

From: [Julie Underwood](#)
To: [Jesse Salomon](#)
Cc: [Carolyn Wurdeman](#); [Heidi Costello](#)
Subject: FW: Hidden Lake Dredging
Date: Friday, August 02, 2013 8:55:34 AM

Hi Jesse, here are the responses to your questions. We'll add to I-legislate.

Thanks,
Julie

Julie T. Underwood
City Manager
City of Shoreline
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(206) 801-2213

From: Mark Relph
Sent: Friday, August 02, 2013 8:27 AM
To: Carolyn Wurdeman; Eric Bratton
Cc: Debbie Tarry; Julie Underwood; Brian Landau
Subject: FW: Hidden Lake Dredging

Carolyn and Eric: Here are our responses to Councilmember Salomon's questions.

Thanks, Mark

From: Brian Landau
Sent: Thursday, August 01, 2013 5:13 PM
To: Mark Relph
Subject: RE: Hidden Lake Dredging

Mark

Here are my responses to Jesse Salomon questions.

Thanks
Brian

1. What are the environmental costs and benefits to not dredging?

Response: As mentioned in the staff report, staff proposes a study to evaluate the alternatives to reduce the maintenance costs of the facility. Currently, the pond does not provide a water quality benefit except for the settling of sediment that would otherwise be transported to Puget Sound.

The sediment in the pond is from erosion of Boeing Creek. It is likely the sediment would still deposit in a wetland feature before being transported downstream.

2. As it reverts to wetlands will it thus better clean urban runoff before the runoff goes to the ocean? Would there be impacts to adjacent property such that their homes could collapse from erosion or flooding if the lake reverts back to wetlands? Would we be legally liable for this since we had undertaken dredging maintenance so far?

Response: A forested wetland may provide an improved water quality benefit; as stated earlier, staff proposes a feasibility study of alternatives that will address the advantages and disadvantages of each alternative, including environmental benefits and associated short and long term costs.

All of the homes adjacent to Hidden Lake are above Hidden Lake. The current facility does not provide any flood control benefit as it has no flood volume storage. The homes on the adjacent property are not threatened by erosion or flooding from Boeing Creek and thus a conversion to a forested wetland (which existed for many years) does not create an environmental hazard risk to the properties.

3. What is the carbon footprint of dredging from running 500 truck loads of dirt out of the area?

Fuel Type:	DIESEL
Average MPG:	6
Annual Mileage:	20000 (Assumes 500 truck loads at 40 miles round trip)
Fuel costs @ 1.09 per litre:	£16,517.41

Carbon Footprint: 41.61 tonnes of CO2 or 46 English tons of CO2

4. What happens if we just don't fund dredging for 2013, don't do a study, and immediately let the "river take its course?"

Response: To fully answer this question is why staff recommends a study

with a public process to evaluate long term management strategies for Hidden Lake with the goals for the Utility being low maintenance costs and environmental benefits. If no dredging occurs in 2013, more sediment will accumulate in the lake and upstream of the lake, and it effectively becomes an unmanaged facility. Staff does not recommend the concept of an unmanaged stormwater facility until an analysis has occurred that provides that informed recommendation.

From: Julie Underwood
Sent: Wednesday, July 31, 2013 1:50 PM
To: Jesse Salomon
Cc: Mark Relph; Debbie Tarry
Subject: RE: Hidden Lake Dredging

Hi Jesse, Thanks for your questions in advance of the Council meeting. We'll work on them and hopefully have a response soon.

Julie T. Underwood
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From: Jesse Salomon
Sent: Wednesday, July 31, 2013 1:43 PM
To: Julie Underwood
Subject: Hidden Lake Dredging

What are the environmental costs and benefits to not dredging? As it reverts to wetlands will it thus better clean urban runoff before the runoff goes to the ocean? Would there be impacts to adjacent property such that their homes could collapse from erosion or flooding if the lake reverts back to wetlands? Would we be legally liable for this since we had undertaken dredging maintenance so far?

What is the carbon footprint of dredging from running 500 truck loads of dirt out of the area?

What happens if we just don't fund dredging for 2013, don't do a study, and immediately let the "river take its course?"

Jesse Salomon, Councilmember
City of Shoreline

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Sent from my iPad