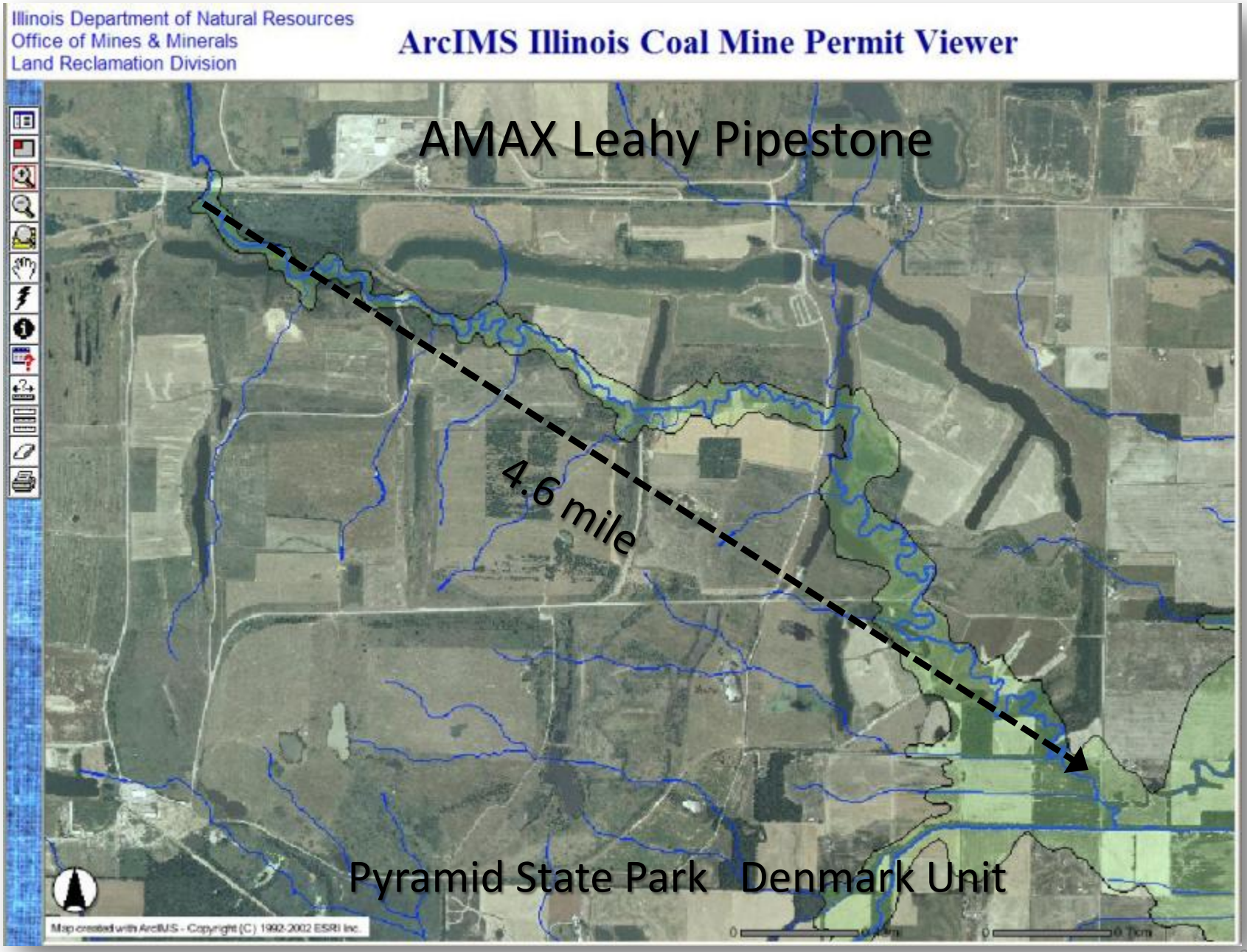
