

Wisconsin Department of Natural Resources  
Bureau of Watershed Management (WT/3)  
101 S. Webster Street  
PO Box 7921  
Madison, WI 53707-7921  
[dnr.wi.gov](http://dnr.wi.gov)

**Final Report**

Agricultural Targeted Runoff Management &  
Notice of Discharge Grant Programs

Form 3400-189A (R 01/20)

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)** ▾**Grant Information**

Grantee - Governmental Unit Name <b>Outagamie County</b>		Grant Number <b>TRC44000T17C</b>
Project Name <b>Christopher Volkman</b>		
Project Contact Name <b>Greg Baneck</b>	Phone Number <b>(920) 832-5074</b>	E-mail Address <b>greg.baneck@outagamie.org</b>

**Site 1 - Location & Watershed Information**

Additional sites may be added to the project by clicking on the [+Loc] button

Name of Cost-Share Recipient <b>Christopher Volkman</b>		Animal Units <b>308</b>	Latitude <b>44.415</b>	Longitude <b>-88.4833</b>
County <b>Outagamie</b> ▾	12-Digit HUC <b>040302021403</b> ▾	12-Digit Watershed Name <b>Village of Shiocton-Wolf River</b>		
Nearest Receiving Waterbody <b>Unnamed trib to Wolf River</b>		Primary Waterbody addressed by project <b>Wolf River</b>		

**Site 1 - BMP & Load Reduction Information**

Additional BMPs for this site may be added by clicking on the [+] button

Best Management Practice Installed	Quantity	Unit of Measure	Performance Standard/Prohibition Addressed	Load Reduction			Total Installation Cost
				Phosphorus lbs/yr	Nitrogen lbs/yr	Sediment Tons/yr	
<input checked="" type="checkbox"/> Manure Storage Systems	1	No.	Code(s) 9,11,12	139.3	254.5	0	\$218,618.80
<input checked="" type="checkbox"/> Milking Center Waste Control Systems	1	No.	Code(s) 7				\$5,228.80
<input checked="" type="checkbox"/> Access Roads & Cattle Crossings	1	Feet	Code(s) 9				\$31,664.00
<input checked="" type="checkbox"/> Waste Transfer Systems	1	No.	Code(s) 9				\$101,776.00

**Model(s)/Methods Used to Calculate Load Reduction (check all that apply)**
☒ STEPL ☐ SNAP+ ☐ BARNY ☐ RUSLE 2 ☐ Other (specify) \_\_\_\_\_
**Site 1 - Compliance Requirements**

Performance Standard or Prohibition Addressed	Chs. NR 151 or 243 Wis. Adm. Code Notice Type	Notice Letter Attached?	Compliance Achieved?	Compliance letter attached?
Process wastewater handling.	NR 151 ▾	Yes ▾	Yes ▾	Yes ▾
Nutrient management.	NR 151 ▾	Yes ▾	Yes ▾	Yes ▾
Prohibit unconfined manure pile in WQMA.	NR 151 ▾	Yes ▾	Yes ▾	Yes ▾
Prohibit runoff from feedlot or stored manure into the state's waters.	NR 151 ▾	Yes ▾	Yes ▾	Yes ▾

**Check all of the true statements below.**

- ☒ 1. A copy the compliance letter for site 1 has been placed in county files.
2. The attached compliance letter for site 1:
- ☒ a. has been provided by the county to the landowner and cost-share recipient;
  - ☒ b. identifies each of the performance standards & prohibitions (PS&Ps) on cropland and livestock facilities brought into compliance by the project, and listed in the table above;
  - ☒ c. identifies the name and location of the facility where compliance has been achieved; and
  - ☒ d. states that the landowner is obligated to maintain compliance with each PS&P addressed by the project in perpetuity regardless of future cost sharing.

