

### 3. RESULTS

#### 3.1 Effects of the Grasslands Bypass Project Ambient Water on *Selenastrum capricornutum*

The results for this testing are summarized in Table 2. The TST analysis resulted in a pass, indicating that the sample was not toxic for the growth endpoint. The test data and summary of statistical analyses for this testing are presented in Appendix B.

Table 2. Effects of Grasslands Bypass Project ambient water on <i>Selenastrum capricornutum</i>			
Treatment/Sample ID	Mean Algal Cell Density (cells/mL x 10 <sup>6</sup> )	TST Analysis	% Effect
Lab Water Control	1.80		
GBP-118-D-TE	5.32	Pass	-195%

#### 3.2 Effects of the Grasslands Bypass Project Ambient Water on *Daphnia magna*

The results for this testing are summarized in Table 3. The TST analysis resulted in a pass, indicating that the sample was not toxic for the survival endpoint. The test data and summary of statistical analyses for this testing are presented in Appendix C.

Table 3. Effects of Grasslands Bypass Project ambient water on <i>Daphnia magna</i> .			
Treatment/Sample ID	Mean % Survival	TST Analysis	% Effect
Lab Water Control	100		
GBP-118-D-TE	95.0	Pass	5.0%

#### 3.3 Effects of the Grasslands Bypass Project Ambient Water on Fathead Minnows

The results for this testing are summarized in Table 4. The TST analysis resulted in a pass, indicating that the sample was not toxic for the survival endpoint. The test data and summary of statistical analyses for this testing are presented in Appendix D.

Table 4. Effects of Grasslands Bypass Project ambient water on fathead minnows.			
Treatment/Sample ID	Mean % Survival	TST Analysis	% Effect
Lab Water Control	97.5		
GBP-118-D-TE	100	Pass	-2.6%



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Table 2. Effects of Grasslands Bypass Project ambient water on <i>Selenastrum capricornutum</i>			
Treatment/Sample ID	Mean Algal Cell Density (cells/mL x 10 <sup>6</sup> )	TST Analysis	% Effect
Lab Water Control	2.64		
GBP-119-D-TE	6.18	Pass	-134%

#### 3.2 Effects of the Grasslands Bypass Project Ambient Water on *Daphnia magna*

The results for this testing are summarized in Table 3. The TST analysis resulted in a pass, indicating that the sample was not toxic for the survival endpoint. The test data and summary of statistical analyses for this testing are presented in Appendix C.

Table 3. Effects of Grasslands Bypass Project ambient water on <i>Daphnia magna</i> .			
Treatment/Sample ID	Mean % Survival	TST Analysis	% Effect
Lab Water Control	95.0		
GBP-119-D-TE	100	Pass	-5.3%

#### 3.3 Effects of the Grasslands Bypass Project Ambient Water on Fathead Minnows

The results for this testing are summarized in Table 4. The TST analysis resulted in a pass, indicating that the sample was not toxic for the survival endpoint. The test data and summary of statistical analyses for this testing are presented in Appendix D.

Table 4. Effects of Grasslands Bypass Project ambient water on fathead minnows.			
Treatment/Sample ID	Mean % Survival	TST Analysis	% Effect
Lab Water Control	100		
GBP-119-D-TE	100	Pass	0.0%



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#### 3.1 Effects of the Grasslands Bypass Project Ambient Water on *Selenastrum capricornutum*

The results for this testing are summarized in Table 2. TST analysis resulted in a pass, indicating that the samples were not toxic for the growth endpoint. The test data and summary of statistical analyses for this testing are presented in Appendix B.

