

May 12, 2010

Mr. Marvin Brunsell, Chairperson
Clearwater River Watershed District
PO Box 481
Annandale, MN 55302

Re: 2010 Project Inspection Report
Wenck File # 0002-148

Dear Mr. Brunsell:

This 2010 Project Inspection Report was prepared for the Clearwater River Watershed District as part of the operation and maintenance activities for the District's Projects.

The District's projects were inspected by Dennis Loewen and Wes Boll in March and April 2010. The attached Table 1 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 selected projects. Repair work at the Kingston Wetland Treatment System, Segner Pond, Rest-a-While Shores, Highway 55 fish trap, and Swartout Lake fish barrier are recommended for this year.

Our recommendation is to solicit at least three quotes for the work at the Kingston Wetland, Rest-a-While Shores, Highway 55 fish trap, and Segner Pond and complete the required maintenance work this summer or fall as weather permits.

The estimated contractor costs are \$20,000 for repair projects, \$5,500 for Hidden River and Rest-a-While Shores Septic Tank Pumping; and 80 hours and \$3,500 for equipment rental and supplies for Kevin Wittrock and District staff to perform minor maintenance items.

Sincerely,

WENCK ASSOCIATES, INC.

Norman C. Wenck, P.E.

cc: CRWD Board of Managers
Merle Anderson
Dennis Loewen

2010 Project Inspection Report

Prepared for

**Clearwater River
Watershed
District**

Wenck File # 0002-148

May 2010

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Tables

Table 1
Clearwater River Watershed District
Annual Project Inspection
May 2010

Project	Maintenance			Estimated Cost
	Required	Optional	No Action Now	
Upper Watkins Wetland Isolation Project (North)				
1. Spray thistles.	✓			Kevin-4 Hours + \$200 for materials
Watkins Wetland Treatment System (South) (see Photos 1 and 2)				
1. Rock overflow berms operating properly.			✓	
2. Tile inlet and outlet functioning properly			✓	
3. Most ports are operating.			✓	
4. East and north channels in good condition			✓	
Clear Lake Inlet V-Notch (North) (See Photo 3)				
1. V-notch weir outlet structure in good condition.			✓	
Nistler Sedimentation Basin (see Photo 4).				
1. Sedimentation basin in good condition.			✓	
Kingston Wetland Treatment System (see Figure 1 and Photos 5 and 6)				
1. Newly installed rock overflow berm installed as designed and operating properly.			✓	
2. Cleanout clogged ports along upstream portion of berm.	✓			District will coordinate repair and plans to use Meeker County Sentenced to Serve crew to assist.
3. Remove beaver dams.	✓			District will coordinate removal of dams in conjunction with port cleanout.
4. Fix breach in berm, install rock overflow, and repair bridge.	✓			\$7,500
5. Overflow structure operating properly.			✓	

**Table 1
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May 2010**

Project	Maintenance			Estimated Cost
	Required	Optional	No Action Now	
Highway 55 Fish Trap				
1. Place smaller rock along stream bottom in fish trap to facilitate netting.	✓			\$2,000
Aerator Buildings (See Photos 7 and 8)				
1. Lake Augusta-Remove trash and patch woodpecker hole in siding.	✓			District will coordinate repair- not to exceed \$200
2. Lake Marie- Good condition, no maintenance needed.			✓	
School Section Lake Outlet Project (See Photo 9).				
1. Outlet is in good condition.			✓	
Rest-a-While Shores Wastewater Treatment System (See Photos 23 and 24)				
1. Pump septic tank.	✓			Contract Pumper: Estimated \$3,000
2. Repair clogged standpipe in sediment basin.	✓			\$2,000
3. Remove dead trees.	✓			District will coordinate removal of trees - \$200
Hidden River Wastewater Treatment System				
1. Summer weed control and ditch mowing.	✓			Kevin- 8 hrs + \$300 for equipment
2. Pump 15 individual septic tanks as required by schedule.	✓			Contract Pumper: Estimated \$2,500
Clearwater Harbor Wastewater Treatment System				
1. Summer weed control	✓			Kevin-8 hrs + \$300 for equipment
Annandale Wetland Treatment System (see Photo 10).				
1. Beaver dam that is blocking southeast channel needs to be removed.		✓		Kevin-16 hours + \$300 for equipment
2. Outlet structure in good condition.			✓	

