AEPP-238-10

Report for Half Moon Lake District (December 2013)

3 Year AIS Inspection and Education Grant - 2010-2012

As part of a grant awarded in May of 2010, Half Moon Lake District had Environmental Sentry Protection, LLC (ESP) install an I-LIDS video inspection system on June 16, 2010 at its main boat launch at the city park. The system was powered and connected directly to a Power Over Ethernet providing DSL service and 24x7 power directly to the unit. This was augmented by paid CBCW inspections, volunteer boat launch inspectors, educational materials, and training to the lake association membership on AIS issues including education and soliciting volunteer support. This final report references other documents and describes required deliverables.

- 1) An increase of 600 hours of in-person inspections over 3 years per launch
 - a. There were 706 hours of CBCW paid inspection between 2010 and 2012 reported in the table in Attachment A. In 2013 the District paid for 814 hours of CBCW inspection. See WatercraftData-2010-2013.odf. There were 2133 boaters contacted entering the launch over 4 years 2010-2013.
- 2) An increase of 6600 hours of automated inspections over 3 years per launch
 - There were over 8000 hours of I-LIDS uptime over the course of 3 years with 16,447 videos captured.
- 3) Generation of attendance at Clean Boats/Clean Waters training by volunteers and paid inspectors
 - a. Half Moon Lake District had a consistent inspector over 4 years and members of the District attended training. Local efforts with "Weed Rangers" to identify aquatic plants was well received by a group of volunteers on the lake. See attached.
- 4) Statistical summary of data from monitoring systems to identify trends for peak usage of lakes to more effectively schedule volunteer inspectors.
 - A report was done annually showing launch activity and results of reviews of the videos.
 These have been put into separate PDF form as 2010-Half Moon Review, 2011-HalfMoon-review, 2012-HalfMoon-review.
- 5) Capture of date/time/video of daylight boat launches
 - a. Logon to http://environmentalsentry.us/lakemonitor/authmain.php user: halfmoon pw: halfmoon to see statistics for all years
- 6) Enable association monitoring of videos so all launches are reviewed.
 - a. ESP provided website access to District to review videos. ESP reviewed videos monthly with District complementing video review.
- 7) Identification of AIS violators with evidence that can be used for investigation or issuance of citation of AIS launch laws
 - a. There was one suspect violation identified and that was reported to the District and the local DNR CO who followed up with the person who was taking large quantities of water out of the lake for commercial application. They were warned to not continue that practice.
- 8) Increased awareness of AIS clean-off importance and documented cleanoffs
 - a. This was accomplished thru the use of Babe Winkleman brochure and the capturing of cleanoffs by the CBCW inspector.
- 9) Babe Winkelman educational brochure for Polk county
 - a. Working with Polk County a regional map was put onto this AIS informational takeaway

I-LIDS Captured Videos

This shows that there were more videos captured earlier in the usage of the I-LIDS. Some of this was due to sensitivity adjustments overtime, and some due to a decrease in usage at this lauch.

Launch	Category	2012	2011	2010	Total
Half Moon	Videos	2180	4945	9322	16447
Park					

Attachment A. Summary of CBCW data for 2010, 2011, 2012, and 2013 on Half Moon Lake