Table 2. Effects of Grasslands Bypass Project ambient water on <i>Selenastrum capricornutum</i>			
Treatment/Sample ID	Mean Algal Cell Density (cells/mL x 10 <sup>6</sup> )	TST Analysis	% Effect
Lab Water Control	2.05		
GBP-120-D-TE	7.25	Pass	-253%
GBP-120-B3-TE	4.05	Pass	-97%
GBP-120-F-TE	6.70	Pass	-226%
GBP-120-R-TE	6.62	Pass	-222%

#### 3.2 Effects of the Grasslands Bypass Project Ambient Water on *Daphnia magna*

The results for this testing are summarized in Table 3. TST analysis resulted in a pass, indicating that the samples were not toxic survival endpoint. The test data and summary of statistical analyses for this testing are presented in Appendix C.

Table 3. Effects of Grasslands Bypass Project ambient water on <i>Daphnia magna</i> .			
Treatment/Sample ID	Mean % Survival	TST Analysis	% Effect
Lab Water Control	100		
GBP-120-D-TE	100	Pass	0.0%
GBP-120-B3-TE	100	Pass	0.0%
GBP-120-F-TE	95.0	Pass	5.0%
GBP-120-R-TE	100	Pass	0.0%



### 3.3 Effects of the Grasslands Bypass Project Ambient Water on Fathead Minnows

The results for this testing are summarized in Table 4. TST analysis resulted in a pass, indicating that the samples were not toxic survival endpoint. The test data and summary of statistical analyses for this testing are presented in Appendix D.

Table 4. Effects of Grasslands Bypass Project ambient water on fathead minnows.			
Treatment/Sample ID	Mean % Survival	TST Analysis	% Effect
Lab Water Control	100		
GBP-120-D-TE	100	Pass	0.0%
GBP-120-B3-TE	100	Pass	0.0%
GBP-120-F-TE	100	Pass	0.0%
GBP-120-R-TE	100	Pass	0.0%



### 3. RESULTS

#### 3.1 Effects of the Grasslands Bypass Project Ambient Water on *Selenastrum capricornutum*

The results for this testing are summarized in Table 2. The TST analysis resulted in a pass, indicating that the sample was not toxic for the growth endpoint. The test data and summary of statistical analyses for this testing are presented in Appendix B.

Table 2. Effects of Grasslands Bypass Project ambient water on <i>Selenastrum capricornutum</i>			
Treatment/Sample ID	Mean Algal Cell Density (cells/mL x 10 <sup>6</sup> )	TST Analysis	% Effect
Lab Water Control	2.34		
GBP-121-D-TE	6.57	Pass	-181%

#### 3.2 Effects of the Grasslands Bypass Project Ambient Water on *Daphnia magna*

The results for this testing are summarized in Table 3. The TST analysis resulted in a pass, indicating that the sample was not toxic for the survival endpoint. The test data and summary of statistical analyses for this testing are presented in Appendix C.

Table 3. Effects of Grasslands Bypass Project ambient water on <i>Daphnia magna</i> .			
Treatment/Sample ID	Mean % Survival	TST Analysis	% Effect
Lab Water Control	100		
GBP-121-D-TE	95.0	Pass	5.0%

#### 3.3 Effects of the Grasslands Bypass Project Ambient Water on Fathead Minnows

The results for this testing are summarized in Table 4. The TST analysis resulted in a pass, indicating that the sample was not toxic for the survival endpoint. The test data and summary of statistical analyses for this testing are presented in Appendix D.

Table 4. Effects of Grasslands Bypass Project ambient water on fathead minnows.			
Treatment/Sample ID	Mean % Survival	TST Analysis	% Effect
Lab Water Control	100		
GBP-121-D-TE	100	Pass	0.0%



### 3.4 Effects of the Grasslands Bypass Project Ambient Sediment on *Hyalella azteca*

The results for this testing are summarized in Table 4. The TST analysis resulted in a pass, indicating that the sample was not toxic for the survival endpoint. The test data and summary of statistical analyses for this testing are presented in Appendix E.

Table 5. Effects of Grasslands Bypass Project ambient sediment on <i>Hyalella azteca</i> .			
Treatment/Sample ID	Mean % Survival	TST Analysis	% Effect
Lab Water Control	100		
GBP-121-D-SE	98.8	Pass	1.2%

