

HORSESHOE LAKE MANAGEMENT COMMITTEE AGENDA

5:00 P.M. - THURSDAY, OCTOBER 9, 2014

Woodland Police Station - Council Chambers
200 East Scott Avenue
Woodland, WA 98674

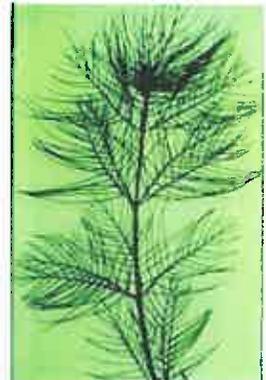
- I. Call to Order
- II. Minutes for September 11, 2014
- III. Continued Business
 - A. Goals & Priorities
 - Grant Opportunities
DOE Water Quality Grant
 - Milfoil Eradication
 - Milfoil - Damage & Reproduction
 - Carp - Budget & Purchase
 - Chemicals
 - Pollution Control
Septic Tanks & Drainage Systems
 - B. Water Quality Testing
 - Water Quality Testing Graphs
 - C. Pump & Lake Update
 - Lake/River Tracking Report
 - WSDOT Correspondence
- IV. New Business
 - A. Walt Church Resignation - Committee Vacancy
 - B. 2015 Budget
- V. Other
- VI. Adjourn - Next Meeting November 13, 2014 at 5:00 P.M.

Non-native Invasive Freshwater Plants

Eurasian Watermilfoil

General Information

Eurasian watermilfoil (*Myriophyllum spicatum*) is an attractive plant with feathery underwater foliage. It was once commonly sold as an aquarium plant. Eurasian watermilfoil, hereafter called milfoil, originates from Europe and Asia, but was introduced to North America many years ago and is now found over much of the United States. This plant was introduced to the eastern United States at least as long ago as the 1940s, but it may have arrived as early as the late 1800s. The first known herbarium specimen of milfoil in Washington was collected from Lake Meridian near Seattle in 1965. By the mid 1970s it was also found in Lake Washington. During this same time period milfoil became established in central British Columbia and traveled downstream to Lake Osoyoos and the Okanogan River in central Washington. Now milfoil is found in the Columbia, Okanogan, Snake, and Pend Oreille Rivers and in many nearby lakes. In western Washington, the distribution of milfoil closely follows the Interstate 5 corridor. It is very apparent that milfoil has been spread from lake to lake on boat trailers.



Growth Habit

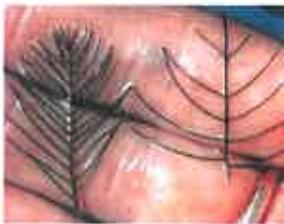
Because it is widely distributed and difficult to control, milfoil is considered to be the most problematic plant in Washington. The introduction of milfoil can drastically alter a water body's ecology. Milfoil forms very dense mats of vegetation on the surface of the water. These mats interfere with recreational activities such as swimming, fishing, water skiing, and boating. In eastern Washington milfoil interferes with power generation and irrigation by clogging water intakes. The sheer mass of plants can cause flooding and the stagnant mats can create good habitat for mosquitoes. Milfoil mats can rob oxygen from the water by preventing the wind from mixing the oxygenated surface waters to deeper water. The dense mats of vegetation can also increase the sedimentation rate by trapping sediments.

Milfoil also starts spring growth sooner than native aquatic plants and can shade out these beneficial plants. When milfoil invades new territory, typically the species diversity of aquatic plants declines. While some species of waterfowl will eat milfoil, it is not considered to be a good food source. Milfoil reproduces extremely rapidly and can infest an entire lake within two years of introduction to the system. Although milfoil produces many seeds, we do not believe that these seeds are important for milfoil reproduction in Washington waters. However, milfoil is able to reproduce very successfully and rapidly through the formation of plant fragments. In the late summer and fall the plants become brittle and naturally break apart. These fragments will float to other areas, sink, and start new plants. Milfoil will also grow from fragments created by boaters or other disturbances during any time of year. A new plant can start from a tiny piece of a milfoil plant. This is why milfoil can so easily be transported from lake to lake on boat trailers or fishing gear. Once established in its new home, water currents may carry milfoil fragments and start new colonies within the same waterbody.