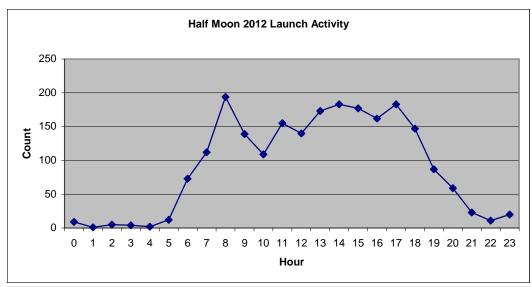
Year	Paid Hours	Entering	Leaving	cted 0	Contact ed 1-2 Times	Contact ed 3-4 Times	t Contac ted 5 Times	Past 5	Used Past 5 Days - No	Inspect and Remove Plants - Yes	2010- 2011: Inspect and Remove Plants - No	Remove Plants Animals - Yes	Remove Plants Animals - N/A	Drain Water from Boat - Yes	2010- 2011: Drain Water from Boat - No	Drain Water from Livewell - Yes	Dispos e of Bait - Yes	Took no steps	Aware of Laws - Yes		Aware of Laws - Unsure
<u>2010</u> <u>Result</u>	<u>154</u>	<u>298</u>	<u>232</u>	<u>2</u> <u>0</u>	<u>0</u>	<u>)</u> (<u>0</u> <u>0</u>	57	212	269	<u>13</u>	<u>.</u>	<u>o</u> <u>a</u>	<u>99</u>	<u> </u>	<u> </u>	<u> 69</u>	<u>0</u>	<u>499</u>	<u>7</u>	<u>0</u>
<u>2011</u> Result	<u>251</u>	<u>483</u>	<u>266</u>	<u> 6</u>	<u>0</u>	<u> </u>	<u>o</u> <u>o</u>	94	365	<u>411</u>	<u>.</u>	<u>60</u>	<u>0</u> <u>(</u>	<u>288</u>	<u>8</u> <u>6</u>	291	<u>1</u> 22	<u>e</u> <u>o</u>	<u>717</u>	<u>7</u>	<u>o</u>
<u>2012</u> <u>Result</u>	<u>301</u>	538	325	<u>5</u> <u>7</u>	<u>83</u>	3 32	<u> 8</u>	132	374	502	<u>.</u>	459	<u>9</u> <u>11</u>	<u>484</u>	<u>4</u> <u>0</u>	<u>400</u>	<u>0</u> <u>0</u>	<u>) 1</u>	<u>830</u>	<u>2</u>	<u>o</u>
<u>2013</u> <u>Result</u>	<u>800</u>	<u>814</u>	46	<u>538</u>	354	<u>1</u> 99	<u>9</u> <u>43</u>	144	877	1072	<u>.</u>	<u>1013</u>	<u>89</u>	<u>365</u>	<u> </u>	<u>370</u>	<u> </u>	<u> </u>	1252	<u>3</u>	<u>6</u>
Grand Total	<u>1506</u>	2133	<u>128</u> 2	<u> 545</u>	437	<u>7 130</u>	<u> 51</u>	427	1828	2254	<u>13</u>	<u>1532</u>	<u> 100</u>	<u>1236</u>	<u> </u>	1061	<u>97</u>	<u> 2</u>	3298	<u>19</u>	<u>6</u>

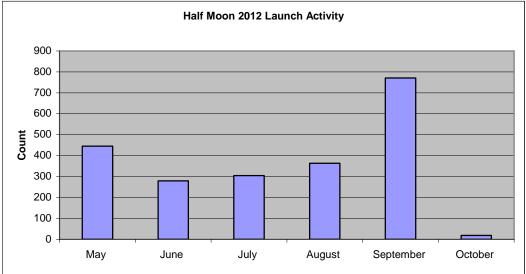
Half Moon Lake 2012 Summary

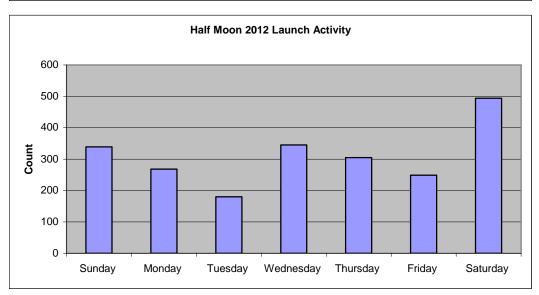
The I-LIDS was installed on 5/12/12 due to the late ice-out. It was stored on 10/2/12. There were no suspect violations identified. The District is responsible for performing the CBCW intern hiring and reporting of documentation.

Half Moon Lake 2012 Launch Activity

Sum of Cour Hour	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Grand Total
0	Junuay	9	Tuesuay	vveuriesudy	Thursday	i iluay	Saturday	9
4		9			1			1
<u> </u>								
2					5			5
3			3		1			4
4	2							2
5	1	1		5		5		12
6	9	9	6	10	7	14	18	73
7	22	13	12	16	14	19	16	112
8	34	12	48	24	14	20	42	194
9	32	12	10	23	10	22	30	139
10	23	5	14	24	15	8	20	109
11	18	22	13	22	33	16	31	155
12	20	12	7	21	32	12	36	140
13	12	30	9	28	25	18	51	173
14	29	31	13	27	19	17	47	183
15	35	17	11	23	26	18	47	177
16	24	23	7	29	24	16	39	162
17	37	20	11	34	28	17	36	183
18	15	34	9	21	19	14	35	147
19	10	7	4	24	16	11	15	87
20	1	6	2	8	10	11	21	59
21	2	5	1	4	2	6	3	23
22				2	4	5		11
23	13						7	20
Grand Total	339	268	180	345	305	249	494	2180