**Site 1 - Required attachments**



## Final Report

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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 1 - Information

Narrative space will expand to fit

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

[+ Loc](#)

### Additional Project Information and/or Comments

Narrative space will expand to fit

### 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

Gregory J. Baneck

County Conservationist

10/20/2020

### For DNR Use Only

☒ Received complete reports with all attachments

☒ Practices implemented were consistent with the grant agreement

Comments about this project:

Name of Region Nonpoint Source Coordinator

Date

Eric Evensen

12/18/2020

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.



**Land Conservation**  
3365 W. Brewster St | Appleton, WI 54914  
(920) 832-5073 (920) 832-4783  
[www.outagamie.org](http://www.outagamie.org)

October 21, 2020

VOLKMAN, CHRISTOPHER M & VOLKMAN, MANDY  
W5792 KRUEGER RD  
BLACK CREEK, WI 54106

Dear Property Owner,

The purpose of this letter is to acknowledge that you have implemented the necessary corrective actions to comply with the Notice of Non-Compliance dated September 12, 2019 for your property described as

**SW NE LY E OF RR SEC5 T22N R17E 28.09AC M/L DR DIST 26.38AC #1989214 & #1996757 & #1996758**

Outagamie County Parcel ID: **040011200**

The department has determined the installed practices of Waste Storage Facility, Waste Transfer, Milking Center Waste Control System and Access Road at your operation to be adequate to meet Agricultural Performance Standards and Prohibitions on the area described below.

As a result of installing the best management practices necessary to comply with the aforementioned Notice, the department has determined that you are now in compliance with the following:

**NR151            Prohibition: Prevention of direct runoff from a feedlot or stored manure into waters of the state.**

A livestock operation shall have no direct runoff from a feedlot or stored manure into the waters of the state.

In accordance with Outagamie County Chapter 4, Agricultural Performance Standards and Animal Waste Storage Ordinance as well as Chapter NR 151, Wisconsin Administrative Code, any practice or facility that is in compliance with a Performance Standard or Prohibition on or

after the effective date of the standard or prohibition, must remain in compliance regardless of whether cost-sharing is provided to the owner or operator. Since you are now deemed in compliance with the Performance Standards and Prohibition for this site listed above, it is imperative that you and any future owners or operators maintain compliance with them.

Your efforts in this matter have contributed to improved water quality within Outagamie County. If you have any further questions or concerns, please contact me at (920) 832-5074.

Sincerely,

A handwritten signature in black ink, appearing to read "Gregory Baneck". The signature is fluid and cursive, with the first name "Gregory" and last name "Baneck" clearly distinguishable.

Gregory Baneck  
County Conservationist



STEPL Input Sheet:

Values in RED are required input. Change worksheets by clicking on tabs at the bottom. You entered 1 subwatershed(s).

This sheet is composed of eight input tables. The first four tables require users to change initial values. The next four tables (initially hidden) contain default values users may choose to change.

Step 1: Select the state and county where your watersheds are located. Select a nearby weather station. This will automatically specify values for rainfall parameters in Table 1 and USLE parameters in Table 4.

Step 2: (a) Enter land use areas in acres in Table 1; (b) enter total number of agricultural animals by type and number of months per year that manure is applied to croplands in Table 2; (c) enter values for septic system parameters in Table 3; and (d) if desired, modify USLE parameters associated with the selected county in Table 4.

Step 3: You may stop here and proceed to the BMPs sheet. If you have more detailed information on your watersheds, click the Yes button in row 10 to display optional input tables.

Step 4: (a) Specify the representative Soil Hydrologic Group (SHG) and soil nutrient concentrations in Table 5; (b) modify the curve number table by landuse and SHG in Table 6; (c) modify the nutrient concentrations (mg/L) in runoff in Table 7; and (d) specify the detailed land use distribution in the urban area in Table 8.

Step 5: Select BMPs in BMPs sheet. Step 6: View the estimates of loads and load reductions in Total Load and Graphs sheets.

