HORSESHOE LAKE MANAGEMENT COMMITTEE AGENDA

5:00 P.M. - THURSDAY, JULY 14, 2016

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

Call to Order

Citizen Communications for items NOT on the Agenda

Citizen Communications for items ON the Agenda

I. Approval of Minutes for June 9, 2016 - Postponed to August 11, 2016

II. Continued Business

A. Lake Update
- WA Department of Fish and Wildlife
- WA Department of Transportation
- Lake Tracking
- Complaints at 440 Island Aire Drive

B. Water Quality
- Testing (Centennial Grant)
  Matt Swanson, Environmental Health Specialist
- Weed Management
  Angelica Velazquez, Cowlitz County Noxious Weed Control Board
  Grass Carp Purchase

C. Aquatic Vegetation Management Plan
- DOE Plant Survey Confirmation

III. New Business

A. Shoreline Master Program
Amanda Smeller, Woodland Community Development Planner

IV. Other

A. Newspaper Articles - Algae Blooms

V. Adjourn - Next Meeting August 11, 2016 at 5:00 P.M.

DFW UPDATE

Jody Bartkowski

From: Kelsey, Stacie L (DFW) <Stacie.Kelsey@dfw.wa.gov>
Sent: Wednesday, July 13, 2016 1:47 PM
To: Jody Bartkowski
Subject: Re: HSLMC meeting tomorrow July 14th

We are still battling it out. I swear I'm not giving it up.

Grass carp survey coming up - no date since I don't want to schedule and end up having something come up.

I saw something about your buoys - it might be kids messing with them. There was a bunch in a raft messing with the one near the boat ramp a week or so ago.

Sent from Region 5 the best place to fish!

On Jul 13, 2016, at 1:39 PM, Jody Bartkowski <bartkowskij@ci.woodland.wa.us> wrote:

> Hi Staci -
>
> Anything new for the Lake Committee? Progress on the outlet structure repairs?
>
> Thanks,
>
> ~Jody Bartkowski-Herz
> Engineering Technician
> Woodland Public Works
> P O Box 9
> Woodland, WA 98674
> (360) 225-7999

Pump Update

Jody Bartkowski

From: London, Mike <LondonM@wsdot.wa.gov>
Sent: Wednesday, July 13, 2016 3:20 PM
To: Jody Bartkowski
Subject: RE: Horseshoe Lake Pump Update

After the summer we are going to pull the pump for a rebuild. As of right now I think a consuleant has been picked for a replacement project.

Sent from my Verizon, Samsung Galaxy smartphone

-------- Original message --------
From: Jody Bartkowski <bartkowskij@ci.woodland.wa.us>
Date: 7/13/16 1:38 PM (GMT-08:00)
To: "London, Mike" <LondonM@wsdot.wa.gov>
Subject: Horseshoe Lake Pump Update

Hi Mike -

We have a committee meeting tomorrow. Anything new to report? Pump seems to be operating normally and we have been able to keep up on the screen cleaning.

Thanks,

~Jody Bartkowski-Herz
Engineering Technician
Woodland Public Works
P O Box 9
Woodland, WA 98674
(360) 225-7999

