Chickasaw County
58 +/- Acre
Land Auction

Sept 4 @10:30

Live Auction w/Simulcast Online Bidding

Place: Elma Memorial Hall Elma, IA @ 10:30 a.m.

No Buyer's Premium!

Land & Auction Information

Located in Washington Township, Chickasaw County, Iowa

For questions and more information contact

Frank Fox, Auctioneer
Fox Auction Company
(641) 420-3243
frank@foxauctioncompany.com

Seller:
Walter Boehmer

Closing Attorney:
Dillon Law P.C., Sumner, IA

FoxAuctionCompany.com

FOX AUCTION COMPANY

:

METHOD OF SALE:

1) This is a live auction with simulcast online bidding.
2) Bidding will begin at 10:30 am
3) The sale price will be arrived at by multiplying the bid per acre by the multiplier of 58.

SPECIAL PROVISIONS:

1) Closing in approximately 45 days.
2) Selling subject to the current rent lease on the tillable acres for the 2025 crop season.
3) Earnest money deposit will be 10% of the sale price.
4) Seller will provide an abstract at sellers expense.
5) The buyer will get outright possession for the 2026 growing season. The 2025 lease has been terminated.
6) This sale is not subject to financing.
7) The cropland has been enrolled in the ARC/PLC program for the 2025 growing season. It will be the buyer's responsibility to provide the FSA office in their control County a copy of the recorded deed to authorize the FSA to assign the program contract, allotted bases, and existing CRP contracts to the buyers.
8) The acreage figures used in the promotional materials were estimated by Fox Auction Company. The announced tillable acres at the auction will be based on the Farm Service Agency measurements.
9) Real Estate taxes will be pro-rated to the date of closing. Any unpaid special assessment to be paid by the seller - if applicable.
10) Buyer will get landlord possession after closing. If the buyer wants to get on the property prior to that date for fencing, excavation, demolition, etc., ANY ACTIVITY WILL BE DONE AT THE PROSPECTIVE BUYER'S OWN RISK. The Buyer will be required to execute an early possession agreement if fieldwork and improvements (such as tree/brush and fence removal and drainage tile installation) will be started prior to closing.
11) The real estate may be acquired or sold as replacement property as part of a tax-deferred exchange as defined in Internal Revenue Code Section 1031.
12) The buyer(s) must assume any CRP contracts or otherwise be responsible for any termination penalties as a result of improper maintenance practices and/or deciding to remove the land from the CRP. The CRP annual income will be prorated to date of closing.
13) The sale price will be arrived at by using an acreage multiplayer determined by information deemed reliable. Fox Auction Company, Sellers, and Closing attorney do not guarantee accuracy.
14) This information has been gathered from reliable sources but, Fox Auction Company and the sellers do not guarantee the accuracy. All prospective buyers should do their own research and independently verify any information on which they are going to base their decision to buy.

15) This property is being sold “AS IS.” The property is being sold subject to any easements, including road, drainage, utility or other easements of record or pending. The sellers do not warranty or guarantee that existing fences coincide exactly with the rectangular survey lines. Any new fencing, if applicable, will be the responsibility of the purchaser pursuant to Iowa statutes.
16) Fox Auction Company is agent for the Sellers.

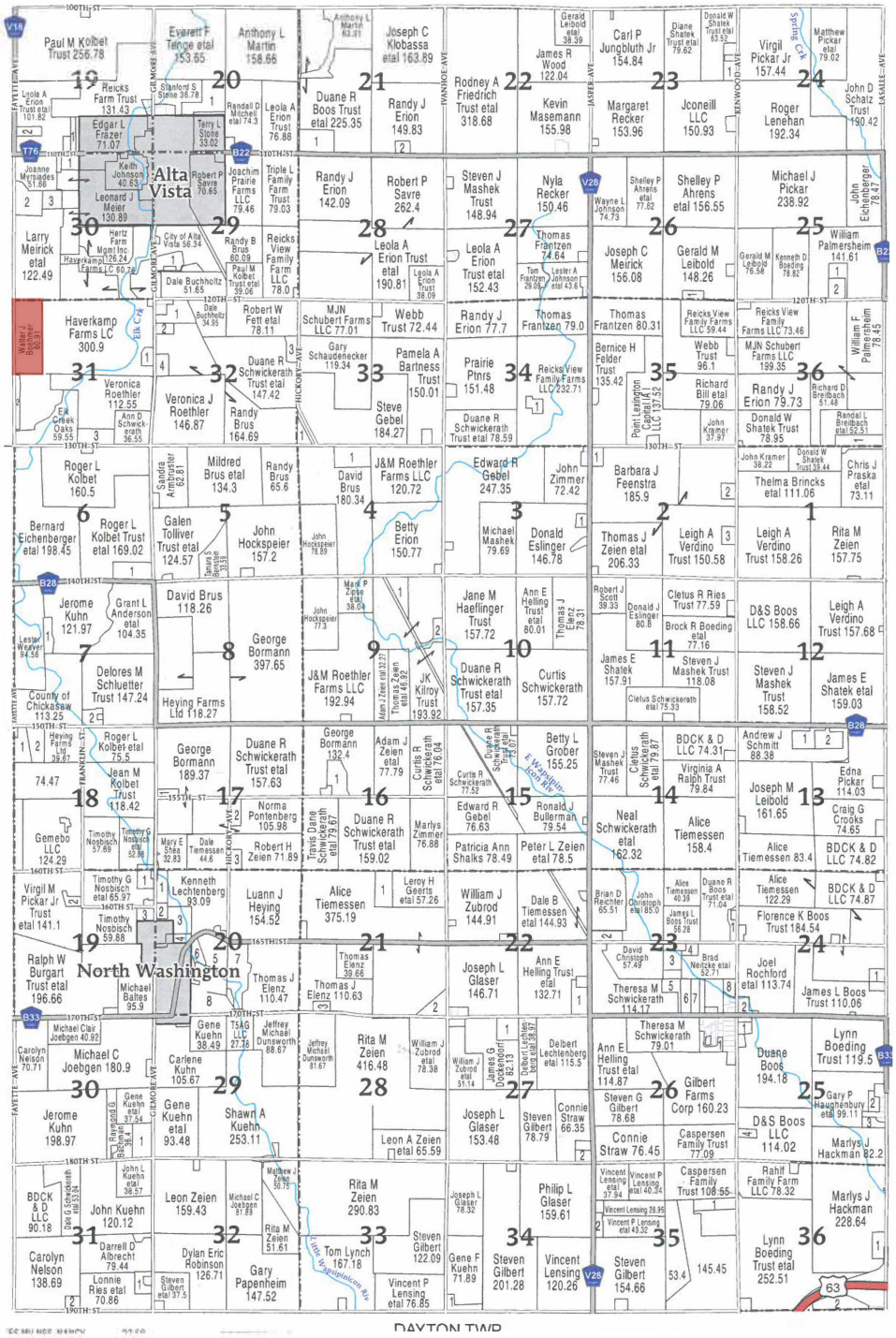
T-96-97-N

WASHINGTON PLAT

(Landowners)

HOWARD CO

R-13-W



TRACT INFORMATION

SIZE – 58 +/- Gross Acres, 40.38 +/- Tillable Acres

LEGAL DESCRIPTION – West ½ of the Northwest ¼ of Section 31, Washington Township, Chickasaw County, Iowa.

LOCATION / ADDRESS - located near the corner of 130th Street and Fayette Ave, or two miles southwest of Alta Vista, Iowa.

REAL ESTATE TAXES – $1,016.00 per year

TILLABLE ACRES –40.38 +/- Acres

CSR2 AVE. – 63.2

CRP ACRES – 30.98 acres have been in CRP. The CRP contract expired in September 2025.

HEL – Form 156EZ shows all acres as NHEL.

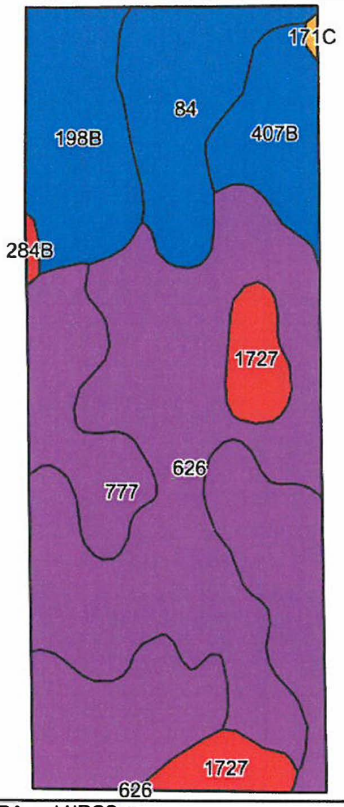
DRAINAGE – Little to no tile.

WETLANDS – Wetlands are present; see the certified wetland determination map.

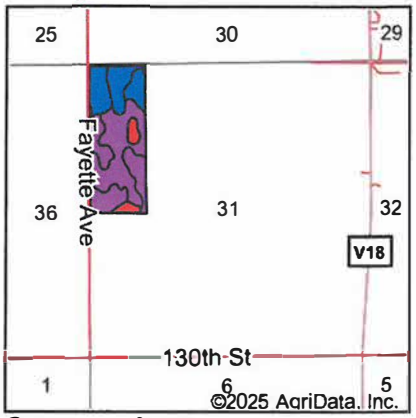
MINERAL RIGHTS – None of the mineral rights have been sold off.

POSSESSION – Buyers will have outright possession for the 2026 growing season.

Soils Map



Soils data provided by USDA and NRCS.



State: **Iowa**
County: **Chickasaw**
Location: **31-97N-13W**
Township: **Washington**
Acres: **60.91**
Date: **7/8/2025**

FOX Auction Company

Maps Provided By:
surety CUSTOMIZED ONLINE MAPPING
© AgriData, Inc. 2023 www.AgriDataInc.com

Area Symbol: IA037, Soil Area Version: 30

Code	Soil Description	Acres	Percent of field	CSR2 Legend	Non-Irr Class *c	CSR2**	CSR	*n NCCPI Soybeans
626	Hayfield loam, 0 to 2 percent slopes, rarely flooded	22.59	37.1%		IIs	53	66	55
777	Wapsie loam, 0 to 2 percent slopes	16.50	27.1%		IIs	55	57	44
84	Clyde clay loam, 0 to 3 percent slopes	6.81	11.2%		IIw	88	74	85
198B	Floyd loam, 1 to 4 percent slopes	6.77	11.1%		IIw	89	74	88
407B	Schley loam, 1 to 4 percent slopes	4.26	7.0%		IIw	81	69	85
1727	Udolpho loam, 0 to 2 percent slopes, rarely flooded	3.65	6.0%		IIw	48	66	54
284B	Flagler sandy loam, 2 to 5 percent slopes	0.21	0.3%		IIIe	49	45	36
171C	Bassett loam, 5 to 9 percent slopes	0.12	0.2%		IIIe	80	64	72
			Weighted Average		**2.01**	**63.2**	**65.5**	***n 61**

**IA has updated the CSR values for each county to CSR2.

*n: The aggregation method is "Weighted Average using all components"
*c: Using Capabilities Class Dominant Condition Aggregation Method

Soils data provided by USDA and NRCS.

USDA United States Department of Agriculture

Chickasaw County, Iowa

Legend

Non-Cropland | CRP | Iowa PLSS
Cropland | Tract Boundary | Iowa Roads

Wetland Determination Identifiers

- Restricted Use
- Limited Restrictions
- Exempt from Conservation Compliance Provisions

2025 Program Year

Map Created October 09, 2024

Farm **402**

Tract **629**

Tract Cropland Total: 40.38 acres

IOWA
CHICKASAW
Form: FSA-156EZ
See Page 2 for non-discriminatory Statements.

United States Department of Agriculture
Farm Service Agency

Abbreviated 156 Farm Record

FARM : 402
Prepared : 7/2/25 6:58 AM CST
Crop Year : 2025

Operator Name : I
CRP Contract Number(s) : 11122
Recon ID : None
Transferred From : None
ARCPLC G/I/F Eligibility : Eligible

Farm Land Data

Farmland	Cropland	DCP Cropland	WBP	EWP	WRP	GRP	Sugarcane	Farm Status	Number Of Tracts
58.84	40.38	40.38	0.00	0.00	0.00	0.00	0.0	Active	1

State Conservation	Other Conservation	Effective DCP Cropland	Double Cropped	CRP	MPL	DCP Ag.Rel. Activity	SOD
0.00	0.00	9.40	0.00	30.98	0.00	0.00	0.00

Crop Election Choice

ARC Individual	ARC County	Price Loss Coverage
None	CORN	None

DCP Crop Data

Crop Name	Base Acres	CCC-505 CRP Reduction Acres	PLC Yield	HIP
Oats	0.00	0.90	0	
Corn	8.67	10.83	124	
Soybeans	0.00	5.50	0	
TOTAL	**8.67**	**17.23**		

NOTES

Tract Number : **629**

Description : E2 NW1/4 31-97-13
FSA Physical Location : IOWA/CHICKASAW
ANSI Physical Location : IOWA/CHICKASAW
BIA Unit Range Number :
HEL Status : NHEL: No agricultural commodity planted on undetermined fields
Wetland Status : Wetland determinations not complete
WL Violations : None
Owners : WALTER J BOEHMER JR, PHILOMENA G BOEHMER
Other Producers : None
Recon ID : None

Tract Land Data

Farm Land	Cropland	DCP Cropland	WBP	EWP	WRP	GRP	Sugarcane
58.84	40.38	40.38	0.00	0.00	0.00	0.00	0.0

Tract 629 Continued ...

