Project Inspection Report

Prepared for

Clearwater River Watershed District

Wenck

May 2000

Wenck Associates, Inc.
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May 4, 2000

Mr. John Tracy
President
Clearwater River Watershed District
P.O. Box 481
Annandale, MN 55302

Re: Project Inspection Report
Wenck File #0002-14-02

Dear Mr. Tracy:

The Clearwater River Watershed District projects were inspected between April 24, 2000 and April 26, 2000. The attached table contains the inspection results and our recommendations of maintenance activities with estimated costs. The figures show where maintenance activities are required and the photographs show existing conditions for each project.

Our recommendation is to solicit quotes and complete the required maintenance work this summer or fall as weather permits.

Sincerely,

WENCK ASSOCIATES, INC.

Norman C. Wenck, P.E.
President

Attachments

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Table

TABLE 1

Clearwater River Watershed District
Annual Project Inspection

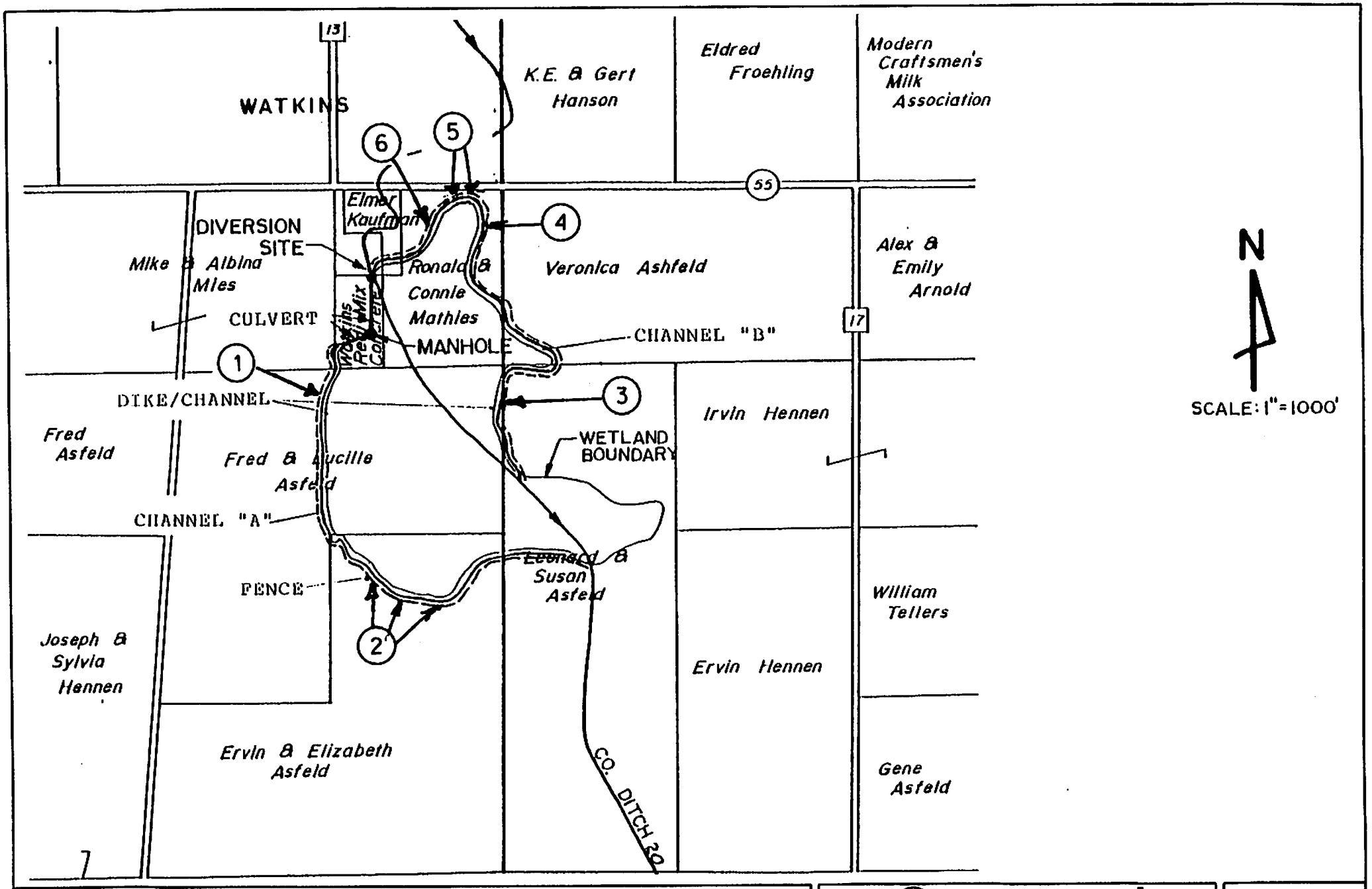
	Maintenance			Estimated Cost
	Required	Optional	No Action Now	
Watkins Wetland Treatment Project (South) *(See Figure 1)*				
1. Sediment in ditch from end of culvert to 300 feet downstream (west side). 300 ft. x 10 ft. x 2 ft. = 225 C.Y.	X			$2,000.00
2. Three small washouts along south side stabilized and revegetated.			X	
3. Beavers on east side - water level high and channel ports plugged.		X		$500.00 plus Kevin 8 hours
4. Fence needs repair and tightening along east side and north side.	X			Kevin 8 hours
5. Two washouts on north berm. - One at culvert under Highway 55 - 8 ft. wide. - One 200 ft. west of culvert - 6 ft. wide.	X			$2,000.00
6. Sediment in ditch from gabion structure to 1,000 feet downstream (east side). 1,000 ft. x 10 ft. x 2 ft. = 750 C.Y.	X			$5,000.00
Annandale Wetland Treatment System *(See Figure 2)*				
1. Outlet structure and stop logs in good condition.			X	
2. Fence needs repair and tightening. Southwest ditch.	X			Kevin 4 hours
Upper Watkins Wetland Isolation Project (North) *(See Figure 3)*				
1. Small washout in northwest ditch 3 ft. wide stabilized and well vegetated.			X	
2. Ditch along south side filled in with sediment from farm field. 200 ft. x 15 ft. x 3 ft. = 330 C.Y.			X	Talk to farmer for buffer strip
3. Fence repair and tightening.	X			Kevin 8 hours
School Section Lake Outlet Project *(See Photo 11)*				
1. Outlet structure in good condition.			X	
2. Culverts and structures downstream in good condition.			X	
3. Water level 20 ft. from end of culvert.			X	

