## **CCLRD**

## **Camp and Center Lakes Rehabilitation District**

Dean Hintzman, Chairman Donna Wade, Secretary Charles Walker, Treasurer Dennis Faber, Commissioner, Town Of Salem Doug Hughes, Commissioner



December 1, 2012

Mr. Craig Helker DNR Water Resources Biologist Sturtevant Service Center 9531 Rayne Road, Suite 4 Sturtevant, WI 53177

Dear Mr. Helker,

The following is the information required as a condition for the Camp, Center Lake Rehabilitation District's Aquatic Harvesting Permit approved on May 31, 2012.

1. Starting and ending harvesting dates:

Starting date: June 12, 2012

Ending date: October 03, 2012

2. Map of harvesting areas:

Exhibit I:

Maps of Camp and Center Lakes identifying the harvesting areas on each lake, also see Exhibit 18 and Exhibit 20 contained in the April 18<sup>th</sup> 2012 "Aquatic Plant Management Plan for Camp and Center Lakes" outlining the approximate 150 approved harvest acres.

3. Harvester Load Summary

Exhibit II:

4.	Harvested	Tonnage	Summary
----	-----------	---------	---------

Exhibit III:

Note:

Eurasian Milfoil, Widgeon Grass and "Other Species" were the species that were tabulated. The "Other Species" harvested were Common Water Weed, Coontail, Northern Water Milfoil, Sago Pondweed, Wild Celery, and a verity of other Pondweed species however; the quantity of those species was undeterminable because they were mixed in with all the species harvested.

#### 5. Annual cost:

\$60,101.52

Note:

It is important to note that because of the severe drought in 2012 it is estimated lake levels dropped 2.5 feet therefore areas normally harvested that contain dense stands of vegetation were not accessible and is one of the reason loads harvested in 2012 were less than 2011.

Another important fact is that the plant species, Widgeon Grass, Common Water Weed, Coontail, Sago Pondweed and Wild Celery, that have replaced Eurasian Milfoil and have grown to nuisance proportions are not as dense as Eurasian Milfoil; therefore it takes longer to harvest a full load versus harvesting Eurasian Milfoil.

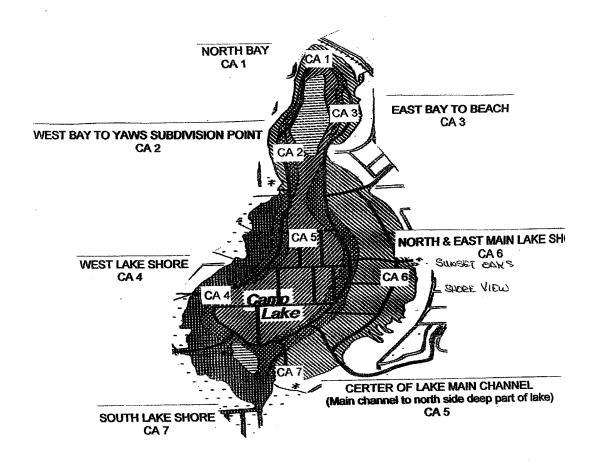
Best regards,

**Dennis Faber** 

C.C.L.R.D. Harvesting Operations Manager

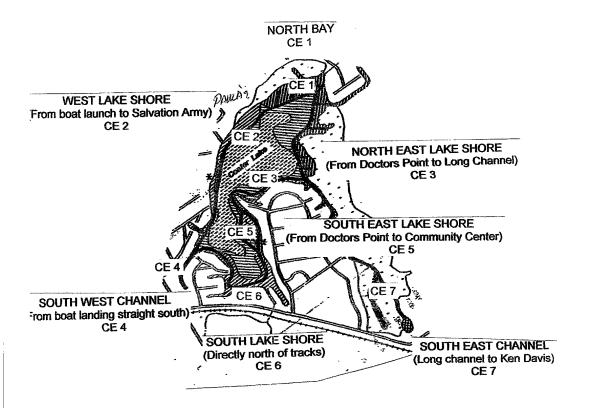
EXHIBIT I (Camp Lake)

## CAMP LAKE HARVESTING LOCATION MAP



## CENTER LAKE HARVESTING MAP

EXHIBIT I (Center Lake)