State Conservation	Other Conservation	Effective DCP Cropland	Double Cropped	CRP	MPL	DCP Ag. Rel Activity	SOD
0.00	0.00	9.40	0.00	30.98	0.00	0.00	0.00

DCP Crop Data

Crop Name	Base Acres	CCC-505 CRP Reduction Acres	PLC Yield
Oats	0.00	0.90	0
Corn	8.67	10.83	124
Soybeans	0.00	5.50	0
TOTAL	**8.67**	**17.23**	

NOTES

NRCS Natural Resources Conservation Service
NEW HAMPTON SERVICE CENTER
420 W MILWAUKEE STREET
NEW HAMPTON, IOWA 50659
641-394-2513

DENNIS SANDE
DISTRICT CONSERVATIONIST

CRP Plan

WALTER J BOEHMER JR
1305 FALCON TRL
ALTA VISTA, IA 50603

PHILOMENA G BOEHMER
1305 FALCON TRL
ALTA VISTA, IA 50603

Crop

Tract: 629

Access Control

Excluding livestock from an area not intended for grazing and excluding the area from mechanical harvest of forages.. To protect, maintain, or improve the quantity and quality of the plant and animal resources; to maintain enough cover to protect the soil; to maintain moisture resources; and to increase natural beauty.

Field	Planned Amount	Month	Year	Applied Amount	Date
2	9.18 ac	12	2014		
3	3.53 ac	12	2014		
4	3.14 ac	12	2014		
7	5.15 ac	12	2014		
8	2.09 ac	12	2014		
9	0.38 ac	12	2014		
10	4.06 ac	12	2014		
11	0.62 ac	12	2014		
12	1.03 ac	12	2014		
13	1.80 ac	12	2014		
Total:	30.98 ac				

Conservation Cover

Establishing and maintaining perennial vegetative cover on the land that has been temporarily removed from production of agricultural commodities. This practice may be applied as part of a system to accomplish one or more of the following purposes: (1) To reduce soil erosion and sedimentation. (2) To improve water quality. (3) To create or enhance wildlife habitat.
See IA-CPA-4 or other approved documentation sheet for seeding details.

Field	Planned Amount	Month	Year	Applied Amount	Date
2	9.18 ac	5	2015		
3	3.53 ac	5	2015		
4	3.14 ac	5	2015		
7	5.15 ac	5	2015		
8	2.09 ac	5	2015		
9	0.38 ac	5	2015		
10	4.06 ac	5	2015		
11	0.62 ac	5	2015		
12	1.03 ac	5	2015		
13	1.80 ac	5	2015		
Total:	30.98 ac				

Herbaceous Weed Control

Remove or control of herbaceous weeds including invasive, noxious or prohibited plants in order to maintain the quality of the planned CRP cover. Control infestations of weeds, insects and other pests by mowing, spraying, burning or other acceptable means on areas enrolled into CRP. All noxious weeds must be controlled. All volunteer trees and woody plants must be controlled. Nurse crops such as oats must be mowed or clipped prior to seed maturity. During years 1 and 2 of the contract, CRP areas may be mowed or sprayed as needed to control weeds (if spraying, be sure to follow all label directions). Usually at least 3-4 mowing operations are needed the first year (seeding year) and at least 1-2 mowing operations are needed the second contract year. If Prescribed Burning is used as a control measure, Prescribed Burning will be completed on the same land no more than once every 5 to 7 years, unless planned more frequently by NRCS to address a unique problem. Starting in year 3, no mowing, spraying, or burning may be done during the primary nesting season (May 15 through August 1), unless permission is granted by the FSA County Committee prior to mowing, spraying or burning. Mowing for cosmetic purposes is not allowed at any time. Contact your local FSA office for details.

Field	Planned Amount	Month	Year	Applied Amount	Date
2	9.18 ac	5	2015		
3	3.53 ac	5	2015		
4	3.14 ac	5	2015		
7	5.15 ac	5	2015		
8	2.09 ac	5	2015		
9	0.38 ac	5	2015		
10	4.06 ac	5	2015		
11	0.62 ac	5	2015		
12	1.03 ac	5	2015		
13	1.80 ac	5	2015		
Total:	30.98 ac				

Upland Wildlife Habitat Management

Creating, maintaining, or enhancing areas, for food and cover for upland wildlife. To create, maintain, or enhance habitat suitable for sustaining desired kinds of wildlife. Mid-Contract Management job sheet provides options available for required mid-contract management activities. Mid-Contract activities will be scheduled in the CRP Plan according to the Mid-Contract Management job sheet. Mid-Contract activities are not to be completed during the primary nesting season (May 15 - August 1). For specific CRP practices, Food Plots may be a part of the CRP contract. If Food Plots are to be included as part of the contract, see attached Job Sheet for details. If the food plot is relocated, the producer is responsible for seeding the abandoned food plot area at his/her own expense to the

Field	Planned Amount	Month	Year	Applied Amount	Date
2	9.18 ac	5	2019		
3	3.53 ac	5	2020		
4	3.14 ac	5	2021		
7	5.15 ac	5	2020		
8	2.09 ac	5	2020		
9	0.38 ac	5	2021		
10	4.06 ac	5	2021		
11	0.62 ac	5	2021		
12	1.03 ac	5	2021		
13	1.80 ac	5	2021		
Total:	30.98 ac				

Wetland Restoration

Construct or restore the necessary facilities to provide the biological benefits of a wetland.

Field	Planned Amount	Month	Year	Applied Amount	Date
8	2.09 ac	5	2015		
9	0.38 ac	5	2015		
11	0.62 ac	5	2015		
12	1.03 ac	5	2015		
Total:	4.12 ac				

Filter Strip

Establish a strip of perennial vegetation for trapping sediment and other pollutants

Field	Planned Amount	Month	Year	Applied Amount	Date
7	5.15 ac	5	2015		
10	4.06 ac	5	2015		
13	1.80 ac	5	2015		
Total:	11.01 ac				

This document is a Conservation Reserve Program (CRP) Plan provided per FSA's request. To obtain a complete conservation plan, contact the Natural Resources Conservation Service.

Wally Boehmer 12/8/14
WALTER J BOEHMER JR DATE

Philomena G. Boehmer 12/08/14
PHILOMENA G BOEHMER DATE

CERTIFICATION OF:

DISTRICT CONSERVATIONIST
12-9-14
DENNIS SANDE DATE

CONSERVATION DISTRICT
SWCD DATE

FSA COUNTY COMMITTEE DATE

PUBLIC BURDEN STATEMENT

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collections is 0578-0013. The time required to complete this information collection is estimated to average 45/0.75 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection information.

PRIVACY ACT

The above statements are made in accordance with the Privacy Act of 1974 (5 U.S.C 522a). Furnishing this information is voluntary; however failure to furnish correct, complete information will result in the withholding or withdrawal of such technical or financial assistance. The information may be furnished to other USDA agencies, the Internal Revenue Service, the Department of Justice, or other state or federal law enforcement agencies, or in response to orders of a court, magistrate, or administrative tribunal.

USDA NON-DISCRIMINATION STATEMENT

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USDA Office of the Assistant Secretary for Civil Rights
1400 Independence Avenue, SW.
Washington, DC 20250-9410

Or call toll free at (866) 632-9992 (voice) to obtain additional information, the appropriate office or to request documents. Individuals who are deaf, hard of hearing, or have speech disabilities may contact USDA through the Federal Relay service at (800) 877-8339 or (800) 845-6136 (in Spanish). USDA is an equal opportunity provider, employer, and lender. Persons with disabilities who require alternative means for communication of program information (e.g., Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD).

CRP Plan Map

USDA United States Department of Agriculture

Chickasaw County, Iowa

Client's Name: Walter Boehmer

Prepared with assistance from USDA-Natural Resources Conservation Service and assisted by: Laurie Ahrndt

Chickasaw SWCD, Chickasaw County, IA

Date: 11/20/14

2014 Program Year

Map Created December 16, 2013

Farm **402**

Tract **629**

ited States Deparment of Agriculture (USDA) Farm Service Agency (FSA) maps are for FSA Program administration only. This map does not represent a legal survey or reflect actual nership; rather it depicts the information provided directly from the producer and/or National Agricultural Imagery Program (NAIP) imagery. The producer accepts the data 'as is' and umes all risks associated with its use. USDA-FSA assumes no responsibility for actual or consequential damage incurred as a result of any user's reliance on this data outside FSA grams. Wetland identifiers do not represent the size, shape, or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact ndaries and determinations or contact USDA Natural Resources Conservation Service (NRCS).

United States Department of Agriculture

NRCS
Natural Resources Conservation Service
420 W Milwaukee Street
New Hampton, Iowa 50659

CERTIFIED MAIL--RETURN RECEIPT REQUESTED

September 17, 2015

Walter Boehmer
1305 Falcon Trail
Alta Vista, Iowa 50603

Dear Walter:

Based upon your recent request for a Certified Wetland Determination, this letter is to notify you that a preliminary wetland determination has been completed for your Farm #402, Tract #629, Chickasaw County, Iowa. This determination was completed in accordance with the National Food Security Act Manual Wetland Identification procedures; title 7 Part 12 of the Code of Federal Regulations and title 7 part 12.5(b) of the Code of Federal Regulations. See the enclosed NRCS-CPA-026 "*Highly Erodible Land and Wetland Conservation Determination*" form for definitions and aerial photo for locations.

The **Preliminary Technical Determination** is: There are wetland(s) or wetland(s) types as listed on the attached form. If you did not request a wetland determination for your entire farm, wetlands may exist in other locations.

The area(s) designated as wetlands are wetlands because:

- Has a predominance of hydric soils,
- Is inundated or saturated by surface or groundwater at a frequency and duration sufficient to support a prevalence of hydrophytic vegetation typically adapted for life in saturated soil conditions, and
- Under normal circumstances does support a prevalence of such vegetation.

For those sites that are labeled as Farmed Wetland (FW) or Farmed Wetland Pasture (FWP): manipulation has occurred prior to December 23, 1985. See the wetland definitions on the NRCS-CPA-026.

This preliminary determination will become final 30 days after receipt of this letter unless you request one of the following options in writing:

1) A reconsideration and field visit. During the field visit we will review the basis for our determination, answer any questions you have regarding this preliminary determination, and offer an opportunity for you to provide additional information regarding this determination.

2) Request mediation by contacting the Iowa Mediation Service at the address below. Mediation may be used in an attempt to settle your concerns with the preliminary wetland determination.

Iowa Mediation Service
1441 29th Street, Suite 120
West Des Moines, IA 50266
(515) 331-8081

If you choose to use mediation, the Natural Resources Conservation Service (NRCS) will pay up to one-half of the costs that are appropriate and reasonable which are associated with securing the services of a trained mediator when the services are provided on other than a voluntary basis. The NRCS will have final discretion over what is considered appropriate and reasonable.

3) You may waive your rights to mediation and a field review of the preliminary technical determination. This request must be in writing and addressed to Jay T. Mar, State Conservationist, 210 Walnut Street, Room 693, Des Moines, IA 50309. In this case you will immediately be issued a final technical determination and appeal rights to National Appeals Division (NAD) and/or to the FSA County Committee.

After completion of the field visit if one is requested, or following the completion of mediation, a final technical determination will be issued. If you choose to take no action, the Preliminary Technical Determination will become the **Final Technical Determination** 30 days after receiving this notice. Once this determination becomes **Final**, you may appeal to the FSA County Committee, or to the National Appeals Division (NAD), at the addresses listed below within **60** calendar days from the date of receipt of this notice.

Chickasaw FSA County Committee
420 W Milwaukee Street
New Hampton, Iowa 50659

or

National Appeals Division
Post Office Box 68806
Indianapolis, IN 46268-0806

In order to maintain your eligibility for USDA program benefits, contact your local NRCS office prior to performing any land altering activities (tiling, land clearing, ditching, drainage maintenance, filling, leveling, removal of woody vegetation, or dredging,) in or adjacent to the identified Wetland (W), Farmed Wetland (FW), Farmed Wetland Pasture or Hayland (FWP), or Not Inventoried area(s).

This certified wetland determination/delineation has been conducted for the purpose of implementing the Food Security Act of 1985 as amended. This determination/delineation may not be valid for identifying the extent of the United States Army Corps of Engineers (COE) Clean Water Act jurisdiction for this site. If you intend to conduct any activity that constitutes a discharge of dredged or fill material into wetlands or other waters of the United States including lakes, rivers, intermittent or perennial streams, you should request a jurisdictional determination from the Rock Island District COE office prior to starting your work.

If you have any questions about this procedure or determination, please contact me at 641-394-2513. Also, if anyone else is associated with this farm; tenant, landlord, partner, I encourage you to discuss this determination with them.

