

Drainage Water Management (DWM) Conservation Activity Plan (CAP)

Landowner: _____

Farm: _____

County: _____

Field Number / Identifier: _____

This Drainage Water Management (DWM) Plan is an important part of the conservation management system for your farm. The DWM Plan documents the planning decisions and operation and maintenance for the drainage water control structures in this field. It includes:

- maps identifying the locations of the water control structures and impacted area of each structure
- sizes and elevations for each planned water control structures
- a schedule with target timing (e.g. planting, harvest, manure application) and elevations for each water control structure and recordkeeping guidance
- maintenance, inspection and repair requirements to ensure continued performance as planned

To the best of my professional knowledge, judgment and belief, this DWM Plan is in accordance with the NRCS Drainage Water Management Conservation Activity Plan Statement of Work.

Certified DWM Planner Signature

Date

I understand that this DWM Plan was developed and approved on the basis that I have disclosed to the DWM Planner to the best of my knowledge all information pertaining to the field(s) included in this plan. The DWM Planner is not responsible for data / information that I have knowingly denied or restricted information for any resource problem(s) that I have not disclosed. It is my responsibility to implement and manage my DWM Plan. If I do not follow my DWM Plan, the DWM Planner is not responsible for any damages, losses or liability.

I understand it is my responsibility to obtain any and all permits that may be required to implement my DWM Plan and to keep all necessary records. I understand that it is my responsibility to review my DWM Plan at least annually and update it as necessary as conditions change on my farm.

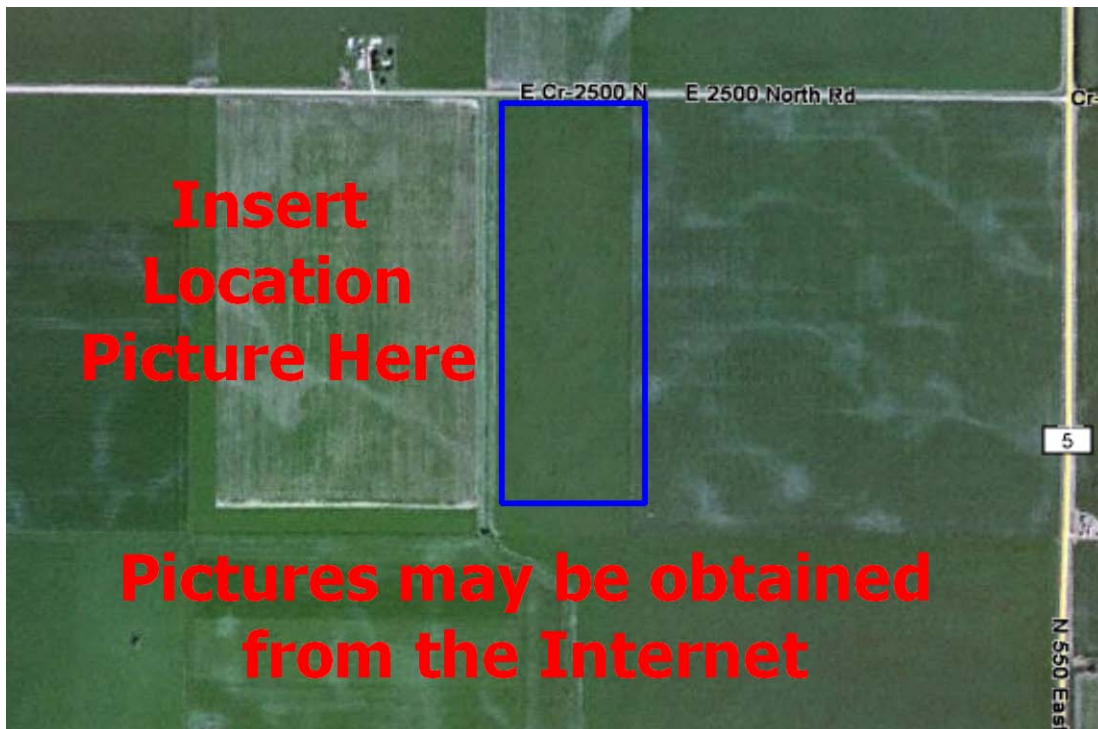
Producer Signature

Date

Field Summary

Farm Number	
Tract Number	
Total Area	xx.x acres
Drained Area	xx.x acres
Crops Grown	

