



TOFINO BOTANICAL GARDENS

Gateway to the Clayoquot Sound UNESCO Biosphere Reserve

Curtis Cook
Executive Director
Clayoquot Biosphere Trust
Box 67
Tofino BC V0R 2Z0

October 2, 2009

Re: Wickaninnish-Abousaht-Hesquiaht Grade 6 Sustainability Camp 2009

Dear Mr. Cook,

We are very pleased to provide our final documentation about the June 10-12, 2009 "Sustainability Camp" held at Tofino Botanical Gardens.

All Grade 6 students at in Clayoquot Sound were invited to attend the camp. Because there are no Grade 6 students at Hor Springs Elementary School, this year's camp consisted of the Wickaninnish Community School and Maaqtusiis Elementary School Grade 6 students. Because both classes were small, and to reduce costs, we combined these classes into one camp (with permission of the teachers).

In total, 25 students and three teacher/chaperones were able to come to Sustainability Camp, along with several parents who contributed to dinner preparations and night time supervision. With the three camp leaders (from the Raincoast Education Society) on hand all the time, the high adult to student ratio resulted in a rich and rewarding experience for both the leaders and students.

We are proud to say that in 2009 we provided an opportunity for every Grade 6 student in Clayoquot Sound to attend Sustainability Camp, and we hope to continue this in upcoming years so that all students in Clayoquot Sound have the opportunity to learn and practice the principles of community and environmental sustainability and stewardship.

We are extremely thankful to the Clayoquot Biosphere Trust for recognizing the importance of educational endeavours such as Sustainability Camp, and for providing funding for this program, without which we could not have conducted this camp.

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Please find attached:

1. A detailed itinerary of the Sustainability Camp program, which provides information on the curriculum units used in the camp.
2. A list of all the students, teachers, chaperones, and staff members involved in delivering this year's Sustainability Camp.
3. A copy of the Westerly News article written on behalf of the Raincoast Education Society by a Tofino Botanical Garden summer student who was a Sustainability Camp leader.
4. A selection of photos from the camp (*please note that while the Clayoquot Biosphere Trust is welcome to use these photos, we did not obtain photo releases from children's parents which would allow them to be used in any commercial manner. We also kindly request that any photo used in online or hard copy publications be credited to the Raincoast Education Society*)

Should you have any questions, please do not hesitate to contact me [REDACTED]

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Student attendance at 2009 Sustainability Camp

Wickaninnish Community School

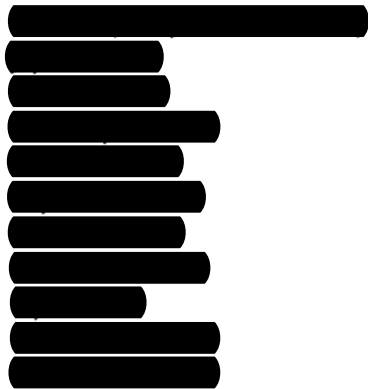
Total = 14 kids



Teacher: Melanie Morris

Maaqtusiis Elementary School

Total = 11



Teacher: Leonard Dube

Sustainability Camp Itinerary

Pre Camp Prep:

- Contact potential participants for Sustainability Camp Panel
- Contact teachers about: class visits, what to prepare the students for, allergy info, splitting up problem kids, chaperones, what the teachers role will be during the Camp
- Split class into 2-3 groups depending on class size. It was found that the students listen and participate better when in smaller groups. Also important to try to split-up cliques and "trouble-makers."
- Assign a Group Leader to each group (Raincoast summer students or staff).
- Create Packing List, Letter and Reduced Schedule to send home to parents. Strongly emphasize that all food will be provided and the students will not need money or extra food. Have them know they are not allowed to bring junk food and it will be confiscated if it is brought along.

