

SITE NAME/LOCATION: \_\_\_\_\_ North \_\_\_\_\_ West \_\_\_\_\_

Observers: \_\_\_\_\_

Date: \_\_\_\_\_ Time in \_\_\_\_\_ Time out \_\_\_\_\_

You will receive a map of your field site to conduct your data collection. There are 5 trees that you are to use for this exercise and they are marked. The SAME person should count the lichen cover for ALL aspects of all trees. The GPS coordinates should be in decimal degrees.

Tree #	Spp	% canopy cover	DBH (cm)	% Lichen Cover				Air quality score	Photo Y/N	Bark sample Y/N	pH	GPS coordinates	
				North	East	South	West					North	West
1													
2													
3													
4													
5													

Photos- take in this order	Y/N
1. Dominant Lichen	
2. Canopy (N side)	
3. %Lichen North	
4. %Lichen East	
5. %Lichen South	
6. %Lichen West	
7. tree ID	









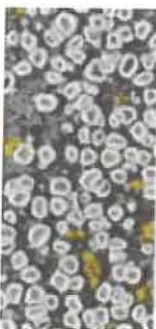







Lichen Type	Air quality	Score (air quality)
No lichens present	very poor	1
Crustose only	poor	3
Folios present; no fruticose	moderate to good	6
Fruticose present	good	9
L. pulmonaria or Teloschistes exilis present; fruticose lichens very sensitive to pollution	very high	10

Comments/Notes:

The same person should be used to determine the number of paces from tree 1 to tree 2 to tree 3, etc. They will determine the aspect using the handheld compass. Then they will count off the paces to the next tree to the recorder.

Tree #	Species	Bearing	# Paces
1		Starting point	0
2			
3			
4			
5			

## SOME LICHENS INDICATIVE OF DIFFERENT LEVELS OF POLLUTION

HIGHLY POLLUTED	MODERATELY POLLUTED	SLIGHTLY POLLUTED	MINIMAL OR NO POLLUTION
<p><i>YPOGYMNA PHYSCIDES</i></p> 	<p><i>EVERNIA PRINASTRI</i></p> 	<p><i>PARMELIA CAPERATA</i></p> 	<p><i>USNEA SUBFLORIDANA</i></p> 
<p><i>MATHORIA PARIETINA</i></p> 	<p><i>FORMICHELLA AMBIGUA</i></p> 	<p><i>GRAPHIS SCRIPTA</i></p> 	<p><i>PARMELIA PERLATA</i></p> 
<p><i>ECIDARIA DISPERSA</i></p> 	<p><i>ECIDARIA CHLOROTERA</i></p> 	<p><i>ERYTHRIA FLUDESCENS</i></p> 	<p><i>OCCELIA PUNREA</i></p> 
<p><i>IPLODIA CANESCENS</i></p> 	<p><i>RAMALLOIA FARMACEA</i></p> 	<p><i>PHYSOCOMIA DISTORTA</i></p> 	<p><i>RAMALLOIA FARMACEA</i></p> 

Air pollution lichen indicator species (source [Biomimicry KTH](#))