Sincerely,

Ben Kuennen

Ben Kuennen
Wetland Specialist

Enclosures

Cc Chickasaw County FSA

United States Department of Agriculture

Natural Resources Conservation Service

NRCS-CPA-026E
11/2012

HIGHLY ERODIBLE LAND AND WETLAND CONSERVATION DETERMINATION

Name Address:	Walter Boehmer Jr 1305 Falcon Trl Alta Vista, Iowa 50603	Request Date: 8/20/2015	County: Chickasaw
Agency or Person Requesting Determination:	FSA	Tract No: T 629	FSA Farm No.: F 402

Section I - Highly Erodible Land

Is a soil survey now available for making a highly erodible land determination?	Yes
Are there highly erodible soil map units on this farm?	Yes

Fields in this section have undergone a determination of whether they are highly erodible land (HEL) or not; fields for which an HEL Determination has not been completed are not listed. In order to be eligible for USDA benefits, a person must be using an approved conservation system on all HEL.

Field(s)	HEL(Y/N)	Sodbust(Y/N)	Acres	Determination Date
1	N		9.9	09/21/2015
2	N		11.6	03/03/1988
3	N		10.8	03/03/1988
4	N		8.6	03/03/1988

The Highly Erodible Land determination was completed in the office.

Section II - Wetlands

Are there hydric soils on this farm?	Y

Fields in this section have had wetland determinations completed. See the Definition of Wetland Label Codes for additional information regarding allowable activities under the wetland conservation provisions of the Food Security Act and/or when wetland determinations are necessary to determine USDA program eligibility.

Field(s)	Wetland Label*	Occurrence Year (CW)**	Acres	Determination Date	Certification Date
1	PC		8.7	09/21/15	
2	PC		11.5	09/21/15	
3	PC		10.8	09/21/15	
4	PC		8.5	09/21/15	
5	W		0.4	09/21/15	
6	NW		14.8	09/21/15	
6	W		0.9	09/21/15	
6	W		3.2	09/21/15	

The wetland determination was completed in the field. It was mailed to the person on 9/22/2015.

Remarks:	Threatened or Endangered species or their habitat may occur within the area of this determination. Section 7 Consultation (Federal Agency) or Section 10 Consultation (Private Individuals) with the US Fish and Wildlife Service (USFWS) and/or consultation with the Iowa Department of Natural Resources (IDNR) may be required. Proof of completed consultation with the USFWS and/or the IDNR must be submitted to NRCS prior to NRCS providing Technical (TA) or Financial (FA) assistance on projects, or portions thereof, that may affect threatened or endangered species or their habitats.

I certify that the above determinations are correct and were conducted in accordance with policies and procedures contained in the National Food Security Act Manual.

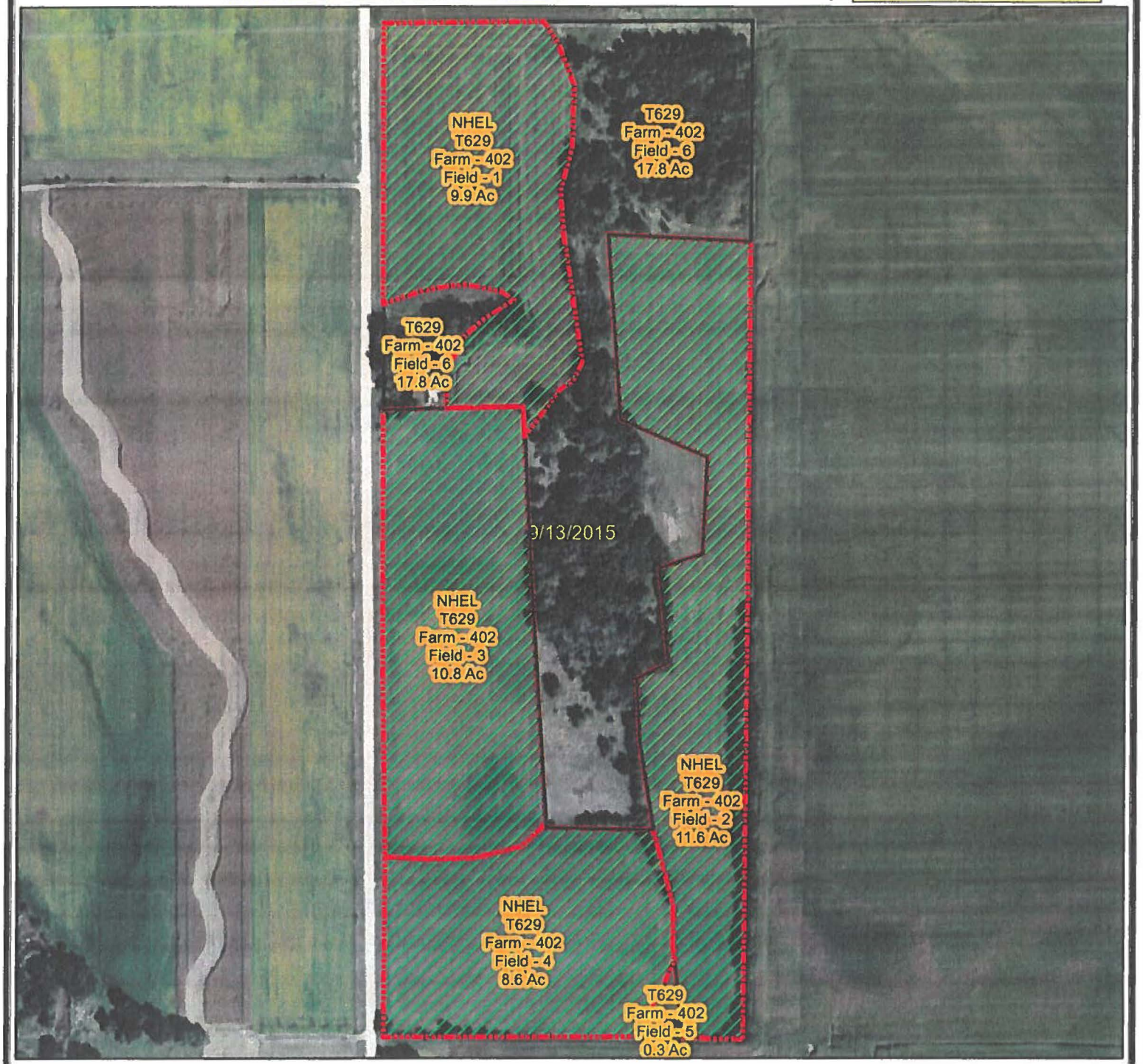
Signature Designated Conservationist	Date
Ben Kuennen	9/22/15

*DEFINITIONS OF WETLAND LABELS

AW	Artificial Wetland: An area that was formerly a non-wetland area under natural conditions but now exhibits wetland characteristics because of the influence of human activities. These areas are exempt from the Food Security Act of 1985, as amended. This label includes irrigation induced wetlands.
CC	Commenced Conversion: A wetland, farmed wetland, farmed wetland pasture, or converted wetland on which the conversion began but was not completed before December 23, 1985, was approved by FSA to continue, and the conversion was completed by January 1, 1995.
CPD	COE Permit with Mitigation: A converted wetland authorized by a permit issued under Section 404 of the Clean Water Act. Production of agricultural commodities is allowed subject to conditions of the permit.
CMW	Categorical Minimal Effect: A wetland that meets specific categories of conversion activities that have been determined by NRCS to have minimal effect, individually and cumulatively, on the functions and values of the wetland and the wetlands in the watershed.
CW	Converted Wetland: A wetland converted between December 23, 1985, and November 28, 1990. Production of an agricultural commodity or additional manipulation of these areas will yield UDSA benefit ineligibility. Also, these areas are wetlands converted after December 23, 1985, by a county, drainage district, or similar entity. For these instances, production of an agricultural commodity or forage for mechanical harvest or additional manipulation will cause ineligibility for USDA program benefits.
CW+year	Converted Wetland + (year the conversion occurred): A wetland converted after November 28, 1990, where the USDA program participant is ineligible for benefits until the wetland is restored or mitigated unless an exemption applies.
CWNA	Converted Wetland Non-Agricultural Use: A wetland converted after November 28, 1990, to a use other than agricultural commodity production. Label not used for certified wetland determinations completed after 2/2008.
CWTE	Converted Wetland Technical Error: A wetland converted or commenced after December 23, 1985, based on an incorrect NRCS determination. This label does not apply to obvious wetlands as defined in the National Food Security Act Manual.
FW	Farmed Wetland: A wetland that was manipulated and planted before December 23, 1985, but still meets inundation or saturation criteria. These areas may be farmed and maintained as documented before December 23, 1985, as long as they are not abandoned (i.e., management or maintenance for commodity production ceased for 5 consecutive years).
FWP	Farmed Wetland Pasture or Hayland: A wetland that is used for pasture or haying, was manipulated and planted before December 23, 1985, but still meets the inundation or saturation criteria. These areas may be farmed and maintained as documented before December 23, 1985, as long as they are not abandoned (i.e., management or maintenance for commodity production ceased for 5 consecutive years).
MIW	Mitigation Exemption: A converted wetland, farmed wetland or farmed wetland pasture of which the acreage, functions and values lost have been compensated for through an NRCS-approved mitigation plan.
MW	Minimal Effect Exemption: A converted wetland that is exempt from the wetland conservation provisions of the Food Security Act of 1985, as amended, based on an NRCS determination that the conversion has or will have a minimal effect, individually and cumulatively, on the functions and values of the wetland and the wetlands in the watershed.
MWM	Mitigation Site: The site of wetland restoration, enhancement, or creation serving as mitigation for the mitigation exemption (MIW) site.
NI	Not Inventoried: An area where no wetland determination has been conducted. Label not used for certified wetland determinations completed after 2/2008.
NW	Non-Wetland: An area that does not contain a wetland. Also includes wetlands converted before December 23, 1985, but a commodity crop was not produced and the area does not meet wetland criteria (not been abandoned).
PC	Prior-Converted Cropland: A wetland converted to cropland before December 23, 1985, and as of December 23, 1985, was capable of being cropped and did not meet farmed wetland hydrology criteria. These areas are not subject to the wetland conservation provisions of the Food Security Act of 1985, as amended, unless further drainage manipulation affects adjacent wetlands.
PC/NW	Prior Converted Cropland/Non-Wetland: An area that contains both PC and NW.
TP	Third-Party Exemption: A wetland converted after December 23, 1985, by a third party who is not associated with the participant, and the conversion is not a result of a scheme or device. A third party does not include predecessors in interest on the tract, drainage districts, or other local government entities.
W	Wetland: An area meeting wetland criteria that was not converted after December 23, 1985. These areas include farmed wetlands and farmed wetland pasture that have been abandoned.
WX	Manipulated Wetlands: A wetland manipulated after December 23, 1985, but the manipulation was not for the purpose of making production possible and production was not made possible. These areas include wetlands manipulated by drainage maintenance agreements.

HEL Determination Map

Land Owner:	Walter Boehmer Jr	**Certified By:**	Ben Kuennen
Tract & Farm #	T629 F402	**Map Creation Date:**	9/21/2015
Legal Description:	T97N., R14W	**Determination County:**	Chickasaw
Certification Office:	New Hampton FO		



1:4,500

0 200 400 800 1,200 Feet

Agency: USDA-NRCS

N

Legend

HEL designation

- HEL
- NHEL
- No determination

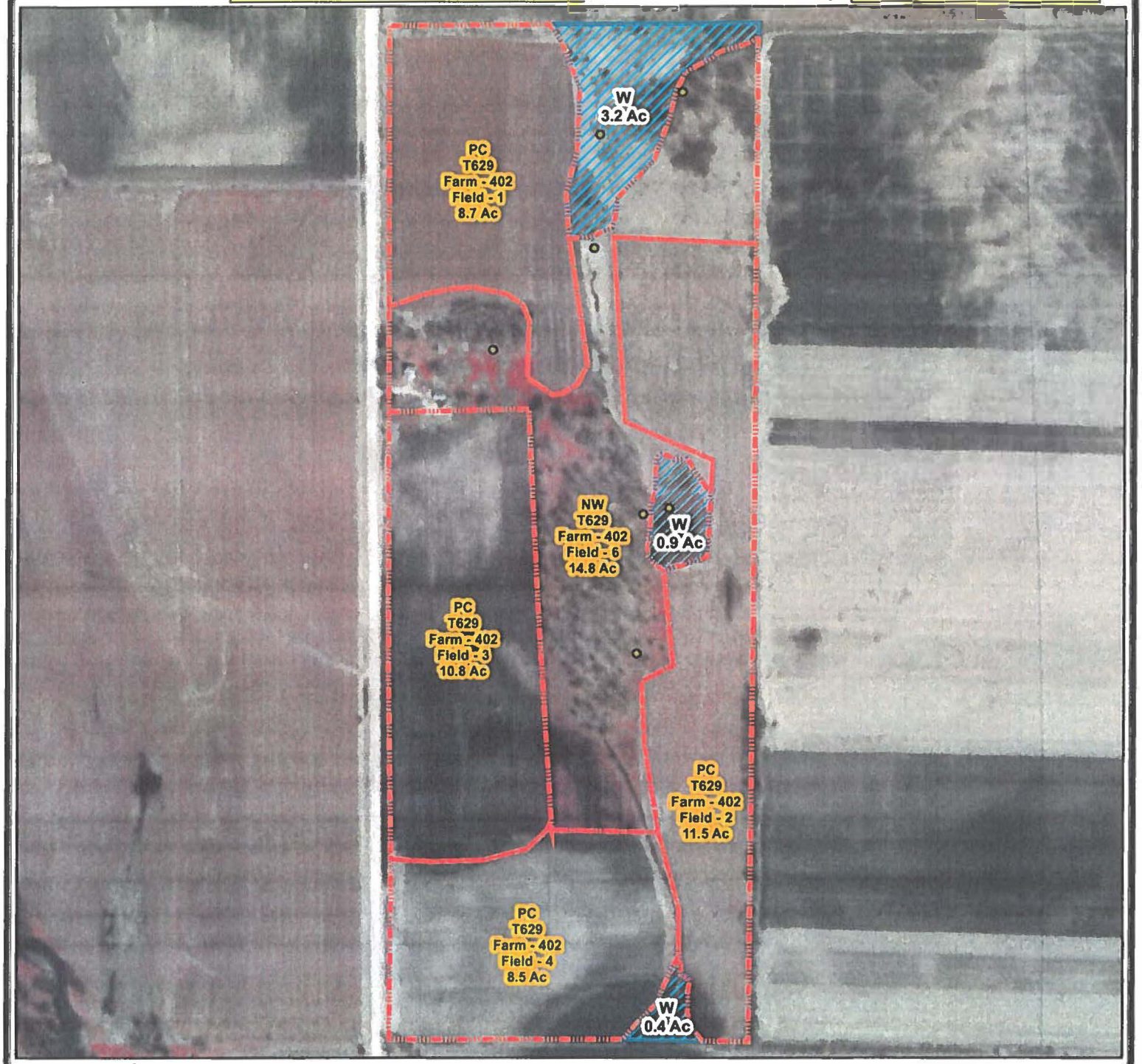
Highly Erodible Codes

HEL Highly Erodible Land
NHEL Non Highly Erodible Land

This Determination is valid for the colored cross hatched areas.

