

Final Report

Agricultural Targeted Runoff Management &
Notice of Discharge Grant Programs

Form 3400-189A (R 05/16)

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NOTICE: This document is required under s. 281.65, Wis. Stats., and chs. NR 153 and 154, Wis. Adm. Code. A final project report must be submitted as part of the final reimbursement request. Personally identifiable information contained in this form will be used for determining reimbursement eligibility in the Targeted Runoff Management and Notice of Discharge Grant Programs and will not be used for any other purpose.

INSTRUCTIONS: Send the completed, electronic copy of this form and all attachments to the Department of Natural Resources (DNR) Region Nonpoint Source Coordinator. Please read all instructions prior to completion.

Grant Type			
Select Grant Type Small Scale Non Total Maximum Daily Load (TMDL)			
Project Name & Location			
Project Name Wolf River-Hoewisch Homestead Dairy Project			
Grant Number TRC-WR04-68000-14A		Governmental Unit Name Waupaca County Land & Water Conservation Dept.	
County Waupaca	Watershed Name Lower Wolf	12-Digit HUC 040302021906	
Project Contact Name Brian Haase	Phone Number (715) 258-6482	E-mail Address brian.haase@co.waupaca.wi.us	
<input type="checkbox"/> For a project with multiple site locations, an aerial photo map is attached with each site location labeled.			

Site Location - 1							
Name of Cost-Share Recipient Hoewisch Homestead Dairy, LLC					Animal Units 478	Nearest Receiving Waterbody Unnamed Trib. to Wolf River	
Township 21	Range 14	E / W E	Section 28	Quarter SE	Quarter/Quarter NE	Latitude 44.26343	Longitude -88.80213
Compliance Requirements - 1							
Chs. NR 151 or 243 Wis. Adm. Code Notice Type NR 151		Notice letter attached <input type="checkbox"/>		Compliance achieved? If no, explain in site information <input checked="" type="radio"/> Yes <input type="radio"/> No		Compliance determination letter attached <input type="checkbox"/>	
<input checked="" type="checkbox"/> Attached is a copy of the written statement the County provided to the landowner and cost-share recipient of the landowner's obligation to maintain compliance with performance standards & prohibitions on cropland and livestock facilities addressed by the cost-share agreement. Compliance at these sites must be maintained in perpetuity regardless of future cost sharing. The County has also placed a copy of this written statement in the County files.							

Summary of Results - 1							
Best Management Practice Installed	Quantity	Unit of Measure	Performance Standard/Prohibition Addressed	Total Installation Cost	Load Reduction		
Phosphorus lbs/yr	Nitrogen lbs/yr	Sediment Tons/yr					
Manure Storage Systems	1	No.	Code(s) 3,4,9	\$265,837.00	125.48	0	0
Waste Transfer Systems	3	No.	Code(s) 3,7,9,4	\$98,070.00	0	0	0
Barnyard Runoff Control Systems	1	No.	Code(s) 12	\$12,350.00	66.8	0	0

Site Location Attachment - 1	
Check the box if the required information for the site is attached:	
<input checked="" type="checkbox"/> Photos of pre-and post-implementation of BMP(s)	<input checked="" type="checkbox"/> Load reduction modeling documents
<input checked="" type="checkbox"/> Aerial photo map of site with BMPs labeled	<input type="checkbox"/> Water quality monitoring results/summary, if applicable

Site Information - 1
<p><i>Narrative space will expand to fit</i></p> <p>The pollutants and water quality problem at Hoewisch Homestead Dairy site are twofold. The first issue is manure storage. Hoewisch's have a high percentage of their cropland within 300' of agricultural drainage ditches that lead directly to the Wolf River. With barely a 1:1 ratio of cropland to animal units and only about one month of existing</p>

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manure storage this farm is essentially a daily haul operation that is either forced to overload manure on areas outside of the SWQMA or spread unincorporated manure within 300' of drainage ditches, during winter months, to maintain more even phosphorous levels in their soil tests and risk more potential runoff. The second issue is direct runoff from the holding area (old barnyard area) to an agricultural ditch that is about 200' away. While the farm can often manage this problem during summer months, the frozen conditions of early spring can lead to a build up of manure solids and direct runoff to the agricultural ditch.