TABLE 1

Clearwater River Watershed District
Annual Project Inspection

	Maintenance			Estimated Cost
	Required	*Optional*	*No Action Now*	
Pleasant Lake Outlet Project *(See Photo 12)*				
1. Overflow structure in good condition.			X	
2. Water level 1.0 ft. below overflow level.			X	
Lake Augusta Erosion Control Project *(See Figure 4)*				
1. Structure and overflow in good condition.			X	
Kingston Wetland Treatment Project *(See Figure 5)*				
1. Water levels high on east end. Beavers in ditch - some channel ports plugged.	X			$500.00 plus Kevin 8 hours
2. Beaver dam in ditch 300 ft. west of culvert. Water level 2 ft. lower to west.			X	
3. Beaver dam in ditch water 2 ft. lower to west.			X	
4. Beaver dam in ditch/partly washed out.			X	
5. Fence repair and tightening.	X			Kevin 16 hours
6. Sediment delta in ditch -southwest sed basin to 900 ft. downstream. 900 ft. x 10 ft. x 2 ft. = 650 C.Y.	X			$5,000.00
7. Washout 75 ft. south of first overflow structure.	X			$2,000.00
8. Water enters old river channel 1,000 ft. upstream of State Highway 15.			X	
9. Sediment has filled in 300 ft. of 900 ft. sed basin.			X	
Aerator Buildings				
1. Lake Louisa Building needs staining.	X			$20.00 Kevin 4 hours
2. Lake Marie Building needs staining and new door.	X			$300.00 Kevin 8 hours
3. Lake Augusta Building needs staining and rain gutters repaired.	X			$100.00 Kevin 8 hours
TOTALS	$16,920 plus 56 hours of Kevin	$500 plus 8 hours of Kevin	$0	