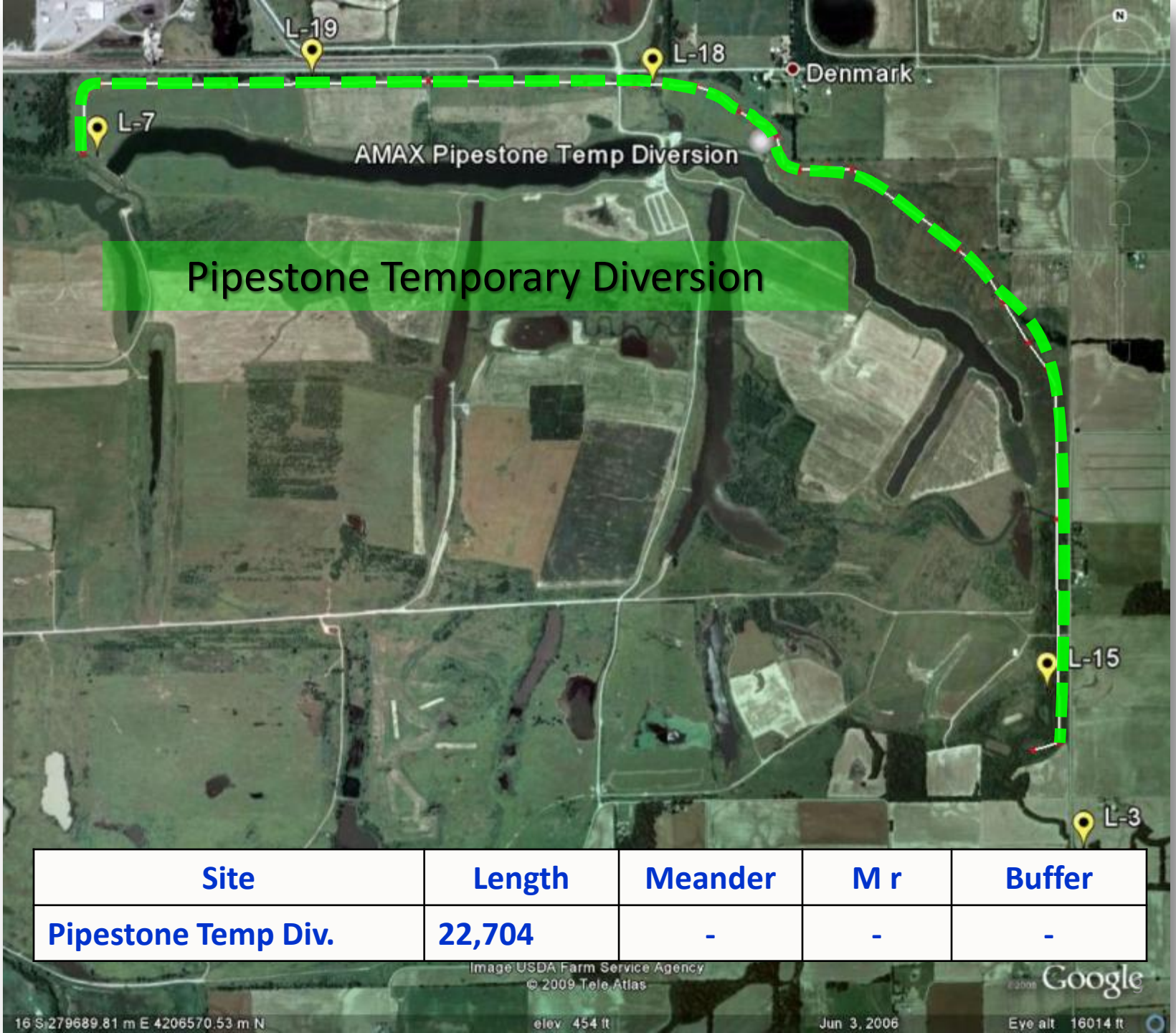
Pipestone Creek

