

## HORSESHOE LAKE MANAGEMENT COMMITTEE AGENDA

5:00 P.M. - THURSDAY, JANUARY 10, 2013

Woodland Council Chambers

100 Davidson Avenue – Woodland, WA 98674

- I. Call to Order
- II. Minute Approval - December 13, 2012
- III. Continued Business
  - A. Pump Update
    - Maintenance Log
    - River Levels
  - B. Water Quality and Sampling
    - December Test Results
  - C. Decoys/Wildlife
  - D. Budget
    - 2012 Testing Expenses
  - E. Goals & Priorities
  - F. Public Education
    - Lake Contamination Flyer
- IV. New Business
  - A. None
- V. Other
  - A. Park Board Vacancy
- VI. Adjourn - Next Meeting February 20, 2013 at 5:00 P.M.

**CITY OF WOODLAND  
HORSESHOE LAKE COMMITTEE MINUTES  
DECEMBER 13, 2012**

The regular meeting of the Horseshoe Lake Management Committee was held on the above date, at the Woodland Community Center, 782 Park Street, Woodland, WA 98674.

Chairman Tom Golik called the meeting to order at 5:05 p.m. Roll call found the following:

**COMMITTEE MEMBERS:**

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

**MAYOR/COUNCIL:**

Grover Laseke, Mayor  
Scott Perry, Councilmember

**STAFF:**

Jody Bartkowski, Secretary  
Bart Stepp, Public Works Director

**MINUTES**

The November 8, 2012 minutes were approved as presented.

**Mayor Laseke introduced Cowlitz County Commissioner Dan Misner.**

**CONTINUED BUSINESS**

**A. Lake Pump.** Bart Stepp reported that the pump is on and running according to guidelines (50-minutes on, 10-minutes off). Discussion ensued regarding conflicting reports from those viewing the pump, testing phosphorous levels in the river, committee concerns that pumping capacity is not adequate, what is happening with the new pump design, the need for additional pumping in summer when the river is low, turning the pump off in winter, and contacting the Washington State Department of Transportation (WSDOT).

Councilmember Perry requested that the WSDOT be notified in writing that current pumping capacity is not adequate.

**B. Water Quality & Sampling.** Staff reported that the Washington State Department of Fish & Wildlife (WDFW) completed another round of testing on December 6th and that the results will be available next week. Further testing, is planned for the first full week in January and then again 2-3 weeks later. The Public Works Department will assist with testing at the Lake Pump.

A review was conducted of the draft field manual "Horseshoe Lake Water Quality Protocols". Mayor Grover Laseke will facilitate sending to the plan to Cowlitz and Clark Counties as necessary.

Commissioner Misner was brought up to date regarding water quality testing at Horseshoe Lake and then discussed the processes being used at Silver Lake, near Castle Rock and Toutle, WA.

Committee member Walt Church requested that everyone review the Horseshoe Lake Restoration Final Report, Appendix N - Aquatic Plant Control Contingency Plan.

- C. Decoys/Wildlife.** Committee members reported that this year's flock is smaller and seems to be concentrated in the playground area rather than near the skate park.
- D. Budget.** Staff reported that the 2013 budget was approved and that Stacie Kelsey, WDFW is providing information to purchase supplies from the funds left in the 2012 budget. Grover Laseke reported that Clark County has agreed fund the portion of water quality testing costs that we requested.

Commissioner Misner spoke regarding funding for Silver Lake testing. Funds are received by the flood control district based on the number of people living on the lake. The County's solid waste tipping fee was recently increased to help fund water quality countywide. Both Silver Lake and Horseshoe Lake will benefit from this when the revenue begins coming in.

Commissioner Misner cautioned the group to "not reinvent the wheel", to look at what others had done and follow suit. To remember that there is no finish line to water quality, that it is a continuing process. He discussed how one solved problem can lead to another. Grass carp were successful in removing the vegetation from Silver Lake, but now they need to be removed due to oxygen demands.

Discussion ensued regarding the pros and cons of relocating grass carp from Silver Lake to Horseshoe Lake. Commissioner Misner recapped the process they are going through to legally remove carp from Silver Lake and urged the Committee to further discuss the idea with WDFW. He believes that it could be successful and can be coordinated.

- E. Goals & Priorities.** Discussion ensued regarding pollution control at the east end of Horseshoe Lake near the Rolling Freedom State Park.

*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.*

Walt Church discussed the process that the cemetery district went through to update their parking area and holding the City responsible for standards that are set up in their regulations.