## **EXHIBIT II**

## CAMP LAKE HARVESTER LOAD SUMMARY BY AQUATIC SPECIES

Locat	ion:	CA 1	CA 2	CA 3	CA 4	CA 5	CA 6	CA 7	TOTAL
MILF	OIL:								
Year:	2002	121.4	150.1	182.2	30.6	340.6	193.6	52.6	1,071.1
	2003	105	169	133	33.4	349.6	95	42.6	927.6
	2004	3	16.8	4	6.4	27.6	44	49.6	151.4
	2005	72.6	33	15.4	55.4	503.2	64	13.6	756.4
	2006	8	16	9.5	23.6	313.8	7.2	11.6	389.8
	2007	16.4	0	2.8	4.4	615.6	10.4	2	651.6
	2008	.6	1.6	2.4	7.2	289.4	4.2	22	327.5
	2009	28.1	12	17.4	17.8	39.6	90.6	12.6	218.1
	2010	4.1	12.4	12.1	34.5	19	57.7	42	181.8
	2011	.2	1.2	.4	1.2	40.9	15	2	60.9
	2012	0	12	0	.4	26	.6	0	39
WIDG	EON GF	RASS:							
Year	2002	18.6	42.8	33.8	5.4	41.4	47.4	11.4	200.8
	2003	27.9	78	87.7	20.6	130.8	55	13.4	413.4
	2004	3	4.8	0	1.6	4.4	12.6	30.6	57
	2005	65	12	36.6	33.6	306.8	67.6	25.6	547.2
	2006	66.5	5	41.5	8.4	229.6	17.2	10	378.2
	2007	18	0	.8	.5	221.8	9.6	2	253.2
	2008	5.4	.4	1.6	6.8	262.6	6.6	15	298.2
	2009	36.4	20	30	42.8	281.6	78.8	15	504.6
	2010	14.3	7.2	19.1	47.7	6.3	41.8	78.8	215.2
	2011	.4	2.4	4	10.8	433.1	73.6	14.4	538.7
	2012	3.2	15.2	30	59.8	254.8	43.5	17	423.5

### **OTHER SPECIES:**

Year 2010	11.2	1.5	37.4	44.4	6.7	78.5	102.2	281.9
2011	1.4	4.4	3.6	2	174	67.4	15.6	268.4
2012	4.8	16	24	6.8	156	16.9	0	224.5

## CAMP LAKE TOTAL HARVESTER LOADS MILFOIL, WIDGEON GRASS & OTHER SPECIES:

Location:	CA 1	CA 2	CA 3	CA 4	CA 5	CA 6	CA 7	TOTAL
Year 2002	140	192.9	216	36	382	241	64	1,271.9
2003	132.9	247	220.7	54	480.4	150	56	1,341
2004	6	21.6	4	8	32	56.6	80.2	108.4
2005	137.4	45	52	88	810	131.6	39	1,303
2006	74.8	21	51	32	543.4	24.2	21.2	768
2007	34.4	0	3.6	5.4	837.4	40	4	904.8
2008	6	2	4	13.8	552	11	37	625.8
2009	64.4	32	47.4	60.6	321.3	169.4	27.6	722.7
2010	29.6	34.6	68.6	126.6	32	178	223	692.4
2011	2	8	8	14	648	156	32	868
2112	8	43.2	54	67	436.8	61	17	687

## CENTER LAKE HARVESTER LOAD SUMMARY BY AQUATIC SPECIES

Location:	CE 1	CE 2	CE 3	CE 4	CE 5	CE 6	CE 7	TOTAL
MILFOIL:								
Year: 2002	47.5	22.6	11.75	3.6	18.9	47.8	14.4	166.55
2003	52.9	26	26.8	21.5	16.4	46.2	10.8	200.6
2004	61.6	16.6	18.2	29.8	8.4	109.4	79.8	323.8
2005	129.8	14	8.6	10.6	26.6	39	40	268.6
2006	46.8	26	3	1.5	9.8	5.8	5.6	98.5
2007	6.5	0	0	0	3	6.4	7	22.9
2008	60.6	.8	3.6	7.5	3	7	2.8	85.2
2009	11.2	0	0	0	1.6	15.2	4.6	32.6
2010	19.9	4.8	0	1.4	0	1.2	0	27.3
2011	5.2	0	.6	0	0	0	0	5.8
2012	33.2	0	0	0	0	0	0	33.2
WIDGEON GR	ASS:							
Year: 2002	7	2.4	1.25	.4	2.1	8.2	1.6	22.45
2003	11.1	4	4.2	4.5	2.6	24.8	3.2	54.4
2004	14.4	9.4	3.8	6.2	1.6	44.6	26.2	106.2
2005	10.2	4	4.6	.4	5.4	14.10	0	38.8
2006	.2	0	0	.50	1.2	4.2	2.6	8.7
2007	7.5	0	0	0	0	10	5	22.5
2008	14.4	2.4	.4	.6	3	6	.4	27.2
2009	3	0	0	0	2.4	13.6	3.4	22.4
2010	2.9	.8	0	0	0	0	0	3.7
2011	.3	0	3.1	0	0	0	0	3.4
2012	0	0	0	0	0	0	0	0

0	ГШ	0	CI	$\sim$ 1		٠.
U	П	Λ.	J.	UI	<b>E</b> 3	Э.

