

# Stream Field Datasheet (Tier 1)

## Utah Water Watch



Site Name: \_\_\_\_\_ Date Sampled: \_\_\_\_\_ Time Sampled: \_\_\_\_\_

Field Monitor Name(s): \_\_\_\_\_

UWW ID: \_\_\_\_\_ Hours Sampling/traveling: \_\_\_\_\_ Miles traveled: \_\_\_\_\_

UWW Site ID: \_\_\_\_\_ # of participants: \_\_\_\_\_ Decontamination: Yes No

**FIELD OBSERVATIONS** (Circle one for each, unless instructed otherwise):

<b>Stream Flow:</b>	Flood	High/Runoff	Normal/Baseflow	Low	No flow		
<b>Water Clarity:</b>	Clear	Cloudy/Milky	Turbid				
<b>Water Surface:</b>	Sheen/Oily	Trash	Natural Debris	Foamy	Scummy	Clear	
<b>Water Color:</b>	Clear	Brownish	Greenish	Reddish	Blue	Orange	
<b>Site Odor:</b>	None	Chlorine	Sewage	Fishy	Musky	Oil	Rotten Egg
<b>Algae Cover:</b>	Abundant Filamentous	Thick Substrate Layer	Little Filamentous	Moderate Substrate Layer	Little/Rare		
<b>Dead Fish:</b>	None	1 to 3	4 to 10	>10			
<b>Current Weather:</b>	Clear	Cloudy	Overcast	Light Rain	Heavy Rain	Snow	
<b>Photo Point:</b> (Circle one for each photo taken):	Upstream		Downstream				

Provide short description of each photo:

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Rainfall in past 24 hours (inches) \_\_\_\_\_

Comments: \_\_\_\_\_

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Utah Water Watch Tier 1 Stream Datasheet

**FIELD SAMPLES:**

**Location** (*circle one*):            Center            Side  
**Habitat** (*circle one*):            Pool            Run            Riffle

Parameter	Reading (measurement)	Unit	Allowable Range in Utah
Air Temperature		°C	
Water Temperature		°C	Max temp for warm water fish = 27 °C Max temp for cold water fish = 20 °C
pH		None	6.5-9.0
Dissolved Oxygen		mg/L	Min for warm water fish = 5.5 mg/L Min for cold water fish = 6.5 mg/L
Turbidity		cm (convert to NTUs using chart)	Turbidity should not change more than 10 NTUs
<b>Salinity Parameters</b>			
Conductivity		µS/cm	1880 µS/cm is approximately equal to TDS of 1200 mg/L
TDS		mg/L (1 ppm = 1 mg/L)	1200 mg/L maximum allowable value of TDS for water used for irrigation
Water Temperature (conductivity meter reading)		°C	

**ALGAL MONITORING** (*Circle one for each*):

<b><i>Algae observed in stream?</i></b>	<b>Yes</b>	<b>No</b>	
<b><i>Types Observed</i></b>	<i>Floating Scum</i>	<i>Water column</i>	<i>Filamentous</i>
<b><i>Harmful bloom suspected?</i></b>	Yes	No	
<b><i>Bloomwatch / UWW contacted?</i></b>	Yes	No	

**Comments** (*location of blooms and percent cover*):

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**E. coli BACTERIA - (Coliscan Easygel Method): MONTHLY – May through Sept.**

Incubation start time: \_\_\_\_\_ Total hours: \_\_\_\_\_ Incubation temp °C: \_\_\_\_\_

$$\text{Concentration} = \left( \frac{100}{\text{Sample size in mL}} \right) \times \left( \frac{\text{colonies}}{\text{counted}} \right) = \frac{\text{cfu}}{100 \text{ mL}}$$

$$\text{Reading \#1} \left( \frac{100}{\quad} \right) \times ( \quad ) = \frac{\text{cfu}}{100 \text{ mL}}$$

$$\text{Reading \#2} \left( \frac{100}{\quad} \right) \times ( \quad ) = \frac{\text{cfu}}{100 \text{ mL}}$$

$$\text{Average Concentration} = \frac{(\text{Reading \#1} + \text{Reading \#2})}{2}$$

$$\text{Average E. coli} = \text{_____ cfu / 100 ml}$$

*NOTE: If average is greater than 400 cfu / 100 ml, contact UWW.*