*Commission member Mike Curry second the motion.*

Public Works Director Bart Stepp reported that he visited the site with crew Leadman Dennis Ripp and that ditching and rock work will be done on the land side of the fence. This temporary, low cost solution will not require extensive work and permitting.

Open discussion was held regarding shorelines permitting, the use of Diking District equipment, land ownership by the Department of Natural Resources (DNR), vehicles parking at the edge of the water, launching small boats/canoes in this area, the contour of the parking lot, WDFW

recommendation for the placement of pea gravel to slow down the flow of oils, etc.

Bart Stepp reported that a Community Development Block Grant application was submitted for construction of a paved trail through Horseshoe Lake Park along the water's edge. If this grant is funded it will help solve the current drainage issues.

*No quorum, no vote taken. If action is desired beyond what the Public Works Department has planned then this matter may be presented directly to City Council due to extensive work, costs, and permitting requirements.*

**Mayor Laseke and Chairman Tom Golik excused themselves from the meeting. Vice-Chair Walt Church assumed the role of Chairman.**

**F. Public Education.** Scott Perry reported that Mrs. Nelson has taken on another project and is no longer available to assist with newspaper articles. Discussion ensued regarding making her an ex-officio (non-voting member) and inviting her to attend meetings if she becomes available in the future.

Commissioner Misner presented a flyer (and will provide a digital copy) that is distributed with flood control newsletters to educate the public with methods to prevent lake pollution. This flyer would take the place of the letter that has been sent to residences surrounding the Lake.

**G. Department of Ecology (DOE) Aquatic Weeds Management Grant.** Staff reported that the grant application was submitted and that information will be passed on as it becomes available.

## **OTHER**

Other discussion included:

- Chemicals and the need for clarification of what is allowed and what is not;
- Looking into aeration;
- WDFW discouraging weed harvesting;
- Working relationships with WDFW;
- Sending an official letter to John Weinheimer at WDFW regarding relocation of Silver Lake grass carp;
- Keeping plan language open to allow for contingencies (for example, do testing 4-8 times vs. 8 times to limit problems with grants and why we are not following our proposed plans);
- Meeting jointly and working with the Silver Lake watershed group on grant applications, etc;
- Blue green algae becoming more prevalent; and
- The need to continue testing after the scope of a project ends.

**ADJOURNMENT**

The meeting was adjourned at approximately 6:45 p.m. The next regular meeting will be held Thursday, January 10, 2013, at 5:00 p.m. at the Woodland City Hall, 100 Davidson Avenue, Woodland WA 98674.

