

HORSESHOE LAKE MANAGEMENT COMMITTEE AGENDA

5:00 P.M. - THURSDAY, FEBRUARY 14, 2013

Woodland Council Chambers

100 Davidson Avenue – Woodland, WA 98674



- I. Call to Order
- II. Minute Approval - January 10, 2013
- III. Continued Business
 - A. Pump Update
 - Maintenance Log
 - River Levels
 - B. Water Quality and Sampling
 - C. Decoys/Wildlife
 - D. Budget
 - E. Goals & Priorities
 - F. Public Education
 - Lake Contamination Flyer
 - G. DOE Aquatic Weeds Management Grant
 - Update
- IV. New Business
 - A. None
- V. Other
 - A. Park Board Vacancy
- VI. Adjourn - Next Meeting March 20, 2013 at 5:00 P.M.

CITY OF WOODLAND
HORSESHOE LAKE COMMITTEE MINUTES
JANUARY 10, 2013

The regular meeting of the Horseshoe Lake Management Committee was held on the above date, at the Woodland City Hall, 100 Davidson Avenue Street, Woodland, WA 98674.

Chairman Tom Golik called the meeting to order at approximately 5:00 p.m. Roll call found the following:

COMMITTEE MEMBERS:

Tom Golik, Chairman
Walt Church
Mike Curry
Terry Jones
Francis Patnode (Absent)
Pat Rychel
Jeff Sullivan
Neil Van Horn

MAYOR/COUNCIL:

Scott Perry, Councilmember

STAFF:

Jody Bartkowski, Secretary

MINUTES

The December 13, 2012 minutes were approved as corrected.

CONTINUED BUSINESS

- A. Lake Pump.** Open discussion was held regarding the pump running full time, the period of time that it was turned off in December, the valve being half-open, and possibilities for why the pump log shows 0 GPM for January 4, 2013.

Chairman Tom Golik lead a discussion regarding the letter that the Committee requested be sent to the Washington State Department of Transportation (WSDOT) regarding inadequate pumping capacity and why it had not been written and sent.

Committee Member Van Horn moved that the Horseshoe Lake Management Committee requests attendance at the next regular meeting by Grover Laseke and Bart Stepp to explain their position as to why a letter has not been sent to WSDOT informing them that the pump is not performing adequately, particularly in the summer time. Committee Member Sullivan seconded the motion. Motion carried unanimously.

Discussion ensued regarding Stacie Kelsey, Department of Fish and Wildlife (WDFW), writing a letter on the behalf of WDFW to WSDOT regarding pump performance. Discussion was held regarding WDFW's reasons for support, contents of the letter, and whether the letter would be sent ahead of time or presented at the next regular meeting on February 14, 2013.

Committee Member Sullivan made a motion that a letter from the WDFW will be presented to Mayor Laseke and Public Works Director Bart Stepp

at the next regular meeting, if they are in attendance. Motion carried 4-3.

- B. Water Quality & Sampling.** Stacie Kelsey reported that Lake testing was done the first part of January, that Lewis River testing will begin at the end of January, that the WDFW is now running phosphorous tests on all ten (10) sample sites in addition to the testing done by Addy Lab, that supplies were purchased with the remaining 2012 budget, that sampling point two (2) has been moved closer to the Lake inlet, and that graphs will be available for distribution with the February meeting packets.

Discussion was held regarding the process for phosphorous testing at the WDFW, testing processes at Silver Lake, septic systems, the possibility of testing for nitrogen in late spring, and the relocation of Silver Lake grass carp.

- C. Decoys/Wildlife.** Discussion was held regarding the type of decoys available at Cabela's, otter prints left in the snow on Sullivan's deck, grass chemicals to repel geese, and the injured goose.
- D. Budget.** Discussion ensued regarding the total amount spent in 2012, amounts requested from Cowlitz and Clark Counties in 2013, and permission for the WDFW to begin e-coli testing. WDFW requested approval to begin e-coli testing as soon as possible.
- E. Goals & Priorities.** Discussion was held regarding recent drainage improvements and options for additional improvements needed near the skate park.

