



April 26, 2021

#### Chris:

I have enclosed our report "Evaluation of the Toxicity of Grasslands Bypass Project Ambient Water and Sediment Samples: Event 72" for the samples that were collected March 18, 2021. The results of this testing are summarized below.

Toxicity summary for Grasslands Bypass Project ambient water and sediment samples.				
	Toxicity relative to the Lab Control treatment?			
Sample Station	Selenastrum capricornutum	Daphnia magna	Fathead Minnow	Hyalella azteca
	Growth	Survival	Survival	Survival
Site D	No	No	No	No
Site B3	Yes	No	No	
Site F	No	No	No	
Site R	No	No	No	

### Chronic Toxicity of Grasslands Bypass Project Ambient Water to Selenastrum capricornutum

There was a significant effect in algal growth in the Site B3 ambient water sample. There were <u>no</u> significant reductions in algal growth in any of the remaining Grasslands Bypass Project ambient water samples.

### Acute Toxicity of Grasslands Bypass Project Ambient Water to Daphnia magna

There were *no* significant reductions in survival in any of the Grasslands Bypass Project ambient water samples.

## Acute Toxicity of Grasslands Bypass Project Ambient Water to Fathead Minnows

There were <u>no</u> significant reductions in survival in any of the Grasslands Bypass Project ambient water samples.

#### Acute Toxicity of Grasslands Bypass Ambient Sediment to Hyalella azteca

There was **no** significant reduction in survival in the Site D sediment tested with *H. azteca*.



April 7, 2021

#### Chris:

I have enclosed our report "Evaluation of the Toxicity of Grasslands Bypass Project Ambient Water: Event 73" for the sample that was collected April 14, 2021. The results of this testing are summarized below.

Toxicity summary for the Grasslands Bypass Project ambient water sample.			
Toxicity relative to the Lab Water Control treatment?			trol treatment?
Sample Station	Selenastrum capricornutum	Daphnia magna	Fathead Minnow
	Growth	Survival	Survival
GBP-73-D-TE	No	No	No

# Chronic Toxicity of Grasslands Bypass Project Ambient Water to Selenastrum capricornutum

There was <u>no</u> significant reduction in growth in the Site D ambient water sample.

Acute Toxicity of Grasslands Bypass Project Ambient Water to *Daphnia magna* There was *no* significant reduction in survival in the Site D ambient water sample.

Acute Toxicity of Grasslands Bypass Project Ambient Water to Fathead Minnows There was <u>no</u> significant reduction in survival in the Site D ambient water sample.

If you have any questions regarding the performance and interpretation of these tests, feel free to contact us at (707) 207-7760.

Sincerely,

Stevi Vasquez Project Manager



Pacific EcoRisk is accredited in accordance with NELAP (ORELAP ID 4043). Pacific EcoRisk certifies that the test results reported herein conform to the most current NELAP requirements for parameters for which accreditation is required and available. Any exceptions to NELAP requirements are noted, where applicable, in the body of the report. This report shall not be reproduced, except in full, without the written consent of Pacific EcoRisk. This testing was performed under Lab Order 22166.



June 14, 2021

#### Chris:

I have enclosed our report "Evaluation of the Toxicity of Grasslands Bypass Project Ambient Water: Event 74" for the sample that was collected May 20, 2021. The results of this testing are summarized below.

Toxicity summary for the Grasslands Bypass Project ambient water sample.			
Toxicity relative to the Lab Water Control treatment			trol treatment?
Sample Station	Selenastrum capricornutum Daphnia magna		Fathead Minnow
	Growth	Survival	Survival
GBP-74-D-TE	No	No	No

# Chronic Toxicity of Grasslands Bypass Project Ambient Water to Selenastrum capricornutum

There was <u>no</u> significant reduction in growth in the Site D ambient water sample.

Acute Toxicity of Grasslands Bypass Project Ambient Water to *Daphnia magna* There was *no* significant reduction in survival in the Site D ambient water sample.

Acute Toxicity of Grasslands Bypass Project Ambient Water to Fathead Minnows There was *no* significant reduction in survival in the Site D ambient water sample.

If you have any questions regarding the performance and interpretation of these tests, feel free to contact us at (707) 207-7760.

Sincerely,

Stevi Vasquez Project Manager



Pacific EcoRisk is accredited in accordance with NELAP (ORELAP ID 4043). Pacific EcoRisk certifies that the test results reported herein conform to the most current NELAP requirements for parameters for which accreditation is required and available. Any exceptions to NELAP requirements are noted, where applicable, in the body of the report. This report shall not be reproduced, except in full, without the written consent of Pacific EcoRisk. This testing was performed under Lab Order 22166.



August 2, 2021

#### Chris:

I have enclosed our report "Evaluation of the Toxicity of Grasslands Bypass Project Ambient Water: Event 75" for the sample that was collected June 30, 2021. The results of this testing are summarized below.

Toxicity summary for the Grasslands Bypass Project ambient water samples.				
	Toxicity relative to the Lab Water Control treatment?			
Sample Station	Selenastrum capricornutum	Daphnia magna	Fathead Minnow	
	Growth	Survival	Survival	
GBP-75-D-TE	No	No	No	
GBP-75-F-TE	No	No	No	
GBP-75-R-TE	No	No	No	

# Chronic Toxicity of Grasslands Bypass Project Ambient Water to Selenastrum capricornutum

There were <u>no</u> significant reductions in algal growth in any of the ambient water samples.

Acute Toxicity of Grasslands Bypass Project Ambient Water to *Daphnia magna* There were <u>no</u> significant reductions in survival in any of the ambient water samples.

Acute Toxicity of Grasslands Bypass Project Ambient Water to Fathead Minnows There were <u>no</u> significant reductions in survival in any of the ambient water samples.



August 19, 2021

#### Chris:

I have enclosed our report "Evaluation of the Toxicity of Grasslands Bypass Project Ambient Water: Event 76" for the sample that was collected July 22, 2021. The results of this testing are summarized below.

Toxicity summary for the Grasslands Bypass Project ambient water sample.				
	Toxicity relative to the Lab Water Control treatment?			
Sample Station	Selenastrum capricornutum	Daphnia magna	Fathead Minnow	
	Growth	Survival	Survival	
GBP-76-D-TE	No	No	No	

### Chronic Toxicity of Grasslands Bypass Project Ambient Water to Selenastrum capricornutum

There was <u>no</u> significant reduction in growth in the Site D ambient water sample.

Acute Toxicity of Grasslands Bypass Project Ambient Water to Daphnia magna There was <u>no</u> significant reduction in survival in the Site D ambient water sample.

Acute Toxicity of Grasslands Bypass Project Ambient Water to Fathead Minnows There was **no** significant reduction in survival in the Site D ambient water sample.

If you have any questions regarding the performance and interpretation of these tests, feel free to contact us at (707) 207-7760.

Sincerely,

Stephen Clark for: Stevi Vasquez Project Manager



Pacific EcoRisk is accredited in accordance with NELAP (ORELAP ID 4043). Pacific EcoRisk certifies that the test results reported herein conform to the most current NELAP requirements for parameters for which accreditation is required and available. Any exceptions to NELAP requirements are noted, where applicable, in the body of the report. This report shall not be reproduced, except in full, without the written consent of Pacific EcoRisk. This testing was performed under Lab Order 22166.