Month/Year: May 2011 Lake: Half-moon lake Launch: Half-moon lake

Week (e.g. 7/1/10-7/7/10)	Date Reviewed	Reviewer	Total Videos Pre- Review	Launches Counted	Notes
5/4/12-5/12/12	5/4-5/12	Iver	0	0	Out 5/4-5/12
5/13/12-5/19/12	5/12	Iver	70	10	
5/20/12-5/26/12	5/27	Iver	63	20	Out 5/25-5/27
5/27/12-6/2/12	5/30, 6/1	Iver	90	13	

Potential Violations

Date	Time	Boat Desc.	Registration/Lic.	What was seen	2nd review

Date	Time	What was seen					
5/18	7:55	Lawn mower					
5/18	10:16	Truck goes the wrong way down the launch					
5/21	16:29	Canoe is launched out of a truck					
5/21	17:49	Kid goes fishing off of dock					
6/1	6:20	Glassy lake with fog over it					
6/1	21:27	Someone launches their boat really late					
5/30	13:19	People are fishing off of the dock					
5/30	18:00	Dog runs right next to the camera					

Month/Year: June 2011 Lake: Launch:

Week (e.g. 7/1/10-7/7/10)	Date Reviewed	Reviewer	Total Videos Pre- Review	Launches Counted	Notes
6/3/12-6/9/12	6/3, 6/9, 6/6	Iver	24	10	
6/10/12-6/16/12	6/13	Iver	54	12	
6/17/12-6/23/12	6/19	Iver	49	7	
6/24/12-6/30/12	6/24, 25, 29	Iver	46	17	

Potential Violations

Date	Time	Boat Desc.	Registration/Lic.	What was seen	2nd review

Date	Time	What was seen
6/6	9:00	A truck with a mobile home launches a boat
6/6	19:03	A goose stands right inf ront of the camera
6/6	19:10	A family geese walk into he water
6/13	5:33	Fog is just leaving the lake
6/13	15:01	A man walks out of the bushes pulling up his fly
6/13	17:41	Geese are sitting on the grass at the launch
6/19	23:18	Lightning
6/19	23:30	Lightning
6/19	23:13	Lightning
6/19	23:33	Lightning
6/19	23:38	Lightning
6/24	7:05	Someone puts their hand in front of the camera
6/25	8:56	A school bus backs into the launch
6/29	5:58	Geese are at the launch
6/29	7:21	A dump truck drives into the launch
6/29	7:28	The dump truck turns around at the launch

Month/Year: July 2011 Lake: Launch:

Week (e.g. 7/1/10-7/7/10)	Date Reviewed	Reviewer	Total Videos Pre- Review	Launches Counted	Notes
7/1/12-7/7/12	7/1, 2, 6	Iver	31	9	
7/8/12-7/14/12	7/11, 12	Iver	20	6	
7/15/12-7/21/12	7/20, 7/21	Iver	112	37	
7/22/12-7/28/12	7/26	Iver	37	4	

Potential Violations

Date	Time	Boat Desc.	Registration/Lic.	What was seen	2nd review

Date	Time	What was seen
7/6	6:28	Someone leans a fishing pole on the camera
7/6	7:25	People launch a canoe from their truck
7/11	17:18	People are going fishing
7/20	20:48	A person sits on the camera
7/21	16:50	People are going fishing at the launch

Month/Year: August 2011 Lake: Launch:

Week (e.g. 7/1/10-7/7/10)	Date Reviewed	Reviewer	Total Videos Pre- Review	Launches Counted	Notes
7/29/12-8/4/12	X	Iver	0	0	Out
8/5/12-8/11/12	X	Iver	0	0	out
8/12/12-8/18/12	8/14,15,17,18	Iver	51	17	

Potential Violations

Date	Time	Boat Desc.	Registration/Lic.	What was seen	2nd review

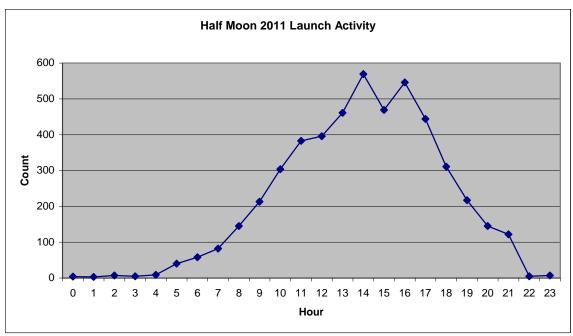
Date	Time	What was seen
8/17	7:44	A bird lands on the camera