Original Motion: Commission Member Walt Church moved to recommend to the City of Woodland Park Board/City that the skate board parking area be "Red Tagged", closed south of the Park Road until such time the parking area is brought up to City standards for storm water runoff to prevent further erosion and pollution of Horseshoe Lake. Mike Curry seconded the motion.

Discussion ensued regarding inadequacy of the work that was done, adoption of a new stormwater manual, and holding the City responsible for meeting their own standards.

Motion Amendment: Commission Member Walt Church moved to amend the original motion to read, "recommend to City Council, rather than City of Woodland Park Board/City". Commission member Jeff Sullivan second the motion. Motion carried unanimously.

The Committee requested that they and the WDFW be informed of the status of repairs.

Final Motion: Commission Member Walt Church moved to recommend to City Council that the skate board parking area be "Red Tagged", closed south of the Park Road until such time the parking area is brought up to City standards for storm water runoff to prevent further erosion and pollution of Horseshoe Lake. Motion seconded and carried unanimously.

Open discussion was held regarding the purpose of the Horseshoe Lake Management Committee and the passing of information from Committee to Mayor and City Council. It was determined that the City Council Representative and Secretary will work together to improve efforts to share information.

F. Public Education. Discussion ensued regarding modifications to the Horseshoe Lake flyer, vegetation hanging over the lake, adding excess in front of phosphorous in the heading, adding an explanation for Lake turnover, utilization of the flyer, and possible methods of delivery.

OTHER

- Flow Chart/Airport Valve – Ms. Kelsey distributed a flowchart showing the permitting process for allowing chemical application to vegetation. Discussion was held regarding alternate processes requiring different permitting, additional permitting due to the WDFW finding coho salmon in the Lake, electroshocking later in the year when the fish are running, potential pump updates if additional juvenile coho are found, and flow through the airport valve.

Commission Member Walt Church moved to recommend that the airport valve not be opened until water is overflowing the outlet structure. No second, motion died.

Discussion was held regarding a previous motion relating to operation of the airport valve, pump repairs, maintaining the lake at its highest possible level, and water filling the Lake structure. Stacie Kelsey is investigating who is responsible for the Lake structure.

ADJOURNMENT

The meeting was adjourned at approximately 7:15 p.m. The next regular meeting will be held Thursday, February 14, 2013, at 5:00 p.m. at the Woodland City Hall, 100 Davidson Avenue, Woodland WA 98674.

Tom Golik - Chairman

Date

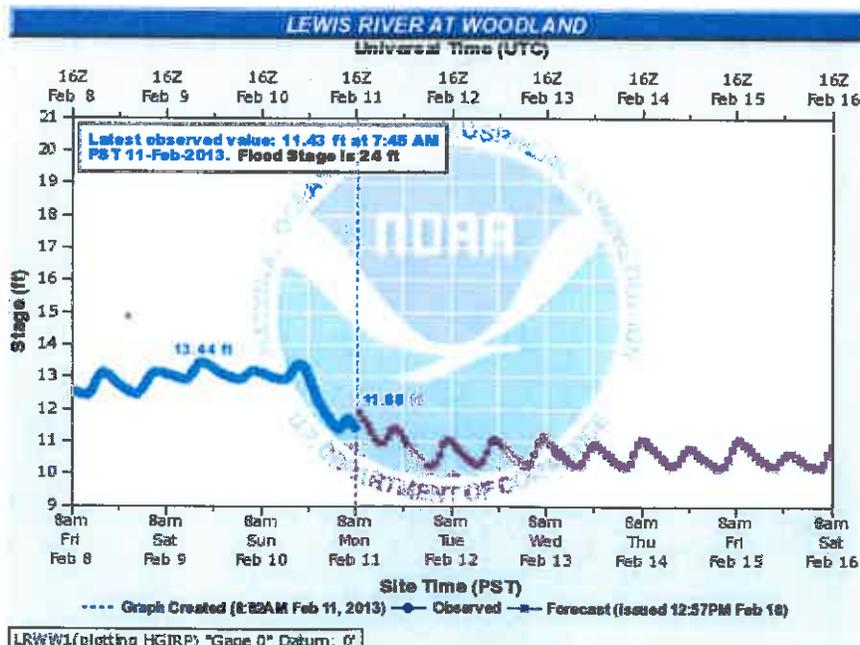
Jody Bartkowski - Secretary

Date

Lewis River Levels - As of 8:00 A.M.