Management

Once milfoil becomes well-established within a waterbody, it is difficult or impossible to remove. In smaller waterbodies (350 acres or less), we have had some success using an aquatic herbicide called Sonar® to remove milfoil and the selective herbicides 2,4-D and triclopyr-TEA show great promise in managing milfoil infestations. Other control methods include harvesting, rotovation (underwater rotobilling), installation of bottom barriers, diver hand pulling, diver dredging, and in some very limited situations the use of triploid (sterile) grass carp. We are investigating other biological controls such as the milfoil weevil. Milfoil management costs the state and private individuals up-to-one million dollars per year.

Identification



The genus is easy to identify because all milfoils have feather-like leaves arranged in whorls around the stem. Identifying individual species is much more difficult and even the plant experts rely on DNA analysis to tell some species from each other. There are several native milfoil species in Washington and some species like northern milfoil (*Myriophyllum sibiricum*) are commonly found in Washington lakes. In fact, for many years northern milfoil and Eurasian watermilfoil were classified as the same species. Currently botanists seem to be in agreement that the two are separate species, though often can look very similar. The milfoil leaflet to the right is from a northern milfoil plant. The threadlike segments are very widely separated and there are few pairs per leaflet. The Eurasian watermilfoil leaflet (left side of the photo) has many pairs of closely-spaced segments. Note also that the shape of each leaflet is different. Unfortunately not all northern and Eurasian milfoil leaflets look so differently from each other. Sometimes these two species look very similar and when that happens it is best to rely on DNA or pigment analysis for positive identification.

Here are some tips to identify Eurasian watermilfoil from the native milfoils.

- Count the pairs of leaflets. Eurasian watermilfoil usually has twelve or more pairs on each leaf.
- Eurasian watermilfoil leaves tend to collapse around the stem when removed from the water. Other milfoil species have thicker stems and are usually more robust.
- The mature leaves are typically arranged in whorls of four around the stem.
- Contact Jenifer Parsons, Ecology's botanist, at jenp351@ecy.wa.gov for positive identification.

[Follow This Link for Technical Information About Eurasian Watermilfoil](#)

Problems with this page, contact Kathy Hamel at kham461@ecy.wa.gov

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Jody Bartkowski

CARP-SCOTT WILL

From: Scott Perry [ScottPerry@CNI.Net]
Sent: Tuesday, October 07, 2014 2:54 PM
To: Jody Bartkowski
Subject: RE: HSLMC - Carp Purchase

PROVIDE ADD'L
UPDATE @ MTG
10/9/14

I spoke with the supplier and he said he would honor the \$25 for the larger carp but was not sure how many he had. He was going to check with other to see if they had larger carp. He had not gotten back to me possibly because an Eric Christenson had also called from Clark County parks looking for 300 carp for Horseshoe Lake. If Mike donated \$1,000 I know where there is another \$ 500 and I'm sure we could match his \$ 1,000 so (we can could likely Spend \$4,500 for 180 – Stacie will likely know Eric and maybe we could combine the order and get a better price for 500.

I believe he had the 300 but will try to get back to me before Thursday as to how many he can provide. It sounded like he would have the other 200, but he wanted to verify.

Scott

From: Jody Bartkowski [mailto:bartkowskij@ci.woodland.wa.us]
Sent: Tuesday, October 07, 2014 12:59 PM
To: Mike Curry (mmsoccerfan@yahoo.com); Scott Perry (scottperry@cni.net)
Subject: HSLMC - Carp Purchase
Importance: High

Hi Mike & Scott -

Sounds like we are considering cancelling Thursday night's meeting. If so then Tom wants me to send out an update email. Have you guys made any progress with the carp purchase with budget funds? What are your thoughts on meeting cancellation? We're getting down to the wire.....

