

**INSTITUTIONAL BIOSAFETY COMMITTEE
SAN JOSÉ STATE UNIVERSITY
BIOLOGICAL USE AUTHORIZATION APPLICATION**

**Attachment D.
Environmental Sample Collection**

Check all that apply:
<input checked="" type="checkbox"/> We will be collecting water samples
<input type="checkbox"/> We will be collecting soil samples
<input type="checkbox"/> We will be collecting air samples
<input type="checkbox"/> We will be collecting surface samples
<input checked="" type="checkbox"/> We will be collecting samples from an off-campus location
<input type="checkbox"/> We will be collecting samples from locations that may contain human pathogens

Environmental Sample Information	
Sample Type	Characterization
<input checked="" type="checkbox"/> Water	<p>Source (Provide Name of body of water & Location): Alum Rock Park in San Jose, mineral springs area, in stone grotto</p> <p>Number of Samples: 1 Plastic Bottle Volume per Sample: 250ml Total Volume Collected: 250ml</p> <p>Is this body of water prone to closures due to presence of human pathogens? (Y/N): N</p> <p>Is this body of water located near agriculture/farming? (Y/N): N</p> <p>If yes, what type of farm? (i.e., strawberry fields, cattle ranch):</p> <p>Describe the:</p> <ol style="list-style-type: none"> 1. Collection procedures, including materials used to collect samples 2. Transportation of samples (consider containment, disposal, and disinfection procedures) 3. Location of sample analysis 4. Analytical procedures

Water is collected in a 250ml plastic bottle. Gloves are worn to collect the sample. The bottle is held up to the spring inside the stone grotto. The water is collected in the plastic bottle and wiped dry with a kimwipe. The bottle of water sample is placed in a plastic secondary containment bin and the kimwipes and used gloves are placed in a bag. The materials are brought back to San Jose State University. The gloves and kimwipes are disposed of as biohazardous solid waste (decontaminated by department technical staff). The Water sample is aliquoted in plastic jars and given to the Micro-101 general microbiology lab. The students use the water sample to make wet mounts and examine the water sample under the microscope. The slides for the wet mount are decontaminated in 3% DC Gold disinfectant. All the aliquoted plastic containers are disposed of as biohazardous solid waste (decontaminated by department technical staff). All the collection bottles are decontaminated in the autoclave and reused.

<input type="checkbox"/> Soil	<p>Source (Provide Location):</p> <p>Number of Samples: Volume per Sample: Total Volume Collected:</p> <p>Is this site prone to closures due to presence of human pathogens? (Y/N):</p> <p>Is this site located near agriculture/farming? (Y/N):</p> <p> If yes, what type of farm? (i.e., strawberry fields, cattle ranch):</p> <p>Describe the:</p> <ol style="list-style-type: none"> 1. Collection procedures, including materials used to collect samples 2. Transportation of samples (consider containment, disposal, and disinfection procedures) 3. Location of sample analysis 4. Analytical procedures
<input type="checkbox"/> Air	<p>Source (Provide Location):</p> <p>Total Volume/Amount Collected: Volume/Amount per Sample:</p> <p>Describe the:</p> <ol style="list-style-type: none"> 1. Collection procedures, including materials used to collect samples 2. Transportation of samples (consider containment, disposal, and disinfection procedures) 3. Location of sample analysis 4. Analytical procedures
<input type="checkbox"/> Surface	<p>Source (Location, Surface Type):</p> <p>Sampling Dimensions:</p> <p>Is this surface expected to harbor human pathogens? (Y/N):</p> <p>Describe the:</p> <ol style="list-style-type: none"> 1. Collection procedures, including materials used to collect samples 2. Transportation of samples (consider containment, disposal, and disinfection procedures) 3. Location of sample analysis 4. Analytical procedures

Environmental Sample Expected Microbial Population

If there is an expected microbial population in the environmental sample that will be isolated, tested for, or cultured, complete [Attachment B](#)

Sample Type	Source (Location, Item)	Bacteria expected (Y/N)	Virus expected (Y/N)	Fungi expected (Y/N)	Parasites expected (Y/N)	If other hazards, list below.	Will these be cultured? (Y/N)
Water Sample	Alum Rock Park	Y Beggiatoa alba	N	N	N	N	N

<input type="checkbox"/> N/A	Field Locations			
Location	Agent/Material	Procedures (i.e., trapping, handling, analysis, storage)	Shared facility? (Y/N)	Proposed BSL
Alum Rock Park, San Jose	Beggiatoa alba	handling	N	1