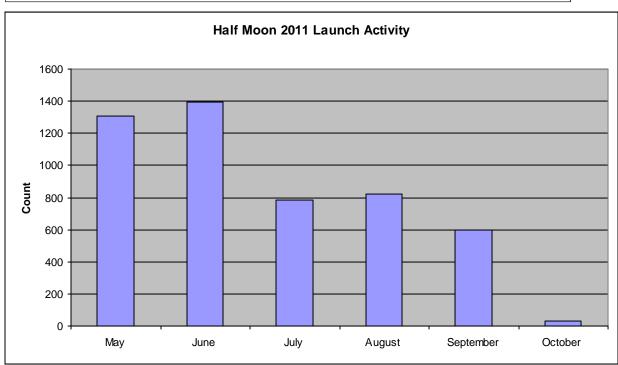
Half Moon Lake Launch Summary 2011

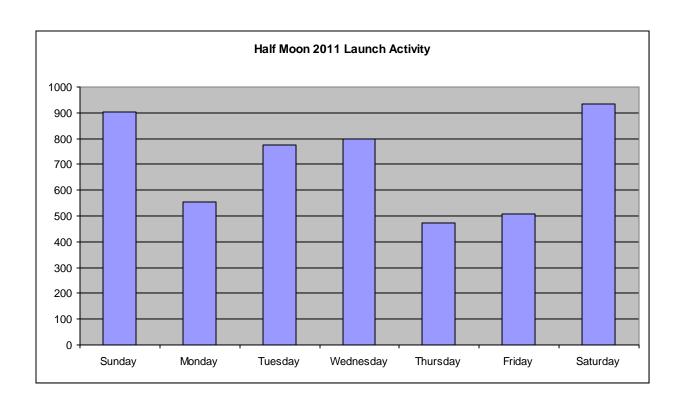
The I-LIDS was installed on 5/8/11 and uninstalled on 10/1/11. There were a total of 4945 videos captured during this time as shown in the following tables. No suspect violations were identified. The District is managing the hiring and reporting on the CBCW inspector.

2011 Half Moon Launch Activity

Sum of Count	Day							
		Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Grand Total
0			-			2	2	4
1	2					1		3
2		1		4			2	7
3				4			1	5
4							9	9
5	7	3	6	5		4		
6	5	4	7	13	8	8	13	
7	12	10	9	13	8			
8	32	19		13	11	13		
9	44	28		38	11	16		213
10	64	30	59	43	22	29		304
11	88			43	32			383
12	69			71	39			396
13	54	48			70			461
14	89			117	39			
15		61	72	79	32			
16			90	57	70			
17	92	61	72	58	32			
18				55	33			
19	52	21	39	38	18			217
20	23			27	23			
21	29	8	12	16	23	14		122
22	2						3	5
23		1	1				5	7
Grand Total	905	553	776	800	471	507	933	4945







Week (e.g. 7/1/10-7/7/10)	Date Reviewed	Reviewer	Total Videos Pre- Review	Launches Counted	Notes
05/0805/14	5/22	Jackie	210	39	Rainy and cool
05/15—05/21					(already over 200)

Potential Violations

Date	Time	Boat Desc.	Registration/Lic.	What was seen	2nd review

Date	Time	What was seen
5/10	14:20:54	Looking at the camera
5/11	17:53:43	Close up of Chickadee
5/11	20:33:55	Too close to the camera
5/14	17:59:23	Canada goose walking past the camera

Month/Year: June 2011 Lake: Half Moon Launch: Half Moon

Week (e.g. 7/1/10-7/7/10)	Date Reviewed	Reviewer	Total Videos Pre- Review	Launches Counted	Notes
06/05/11-06/07/11	6/09	Jackie	195	29	Beautiful launch

Potential Violations

Date	Time	Boat Desc.	Registration/Lic.	What was seen	2nd review

Date	Time	What was seen
6/06	11:47:13	Happy dogs
6/06	23:40:49	Deer
6/07	12:55:28	Truck backs trailer down the launch
6/07	14:27:48	Girls walks by in swim suit
6/07	21:03:15	Motorcycle rides by camera

Month/Year: July 2011 Lake: Half Moon Launch: Half

Moon

Week (e.g. 7/1/10-7/7/10)	Date Reviewed	Reviewer	Total Videos Pre- Review	Launches Counted	Notes
07/03/11-07/07/11	7/08	Jackie	58	7	there was only video from 7/5
07/08/11-07/11/11	7/12	Jackie	38	5	
07/15/11-07/17/11	7/19	Jackie	27	4	
07/22/11-07/24/11	7/25	Jackie	29	4	
07/29/11-07/31/11	8/01	Jackie	93	12	