Year 2010	9.9	2.4	0	.6	0	.8	0	13.7
2011	5.5	0	10.9	0	0	0	0	16.4
2012	22.8	0	0	0	0	0	14	36.8

## CENTER LAKE TOTAL HARVESTER LOADS MILFOIL, WIDGEON GRASS & OTHER SPECIES:

Year: 2002	54	25	13	4	21	56	16	189
2003	64	30	31	26	19	71	14	255
2004	76	26	22	36	10	154	106	430
2005	140	18	13.2	12	32	53.2	40	308.4
2006	47	26	3	2	11	10	8.2	107.2
2007	14	0	0	0	3	16.4	12	45.4
2008	75	3	4	8	6	13	3.2	112.2
2009	14.2	0	0	0	4	28.8	8	55
2010	32.7	8	0	2	0	2	0	44.7
2011	11	0	14.6	0	0	0	0	25.6
2012	56	0	0	0	0	0	14	70

# TOTAL CAMP, CENTER LAKE HARVESTER LOAD SUMMARY BY AQUATIC SPECIES

-	-		_	
n	/1 1	_	7	
n				

Year: 2002	1,237.65	
2003	1,128.2	<ul> <li>9% less than 2002 or 54.7 less loads than 2002</li> </ul>
2004	475.2	- 58% less than 2003 or 326.5 less loads than 2003
2005	1,025	+116% more than 2004 or 274.5 more loads than 2004
2006	488.2	<ul> <li>52% less than 2005 or 268.4 less loads than 2005</li> </ul>
2007	674.5	+ 38% more than 2006 or 93.2 more loads than 2006
2008	412.6	<ul> <li>39% less than 2007 or 131 less loads than 2007</li> </ul>
2009	250.8	<ul> <li>39% less than 2008 or 80 less loads than 2008</li> </ul>
2010	209	<ul> <li>17% less than 2009 or 41.8 less loads than 2009</li> </ul>
2011	66.7	<ul> <li>69% less than 2010 or 142.3 less loads than 2010</li> </ul>
2012	72.2	+ 8% more than 2011 or 5.5 more loads than 2011

## **WIDGEON GRASS:**

Year: 2002	223.25	
2003	467.8	+110% more than 2002 or 122 more loads than 2002
2004	163.2	<ul> <li>65% less than 2003 or 152.3 less loads than 2003</li> </ul>
2005	586	+258% more than 2004 or 211 more loads than 2004
2006	386.8	<ul> <li>34% less than 2005 or 99.6 less loads than 2005</li> </ul>
2007	275.7	<ul> <li>29% less than 2006 or 55.6 less loads than 2006</li> </ul>
2008	325.4	+ 18% more than 2007 or 24.9 more loads than 2007
2009	527	+ 62% more than 2008 or 100.8 more loads than 2008
2010	218.9	- 58% less than 2009 or 308.1 less loads than 2009
2011	542.1	+149% more than 2010 or 323.2 more than 2010
2012	423.5	<ul> <li>22% less than 2011 or 118.6 less than 2011</li> </ul>

## OTHER SPECIES:

2010	295.	
2011	285	- 3% less than 2010 or 10 less loads than 2010
2012	261.3	- 8% less than 2011 or 23.7 less loads than 2011

## TOTAL HARVESTER LOADS MILFOIL, WIDGEON GRASS & OTHER SPECIES:

Year: 2002	1,460.9	
2003	1,596	+ 9% more than 2002 or 67.6 more loads than 2002
2004	638.4	<ul> <li>60% less than 2003 or 479 less Loads than 2003</li> </ul>
2005	1,611	+152% more than 2004 or 485.6 more loads than 2004
2006	875.2	<ul> <li>46% less than 2005 or 367.9 less loads than 2005</li> </ul>
2007	950.2	+ 9% more than 2006 or 37.5 more loads than 2006
2008	738	<ul> <li>22% less than 2007 or 106 less loads than 2007</li> </ul>
2009	777.8	+ 5% more than 2008 or 19.9 more loads than 2008
2010	728.9	<ul> <li>6% less than 2009 or 54.8 less loads than 2009</li> </ul>
2011	893.5	+ 23% more than 2010 or 170.5 more loads than 2010
2012	757.0	<ul> <li>15% less than 2011 or 136.5 less loads than 2011</li> </ul>