HORSESHOE LAKE TRACKING
2016

Date	River Level 8:00 AM	Days High Temp	24-Hr Rainfall	Lake			Valve Status (Turns Open)	Pump (GPM)	Comments
				Level	Temp	Visibility			
1-Jun-16	10.56	81°	0.00				Closed		
2-Jun-16	10.18	77°	0.34				Closed	2,691	Screens cleaned.
3-Jun-16	9.59	88°	0.00				Closed	2,683	
4-Jun-16	9.32	91°	0.00				Closed		
5-Jun-16	9.16	[illegible]	0.00	-4	73°	9	Closed		HUGE jump in termperature!
6-Jun-16	9.81	90°	0.00				Closed		
7-Jun-16	9.62	88°	0.00				Closed	3,027	
8-Jun-16		77°	0.00				Closed		
9-Jun-16		60°	0.25				Closed		
10-Jun-16		66°	0.18				Closed	3,319	
11-Jun-16	9.94	71°	0.00				Closed		
12-Jun-16	9.79	73°	0.00	-5	69°	8	Closed		
13-Jun-16	9.63	64°	0.16				Closed	2,674	
14-Jun-16	9.29	64°	0.19				Closed		
15-Jun-16	10.01	72°	0.01	-6	69°	8	Closed		
16-Jun-16	9.80	74°	0.00				Closed		
17-Jun-16	9.49	73°	0.00				Closed	2,557	
18-Jun-16	9.33	69°	0.00				Closed		
19-Jun-16		77°	0.00				Closed		
20-Jun-16	8.21	86°	0.00				Closed		
21-Jun-16	8.39	74°	0.00				Closed		
22-Jun-16	8.76	79°	0.00				Closed		
23-Jun-16	8.91	64°	0.30				Closed		
24-Jun-16		73°	0.02				Closed	2,743	Screens cleaned.
25-Jun-16	9.00	77°	0.00				Closed		
26-Jun-16	9.27	86°	0.00				Closed		
27-Jun-16	9.56	83°	0.00				Closed		
28-Jun-16		84°	0.00				Closed	3,062	
29-Jun-16		73°	0.00				Closed		
30-Jun-16		74°	0.00				Closed		

HORSESHOE LAKE TRACKING
2016

Date	River Level 8:00 AM	Days High Temp	24-Hr Rainfall	Lake			Valve Status (Turns Open)	Pump (GPM)	Comments
				Level	Temp	Visibility			
1-Jul-16		79°	0.00				Closed		
2-Jul-16	9.65	81°	0.00				Closed		
3-Jul-16	8.51	75°	0.00	-10	72°	8	Closed		
4-Jul-16	8.17	68°	0.00				Closed		
5-Jul-16	8.25	72°	0.00				Closed		
6-Jul-16	8.51	80°	0.00				Closed		
7-Jul-16	8.77	76°	0.15				Closed		
8-Jul-16		77°	0.27				Closed		
9-Jul-16	9.23	75°	0.03				Closed		
10-Jul-16	9.23	78°	0.07	-10	71°	8	Closed		
11-Jul-16	8.99	81°	0.00				Closed		
12-Jul-16	8.95						Closed		Level projected.
13-Jul-16	8.95						Closed		Level projected.
14-Jul-16	9.28						Closed		Level projected.
15-Jul-16							Closed		
16-Jul-16							Closed		
17-Jul-16							Closed		
18-Jul-16							Closed		
19-Jul-16							Closed		
20-Jul-16							Closed		
21-Jul-16							Closed		
22-Jul-16							Closed		
23-Jul-16							Closed		
24-Jul-16							Closed		
25-Jul-16							Closed		
26-Jul-16							Closed		
27-Jul-16							Closed		
28-Jul-16							Closed		
29-Jul-16							Closed		
30-Jul-16							Closed		
31-Jul-16							Closed		

