

Final Report

Agricultural Targeted Runoff Management &
Notice of Discharge Grant Programs

Form 3400-189A (R 05/16)

Page 1 of 2

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

Pigeon Lake NWQI Project

Grant Number

TRC-WR10-68000-14B

Governmental Unit Name

Waupaca County Land & Water Conservation Dept.

County

Waupaca

Watershed Name

Pigeon River

12-Digit HUC

040302021103

Project Contact Name

Brian Haase

Phone Number

(715) 258-6482

E-mail Address

brian.haase@co.waupaca.wi.us

☒ 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

Michael & Robin Schultz

Animal Units

80

Nearest Receiving Waterbody

Unnamed Trib. to Pigeon Lake

Township

25

Range

14

E / W

E

Section

2

Quarter

SW

Quarter/Quarter

SW

Latitude

44.66406

Longitude

-88.775027

Compliance Requirements - 1

Chs. NR 151 or 243 Wis. Adm. Code
Notice Type

NR 151

Notice letter
attached

☐

Compliance achieved? If no,
explain in site information

☒ Yes ☐ No

Compliance determination
letter attached

☐

☒ 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	\$148,472.00	119.0	0	0
Waste Transfer Systems	1	No.	Code(s) 3,7,9,4	\$28,956.67	0	0	0
Barnyard Runoff Control Systems	1	No.	Code(s) 8,12	\$0.00	92.8	0	0
Milking Center Waste Control Systems	1	No.	Code(s) 7	\$2,080.00	0	0	0
Roof Runoff Systems	2	No.	Code(s) 8	\$0.00	0	0	0

Site Location Attachment - 1

Check the box if the required information for the site is attached:

☒ Photos of pre-and post-implementation of BMP(s)

☒ Load reduction modeling documents

☒ Aerial photo map of site with BMPs labeled

☐ Water quality monitoring results/summary, if applicable

Site Information - 1

Final Report

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Grant Type

Select Grant Type Small Scale Non Total Maximum Daily Load (TMDL)

Project Name & Location

Project Name

Pigeon Lake NWQI Project

Grant Number

TRC-WR10-68000-14B

Governmental Unit Name

Waupaca County Land & Water Conservation Dept.

County

Waupaca

Watershed Name

Pigeon River

12-Digit HUC

040302021103

Project Contact Name

Brian Haase

Phone Number

(715) 258-6482

E-mail Address

brian.haase@co.waupaca.wi.us

☒ 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

Ken Yaeger

Animal Units

73

Nearest Receiving Waterbody

Unnamed Trib. to Pigeon Lake

Township

25

Range

14

E / W

E

Section

16

Quarter

NE

Quarter/Quarter

NE

Latitude

44.646202

Longitude

-88.798142

Compliance Requirements - 1

Chs. NR 151 or 243 Wis. Adm. Code
Notice Type

NR 151

Notice letter
attached

☐

Compliance achieved? If no,
explain in site information

☒ Yes ☐ No

Compliance determination
letter attached

☐

☒ 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	\$0.00	54.46	0	0
Waste Transfer Systems	1	No.	Code(s) 3,7,9,4	\$0.00	0	0	0
Barnyard Runoff Control Systems	1	No.	Code(s) 8,12	\$62,903.70	93.3	0	0
Milking Center Waste Control Systems	1	No.	Code(s) 7	\$0.00	0	0	0
Roof Runoff Systems	4	No.	Code(s) 8	\$0.00	0	0	0

Site Location Attachment - 1

Check the box if the required information for the site is attached:

☒ Photos of pre-and post-implementation of BMP(s)

☒ Load reduction modeling documents

☒ Aerial photo map of site with BMPs labeled

☐ Water quality monitoring results/summary, if applicable

Site Information - 1

Final Report

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Page 1 of 2

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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							
Pigeon Lake NWQI Project							
Grant Number				Governmental Unit Name			
TRC-WR10-68000-14B				Waupaca County Land & Water Conservation Dept.			
County		Watershed Name		12-Digit HUC			
Waupaca		Pigeon River		040302021103			
Project Contact Name			Phone Number		E-mail Address		
Brian Haase			(715) 258-6482		brian.haase@co.waupaca.wi.us		
<input checked="" 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					Animal Units		Nearest Receiving Waterbody
Scott Reetz					330		Unnamed Trib. to Pigeon Lake
Township	Range	E / W	Section	Quarter	Quarter/Quarter	Latitude	Longitude
25	15	E	18	SE	SW	44.636371	-88.727355
Compliance Requirements - 1							
Chs. NR 151 or 243 Wis. Adm. Code Notice Type		Notice letter attached	Compliance achieved? If no, explain in site information			Compliance determination letter attached	
NR 151		<input type="checkbox"/>	<input checked="" type="radio"/> Yes <input type="radio"/> No			<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	Phosphorus lbs/yr	Nitrogen lbs/yr	Sediment Tons/yr
Manure Storage Systems	1	No.	Code(s) 3,4,9	\$201,481.00	74.91	0	0
Waste Transfer Systems	1	No.	Code(s) 3,7,9,4	\$0.00	0	0	0
Barnyard Runoff Control Systems	1	No.	Code(s) 8,12	\$73,629.00	131.7	0	0
Milking Center Waste Control Systems	1	No.	Code(s) 7	\$0.00	0	0	0
Roof Runoff Systems	2	No.	Code(s) 8	\$0.00	0	0	0
Well Decommissioning	1	No.	Code(s) 4	\$0.00	0	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

Final Report

Site Information - 1

Narrative space will expand to fit

The 3 sites that utilized TRM grant substitution funds belonged to Mike Schultz, Ken Yaeger and Scott Reetz. All three sites had BMP installations consisting of Manure Storage, Manure & Milkhouse Transfer, Barnyard Runoff Control and Clean Water Diversions. Construction of the projects occurred from summer of 2014 through the end of 2016. Funding for the projects was a combination of the TRM grant and EQIP funding through the Pigeon National Water Quality Initiative special project.