1-Dec-12	14.04	1-Jan-13	11.48	1-Feb-13	11.97
2-Dec-12	14.26	2-Jan-13	11.03	2-Feb-13	13.35
3-Dec-12	14.64	3-Jan-13	11.74	3-Feb-13	13.20
4-Dec-12	14.72	4-Jan-13	11.98	4-Feb-13	12.28
5-Dec-12	15.49	5-Jan-13	12.03	5-Feb-13	10.92
6-Dec-12	15.60	6-Jan-13	11.92	6-Feb-13	10.79
7-Dec-12	15.31	7-Jan-13	11.30	7-Feb-13	12.21
8-Dec-12	15.16	8-Jan-13	12.69	8-Feb-13	12.47
9-Dec-12	14.84	9-Jan-13	13.10	9-Feb-13	12.45
10-Dec-12	14.54	10-Jan-13	12.60	10-Feb-13	12.99
11-Dec-12	14.22	11-Jan-13	13.67	11-Feb-13	11.96
12-Dec-12	13.15	12-Jan-13	13.61	12-Feb-13	
13-Dec-12	13.13	13-Jan-13	13.54	13-Feb-13	
14-Dec-12	13.22	14-Jan-13	12.02	14-Feb-13	
15-Dec-12	13.93	15-Jan-13	11.24	15-Feb-13	
16-Dec-12	13.95	16-Jan-13	11.63	16-Feb-13	
17-Dec-12	13.43	17-Jan-13	10.73	17-Feb-13	
18-Dec-12	13.64	18-Jan-13	11.76	18-Feb-13	
19-Dec-12	12.98 AVG	19-Jan-13	11.61	19-Feb-13	
20-Dec-12	12.98 AVG	20-Jan-13	11.45	20-Feb-13	
21-Dec-12	12.98 AVG	21-Jan-13	11.37	21-Feb-13	
22-Dec-12	12.98 AVG	22-Jan-13	11.35	22-Feb-13	
23-Dec-12	12.98 AVG	23-Jan-13	10.32	23-Feb-13	
24-Dec-12	12.31	24-Jan-13	9.99	24-Feb-13	
25-Dec-12	11.97	25-Jan-13	9.89	25-Feb-13	
26-Dec-12	12.13	26-Jan-13	10.32	26-Feb-13	
27-Dec-12	12.10	27-Jan-13	10.32	27-Feb-13	
28-Dec-12	11.70	28-Jan-13	10.40	28-Feb-13	
29-Dec-12	11.22	29-Jan-13	11.02		
30-Dec-12	10.92	30-Jan-13	11.48		
31-Dec-12	11.19	31-Jan-13	11.89		

National Weather Service
Advanced Hydrologic Prediction Service
water.weather.gov/ahps/



Forecasts for the Lewis River at Woodland are issued routinely year-round.

HORSESHOE LAKE NEEDS YOU!

EXCESS PHOSPHOROUS AND OTHER CONTAMINATES ADD TO DECLINING WATER QUALITY

You may not live on waterfront property, but if there is a storm drain or ditch nearby, it's just like you do. Storm drains and ditches carry runoff water directly to the lake. Whatever waters leave your property run into the water. That includes fertilizer, grass clippings, pet waste, and even septic liquids from un-maintained septic systems. All of these are sources of phosphorous and other contaminants that carry unwanted nutrients into the lake and turn it green with algae.

In late spring and early fall water temperature and density changes, allowing for what we call "lake turnover". Surface water sinks and mixes with bottom water causing the Lake to appear green. This is not an indication of pollution.