The boundaries of the DWM CAP acreage should be delineated



Producer Objectives for DWM

Delete this line and the objectives that do not apply

- Reduce nutrient, pathogen, and/or pesticide loading from drainage systems into downstream receiving waters
- Improve productivity, health, and vigor of plants
- Reduce oxidation of organic matter in soils
- Reduce wind erosion or particulate matter (dust) emissions
- Provide seasonal wildlife habitat

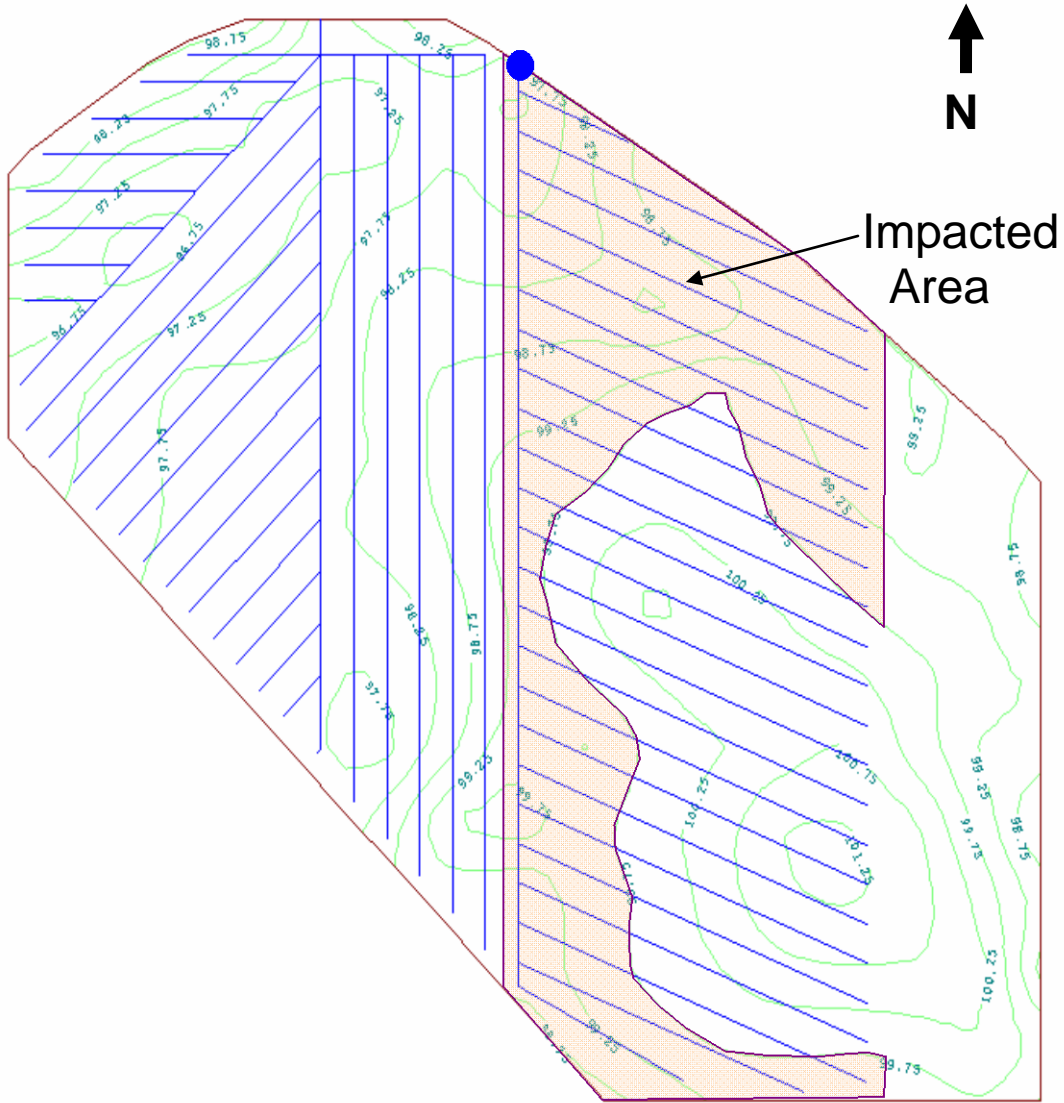
Add other objectives that apply

Drainage System and Impacted Area Map

EXAMPLE WITH IMPACTED AREA LESS THAN THE ENTIRE SYSTEM:

