

**Geochemistry & Ecology of Red Mat Systems (GERMS)
Summer Research Program**

Red Layer Microbial Observatory (RLMO)
National Science Foundation
Western Oregon University
Yellowstone National Park



Team Role/Activity - Site Manager

Remember - Your Role Is Photography and Monitoring, NOT Recording Data

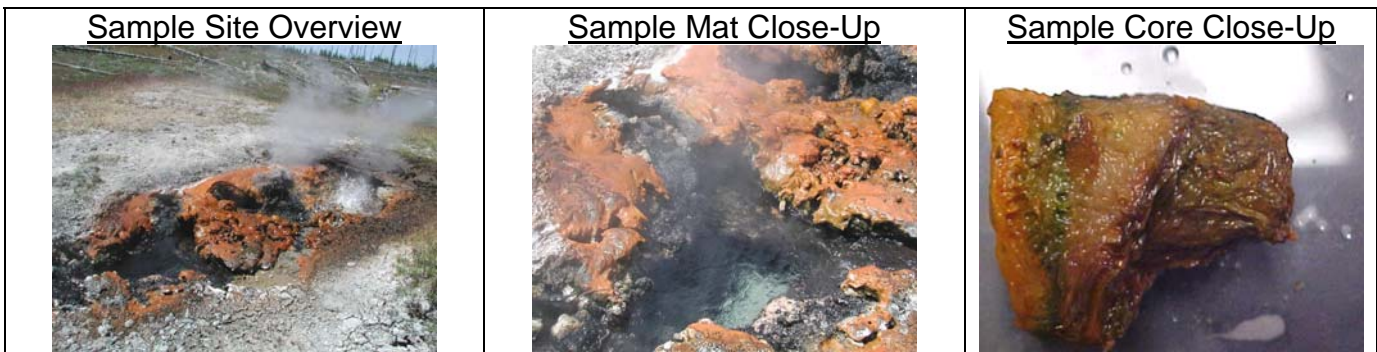
Site Photography - PLEASE Shoot All Horizontal

Comprehensive site overview – shows community and nearby regional surroundings

Mat close-up – details area where cores are taken, and preferably shows source

Mat core close-up – well-focused picture of mat core(s), detailing red layer

Water collection - well-focused of water collection, detailing location



Activity Photography - PLEASE Shoot All Horizontal

Four basic images are required (see below); with an additional 4 of your choosing required

pH, water and/or mat - shows actual data collection and interpretation (i.e. against legend)

temperature, water and/or mat - shows data collection

dissection - try to shoot both process and close-up/well-focused of final products (for color)

water chemistry - please avoid shooting each test... try to capture concepts, big picture

Picture Management and Templates

Pictures will be graded for quality; all pictures must be HORIZONTAL, downsized to 3" wide.

Please download your images to the computer back at the hotel – and save your disks

Make sure that you download all images to hotel computer and rename using simple terms

All templates available on hotel computer; you should load images the day you took them

Priority time for site managers on assigned day; after trip, on-line for completion at home

Universal Template

Sites will be - Imperial, Upper Hillside, Lower Hillside, Fairy Source, Fairy Rods

SITE DATA AND IMAGES

Describe Assigned Site	Insert Whole Site Image
Describe Mat – include temperature and pH	Insert Mat Close-Up Image
Describe core layers etc.	Insert Core Close-Up Image
Describe Water – include temperature and pH	Insert Water Collection Image

ACTIVITY IMAGES

Describe pH methods	pH Methods Image
Describe temperature methods	Temperature Image
Describe dissection methods	Dissection Methods Image
Describe water chemistry methods	Water Chemistry Methods Image
Your choice - Describe	Your Choice Image
Your choice - Describe	Your Choice Image
Your choice - Describe	Your Choice Image
Your choice - Describe	Your Choice Image

WATER CHEMISTRY

	Data (what are units?)
Bromine	
Chlorine	
Chromium	
Molybdenum	
Nitrate	
Nitrite	
Sulfate	
Sulfide	
Copper	
Iron	
Manganese	