REMOVE LEAVES FROM THE STREET

- Rake leaves, seeds, and grass clippings out of the street and gutter.
- Compost on site, bag for collection, or take to waste disposal depository.
- Never dump grass or yard clippings in the lake.



PREVENT EROSION

- Phosphorous attaches to soil. Keep soil from washing into the street or lake.

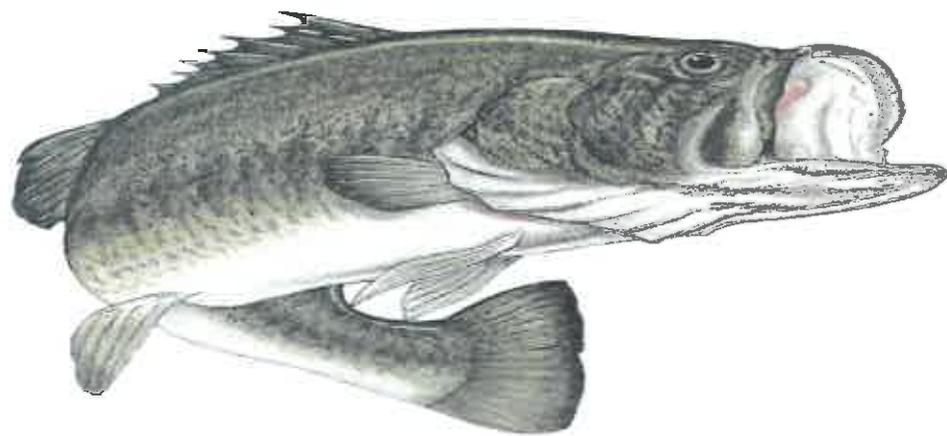
FERTILIZE THE LAWN, NOT THE LAKE

- Choose a zero-phosphorous fertilizer. The majority of Horseshoe Lake lawns are naturally high in phosphorous and will remain healthy without adding more.
- Sweep spilled fertilizer off paved surfaces.
- Remember, compost and manure contain phosphorous too.



CLEAN UP AFTER PETS

- Scoop the poop! Pet waste contains phosphorous as well as harmful bacteria.
- DO NOT feed ducks, geese, or grass carp!



WASH YOUR CAR IN DIRT GRAVEL OR GRASS

- Grass and gravel filter the dirt and soap out of the water and keep dirty runoff out of storm drains and ditches. Soap will not hurt your lawn, but it will hurt fish and water quality.
- You can make your own biodegradable car wash by mixing one cup of liquid dish washing detergent and $\frac{3}{4}$ cup of powdered laundry detergent (each should be chlorine and phosphorous free and non-petroleum based) with three gallons of water.



CHECK-FIX-MAINTAIN YOUR SEPTIC SYSTEM

- If you are on a septic system, it is imperative to have it pumped as often as necessary. Unmanaged septic systems can leak potentially dangerous substances into the lake that can affect fish, humans, and pets. If you assume your septic system is working fine because you haven't had to pump it in years, chances are it is in need of maintenance and may be seeping into the lake.
- For information on how to properly maintain your septic system, contact Cowlitz County Building and Planning at (360) 577-3052 or Clark County Public Health at (360) 397-8000. Free seminars are available on how to properly maintain your septic system.



This message provided to you by coordinating partners that include:
The City of Woodland, Cowlitz County, and Clark County.



STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY

PO Box 47600 • Olympia, WA 98504-7600 • 360-407-6000
711 for Washington Relay Service • Persons with a speech disability can call 877-833-6341

February 4, 2013

The Honorable Grover Laseke, Mayor
City of Woodland
PO Box 9
Woodland, WA 98674

RECEIVED
CITY OF WOODLAND
MSJ

**Re: Aquatic Weeds Management Fund/FY 2014 Funding Cycle
Horseshoe Lake Aquatic Monitoring Project**

Dear Mayor Laseke:

Thank you for submitting an application for the Horseshoe Lake Aquatic Monitoring Project for funding consideration from the Aquatic Weeds Management Fund (AWMF). We received more project proposals than our fund could support. Unfortunately, we are not able to fund your project at this time.

