

Field Datasheet



City		Date						
Investigators			Start Time		End Time			
Tide Height +/- ft			Tide Time		Past 24hr Rainfall			
Weather (circle)	Sun/Clear	Part Cloud	Overcast	Rain-Light, Mod, Heavy	Snow	↓ DRY OUTFALLS ↓		
Site ID								
Arrival Time								
Flow: T, M or H						Thresholds		
						Outfall	Creek	
Flow compared to expected based on rainfall (circle)	Higher Normal Lower	Higher Normal Lower	Higher Normal Lower	Higher Normal Lower	Higher Normal Lower	unexpected high or low flow		
Air Temp °C								
Water Temp °C						> air T	>16°C or >17.5°C	
DO mg/l						< 6 mg/l	< 10.0 mg/l	
SPC µS/cm						> 500 µS/cm		
Salinity ppt								
pH						< 5 or > 9	< 6.5 or > 8.5	
Turbidity ntu						> 50 ntu	site specific	
Color	Rank 0-3					any non-natural phenomena		
	Describe							
Odor	Rank 0-3							
	Describe							
Visual	Rank 0-3							
	Describe							
Bacteria Bottle #								
Notes:								

Protocol Reminders

- **YSI meter** – turn on before you leave to sample and leave on between sites.
- **Flow** - do not monitor/sample stagnant/pooled water. There **must be an observable flow**.
- **Rinse all containers 3x each** with outfall/creek water and keep 4th fill to sample/monitor.
- **Collect samples directly from outfall or creek** for bacteria and turbidity, when possible.
- **DO** - swirl YSI probe quickly, but slow enough not to spill sample. When DO value increases or decreases slightly with a random pattern record the value.
- **Turbidity: wipe off vial** to remove water, debris & finger prints. **Gently invert 3x** before testing.

Guide to Filling Out Worksheet

- **Investigators:** list all who are present. This is how we track volunteer hours for grants.
- **Tide:** record tide at start of sampling, example - 0.25' @ 13:14
- **Past 24hr Rainfall:** from the start of sampling; use recommended website/app for your city.
- **Air Temp:** read field thermometer while shaded from the sun; give it 3-4 minutes to stabilize.
- **Flow:** record appropriate letter and circle if greater or less than expected based on rainfall.

Flow Rate	Stormwater Outfall	Creek
N = none	no flow/stagnant pooled water	creek bed is dry
T = trickle	fills 16 oz. cup in 2 minutes	lots of exposed rocks/sediment
M = moderate	between trickle and high	between trickle and high
H = high	fills 16 oz. cup in 1 seconds	flow close to high water mark

- **Color:** Observations may include brown, reddish brown, light green etc... **Record the color seen** and a severity rating. Ex: Brown 3.
- **Odor:** Observations may include sulfur, fossil fuel, sewer, perfume... Record the odor smell and a severity rating. Ex: Rotten Eggs 2.
- **Visual:** Observations may include sheen, floaters, foam etc... Record the visual and a severity rating. Ex: Sheen 1.
- **Any condition rated >0:** photograph and describe in Notes.

Color Severity Scale		Odor Severity Scale		Visual Severity Scale	
0	None	0	None	0	None
1	Faint - faint color in sample	1	Faint - odor barely noticeable	1	Few/slight
2	Moderate - color clearly visible in sample	2	Moderate - odor easily detected	2	Moderate
3	Intense - color clearly visible in outfall flow or creek	3	Strong - noticeable several feet away	3	Excessive/severe

Back at the Lab

- Complete datasheet. Include completion time.
- Snap photo of worksheet with smartphone and send to **woodc@umich.edu**
- Rinse out sample cup and vial of any sediment or debris.
- Wipe down YSI instrument with Clorox wipes.
- Remove grey vinyl probe cover and place probe in pink storage solution.

For additional resources and instructional materials visit: <https://stormwater-salishsea.org/>