☒ 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


The original TRM substitution called for work at 5 locations. The three listed above along with the Scott Reetz Heifer facility and the Dave Steenbock farm. Reetz's heifer and Steenbock's farm had the same resource concerns as the other three farms that used the TRM substitution funds. However, after payment of the first three projects there was not enough TRM funds leftover (~\$16,000) for the Steenbock project, which was also completed in 2016, so Waupaca County utilized DATCP SWRM funding for the practices or portions of practices that EQIP funding did not cover. The Reetz heifer facility was also originally planned to also have Manure Storage, Barnyard Runoff and Clean Water Diversions installed. During the construction phase of the Reetz home facility Waupaca County and NRCS conservation staff as well as the landowner determined it would be more environmentally beneficial and cost effective to relocate the heifers to the home facility and create a roofed barnyard to accommodate them. The planned manure storage at the home site was sized to fit the plan change. NRCS had to cancel the 2014 Reetz heifer contract and reapply for the roofed barnyard in a subsequent sign up. The project is planned for 2017 using EQIP funds. The original Reetz heifer facility will be abandoned with deed restrictions at that time.

Please note that all construction BMP's and environmental benefits were listed in the summary results for each of the three farms using TRM funds however some of the practices show a zero dollar cost if they were completely funded by EQIP. All contracts also included Nutrient Management as well.

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	03/01/2017

For DNR Use Only

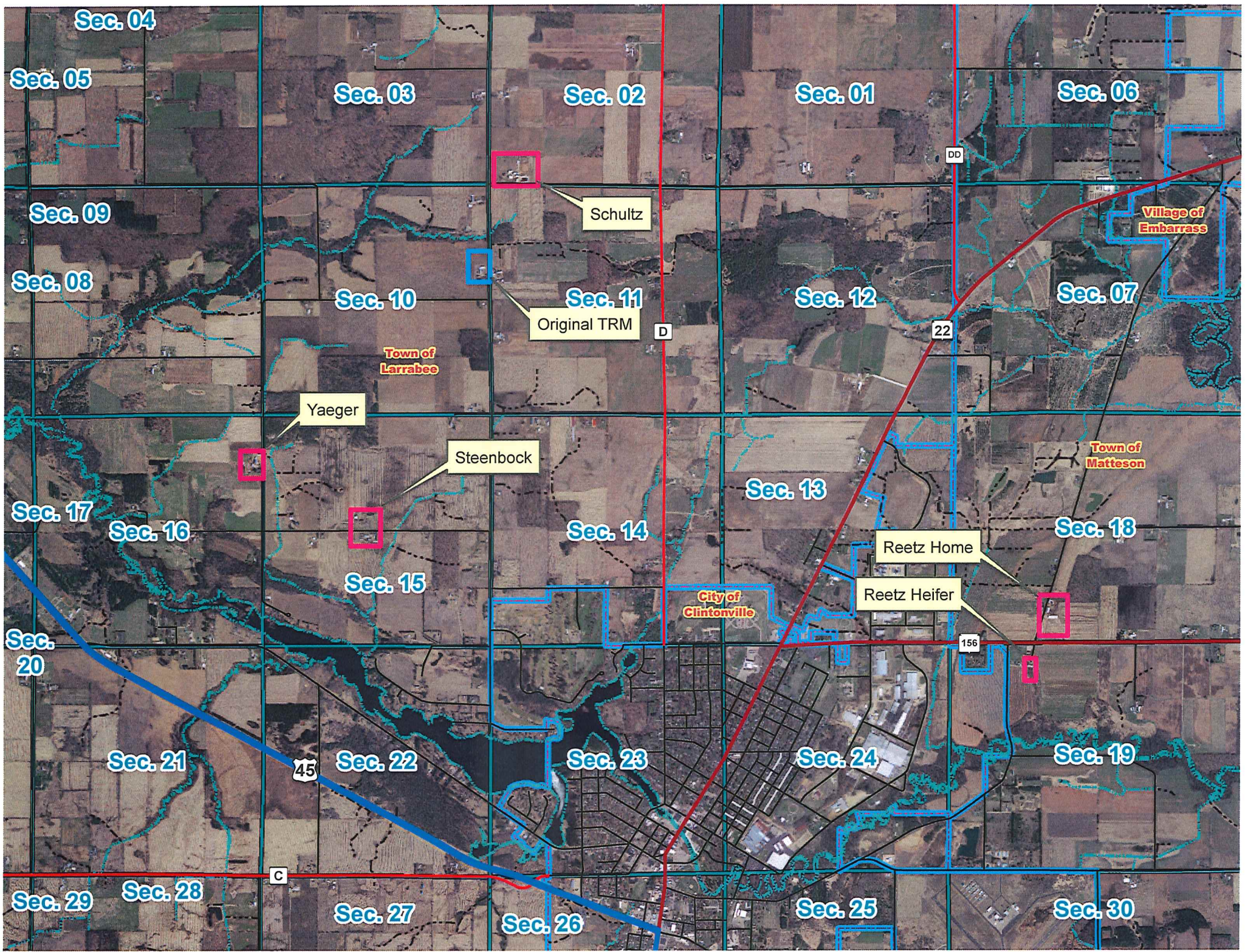
☒ Received complete reports with all attachments ☒ Practices implemented were consistent with the grant agreement

Comments about this project:

None.

Name of Region Nonpoint Source Coordinator	Date
Erin Hanson	03/01/17

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
Denyse Draeger
Program Assistant
Corey Schuelke
Engineering Technician
Greg Peterson
Engineering Technician
Dan McFarlane
Engineering Technician/GIS
Stefan Stultz
Nutrient Mngmt. Specialist

March 10th, 2015

Michael & Robin Schultz
E8930 Laude Rd
Clintonville, WI 54929

Michael & Robin,

Waupaca County is required to inform you in writing, as part of the Targeted Runoff Management (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. This agreement provided cost-sharing for your manure storage and barnyard runoff management project. These standards and prohibitions are outlined in Subchapter II (NR 151.02-NR 151.09) 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.