Figures



CLEARWATER RIVER WATERSHED DISTRICT

Watkins Wetland Treatment System

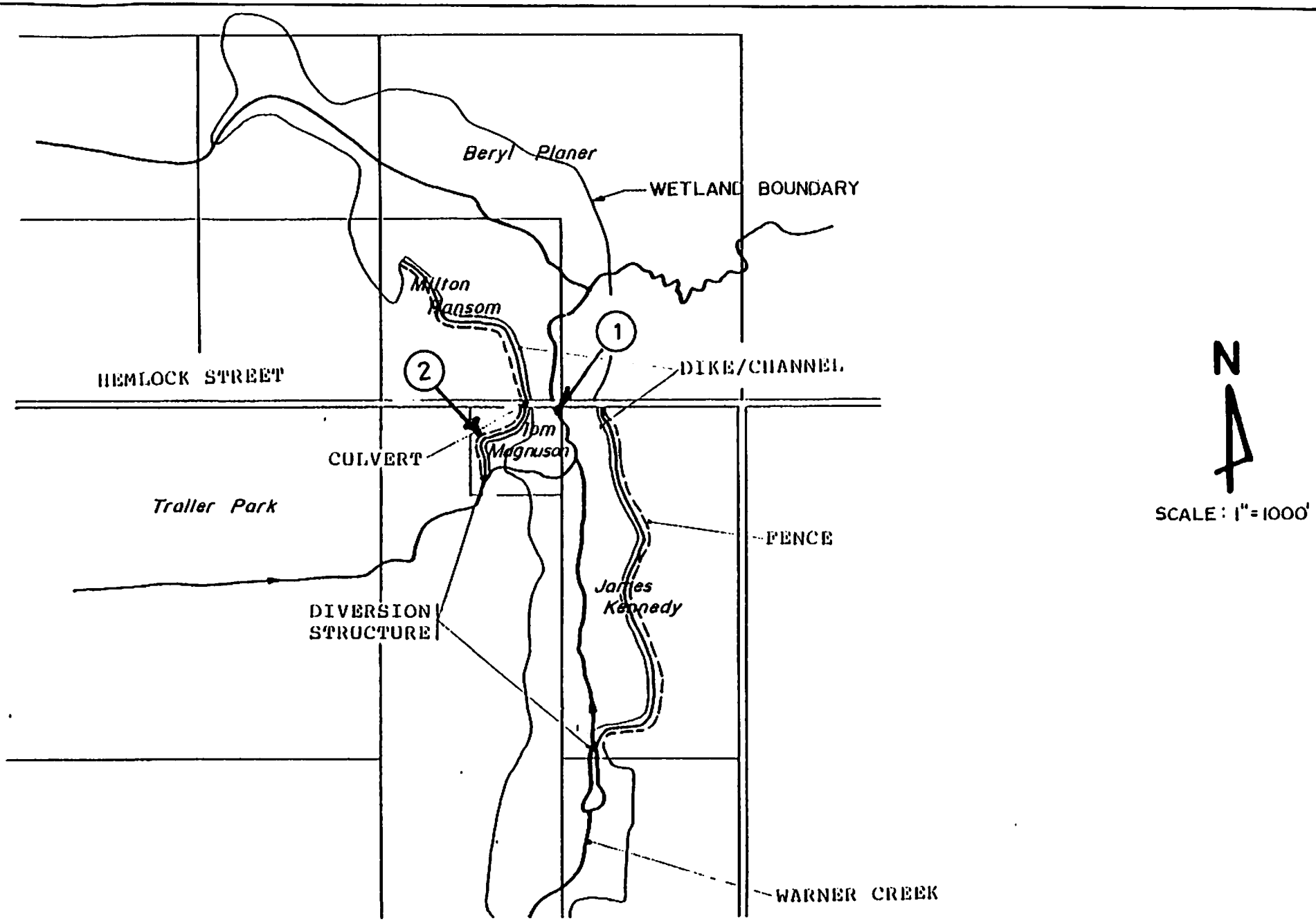
Wenck

Wenck Associates, Inc.
Environmental Engineers

1800 Pioneer Creek Center
Maple Plain, MN 55359