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Tom Golik - Chairman

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Date

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Jody Bartkowski - Secretary

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Date

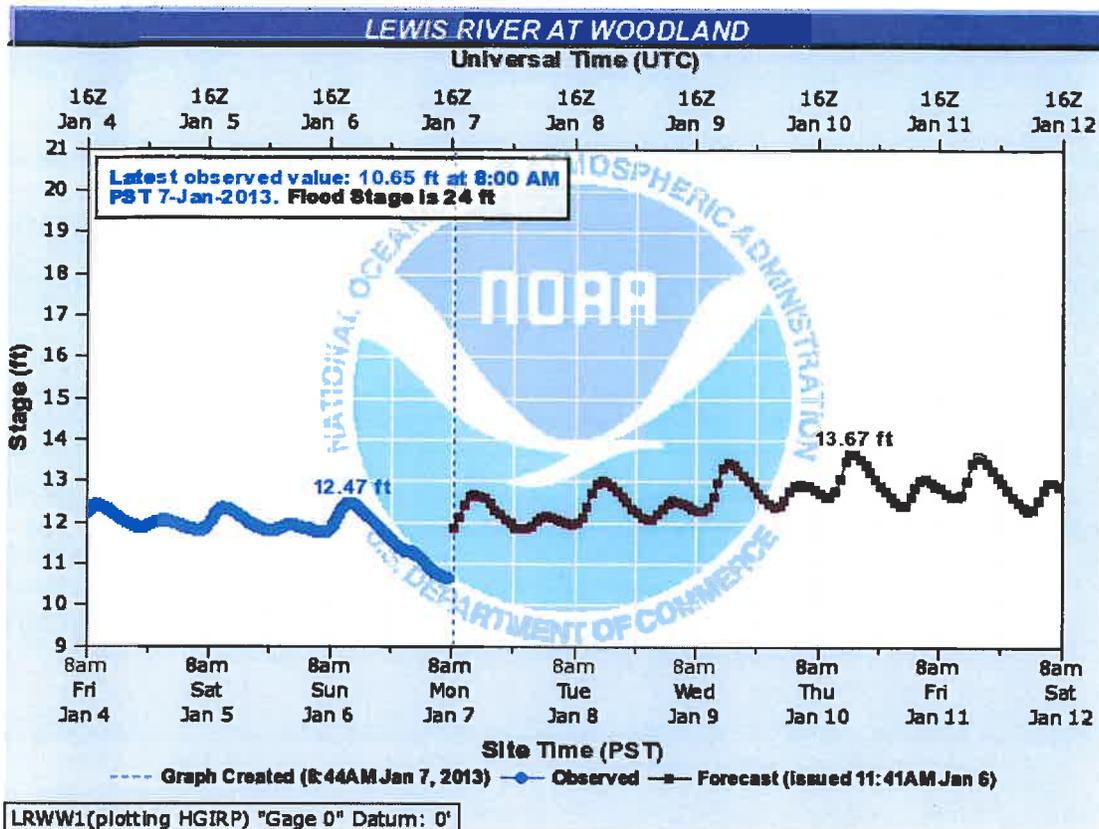
DRAFT



Lewis River Level  
As of 8:00 A.M.

1-Nov-12	13.52	1-Dec-12	14.04	1-Jan-13	11.48
2-Nov-12	13.12	2-Dec-12	14.26	2-Jan-13	11.03
3-Nov-12	12.93	3-Dec-12	14.64	3-Jan-13	11.74
4-Nov-12	12.87	4-Dec-12	14.72	4-Jan-13	11.98
5-Nov-12	11.27	5-Dec-12	15.49	5-Jan-13	12.03
6-Nov-12	10.08	6-Dec-12	15.60	6-Jan-13	11.92
7-Nov-12	8.88	7-Dec-12	15.31	7-Jan-13	11.30
8-Nov-12	10.97	8-Dec-12	15.16	8-Jan-13	
9-Nov-12	11.38	9-Dec-12	14.84	9-Jan-13	
10-Nov-12	11.33	10-Dec-12	14.54	10-Jan-13	
11-Nov-12	11.22	11-Dec-12	14.22	11-Jan-13	
12-Nov-12	11.29	12-Dec-12	13.15	12-Jan-13	
13-Nov-12	11.61	13-Dec-12	13.13	13-Jan-13	
14-Nov-12	9.63	14-Dec-12	13.22	14-Jan-13	
15-Nov-12	11.75	15-Dec-12	13.93	15-Jan-13	
16-Nov-12	13.40	16-Dec-12	13.95	16-Jan-13	
17-Nov-12	13.46	17-Dec-12	13.43	17-Jan-13	
18-Nov-12	13.67	18-Dec-12	13.64	18-Jan-13	
19-Nov-12	13.78	19-Dec-12	12.98 AVG	19-Jan-13	
20-Nov-12	15.43	20-Dec-12	12.98 AVG	20-Jan-13	
21-Nov-12	18.65	21-Dec-12	12.98 AVG	21-Jan-13	
22-Nov-12	18.28	22-Dec-12	12.98 AVG	22-Jan-13	
23-Nov-12	14.21	23-Dec-12	12.98 AVG	23-Jan-13	
24-Nov-12	14.57	24-Dec-12	12.31	24-Jan-13	
25-Nov-12	17.97	25-Dec-12	11.97	25-Jan-13	
26-Nov-12	14.08	26-Dec-12	12.13	26-Jan-13	
27-Nov-12	13.99	27-Dec-12	12.10	27-Jan-13	
28-Nov-12	13.09	28-Dec-12	11.70	28-Jan-13	
29-Nov-12	13.68	29-Dec-12	11.22	29-Jan-13	
30-Nov-12	13.87	30-Dec-12	10.92	30-Jan-13	
		31-Dec-12	11.19	31-Jan-13	

National Weather Service  
 Advanced Hydrologic Prediction Service  
[water.weather.gov/ahps/](http://water.weather.gov/ahps/)



LRWW1(plotting HGIRP) "Gage 0" Datum: 0'

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

AddyLab, LLC  
2517 E. Evergreen Blvd.  
Vancouver, WA. 98661



Phone: 360-750-0055  
Fax: 360-750-0057  
Email: reports@addylab.com

December 27, 2012

Stacie Kelsey  
Inland Fish Program  
Region 5 WDFW  
Stacie.Kelsey@dfw.wa.gov

Dear Ms. Kelsey:

Enclosed is the laboratory report for the Horseshoe Lake water samples collected 12/06/12 and analyzed for total phosphorus. All results are intended to be considered in their entirety and AddyLab, LLC is not responsible for use of less than the complete report. Results apply only to the samples submitted to the laboratory for analysis.