Export input/output data:

Export Data

☐ Treat all the subwatersheds as parts of a single watershed

☐ Groundwater load calculation

State

County

Weather Station

Wisconsin

Outagamie

\_WI-Outagamie\_Mean

Calculate Manure Application

Manure Application

1. Input watershed land use area (ac) and precipitation (in)									Rain correction factors		
Watershed	Urban	Cropland	Pastureland	Forest	User Defined	Feedlots	Feedlot Percent	Total	Annual Rainfall	Rain Days	Avg. Rain/Eve
W1	0	275	0	0	0	0	0-24%	275	30	114	0.555

2. Input agricultural animals										
Watershed	Beef Cattle	Dairy Cattle	Swine (Hog)	Sheep	Horse	Chicken	Turkey	Duck	# of months manure applied on Cropland	# of months manure applied on
W1	0	308	0	0	0	0	0	0	2	0
Total	0	308	0	0	0	0	0	0		

3. Input septic system and illegal direct wastewater discharge data					
Watershed	No. of Septic Systems	Population per Septic System	Septic Failure Rate, %	Wastewater Direct Discharge, # of People	Direct Discharge Reduction, %
W1	0	2.43	2	0	0

4. Modify the Universal Soil Loss Equation (USLE) parameters																				
Watershed	Cropland					Pastureland					Forest					User Defined				
	R	K	LS	C	P	R	K	LS	C	P	R	K	LS	C	P	R	K	LS	C	P
W1	100.000	0.301	0.288	0.200	1.000	100.000	0.301	0.288	0.040	1.000	100.000	0.301	0.288	0.003	1.000	100.000	0.301	0.288	0.142	1.000

Optional Data Input:

5. Select average soil hydrologic group (SHG), SHG A = highest infiltration and SHG D = lowest infiltration									
Watershed	SHG A	SHG B	SHG C	SHG D	SHG Selected	Soil N conc.%	Soil P conc.%	Soil BOD conc.%	Soil E. coli conc. (#/100mg)
W1					C	0.080	0.031	0.160	0.000

6. Reference runoff curve number (may be modified)

6a. Detailed urban reference runoff curve number (may be modified)

SHG	A	B	C	D
Urban	83	89	92	93
Cropland	67	78	85	89
Pastureland	49	69	79	84
Forest	39	60	73	79
User Defined	50	70	80	85

7. Nutrient concentration in runoff (mg/l) and E. coli (MPN/100ml)				
Land use	N	P	BOD	E. coli
1. L-Cropland	1.9	0.3	4	0
1a. w/ manure	8.1	2	12.3	0
2. M-Cropland	2.9	0.4	6.1	0
2a. w/ manure	12.2	3	18.5	0
3. H-Cropland	4.4	0.5	9.2	0
3a. w/ manure	18.3	4	24.6	0
4. Pastureland (see Table 10 for default values with manure)				
5. Forest	0.2	0.1	0.5	0
6. User Defined	0	0	0	0

Urban\SHG	A	B	C	D
Commercial	89	92	94	95
Industrial	81	88	91	93
Institutional	81	88	91	93
Transportation	98	98	98	98
Multi-Family	77	85	90	92
Single-Family	57	72	81	86
Urban-Cultivated	67	78	85	89
Vacant-Developed	77	85	90	92
Open Space	49	69	79	84

7a. Nutrient concentration in shallow groundwater (mg/l) and E. coli (MPN/100ml)(may be modified)

Landuse	N	P	BOD	E. coli
Urban	1.5	0.063	0	0
Cropland	1.44	0.063	0	0
Pastureland	1.44	0.063	0	0
Forest	0.11	0.009	0	0
Feedlot	6	0.07	0	0
User-Defined	0	0	0	0

8. Input or modify urban land use distribution											
Watershed	Urban Area (ac.)	Commercial %	Industrial %	Institutional %	Transportation %	Multi-Family %	Single-Family %	Urban-Cultivated	Vacant (developed)	Open Space %	Total % Area
W1	0	15	10	10	10	10	30	5	5	5	100

9. Input irrigation area (ac) and irrigation amount (in)					
Watershed	Total Cropland (ac)	Cropland: Acres Irrigated	Water Depth (in) per Irrigation - Before BMP	Water Depth (in) per Irrigation - After BMP	Irrigation Frequency (#/Year)
W1	275	0	0	0	0