- Show locations of the laterals and mains (depth and grade of tile not required)
- Draw a line that is half the lateral spacing outside the boundary of tile in the patterned system to delineate the drained area.
- If the control structures are set at an elevation interval greater than 2 ft, then the impacted area is the drained area contained within the 2-ft contour above the structure.
- Control elevation is the low elevation in the impacted area.

Ground Elevation at Control Structure	xx.xx ft
Pipe Diameter for Control Structure	yy inches
Pipe Invert Elevation at Control Structure	xx.xx ft
Control Elevation in Impacted Area	xx.xx ft
Area of Impact	xx.x acres

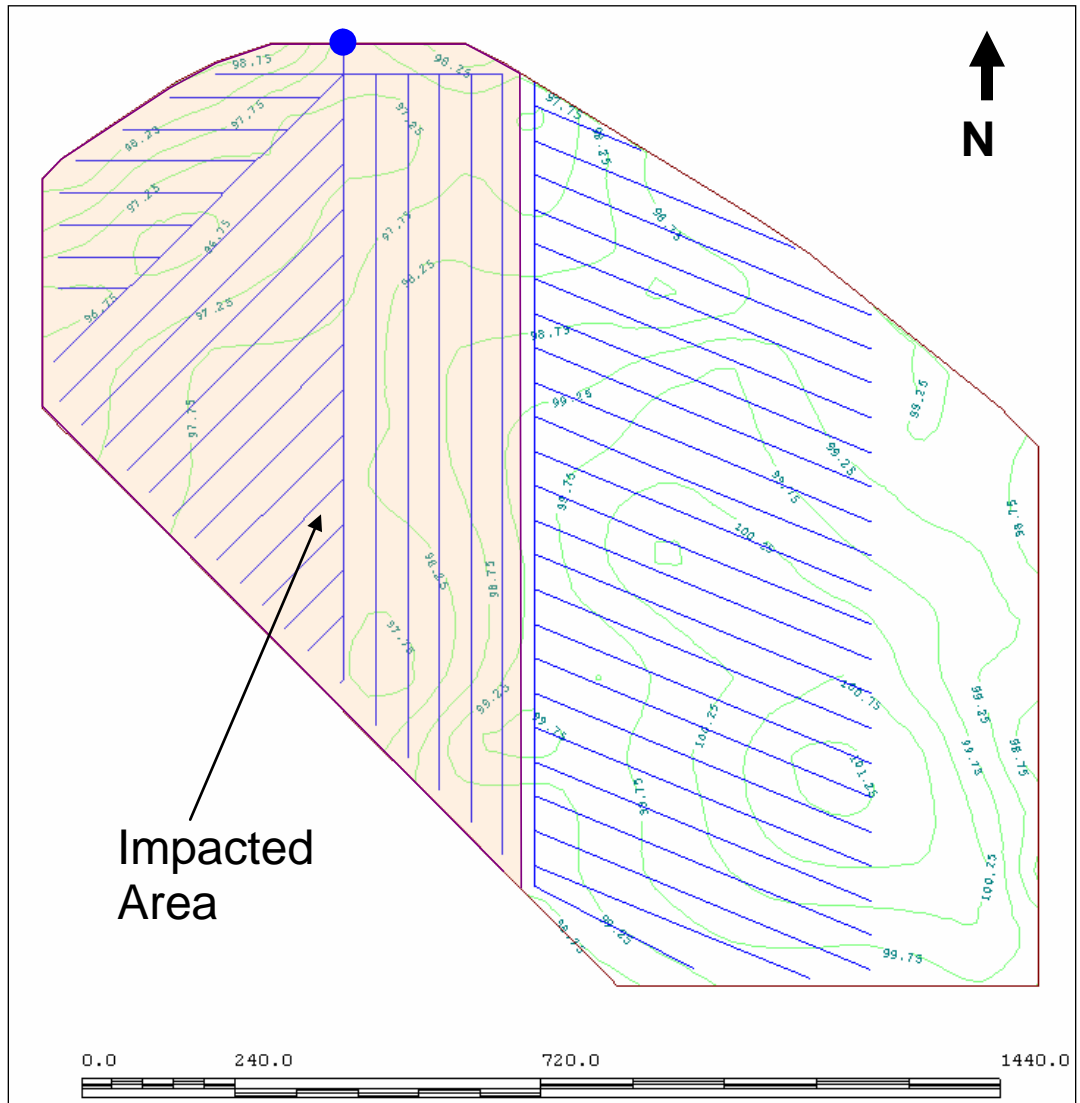


Drainage System and Impacted Area Map

EXAMPLE WITH ENTIRE SYSTEM WITHIN IMPACTED REGION

- *Show locations of the laterals and mains (depth and grade of tile not required)*
- *Draw a line that is half the lateral spacing outside the boundary of tile in the patterned system to delineate the drained area.*
- *If the control structures are set at an elevation interval greater than 2 ft, then the impacted area is the drained area contained within the 2-ft contour above the structure.*
- *Control elevation is the low elevation in the impacted area.*

Ground Elevation at Control Structure	xx.xx ft
Pipe Diameter for Control Structure	yy inches
Pipe Invert Elevation at Control Structure	xx.xx ft
Control Elevation in Impacted Area	xx.xx ft
Area of Impact	xx.x acres



Operation & Maintenance Plan

Water Control Structure # _____

Seasonal Event or Crop Stage and Target Water Table Depth

SEASONAL EVENT or CROP STAGE	TARGET WATER TABLE DEPTH (inches below control elevation)
Fallow / winter	0
Planting	36 (open drain)
Manure Application	6 (raise control structure to target depth immediately prior to application)
Growing season	36 (open drain) or less as determined by root development
Harvest	36 (open drain) or less as determined by root development

