



Chris Linneman
Summers Engineering, Inc.
887 N. Irwin Street
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August 21, 2023

Chris:

I have enclosed our report “Evaluation of the Toxicity of Grasslands Bypass Project Ambient Water Sample: Event 100” for the sample that was collected July 27, 2023. The results of this testing are summarized below.

Toxicity summary for Grasslands Bypass Project ambient water samples.			
Sample Station	Toxicity relative to the Lab Control treatment?		
	<i>Selenastrum capricornutum</i>	<i>Daphnia magna</i>	Fathead Minnow
	Growth	Survival	Survival
Site D	No	No	No

Chronic Toxicity of Grasslands Bypass Project Ambient Waters to *Selenastrum capricornutum*

There were **no** significant reductions in algal growth in the Grasslands Bypass Project ambient water sample.

Acute Toxicity of Grasslands Bypass Project Ambient Waters to *Daphnia magna*

There were **no** significant reductions in survival in the Grasslands Bypass Project ambient water sample.

Acute Toxicity of Grasslands Bypass Project Ambient Waters to Fathead Minnows

There were **no** significant reductions in survival in the Grasslands Bypass Project ambient water sample.



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September 26, 2023

Chris:

I have enclosed our report “Evaluation of the Toxicity of Grasslands Bypass Project Ambient Water Sample: Event 101” for the sample that was collected August 24, 2023. The results of this testing are summarized below.

Toxicity summary for Grasslands Bypass Project ambient water samples.			
Sample Station	Toxicity relative to the Lab Control treatment?		
	<i>Selenastrum capricornutum</i>	<i>Daphnia magna</i>	Fathead Minnow
	Growth	Survival	Survival
Site D	No	No	No

Chronic Toxicity of Grasslands Bypass Project Ambient Waters to *Selenastrum capricornutum*

There were **no** significant reductions in algal growth in the Grasslands Bypass Project ambient water sample.

Acute Toxicity of Grasslands Bypass Project Ambient Waters to *Daphnia magna*

There were **no** significant reductions in survival in the Grasslands Bypass Project ambient water sample.

Acute Toxicity of Grasslands Bypass Project Ambient Waters to Fathead Minnows

There were **no** significant reductions in survival in the Grasslands Bypass Project ambient water sample.