10. Pastureland Nutrient concentration in runoff (mg/l) and E. coli (MPN/100ml)

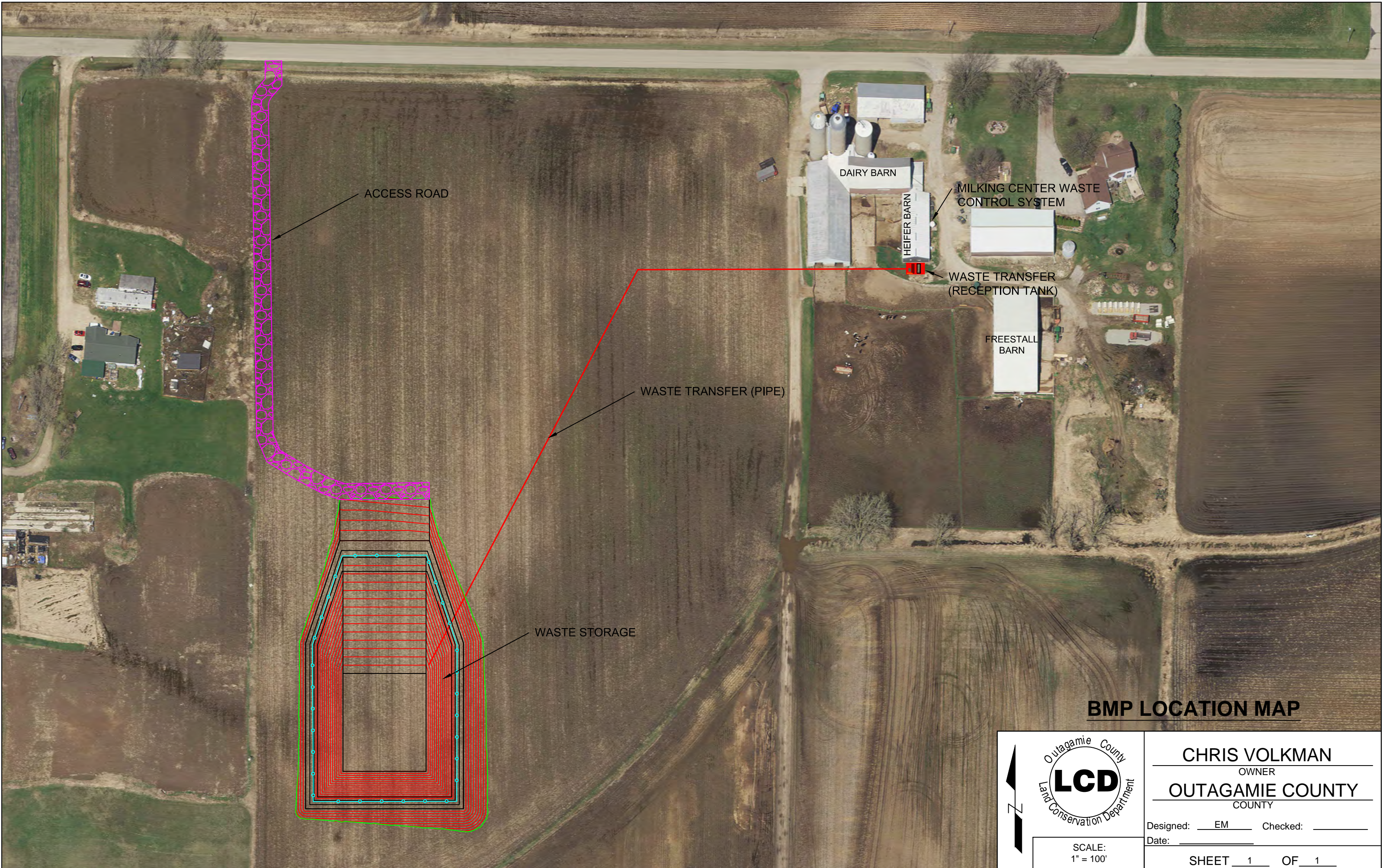
Land use	N	P	BOD	E. coli
1. L-Pastureland	4	0.3	13	0
1a. w/ manure	4	0.3	13	0
2. M-Pastureland	4	0.3	13	0
2a. w/ manure	4	0.3	13	0
3. H-Pastureland	4	0.3	13	0
3a. w/ manure	4	0.3	13	0

Input Ends Here.