**Table 1
Clearwater River Watershed District
Annual Project Inspection
May 2010**

Project	Maintenance			Estimated Cost
	Required	Optional	No Action Now	
Pleasant Lake Outlet Project (See Photo 11)				
1. In good condition, no maintenance needed			✓	
Lake Augusta Erosion Control Project (See Photos 12 and 13).				
1. Outlet and riser in good condition.			✓	
2. Tree in inlet box.			✓	District staff already removed tree from inlet box.
2. Trim vegetation around fence.			✓	
Norton Ave Sediment Basin (See Photo 14)				
1. No maintenance needed.			✓	
Eddie Schultz Buffer (See Photo 15)				
1. No maintenance needed.			✓	
Wandering Ponds Wastewater System				
1. Rely on Bernie Miller report.			✓	
Henshaw Lake Outlet (See Photo 16)				
1. Outlet and fish barrier in good condition.			✓	
Swartout Lake Fish Barriers (See Photos 17 and 18)				
1. Barrier at outlet is in good condition.			✓	
2. Barrier at inlet on southeast side of lake is in need of repair.	✓			District will coordinate repair-\$1,800
Illsley Ave Fish Barrier (See Photo 19)				
1. Fish barrier in good condition and operating properly.			✓	
Segner Pond (See Figure 2 and Photos 20-22)				
1.Diversion structure operating properly.			✓	
2.Add limestone to three low spots in limestone berm.	✓			District will coordinate repair using limestone stockpile on site.
3.Repair bank erosion in diversion channel near fish barrier.	✓			\$8,500

Table 2
SEWER SYSTEM MAINTENANCE

Hidden River Wastewater System

1. Individual septic tank pump out , based on sludge and scum depth, checked every two years.
2. Check inspection riser on drain field for broken or cracked pipes and caps.
3. Flush distribution lines in the sand filter.
4. Open control panel and check pump run lights at lift stations and treatment site.
5. Pull out pump effluent filters in dosing tank and clean
6. Check vegetation at treatment site, mow grass, and remove unwanted trees.
7. Open all manholes in the collection lines and look for signs of debris or plugging.

Rest-a-While Wastewater Treatment System

1. Individual septic tank pump out, based on sludge and scum depth, checked every two years.
2. Check inspection riser on drain field for broken or cracked pipes and caps.
3. Check aerator for proper operation.
4. Open control panel and check pump run lights at lift stations and treatment site.
5. Pull out pump effluent filters in dosing tank and clean.
6. Check vegetation at treatment site, mow grass, and remove unwanted trees.
7. Open all manholes in the collection lines and look for signs of debris or plugging.
8. Check access road for erosion. Crushed rock may need to be applied.
9. Check sediment basins for depth to sediment and erosion.

Clearwater Harbor Wastewater Treatment System

1. Check community septic tank monthly. Pump as needed.
2. Check inspection riser on drain field for broken or cracked pipes and caps.
3. Flush distribution lines in the sand filter.
4. Open control panel and check pump run lights at lift stations and treatment site.
5. Pull out pump effluent filters in dosing tank and clean.
6. Check vegetation at treatment site, mow grass, and remove unwanted trees.
7. Open all manholes in the collection lines and look for signs of debris plugging.