Certified Wetland Determination Map

Land Owner:	Walter Boehmer Jr	**Certified By:**	Ben Kuennen
Tract & Farm #	T629 F402	**Map Creation Date:**	9/18/2015
Legal Description:	T. 97N., R.14W	**Determination County:**	Chickasaw
Certification Office:	New Hampton FO		



Legend

- Certified Wetland Determination Boundary
- Wetlands
- Surface Drain
- Berm/Dike
- Subsurface Drain
- Boundary Point
- Data Form Point
- Picture Point

1:4,500

0 200 400 800 1,200 Feet

Agency: USDA-NRCS

N

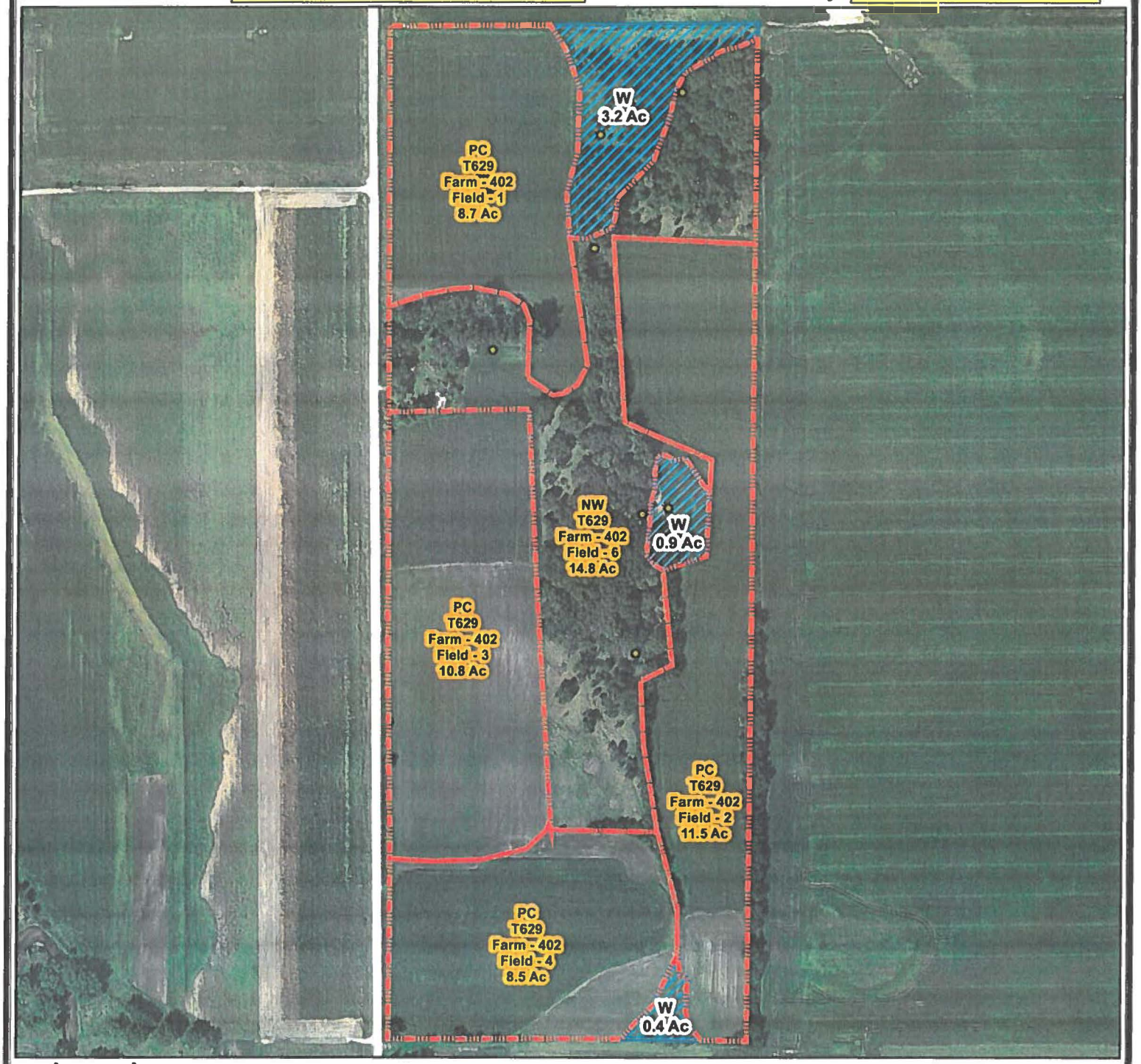
Wetland Codes

W	Wetland	FWP	Farmed Wetland Pasture
CW	Converted Wetland	MIW	Mitigation Exemption
CW+yr	Converted After 1990	NW	Non Wetland
FW	Farmed Wetland	PC	Prior Converted Cropland
AW	Artifical Wetland		

This Determination is valid for the area within the Dashed Red Line(Determination Boundary)

Certified Wetland Determination Map

Land Owner:	Walter Boehmer Jr	**Certified By:**	Ben Kuennen
Tract & Farm #	T629 F402	**Map Creation Date:**	9/18/2015
Legal Description:	T. 97N., R.14W	**Determination County:**	Chickasaw
Certification Office:	New Hampton FO		



Legend

Certified Wetland Determination Boundary
Wetlands
Surface Drain
Berm/Dike
Subsurface Drain
Boundary Point
Data Form Point
Picture Point

1:4,500

0 200 400 800 1,200 Feet

Agency: USDA-NRCS

N

Wetland Codes

W	Wetland	FWP	Farmed Wetland Pasture
CW	Converted Wetland	MIW	Mitigation Exemption
CW+yr	Converted After 1990	NW	Non Wetland
FW	Farmed Wetland	PC	Prior Converted Cropland
AW	Artifical Wetland		

This Determination is valid for the area within the Dashed Red Line(Determination Boundary)


PC
T629
Farm - 402
Field - 1
8.7 Ac
W
3.2 Ac
NW
T629
Farm - 402
Field - 6
14.8 Ac
W
0.9 Ac
PC
T629
Farm - 402
Field - 3
10.8 Ac
PC
T629
Farm - 402
Field - 2
11.3 Ac
PC
T629
Farm - 402
Field - 4
8.6 Ac
W
0.6 Ac

U.S. Department of Agriculture
Soil Conservation Service

IA-CPA-19
1/87

FIELD DETERMINATION
HIGHLY ERODIBLE LAND

Owner BOEHMER JR, WALTER

Operator "

County CHICKASAW, WASHINGTON 31 N

Date 3-3-88

Total Acres _____

Cropland Acres _____

ASCS Farm No. _____

Prepared by MBZ

Tract No.	Field No.	Acres	SMU	Acres	Highly Erodible Yes	Highly Erodible No	HEL-SMU Acres Total Acres	Field Designation	Remarks
629	1	9.0	84			X	ALL #3's	NHEL	H.S.
	2	12.8					ALL #3's	NHEL	
	3	10.3					ALL #3's	NHEL	
	4	9.1					ALL #3's	NHEL	

Tract No.	Field No.	Acres	SMU	Acres	Highly Erodible Yes	Highly Erodible No	HEL-SMU Acres Total Acres	Field Designation	Remarks

This form is available electronically.

(See Page 2 for Privacy and Paperwork Reduction Act Statements)

AD-1026
(10-30-14)

U.S. DEPARTMENT OF AGRICULTURE
Farm Service Agency

Walter Boehmer # 641-393-2687

HIGHLY ERODIBLE LAND CONSERVATION (HELC) AND WETLAND CONSERVATION (WC) CERTIFICATION

Read attached AD-1026 Appendix before completing form.

PART A – BASIC INFORMATION

1. Name of Producer	2. Tax Identification Number *(Last 4 digits)*	3. Crop Year
Dean Mai	8621	2016

4. Names of affiliated persons with farming interests. *Enter "None," if applicable.*

NONE

Affiliated persons with farming interests must also file an AD-1026. See Item 7 in the Appendix for a definition of an affiliated person.

5. Check one of these boxes if the statement applies; otherwise continue to Part B.

A. ☐ The producer in Part A does not have interest in land devoted to agriculture. Examples include bee keepers who place their hives on another person's land, producers of crops grown in greenhouses, and producers of aquaculture AND these producers do not own/lease any agricultural land themselves. **Note:** Do not check this box if the producer shares in a crop.

B. ☐ The producer in Part A meets all three of the following:
- does not participate in any USDA program that is subject to HELC and WC compliance except Federal Crop Insurance.
- only has interest in land devoted to agriculture which is exclusively used for perennial crops, except sugarcane, and
- has not converted a wetland after February 7, 2014.

Perennial crops include, but are not limited to, tree fruit, tree nuts, grapes, olives, native pasture and perennial forage. A producer that produces alfalfa should contact the Natural Resources Conservation Service at the nearest USDA Service Center to determine whether such production qualifies as production of a perennial crop.

Note: *If either box is checked, and the producer in Part A does not participate in Farm Service Agency (FSA) or Natural Resources Conservation Service (NRCS) programs, the full tax identification number of the producer must be provided, but establishment of detailed farm records with FSA is not required. Go to Part D and sign and date.*

PART B - HELC/WC COMPLIANCE QUESTIONS

Indicate YES or NO to each question. *If you are unsure of whether a HEL determination, wetland determination, or NRCS evaluation has been completed, contact your local USDA Service Center.*	**YES**	**NO**
6. During the crop year entered in Part A or the term of a requested USDA loan, did or will the producer in Part A plant or produce an agricultural commodity (including sugarcane) on land for which an HEL determination has not been made?	X	
7. Has anyone performed (since December 23, 1985), or will anyone perform any activities to:		
A. Create new drainage systems, conduct land leveling, filling, dredging, land clearing, or excavation that has **NOT** been evaluated by NRCS? ***If "YES", indicate the year(s):*** _____		X
B. Improve or modify an existing drainage system that has **NOT** been evaluated by NRCS? ***If "YES", indicate the year(s):*** _____		X
C. Maintain an existing drainage system that has **NOT** been evaluated by NRCS? ***If "YES", indicate the year(s):*** _____ **Note:** *Maintenance is the repair, rehabilitation, or replacement of the capacity of existing drainage systems to allow for the continued use of wetlands currently in agricultural production and the continued management of other areas as they were used before December 23, 1985. This allows a person to reconstruct or maintain the capacity of the original system or install a replacement system that is more durable or will realize lower maintenance or costs.*		X

Note: *If "YES" is checked for Item 7A or 7B, then Part C must be completed to authorize NRCS to make an HELC/WC and/or certified wetland determination on the identified land. If "YES" is checked for Item 7C, NRCS does not have to conduct a certified wetland determination.*

8. Check one or both boxes, if applicable; otherwise, continue to Part C or D.

A. ☐ Check this box only if the producer in Part A has FCIC reinsured crop insurance and filing this form represents the first time the producer in Part A, including any affiliated person, has been subject to HELC and WC provisions.

B. ☐ Check this box if either of the following applies to the producer and crop year entered in Part A:
- Is a tenant on a farm that is/will not be in compliance with HELC and WC provisions because the landlord refuses to allow compliance, but all other farms not associated with that landlord are in compliance. (AD-1026B, Tenant Exemption Request, must be completed).
- Is a landlord of a farm that is/will not be in compliance with HELC and WC provisions because of a violation by the tenant on that farm, but all other farms not associated with that tenant are in compliance. (AD-1026C, Landlord or Landowner Exemption Request, must be completed).