~JODY

**HORSESHOE LAKE TRACKING
2014**

Date	River Level 8:00 AM	Days High Temp	Lake			Valve Status (Turns Open)	Pump (GPM)	Comments
			Level	Temp	Visibility			
1-Sep-14		81°				Closed		River gauge down.
2-Sep-14		74°	-17	75°	7.6"	Closed	99	River gauge down.
3-Sep-14		74°				Closed		River gauge down.
4-Sep-14	8.70	82°				Closed	101	Cleaned screens; left side stuck open 3-4'.
5-Sep-14	8.41	91°				Closed	0	
6-Sep-14	8.31	96°				Closed		
7-Sep-14	7.98	85°				Closed		
8-Sep-14	7.39	74°				Closed		Level projected.
9-Sep-14	7.37	78°				Closed		7.33 lowest at 10:00 AM.
10-Sep-14	7.39	76°				Closed		
11-Sep-14	7.54	77°	-24	71°	7'	Closed		
12-Sep-14	7.50	83°				Closed	2,600	
13-Sep-14	7.72	89°				Closed		
14-Sep-14	8.01	90°				Closed		
15-Sep-14	8.19	94°				Closed		
16-Sep-14	8.28	76°				Closed		
17-Sep-14	8.71	76°				Closed		
18-Sep-14	8.76	73°				Closed		
19-Sep-14	8.23	81°				Closed		
20-Sep-14	7.84	91°	-33	71°	6'6"	Closed		
21-Sep-14	7.36	86°				Closed		
22-Sep-14	7.34	73°				Closed	0	
23-Sep-14	7.34	68°	-33	71°	6'6"	Closed		Last year level was -22".
24-Sep-14	7.50	66°				Closed		
25-Sep-14	7.52	69°				Closed		
26-Sep-14	7.60	69°				Closed	2,790	
27-Sep-14	7.62	71°	-33	68°	6'6"	Closed		Fall Fest weekend; excessive weed damage!
28-Sep-14		73°				Closed		
29-Sep-14		60°				Closed	2,734	
30-Sep-14		68°				Closed		Good weeds at Bill's shredded by Duck boat.

**HORSESHOE LAKE TRACKING
2014**

Date	River Level 8:00 AM	Days High Temp	Lake			Valve Status (Turns Open)	Pump (GPM)	Comments
			Level	Temp	Visibility			
1-Oct-14		69°				Closed		
2-Oct-14		71°				Closed		
3-Oct-14		80°				Closed		
4-Oct-14	8.38	84°				Closed		
5-Oct-14	8.16	81°	-36	64°	6'6"	Closed		Water is murky, level going down, down....
6-Oct-14	7.52	82°				Closed		
7-Oct-14	7.28	81°				Closed		
8-Oct-14	7.43					Closed		Level projected.
9-Oct-14	7.20					Closed		Level projected.
10-Oct-14	7.31					Closed		Level projected.
11-Oct-14	7.62					Closed		Level projected.
12-Oct-14	7.89							Level projected.
13-Oct-14	7.78							Level projected.
14-Oct-14								
15-Oct-14								

Jody Bartkowski

From: Bart Stepp
Sent: Monday, September 29, 2014 4:35 PM
To: Ficco, Doug
Cc: Grover Laseke; Wagner, Don; Jody Bartkowski; Bill Eling; Swensen, Darla; Hancock, Chad
Subject: RE: Woodland's Horseshoe Lake

Doug,

Thanks for the reply.

Bart Stepp, PE
City of Woodland
Public Works Director
PO Box 9; 300 E. Scott Ave.
Woodland, WA 98674
(360) 225-7999
(360) 225-7467 (fax)
"Serving Community Needs Day and Night"

From: Ficco, Doug [<mailto:FiccoD@wsdot.wa.gov>]
Sent: Friday, September 26, 2014 9:19 AM
To: Bart Stepp
Cc: Grover Laseke; Wagner, Don; Jody Bartkowski; Bill Eling; Swensen, Darla; Hancock, Chad
Subject: RE: Woodland's Horseshoe Lake

Bart,

Don Wagner is out of the office for the next two weeks and asked me to respond to your email.

The letter dated June 8th, 2011 states that the pump will be repaired or the entire unit will be replaced. In June 2011, we believed that replacement was the best option. Upon further investigation, it was determined by our pump consultant Flowserve that the pump would function more efficiently with some modifications and repair rather than a full replacement and still meet the demand. In April 2012, WSDOT worked with Flowserve to make some improvements that proved to be effective. It was verified that the pump was moving water as designed. This information was communicated both in writing to the Mayor of Woodland and during a City Council meeting presentation by WSDOT staff that same month. Our recent inspection of the pump indicates that it is still operating as designed. Because it is performing as intended, WSDOT is no longer pursuing a replacement pump.

The permit from Fish and Wildlife was issued with the understanding that WSDOT would pursue the replacement of the screens. Any new screen design would require the reconstruction of the structure itself. At this time, WSDOT is working on procuring a consultant that will provide a design that meets all environmental requirements. Until we get a design from the consultant, we do not have a timeline for constructing the screens. It is our intent to have new screens in place prior to the permit expiration date in July 2016.