**Table 3
Hidden River Pumping Schedule**

Parcel ID #	Address	Date Tank Installed	Permit #	Block	Lot	2003	2004	2005	2006	2007	2008	2009	2010	Notes:	Name
19.10722.560	14656 Hidden River Dr.	8/1/2003	18-18458	5	2			05		07		09			Christopher & Marie Schneider
19.10722.565	14687 Hidden River Dr.	No Records Found		OUTLOT A											
19.10722.558	14688 Hidden River Dr.	9/23/2004	19-19331	5	1				06			09			Michael Merten
19.10722.556	14714 Hidden River Dr.	No Records Found		4	5										
19.10722.554	14736 Hidden River Dr.	9/12/2003	19-18397	4	4			05		07		09			Kevin & Lynn Kottke
19.10722.552	14758 Hidden River Dr.	10/28/2005	19-20191	4	3						08		10		Travis & Mary Jenniges
19.10722.550	14782 Hidden River Dr.	11/23/2005	19-20192	4	2						08		10		Joshua D & Anita E Trutwin
19.10722.520	14791 Hidden River Dr.	11/5/2003	19-18717	2	7				06		08		10		Douglas & Colleen Anderson
19.10722.548	14804 Hidden River Dr.	9/9/2003	19-18580	4	1				06		08		10		Scott A & Jodi M Wroblewski
19.10722.518	14825 Hidden River Dr.	10/30/2001	19-17222	2	6		04		06		08		10		Eric J & Tami Kolehmainen
19.10722.546	14826 Hidden River Dr.	10/27/2005	19-20237	3	13						08		10		Jeffrey S & Theresa A. Gendreau
19.10722.516	14683 Hidden River Dr.	10/7/2002	19-17999	2	5			05		07		09		Note: Tax records show address as 14863 not 14683.	Jason & Kelly Buboltz
19.10722.542	14872 Hidden River Dr.	11/16/2004	19-19513	3	10				06		08		10		Russ & Jeanne E Pearson
19.10722.538	14916 Hidden River Dr.	No Records Found		3	9										
19.10722.514	14917 Hidden River Dr.	12/15/2000	19-16679	2	4	03		05		07		09			James E Sunderland
19.10722.536	14938 Hidden River Dr.	8/3/2005	19-20008	3	8						08		10		Adam L Anderson
19.10722.534	14962 Hidden River Dr.	No Records Found		3	7										
19.10722.532	14984 Hidden River Dr.	No Records Found		3	6										
19.10722.512	15015 Hidden River Dr.	4/7/2006	19-20286	2	3						08		10		Michael R & Michelle L Murray
19.10722.530	15016 Hidden River Dr.	No Records Found		3	5										
19.10722.528	15028 Hidden River Dr.	8/19/2002	19-17670	3	4			05		07		09			Jeremy & Gena Rosnow
19.10722.526	15042 Hidden River Dr.	9/25/2003	19-18739	3	3				06		08		10		Shane & Tabitha Allen
19.10722.510	15057 Hidden River Dr.	9/10/2003	19-18744	2	2				06		08		10		Gregory & Jenny Lyn T Kappes
19.10722.524	15074 Hidden River Dr.	12/21/2001	19-17522	3	2		04		06		08		10		David A & Patricia A Klug
19.10722.508	15085 Hidden River Dr.	10/10/2003	19-18676	2	1				06		08		10		*Corwyn & Hazel Schueler
19.10722.522	15096 Hidden River Dr.	11/19/2002	19-18169	3	1			05		07		09			Kirk & Grentchen Langebehn
19.10722.506	15112 Hidden River Dr.	8/10/2005	19-19439	1	4						08		10		Mark Laudenschach
19.10722.504	15144 Hidden River Dr.	5/20/2002	19-17451	1	3			05		07		09			Ryan & Jessica Ganyo
19.10722.502	15176 Hidden River Dr.	4/3/2001	19-16793	1	2	03		05		07		09			Joseph & Jennifer Esseff
19.10722.500	15198 Hidden River Dr.	10/19/2001	19-17223	1	1		04		06		08		10		Timothy N & Wendy J Haag

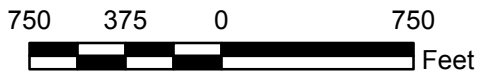
*New Oct. 2008 - Phone 320-274-0872

Figures



Breach in Berm

Aerial Photo (LMIC, 2008)