PART C – ADDITIONAL INFORMATION

9. If "YES" was checked in Item 6 or 7, provide the following information for the land to which the answer applies:

A. Farm and/or tract/field number: 402 629
If unknown, contact the Farm Service Agency at the nearest USDA Service Center.

B. Activity: Crop - pasture grazed

C. Current land use *(specify crops)*: corn

D. County: Chickasaw

PART D – CERTIFICATION OF COMPLIANCE

I have received and read the AD-1026 Appendix and understand and agree to the terms and conditions therein on all land in which I (or the producer in Part A if different) and any affiliated person have or will have an interest. I understand that eligibility for certain USDA program benefits is contingent upon this certification of compliance with HELC and WC provisions and I am responsible for any non-compliance. I understand and agree that this certification of compliance is considered continuous and will remain in effect unless revoked or a violation is determined. I further understand and agree that:

- all applicable payments must be refunded if a determination of ineligibility is made for a violation of HELC or WC provisions.
- NRCS may verify whether a HELC violation or WC has occurred.
- a revised Form AD-1026 must be filed if there are any operation changes or activities that may affect compliance with the HELC and WC provisions. I understand that failure to revise Form AD-1026 for such changes may result in ineligibility for certain USDA program benefits or other consequences.
- affiliated persons are also subject to compliance with HELC and WC provisions and their failure to comply or file Form AD-1026 will result in loss of eligibility for applicable benefits to any individuals or entities with whom they are considered affiliated.

Producer's Certification:
I hereby certify that the information on this form is true and correct to the best of my knowledge.

10A. Producer's Signature *(By)*	10B. Title/Relationship *(If Signing in Representative Capacity)*	10C. Date *(MM-DD-YYYY)*
Diana C Mac		5-12-15
FOR FSA USE ONLY *(for referral to NRCS)* Sign and date if NRCS determination is needed.	11A. Signature of FSA Representative Denise W. Ste	11B. Date *(MM-DD-YYYY)* 5-12-15

IMPORTANT: If you are unsure about the applicability of HELC and WC provisions to your land, contact your local USDA Service Center for details concerning the location of any highly erodible land or wetland and any restrictions applying to your land according to NRCS determinations before planting an agricultural commodity or performing any drainage or manipulation. Failure to certify and properly revise your compliance certification when applicable may: (1) affect your eligibility for USDA program benefits, including whether you qualify for reinstatement of benefits through the Good Faith process; and (2) result in other consequences.

NOTE: *The following statement is made in accordance with the Privacy Act of 1974 (5 USC 552a - as amended). The authority for requesting the information identified on this form is 7 CFR Part 12, the Food Security Act of 1985 (Pub. L. 99-198), and the Agricultural Act of 2014 (Pub. L. 113-79). The information will be used to certify compliance with HELC and WC provisions and to determine producer eligibility to participate in and receive benefits under programs administered by USDA agencies. The information collected on this form may be disclosed to other Federal, State, Local government agencies, Tribal agencies, and nongovernmental entities that have been authorized access to the information by statute or regulation and/or as described in applicable Routine Uses identified in the System of Records Notice for USDA/FSA-2, Farm Records File (Automated) and USDA/FSA-14, Applicant/Borrower. Providing the requested information is voluntary. However, failure to furnish the requested information will result in a determination of producer ineligibility to participate in and receive benefits under programs administered by USDA agencies.*

This information collection is exempted from the Paperwork Reduction Act as specified in the Agricultural Act of 2014 (Pub. L. 113-79, Title II, Subtitle G, Funding and Administration). The provisions of appropriate criminal and civil fraud, privacy, and other statutes may be applicable to the information provided. ***RETURN THIS COMPLETED FORM AD-1026 TO YOUR COUNTY FARM SERVICE AGENCY (FSA) OFFICE.***

This form is available electronically.
AD-1026 Appendix
(10-30-14)

U.S. DEPARTMENT OF AGRICULTURE
Farm Service Agency

APPENDIX TO FORM AD-1026
HIGHLY ERODIBLE LAND CONSERVATION (HELC) AND WETLAND CONSERVATION (WC) CERTIFICATION

1. Overview

The following conditions of eligibility are required for a producer to receive any U.S. Department of Agriculture (USDA) loans or other program benefits that are subject to the highly erodible land conservation (HELC) and wetland conservation (WC) provisions. Unless an exemption has been granted by USDA, the producer agrees to all of the following on all farms in which the producer, and any affiliated person to the producer (as specified in 7 CFR Part 12), has an interest:

- **NOT** to plant or produce an agricultural commodity on highly erodible land or fields unless being farmed in accordance with a conservation plan or system approved by the Natural Resources Conservation Service.
- **NOT** to plant or produce an agricultural commodity on a wetland that was converted after December 23, 1985.
- **NOT** to have converted a wetland after November 28, 1990, for the purpose, or to have the effect, of making the production of an agricultural commodity possible on such converted wetland.
- **NOT** to convert a wetland by draining, dredging, filling, leveling, removing woody vegetation, or any other activity that results in impairing or reducing the flow and circulation of water in a way that would allow the planting of an agricultural commodity.
- **NOT** to use proceeds from any Farm Service Agency farm loan, insured or guaranteed, or any USDA financial assistance program, in such a way that might result in negative impacts to a wetland, except for those projects evaluated and approved by Natural Resources Conservation Service.

2. Statutory and Regulatory Authority

The Food Security Act of 1985, as amended, requires producers participating in most programs administered by the Farm Service Agency (FSA), Natural Resources Conservation Service (NRCS), and the Risk Management Agency (RMA) to comply with HELC and WC provisions on all land owned or farmed that is considered highly erodible or a wetland unless USDA determines an exemption applies. Producers participating in these programs, and any individual or entity considered to be an affiliated person of a participating producer, are subject to these provisions. The regulations covering these provisions are set forth at 7 CFR Part 12; all such provisions, whether or not explicitly stated herein, shall apply.

3. Explanation of Terms

Agricultural commodity is **any** crop planted and produced by annual tilling of the soil, including tilling by one-trip planters, or sugarcane.

Highly erodible land is any land that has an erodibility index of 8 or more.

Highly erodible fields are fields where either:

- 33.33 percent or more of the total field acreage is identified as soil map units that are highly erodible; or
- 50 or more acres in such field are identified as soil map units that are highly erodible.

Perennial crop is any crop that is planted once and produces crops over multiple years. Go to www.nrcs.usda.gov/compliance for a list of perennial and annual crops.

Wetland is an area that:

- has a predominance of hydric soils (wet soils);
- is inundated or saturated by surface or groundwater (hydrology) at a frequency and duration sufficient to support a prevalence of hydrophytic (water tolerant) vegetation typically adapted for life in saturated soil conditions; and
- under normal circumstances supports a prevalence of such vegetation, except that this term does not include lands in Alaska identified as having a high potential for agricultural development and a predominance of permafrost soils.

4. NRCS and FSA Determinations

When making HELC and WC compliance determinations:

- NRCS makes technical determinations; these include:
  - For HELC compliance:
    - whether land is considered highly erodible;
    - establishing conservation plans or systems; and
    - whether highly erodible fields are being farmed in accordance with a conservation plan or system approved by NRCS.
  - For WC compliance:
    - whether land is a wetland and if certain technical exemptions apply, such as prior converted;
    - whether a wetland conversion has occurred.

- FSA's responsibilities include:
  - making eligibility determinations, such as who is ineligible based upon NRCS technical determinations of non-compliance.
  - acting on requests for application of certain eligibility exemptions, such as the good faith relief exemption.
  - maintaining the official USDA records of highly erodible land and wetland determinations. The determinations are recorded both within the geographic information system and the automated farm and tract records maintained by FSA; however, it is important to know that determinations may not include all of a producer's land. If a producer is uncertain of the highly erodible land and wetland determinations applicable to any of the producer's land, the producer should contact the appropriate USDA Service Center for assistance.

5. HELC and WC Non-Compliance - FSA and NRCS Programs

Producers who are not in compliance with HELC and WC provisions are not eligible to receive benefits for most programs administered by FSA and NRCS. If a producer received program benefits and is later found to be non-compliant, the producer may be required to refund all benefits received and/or may be assessed a penalty.

In particular, unless exemptions apply, a producer participating in FSA and NRCS programs must: not plant or produce an agricultural commodity on a highly erodible field unless such production is in compliance with a conservation plan or system approved by NRCS; not have planted or produced an agricultural commodity on a wetland converted after December 23, 1985; and, after November 28, 1990, must not have converted a wetland for the purpose, or to have the effect, of making the production of an agricultural commodity possible on such converted wetland.

A producer who violates HELC or WC provisions is ineligible for applicable FSA and NRCS benefits for the year(s) in violation. A planting violation, whether on highly erodible land or a converted wetland, results in ineligibility for benefits for the year(s) when the planting occurred. A wetland conversion violation results in ineligibility beginning with the year in which the conversion occurred and continuing for subsequent years, unless the converted wetland is restored or mitigated before January 1st of the subsequent year.

6. HELC and WC Non-Compliance - Risk Management Agency - Crop Insurance Policies Reinsured by the Federal Crop Insurance Corporation

Producers obtaining federally reinsured crop insurance will not be eligible for any premium subsidy paid by the Federal Crop Insurance Corporation (FCIC) for any policy or plan of insurance if the producer:

- has not filed a completed Form AD-1026 with FSA certifying compliance with HELC and WC provisions; or
- is not in compliance with HELC and WC provisions.

Unless an exemption applies, a producer must:

- not plant or produce an agricultural commodity on a highly erodible field, unless such production is in compliance with a conservation plan approved by NRCS;
- not plant or produce an agricultural commodity on a wetland converted after February 7, 2014; and
- not have converted a wetland for the purpose, or to have the effect, of making the production of an agricultural commodity possible on such converted wetland after February 7, 2014.

A producer is ineligible for any premium subsidy paid by FCIC on all policies and plans of insurance for the reinsurance year (July 1 – June 30) following the reinsurance year of a final determination of a violation of HELC or WC provisions, including all administrative appeals, unless specific exemptions apply. Further, a producer will be ineligible for any premium subsidy paid by FCIC on all policies and plans of insurance for a reinsurance year if they do not have a completed Form AD-1026 on file with FSA certifying compliance on or before the June 1 prior to the beginning of the subsequent reinsurance year (July 1), unless otherwise exempted. RMA will contact FSA to determine compliance with HELC and WC provisions and the filing of Form AD-1026 prior to the beginning of a reinsurance year, which begins on July 1. If the producer is not in compliance and is not exempt, the producer will be ineligible for premium subsidy for all crops with a sales closing date between the following July 1 through the next June 30.

7. Affiliated Persons

Any affiliated person of a producer requesting benefits subject to HELC and WC provisions must also be in compliance with those provisions. Ineligibility of a producer will also apply to affiliated persons of that producer. If an affiliated person has a farming interest (as owner, operator, or other producer on any farm), the affiliated person must also file Form AD-1026 certifying compliance with HELC and WC provisions in order for the producer requesting benefits to be eligible.

Use this table to determine affiliated persons who must be in compliance with HELC and WC provisions and file Form AD-1026. If you are unsure about an affiliated person determination, please contact FSA at your local USDA Service Center for assistance.

IF the producer requesting benefits is a (an) . . .	***THEN** affiliated persons with farming interests who must be in compliance with HELC and WC provisions and file Form AD-1026 are. . .*
individual **NOTE**: For a minor, parents or guardians shall be listed as affiliated persons.	spouses or minor children with separate farming interests, or who receive benefits under their individual ID number.
	estates, trusts, partnerships, and joint ventures in which the individual filing, or the individual's spouse or minor children have an interest.
	corporations in which the individual filing or the individual's spouse or minor children have more than 20% interest.
general partnership limited partnership limited liability company joint venture estate irrevocable or revocable trust Indian tribal venture or group	first level members of the entity.
corporation with stockholders	first level shareholders with more than 20% interest in the corporation. **Note:** First level shareholders of a corporation with 20% interest or less in the corporation are not considered affiliated persons of the corporation.

IMPORTANT NOTICE:
Signature on Form AD-1026 gives representatives of USDA authorization to enter upon and inspect all farms in which the producer in Part A of Form AD-1026 has an interest for the purpose of confirming HELC and WC compliance.

