincoln St
Kewaunee, WI 54216
920-388-7190

Print Date: 4/21/2017