If you have any questions feel free to contact me.

Doug Ficco
ARA Maintenance and Operations
360.905.2020

From: "Bart Stepp" <SteppB@ci.woodland.wa.us>
To: "Wagner, Don" <WagnerD@wsdot.wa.gov>
Cc: "Grover Laseke" <>, "Woodland Public Works: Bartkowski" <BartkowskiJ@ci.woodland.wa.us>, "Bill Eling" <elinglaw@aol.com>
Subject: Woodland's Horseshoe Lake

Mr. Wagner,

In June of 2011 the City received a letter (attached) stating WSDOT would replace the pump that currently pumps water from the Lewis River into Horseshoe Lake in addition to some other improvements. To facilitate that work Fish and Wildlife issued a HPA permit (attached) on July 12, 2011 that expires on July 11, 2016. To date none of the work in the June 8, 2011 work has been completed.

It is my understanding that Fish and Wildlife issued the HPA permit to allow time to fix the screens to protect fish and if the screens were not corrected by July 11, 2016 they would shut the pump down. A shutdown of the pump would cause significant harm to the lake and break the 11/12/97 agreement (attached) between WSDOT and the City that WSDOT would maintain the pump.

If you could provide me with an update on when you think the improvements outlined in the June of 2011 letter will be completed I would appreciate it.

Sincerely,

Bart Stepp, PE
City of Woodland
Public Works Director
PO Box 9; 300 E. Scott Ave.
Woodland, WA 98674
(360) 225-7999
(360) 225-7467 (fax)
"Serving Community Needs Day and Night"



**Washington State
Department of Transportation**

Paula J. Hammond, P.E.
Secretary of Transportation

Transportation Building
310 Maple Park Avenue S.E.
P.O. Box 47300
Olympia, WA 98504-7300

360-705-7000
TTY: 1-800-833-6388
www.wednet.edu

RECEIVED

JUN 22 2011

CITY OF WOODLAND

June 8, 2011

The Honorable Charles E. Blum
Mayor of Woodland
PO Box 9
Woodland, WA 98674

Subject: Horseshoe Lake Water Quality

Dear Mayor Blum:

WSDOT received your letter to Governor Gregoire dated May 18, 2011, regarding Horseshoe Lake and the Lewis River pump. We are aware of the problem, and have been working with various pump suppliers in an effort to either maximize the output of the existing pump, or replace the entire unit. It has been determined that replacement is the best option at this time.

We appreciate your offer of a loan, but as the following information reflects, we will be able to replace the pump with funds in our 2011-2013 budget.

We have met on site with various agencies in an effort to get the permitting process started. The Lewis River is a fish bearing water so we are regulated by RCW 77.57.070. The Washington Department of Fish and Wildlife (WDFW) requires us to apply for and obtain an individual Hydraulic Project Approval (HPA) prior to starting any work on the pump. After our discussion, the earliest we can obtain the permit is mid-July. WDFW also requires that we complete all work at a certain time of year to minimize the impact on the fish. The work window is August 1- 15.

There are several other maintenance items or deficiencies that need to be addressed. These items include but are not limited to:

- Rebuilding the screens to protect the fish: This work requires redesign and construction of new screens and a Shoreline Permit from Clark County.
- Dredging around the sump: This work includes removing silt around the intake of the structure. It will require a Water Quality permit from the Department of Ecology (DOE), a Biological Assessment (BA) and formal consultation with the National Oceanic and Atmospheric Administration (NOAA).
- Extending the standpipe: Lowering the standpipe will ensure that we can pump enough water even with the lower river levels in the summer.

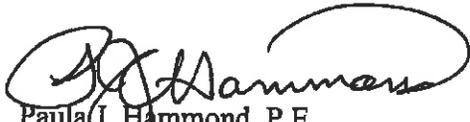
Mayor Charles E. Blum
June 8, 2011
Page 2

- Constructing a fish exclusion zone: This requires the design and construction of a new structure that will keep smaller fish away from the strong suction of the pump intake.

Some of these permits and approvals could take up to nine months to obtain. If we are required to construct these improvements as part of the pump replacement project, we may not be able to install the new pump before the work window closes on August 15, 2011, and may default into 2012. We will continue working with the proper authorities at WDFW, Clark County and the Army Corp of Engineers to expedite the process and get the pump replaced as soon as possible. If you would like to discuss further, please contact the Southwest Region Administrator, Don Wagner, at 360-905-2001.