HORSESHOE LAKE TRACKING
2015

Date	River Level 8:00 AM	Days High Temp	24-Hr Rainfall	Lake			Valve Status (Turns Open)	Pump (GPM)	Comments
				Level	Temp	Visibility			
1-Jun-15	8.55	65°	0.64				Closed	3,219	
2-Jun-15	8.82	65°	0.41				Closed		
3-Jun-15	9.27	70°	0.03				Closed		
4-Jun-15		74°	0.00				Closed		
5-Jun-15		84°	0.00				Closed	3,264	
6-Jun-15	9.15	88°	0.00				Closed		
7-Jun-15	9.31	88°	0.00	-7	71°	8	Closed		
8-Jun-15	9.44	90°	0.00				Closed	2,935	
9-Jun-15		86°	0.00				Closed		
10-Jun-15		76°	0.00				Closed	2,443	Screens cleaned.
11-Jun-15		75°	0.00				Closed		
12-Jun-15	9.76	72°	0.00				Closed	3,090	
13-Jun-15	9.37	74°	0.00	-8	71°	8	Closed		
14-Jun-15	8.83	85°	0.00				Closed		
15-Jun-15	8.18	85°	0.00				Closed	2,688	
16-Jun-15	8.47	73°	0.00				Closed		
17-Jun-15	8.58	78°	0.00				Closed		
18-Jun-15	8.54	80°	0.00				Closed		
19-Jun-15	8.41	74°	0.00				Closed	2,630	Tested water quality; milfoil visable.
20-Jun-15	8.37	80°	0.00				Closed		
21-Jun-15	8.39	88°	0.00				Closed		
22-Jun-15	8.49	79°	0.00	-10	72°	8	Closed	2,579	
23-Jun-15	8.49	82°	0.00				Closed		
24-Jun-15	8.71	85°	0.00				Closed		
25-Jun-15	9.06	89°	0.00				Closed	2,150	Screens cleaned.
26-Jun-15	8.93	94°	0.00				Closed		
27-Jun-15		92°	0.00				Closed		
28-Jun-15		86°	0.00	-15	74°	8	Closed		
29-Jun-15		88°	0.00				Closed	2,915	
30-Jun-15	8.58	88°	0.00				Closed		

HORSESHOE LAKE TRACKING
2015

Date	River Level 8:00 AM	Days High Temp	24-Hr Rainfall	Lake			Valve Status (Turns Open)	Pump (GPM)	Comments
				Level	Temp	Visibility			
1-Jul-15	8.25	93°	0.00				Closed		
2-Jul-15	8.17	95°	0.00				Closed	2,611	
3-Jul-15		91°	0.00				Closed		
4-Jul-15		95°	0.00				Closed		
5-Jul-15	8.40	101°	0.00				Closed		
6-Jul-15	8.80	91°	0.00	-16	76°	7.5	Closed	2,715	
7-Jul-15	9.31	85°	0.00				Closed		
8-Jul-15	9.62	86°	0.00				Closed		
9-Jul-15	9.78	83°	0.00				Closed		
10-Jul-15	10.19	82°	0.00				Closed	3,066	Screens cleaned.
11-Jul-15	9.60	74°	0.00				Closed		
12-Jul-15	9.18	87°	0.00				Closed		
13-Jul-15	8.89	80°	0.00	-19	73°	6	Closed	3,368	
14-Jul-15		82°	0.00				Closed		
15-Jul-15		80°	0.00				Closed		
16-Jul-15		78°	0.00				Closed		
17-Jul-15		89°	0.00				Closed	3,254	
18-Jul-15		97°	0.00				Closed		
19-Jul-15		**100°**	0.00	-20	74°	6	Closed		
20-Jul-15	8.29	83°	0.00				Closed		
21-Jul-15	8.29	76°	0.00				Closed		
22-Jul-15	8.38	74°	0.00				Closed		
23-Jul-15	8.43	82°	0.00				Closed		
24-Jul-15	8.47	83°	0.00				Closed		
25-Jul-15	8.94	73°	**0.16**				Closed		
26-Jul-15	9.14	78°	**0.18**	-26	71°	6.5	Closed		
27-Jul-15	9.08	78°	0.00				Closed	90	
28-Jul-15	8.80	89°	0.00				Closed		
29-Jul-15	8.18	97°	0.00				Closed		
30-Jul-15	7.45	**102°**	0.00				Closed		
31-Jul-15	7.60	98°	0.00				Closed	130	

WATER USE COMPLAINT

Jody Bartkowski

From: Jody Bartkowski
Sent: Tuesday, July 12, 2016 3:50 PM
To: Jody Bartkowski
Subject: FW: Letter of complaint

From: Cline, Vicki (ECY) [mailto:VWIN461@ECY.WA.GOV]
Sent: Friday, July 08, 2016 10:09 AM
To: Mary Parsons
Subject: FW: Letter of complaint

Hi Mary, I received a phone message and this email yesterday afternoon from Mary Meeker regarding receipt of the Notification letter. Please let the City Park Board Committee know that for now voluntary compliance appears to have occurred. If you or anyone on the Committee see any other pumps/intakes in the Lake or anywhere else that does not seem right/within the law, let me know. Thank again for making Ecology aware of this situation. I emailed Mary to let her know she does not need to do anything else at this point.