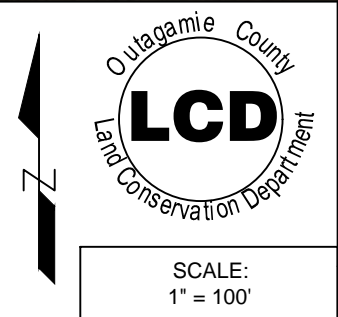
1. Total load by subwatershed(s)																				
Watershed	N Load (no BMP)	P Load (no BMP)	BOD Load (no BMP)	Sediment Load (no BMP)	E. coli Load (no BMP)	N Reduction	P Reduction	BOD Reduction	Sediment Reduction	E. coli Reduction	N Load (with BMP)	P Load (with BMP)	BOD (with BMP)	Sediment Load (with BMP)	E. coli Load (with BMP)	%N Reduction	%P Reduction	%BOD Reduction	%Sed Reduction	%E. coli Reduction
	lb/year	lb/year	lb/year	t/year	Billion MPN/yr	lb/year	lb/year	lb/year	t/year	Billion MPN/yr	lb/year	lb/year	lb/year	t/year	Billion MPN/yr	%	%	%	%	%
W1	2172.0	509.4	4071.6	162.2	0.0	254.5	139.3	0.0	0.0	0.0	1917.5	370.1	4071.6	162.2	0.0	11.7	27.3	0.0	0.0	0.0
Total	2172.0	509.4	4071.6	162.2	0.0	254.5	139.3	0.0	0.0	0.0	1917.5	370.1	4071.6	162.2	0.0	11.7	27.3	0.0	0.0	0.0

2. Total load by land uses (with BMP)					
Sources	N Load (lb/yr)	P Load (lb/yr)	BOD Load (lb/yr)	Sediment Load (t/yr)	E. coli Load (Billion MPN/yr)
Urban	0.00	0.00	0.00	0.00	0.00
Cropland	1917.48	370.12	4071.65	162.25	0.00
Pastureland	0.00	0.00	0.00	0.00	0.00
Forest	0.00	0.00	0.00	0.00	0.00
Feedlots	0.00	0.00	0.00	0.00	0.00
User Defined	0.00	0.00	0.00	0.00	0.00
Septic	0.00	0.00	0.00	0.00	0.00
Gully	0.00	0.00	0.00	0.00	0.00
Streambank	0.00	0.00	0.00	0.00	0.00
Groundwater	0.00	0.00	0.00	0.00	0.00
Total	1917.48	370.12	4071.65	162.25	0.00





**BMP LOCATION MAP**

	<b>CHRIS VOLKMAN</b> OWNER	
	<b>OUTAGAMIE COUNTY</b> COUNTY	
	Designed: <u>EM</u>	Checked: <u>          </u>
Date: <u>          </u>		SHEET <u>1</u> OF <u>1</u>
SCALE: 1" = 100'		



Volkman - March 2016

Daily hauling manure during wet conditions.



Future site of manure storage.





## Volkman - June 2015

Complaint received on large manure stack in field. Stack was determined to be too large and not enough % solids per their existing 590 plan.





**VOLKMAN – SEPTEMBER 2019**

Manure stack complaint. Manure running off into ditches on three sides of stack location.

Violation of his nutrient management plan.



Sep 12, 2019 at 9:55 AM



## Chris Volkman – Milking Center Waste Control System





# Chris Volkman – Waste Transfer





# Chris Volkman – Waste Storage Facility