If you have any questions, please give me a call. The reference number for this work is 12AL1821. Thank you for your business.

Sincerely,

A handwritten signature in black ink that reads "Thomas A. Newman". The signature is written in a cursive, flowing style.

Thomas Newman  
Quality Manager



### Analytical Report

**Client:** WDFW  
**Project:** Horseshoe Lake  
**Sample Matrix:** Water  
**Report Date:** 12/27/12

**Reference #:** 12AL1821  
**Date Collected:** 12/6/12  
**Date Received:** 12/6/12  
**Collected By:** --

Sample	Lab #	Analyte	Result	Units	MRL	Date		Batch
						Method Analyzed		
Site 1	L610440-01	Total Phosphorus*	27	µg/L	3.0	EPA 365.1	12/24/12	WG629180
Site 3	L610440-02	Total Phosphorus	19	µg/L	3.0	EPA 365.1	12/19/12	WG628093
Site 4	L610440-03	Total Phosphorus	15	µg/L	3.0	EPA 365.1	12/19/12	WG628093
Site 7	L610440-04	Total Phosphorus	19	µg/L	3.0	EPA 365.1	12/19/12	WG628093
Site 9	L610440-05	Total Phosphorus	12	µg/L	3.0	EPA 365.1	12/19/12	WG628093

**Definitions:**

- \* Total Phosphorus analyzed at ESC
- µg/L microgram per liter
- MRL Method Reporting Limit
- ND Analyte Not Detected at or above the Method Detection Level
- J An estimate that is less than the MRL but greater than or equal to the Method Detection Level.
- MDL Method Detection Level – the minimum measurable concentration of a substance that can be reported with 99% confidence as being greater than zero.

Test results for pH, color, anions, except o-phosphorus, E. coli, coliform bacteria and turbidity conducted at AddyLab meet all the requirements of NELAC, unless otherwise stated in writing, and relate only to these samples. If you have questions regarding these results contact Thomas Newman, Quality Manager.

Reviewed By:                      Date: 12/28/12



YOUR LAB OF CHOICE

AddyLab, LLC  
 Tom Newman  
 2517 East Evergreen Blvd.  
 Vancouver, WA 98661

Quality Assurance Report  
 Level II

L610440

12065 Lebanon Rd.  
 Mt. Juliet, TN 37122  
 (615) 758-5858  
 1-800-767-5859  
 Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

December 24, 2012

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
Phosphorus, Total	< .003	mg/l			WG628093	12/19/12 10:54
Phosphorus, Total	< .003	mg/l			WG629180	12/24/12 09:38

Analyte	Units	Result	Duplicate Duplicate	RPD	Limit	Ref Samp	Batch
Phosphorus, Total	mg/l	0.0270	0.0270	0	20	L610440-01	WG629180

Analyte	Units	Laboratory Control Known Val	Sample Result	% Rec	Limit	Batch
Phosphorus, Total	mg/l	.04	0.0386	96.5	90-110	WG628093
Phosphorus, Total	mg/l	.04	0.0419	105.	90-110	WG629180

Analyte	Units	Laboratory Control Result	Sample Ref	Duplicate %Rec	Limit	RPD	Limit	Batch
Phosphorus, Total	mg/l	0.0370	0.0386	92.0	90-110	4.23	20	WG628093

Analyte	Units	MS Res	Matrix Spike Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Phosphorus, Total	mg/l	0.0530	0.0140	.05	78.0*	90-110	L610855-01	WG628093
Phosphorus, Total	mg/l	2.34	2.90	.05	0*	90-110	L612224-01	WG629180

Analyte	Units	MSD	Matrix Spike Ref	Duplicate %Rec	Limit	RPD	Limit	Ref Samp	Batch
Phosphorus, Total	mg/l	0.0525	0.0530	77.0*	90-110	0.948	20	L610855-01	WG628093
Phosphorus, Total	mg/l	2.34	2.34	0*	90-110	0	20	L612224-01	WG629180