Tuesday June 9th

Time	Activity	Supplies
9:30am	CLASS ARRIVES AT BOTANICAL GARDENS/ FIELD STATION <ul style="list-style-type: none"> • Store gear in Mud Room • Meet in Classroom <ul style="list-style-type: none"> • Introduce ourselves • What does the Tofino Botanical Gardens and Raincoast Education Society do? • Why are they here/ what to expect • Nature stamp system: Stamp in journal is rewarded for good deeds/helping out. Students write and agree to their own Community Pledge (10 min)	
10:15am	Team Building Games <ul style="list-style-type: none"> • Circle Hand Tapping- done on the dining area tables for centering and focusing • Break into 3 groups with team leaders • Team Names and Name Game/nature names • Explanations for the following games can be found in the Sustainability Activity Book: Wind in the Willows, Sitting Circle, Electric Fence 	
11:00am	Snack	
11:20am	SUSTAINABILITY BRAINSTORM and Global Warming 101 In journals: word, ideas or images they think of when they hear sustainable <ul style="list-style-type: none"> • Sustainability and why it's important • Global Warming 101 (see doc in Sustainability folder) • Make the Field Station More Sustainable... Share ideas in classroom (in 3 groups) 25 min • Calculate Eco-Footprint: do on computer if time 	

	<ul style="list-style-type: none"> • Spaceship Earth (30 min) • When the Lights Go Out *if time (pg 108 of Green Classroom) 	
1:00pm	<p>Lunch</p> <p>We attempted to source where each food component had to travel from. We had a map where students placed tacks on the places where each food item comes from. We wanted to use this map in order to calculate our total food miles (eco-footprint) at the end of the 3 days.</p>	
2:00pm	<p>Games</p> <ul style="list-style-type: none"> • Choose games that don't require much space while guests are visiting the Gardens. They really liked playing prisoner tag more than any other game. 	
2:45pm	<p>Pollution Solutions Story Demonstration & Games</p> <ul style="list-style-type: none"> • Who polluted the Potomac (Kennedy River)? Pg 39 of the Sustainability Camp Book 30 min • Water Conservation • Pacific Garbage gyre images and talk • Snack • Split into groups for Community Clean-up 2 hrs 	
5:30ish	<p>Journaling Activities and Games in the Garden</p> <ul style="list-style-type: none"> • Split into groups and read Chief Seattle poem or do role play/Dilemma Scenarios 	
6:30pm	Dinner	
7:30pm	"Free Time"	

.../over

Wednesday June 10th

Time	Activity	Supplies
8:00am	Breakfast	-Cereal and Milk -Toast -Peanut Butter and Jam -Fruit
9:00am	Scavenger Hunts <ul style="list-style-type: none"> Kids were in 3 groups and made scavenger hunts for one another; hunts done in Gardens. 	-paper -pens and pencils -cameras
10:00am	Mudflats <ul style="list-style-type: none"> Walk to the Hatchery and back. Ralph Crombie to speak. Creatures of the Mudflats, why they are important/unique to this area and need to be protected Connection between mudflats and Fossil Fuels Silent game (Journaling, experiences and drawings) 	-shovels -map of Mudflats
12:30	Lunch	Grilled Cheese Tomato Soup Veggie Sticks
1:15	Composting with Leah Austin <ul style="list-style-type: none"> Kids make their own composter and compost lunch scraps (5 composters) Go outside to look at Gardens' compost 	-5 rubber totes -pound of red wiggler worms -newspaper -drill -food scraps
2:30ish	Renewable Energy <ul style="list-style-type: none"> Brief talk about forms of renewable energy and difference between renewable and non-renewable Solar Powered Cars with John Platineus <ul style="list-style-type: none"> John showed them the solar panel and charged batteries for remote control cars with it; the kids then had races, along with quiz questions based on what they had learnt John is GREAT with the kids. 	-solar panel at Gardens -quiz questions -pylons for car races -John
4:00	Free Time or Solar Pizza Box Ovens <ul style="list-style-type: none"> Those who wanted to could make pizza box ovens and bake nachos in them Those who didn't participate had nachos and salsa for snack and free time 	-a few pizza boxes -black paper -cellophane -tin foil -nachos and cheese
4:30	Guests with electric cars:	-contact guests to bring

	<ul style="list-style-type: none"> • Spencer Baird came by to show his car • Warren Rudd was supposed to come but truck broke down 	vehicles
5:30	Journaling and Games: <ul style="list-style-type: none"> • Freeze Skit Scenarios • Prisoner Tag 	
6:30	Dinner around campfire	-hotdogs -potato salad -s'mores
8:00	Free Time	