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 either DNR or DATCP 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: Schultz

Planner/Designer: DM

Date: 2/28/17

	Input	Output	
Closest City of similar climate:	<u>2</u>		1 Madison 2 Appleton 3 Wausau 4 Eau Claire
Paved lot area:	<u>8,085</u>	sq ft	
Earth lot area:	<u>6,060</u>	sq ft	
Animal Lot size:		14,145 sq ft	
Is there a designed settling basin?	<u>2</u>	Yes= 1; No= 2	
Animals on lot:	<u>40</u> number	<u>20</u> number	
Type of animal:	<u>1</u>	<u>1</u>	(Dairy = 1; Beef=2)
Ave. Animal Weight:	<u>1,400</u> lbs	<u>700</u> lbs	
Lot Use:	<u>1</u>		1= Heavy;2=Med;3= Light)

TRIBUTARY AREAS

Tributary area: 6,476 sq ft

Runoff Curve Number: 85

Roof Trib. area: 5,435 sq ft

sq ft

See RCN tab below
for typical values

109.3 lbs P per year
at downstream lot edge

Enter Existing Buffer Data:

Length: 100 ft

Width: 20 ft

Buffer area:

Slope: 1 %

c value 0.05 For c values see table below

P Output:

92.8 lb

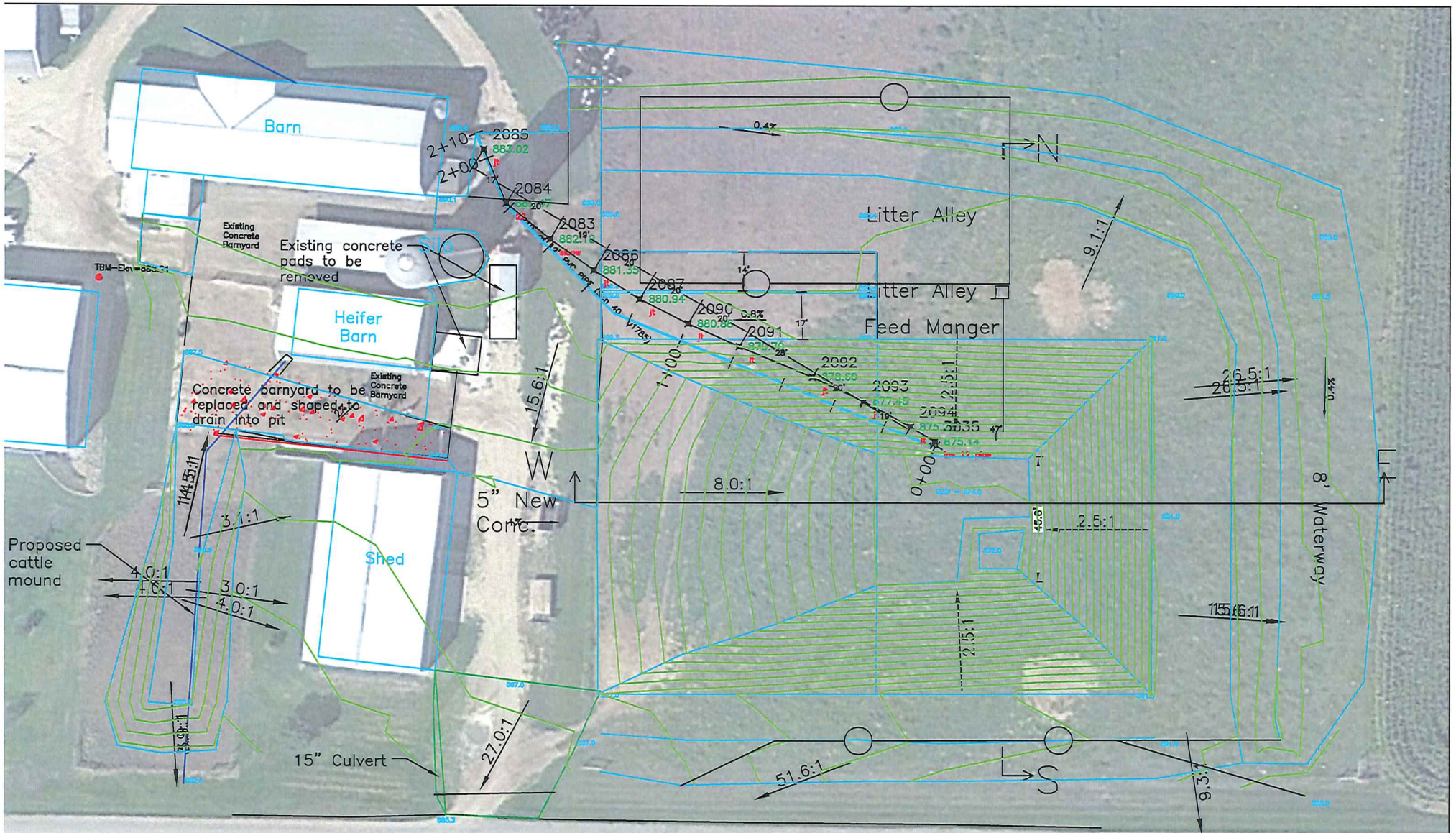
SnapPlus Annual PI Report

Reported For	Mike Schultz
Printed	2017-02-24
Plan Completion/Update Date	2016-03-13
SnapPlus Version 16.3 built on 2016-10-31	
V:\LWCD\Stefan\ProgramMonitoring_FPandNMPs\Nutrient_Management\SchultzMike and John\Schultz_TRM\Mike Schultz-snap-plus files.snapDb	