Enclosed is the AWMF Final Offer and Applicant List. This list identifies all projects submitted for funding consideration and those projects proposed for funding. A team of Ecology staff evaluated each application to identify the highest statewide aquatic plant management priorities. This year, we offered full funding to six of the ten applicants requesting funding and partial funding to two applicants.

Although we are unable to offer you funding, I commend the work you undertook to apply for funding. I also appreciate your interest in aquatic plant management. If you have any questions about the grant evaluation process or are interested in applying for AWMF funds next year, please contact Lizbeth Seebacher at 360-407-6938 or Lizbeth.Seebacher@ecy.wa.gov.

Thank you again for your interest in managing aquatic plants in Washington State.

Sincerely,

Kelly Susewind, P.E., P.G.
Water Quality Program Manager

Enclosure

cc: Bart Stepp, City of Woodland Public Works Director
Lizbeth Seebacher, Ecology





**Department of Ecology - Water Quality Program
Aquatic Weeds Management Fund
Final Offer and Applicant List – Fiscal Year 2014**

Application Number ¹	Applicant Name/Project Title	Rank	Total Funds Requested	AWMF Funds Offered	Footnote
AWMF1401	Chehalis River <i>Egeria densa</i> Control Thurston County Noxious Weed Control Board	1	\$62,257	\$62,257	
AWMF1410	Does Weed Management Benefit Fish? School of Aquatic and Fishery Sciences, UW	2	\$58,170	\$58,170	
AWMF1408	Toxicity of Herbicides to Amphibians Washington Cooperative Fish & Wildlife Research Unit	3	\$74,929	\$74,929	
AWMF1402	Lake Stevens Milfoil Control Program City of Lake Stevens	4	\$42,000	\$42,000	
AWMF1404	Heart Lake Milfoil Action Program City of Anacortes	5	\$40,875	\$40,875	
AWMF1407	Columbia River Gorge Aquatic Weed Project Skamania County Noxious Weed Control Program	6	\$15,197	\$15,197	
AWMF1409	Eloika Lake Invasive Weed Maintenance Project Spokane Conservation District and the ELA	7	\$28,125	\$25,000	1
AWMF1403	Newman Lake Eurasian Milfoil Control Project Newman Lake Flood Control Zone District	8	\$75,000	\$50,000	1

AWMF1406	Crack Willow Vegetation Management Plan Yakima County	9	\$20,000	\$0.00	
AWMF1405	Horseshoe Lake Aquatic Monitoring Project City of Woodland	10	\$29,200	\$0.00	
TOTAL FUNDS REQUESTED AND OFFERED			\$445,753	\$368,428	

Footnotes:

¹ Partial funding for control work only on non-native invasive species



**Department of Ecology - Water Quality Program
Aquatic Weeds Management Fund
Fiscal Year 2014 Project Descriptions**

Application Number	Applicant Name	Project Title	Rank	Project Summary
AWMF1401	Thurston County Noxious Weed Control Board	Chehalis River <i>Egeria densa</i> Control	1	Continue to monitor and remove <i>Egeria densa</i> from approximately 34 river miles of the Chehalis River. Since originally discovered in 1999 Brazilian elodea populations reached 35 acres in 2005. Removal has been conducted each season since with reductions of about 97% . This project will continuing the monitoring and removal of satellite infestations through the entire length of the previous infestation preventing it from dominating the habitat as it did in 2005
AWMF1410	School of Aquatic and Fishery Sciences, UW	Does Weed Management Benefit Fish?	2	This project will determine the impacts of aquatic weed invasions on sensitive fish species (with focus on Olympic mudminnow) in the Chehalis River Basin. This project will also quantify the potential for removal of invasive weeds to positively impact fish populations using generalized metrics of habitat availability and suitability
AWMF1408	Cascade Water Alliance	Toxicity of Herbicides to Amphibians 2	3	This project will determine the hazard to native amphibians exposed to aquatic herbicide tank mixes combined with the presence of predators. We will also validate our ability to extrapolate behavior of laboratory-reared frogs to wild populations.
AWMF1402	City of Lake Stevens	Lake Stevens Milfoil Control Program	4	Eurasian watermilfoil in Lake Stevens will be eradicated by diver removal and Triclopyr treatment. This is a continuation of the watermilfoil eradication program. Initial Triclopyr treatment in 2011 had a high reduction success rate. Monitoring will continue and future treatment will be provided as needed.
AWMF1404	City of Anacortes	Heart Lake Milfoil Action Program	5	We will use divers to hand pull hybrid milfoil near the boat launch and major fishing area (approx. 3 acres) and use herbicides (triclopyr and 2,4-D) on two test plots.