Potential Violations

Date	Time	Boat Desc.	Registration/Lic.	What was seen	2nd review

Date	Time	What was seen
7/05	09:19:33	pontoon launch
7/05	13:05:53	trailer backing down
7/05	13:58:23	boy holds vegetation to camera
7/08	13:52:12	Weeds on trailer coming out
7/08	16:59:04	Boy sees the camera
7/15	07:50:51	Man sits on the camera
7/23	13:39:32	Boat launch
7/23	14:46:43	People with boat at the launch
7/23	15:18:58	Woman with beach bag
7/23	15:25:59	Boat coming out
7/23	18:54:36	Boy looking at the camera
7/31	09:04:24	Dog on a leash
7/31	11:40:27	Large boat backing down
7/31	13:49:05	Lots of kids
7/31	16:05:59	2 people at launch
7/31	17:12:48	Pontoon comes out

Month/Year: August 2011 Lake: Half Moon Launch: Half

Moon

Week (e.g. 7/1/10-7/7/10)	Date Reviewed	Reviewer	Total Videos Pre- Review	Launches Counted	Notes
08/03/11-08/04/11	8/09	Jackie	52	9	Nice launch
08/10/11	8/15	Jackie	67	7	"
08/14/11	8/17	Jackie	89	9	"

Potential Violations

Date	Time	Boat Desc.	Registration/Lic.	What was seen	2nd review

Date	Time	What was seen
8/03	11:36:08	Boat being pulled out
8/03	12:55:20	Toddler walks by camera
8/03	15:44:49	Jet Ski coming out
8/04	20:49:05	Boat being pulled out
8/10	09:27:42	Pontoon launch
8/10	13:38:07	Small dog (Pomeranian)
8/10	14:52:51	Beagle
8/10	20:29:20	People walking up the launch
8/14	10:18:56	Several people/ launching boat
8/14	10:58:12	Unusual boat/canoe
8/14	11:23:51	Dog in front of the camera
8/14	13:57:17	Crestliner launch
8/14	15:31:21	Man and toddler look at camera

Month/Year: September 2011 Lake: Half Moon Launch: Half

Moon

Week (e.g. 7/1/10-7/7/10)	Date Reviewed	Reviewer	Total Videos Pre- Review	Launches Counted	Notes
09/05/11	9/07	Jackie	115	9	Clean launches (Labor Day)
09/13/11-09/15/11	9/16	Jackie	54	3	
09/18/11-09/20/11	9/23	Jackie	17	1	
9/26	9/27	Jackie	14	0	

Potential Violations

Date	Time	Boat Desc.	Registration/Lic.	What was seen	2nd review

Date	Time	What was seen
9/05	07:07:41	Cold morning, can see the truck exhaust
9/05	09:31:27	Woman wearing flip flops reads the AIS sign and looks at camera
9/05	10:39:20	Man stops to read the sign by the camera
9/05	11:49:13	Boat named "Creek Chub" comes up launch with boy and fishing
		poles on board
9/05	13:17:19	Volunteer doing some monitoring on Labor Day
9/05	15:35:24	Man checks out back of pontoon for vegetation
9/05	20:44:18	Man puts face right up to the camera
9/13	12:52:39	Canada geese at the launch
9/13	13:02:29	Close up of Cana geese right next to camera feeding
9/15	15:16:13	Extremely long trailer being backed down
9/15	19:24:25	Yellow dog trots past the camera
9/20	11:29:46	Master Craft goes in the water and then out again
9/20	14:28:18	Huge contraption on the back of a truck backing down the launch
9/26	07:17:53	Big city truck driving down the launch

Month/Year: October 2011 Lake: Half Moon Launch: Half

Moon

Week (e.g. 7/1/10-7/7/10)	Date Reviewed	Reviewer	Total Videos Pre- Review	Launches Counted	Notes
10/01/11-10/08/11	10/7, 10/9	Jackie	27	3	
10/09/11-10/15/11	10/13	Jackie	39	6	