MAY, 2000

Figure 1



CLEARWATER RIVER WATERSHED DISTRICT

Annandale Wetland Treatment System

Wenck

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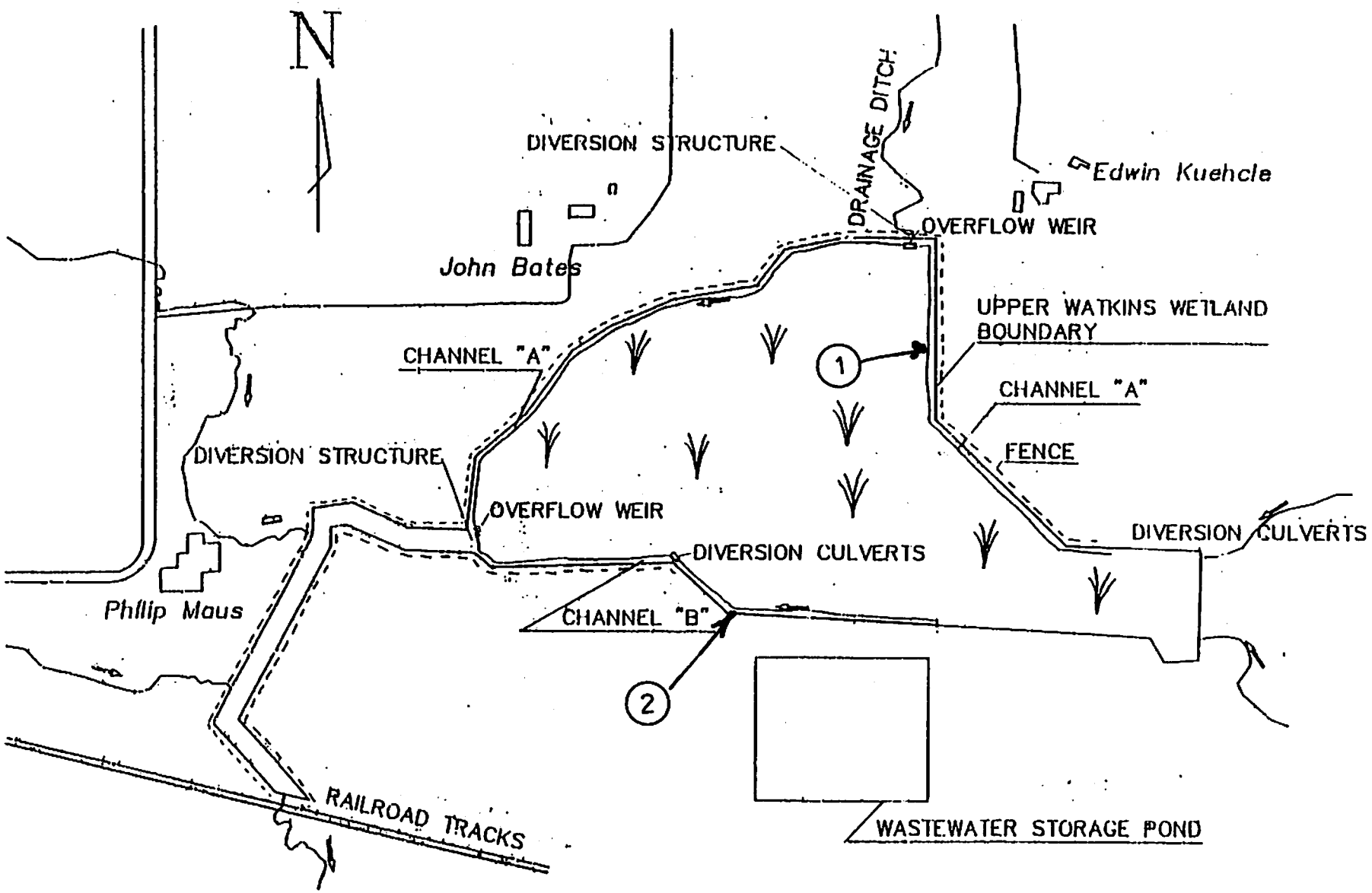
Environmental Engineers