NOTE: *The following statement is made in accordance with the Privacy Act of 1974 (5 USC 552a - as amended). The authority for requesting the information identified on this form is 7 CFR Part 12, the Food Security Act of 1985 (Pub. L. 99-198), and the Agricultural Act of 2014 (Pub. L. 113-79). The information will be used to certify compliance with HELC and WC provisions and to determine producer eligibility to participate in and receive benefits under programs administered by USDA agencies. The information collected on this form may be disclosed to other Federal, State, Local government agencies, Tribal agencies, and nongovernmental entities that have been authorized access to the information by statute or regulation and/or as described in applicable Routine Uses identified in the System of Records Notice for USDA/FSA-2, Farm Records File (Automated) and USDA/FSA-14, Applicant/Borrower. Providing the requested information is voluntary. However, failure to furnish the requested information will result in a determination of producer ineligibility to participate in and receive benefits under programs administered by USDA agencies.*

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WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: T892 F5875 City/County: Chickasaw Sampling Date: 9/18/15

Applicant/Owner: Bochmer Jr State: IA Sampling Point: 1

Investigator(s): Kuennen Section, Township, Range:

Landform (hillslope, terrace, etc.): Upland Drainageway Local relief (concave, convex, none): Convex

Slope (%): 2 Lat: Long: Datum:

Soil Map Unit Name: 171 B NWI classification: U

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ____	No ____	
Hydric Soil Present?	Yes ____	No X	Is the Sampled Area within a Wetland? Yes ____ No X
Wetland Hydrology Present?	Yes ____	No X	

Remarks: upland site. Windbreak/Grove of trees located on West side of farmland Hyla and dry

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: ____)	Absolute % Cover	Dominant Species?	Indicator Status
1. Silver Maple	45	Y	FACW
2. Burr Oak	60	Y	FACW
3.			
4.			
5.			
	____ = Total Cover		
Sapling/Shrub Stratum (Plot size: ____)			
1.			
2.			
3.			
4.			
5.			
	____ = Total Cover		
Herb Stratum (Plot size: ____)			
1. Ragweed	35	Y	FAC
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	____ = Total Cover		
Woody Vine Stratum (Plot size: ____)			
1.			
2.			
	____ = Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 66% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species ____	x 1 = ____
FACW species ____	x 2 = ____
FAC species ____	x 3 = ____
FACU species ____	x 4 = ____
UPL species ____	x 5 = ____
Column Totals: ____ (A)	____ (B)

Prevalence Index = B/A = ____

Hydrophytic Vegetation Indicators:

- ___ 1 - Rapid Test for Hydrophytic Vegetation
- X 2 - Dominance Test is >50%
- ___ 3 - Prevalence Index is ≤3.0[1]
- ___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes X No ____

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: 1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-10	10YR2/1	100					loamy	
10-16	10YR3/3	100					loamy	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ 2 cm Muck (A10)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ 5 cm Mucky Peat or Peat (S3)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ Coast Prairie Redox (A16)
- ___ Dark Surface (S7)
- ___ Iron-Manganese Masses (F12)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes _____ No X

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ True Aquatic Plants (B14)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Gauge or Well Data (D9)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes _____ No X Depth (inches): _____

Water Table Present? Yes _____ No X Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes _____ No X Depth (inches): _____

Wetland Hydrology Present? Yes _____ No X

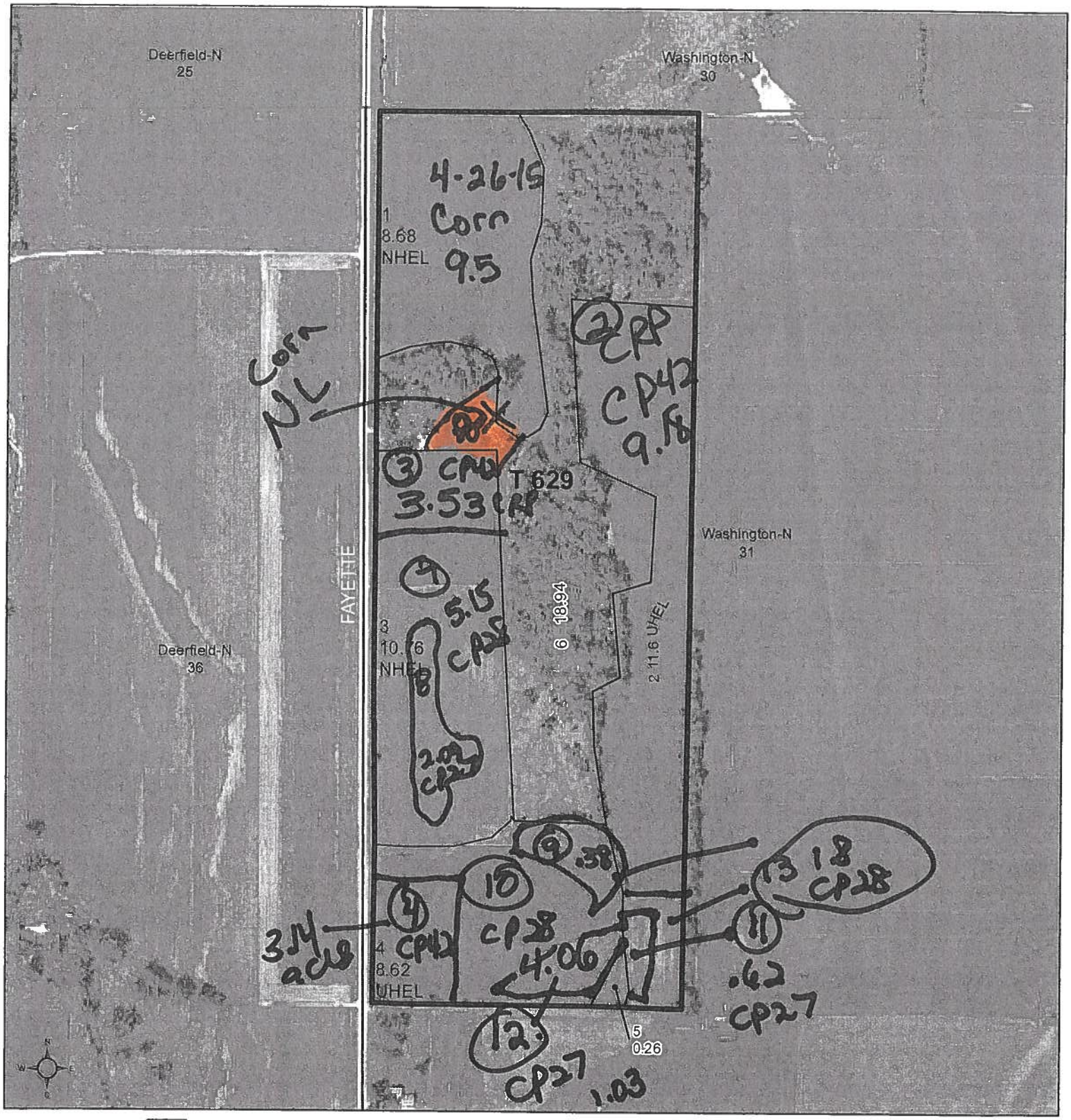
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Upland site high and dry
Grove of trees located next to farmstead

USDA United States Department of Agriculture

Chickasaw County, Iowa



Common Land Unit
- Cropland
- Non-Cropland
- Tract Boundary
- PLSS

Wetland Determination Identifiers
- Restricted Use
- Limited Restrictions
- Exempt from Conservation Compliance Provisions

0 170 340 680 Feet

2014 Ortho Imagery

2015 Program Year

Map Created April 09, 2015

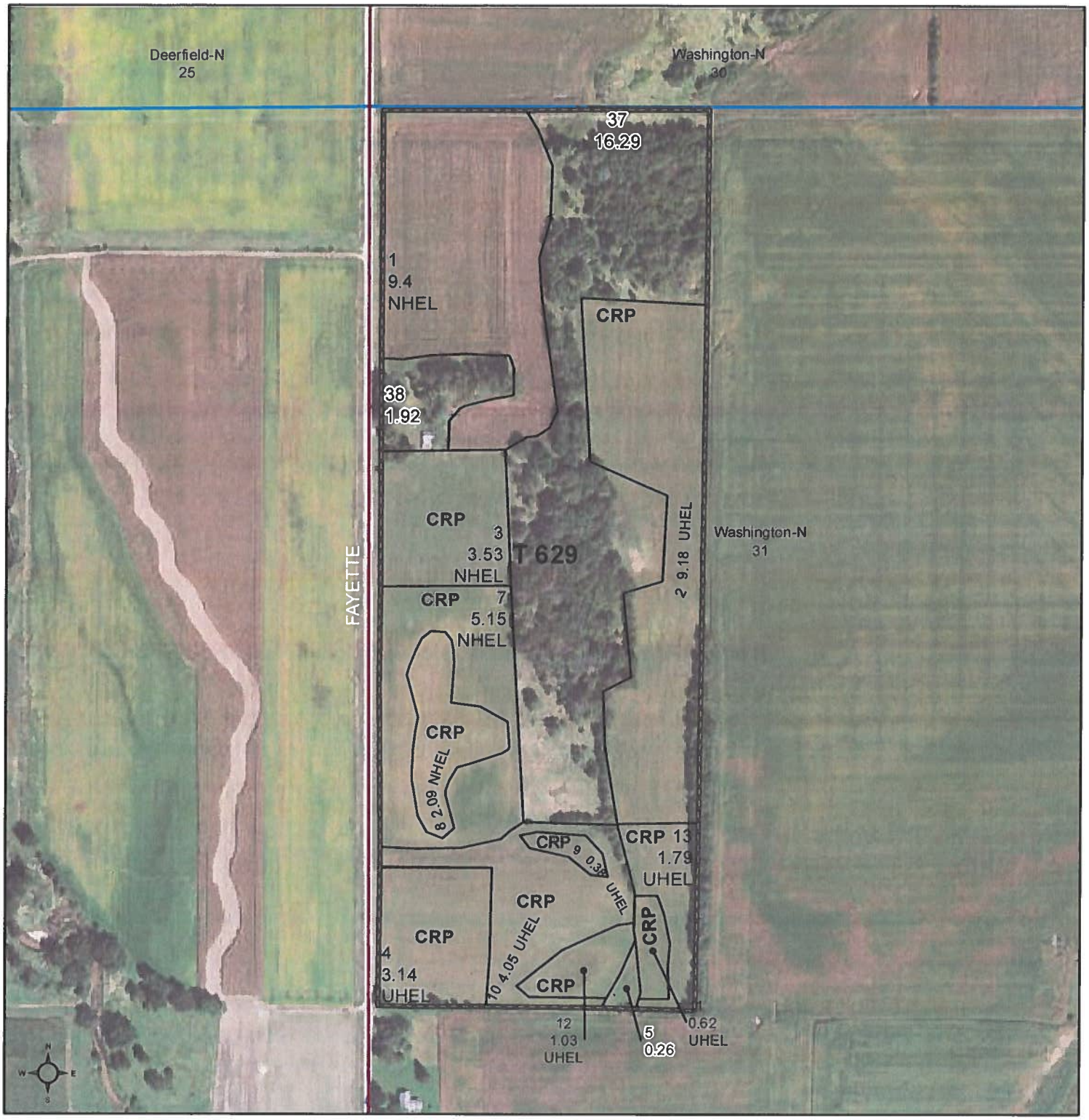
Farm **402**

Tract **629**

Tract Cropland Total: 39.66 acres

USDA United States Department of Agriculture

Chickasaw County, Iowa



Common Land Unit
- Cropland
- Non-Cropland
- CRP
- Tract Boundary
- PLSS

Wetland Determination Identifiers
- Restricted Use
- Limited Restrictions
- Exempt from Conservation Compliance Provisions

0 170 340 680 Feet

2015 Ortho Imagery

2016 Program Year

Map Created April 25, 2016

Farm **402**

Tract **629**

Tract Cropland Total: 40.37 acres

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: T629 F402 City/County: Chickasaw Sampling Date: 8/20/15

Applicant/Owner: Boehmer State: IA Sampling Point: 1

Investigator(s): KLeuver Section, Township, Range:

Landform (hillslope, terrace, etc.): Upland Drainageway Local relief (concave, convex, none): Convex

Slope (%): 2 Lat: Long: Datum:

Soil Map Unit Name: Waupsie loam NWI classification: U

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ____ No X	Is the Sampled Area within a Wetland? Yes ____ No X
Hydric Soil Present?	Yes ____ No X	
Wetland Hydrology Present?	Yes ____ No X	

Remarks: Upland site Mature Oak stand

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: ____)	Absolute % Cover	Dominant Species?	Indicator Status
1. White Oak	70	Y	FACU
2.			
3.			
4.			
5.			
	____ = Total Cover		
Sapling/Shrub Stratum (Plot size: ____)			
1.			
2.			
3.			
4.			
5.			
	____ = Total Cover		
Herb Stratum (Plot size: ____)			
1. Smooth Thistle	10	N	FACU
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	____ = Total Cover		
Woody Vine Stratum (Plot size: ____)			
1. Raspberry	35	Y	FACU
2.			
	____ = Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species ____	x 1 = ____
FACW species ____	x 2 = ____
FAC species ____	x 3 = ____
FACU species ____	x 4 = ____
UPL species ____	x 5 = ____
Column Totals: ____ (A)	____ (B)

Prevalence Index = B/A = ____

Hydrophytic Vegetation Indicators:

- ___ 1 - Rapid Test for Hydrophytic Vegetation
- ___ 2 - Dominance Test is >50%
- ___ 3 - Prevalence Index is ≤3.0[1]
- ___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ____ No X

Remarks: (Include photo numbers here or on a separate sheet.)