Additionally, the current manure storage facility, at this site, does not meet the 313 standard with respect to groundwater elevation. While the structure is currently grandfathered into Waupaca County's manure storage ordinance, any alteration or creation of a new facility would give Waupaca County the opportunity to upgrade the facility to current standards.

☒ DNR may use this site as a success story to meet state and federal reporting needs.

Additional Project Information and/or Comments

Narrative space will expand to fit

Due to newer interpretations of groundwater for NRCS Standard 313 the entire site location at Hoewisch's was determined to have a static water level less than 3' below the ground surface. This greatly impacted the cost of the manure storage facility due the need to construct it completely above ground. Summary results were made by using the traditional BARNY spreadsheet to show the reduction of barnyard runoff from before and after the project. The after result is zero since the lot is now totally contained. Summary results for manure storage were made using Andrew Craig's suggested SNAP PI comparison method. The use of SNAP to achieve reduction numbers seems appropriate considering the weight that the State of WI puts on the use of SNAP, however the results may differ in comparison from year to year depending on crop rotations, etc within SNAP.

Grantee Certification

A responsible government official (authorized signatory) must authorize and date the final report form prior to submittal to DNR.

I certify that, to the best of my knowledge, the project is complete and the information contained in this final report and attachments are correct and true.

Name of Authorized Government Official	Title of Authorized Government Official	Date
Brian Haase	County Conservationist	02/22/2017

For DNR Use Only

☒ Received complete reports with all attachments ☒ Practices implemented were consistent with the grant agreement

Comments about this project:
None.

Name of Region Nonpoint Source Coordinator	Date
Erin Hanson	02/24/2017

Send the Final Report and attachments to the Community Financial Assistance Grants Manager and to the Runoff Management Grant Coordinator. Keep a printed copy for the Region file.

Waupaca County
Land & Water Conservation Department

811 Harding Street
Waupaca WI 54981
Fax: 715/258-6239

Phone: 715/258-6245



Brian Haase
County Conservationist
Kristy Harris
Program Assistant
Corey Schuelke
Engineering Technician
Greg Peterson
Engineering Technician
Dan McFarlane
Engineering Technician/GIS
Stefan Stults
Nutrient Mngmt. Specialist

May 10th, 2016

Hoewisch Homestead Dairy, LLC
Kevin, Jeff & Jake Hoewisch
E8411 State Hwy 96
Fremont, WI 54940

Kevin, Jeff & Jake,

Waupaca County is required to inform you in writing, as part of the TRM grant process, of your obligation to maintain compliance with the applicable state agricultural performance standards and prohibitions that were addressed by the TRM cost-share agreement. These standards and prohibitions are outlined in Subchapter II (NR 151.02-NR 151.095) of Wisconsin Administrative Code NR 151. Enclosed you will find a copy of NR 151 Subchapters I & II that pertain specifically to agriculture and your project. I encourage you to take the time to read them over carefully. Additionally, please note that Addendum 3 of your TRM cost-share agreement requires you to maintain 6 months storage at your facility if you expand beyond 20% of your current animal units.

Also, to further comply with NR 151.07 (Nutrient Management) and Section 10.52 of the Waupaca County Manure Storage Ordinance, Waupaca County and the State of Wisconsin requires that you submit a copy of your Nutrient Management Plan (NRCS 590) to our office by April 1st of each year. Copies of your plan will be kept on file for potential review by DNR, DATCP or County staff.

If you have any questions regarding this issue or would like a full copy of Wisconsin Administrative Code NR 151, please feel free to call me at 715-258-6482.