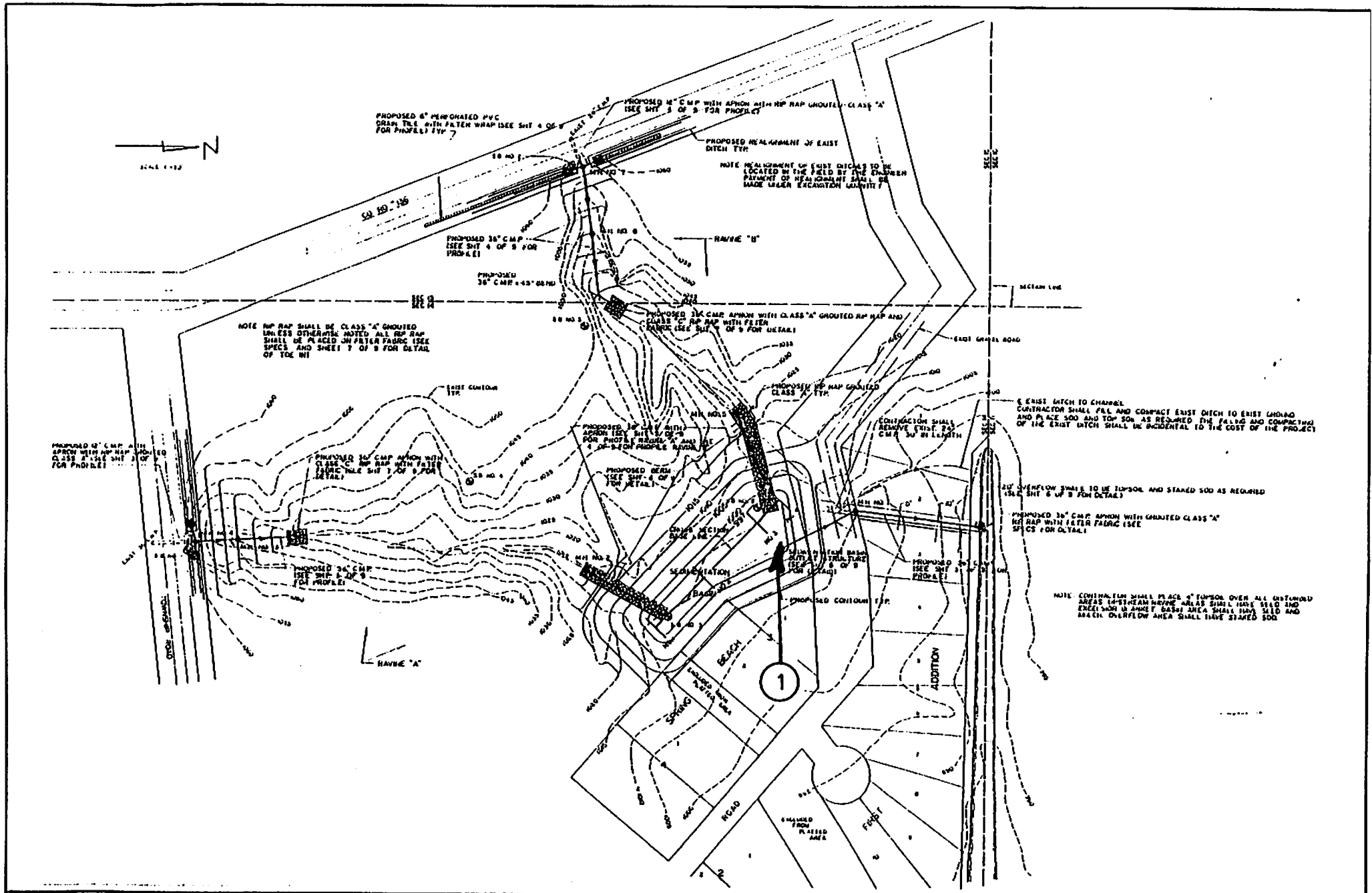
1800 Pioneer Creek Center
Maple Plain, MN 55359

MAY, 2000

Figure 2



CLEARWATER RIVER WATERSHED DISTRICT	Wenck Associates, Inc. Environmental Engineers 1800 Pioneer Creek Center Maple Plain, MN 55359	MAY, 2000
Upper Watkins Wetland Isolation Project		Figure 3