Former AMAX Leahy Mine

IDNR Pyramid State Fish and Wildlife Area


Illinois Department of Natural Resources
Office of Mines & Minerals
Land Reclamation Division
ArcIMS Illinois Coal Mine Permit Viewer
AMAX Leahy Pipestone
4.6 mile
Pyramid State Park Denmark Unit
Map created with ArcIMS - Copyright (C) 1992-2002 ESRI Inc.

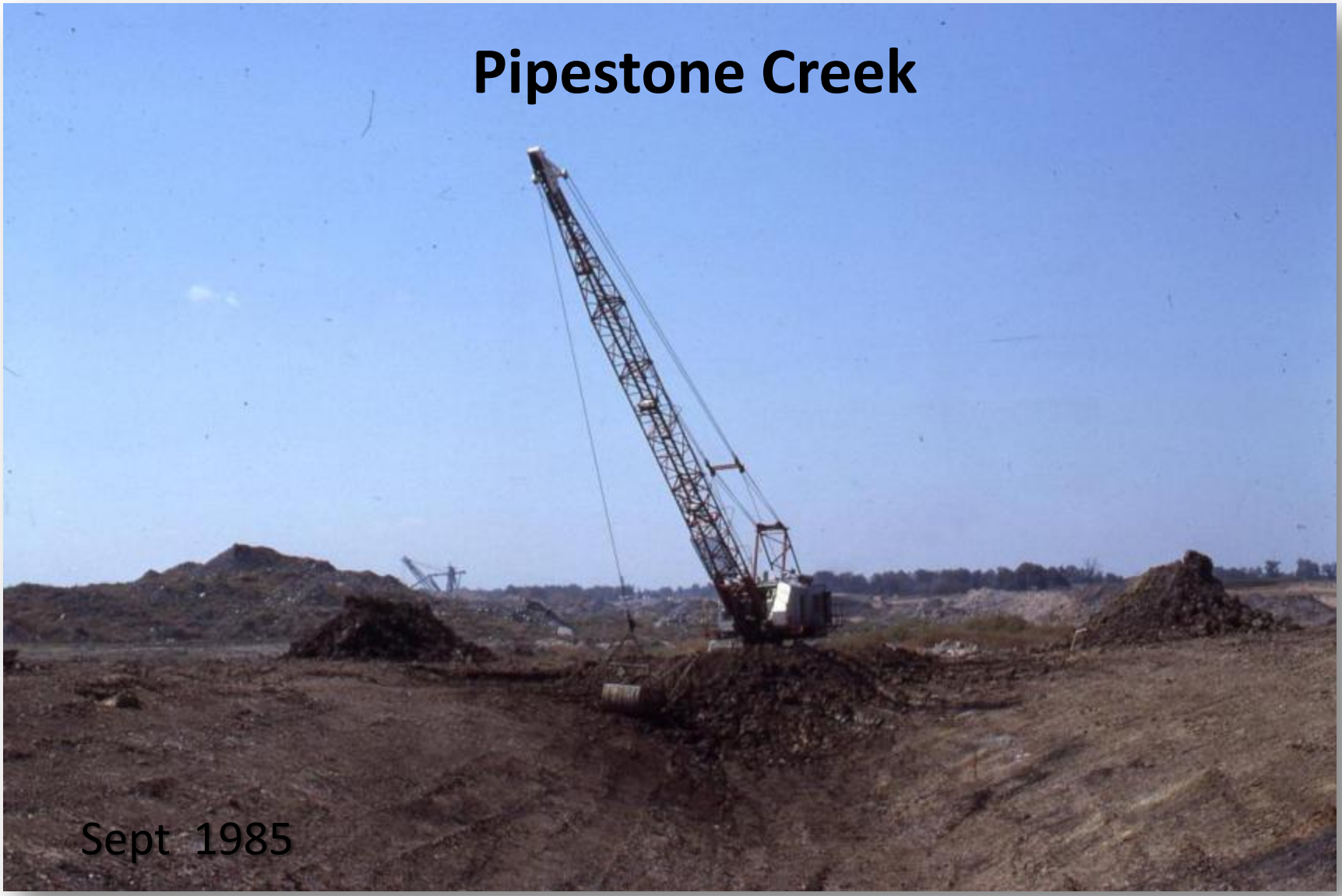


Pipestone Temporary Diversion

Site	Length	Meander	M r	Buffer
Pipestone Temp Div.	22,704	-	-	-

Site	Length	Meander	M r	Buffer
Pipestone Rest.	16,685	24,288 (4.6 mi)	1.45	300-750

AMAX Leahy



Sept 1985 (reconnection Fall 1991)

May 2010 (Reconnection Fall 1991)