Sincerely,

Brian Haase
County Conservationist
Waupaca County LWCD
715-258-6482

EXISTING BUFFER P OUTPUT (Based on BARNY)

Farmer: Hoewisch

Planner/Designer: DM

Date: 2/24/17

	Input	Output	
Closest City of similar climate:	<u>2</u>		1 Madison 2 Appleton 3 Wausau 4 Eau Claire
Paved lot area:	<u>8,040</u>		sq ft
Earth lot area:	<u>0</u>		sq ft
Animal Lot size:		<u>8,040</u>	sq ft
Is there a designed settling basin?	<u>0</u>		Yes= 1; No= 2
Animals on lot:	<u>160</u> number	<u></u> number	
Type of animal:	<u>1</u>		(Dairy = 1; Beef=2)
Ave. Animal Weight:	<u>1,400</u> lbs	<u></u> lbs	
Lot Use:	<u>2</u>		1= Heavy; 2=Med; 3= .light)

TRIBUTARY AREAS

Tributary area: 7,885 sq ft

Runoff Curve Number: 96

Roof Trib. area: 7,950 sq ft

sq ft

See RCN t:b below
for typical values

66.8 lbs P per year
at downstream lot edge

Enter Existing Buffer Data:

Length: 0 ft

Width: 0 ft

Buffer area:

Slope: 1.3 %

c value 0.15 For c values see table below

P Output:

66.8 lb

SnapPlus Annual PI Report

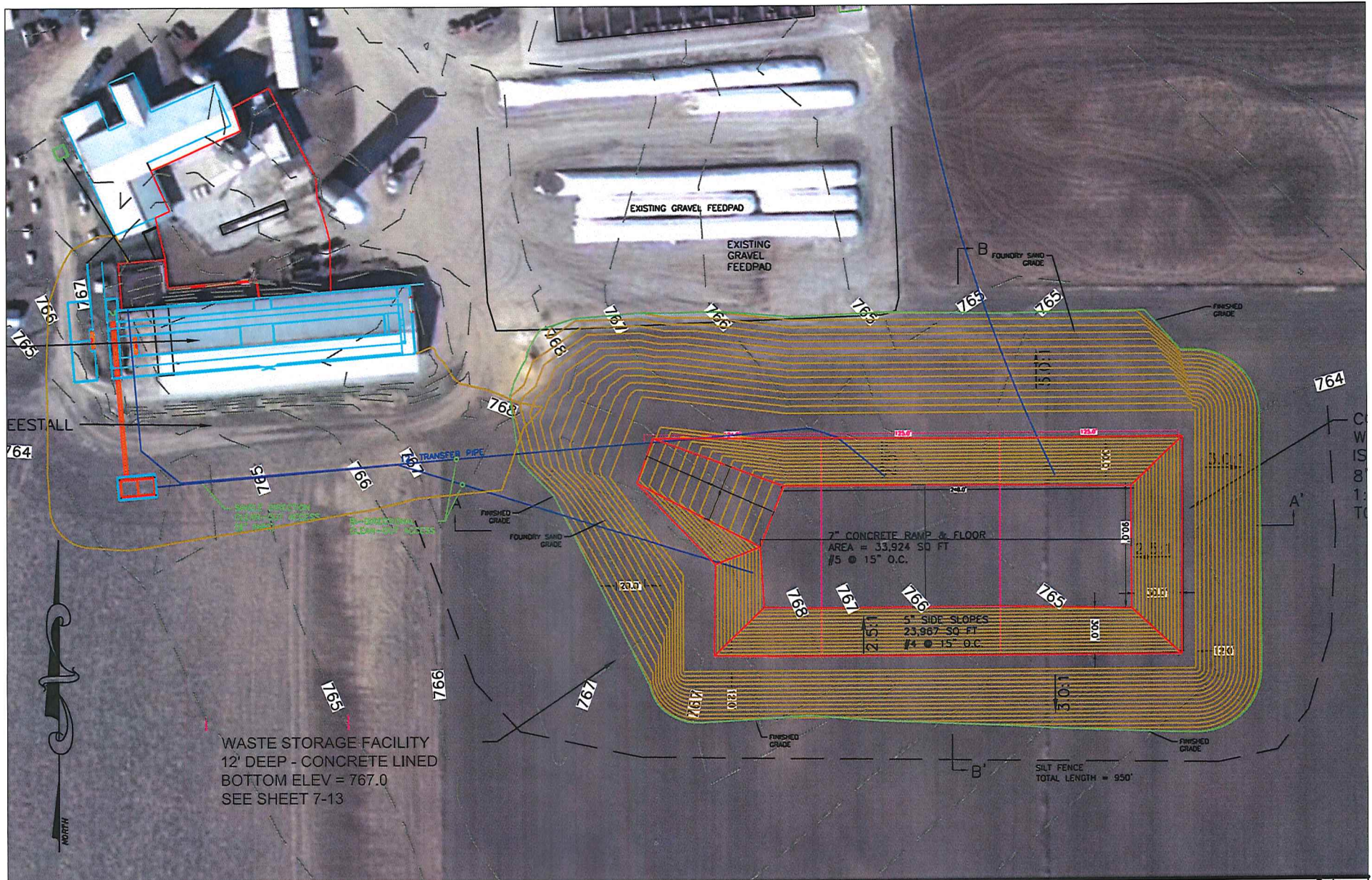
Reported For	Hoewisch Homestead Dairy LLC Group: WinterSpreadFields★
Printed	2017-02-24
Plan Completion/Update Date	2016-03-25
SnapPlus Version 16.3 built on 2016-10-31	
V:\LWCD\Stefan\ProgramMonitoring_FPandNMPs\Nutrient_Management\Hoewisch Homestead Dairy\TRM_Snap\HOEWISCH_TRM_Snap_2011-2018.snapDb	