Prepared for:
Mike Schultz
attn:Mike Schultz
E8930 Laude Rd.
Clintonville, 54929

Field Name	Soil Series & Symbol (critical)	Slope	Tillage	Rot Avg PI	PI	2013	2014	2015	Diff 14 to 15	Acres	Diff x Acres
1	TILLEDA TIB	4	None-None- None	0	Total Particulate Soluble	0.2 0.1 0.1	0.2 0.1 0.2	0.1 0.0 0.1	- .1	20.1	- 2.00
2	TILLEDA TIC2	9	FCND-FCND- None	3	Total Particulate Soluble	5.6 4.1 1.5	1.4 1.1 0.2	1.5 1.0 0.5	+ .1	19.1	+1.91
3	TILLEDA TIC2	9	FCND-SCND- FCND	3	Total Particulate Soluble	3.9 2.4 1.5	4.9 1.9 3.0	0.9 0.8 0.1	- 4.0	23.6	-94.40
5	TILLEDA TIB	4	FCND-FCND- None	2	Total Particulate Soluble	3.9 2.0 1.9	1.8 0.7 1.2	1.2 0.6 0.5	- .6	6.4	-3.84
6	TILLEDA TIC2	9	None-FCND- SFC	2	Total Particulate Soluble	1.1 0.8 0.3	3.8 3.4 0.4	1.8 1.6 0.2	- 2.0	18.3	-36.60
7	TILLEDA TIB	4	None-None- FCD	1	Total Particulate Soluble	0.8 0.5 0.3	1.1 0.4 0.7	2.0 1.9 0.1	+ .9	17.7	+15.93

Change Total = 119.0



Laude Rd

SITE VIEW

© 2014 Google

Imagery Date



SCALE
1" = 50'

Mike Schultz

OWNER

WAUPACA COUNTY
COUNTY

Designed: _____ Checked: _____

Date: 4/2014

SHEET 6 OF 27

Schultz m.s.



10 02 2014

Schultz Transfer



10 02 2014

Schultz Milkhouse Transfer



Schultz Barnyard



10 02 2014

Schulte Barnyard Containment



Schultz Diversion, Cattle Crossing
Pit + BY



10 02 2014

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 Stultz
Nutrient Mngmt. Specialist

August 21, 2015

Ken Yaeger
N11209 Yaeger Rd
Clintonville, WI 54929

Ken,

Waupaca County is required to inform you in writing, as part of the Targeted Runoff Management (TRM) grant process, of your obligation to maintain compliance with the applicable state agricultural performance standards and prohibitions that were addressed by the DNR TRM cost-share agreement and DATCP LWRM Cost-share agreements. These agreement provided cost-sharing for your manure storage and barnyard runoff management project. These standards and prohibitions are outlined in Subchapter II (NR 151.02-NR 151.09) 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.

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 either DNR or DATCP 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: Yaeger

Planner/Designer: DM

Date: 2/28/17

	Input	Output	
Closest City of similar climate:	<input type="text" value="2"/>		1 Madison 2 Appleton 3 Wausau 4 Eau Claire
Paved lot area:	<input type="text" value="5,186"/>	sq ft	
Earth lot area:	<input type="text" value="16,054"/>	sq ft	
Animal Lot size:		21,240 sq ft	
Is there a designed settling basin?	<input type="text" value="2"/>		Yes= 1; No= 2
Animals on lot:	<input type="text" value="52"/>	number	
Type of animal:	<input type="text" value="1"/>	number	
Ave. Animal Weight:	<input type="text" value="1,400"/>	lbs	(Dairy = 1; Beef=2)
Lot Use:	<input type="text" value="1"/>		1= Heavy;2=Med;3=ight)

TRIBUTARY AREAS

Tributary area:	<input type="text" value="1,500"/>	sq ft	<input type="text"/>	sq ft	
Runoff Curve Number:	<input type="text" value="85"/>				<div style="border: 1px solid black; padding: 5px; display: inline-block;"> See RCN to below for typical vlues </div>
Roof Trib. area:	<input type="text" value="3,333"/>	sq ft			

93.3 lbs P per year
at downstream lot edge

Enter Existing Buffer Data:

Length:	<input type="text" value="0"/>	ft	
Width:	<input type="text" value="0"/>	ft	
Buffer area:			
Slope:	<input type="text" value="1"/>	%	
c value	<input type="text" value="0.22"/>	For c values see table below	

P Output:

93.3

 lb

SnapPlus Annual PI Report

Reported For	YaegerKen
Printed	2017-02-27
Plan Completion/Update Date	2001-01-01
SnapPlus Version	16.3 built on 2016-10-31
V:\LWCD\Stefan\ProgramMonitoring_FPandNMPs\Nutrient_Management\YaegerKen\Yaeger_TRM\YaegerKen.snapDb	

Prepared for:
YaegerKen
attn:YaegerKen

Field Name	Soil Series & Symbol (critical)	Slope	Tillage	Rot Avg PI	PI	2014	2015	2016	Diff 14 to 15	Acres	Diff ^x Acres
04	TILLEDATIB	4	FCD-FCD-FCD	4	Total Particulate Soluble	4.5 3.0 1.5	4.6 4.4 0.2	3.1 3.1 0.1	+1	7.3	+7.3
05	TILLEDATIB	4	SCD-SCD-SCD	4	Total Particulate Soluble	5.0 3.3 1.8	3.4 3.2 0.3	4.0 3.9 0.2	-1.6	11.5	-18.40
08	TILLEDATIB	4	FP-SCD-None	2	Total Particulate Soluble	4.3 4.1 0.2	2.0 1.8 0.2	0.8 0.7 0.2	-2.3	11.9	-27.37
15	TILLEDATIC2	9	None-None-None	1	Total Particulate Soluble	0.9 0.1 0.8	0.3 0.1 0.1	0.2 0.2 0.0	-.6	7.7	-4.62
21	TILLEDATIB	4	None-None-None	3	Total Particulate Soluble	3.7 1.1 2.6	2.7 1.1 1.6	3.2 1.3 2.0	-1.0	4.8	-4.8