Mature Oak timber forest with some open areas within forest

SOIL

Sampling Point: 1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ 2 cm Muck (A10)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ 5 cm Mucky Peat or Peat (S3)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ Coast Prairie Redox (A16)
- ___ Dark Surface (S7)
- ___ Iron-Manganese Masses (F12)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes _____ No X

Remarks:

Wapsie loam 0% hydric

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ True Aquatic Plants (B14)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Gauge or Well Data (D9)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes _____ No X Depth (inches): _____

Water Table Present? Yes _____ No X Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes _____ No X Depth (inches): _____

Wetland Hydrology Present? Yes _____ No X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

upland site, high and dry

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: T629 F402 City/County: Cherokee Sampling Date: 8/20/15

Applicant/Owner: Boehmer State: IA Sampling Point: 2

Investigator(s): Kuennen Section, Township, Range:

Landform (hillslope, terrace, etc.): Upland drainageway Local relief (concave, convex, none): Concave

Slope (%): 2 Lat: Long: Datum:

Soil Map Unit Name: Udalpha loam 5% hydric NWI classification: PEMC

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes X No ____	Is the Sampled Area within a Wetland? Yes X No ____
Hydric Soil Present?	Yes X No ____	
Wetland Hydrology Present?	Yes X No ____	

Remarks: lower lying, depressed area on the edge of timber

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: ____)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	____ = Total Cover		
Sapling/Shrub Stratum (Plot size: ____)			
1.			
2.			
3.			
4.			
5.			
	____ = Total Cover		
Herb Stratum (Plot size: ____)			
1. Blue Vervain	55	Y	FACW
2. Smartweed	35	Y	FACW
3. Prairie Dock	10	N	FAC
4. Water Hemp	10	N	OBL
5.			
6.			
7.			
8.			
9.			
10.			
	____ = Total Cover		
Woody Vine Stratum (Plot size: ____)			
1.			
2.			
	____ = Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species ____	x 1 = ____
FACW species ____	x 2 = ____
FAC species ____	x 3 = ____
FACU species ____	x 4 = ____
UPL species ____	x 5 = ____
Column Totals: ____ (A)	____ (B)

Prevalence Index = B/A = ____

Hydrophytic Vegetation Indicators:

- ___ 1 - Rapid Test for Hydrophytic Vegetation
- X 2 - Dominance Test is >50%
- ___ 3 - Prevalence Index is ≤3.0[1]
- ___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes X No ____

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: 2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ 2 cm Muck (A10)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ 5 cm Mucky Peat or Peat (S3)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ Coast Prairie Redox (A16)
- ___ Dark Surface (S7)
- ___ Iron-Manganese Masses (F12)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes X No ____

Remarks:

Used Variance 5-54 Udolpho loam 85% hydric

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ True Aquatic Plants (B14)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Gauge or Well Data (D9)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- X Geomorphic Position (D2)
- X FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ____ No X Depth (inches): _____

Water Table Present? Yes ____ No X Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes ____ No X Depth (inches): _____

Wetland Hydrology Present? Yes X No ____

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: T 629 F402 City/County: Chickasaw Sampling Date: 8/20/15

Applicant/Owner: Behmer State: IA Sampling Point: 3

Investigator(s): Kuennen Section, Township, Range:

Landform (hillslope, terrace, etc.): upland Drainageway Local relief (concave, convex, none): Convex

Slope (%): 2 Lat: Long: Datum:

Soil Map Unit Name: Hayfield loam NWI classification: [redacted] U

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ____	No X	Is the Sampled Area within a Wetland? Yes ____ No X
Hydric Soil Present?	Yes ____	No X	
Wetland Hydrology Present?	Yes ____	No X	

Remarks: Mature Oak stand

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: ____)	Absolute % Cover	Dominant Species?	Indicator Status
1. Burr oak	65	Y	FACU
2. Boxelder	25	Y	FAC
3.			
4.			
5.			
	____ = Total Cover		
Sapling/Shrub Stratum (Plot size: ____)			
1.			
2.			
3.			
4.			
5.			
	____ = Total Cover		
Herb Stratum (Plot size: ____)			
1. Ragweed	5	N	FACu
2. Creeping Thistle	30	Y	FACU
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	____ = Total Cover		
Woody Vine Stratum (Plot size: ____)			
1.			
2.			
	____ = Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 33% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species ____	x 1 = ____
FACW species ____	x 2 = ____
FAC species ____	x 3 = ____
FACU species ____	x 4 = ____
UPL species ____	x 5 = ____
Column Totals: ____ (A)	____ (B)

Prevalence Index = B/A = ____

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

___ 2 - Dominance Test is >50%

___ 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ____ No X

Remarks: (Include photo numbers here or on a separate sheet.)

Distinct vegetative change from wetter area on edge of timber

SOIL

Sampling Point: 3

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-8	10YR 3/2	100					loamy	
8-14	10YR 4/3	100					loamy	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ 2 cm Muck (A10)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ 5 cm Mucky Peat or Peat (S3)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ Coast Prairie Redox (A16)
- ___ Dark Surface (S7)
- ___ Iron-Manganese Masses (F12)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes _____ No X

Remarks:

Hayfield loam 10% hydric

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ True Aquatic Plants (B14)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Gauge or Well Data (D9)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes _____ No X Depth (inches): _____

Water Table Present? Yes _____ No X Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes _____ No X Depth (inches): _____

Wetland Hydrology Present? Yes _____ No X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Site is an upland oak timber stand High and dry

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: T629 F402 City/County: Chickasaw Sampling Date: 8/20/15

Applicant/Owner: Bohner State: IA Sampling Point: 4

Investigator(s): Knutson Section, Township, Range:

Landform (hillslope, terrace, etc.): Upland Drainage Local relief (concave, convex, none): Concave

Slope (%): 2 Lat: Long: Datum:

Soil Map Unit Name: Clyde NWI classification: U

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes X No ____	Is the Sampled Area within a Wetland? Yes ____ No X
Hydric Soil Present?	Yes ____ No ____	
Wetland Hydrology Present?	Yes ____ No X	

Remarks: 2-3' cut ditch running thru area removed hydrology.

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: ____)	Absolute % Cover	Dominant Species?	Indicator Status
1. Boxelder	35	Y	FACW
2.			
3.			
4.			
5.			
	= Total Cover		
Sapling/Shrub Stratum (Plot size: ____)			
1.			
2.			
3.			
4.			
5.			
	= Total Cover		
Herb Stratum (Plot size: ____)			
1. Prairie Cord Grass	25	Y	FACW
2. Canada Goldenrod	20	Y	FACU
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	= Total Cover		
Woody Vine Stratum (Plot size: ____)			
1.			
2.			
	= Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 66% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species ____	x 1 = ____
FACW species ____	x 2 = ____
FAC species ____	x 3 = ____
FACU species ____	x 4 = ____
UPL species ____	x 5 = ____
Column Totals: ____ (A)	____ (B)

Prevalence Index = B/A = ____

Hydrophytic Vegetation Indicators:

- ____ 1 - Rapid Test for Hydrophytic Vegetation
- X 2 - Dominance Test is >50%
- ____ 3 - Prevalence Index is ≤3.0[1]
- ____ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes X No ____

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: 4

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-16	10YR 2/1	95	7.5YR 5/6	5	C	PL	silty clay loam	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ 2 cm Muck (A10)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ 5 cm Mucky Peat or Peat (S3)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- X Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ Coast Prairie Redox (A16)
- ___ Dark Surface (S7)
- ___ Iron-Manganese Masses (F12)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes X No ____

Remarks:

Clyde soil 100% hydric meets F6 criteria

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ True Aquatic Plants (B14)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Gauge or Well Data (D9)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ____ No X Depth (inches): ____

Water Table Present? Yes ____ No (Depth (inches): ____

Saturation Present? (includes capillary fringe) Yes ____ No (Depth (inches): ____

Wetland Hydrology Present? Yes ____ No X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

2-3" cut ditch running thru area removes hydrology

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: T629 F402 City/County: Chickasaw Sampling Date: 8/20/15

Applicant/Owner: Bechner State: IA Sampling Point: 5

Investigator(s): Kuennen Section, Township, Range:

Landform (hillslope, terrace, etc.): Upland Drainageway Local relief (concave, convex, none): Convex

Slope (%): 2 Lat: Long: Datum:

Soil Map Unit Name: [redacted] Schley loam NWI classification: U

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ____	No X	Is the Sampled Area within a Wetland? Yes ____ No X
Hydric Soil Present?	Yes ____	No ____	
Wetland Hydrology Present?	Yes ____	No X	

Remarks: Thick, older forested area. Flat & little undergrowth

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: ____)	Absolute % Cover	Dominant Species?	Indicator Status
1. Oak	30	Y	FACU
2. Poplar	70	Y	FAC
3.			
4.			
5.			
	____ = Total Cover		
Sapling/Shrub Stratum (Plot size: ____)			
1.			
2.			
3.			
4.			
5.			
	____ = Total Cover		
Herb Stratum (Plot size: ____)			
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	____ = Total Cover		
Woody Vine Stratum (Plot size: ____)			
1.			
2.			
	____ = Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 50 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species ____	x 1 = ____
FACW species ____	x 2 = ____
FAC species ____	x 3 = ____
FACU species ____	x 4 = ____
UPL species ____	x 5 = ____
Column Totals: ____ (A)	____ (B)

Prevalence Index = B/A = ____

Hydrophytic Vegetation Indicators:

__ 1 - Rapid Test for Hydrophytic Vegetation

__ 2 - Dominance Test is >50%

__ 3 - Prevalence Index is ≤3.0[1]

__ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

__ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ____ No X

Remarks: (Include photo numbers here or on a separate sheet.)

Thick canopy, little to ~~no~~ undergrowth

SOIL

Sampling Point: 5

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-8	10YR3/1	100					loamy	
8-18	10YR4/3	100					loamy	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ 2 cm Muck (A10)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ 5 cm Mucky Peat or Peat (S3)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ Coast Prairie Redox (A16)
- ___ Dark Surface (S7)
- ___ Iron-Manganese Masses (F12)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes _____ No X

Remarks: Schley loam

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ True Aquatic Plants (B14)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Gauge or Well Data (D9)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes _____ No X Depth (inches): _____

Water Table Present? Yes _____ No X Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes _____ No X Depth (inches): _____

Wetland Hydrology Present? Yes _____ No X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Flat, upland forest site

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: T629 F402 City/County: Chickasaw Sampling Date: 8/20/15

Applicant/Owner: Boehmer State: IA Sampling Point: 6

Investigator(s): Kuennen Section, Township, Range:

Landform (hillslope, terrace, etc.): Upland Drainageway Local relief (concave, convex, none): Concave

Slope (%): 2 Lat: Long: Datum:

Soil Map Unit Name: Clyde NWI classification: U

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes X	No ____	Is the Sampled Area within a Wetland? Yes X No ____
Hydric Soil Present?	Yes X	No ____	
Wetland Hydrology Present?	Yes X	No ____	

Remarks: area has few trees growing in it. Meandering ww/stream flows thru area currently Ditch is 1' or less deep. Hummocky area

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: ____)	Absolute % Cover	Dominant Species?	Indicator Status
1. Green Ash	20	Y	FACW
2.			
3.			
4.			
5.			
	____ = Total Cover		
Sapling/Shrub Stratum (Plot size: ____)			
1.			
2.			
3.			
4.			
5.			
	____ = Total Cover		
Herb Stratum (Plot size: ____)			
1. Prairie Cord Grass	60	Y	FACW
2. Hummock Sedges	25	Y	FACW
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	____ = Total Cover		
Woody Vine Stratum (Plot size: ____)			
1.			
2.			
	____ = Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species ____	x 1 = ____
FACW species ____	x 2 = ____
FAC species ____	x 3 = ____
FACU species ____	x 4 = ____
UPL species ____	x 5 = ____
Column Totals: ____ (A)	____ (B)

Prevalence Index = B/A = ____

Hydrophytic Vegetation Indicators:

- ____ 1 - Rapid Test for Hydrophytic Vegetation
- X 2 - Dominance Test is >50%
- ____ 3 - Prevalence Index is ≤3.0[1]
- ____ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes X No ____

Remarks: (Include photo numbers here or on a separate sheet.)