Prepared for:
Hoewisch Homestead Dairy LLC
attn: Jacob Hoewisch
E8411 State Rd 96
Fremont, 54940

Field Name	Soil Series & Symbol (critical)	Slope	Tillage	Rot Avg PI	PI	2013	2014	2015	2016	Acres	PI Diff 15+16	A.C. Method PI-Diff x Acres ::
BEHIND-FS	SHAWANO Sfc	9	None-None-None-None	1	Total Particulate Soluble	1.1 0.0 1.1	1.3 0.0 1.3	1.3 0.0 1.3	0.2 0.0 0.2	19.8	-1.1	21.78
HEIFER-BARN	BORTH BrB	2	None-None-FCD-FCD	1	Total Particulate Soluble	1.7 0.2 1.5	1.1 0.1 1.1	0.8 0.3 0.5	0.6 0.3 0.4	13.6	-.2	2.72
JAKES	SHAWANO Sfb	4	FCD-FCD-SFC-None	2	Total Particulate Soluble	3.2 2.1 1.1	3.8 2.4 1.4	1.2 0.8 0.4	0.7 0.3 0.4	27.7	-.5	13.85
MIDDLE-FIELD	BORTH BrB	2	FCD-SFC-None-None	2	Total Particulate Soluble	2.1 0.5 1.6	1.9 0.2 1.7	2.0 0.1 1.9	0.6 0.1 0.5	18.4	-1.4	25.76
PHILIPINO	BORTH BrB	2	FCD-FCD-FCD-FCD	2	Total Particulate Soluble	0.9 0.5 0.4	2.8 0.6 2.2	3.1 0.9 2.3	1.2 0.5 0.7	21.9	-1.9	41.61
TESHES	BORTH BrB	2	None-FCD-FCD-FCD	1	Total Particulate Soluble	2.2 0.3 1.9	1.3 0.4 0.9	1.3 0.3 1.0	0.9 0.5 0.5	29.6	-.4	11.84

Field Name	Soil Series & Symbol (critical)	Slope	Tillage	Rot Avg PI	PI	2013	2014	2015	2016	Acres	PI Diff 15 to 16	AL Method PI-Diff x Acres =
TRYANGLE	BORTH BoB	2	SFC-None- None-None	1	Total Particulate Soluble	1.1 0.1 1.1	1.0 0.1 0.9	1.2 0.1 1.1	0.3 0.0 0.3	8.8	-.9	7.92

Total = 125.48



Sheet 6 of 16	Drawing Name	<h1 style="text-align: center;">NRCS</h1> <p style="text-align: center;">Natural Resources Conservation Service United States Department of Agriculture</p>	<h2 style="text-align: center;">SITE VIEW</h2> <p>OWNER: <u>Hoewisch Homestead Dairy</u></p> <p>COUNTY: <u>WAUPACA</u></p>	Designed	DM	Date	3/15	
	Date			10/2006	Drawn			
					Checked			
					Approved			