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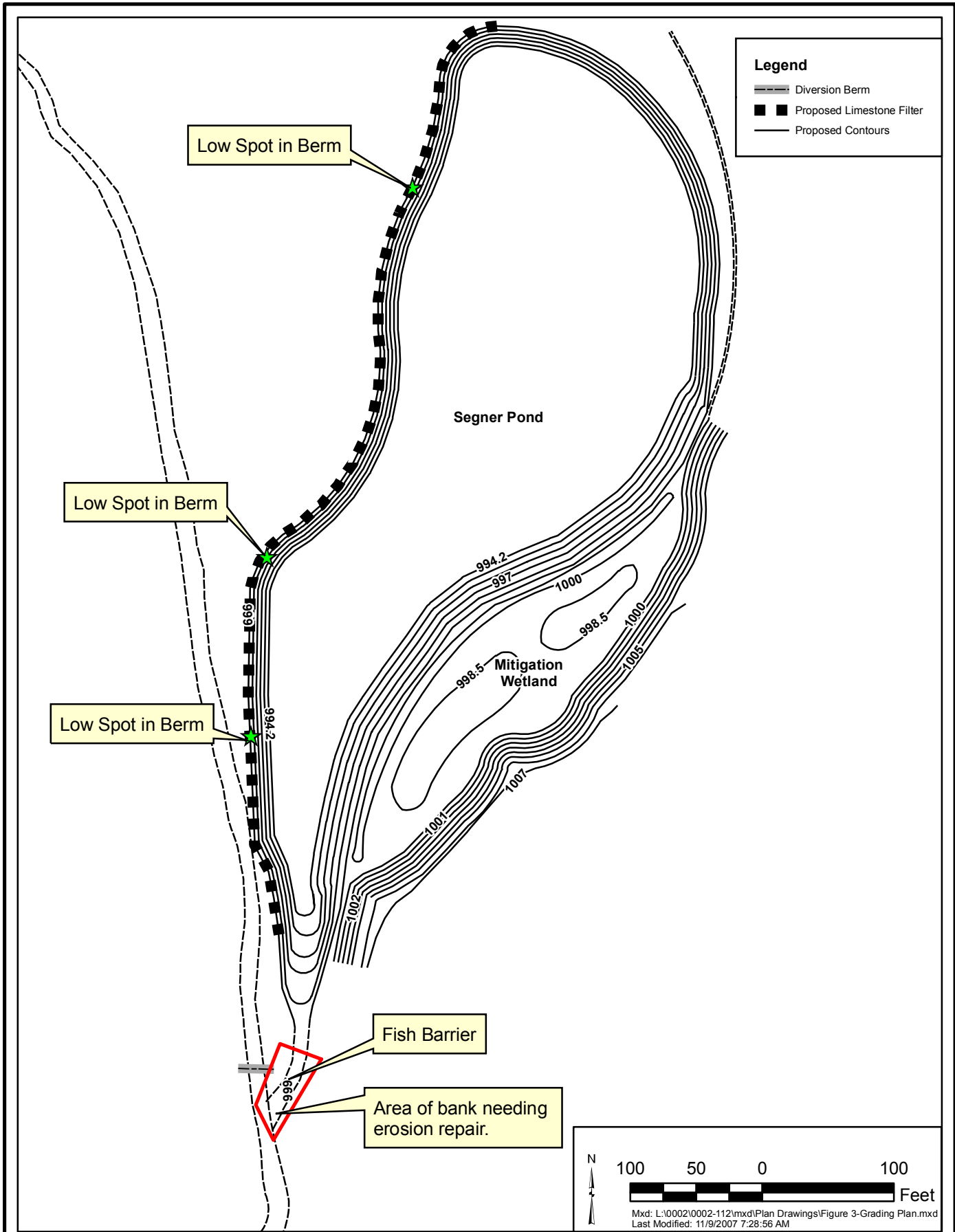
CLEARWATER RIVER WATERSHED DISTRICT

Kingston Wetland Treatment System

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 **Wenck**
Wenck Associates, Inc. 1800 Pioneer Creek Center
Environmental Engineers Maple Plain, MN 55359-0429

MAY 2010

Figure 1



Photographs



Photo 1-Watkins Wetland Overflow
Berm



Photo 2-Watkins Wetland Diversion
Structure



Photo 3-Clear Lake V-notch Weir



Photo 4-Nistler Sedimentation Basin



Photo 5-Kingston Wetland Overflow



Photo 6-Kingston Wetland Breach in Berm



Photo 7-Lake Augusta Aerator Building



Photo 8-Lake Marie Aerator Building



Photo 9-School Section Lake Outlet



Photo 10-Annandale Wetland
Diversion Structure



Photo 11-Pleasant Lake Outlet



Photo 12-Lake Augusta Sedimentation
Pond Inlet Box



Photo 13-Lake Augusta Sedimentation
Pond Riser Structure



Photo 14-Norton Ave Sediment Basin



Photo 15-Eddie Schultz Buffer



Photo 16-Henshaw Fish Barrier



Photo 17-Swartout Outlet Fish Barrier



Photo 18-Swartout Inlet Fish Barrier



Photo 19-Illsley Ave Fish Barrier



Photo 20-Segner Pond Fish Barrier



Photo 21-Segner Pond



Photo 22-Segner Pond Berm



Photo 23-Rest-a-While Sedimentation Basin



Photo 24-Rest-a-While Shores Dead Trees