Vicki Cline, Compliance & Enforcement
Water Resources Program
Southwest Regional Office
360 407-0278

From: Mary Meeker [mailto:maryameeker@gmail.com]
Sent: Thursday, July 07, 2016 4:30 PM
To: Cline, Vicki (ECY) <VWIN461@ECY.WA.GOV>
Subject: Letter of complaint

I have attached the letter that was sent my husband and myself.

We have removed any offending pump equipment.

I have attached a picture of that as well.

Is there anything else I need to do?

Thank you, Mary Meeker

Mary Meeker
Woodland Real Estate
Cell 360-936-5797
Office 360-225-8278
Fax 360-225-8279

STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY
PO Box 47775 • Olympia, Washington 98504-7775 • (360) 407-6300

July 1, 2016

Werter R and Mary A Meeker
440 Island Aire Dr
Woodland WA 98674

Re: Environmental Complaint – Unauthorized Pumping from Horseshoe Lake – Parcel No. 64515033 – 440 Island Aire Drive

Dear Mr. and Mrs. Meeker:

This letter is sent to notify you that a formal environmental complaint was filed with this office on June 21, 2016 alleging that water is being pumped from Horseshoe Lake and is being used to irrigate a yard and landscaping.

I have researched the water right records and did not locate any record that authorizes pumping water from Horseshoe Lake at this location. Pumping and use of any surface water requires a water right permit from this office. In addition, a Hydraulic Project Approval is required from the State Department of Fish & Wildlife for any intake water lines, pumps or work within any surface water system. If the allegation is true and pumping is occurring it needs to stop immediately along with removal of the intake line into the lake, pump and pipes. Removal of the intake, pump and pipes will help verify compliance.

I anticipate your voluntary compliance in this matter in that you will contact me upon receipt of this notification letter. If voluntary compliance is not achieved, formal enforcement may be initiated. Formal enforcement can be initiated through Administrative Orders and civil penalties.

* I am enclosing publications regarding water rights and compliance with the law. AVAILABLE IF YOUR INTERESTED

I can be reached in Olympia at (360) 407-0278 or by email at Vicki.cline@ecy.wa.gov

Sincerely,
Vicki Cline

Jody

Vicki Cline, Compliance & Enforcement
Water Resources Program
Southwest Regional Office

By Certified Mail: 7015 0640 0001 0768 4618

Enclosures

DOE-WEED SURVEY 2016

Jody Bartkowski

From: Larson, Hilarie <LarsonH@co.cowlitz.wa.us>
Sent: Monday, June 13, 2016 12:11 PM
To: Jody Bartkowski
Subject: FW: request for another plant survey - Horseshoe Lake, Cowlitz County

Hi!
I wanted to run this by you before I responded. I believe the answer to her question would be, "No plant management has taken place since then."
Correct?
~ Hilarie

From: Parsons, Jenifer (ECY) [mailto:jenp461@ECY.WA.GOV]
Sent: Monday, June 13, 2016 10:16 AM
To: Seebacher, Lizbeth (ECY); Larson, Hilarie
Subject: RE: request for another plant survey - Horseshoe Lake, Cowlitz County

Hi Hilarie,

Yes, Lizbeth and I had a look at the lake back in 2013, and at that time, found some milfoil at the south end, but not a lot. I can add it to my list of places to visit this summer.

Do you know if any plant management has been taking place on the lake?

Thanks,

Jenifer

Jenifer Parsons
Aquatic Plant Specialist
Washington State Department of Ecology
1250 W Alder St
Union Gap, WA 98903-0009
(509) 457-7136
(509) 834-3868 (cell)
Jenp461@ecy.wa.gov

From: Seebacher, Lizbeth (ECY)
Sent: Monday, June 13, 2016 9:08 AM
To: Parsons, Jenifer (ECY) <jenp461@ECY.WA.GOV>
Subject: FW: request for another plant survey - Horseshoe Lake, Cowlitz County

Looks like it went to a Jean, not you. ☺

Jody Bartkowski

From: Amanda Smeller
Sent: Tuesday, June 28, 2016 11:05 AM
To: 'Scott Perry'; Peter Boyce; Dennis Ripp; Mari Ripp; Will Finn; Jody Bartkowski
Subject: RE: New Dock rules - to be addopted

Hi, Scott.

