

MLK holiday project  
**ECO ADVENTURE HUNT**  
issued Wed. Jan 14  
due Wed. Jan 21

As a replacement to your take home mid-term exam, I thought it better to actually have you **SEE** the stuff that we talk about in lectures. This is your opportunity to have first hand access to some sustainable building projects in Portland. This is worth 50 pts. to each team member, but it must be equal amongst you. (*meaning one person cannot do all the work and the other 3 receive the credit*).

**Task:** This is a team project. You will work with a team of 4 to complete this project. You will have one week to complete. The holiday Jan 19 may be a good time to conduct your hunt. (*no excuses, no late projects accepted*)

**Objective:** You have 8 sites to visit, you need to answer the following questions and put into final format to turn in on the date above. The questions cannot be answered unless you actually go there, so you must see, you must ask and search these questions out. Designate a task, be effective with your time, do it all together, or do it apart, have a final meeting and put it all back together. This is your option.

**Final format:** You may include photos in your final project. Include any gathered information (brochures, samples, etc.). You must have all of the questions answered. **It may all be posted on a poster board, or in paper format.**

**Question 1 - Tamarack Project 2323 se tamarack ave**

This is the home of your teacher, and an experiment in progress. There is a load-bearing strawbale structure in the backyard that serves as a resource library. The roof collects rainwater for a series of rainbarrels as well as filling the pond. The garage is a SB infill with recycled tire flooring, bamboo floors, hydronic heating, and on the roof has a solar panel where all of the hot water at the house is heated first with a natural gas backup. This roof is also used to collect rainwater for the garden. In the front yard is a native berry garden built of 500 recycled wine bottles (no we didn't drink them all!). These projects were all student built as workshops. There is a yellow mailbox on the porch, stop by and pick up a card that is in the box for extra bonus points also Answer the following question: **At the Tamarack Project there are a series of rainwater collection barrels, how many are there total?**

**Question 2 - People's Food coop 3029 se 21<sup>st</sup> Avenue**

The food coop is member owned that only carries sustainable products. The produce is organic and other items contain only healthy ingredients that don't hurt the environment either in the making or use of. Check out the building as it is

the first commercial cob structure in portland, has passive solar heating, hydronic floors, bottle walls, a heat exchange system that pipes water down 300 feet in the courtyard and keeps the building hot and cool when needed. It has a solar chimney for evaporative cooling during summer months.

People's has a community room upstairs that members built during the reconstruction. What design is on the floor of the room? name the different species?

**Question 3 - Environmental Building Supply 819 se Taylor**

EBS is an eco-green building supply company. Name 3 products that are alternatives to stuff (products) per se sold at Home Depot. Bring back a sample of any product that you would like to share with the class.

**Question 4 - Hawthorne Hostel 3031 se Hawthorne blvd.**

This hostel has an ecoroof made of earth and local plants. What is the reason WHY they have the ecoroof? Draw or take a photo and show where the roof is located.

**Question 5 - Pearl District PV System Brewery Block Bldg. #4**

The photovoltaic panels provide 22 kw of solar energy to the utility grid of portland which is a renewable energy source. Where are the panels located? How are they integrated into the design? Provide a drawings or photo.

**Question 6 - Share-It-Square se Sherrett and 9<sup>th</sup> streets**

The square was created by City Repair which has 4 major corners with special structures on each facing a central street mural. What is on each corner? and What is the mural in the center?

**Question 7 - DaVinci Middle School 2508 ne Everett**

The middle school has an aquaculture and rainwater collection system that the students built and maintain. How many ponds are there? and what is in the ponds? (photo op) for more info: <http://www.keepersofthewaters.org/davinci.cfm>

**Question 8 - EcoTrust Building 721 nw Ninth**

The ecotrust building is a commercial venture that includes greenminded tenants in a recycled building. What main city government office is located on the 3<sup>rd</sup> floor that could help change conventional architecture? Bring back a brochure from the office. Stop in and say hello to Greg Acker or Mike O'Brien, tell them you are from my class. p.s. the portland trolley stops in front of this building