Batch number /Run number / Sample number cross reference

WG628093: R2484720: L610440-02 03 04 05  
 WG629180: R2491619: L610440-01

\* \* Calculations are performed prior to rounding of reported values.  
 \* Performance of this Analyte is outside of established criteria.  
 For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

2517 E. Evergreen Blvd.  
Vancouver, WA. 98661



Phone: 360-750-0055  
Fax: 360-750-0057  
Email: info@addylab.com

12AL1821

**CHAIN OF CUSTODY REPORT**

CLIENT / SYSTEM NAME: <u>Horse shoe lake</u> REPORT TO: ADDRESS OR EMAIL <u>STACIE KELSEY</u> <u>stacie.kelsey@cdfw.wa.gov</u> PHONE: <u>360 601 1168</u> FAX:		INVOICE TO: <u>Woodland city Public Works</u> COUNTY: <u>OWALLI</u> PO NUMBER:		REF# <b>TURNAROUND REQUEST in Business Days*</b> Organic & Inorganic Analyses <input checked="" type="checkbox"/> 10 <input type="checkbox"/> 7 <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 STD. Petroleum Hydrocarbon Analyses <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 STD. <input type="checkbox"/> OTHER Please Specify *Turnaround Requests less than standard may incur Rush Charges.	
PROJECT NAME: <u>WDFW- Horse shoe lake</u> PROJECT NUMBER: <u>12AL1821</u>		REQUESTED ANALYSES			
SAMPLED BY:		TOTAL PHOSPH			
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME				
1. 1	12-6-12 10:00	✓			W
2. 3	12-6-12 10:10	✓			"
3. 4	12-6-12 10:20	✓			"
4. 7	12-6-12 10:50	✓			"
5. 9	12-6-12 11:30	✓			"
6.					
7.					
8.					
9.					
10.					

Low Level  
TPHOS

Compliance: WA OR System / PWS ID #: \_\_\_\_\_ DOH Source / Source ID #: \_\_\_\_\_ Group (WA Only): A B

Source Type: \_\_\_\_\_ Surface \_\_\_\_\_ Well / Ground Water \_\_\_\_\_ Well Field \_\_\_\_\_ Spring \_\_\_\_\_ Purchased

Sample Taken: \_\_\_\_\_ Before Treatment \_\_\_\_\_ After Treatment \_\_\_\_\_ No Treatment

RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME	TEMP: <u>AL</u>
<u>[Signature]</u>		<u>12-6-12</u>		<u>[Signature]</u>		<u>12/6/12</u>	<u>1600</u>	<u>12°C</u>
<u>[Signature]</u>	<u>AL</u>							



Be Right™

INVOICE NUMBER 8089462

DATE: 12/31/2012

Page: 1

TOTAL: \$556.68

DETACH TOP PORTION AND RETURN WITH PAYMENT TO:

Hach Company
2207 Collections Center Drive
Chicago, IL 60693
Phone: (800) 227-4224

Have you ordered online?
Order at WWW.HACH.COM

80894629 001142017 00000055668 123112

DETACH HERE

Original

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FDAAAADDDDTTDAFAADTTTADFDAAFFDAFTTTTFTDAFFFAFFAAFAAADTTTTFFFAFF

CITY OF WOODLAND
STEPP, BART
PO BOX 9
WOODLAND, WA 98674-
United States

S
H
I
P
T
O

Sort Seg: 92

CITY OF WOODLAND
STEPP, BART
300 E SCOTT AVE
WOODLAND, WA 98674-9413
United States

Table with invoice details: INVOICE NO 8089462, DATE 12/31/2012, PURCHASE ORDER NUMBER B Step 12272012111202, TERMS Paid by Visa, FREIGHT Prepay And Bill Customer, CARRIER RPS-RPS\*\*FedEx- -Ground, ACCOUNT 114201, REF. NO. 312452381-1

Remit to:

Hach Company
2207 Collections Center Dr
Chicago, IL 60693
Phone: (800) 227-4224

These commodities are sold, packaged, marked, and labeled for destinations in the United States. Exportation of these commodities may require special licensing, packaging, marking or labeling.

Main product table with columns: LN#, PRODUCT DESCRIPTION, ITEM NO., QUANTITY, UNIT PRICE, EXT. PRICE. Includes items like NITRAVER 5 PWD PLWS 5ML PK/100, NITRIVER 3 PWD PLWS 5ML PK/100, etc.