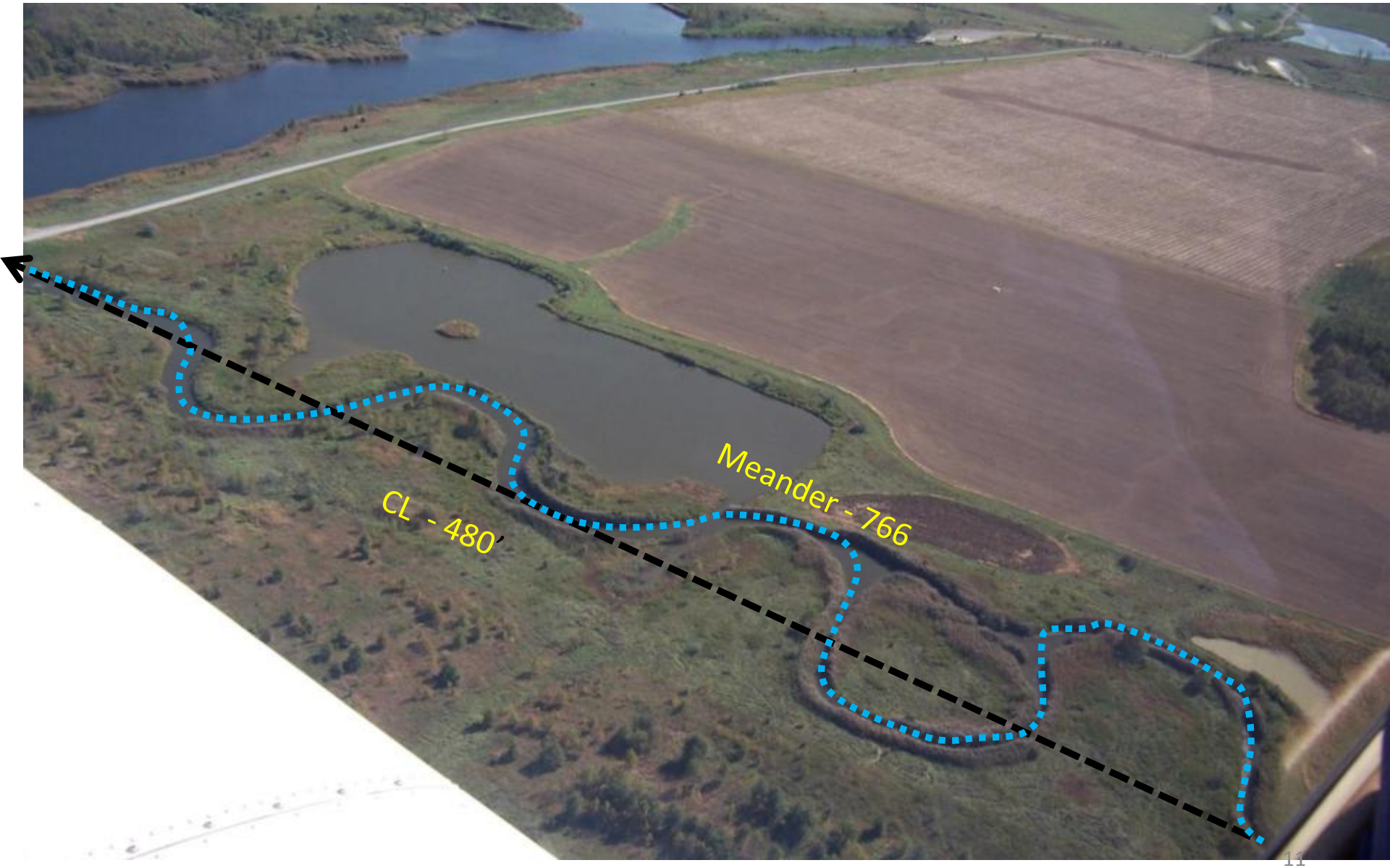
Sept 1985
(Reconnection Fall 1991)

June 2005 (Reconnection Fall 1991)