Before - BY

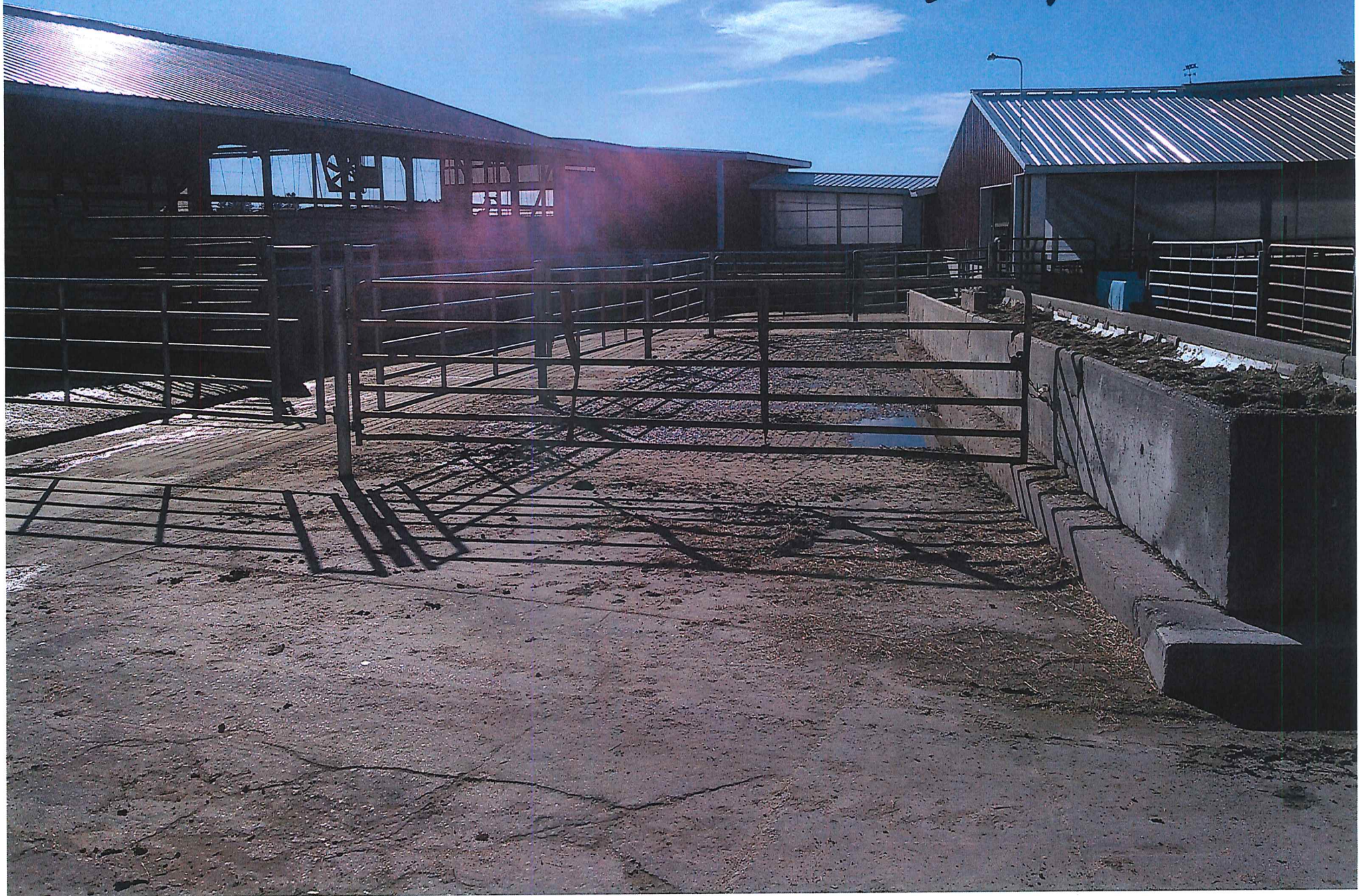


After - BY
Looking East



Previous
Runoff Channel

After - BY
Looking West



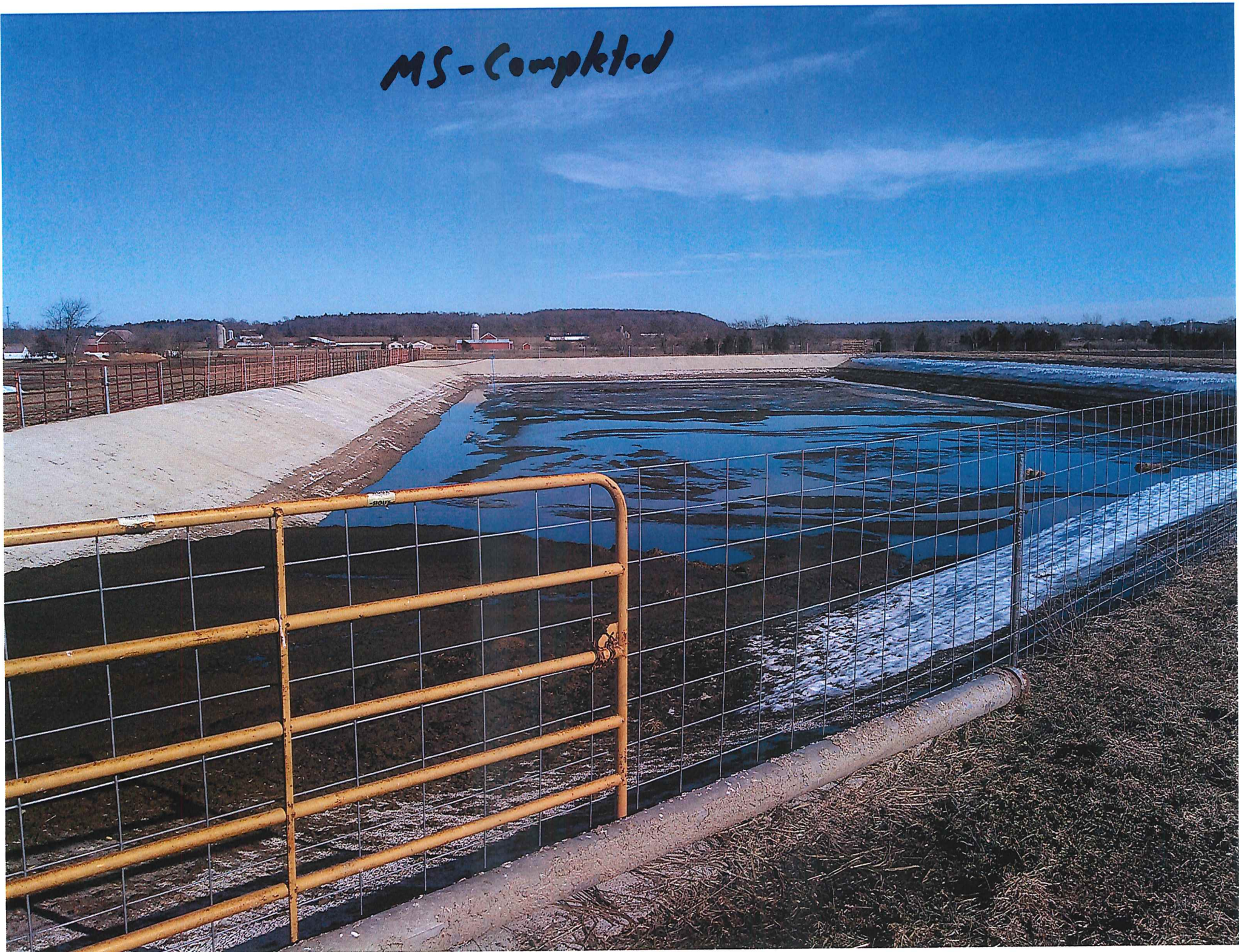
MS-Construction



MS-Construction



MS-Completed



Transfer



Transfer



Transfer
Tanks

BRAND
Styrofoam
UTILITYFIT
15 PSI SCORED INSULATION

2142727



UL LISTED
CERTIFICATE IN COMPLIANCE
WITH THE NATIONAL ELECTRICAL
CODE (NEC) AND THE CANADIAN
ELECTRICAL CODE (CEC)

DOW
BRAND
Styrofoam
UTILITYFIT
15 PSI SCORED INSULATION

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Transfer Pump