Good hydrophytic vegetation

SOIL

Sampling Point: 6

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ 2 cm Muck (A10)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ 5 cm Mucky Peat or Peat (S3)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ Coast Prairie Redox (A16)
- ___ Dark Surface (S7)
- ___ Iron-Manganese Masses (F12)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes X No ____

Remarks:

Used Variance 5-54 Clyde soil 100% hydric

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ True Aquatic Plants (B14)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Gauge or Well Data (D9)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- X Geomorphic Position (D2)
- X FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ____ No X Depth (inches): _____

Water Table Present? Yes ____ No X Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes ____ No X Depth (inches): _____

Wetland Hydrology Present? Yes X No ____

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Hummocky area, ~~Wet~~ located within a Clyde draw

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: T629 F402 City/County: Chickasaw Sampling Date: 8/20/15

Applicant/Owner: Boehmer State: IA Sampling Point: 7

Investigator(s): Brennan Section, Township, Range:

Landform (hillslope, terrace, etc.): Upland Drainageway Local relief (concave, convex, none): Convex

Slope (%): 2 Lat: Long: Datum:

Soil Map Unit Name: Floyd loam NWI classification: U

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)

Are Vegetation X, Soil X, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ____ No X

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ____	No X	Is the Sampled Area within a Wetland? Yes ____ No X
Hydric Soil Present?	Yes ____	No X	
Wetland Hydrology Present?	Yes ____	No X	

Remarks: Point was taken on edge of corn field and in NC area. Sight and corn field is high and dry

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: ____)	Absolute % Cover	Dominant Species?	Indicator Status
1. Cottonwood	70	Y	FAC
2.			
3.			
4.			
5.			
	= Total Cover		
Sapling/Shrub Stratum (Plot size: ____)			
1.			
2.			
3.			
4.			
5.			
	= Total Cover		
Herb Stratum (Plot size: ____)			
1. [redacted] Corn	40	Y	FACU
2. Burdock			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	= Total Cover		
Woody Vine Stratum (Plot size: ____)			
1.			
2.			
	= Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 33% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:	
OBL species	x 1 =	
FACW species	x 2 =	
FAC species	x 3 =	
FACU species	x 4 =	
UPL species	x 5 =	
Column Totals: (A)		(B)

Prevalence Index = B/A =

Hydrophytic Vegetation Indicators:

__ 1 - Rapid Test for Hydrophytic Vegetation

__ 2 - Dominance Test is >50%

__ 3 - Prevalence Index is ≤3.0[1]

__ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

__ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ____ No X

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: 7

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-8	10YR2/1	100					loamy	
8-16	2.5Y 4/4	100					loamy	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ 2 cm Muck (A10)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ 5 cm Mucky Peat or Peat (S3)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ Coast Prairie Redox (A16)
- ___ Dark Surface (S7)
- ___ Iron-Manganese Masses (F12)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes _____ No X

Remarks:

Floyd loam 5% hydric

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ True Aquatic Plants (B14)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Gauge or Well Data (D9)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes _____ No X Depth (inches): _____

Water Table Present? Yes _____ No X Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes _____ No X Depth (inches): _____

Wetland Hydrology Present? Yes _____ No X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Sto is high and dry

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: T629 F402 City/County: Chickasaw Sampling Date: 8/20/15

Applicant/Owner: Barkmeier State: IA Sampling Point: 8

Investigator(s): Kuennen Section, Township, Range:

Landform (hillslope, terrace, etc.): Upland Drainageway Local relief (concave, convex, none): Concave

Slope (%): 2 Lat: Long: Datum:

Soil Map Unit Name: Ida silt loam NWI classification: U

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes X	No ____	Is the Sampled Area within a Wetland? Yes X No ____
Hydric Soil Present?	Yes X	No ____	
Wetland Hydrology Present?	Yes X	No ____	

Remarks: Point is located at the bottom of a long WW. No cropping history and surrounded on both sides by cropped fields now with CRP

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: ____)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	____ = Total Cover		

Sapling/Shrub Stratum (Plot size: ____)			
1.			
2.			
3.			
4.			
5.			
	____ = Total Cover		

Herb Stratum (Plot size: ____)			
1. Reed Canary Grass	50	Y	FACW
2. Ragweed	30	Y	FAC
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	____ = Total Cover		

Woody Vine Stratum (Plot size: ____)			
1.			
2.			
	____ = Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:	
OBL species	x 1 =	
FACW species	x 2 =	
FAC species	x 3 =	
FACU species	x 4 =	
UPL species	x 5 =	
Column Totals: (A)		(B)

Prevalence Index = B/A = ____

Hydrophytic Vegetation Indicators:

- ___ 1 - Rapid Test for Hydrophytic Vegetation
- ☑ 2 - Dominance Test is >50%
- ___ 3 - Prevalence Index is ≤3.0[1]
- ___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes X No ____

Remarks: (Include photo numbers here or on a separate sheet.)

Distinct Vegetative change

SOIL

Sampling Point: 8

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ 2 cm Muck (A10)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ 5 cm Mucky Peat or Peat (S3)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ Coast Prairie Redox (A16)
- ___ Dark Surface (S7)
- ___ Iron-Manganese Masses (F12)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes X No ____

Remarks:

Used Variance 5-54 Udolpho loam 85% hydric

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ True Aquatic Plants (B14)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Gauge or Well Data (D9)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- X Geomorphic Position (D2)
- X FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ____ No X Depth (inches): _____

Water Table Present? Yes ____ No X Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes ____ No X Depth (inches): _____

Wetland Hydrology Present? Yes X No ____

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Point is located on the bottom end of a long WW, located along fence line. Point is located slightly lower than surrounding crop ground.

Wetland Polygon Features

Field No	Wetland Label	Acres	Tract No
1	Prior Converted Cropland	8.7	629
2	Prior Converted Cropland	11.5	629
3	Prior Converted Cropland	10.8	629
4	Prior Converted Cropland	8.5	629
5	Wetland	0.4	629
6	Non Wetland	14.8	629
6	Wetland	0.9	629
6	Wetland	3.2	629

9/21/15

Field 1 9.9ac NHEL 9/21/15

2 11.6 ac 3/3/88

3 10.8ac

4 8.6a

3:30

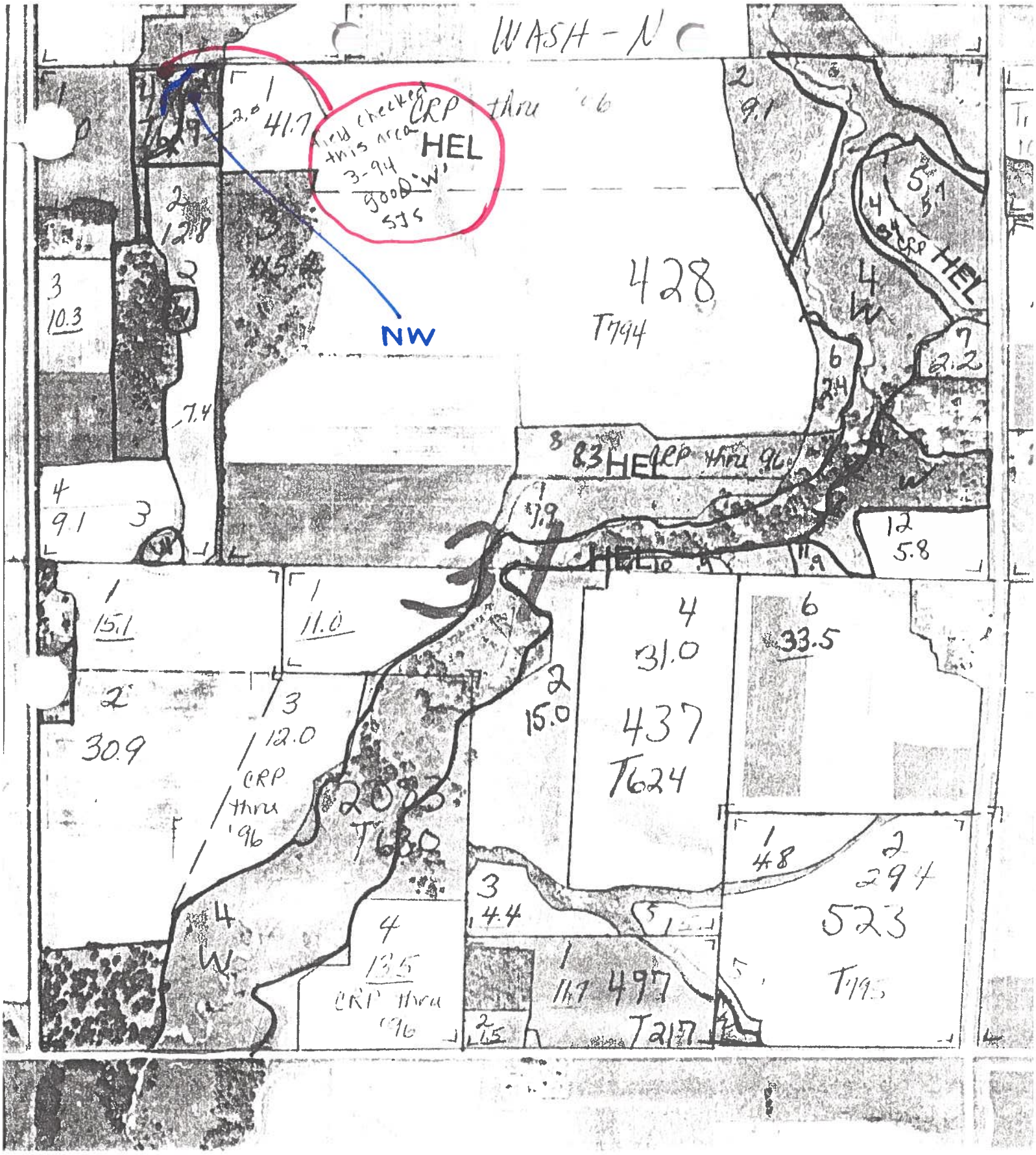
12

4:30

1¾

1¼

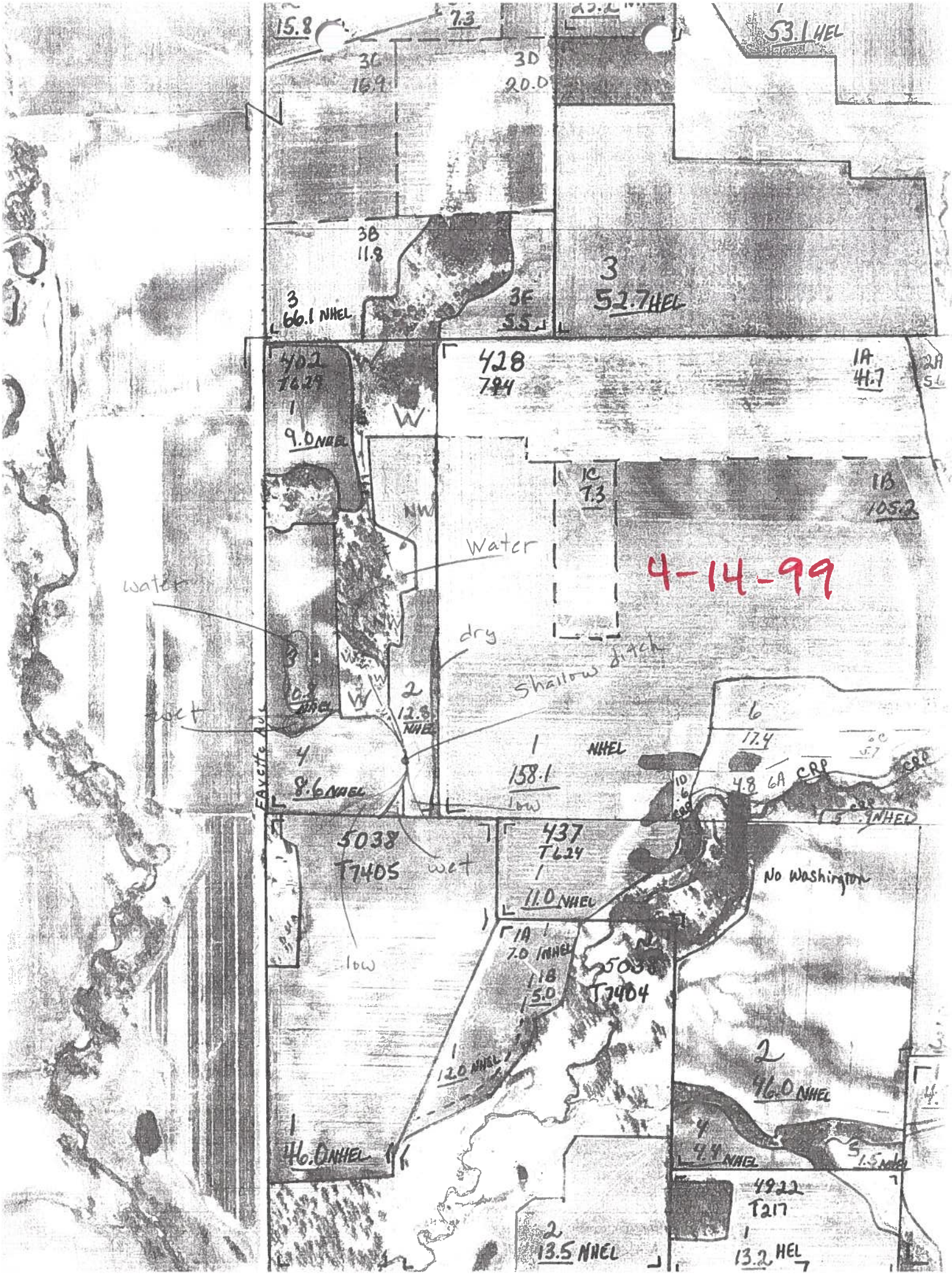
2½



NOT TO SCALE (1979 FLIGHT) CHICKASAW CO.

D-2

Any Area Not Delineated And Labeled Are Either Non Wetland Areas Or Prior Converted Wetlands


15.8
7.3
3C
16.9
3D
20.0
53.1 HEL
3B
11.8
3
66.1 NHEL
3E
3.5
3
52.7 HEL
402
T629
1
9.0 NHEL
428
7.9
1A
41.7
1C
7.3
1B
105.2
4-14-99
water
Water
dry
shallow ditch
wet
Fayette Ave
2
12.8
NHEL
4
8.6 NHEL
1
NHEL
158.1
low
6
17.4
4.8
CA
CRP
5 NHEL
5038
T405
437
T624
1
11.0 NHEL
No Washington
low
1A
7.0 NHEL
1B
5.0
5038
T404
1
12.0 NHEL
1
46.0 NHEL
2
46.0 NHEL
4
4.4 NHEL
1.5 NHEL
4922
T217
1
13.2 HEL
2
13.5 NHEL