Thanks for your understanding and patience.

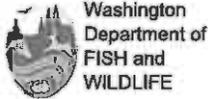
Sincerely,



Paula J. Hammond, P.E.
Secretary of Transportation

PJH:jaa

cc: J.C. Lenzi, Chief Engineer
Don Wagner, Southwest Region Administrator
Woodland Public Works Council



HYDRAULIC PROJECT APPROVAL

RCW 77.55.021 - See appeal process at end of HPA

Southwest
2108 Grand Boulevard
Vancouver, WA 98661
(360) 696-6211

Issue Date: July 12, 2011

Control Number: 124266-1

Project Expiration Date: July 11, 2016

FPA/Public Notice #: N/A

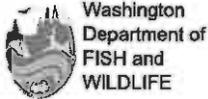
<u>PERMITTEE</u>	<u>AUTHORIZED AGENT OR CONTRACTOR</u>
Washington Department of Transportation ATTENTION: Barb Aberle PO Box 1709 Vancouver, WA 98668-1709 360-905-2186 Fax: 360-905-2218	

Project Name: Horseshoe Lake Water Intake Pump Maintenance

Project Description: Pump maintenance: regular inspection and any necessary repairs.

PROVISIONS

1. The project may begin JULY 12, 2011 and shall be completed by JULY 11, 2016.
2. NOTIFICATION REQUIREMENT: The Area Habitat Biologist (AHB) listed below shall receive written notification (email, FAX or mail) from the person to whom this Hydraulic Project Approval (HPA) is issued (permittee) or the agent/contractor no less than three working days prior to the start of construction activities. The notification shall include the permittee's name, project location, starting date for work, and the control number for this HPA.
3. Work shall be accomplished per plans and specifications approved by the Washington Department of Fish and Wildlife entitled "JARPA - HORSESHOE LAKE WATER INTAKE PUMP MAINTENANCE" and dated 07/12/2011, except as modified by this Hydraulic Project Approval. A copy of these plans shall be available on site during construction.
4. If at any time, as a result of project activities, fish are observed in distress, a fish kill occurs, or water quality problems develop (including equipment leaks or spills), immediate notification shall be made to the Washington Military Department's Emergency Management Division at 1-800-258-5990, and to the Area Habitat Biologist listed below.
5. Every effort shall be taken during all phases of this project to ensure that sediment-laden water is not allowed to enter the stream. This may be accomplished by placing a series of low gravel bag dams downstream of the project. The gravel bag dams shall consist of burlap bags filled with pea gravel. The streambed and dams shall be overlain with filter fabric on the upstream side of the dams. Accumulated silt shall be removed with the filter fabric upon completion of the project and the burlap bags shall be slit to allow the pea gravel to disperse downstream. Where necessary, hand tools may be used to ensure stream flow and fish passage are not impeded by the gravel.
6. All waste material such as construction debris, silt, excess dirt or overburden resulting from this project shall be deposited above the limits of flood water in an approved upland disposal site.



HYDRAULIC PROJECT APPROVAL

RCW 77.55.021 - See appeal process at end of HPA

Southwest
2108 Grand Boulevard
Vancouver, WA 98661
(360) 696-6211

Issue Date: July 12, 2011

Control Number: 124266-1

Project Expiration Date: July 11, 2016

FPA/Public Notice #: N/A

7. If high flow conditions that may cause siltation are encountered during this project, work shall stop until the flow subsides.

8. Extreme care shall be taken to ensure that no petroleum products, hydraulic fluid, fresh cement, sediments, sediment-laden water, chemicals, or any other toxic or deleterious materials are allowed to enter or leach into the stream.

PROJECT LOCATIONS

Location #1 Woodland Airport off I-5 Exit 21

WORK START: July 12, 2011				WORK END: July 11, 2016		
WRIA: 27.0168		Waterbody: Lewis River		Tributary to: Columbia River		
1/4 SEC: NW 1/4	Section: 39	Township: 05 N	Range: 01 E	Latitude: N 45.9001	Longitude: W 122.7391	County: Clark
Location #1 Driving Directions						
Exit 21 off I-5 at the city of Woodland and heading east and then south onto the airport.						