CLEARWATER RIVER WATERSHED DISTRICT

Lake Augusta Erosion Control Project

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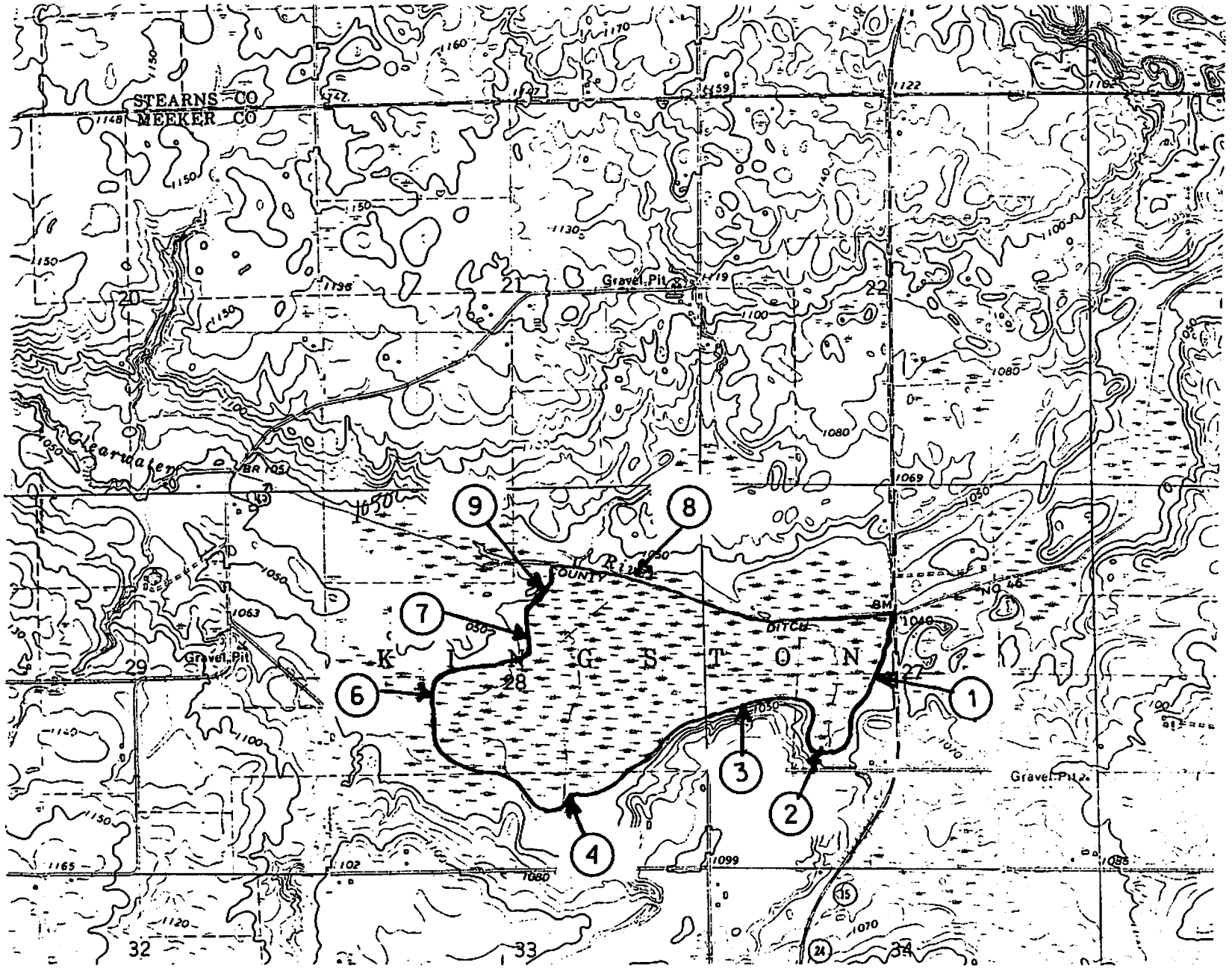
Figure 4



CLEARWATER RIVER WATERSHED DISTRICT

Kingston Wetland Treatment System

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MAY, 2000

Figure 5

Photographs

1. **Watkins Wetland Treatment Project Typical Ditch Section.**

2. **Annandale Wetland Treatment Project Control, Outlet Structure.**

3. Upper Watkins
Wetland Isolation Project.

4. Upper Watkins
Wetland Isolation Project.
North Ditch Controls.

5. **School Section**
Lake Outlet Project.
New Outlet Structure.

6. **Pleasant Lake**
Outlet Project .
Outlet Structure.

7. Lake Augusta
Erosion Control Project.
Sedimentation Basin and Overflow Structure.

8. Kingston Wetland Treatment Project
Sedimentation Basin.

9. Kingston Wetland Treatment Project
Berm Washout at West Overflow Structure.

10. Kingston Wetland Treatment Project
Beaver Dam on Southeast Side.

11. **Kingston Wetland Treatment Project**
Silted in Ditch West Side.

12. **Aerator Building**
Lake Louisa.

Wenck

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