Jody forwarded on your email and I will respond.

These new regulations are part of the Shoreline Master Program that will be in effect by the end of July (pending final adoption by Council on July 5 and final action by Ecology). As you recall, this document has been through a very lengthy (started in 2012) update process that included extensive public notification and review by Planning Commission/City Council and other agencies. We held an open house, that you did attend, in October 2015 and notified all those in the shoreline jurisdiction. We had very few people attend this open house, which was disappointing. Jody confirmed that the SMP document was brought before Park Board and the Lake Management Committee. We received comments from the Consolidated Diking District, which were addressed. We also received comments from the Lake Committee, but it was determined the comments weren't really in regards to the SMP itself and the new SMP was not going to effect the work the Lake Committee is doing. There were no concerns over the dock regulations, or most other regulations. Again, these regulations are not new and have been part of the proposed SMP text for quite some time, and was reviewed/approved by Planning Commission and City Council. Most of the regulations in the document are state prescribed and while a lot of the regulations we may have are consistent (not copied) from the county and other jurisdictions within, this is what Ecology wants and we should be compatible with our neighboring jurisdictions.

We submitted our draft to Ecology, by Council's approval, in June 2015, meeting the state required submittal deadline. It has taken Ecology some time to review and provide comment on our draft, which is why it is only just now that the document has come back before Council to be officially adopted. We knew the SMP was going to be in effect sometime in 2016, but Ecology was only recently able to provide the comment and give us our conditional approval.

Please let me know if you have further questions.

-Amanda

Amanda Smeller
Community Development Planner
City of Woodland
230 Davidson / PO Box 9
Woodland, WA 98674
(360) 225-1048
smellera@ci.woodland.wa.us

From: Scott Perry [mailto:ScottPerry@CNI.Net]
Sent: Monday, June 27, 2016 1:42 PM
To: 'Tom Golik' <goliktom@yahoo.com>; goobergrandpa@gmail.com; Jody Bartkowski <bartkowskij@ci.woodland.wa.us>; 'Mike Curry' <mmsoccerfan@yahoo.com>; 'Terry Jones' <tjswimdad@aol.com>; 'Pat Rychel' <prychel@pacifier.com>; 'Neil Van Horn' <neilvh02@gmail.com>; Susan Humbyrd <HumbyrdS@ci.woodland.wa.us>; 'Francis Patnode' <patnodes@teleport.com>
Cc: Will Finn <FinnW@ci.woodland.wa.us>; Benjamin Fredricks <FredricksB@ci.woodland.wa.us>
Subject: New Dock rules - to be addopted

Lake Committee and City of woodland

I'm very disappointed in that I just learned the city is planning on implementing new dock regulations but planning never thought to include the Large Management Committee in those that were involved in developing them. I suppose they just copied the regulations the rest of the county would designed for the rivers in the area. Why involve the one Committee that is involved with the one water where the city has anything to say about docks?

See attached as a starter for what planning is recommending. I haven't had time to review in detail but things that make no sense.

I tried to include the new City Administrator in this but his email displays on the ebsite but then copies as the mayors. I don't have time to copy al council members but would appreciate this being forwarded.

Scott Perry
Call anytime being available is part of my service
(360) 921-2306

Rick Jaspers of Longview maneuvers his kayak through green algae and lily pads Monday on Lake Sacajawea next to the Louisiana Street bridge.

ROGER WERTH, THE DAILY NEWS

Lake algae blooms early

Despite daily flush of 4 million gallons, Sacajawea may be in for gooey summer

HAYAT NORIMINE
hnorimine@tdn.com

In the late morning Monday, Rick Jaspers glided over the still waters of Lake Sacajawea in his kayak. The experience, though, was tainted by islands of gooey green algae floating on the surface. Like icebergs, most of the mass of green goo lurked under water.