Inspections and maintenance are required to achieve the intended function, benefits, and life of the drainage water management system. The landowner/operator is responsible to establish and implement an inspection and maintenance program. Items to inspect and maintain include, but are not limited to, the following:

1. Inspect the system after storm events that may adversely alter the water level in the control area. The closer to the ground surface the top board is set, the sooner you need to check the water level.
2. Follow the Operation and Maintenance Plans for the water table control structures in the drainage water management system.
3. Follow the target water elevations or board settings for field operations (e.g. planting, harvest, manure application, fallow) shown above.
4. When making board setting adjustments, allow sufficient time for water level in the control area to reach the target elevation prior to performing field operations.
5. Periodically monitor water levels in the water table control structures to ensure the target elevation is achieved.
6. Maintain records of dates and elevations when adjustments are made to the outlet elevation in the control structure(s). [see sample on next page]

Add additional Management Plans for each water control structure in the field.

Records Example

Structure No. 2 Crop Corn Year 2011

CONTROL STRUCTURE OUTLET ELEVATION ADJUSTMENTS				
DATE	SEASONAL EVENT or CROP STAGE	TARGET WATER TABLE DEPTH (inches)	FLASH BOARD SETTING	COMMENTS
10-25-2010	Harvest completed and manure application	0	Top	Fallow season
4-5-2011	Prepare for spring tillage and planting	7	1 flash board out	Gradual release
4-8-2011	Prepare for spring tillage and planting	14	2 flash boards out	Gradual release
4-11-2011	Prepare for spring tillage and planting	21	3 flash boards out	Gradual release
4-15-2011	Prepare for spring tillage and planting	36	All flash boards out	Gradual release
4-20-2011	Planting completed	14	2 flash boards out	Elevate water table during beginning of growing season
5-21-2011	Crop growing	21	3 flash boards out	Lower water table for root development
6-26-2011	Crop Growing	36	All flash boards out	Fully drained for root development
10-28-2011	Harvest completed and manure application	0	Top	Fallow season