PURCHASE AND ACCEPTANCE OF PRODUCT(S) SUBJECT TO HACH COMPANY'S TERMS AND CONDITIONS OF SALE, PUBLISHED ON HACH COMPANY'S WEBSITE AT WWW.HACH.COM/TERMS

For order discrepancies or product exchanges please call 800-227-4224 or 970-669-3050 to obtain Return Authorization. E

FEDERAL TAX ID # 42-0704420



Other brands from Hach



INVOICE NUMBER 8089462

DATE: 12/31/2012

Page: 2

**ORDER CONTACT:**

BART STEPP

360-225-7999

Notes:

<b>SUBTOTAL</b>	478.93
<b>FREIGHT CHARGES</b>	37.95
<b>TAX</b>	39.80
<b>INVOICE TOTAL</b>	556.68

**Invoice has been paid. Copy for your records.**

*Addy Lab Testing = 4 x \$135 = \$540.00*

*Hach Supplies = 556.68*

\$1,096.68 2012 Expense

PURCHASE AND ACCEPTANCE OF PRODUCT(S) SUBJECT TO HACH COMPANY'S TERMS AND CONDITIONS OF SALE,  
PUBLISHED ON HACH COMPANY'S WEBSITE AT WWW.HACH.COM/TERMS

For order discrepancies or product exchanges please call 800-227-4224 or 970-669-3050 to obtain Return Authorization. E

FEDERAL TAX ID # 42-0704420



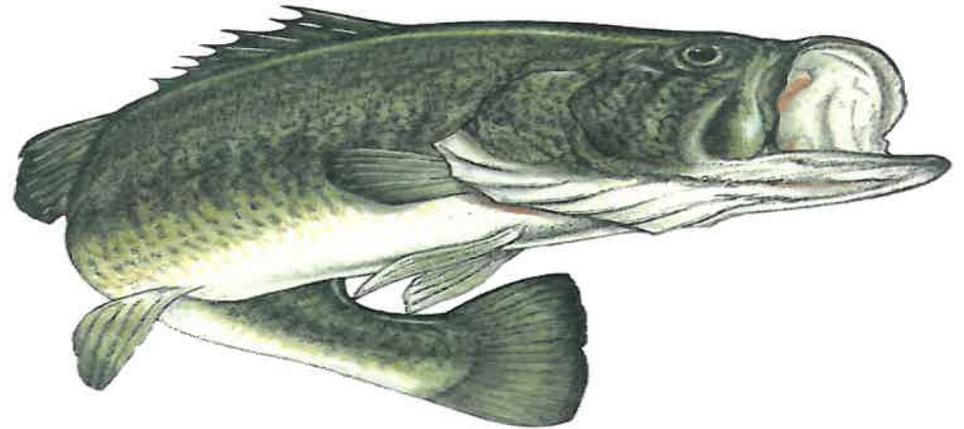
**Other brands  
from Hach**

# HORSESHOE LAKE NEEDS YOU!

## 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.

Keeping your runoff clean keeps Horseshoe Lake clean!



### 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 of 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. Don't worry, the soap won't hurt your lawn, but it will hurt the 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.

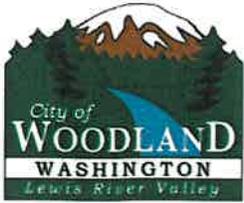


### CHECK-FIX-MAINTAIN YOUR SEPTIC SYSTEM

- 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's in need of maintenance and may be seeping into the lake.
- For information on how to properly maintain your septic system call Cowlitz County Building and Planning @ (360) 577-3052 or Clark County Public Health @ (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.*



City of Woodland  
Phone 360.225.8281  
Fax 360.225.7336

230 Davidson Avenue  
PO Box 9  
Woodland, Washington 98674

# Press Release

The City of Woodland currently has a vacancy(s) on the Parks and Recreation Board. To qualify you must reside within the city limits of the City of Woodland. Meetings are held on the 3<sup>rd</sup> Wednesday of each month at 5:00 p.m. or as necessary. Selected candidate(s) shall be appointed for terms up to 4-years in length.

Interested persons may pick up an application packet at the City of Woodland Annex, 230 Davidson Avenue or download a copy from our website [www.ci.woodland.wa.us](http://www.ci.woodland.wa.us). For questions, please call Jody Bartkowski at (360) 225-7999.

Please apply by 5:00 p.m., Thursday, January 24, 2013. Open until filled.

Publication: January 9, 2013 and January 16, 2013 – Classified Ad  
January 9, 2013 and/or January 16, 2013 – Newspaper Article