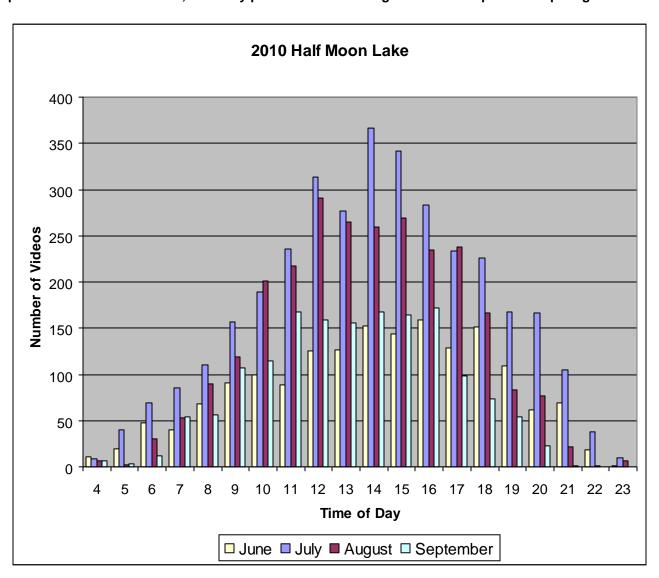
Potential Violations

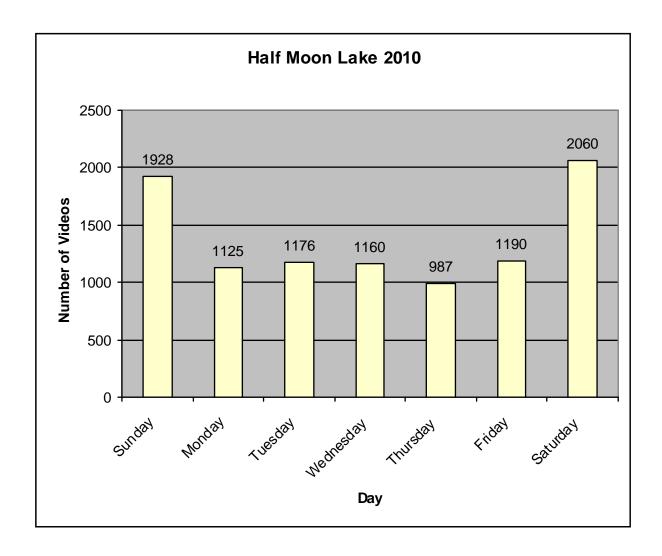
Date	Time	Boat Desc.	Registration/Lic.	What was seen	2nd review

Date	Time	What was seen
10/03	16:22:01	Man talking care of his boat after taking it out of the lake
10/03	16:53:26	Truck struggles to get boat and trailer moved around
10/04	10:31:25	Bulldozer drives down the launch
10/05	13:34:20	2 people look at the camera sign

Videos were captured from 6/16/10 (initial install) through October 4, 2010. With boaters active thru November, its probably appropriate to leave DSL connected thru end of October. Graphs below don't reflect full month of June, but can otherwise be used to schedule in-person inspections during peak times.

There were a total of 9,626 videos captured. Only one suspicious video was reported to authorities related to commercial use of the launch and spreading of some dry material. As the association performed their own review, ESP only performed monitoring of 200 videos per month per agreement.





2010 Half Moon Lake Video Review

Lake and Launch Name:	Half	Moon	Lake
-----------------------	------	------	------

Reviewer:	Jackie	Month:	July

Week	Total Videos Pre- Review	Launches Counted
7/04-7/05	285	31

Violations

Date	Time	Boat Desc.	License	Registration	What was seen

1 totable t	totable viacos (Date/Time/ vinat was seen)				
Date	Time	What was seen			
7/04	14:35:47	Aerobics for the camera			
7/04	15:10:26	HI there!			
7/05	14:48:40	Picking off weeds!			

Lake:Half Moon	Launch:	Half Moo	n Lake		_
August 2010					
Week (mm/dd/yy-mm/dd/yy)	Date Reviewed	Reviewer	Total Videos Pre- Review	Launches Counted	Notes
08/01/10-08/07/10	8/16	Jackie	201	18	Many false pos with wind
	•	*	•	*	

Violations

Date	Time	Boat Desc.	Registration/Lic.	What was seen	2nd review

Date	Time	What was seen
8/6	14:19:22	Nice boat

Lake:_Half Moon Launch: Half Moon Lake Launch

September 2010

Week (e.g. 7/1/10-7/7/10)	Date Reviewed	Reviewer	Total Videos Pre- Review	Launches Counted	Notes
09/05-09/06	09/18	Jackie	193	23	Monitoring was going on

Violations

Date	Time	Boat Desc.	Registration/Lic.	What was seen	2nd review

Date	Time	What was seen
9/05	11:49:39	Water monitoring
9/05	17:09:33	Pink polka dots