Change Total = 54.46



SITE VIEW



SCALE:
1" = 50'

YAEGER

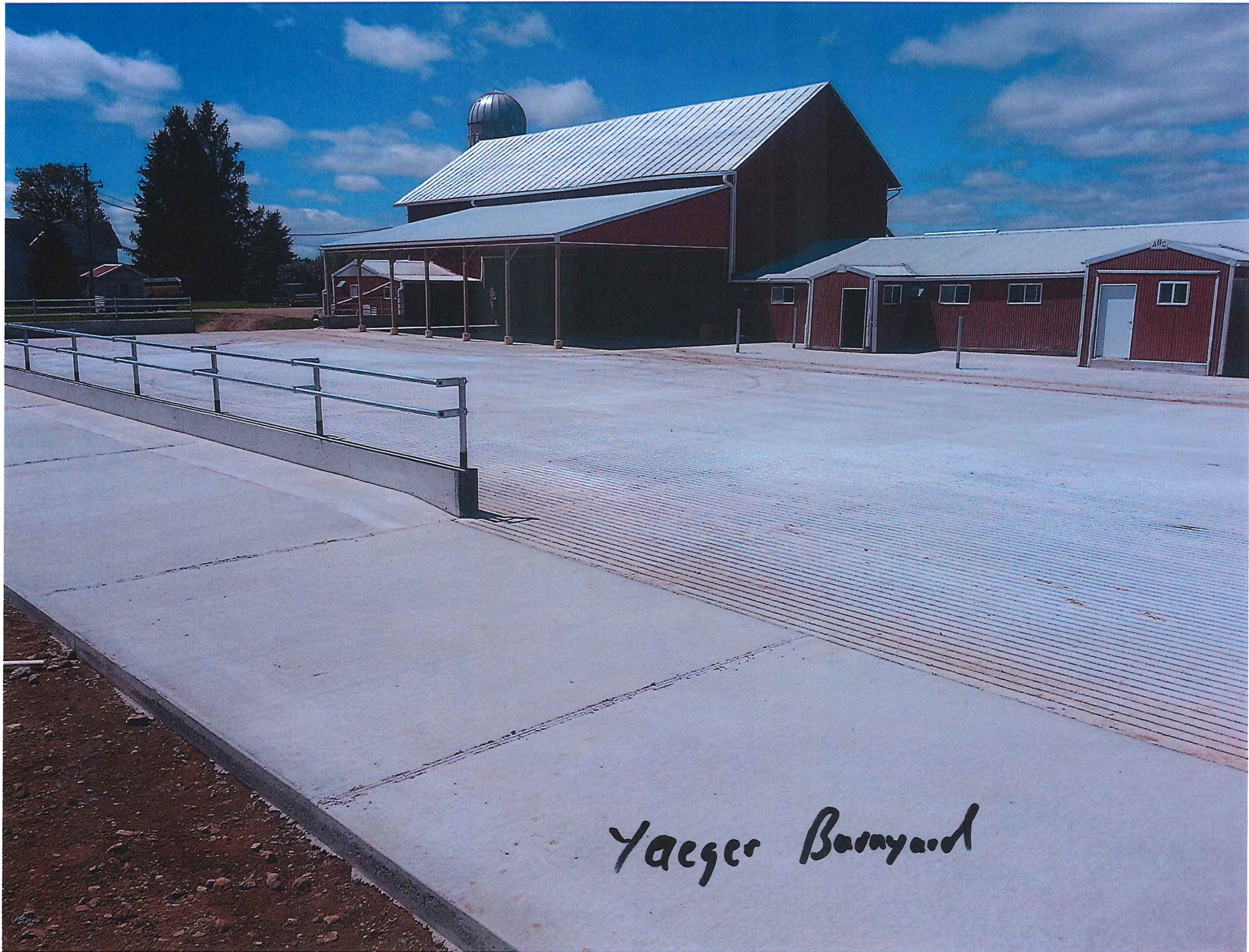
OWNER

WAUPACA COUNTY
COUNTY

Designed: _____ Checked: _____

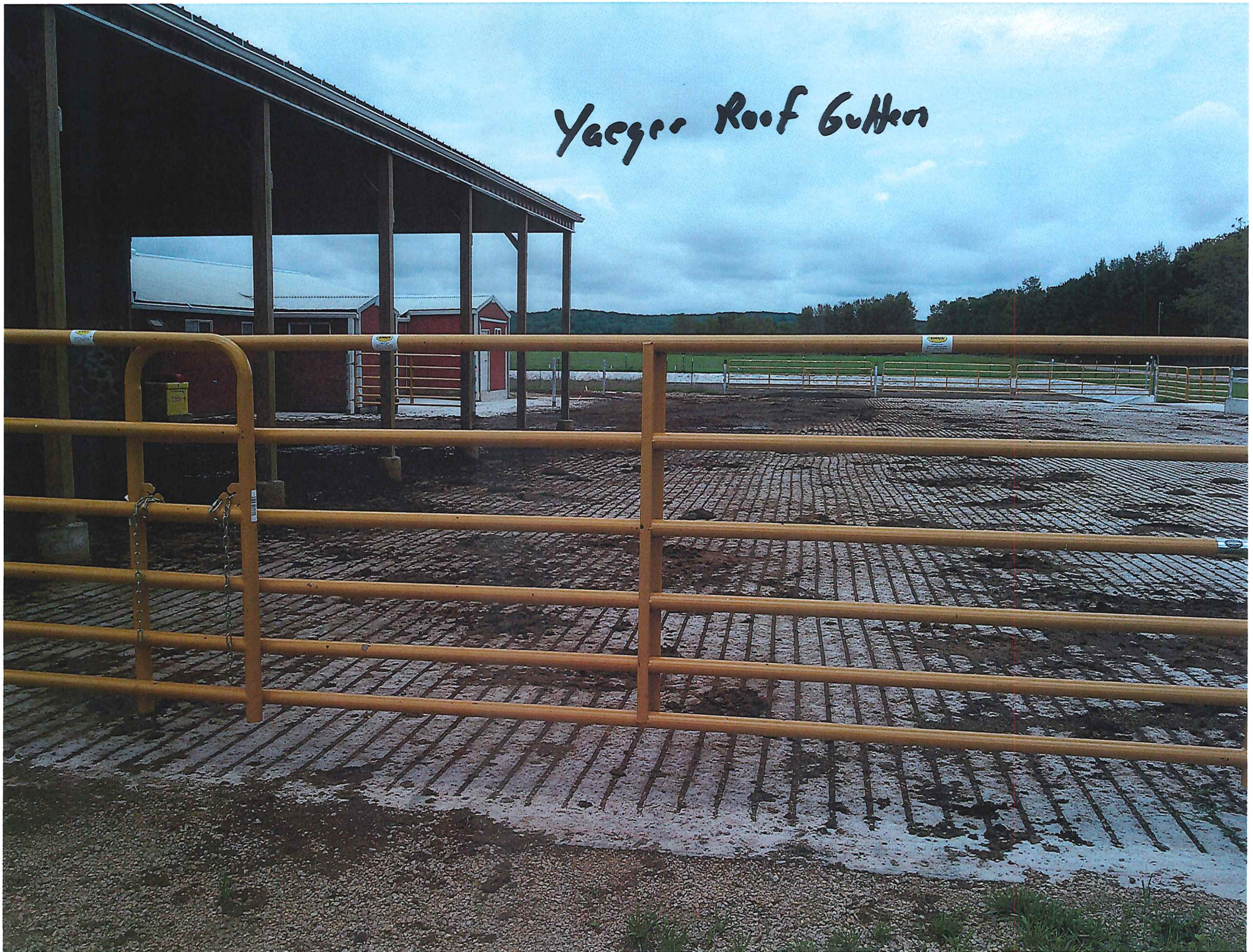
Date: _____

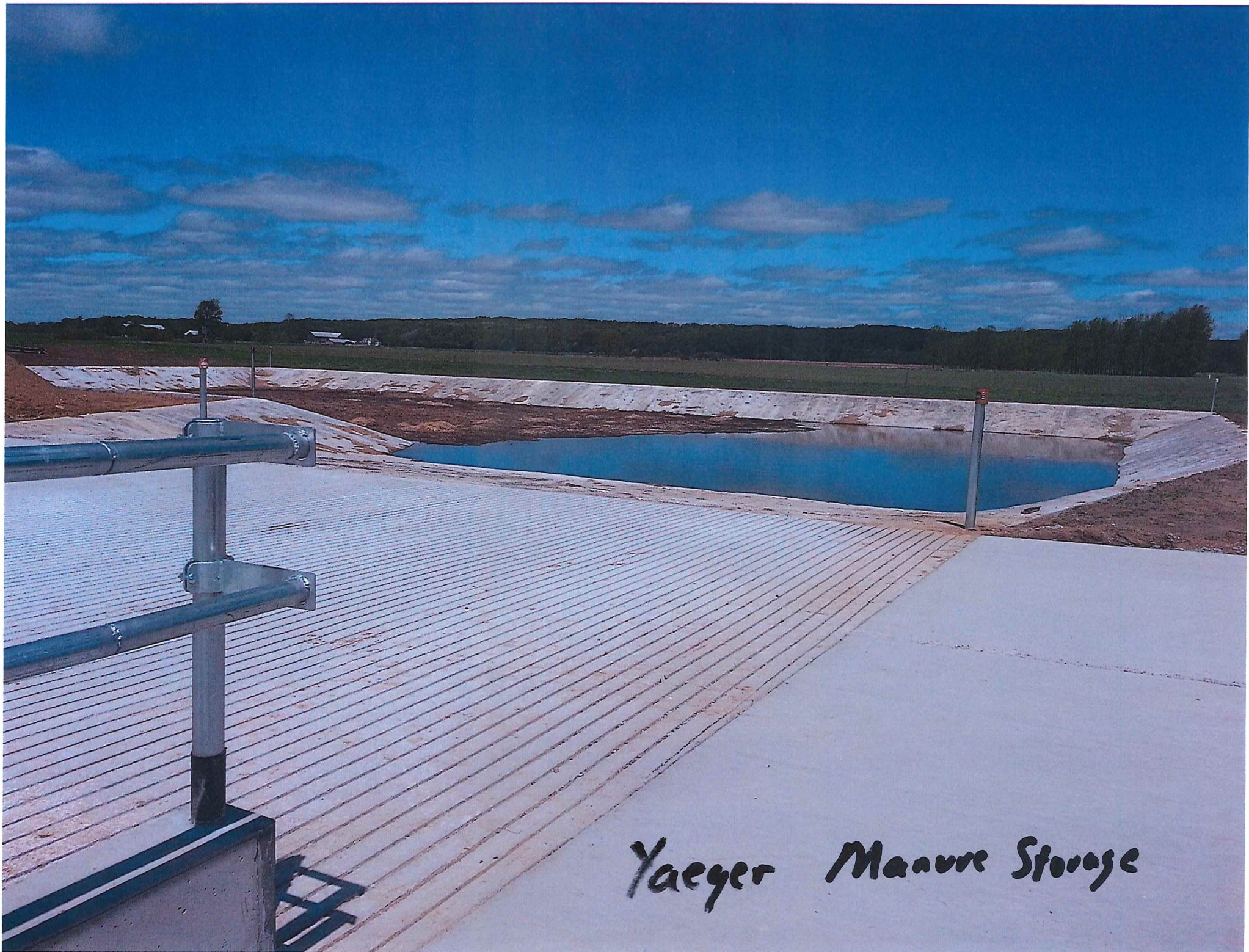
SHEET 6a OF 16



Yaeger Barnyard

Yaeger Roof Gutters





Yaeger Manure Storage



Yaeger Milkhouse
& Manure Transfer

11 10 2014

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

August 12th, 2016

Scott Reetz
N10961 Jepson Rd
Clintonville, WI 54929

Scott,