APPLY TO ALL HYDRAULIC PROJECT APPROVALS

This Hydraulic Project Approval pertains only to those requirements of the Washington State Hydraulic Code, specifically Chapter 77.55 RCW (formerly RCW 77.20). Additional authorization from other public agencies may be necessary for this project. The person(s) to whom this Hydraulic Project Approval is issued is responsible for applying for and obtaining any additional authorization from other public agencies (local, state and/or federal) that may be necessary for this project.

This Hydraulic Project Approval shall be available on the job site at all times and all its provisions followed by the person(s) to whom this Hydraulic Project Approval is issued and operator(s) performing the work.

This Hydraulic Project Approval does not authorize trespass.

The person(s) to whom this Hydraulic Project Approval is issued and operator(s) performing the work may be held liable for any loss or damage to fish life or fish habitat that results from failure to comply with the provisions of this Hydraulic Project Approval.

Failure to comply with the provisions of this Hydraulic Project Approval could result in a civil penalty of up to one hundred dollars per day and/or a gross misdemeanor charge, possibly punishable by fine and/or imprisonment.

All Hydraulic Project Approvals issued under RCW 77.55.021 are subject to additional restrictions, conditions, or revocation if the Department of Fish and Wildlife determines that changed conditions require such action. The person(s) to whom this Hydraulic Project Approval is issued has the right to appeal those decisions. Procedures for filing appeals are listed below.



HYDRAULIC PROJECT APPROVAL

RCW 77.55.021 - See appeal process at end of HPA

Southwest
2108 Grand Boulevard
Vancouver, WA 98661
(360) 696-6211

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Control Number: 124266-1

Project Expiration Date: July 11, 2016

FPA/Public Notice #: N/A

Requests for any change to an unexpired HPA must be made in writing. Requests for new HPAs must be made by submitting a new complete application. Send your requests to the department by: mail to the Washington Department of Fish and Wildlife, Habitat Program, 600 Capitol Way North, Olympia, Washington 98501-1091; e-mail to HPAapplications@dfw.wa.gov; fax to (360) 902-2946; or hand-delivery to the Natural Resources Building, 1111 Washington St SE, Habitat Program, Fifth floor.

APPEALS INFORMATION

If you wish to appeal the issuance, denial, conditioning, or modification of a Hydraulic Project Approval (HPA), Washington Department of Fish and Wildlife (WDFW) recommends that you first contact the department employee who issued or denied the HPA to discuss your concerns. Such a discussion may resolve your concerns without the need for further appeal action. If you proceed with an appeal, you may request an informal or formal appeal. WDFW encourages you to take advantage of the informal appeal process before initiating a formal appeal. The informal appeal process includes a review by department management of the HPA or denial and often resolves issues faster and with less legal complexity than the formal appeal process. If the informal appeal process does not resolve your concerns, you may advance your appeal to the formal process. You may contact the HPA Appeals Coordinator at (360) 902-2260 for more information.

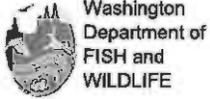
A. INFORMAL APPEALS: WAC 220-110-340 is the rule describing how to request an informal appeal of WDFW actions taken under Chapter 77.55 RCW. Please refer to that rule for complete informal appeal procedures. The following information summarizes that rule.

A person who is aggrieved by the issuance, denial, conditioning, or modification of an HPA may request an informal appeal of that action. You must send your request to WDFW by mail to the Washington Department of Fish and Wildlife HPA Appeals Coordinator, 600 Capitol Way North, Olympia, Washington 98501-1091; e-mail to HPAapplications@dfw.wa.gov; fax to (360) 902-2946; or hand-delivery to the Natural Resources Building, 1111 Washington St SE, Habitat Program, Fifth floor. WDFW must receive your request within 30 days from the date you receive notice of the decision. If you agree, and you applied for the HPA, resolution of the appeal may be facilitated through an informal conference with the WDFW employee responsible for the decision and a supervisor. If a resolution is not reached through the informal conference, or you are not the person who applied for the HPA, the HPA Appeals Coordinator or designee will conduct an informal hearing and recommend a decision to the Director or designee. If you are not satisfied with the results of the informal appeal, you may file a request for a formal appeal.

B. FORMAL APPEALS: WAC 220-110-350 is the rule describing how to request a formal appeal of WDFW actions taken under Chapter 77.55 RCW. Please refer to that rule for complete formal appeal procedures. The following information summarizes that rule.