Algae is thriving early and abundantly this year, even though Longview is flushing the lake as usual with 4 million gallons fresh water drawn from the Cowlitz River daily.

"I walk around there a lot, but you really have a different perspective when you're out in the middle of it," Jaspers said.

There's no odor yet, but the problem likely will get worse later this summer. In August, the city will shut down the flushing operation entirely to modify pipes, screens and water intakes at the old Fisher's Lane water plant, which the city will modify to continue drawing water from the river to flush the lake.

Work on the $1.7 million project began in June and is expected to wrap up by Oct. 31. The improvements will conform to federal standards meant to protect smelt and other endangered species, particularly salmon, and make the operation more efficient. The city considered other options for keeping the lake fresh but rejected them as far too costly.

Amy Blain, the city's project engineer, said hot weather can cause more algae to bloom. Longview has experienced early record-breaking heat waves starting in April, which likely is a factor in this year's outbreak.

"You will get algae when you get high temperatures," Blain said. "We've seen that happen in the past."

Blain said she hasn't received any citizen complaints this summer, and there's a limit to what the city can do if algae becomes a problem. The city can drop the water levels down and try to wash some growth out at the south end of the lake, she said.

"There may be small clusters of algae here and there ... and those are likely to persist throughout the year regardless of our flushing efforts," Blain said by email. "A large bloom in the middle or north lobes would not be so easily dealt with."

Plenty of slime already has badly tainted the north end of the lake between Louisiana Street and Ocean Beach Highway, and the section south of Louisiana Street also is teeming with the green goo.

Chris Bischoff, environmental health manager at the Cowlitz County Health Department, said possibly other factors contributing to large algae blooms are

Please see Algae, Page A4

Algae

From A1

nutrients washing into the lake. Nutrients could be coming from urban stormwater and perhaps the Cowlitz itself.

Blain said she hasn't received any citizen complaints lately. She said before the flushing began in May, stormwater staff noticed algae blooms north of the Washington Way bridge on the west side and in the south by Kessler Elementary School. Water quality improved there after flushing began, she said.

But even pouring 4 million gallons of fresh river water into the lake daily can only have so much impact: At that rate, it takes a month to flush the entire lake, which holds about 130 million gallons of water.

Jaspers said the algae doesn't deter him from kayaking in the lake because he is training for a triathlon. But that might change if algae starts to smell, he said.

The city is not allowed to flush the lake before May 15 or after Oct. 31 due to federal concerns of flushing protected smelt.

Contact Daily News reporter Hayat Norimine at 360-577-7828

ARTICLE 2

Experts: More algae blooms to come

Climate change could cause algae boom

7-1-16

THE ASSOCIATED PRESS

BEND — Oregon is one of several states without a routine water testing program, meaning many bodies of water aren't monitored for harmful algae blooms.

Such blue-green algae blooms cause a handful of the state's lakes to be shut down each summer. The blooms are caused by toxin-producing bacteria and often form a green paint-like scum on the surface of the water. It can cause health problems for humans and can kill livestock and pets.

Most blooms are only a minor inconvenience, but environmental authorities are concerned that climate change and runoff are increasing the frequency and severity of harmful algae blooms and putting people and animals at greater risk.

The state relies on other agencies to test for toxins and inform state officials if the levels are unsafe.

Dr. Wayne Carmichael, a now-retired algae expert, says the blooms will get worse unless people address water quality.

"We'll have more of them producing toxins, more frequently and in longer durations," he said. "And sooner or later people will become more acutely poisoned."

The blooms are not actually algae, but cyanobacteria, single-celled organisms that have a metabolism similar to that of algae. Cyanobacteria are among the oldest life forms on earth.

"They're actually good bacteria. They just get a little bit out of hand," explained Rebecca Hillwig, an environmental health specialist who runs the Harmful Algae Bloom Surveillance Program for the Oregon Health Authority.

At Yo...