Thursday June 11th

Time	Activity	Supplies
8:00am	BREAKFAST <ul style="list-style-type: none"> • Pack up Gear – place in mudroom 	-Cereal -Toast -Fruit
9:15	Green Cleaning <ul style="list-style-type: none"> • Brief talk about some toxic substances found in most cleaning supplies; why they are bad for the environment • Fill squirt bottles with homemade cleaning agent 	-15 Squirt Bottles -Vinegar -Lemons and Grapefruits -Baking Soda -Water
10:15	Games at Mackenzie Beach <ul style="list-style-type: none"> • Fun relay races • Stealing Sticks • Snack 	-props for relay races -fruit and granola bars
11:30	Question Preparation/ Practice for Community Leaders <ul style="list-style-type: none"> • Can write question in journals. 	
12:00	Lunch	Sandwiches Potato Salad Veggie Sticks
12:30-1:30	Community Leader Panel Question and Discussion period:	Call and confirm with leaders
1:30	Completion Certificates and Clean-up <ul style="list-style-type: none"> • Given in front of panel to make it more like a ceremony 	-certificates
2:10	Pick-up by Tofino Bus	

List of 2009 Sustainability Camp Panel Participants

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Westerly News Article Published June 18, 2009

The Tofino Botanical Gardens and The Raincoast Education Society recently wrapped up their third annual Sustainability Camp on Thursday June 11th 2009. This year, the Camp was comprised of 27 grade six students from Ahousaht's Maaqtusiis Elementary School and Tofino's Wickaninnish Elementary School. The Camp started on the morning of June 9th with non-stop classroom and outdoor activities until the afternoon of June 11th.

Although some instruction took place inside the Clayoquot Field Station, the majority of Sustainability Camp took place outside in the Tofino Botanical Gardens and on local Tofino beaches. Kim Johnston, one of the Sustainability Camp coordinators explained, "Kids were invited to make solar nacho ovens; make toxic-free cleaning products; build their own vermiculture (worm compost) bins; participate in garbage clean ups; create and carry out a naturalist scavenger hunt in the Tofino Botanical Gardens; engage in tidal explorations on Chesterman and Mackenzie Beaches; as well hike and play on the Tofino Mudflats." Johnston further explained why activities such as Sustainability Camp are important for child development and conservation. According to renowned environmental author Richard Louv, "The outdoor experiences of children are essential for the survival of conservation. And so the truth is that the human child in nature may be the most important indicator species of future sustainability". With this in mind, the Raincoast Education Society and Tofino Botanical Gardens hope that Sustainability Camp fosters not only better sustainability practices, but also a greater love for nature. To do this, students were encouraged to play outside in nature whenever they had free time, and they took full advantage of the opportunity to play stealing sticks, relay races, prisoner tag, and other team building activities.

Guest speakers Leah Austin, John Platenius, and Spencer Baird visited the Camp to teach the kids about vermiculture (composting with worms), solar energy, and electric cars (respectively). During these sessions the students were encouraged to test their knowledge, ask questions, and be as creative as possible. In addition to the guest speakers, nine members of the community volunteered their time to sit on the "Sustainability Panel" on the final day of the camp. Students took turns asking the Panel members some of the questions they been thinking about during their three days of learning and activities. Sayeh Martin of Esowista asked "What would do if we ran out of water again?" and Cosmo Louie of Ahousaht asked municipal staff "Would you put low flush toilet and biodegradable soap in washrooms?" In answer to Cosmo's question, several Panel members explained about Tofino's low-flush toilet exchange program, but Braden Smith, Tofino's planner, admitted that he wasn't sure whether public washrooms used biodegradable soap and committed to ensuring that the District of Tofino office washrooms and public washrooms began to use biodegradable soap. Curtis Cook, Executive Director of the Clayoquot Biosphere Trust, also explained to the students with questions about alternative energy sources (such as sidewalks that generate power with the pressure from human steps) that "There's often a cost with coming up with new ideas, even though they're innovative and creative...when you invest that innovation and creativity in saving energy – using less – it might end up being better." While Panel members usually had concrete answers and examples, sometimes they answered with a simple "That's a great question and I don't know."

SUSTAINABILITY CAMP FINANCIALS 2009

Revenue

District of Tofino	\$1,000.00
Clayoquot Biosphere Trust	\$3,000.00
Uu-a-thluk	\$6,000.00
TOTAL	\$10,000.00

Expenses

Accommodation	\$2,339.60
Meals	\$720.27
Transportation	\$262.50
Program Materials	\$313.14
Interpreter Pay	\$3,900.00
Program Coordinator	\$1,500.00
Administration	\$1,000.00
TOTAL	\$10,035.51