A person who is aggrieved by the issuance, denial, conditioning, or modification of an HPA may request a formal appeal of that action. You must send your request for a formal appeal to the clerk of the Pollution Control Hearings Boards and serve a copy on WDFW within 30 days from the date you receive notice of the decision. You may serve WDFW by mail to the Washington Department of Fish and Wildlife HPA Appeals Coordinator, 600 Capitol Way North, Olympia, Washington 98501-1091; e-mail to HPAapplications@dfw.wa.gov; fax to (360) 902-2946; or hand-delivery to the Natural Resources Building, 1111 Washington St SE, Habitat Program, Fifth floor. The time period for requesting a formal appeal is suspended during consideration of a timely informal appeal. If there has been an informal appeal, you may request a formal appeal within 30 days from the date you receive the Director's or designee's written decision in response to the informal appeal.

C. FAILURE TO APPEAL WITHIN THE REQUIRED TIME PERIODS: If there is no timely request for an appeal, the WDFW action shall be final and unappealable.



HYDRAULIC PROJECT APPROVAL

RCW 77.55.021 - See appeal process at end of HPA

Southwest
2108 Grand Boulevard
Vancouver, WA 98661
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ENFORCEMENT: Sergeant Holden (36) P3

Habitat Biologist Anne Friesz	friesarf@dfw.wa.gov 360-906-6764		for Director WDFW
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CC: WRIA file, Olympia
WECY, Ochoa (emailed)
USACE, Manlow (emailed)
City of Woodland (emailed)
Cowlitz Indian Tribe, Skalacory (emailed)

EXHIBIT "C"

Letter of Understanding

This letter of understanding outlines the duties that each party will undertake in the maintenance and inspection of the Woodland Horseshoe Lake pumping station on the Lewis River. The parties are the Department of Transportation, hereinafter called the "STATE", and the City of Woodland, PO Box 9, Woodland, Washington, 98674, hereinafter called the "CITY".

BACKGROUND: The City has secured a grant from the Department of Ecology for the improvement of the water quality in Horseshoe Lake and the STATE has agreed to provide a pump for increasing the water circulation to the lake. In this agreement we will only be discussing duties. Any and all costs related to these duties will at the parties' own expense.

STATE duties:

- 1) Biennial removal and overhaul of motor, shaft, and impeller. (January of each odd-numbered year)
- 2) Maintenance/inspection and repair of dock and pilings. (twice a year, spring and fall)
- 3) Repair/inspection of pumping screen and metal framework. (twice a year, spring and fall)
- 4) Debris removal from pilings and screen area. (twice a year, spring and fall)

CITY duties:

- 1) Inspection of pumping system and maintain pumping log. (visually inspect shaft and screen weekly and/or daily)
- 2) Lubrication of system. (check oil-fill tank weekly, while in operation; re-fill as needed)
- 3) Inspection of electrical panel and system. (inspect motor panel periodically for tightness; and after any weather event such as thunderstorms, floods, high water, check to insure the pump has power from the PUD)
- 4) Cleaning of screens. (every 15 days or once a month)
- 5) Notify WSDOT upon discovery of any problem.

Both parties will keep a log of duties performed. Any pump maintenance issues not addressed in this letter of understanding shall be resolved by mutual agreement.

By their signatures below, the parties agree to execute these duties.

CITY

By: Robert Alford Bond

Title: Public Works Director

Date: 10-20-97

STATE

By: Keneth C. Kuhlman

Title: Regional Operations Engr.

Date: 11/12/97

RECEIVED

SEP 15 2014



15 September 2014

Mayor Grover Laseke
P>O> Box 9
Woodland, WA 98674

CITY OF WOODLAND

Honorable Mayor;

With this letter I tender my resignation on the City of Woodland's Horseshoe Lake Committee. I have been involved with this committee for twenty five years and they have accomplished many things to improve the quality and experience of Horseshoe Lake, with many more goals to achieve in the future.

This river, now Horse Shoe Lake, has been my pleasure the past eighty four years for swimming, fishing, boating and recreation with its continual improvements.

The City Council needs to be more supportive of the Committee in finances and legislation.

My recommendation for a replacement member would be a female or and a science teacher from the community at large.

Thank you,
Very truly yours


Walter Church Jr
124 Truth Street
Woodland, WA 98674