## CAMP LAKE TONNAGE SUMMARY BY AQUATIC SPECIES

Location	n:	CA 1	CA 2	CA 3	CA 4	CA 5	CA 6	CA 7	TOTAL
MILFOI	L TON	NNAGE:							
Year: 2	2002	242.8	300.2	364.4	61.2	681.2	387.2	105.2	2,142.2
2	2003	210	338	266	66.8	699.2	190	85.2	1,855.2
2	2004	6	33.8	8	12.8	55.2	88	99.2	302.8
2	2005	145	64.2	30.8	110.8	1,006.5	127.8	27	1,512
2	2006	16	32	19	47.2	627.6	14.4	23.2	779.4
2	2007	32.8	0	5.6	8.8	1,251.2	20.8	4	1,303.2
2	2008	1.2	3.2	4.8	14.4	578.8	8.4	44	655
	2009	56.2	24	34.8	35.6	79.2	181.2	25.2	438
	2010	8.2	24.8	24.2	69	38	115.4	84	363.6
	2011	.4	2.4	.8	2.4	81.8	30	4	121.8
2	2012	0	24	0	.8	52	1.2	0	78
WIDGE	ON G	RASS TONNA	GE:						
Year: 2	2002	37.2	85.6	67.6	10.8	82.8	94.8	22.8	401.6
2	2003	55.8	156	175.4	41.2	261.6	110	26.8	826.8
2	2004	6	9.6	0	3.2	8.8	25.2	61.2	114
2	2005	130	23.8	73.2	67	613.6	135.2	51	1,093.8
2	2006	133	10	83	16.8	459.2	34.4	30	636.7
2	2007	36	0	1.6	2	443.6	19.2	4	506.4
2	2008	10.8	.8	3.2	13.6	525.2	13.2	30	596.4
2	2009	72.8	40	60	85.6	563.2	157.6	30	1,009.2
	2010	28.6	14.4	38.2	95.4	12.6	83.6	157.6	430.4
	2011	.8	4.8	8	21.6	866.2	147.2	28.8	1077.4
2	2012	6.4	30.4	60	119.6	509.6	87	34	847

OTHER SPECIE	S TONNAG	E:						
2010	22.4	3	74.8	88.8	13.4	157	204.4	563.8
2011	2.8	8.8	7.2	4	348	134.8	31.2	536.8
2012	9.6	32	48	13.6	312	33.8	0	449
CAMP LAKE TO	OTAL TONN	AGE MILFOIL	& WIDGEON	I GRASS:				
Year: 2002	280	385.8	432	72	764	482	128	2,543.8
2003	265.8	494	441.4	108	960.8	300	112	2,682
2004	12	43.2	8	16	64	113.2	160.4	416.8
2005	275	88	104	177.8	1,620.1	263	78	2,605.8
2006	149.6	42	102	64	1,086.8	48.4	42.4	1,536
2007	68.8	0	7.2	10.8	1,674.8	40	8	1,810
2008	12	4	8	28	1,104	21.6	74	1,251.4
2009	128.8	64	94.8	121.2	642.6	338.8	55.2	1,445.4
2010	59.2	42.2	137.2	253.2	64	356	446	1,357.8
2011	4	16	16	28	1,296	312	64	1,736
2012	16	86.4	108	134	873.6	122	34	1,374

## CENTER LAKE TONNAGE SUMMARY BY AQUATIC SPECIES

Location:	CE 1	CE 2	CE 3	CE 4	CE 5	CE 6	CE 7	TOTAL
MILFOIL TONN	AGE:							
Year: 2002	95	45.2	23.5	7.2	37.8	95.6	28.8	333.1
2003	105.8	52	53.6	43	32.8	92.4	21.6	401.2
2004	123.2	33.2	36.4	59.6	16.8	218.8	159.6	647.6
2005	259.4	28	17	21.2	53.2	77.8	79.8	536.4
2006	93.6	52	6	3	19.6	11.6	11.2	197
2007	13	0	0	0	6	12.8	14	45.8
2008	121.2	1.6	7.2	15	6	14	5.6	170.4
2009	22.4	0	0		3.2	30.4	9.2	65.2
2010	39.8	9.6	0	2.8	0	2.4	0	54.6
2011	10.3	0	1.2	0	0	0	0	11.5
2012	66.4	0	0	0	0	0	0	66.4
WIDGEON GRA	SS SPECIES	TONNAGE:						
Year: 2002	13	4.8	2.5	.8	4.2	16.4	3.2	44.9
2003	22.2	8	8.4	9	5.2	49.6	6.4	108.8
2004	28.8	18.8	7.6	12.4	3.2	89.2	52.4	212.4
2005	20.4	7.8	9	.8	10.8	28.2	0	77.0
2006	.4	0	0	1	2.4	8.4	5.2	17.4
2007	15	0	0	0	0	20	10	45
2008	28.8	4.8	.8	10	6	12	.8	54.4
2009	6	0	0	0	4.8	27.2	6.8	44.8
2010	5.8	1.6	0	0	0	0	0	7.4
2011	.6	0	6.2	0	0	0	0	16.4
2012	0	0	0	0	0	0	0	0