Fourth Grader Sarah Miller enjoys cataloging Half Moon Lake's weeds and is helping to keep our lake clean and healthy — by Kim Butler

We've all heard the expression "The apple doesn't fall far from the tree." A Half Moon Lake version of this adage might go something like, "A new Weed Ranger doesn't fall far from the rake"

This is truly the case of 9 year old Sarah Miller, who's already following in the footsteps of her dad, Rick Miller, a dedicated Half Moon Lake "Weed Ranger" since the program began in 2009 as part of the "Clean Boats/Clean Water" initiative. Approximately 6 lake residents volunteer to sample weeds from 5 locations around the lake several times each summer month. Sarah is probably the youngest "Weed Ranger". She and her parents Rick and Pam Miller have a cabin on Oscar Lane, and Sarah is the third generation of her family to enjoy summers on Half Moon.

This past summer, Sarah began accompanying her dad on all his weed collection trips on the lake. She showed an interest in the weed gathering, and began her own collection of lake weeds. She added, "I just thought it was fun." Sarah's elementary school in Inver Grove Heights, MN has an annual Project Fair each year, and she and her parents realized that Sarah's interest in lake weeds would make an excellent project. And so, Sarah's Half Moon Lake Weed Scrapbook began.

Sarah explained that she has 25 weeds in her book so far, and fortunately she has no bad weeds. The process is pretty easy according to Sarah, "You get a rake and catch weeds." She and her dad collect weeds from the lake early in the morning when the lake is quiet, sometimes with the help of neighbor Brian Belanger. Sarah then puts them in a cooler to keep them fresh till they get home. Then Sarah rinses off the weeds and dries and presses them between pieces of scrap granite. Once dry, the weeds are laminated and go into her scrapbook.

Her dad helps her identify them but Sarah is conversant about lake weeds herself, noting that "Water Celery looks like long grass and grows to about 6'." She thinks collecting weeds "is fun, and keeps the lake clean and healthy."

She explained that the bad weeds they don't want to find are Eurasian Milfoil and Curly Leaf Pond Weed. According to Sarah, bad weeds like these "make it not as much fun to play in the water and it costs a lot of money to get rid of them," She's right. These 2 weeds are particularly invasive, non-native species which can clog lakes and lower property values an average of 13%.

Lake Minnetonka and the Minneapolis lakes

in Minnesota have been particularly hard hit by Eurasian Water Milfoil. Closer to home, Bone, Balsam, and Deer Lakes all have evidence of Curly Leaf Pond Weed growth, which is costly to control and impossible to eradicate according to CB/CW Committee Chair Dan Leh. He also noted that some other county lakes are finding Eurasian Milfoil as well. Sarah knows that if she and her dad find either of these 2 weeds, they should contact Dan and Jeremy Williamson at the Polk County Land and Water Resources Department.

When asked what else she likes about collecting weeds, Sarah noted "It's fun, and it's quality family time. And you get to meet new people." In closing, Sarah stressed, "We need more Weed Rangers."

If you would like to be a volunteer Half Moon Lake Weed Ranger, please email Dan Leh at halfmoonlake@hotmail.com. Training is available in May 2011, and volunteers are provided with 2 weed identification books, a video, and a hat. Dan stressed that being a Weed Ranger is not a time consuming commitment, "It's something you can do as you boat — you're on the water anyway." Sampling weeds takes about half an hour a few times a month. The other part of the CL/CW initiative involves monitoring boats and educating boaters entering Half Moon Lake at the Public Beach Boat Landing.

Look for Sarah's scrapbook on the halfmoonlake.net website in the near future.



Going through the motions

Lake district uses camera to stress invasive species importance of controlling

County's Little Trade Lake and the more recent finding of EWM in Pike Lake near ery of Burasian water milfoil in Burnett Amery, the threat of EWM and other invasive species infecting more area lakes is very real

EWM, and once the pesky aquatic plant is found, the effort to eradicate it, or sim-

County's best fisheries. According to the Take Beaver Dam Lake near Cumber-Beaver Dam Lake Management District's conduct surveys on EWM, and another \$9,000 will be spent on an aquatic manstate, the township or county is forced to other invasive species can drop property values by as much as 13 percent. Fishing can also be dramatically affected as EWM land for example, which is one of Barron proposed budget for 2010, approximately \$135,000 will be spent just to control and agement plan. In some cases across the pick up the tab, making EWM just as harmful for those living off the lakeshore. For those on the lakeshore, EWM and crowds out native aquatic vegetation and reduces fish habitat, and in many instances, the quality of the entire fishery.

the busiest times of the season for boaters in Wisconsin, and the Half Moon Lake The Fourth of July weekend is one of Protection and Rehabilitation District in olk County was ready to educate boaters on the importance of removing aquatic vegetation from boat trailers 'It's really interesting to see what peobefore backing into the lake.

