



Biology 507 - In Lab Workshop
Photosynthetic Microbes from Local Rivers
& Beyond
Web Template - Session One



National Science Foundation
 Western Oregon University
 Yellowstone National Park

Name:

MUD ENRICHMENT TECHNIQUES

<u>Write Description</u>	<u>Insert Picture</u>
Mud Source (include pH and temperature)	
Winogradky Set-Up, Part 1	
Winogradky Set-Up, Part 2	
Winogradky Set-Up, Part 3	
Windogradsky Final	
Bottle Set-Up	
Bottle Set-Up Final	

Discussion/Questions:

1. Name all microbes from lecture that may grow in the Winogradsky Column - explain your answer.
2. Name all the microbes from lecture that may grow in each of the bottles - explain your answer.

DIVERSITY ANALYSIS

<u>Write Description</u>	<u>Insert Micrograph</u>
Mystery Sample A	
Mystery Sample B	
Mystery Sample C	
Mystery Sample D	
Mystery Sample E	

Analysis Table

Based on evidence above, proposes group-level identity to the mystery samples. Next week, you will extract pigments from these agents, which may assist your interpretation.

<u>Mystery Sample</u>	<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>
Macroscopic Color					
Microscopic Color					
Cell Organization					
Cell Size (microns)					
Chloroplasts?					
Likely Identity					