AWMF1407	Skamania County Noxious Weed Control Program	Columbia River Gorge Aquatic Weed Project	6	Installation of prevention signage at public boat launches along the Columbia River to prevent aquatic weed spread. Inventory of aquatic noxious weed species on 104 miles of Columbia River shoreline, with development of management plan. We will hosting a workshop to assist with project development, permitting and planning for all regional partners.
AWMF1409	Spokane Conservation District and the ELA	Eloika Lake Invasive Weed Maintenance Project	7	The Eloika Lake Invasive Weed Maintenance Project will primarily target and control Eurasian watermilfoil (EWM). The project will continue to suppress the EWM infestation and maintain a population density of less than 2% of the lake. Funding will cover the control portion of this application only.
AWMF1403	Newman Lake Flood Control Zone District	Newman Lake Eurasian Milfoil Control Project	8	Newman Lake's goal is to use hydro-acoustic studies performed by Washington State University to map and treat deeper growing, large infestations of Eurasian watermilfoil which have previously been overlooked. We will utilize a new Adopt-A Shoreline Program to raise private funds and incorporate alternative non-chemical treatments into our IAVMP. Partial funding will cover assistance with the herbicide control portion of this project only.
AWMF1406	Yakima County	Crack Willow Vegetation Management Plan	9	Develp an ecological profile and potential control/management strategies for Crack Willow (<i>Salix fragilis</i>) and Hybrid Crack Willow (<i>Salix x rubens</i>) in the Yakima Basin. This tree is a known invasive plant in other countries and states within the US, and alters stream channel, habitat, and vegetative characteristics
AWMF1405	City of Woodland	Horseshoe Lake Aquatic Monitoring Project	10	The Horseshoe Lake Aquatic Monitoring Project will conduct baseline mapping of aquatic vegetation and water quality monitoring. This data will be utilized to develop an integrated Horseshoe Lake Management Plan that identifies opportunities to improve lake functions and quality as well as develop a public outreach plan for lake education.

Jody Bartkowski

From: Wierenga, Ron [Ron.Wierenga@clark.wa.gov]
Sent: Tuesday, February 05, 2013 7:22 AM
To: Grover B. Laseke; Scott Perry; Jody Bartkowski; Bart Stepp
Cc: Mari Ripp
Subject: RE: DOE Grant Application

Bummer, but not too surprising. Thanks Grover for letting us know. If it's OK with you we will contact Ecology for feedback on the proposal. I've done this in the past and it helps identify a time down the road that may make sense for Ecology's funding support. Looking at the funded proposals it appears they're more interested in implementation than feasibility planning.

Ron Wierenga
Environmental Services
Clark County, Washington

-----Original Message-----

From: Grover B. Laseke [<mailto:LasekeG@ci.woodland.wa.us>]
Sent: Mon 2/4/2013 1:40 PM
To: PerryS@ci.woodland.wa.us; Jody Bartkowski; Bart Stepp
Cc: Mari Ripp; Wierenga, Ron
Subject: DOE Grant Application

Attached is a letter from DOE advising us we did not receive the Horseshoe Lake grant we applied for. The original is in the PW box for inclusion in the file.

Grover B. Laseke, Mayor

City of Woodland

PO Box 9 / 230 Davidson Ave

Woodland, WA 98674

360-225-8281 or 360-772-0371 (cell)

lasekeg@ci.woodland.wa.us

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