MILLTOWN - With last year's discov Over 430 of Wisconsin's Jakes harbon ply contain it is, well, not that simple. by Marty Seeger Leader staff writer

mitted to keeping the lake clean for future generations. Pictured (L to R): Lake district mem-The Half Moon Lake Protection and Rehabilitation District and Milltown Township are combers Rick Miller and Mike McMahon, Harlen Hegdal (Milltown town chairman), Dan Leh (treasurer), Pat McMahon (chairman), Josh Hatton (Clean Boats, Clean Waters employee) and Laurie Leh. - Photo by Marty Seeger

angler checking out the landing's newly installed motion camera recently. Prior to glancing at the camera, the angler spent a er for weeds in a staging area before couple of minutes checking his boat trailbacking into the lake.

It's difficult not to notice the camera,

try Protection, LLC.

solid stainless steel case with a solid base standing just over 2 feet and enshrined in it can trigger an audio message about importantly, records video of the boat of concrete. When you walk in front of it, removing aquatic plants, but backing in and out of the lake.

Yellow Lake, which has three, and Lake 26 and Mud Hen Lake each have one. So

> "I designed the camera five years ago to provide an ongoing preventative tool for the lake associations and districts,"

> > which is what we wanted," said lake dis-

ole do here. They're so curious about it,

launche's where they noticed obvious weeds on trailers backing into the lake, and the following year, an ordinance was adopted in Burnett County that held the boat owner liable if they were caught backing a trailer with weeds into the lake,

Since the ordinance was put in place in handed out 10 gift certificates to those Burnett County they've issued five citations to careless boaters, but have also I-LIDS are capable of reading registration who cleaned their boats off at the launch. numbers and license plates as well,

out first removing aquatic plants and ans No ordinarion in Burnett County and other counties a rose the state eventually ed to a statewide no transport law, mak ing it illegal to leave a boat launch with mals that may be attached to trailers

our lakes to Eurasian water milfoil, zebra mussels and all the other nasty critters "The goal here is to get people to kind of modify their behaviors before we lose that can take over the lake," Lindberg said, adding, "It's designed to do education and also provide a tool for enforce-

out the week. Volunteers for the Clean because they run continuously through-Hutton, a high school junior, works at the Along with the educational benefit and enforcement benefits, I-LIDS are helpful Boats, Clean Waters program generally work the busiest time of the week to edu-Half Moon landing on the weekends and cate people about invasive species. is paid by the lake association.

But volunteers and cameras aside, the real responsibilities of keeping a lake free public. Lake associations, law enforceof invasive species rest on the general ment, townships and volunteers can only do so much and it only takes a single boat or trailer to pollute a lake. Last year, in cooperation with the Milltown Township, the lake district applied for a DNR grant to help pay for half of the Internet-Landing Installed Device System, which is the first to appear on a Polk County lake. A number of lakes in Burnett County have already had I-LIDS cameras for the past four years including

It takes just a few minutes to pull off to animals from boats before leaving the the side and remove aquatic plants and

"The board is committed to keeping this lake clean," said Half Moon Lake chairman, Pat McMahon, but added, "We

computer that is monitored daily by a

or another volunteer.

positive results. Once a camera takes video, it gets immediately uploaded to a lake district member like Leh, Lindstrom

far Lindberg says the I-LIDS have had

have to be active, all of us."

BEFORE YOU ENTER OR LEAVE ANY BODY OF WATER:

- fish or animals from equipment. · Remove any visible mud, plants,
- Drain water from equipment.
- · Clean and dry anything
- equipment, etc.). water (boats, trailers, that comes into contact with
- nujess they came out of that body animals into a body of water · Never release plants, fish or

of water.

...your boat, motor, trailer and live wells. Inspect



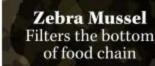
DO YOUR PART TO PREVENT THE SPREAD OF INVASIVE SPECIES!

Eurasian Watermilfoil Destroys native fish

habitats



eggs





Sentry Protection, LLC Environmental

Process of the Proces

Clean all recreational equipment. Prevent the transport of nuisance species.

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Round Goby Devours game fish

THESE RUTHLESS INVADERS ARE HARMING OUR FISHERIES!

POLK COUNTY SURFACE WATERS