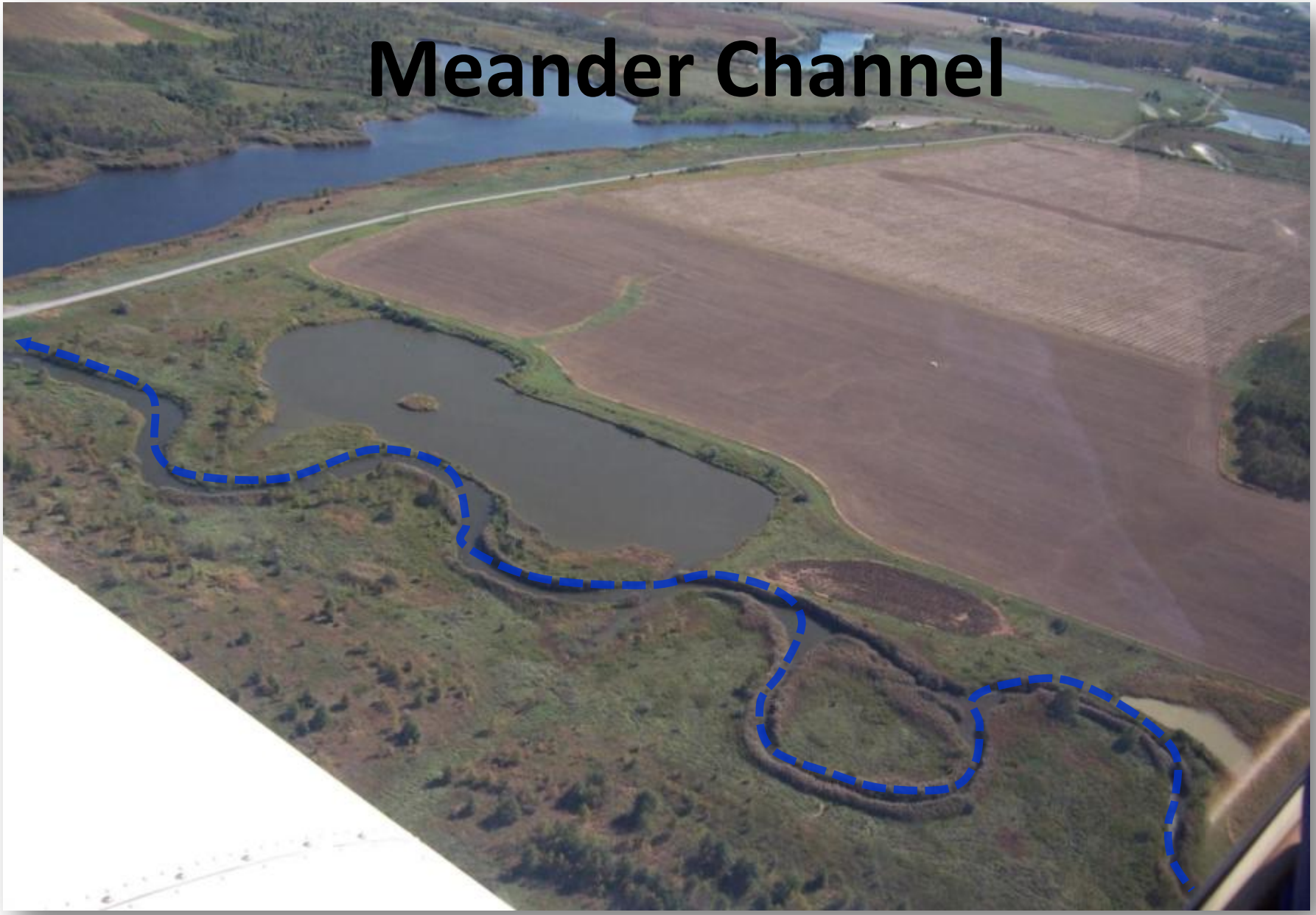
Design

Floodplain Wetland
Conservation Buffer / Corridor - 500 – 750 ‘
Meander

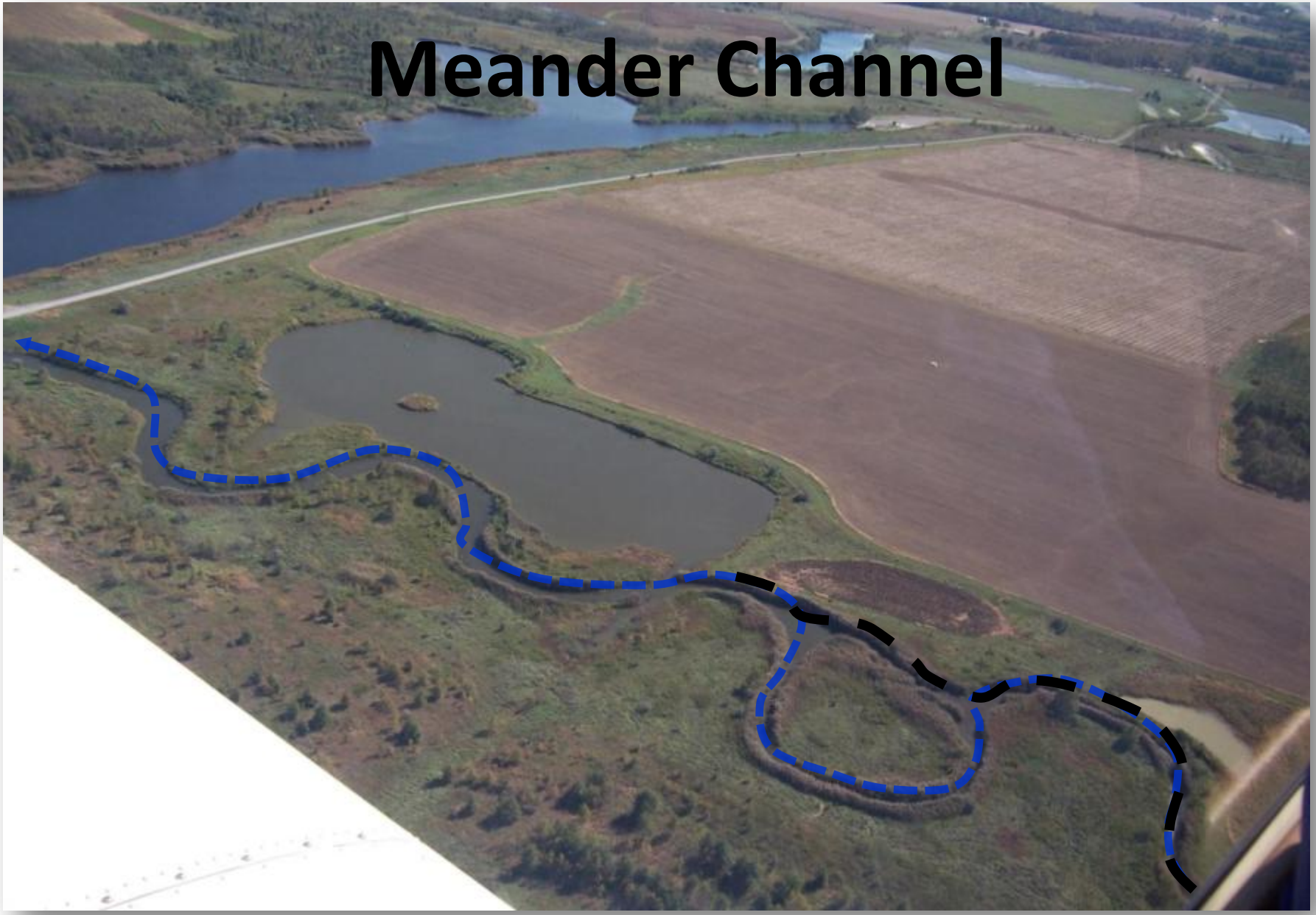
Design



Meander Channel

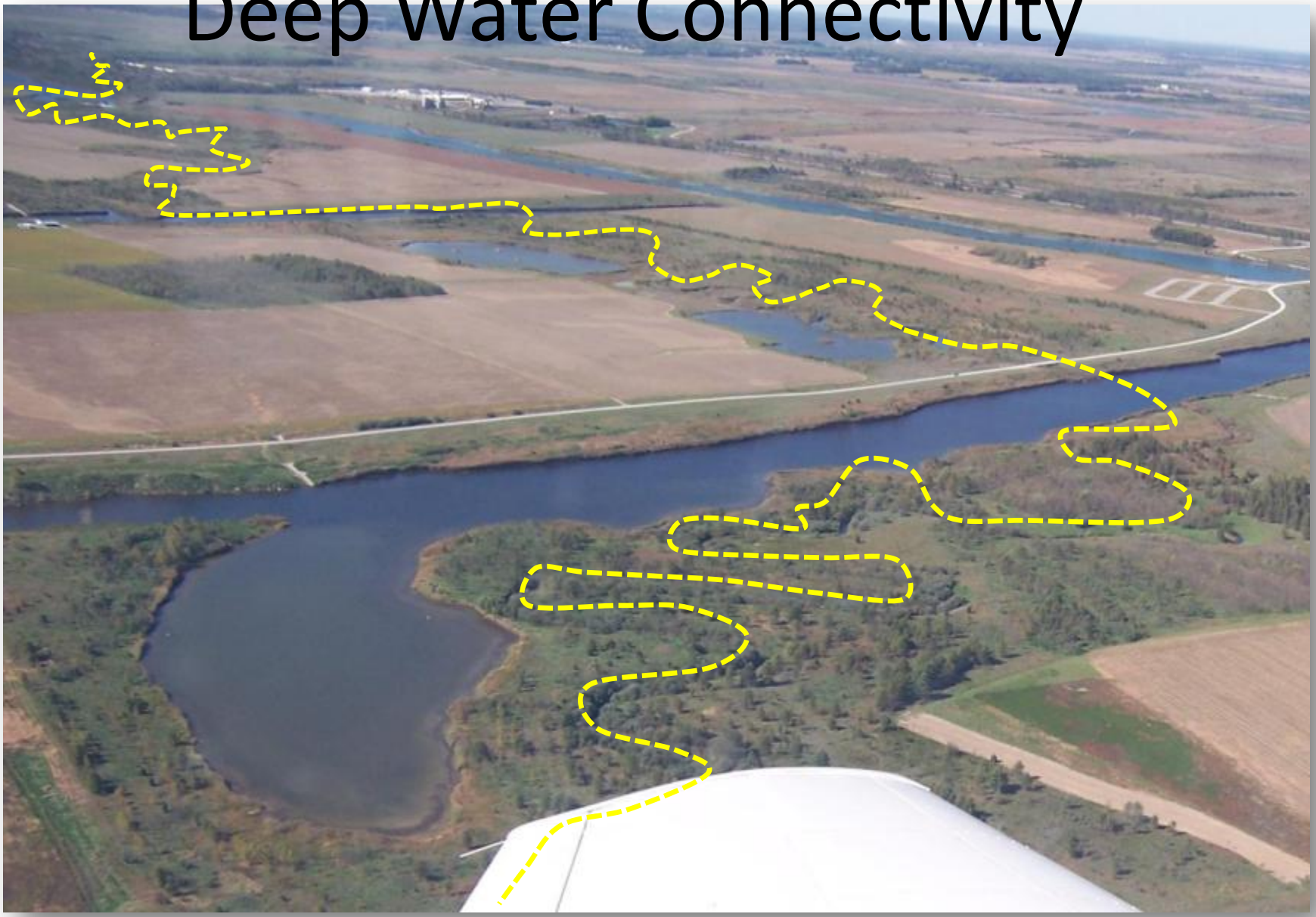


Meander Channel



Deep Water Connectivity

Deep Water Connectivity



Post Construction Monitoring: 5 yrs

- Water Quality
- Fish
- Aquatic Inverts

SPRING and FALL

Unaffected

Upstream
Downstream

Restored

Upper
Central
Lower

Sediment Reduction

Pipestone *June 92	Turbid (NTU)	SS (ppm)	Fe (total)	pH
Upstream - L7	36	34	0.98	7.2
Downstream - R3	8	3	0.23	6.8
November 93				
Upstream - L7	26	28	1.14	9.2
Downstream - R3	8	12	0.62	8.3