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: Reetz

Planner/Designer: DM

Date: 2/28/17

	Input	Output	
Closest City of similar climate:	<u>2</u>		1 Madison 2 Appleton 3 Wausau 4 Eau Claire
Paved lot area:	<u>0</u>	sq ft	
Earth lot area:	<u>30,800</u>	sq ft	
Animal Lot size:		30,800 sq ft	
Is there a designed settling basin?	<u>2</u>	Yes= 1; No= 2	
Animals on lot:	<u>75</u> number	<u>0</u> number	
Type of animal:	<u>1</u>		(Dairy = 1; Beef=2)
Ave. Animal Weight:	<u>1,400</u> lbs	lbs	
Lot Use:	<u>1</u>		1= Heavy; 2=Med; 3= Light)

TRIBUTARY AREAS			
Tributary area:	<u>14,800</u>	sq ft	
Runoff Curve Number:	<u>68</u>	<u> </u>	← See RCN table below for typical values
Roof Trib. area:	<u>6,318</u>	sq ft	
			131.7 lbs P per year at downstream lot edge

Enter Existing Buffer Data:			
Length:	<u>0</u>	ft	
Width:	<u>0</u>	ft	
Buffer area:			
Slope:	<u>1</u>	%	
c value	<u>0.15</u>	For c values see table below	

P Output:	<u>131.7</u>	lb
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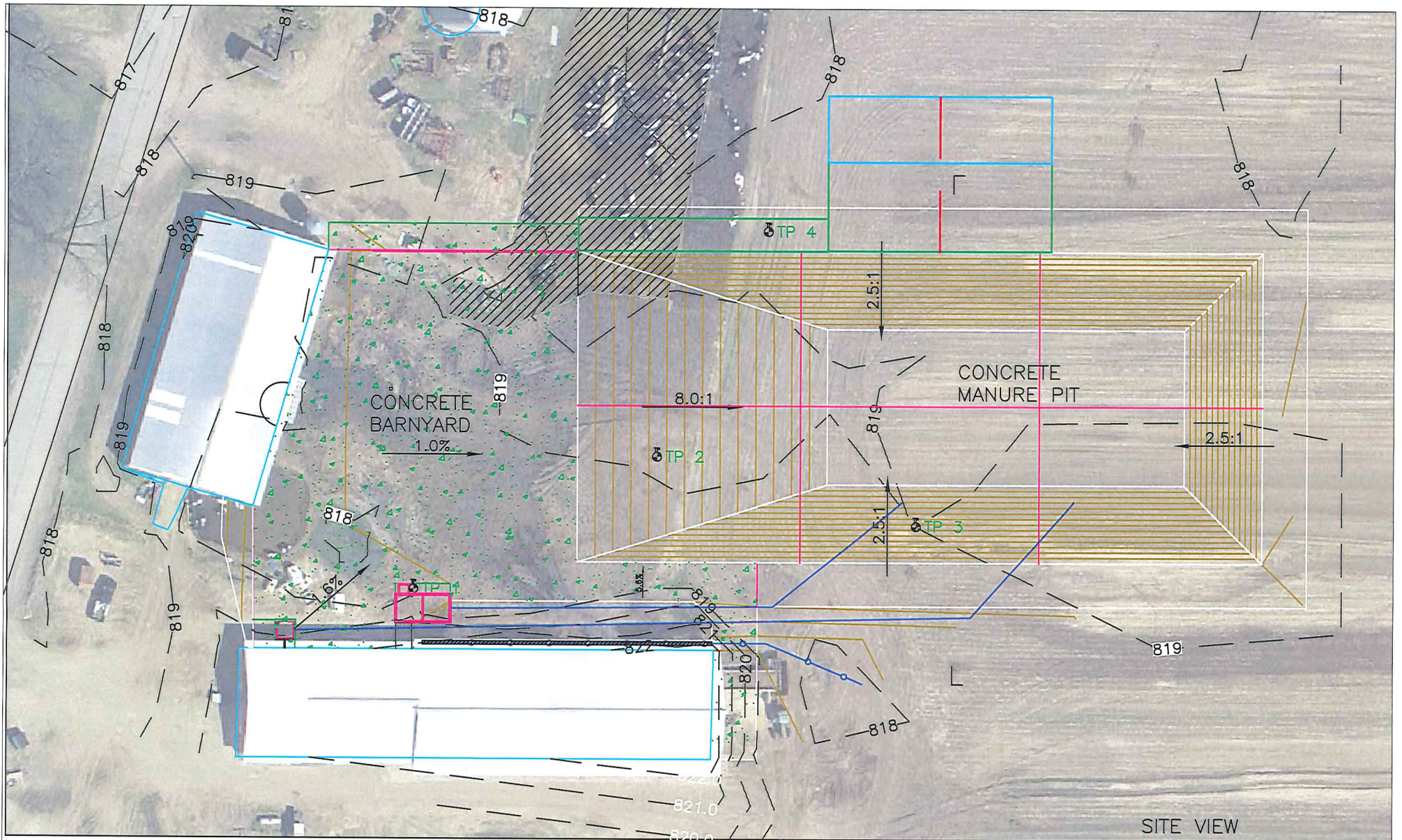
SnapPlus Annual PI Report

Reported For	Reetz_Scott
Printed	2017-02-27
Plan Completion/Update Date	2001-01-01
SnapPlus Version 16.3 built on 2016-10-31	
V:\LWCD\Stefan\ProgramMonitoring_FPandNMPs\Nutrient_Management\ReetzScott\Reetz_TRM\Reetz_Scott.snapDb	

Prepared for:
Reetz_Scott
attn:Reetz_Scott

Field Name	Soil Series & Symbol (critical)	Slope	Tillage	Rot Avg PI	PI	2014	2015	2016	Diff. 14 to 15	Acres	Diff. Acres
07	HORTONVILLE HnB	4	SFC-SFC-SFC	5	Total Particulate Soluble	6.7 1.6 5.1	7.1 3.2 3.8	1.3 1.0 0.2	+ .4	17.2	+ 6.88
10	HORTONVILLE HnB	4	SFC-SFC-SFC	6	Total Particulate Soluble	6.5 4.4 2.1	5.7 4.4 1.3	4.8 4.0 0.8	- .8	10.0	- 8.00
11	HORTONVILLE HnB	4	SCD-SCD-SCD	5	Total Particulate Soluble	5.9 4.9 1.1	5.8 4.6 1.1	3.6 3.2 0.4	- .1	7.8	- .78
13	HORTONVILLE HnB	4	SFC-SFC-None	5	Total Particulate Soluble	7.3 1.7 5.7	4.9 1.6 3.2	2.4 0.9 1.4	- 2.4	21	- 50.4
14	HORTONVILLE HnB	4	SFC-SFC-SFC	7	Total Particulate Soluble	8.7 6.2 2.4	6.8 5.3 1.4	6.2 5.0 1.2	- 1.9	11.9	- 22.61

Change Total = 74.91



1" = 60'

REETZ

OWNER

WAUPACA

COUNTY

Designed: DM

Checked:

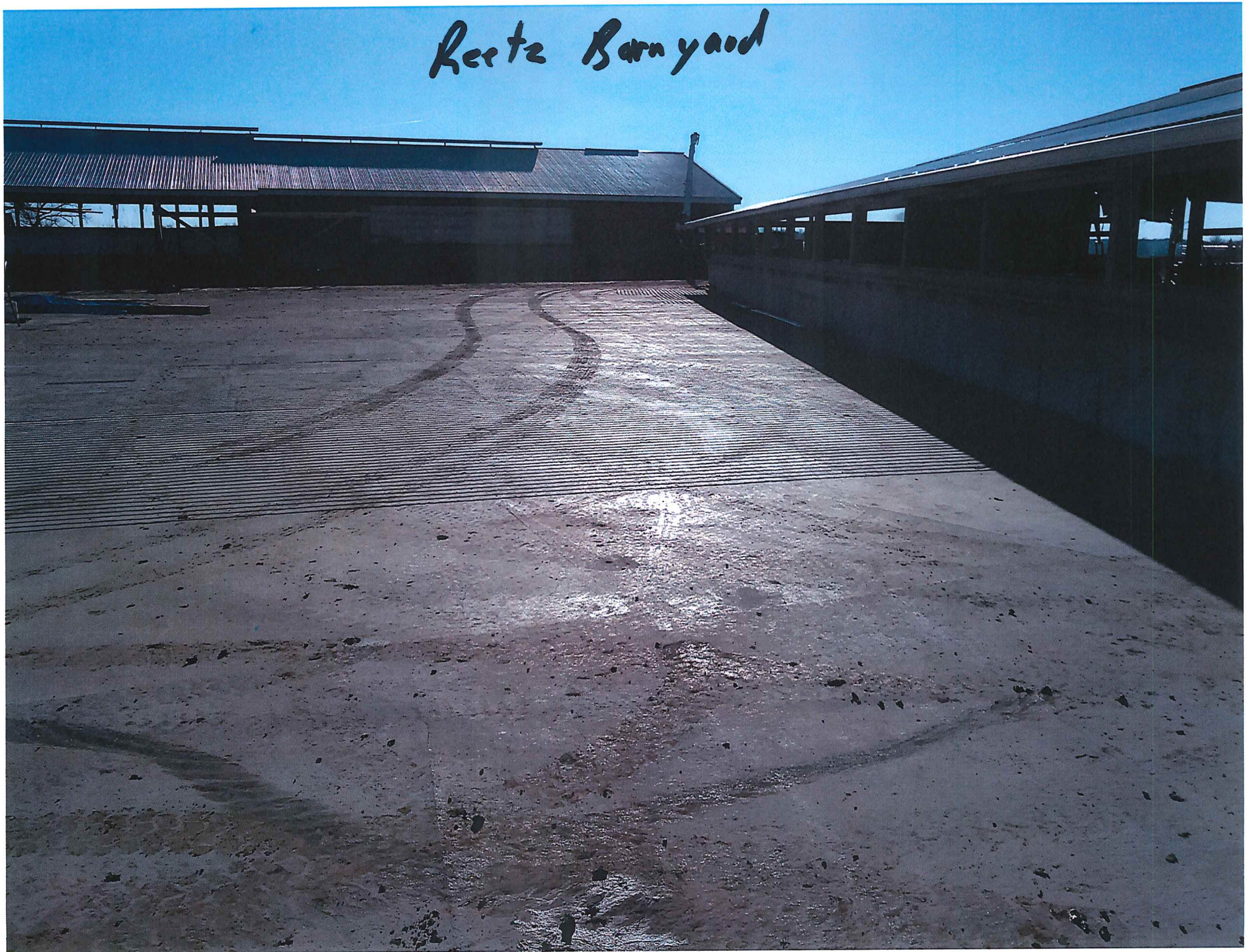
Date:

SHEET 4 OF 18

Reetz Manure Storage



Reetz Barnyard



Reetz Barnyard





Rertz Transfers