#### **OTHER SPECIES TONNAGE:**

2010	19.8	4.8	0	1.2	0	1.2	0	27
2011	11	0	21.8	0	0	0	0	32.8
2012	45.6	0	0	0	0	0	28	73.6

## CENTER LAKE TOTAL TONNAGE MILFOIL, WIDGEON GRASS & OTHER SPECIES:

<b>—</b> — —		• • —	,			J J J.		
Year: 200	2 108	50	26	8	42	112	32	378
200	3 128	60	62	52	38	142	28	510
200	4 152	52	44	72	20	308	212	860
200	5 279.8	35.8	26	22	64	106	79.8	613.4
200	6 94	52	6	4	22	20	16.4	214.4
200	7 28	0	0	0	6	32.8	24	90.8
200	8 150	6	8	16	12	26	6.4	224.4
200	9 28.4	0	0	0	8	56.8	16	110
201	0 65.4	16	0	4	0	3.6	0	89
201	1 22	0	29.2	0	0	0	0	51.2
201	2 112	0	0	0	0	0	28	140

#### **EXHIBIT III**

# TOTAL CAMP, CENTER LAKE TONNAGE SUMMARY BY AQUATIC SPECIES TONNAGE:

### **MILFOIL:**

Year: 2002	2,475.3		
2003	2,256.4	-	9% or 218.9 tons less than 2002
2004	950.4	-	58% or 1,306 tons less than 2003
2005	2,048.5	+	116% or 1,098.1tons more than 2004
2006	976.4	-	52% or 1,072.1 tons less than 2005
2007	1,349	+	38% or 372.6 tons more than 2006
2008	825.4	-	39% or 523.6 tons less than 2007
2009	501.6	-	39% or 323.8 tons less than 2008
2010	418.2	-	17% or 83.4 tons less than 2009
2011	133.4	-	69% or 285 tons less than 2010
2012	144.4	+	8% more or 11 tons more than 2011

### **WIDGEON GRASS SPECIES:**

Year: 2002	446.5	
2003	935.6	+ 110% or 489.1 tons more than 2002
2004	326.4	<ul> <li>65% or 609.2 tons less than 2003</li> </ul>
2005	1,170.8	+ 258% or 844.4 tons more than 2004
2006	773.6	<ul> <li>34% or 397.2 tons less than 2005</li> </ul>
2007	551.4	<ul> <li>29% or 222.2 tons less than 2006</li> </ul>
2008	650.8	+ 18% or 99.4 tons more than 2007
2009	1,054	+ 62% or 403.2 tons more than 2008
2010	437.8	<ul> <li>58% or 616.2 tons less than 2009</li> </ul>
2011	1,084.2	+ 149% or 646.4 tons more than 2010
2012	847	- 22% less or 237.2 tons less than 2011

## **OTHER SPECIES TONNAGE:**

2010	590.8		
2011	569.6	-	3% or 21.2 tons less than 2010
2012	522.6	-	8% or 47 tons less than 2011

## **TOTAL TONNAGE MILFOIL, WIDGEON GRASS & OTHER SPECIES:**

Year:	2002	2,921.8	
	2003	3,192	+ 9% or 270.2 tons more than 2002
	2004	1,276.8	- 60% or 1,915.2 tons less than 2003
	2005	3,219.3	+ 152% or 1,942.5 tons more than 2004
	2006	1,750.4	- 46% or 1,468.9 tons less than 2005
	2007	1,900.4	+ 9% or 150 tons more than 2006
	2008	1,476.2	<ul> <li>22% or 424.2 tons less than 2007</li> </ul>
	2009	1,555.6	+ 5% or 79.4 tons more than 2008
	2010	1,446.8	- 7% or 108.8 tons less than 2009
	2011	1,787	+ 24% or 340 tons more than 2010
	2012	1,514	<ul> <li>15% or 273 tons less than 2011</li> </ul>