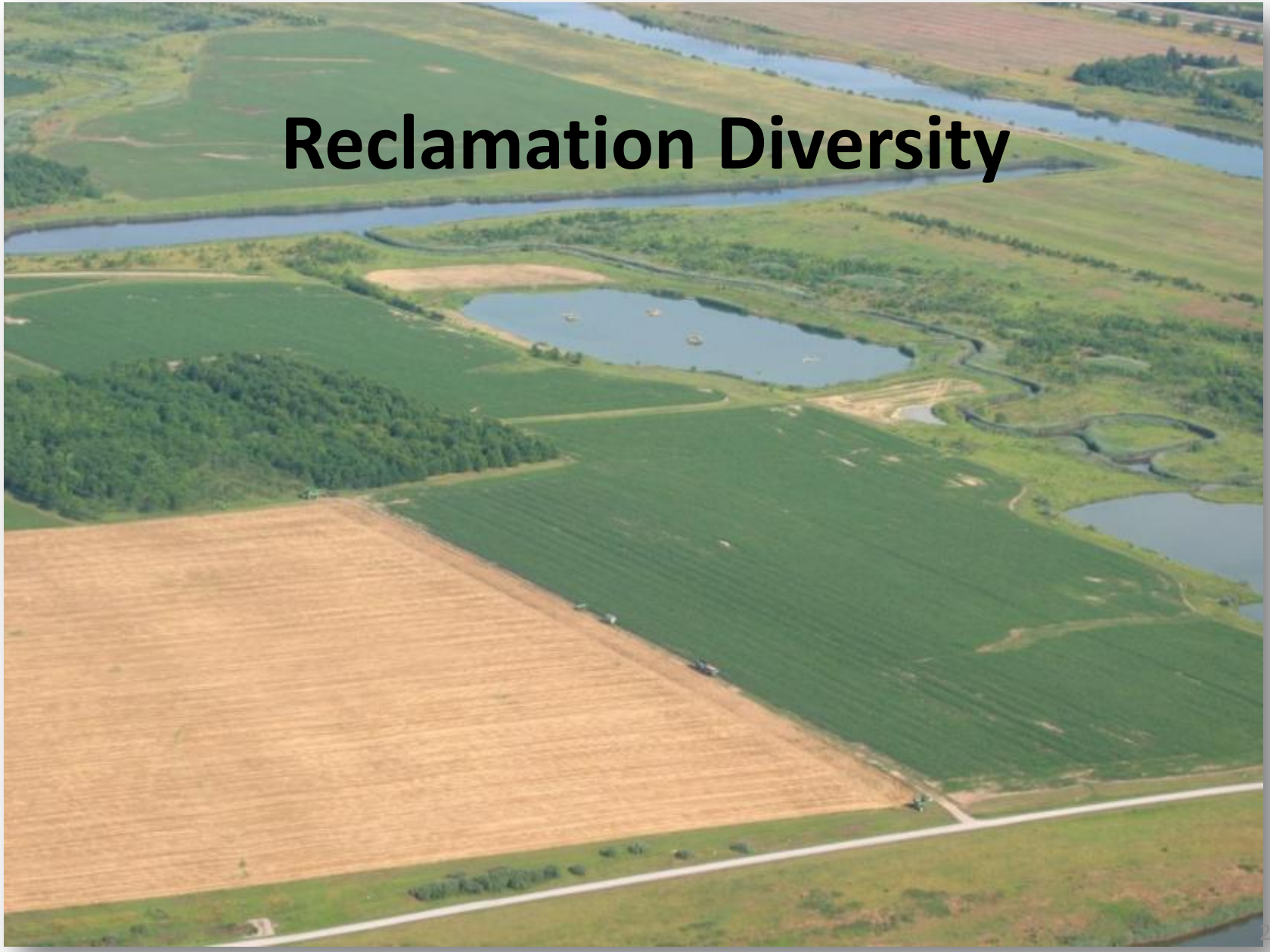
* Restoration reconnection downstream of L7 prior to June 92

Monitoring: “Indicator“ Species

Pipestone					
Winter 95	L7	R1	R2	R3	L3
Brook Silversides	19	>50	>50	34	-
Blackstripe Top Min.	1	0	15	4	2
Mayfly (Canidae)	-	-	P	P	-
Flies (Chironomidae)	P	P		P	P
Stonefly ’88 (Perlidae)					40

* Restoration reconnection downstream of L7 prior to June 92

PIPESTONE:



PIPESTONE: