



100 Valleys

A Quarterly Publication for the Supporters of Umpqua Watersheds, Inc

An Oregon 501(c)(3) Non-Profit

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The Umpqua Watersheds 17th Annual Banquet and Silent Auction



It is officially official! Mark the date on your new calendar now because you're going to be busy on Saturday, March 9th from 5:30 -10:00 PM. The annual UW banquet will be happening! We are back at UCC once again and since the date is close to St. Patrick's

Day, this year's menu will feature foods in the Irish tradition! Corned beef and cabbage for the omnivores and a special vegetarian Irish stew for those not so inclined. Red potatoes, veggies, salad, and dessert cobblers are also on the menu. River Rush Catering (UCC) will be doing the honors with the food and service.

Our keynote speaker this year will have a decidedly local flair too. Jerry Rust, a graduate of Glide High School, former Lane County Commissioner, and founding member and 1st president of the Hoedads, will be at the podium! Given his local ties, this will most definitely be an evening to remember! Tickets are \$25 in advance and can be purchased at The Harvest Store in Winston; While Away Books in Roseburg; at the UW office in Roseburg; and from any board member. Tickets will be \$30 at the door.

The banquet is an opportunity for many of our local artists and artisans to show off their wares and donate items for the silent auction. It is also a great opportunity for those of us that are artistically challenged (guilty!) to "re-gift" valuable items that we may have received and never used. Please contact the UW office or stop by with whatever you have to offer. It will be greatly appreciated and put to good use!

From the President

Dear Friends of Umpqua Watersheds:

It's been a very eventful year at Umpqua Watersheds, and the close of 2012 finds our ship afloat and on course, and even using the winds of change to fill its sails. Here's a nutshell of our adventures over the last year:

Umpqua Watersheds' Conservation Program continues to partner with Oregon Wild and Environment Oregon to champion the **Crater Lake Wilderness** campaign. We were recently awarded a Patagonia grant to help us with that effort, and have contracted with ECONorthwest economists to research the direct and indirect economic benefits of wilderness. A report on their preliminary findings was presented by economist Kristin Lee during a "summit" organized by the Wild on Wilderness (WOW) committee on January 27 at the new Umpqua Business Center.

In addition to our important and ongoing conservation work, we have increased our emphasis on our education and restoration programs. We continue to believe that getting the public (especially young people) directly involved in understanding and restoring ecosystems will be the key to maintaining a healthy environment that ultimately sustains a healthy economy.

With that outcome in mind, our Education Program recently hired a new VISTA/AmeriCorps member, **Roland Wang**, who brings with him a Master's Degree in Water Resources from the University of Wisconsin. He will help to build upon the great programs for K-12 students developed by his predecessor, Mike Rooney. Hundreds of area kids benefitted from our Education Program's activities in 2012.

Our Restoration Program is breaking new ground in a collaborative effort to develop the Elk Creek Watershed Action Plan for the 54,000 acre watershed in the Tiller Ranger District. Umpqua Watersheds is working closely with the Umpqua National Forest, South Umpqua Rural Community Partnership, Lomakatsi Restoration Project, Phoenix School, Oregon Youth Conservation Corp, Umpqua Community College, Umpqua Bio-alternatives

Our Mission: *Dedicated to the protection and restoration of the ecosystems of the Umpqua Watershed and beyond through training, education and advocacy.*

Cooperative and others to find ways to use the low value products of restoration forestry to produce high value, locally made products.

We are excited about an innovative new project that combines elements of education, restoration and conservation. Our new Director of Operations, **Kasey Hovik**, was instrumental in securing a federal Title II RAC grant to hire and train a crew of six youth (17-24) to do biological surveys. They will then be supervised and paid through a partnership with Phoenix School and Oregon Youth Conservation Corp to work on the Elk Creek Project under the guidance of Umpqua National Forest and Umpqua Community College mentors. This past year has also been one of change for our organization. To meet the needs of his family in Corvallis, our esteemed Executive Director, Randy Rasmussen, was unable to continue to work for us, and regretfully resigned. Although this was a significant disappointment, it allowed us to take a step back, look at the ecological and educational work that needs to be done on the Umpqua, and rethink our relationships with foundations and with our members.

Despite a highly professional staff and great effort by a hard-working Board of Directors, we've discovered that grants for staff and overhead have diminished dramatically, and the stress of not having a reliable funding stream to meet monthly payrolls weighed continually on our Board members, who often were among the largest financial donors to UW. We knew that we needed to adopt a new model more aligned to this new reality.

But while grants to sustain organizations are becoming rarer, grants for innovative projects (such as the ones mentioned above) are still available, especially if they are collaborative, provide opportunities for youth, and restore degraded habitats -- arenas in which we have strong programs and recent successes. We believe Umpqua Watersheds is strategically positioned to build on our success in getting grants that are restricted to such projects. But they WON'T pay the rent, utility bills or an office manager's paycheck. That's why your contribution is so critical to our organization.

We need our local members to cover our office and a manager so that our volunteer Board can continue its success in managing programs and funding projects. If you want an all-volunteer staff to send out bi-monthly "Watershed Moments" emails and a quarterly newsletter, make a donation in the double digits. If you also want someone to pick up the phone when you call our office during limited hours, and a VISTA member to help

with education projects, make a three digit donation. If you want a full-time professional staff of 2 or 3 and an additional AmeriCorps member to make more dramatic strides in acting locally while partnering with regional and national organizations, go to four digits. It's that simple.

While the past year has been one of success and change for our organization, we are confident that the careful strategic planning we've done, and the energy and dedication of our Board and volunteers will bring our current projects to productive conclusions and allow us to take advantage of the opportunities we see before us. But we need everyone's help -- if you can't give as much money as you'd like, please think about volunteering at the next event or donating items to the auction at our **Annual Banquet on March 9th**. If you want to discuss any other ways you can help, please contact us and we will meet with you at your convenience. Or make a point to stop by the office -- we want to hear from you!

We are all Umpqua Watersheds!

Ken Carloni
President, Umpqua Watersheds, Inc.

New Trails For Crater Lake

As some readers know, members of UW have started planning for a trail from Crater Lake to the Pacific Ocean at Cape Blanco. Beginning at Lightning Springs Trail on the Caldera's west rim, it will use a number of existing trails and go through existing and proposed wilderness areas along the way. Some of these are : Rogue-Umpqua Divide Wilderness, Donegan Prairie, Rogue River Trail, Copper Canyon and Grassy Knob Wilderness. Affected agencies and National Park Staff are being consulted.

At the same time a group from Klamath Falls, The Klamath Trail Alliance, is working on a 200 mile trail from the Klamath Lake area to Crater Lake N.P.

Lastly, a group of hiking enthusiasts from California have been working for years on what they call the Coast-Cascade Trail which will link Crater Lake with the Northern California Coast. In their words: "When completed the Coast-Cascade Trail will be the only trail on the western seaboard of the United States that connects Pacific Ocean beaches with the Cascade-Sierra cordillera". They have only eight miles of the trail left to complete. For more information Google "Coast Cascade Trail". So hikers, start to plan your treks. They will all be superb outings in some of the most beautiful country in our nation. —Bob Allen

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Yew Creek Invitation

Early in 2010, Ken and Jenny Carloni partnered with Mark Eason to buy 380 beautiful acres of forest and meadow from DR Johnson Lumber Co. The land is west of Riddle adjacent to the “Ranch” community and bordering a magnificent BLM stand of cathedral old growth known locally as “The Magic Forest”. Our plan is to invite conservation-minded folks to join us to do something special there.

The land is currently held by a corporation we formed (the Yew Creek Company, LLC), but our plan is to transfer ownership to a non-profit that we’ve also incorporated -- the Yew Creek Land Alliance, Inc. A small group of friends joined us to develop the following **mission** for the YCLA: “To conserve and restore historic habitats and native biodiversity while generating high quality goods and ecological services from Alliance lands. These activities will create unique opportunities for research, training, education, and recreation for participants of all ages.”

Although the ultimate corporate structure of the YCLA will be determined by early partners, we are looking seriously at a type of non-profit known as a “Community Land Trust”. Our vision is that members of the trust will become the managers of the land. We recently filed a Stewardship Management Plan with the Oregon Dept. of Forestry that incorporates the overall mission into our specific management goals. The plans call for significant thinning in several stands to achieve restoration goals.

We think the opportunities for innovative use of small diameter timber and other non-traditional forest products (e.g. fungi, native wildflower and grass seed, ferns and greenery, biochar, etc.), along with a chance to demonstrate a stewardship ethic that restores the land while fostering educational and entrepreneurial enterprises, will attract the kind of energy and creativity needed to sustain a vibrant and innovative community.

If this sounds like an opportunity you’d be interested in learning more about, email Ken at ken.carloni@gmail.com and we’ll send you more details.

Hello from your AmeriCorps VISTA!

Hi everyone! My name is Roland Wang. I'm the new AmeriCorps VISTA member with Umpqua Watersheds. I moved to Roseburg from Chicago where I had been living for six months after completing my Master's last May in Water Resources Management at the University of Wisconsin-Madison. I received my Bachelor's from Cornell University in 2009 where I double majored in Natural Resources and Development Sociology. Prior to university, I was living in Hong Kong.

This is my second month on the job – having started in December – and I'm excited to be working with Umpqua Watersheds to help develop their environmental educational programs. I'll be continuing with the activities developed by last year's VISTA, Mike Rooney, in addition to creating and implementing my own. I will be partnering with various organizations in Douglas

County to develop activities for K-12 students in schools in the county where the Friday school hours are shorter.

My activities will involve experiential-based learning that will have students acquire technical skills while immersed outdoors – skills such as wild-

life, plant, and aquatic survey techniques; species identification; and invasive species management. In addition, I will be implementing an online data collection site and student designed zines that will give students a means to publish their experiences as well as help connect students across Douglas County.

My VISTA position will be for one year, until the end of November, after which I hope to serve the Peace Corps in their environmental program. In the meantime, I look forward to meeting as many of you during my time at Umpqua Watersheds. Drop by the office or send me an email (roland@umpqua-watersheds.org).



“BOTANY BY BUS” A SUCCESS!

“BOT203A was the most amazing experience (both educational and recreational)... I will never look at a flower the same again. All in all, the time and money spent on this college class was well worth every cent and every minute. I look forward to participating in an “EDUCATIONAL” adventure like this again.”

“I’ve never enjoyed a college course more. The opportunity to see the state of Oregon and northern California by bus was unforgettable... I learned sooooo much! [The tortoise experience is worth every penny. Within hours I felt the connections building among everyone. By the end of the week we were family!”

“This class provided a unique opportunity to study a wide variety of plants growing in their native habitats. The relaxed, field-based environment, and ready access to the instructor, made learning comfortable for me as an older-than-average, nontraditional college student.”

Student feedback from “Field Botany of Southwest Oregon and Northern California”.

It has been my experience, both as a student and a teacher, that learning in the field affords a vastly richer experience than the traditional classroom can provide. I love watching the lights go on and the learning curve soar when students are amazed and inspired by their surroundings, so I try to provide them with as many field opportunities as I can.

I also have ridden the waves of technological innovation that have swept over education in the last few decades -- never has information been so easily accessed and transferred. But as effective as the web is at bringing information and communications to a flat screen near you, online learning simply cannot elicit the exhilaration of discovering new and unique ecosystems.

I first experienced Green Tortoise Adventure Tours in 1998 when my wife, Jenny, and I traveled to Baja on one of their innovative “sleeper coaches”. We were impressed with the comfort of the coach, the professionalism of the drivers, the tasty meals and the camaraderie that naturally emerges among fellow travelers. I became convinced that bus travel as re-designed by the “Tortoise” would be a great way to bring students into the wilds without depriving them of basic comforts.

After years of planning with my colleagues at Umpqua Community College and with the kind and patient folks at the Green Tortoise, we put together what we hoped would be an effective and unforgettable learning adventure. I designed a hybrid class -- partly delivered online and part-

ly during a 6 day bus tour of Southwestern Oregon and Northern California -- that would meld the best aspects of web-based learning with the authenticity that comes with immersion in the natural world. A fully accredited, college-level science course -- *Field Botany of Southwest Oregon and Northern California* (BOT 203A) -- was approved by UCC’s Instructional Council early in 2012.

From July 17 to 22, 2012 the maiden voyage of the field tour took an intrepid group of experts, students and community members on an inspiring journey through one of the most botanically diverse regions of the world. The tour departed from **Umpqua Community College** on Tuesday and followed the wild and scenic **North Umpqua River** on our way to explore the spectacular alpine meadows and stunning scenery of **Crater Lake National Park**.

Evocative ancient rock art and convoluted lava tubes greeted us at **Lava Beds National Monument** where we had our first dinner at **Captain Jack’s Stronghold**. The stark and dramatic landscape harbored tenacious desert flowers and the spirit of the Modoc who made their last



stand there.

On Wednesday, we explored the marsh flora of **Medicine Lake State Park**, grabbed a quick swim, and continued on to observe the plants clinging to the thundering falls at **McArthur-Burney Falls State Park**. Students then got a first-hand look at over 4 decades of impressive riparian restoration work done by Paul Utz and his partners at **Rising River Ranch**. Thursday was spent marveling at

the interplay between violent geologic history and spectacular flora as we hiked the trails and meadows of **Las-sen Volcanic National Park**.

We then continued on to the crystal waters and riparian flora of the wild and scenic **Trinity River**, had our dinner on the beach at **Trinidad State Beach** and watched the sun set among the wildflowers of the Trinidad headlands Friday evening. Saturday morning found us high in a redwood forest as we sailed through the canopy on zip lines! The grandeur of the redwoods surrounded us as we hiked the trails and then shared another delicious dinner and some homemade music at **Prairie Creek Redwoods State Park**.

We shared our last breakfast together Sunday morning in the **Siskiyou Mts.** before exploring the ancient marble caves and exceptional plant diversity of **Oregon Caves National Monument** and the unique hanging fens full of rare flowers and insectivorous *Darlingtonia* plants on the **J.T. Howell Botanical Drive**. We arrived back to UCC as the sun was setting on a truly amazing learning adventure.

The class was an unqualified success on several levels. The tour route, timing and logistics went better than I could have hoped -- the bus configuration was well suited to our needs, the drivers were great, the meal preparation went smoothly, and the parks, waysides and campsites we visited all contributed botanical specimens, spectacular habitats and comfortable accommodations. After some initial tweaking, the web-based component of the class dovetailed effectively with the field tour experience. Students were challenged but not overwhelmed with the course content, and all gave insightful feedback on their experiences.

The partnership between UW and UCC was also very successful, and serves as a template for future classes. The UW Education Program contributed my time in planning and course design -- I received no extra pay for course development, thus UW retains the intellectual property rights to the curriculum. UW also contributed VISTA member Mike Rooney's time as a teaching assistant. Mike's help proved to be invaluable in keeping the operation running smoothly.

The UCC Science Dept. covered all of the payments to the Green Tortoise for the bus, and the College was very helpful in administering contracts and in advertising and promoting the class. Although the course did not break even in its first year, we learned some important lessons, and believe that more advanced notice and more targeted marketing will soon make adventure-based learning a successful enterprise at UCC. We hope that the success of this class will create the impetus for a series of similar classes focusing on geology, history, anthropology and other disciplines that will be part of a larger field institute.

I greatly appreciate the support and collaboration of my colleagues at UCC, the UW Education Committee, Green Tortoise Adventure Tours, the National Park Service, Paul

Utz at Rising River Ranch and many others -- it took a lot of village to create such a unique learning experience.

The 2013 edition of BOT203A will be offered again this spring. The online portion of the class will start April first and will continue for the 11 week term. Students will be introduced to botanical terminology and common plant family characteristics, and will become familiar with the community dynamics and environmental history of the regions' ecosystems. The tour will follow from **June 18-23** with a slightly modified itinerary to take advantage of the wildflower blooming peaks associated with this earlier time slot.

Tuition and fees for the 4 credit class are approximately \$330, and the tour is \$675 (incredibly, the cost of tuition and the tour TOGETHER is *less* than the cost of tuition and fees ALONE at U of O or OSU). Umpqua Watersheds will be sponsoring 6 OYCC student workers with funds from our RAC grant (see President's Message on pg. 1).

So if you or anyone you know might be interested in participating -- for college credit or simply for an awesome "edutourism" experience -- please send me an email at ken.carloni@umpqua.edu and I'll put you on the 2013 list. Priority for the bus tour will be given to students taking the class for credit. Those wanting to go on the tour without taking the class will pay only the \$675 fee, and will be added to the tour roster on a first come, first served basis

Get Involved! Join a Committee.

Education Committee Meetings

When: 2nd Tuesday of Every Month, 5:00pm

Where: Chi's Garden Restaurant, Downtown Roseburg

Contact: Thomas McGregor - tmcgregor.uw@gmail.com

Restoration Committee Meetings

When: 3rd Tuesday of Every Month, 5:00pm

Where: McMenamins Roseburg Station Pub

Contact: Stan Petrowski - Stanley@surcp.org

Outreach Committee Meetings

When: Last Wednesday of Every Month, 5:00pm

Where: Umpqua Watersheds Office, Downtown Roseburg

Contact: Buzz Long - buzzbike@msn.com

Wild On Wilderness Committee Meetings

When: Last Wednesday of Every Month, 6:00pm

Where: Umpqua Watersheds Office, Downtown Roseburg

Contact: Susan Applegate - susan309@centurytel.net

a stream have a bearing on this. We cannot exclude fisheries management policies on State and Federal levels or conditions in the ocean to determine if our salmon and lamprey will actually be vibrant in the years to come. All of life is interconnected and complex and we say the 'three legged stool' model is too simple. The issues are not black and white. The economic prosperity of a few should not be at the expense of environmental health of us all.

UW's model of restoration includes a significant economic and social element. Let's turn the ecological disaster of millions of acres of plantation stands and neglected forests in Douglas County into an ecological/economic plus. For far too long our society has gorged itself on the prominent market driven model and stomped into the ground some of the greatest wealth our natural surroundings provide. The restoration committee hopes to build a more sophisticated and ecologically sensitive interrelationship between us as a society and the forest and streams that support our lives.

The task at hand is a tall order and UW cannot do it alone. We have expended many resources to protect nature. Relative to our society's impact on nature, little has been done to restore it. Come join us in this venture. Support us. Help provide us with the tools we need to make sound science based decisions. Actively get involved with this project. It promises to be an exciting one.

Snowshoe Hike February 24th

Come and experience the beauty of the Umpqua with long-time hike leader Patrick Starnes as he takes the group through scenic Silent Creek. Patrick will discuss high elevation forests and the web of life for rare carnivores.

When: Sunday February 24, 2013

Who: Welcoming all community members young and old, seasoned snow-shoers and first timers.

Where: Silent Creek, Umpqua National Forest near Diamond Lake and Mount Bailey.

Cost: \$10 person for snowshoe & ski pole rental if needed.

Meet: Carpool will meet behind Douglas County Library - Fowler St. Parking Lot - 8:00 A.M. Reserve by Friday, February 22

Deliver registration to: 539 SE Main St. Roseburg OR, 97470

Email Roland Wang at roland@umpqua-watersheds.org or call 541-672-7065

Wild On Wilderness Committee

The WOW Committee, a subcommittee of the Conservation Committee, has been actively refining our business sponsor and endorser packets that we give to each business that signs on with their support for the proposed Crater Lake Wilderness. Business sponsors understand that environmental amenities such as wilderness, especially in a gateway community to a National Park within the proposed wilderness, bring recreational dollars and other business opportunities into the area as many studies have shown.

The addition of wilderness in the Umpqua and beyond will secure critically important and viable migration corridors for wildlife as they must adapt to the effects of a rapidly changing climate; sequester clean cold water slowly releasing it through hotter times, helping our native fisheries and human communities who depend upon these environmental services. As well, sequestration of carbon in the soils and big ancient trees in these areas is vital to combating global climate change.

On January 17th, Umpqua Watershed's Wild On Wilderness Committee was able to host a successful summit on the Crater Lake Wilderness proposal, inviting our partners in the campaign: Environment Oregon, Oregon Wild and the Crater Lake Institute. As well we invited staff from Soda Mountain Wilderness, KS Wild, Cascadia Wildlands and The National Park Conservation Association. Because of the grant from Patagonia, WOW was able to contract with ECONorthWest's Kristin Lee for a presentation on the Economics of Wilderness. Among a list of interesting data, these latest figures from the state of Oregon reveal that the total expenditures for wildlife-related recreation for 2011 came to \$2,657,515,000. That's right, over \$2 ½ billion. The better the access to wild environment for fishing, hunting, hiking, and wildlife watching, the greater the attraction to quality businesses looking to locate.

The Summit brought many great ideas on how we can move our campaign forward into the public and political arena. Public slide presentations; a "Crater Lake Wilderness Campaign" Facebook Page; photo workshops, and hikes into the proposed wilderness areas were just a few from a slate of ideas that came out of the Summit.

The Umpqua Watershed's Website features the WOW Committee brochure for the Crater Lake Wilderness proposal. Look for the Crater Lake Wilderness slate of events through the year, as well as business sponsors whose businesses we in turn, can support.

Susan Applegate

Restoration

Umpqua Watershed's (UW's) restoration committee has been meeting regularly each month to hammer out a strategy for ecological restoration in the Umpqua Basin. The meetings can get boisterous - but they are generally productive. At present we as an organization have hewn out fundamental guidelines that we feel should be used to raise the level of ecological function in restoration project areas and landscape management in general. At the same time, UW is exploring innovative ways for us as a society to sustainably interface with our natural surroundings. We clearly do not separate our society from its natural surroundings. As a society, we are inevitably going to have an impact on our world. We cannot exclude human interaction from the air, water and forests we live in. The question is - how do we do this without undermining the very laws of nature that keep us alive? We've made the discovery of the answer to that question part of the Umpqua Watershed's strategic plan.

Historically our organization has been actively involved with many collaborative forest management efforts. Collectively, our Board of Directors and members have invested countless hours and significant personal energy and financial resources in such work. We don't get paid to do this.

We decided a lot of time and energy could be saved if our collaborative partners knew where we stood right from the beginning of our dialog. To that end, we have a science based white paper in the making and we are anxious to explore constructive principles by which we can go forward. This plan of action is very helpful if not purely from the fundamental standpoint of clearing up misconceptions about UW's motives, perspective and just who we are. The issue of conservation and restoration has been highly politicized. In the bevy of rhetorical statements, actions and reactions, confusion often ensues. There's good will and understanding lost in the process and we need to preserve all of that we can of it.

Restoration ecology is a critical element in strengthening the health of our communities. We, as an organization, are persuaded that a healthy environment is fertile ground for healthy society. For us, restoration work is a positive and productive way of expressing our heart felt desire to uphold the communities in which we live. As always, there is rarely complete agreement on how that is done. Science will help us. Over the years there have been success stories. The most prominent of these can be seen in the work of the State watershed councils. Certainly this is not the only venue where success can be measured, but it is one predominant venue that the general public is aware of.

For years efforts to embark on restoration projects and to find common ground have been based on the principle of the "three legged stool". The figurative support (legs) of this imaginary stool are **environmental, social and economic stability**. That idea never really sat well with UW's

vision of a measurable way to go forward. The concept of the three legged stool is based on the principle that having a third element to base decisions upon removes the ever present tendency of polarization of ideas in our efforts. This is an egregious over simplification of the situation, in our estimation.

We as an organization have been persuaded for a long time that the economic element is very arbitrary, synthetic and far too abstract in the three legged stool idea. That's not to say that we are ignoring the significance of economy in our society. Far from it. What we do say is that the current model is inefficient and that the formula is biased toward resource extraction to the benefit of a few. There is little importance placed on the impact of resource extraction upon the environment. What is the ecological and economic impact of a clear-cut? Our guess is that it is costly. The level of ecological function that is left on the ground when work is done is very low. What is the real social impact of herbicide spraying, for instance? Very little economic value is placed on what is left at a site when clear cutting takes place. We think it is an economic negative. Most people can plainly see that it is an economic and ecological minus. They sense it when they see it.

The true cost of the products made from our natural surrounding is rarely reflected in the market place. Our culture is very good at pushing the real costs of ecological bankruptcy into the future. Next, to cover this up as quickly as possible - replanting short term rotation monoculture stands of conifers is done.

We say just because it is green on a hill side after a few years of plantation tree growth doesn't mean that that mountain side is healthy. For all practical purposes, ecological function on these stands is a collective negative if we as a society are to measure the environmental impact. It may make short term economic sense, but this model does not have long term viability.

Umpqua Watersheds does not see environmental health and restored ecological function to be the same thing. Environmental health is a prerequisite for raising the level of biological diversity needed to support life in all of its multifaceted forms on this earth. It is the complexity of living things and their natural order that takes environmental health to the next level. Certainly these concepts overlap and intertwine as do the sociological and economic components. Nevertheless, environmental health should never be considered on par with economic well being. Environmental health is the foundation upon which a healthy and vibrant society is based. Economic health is based on environmental health. Not the other way around.

Our understanding as a society of the relationship of environmental health and ecological health needs to be fine-tuned. Just because we have good clean water (the environmental condition) doesn't guarantee we will have strong salmon runs (the ecological condition). Yes, clean water is essential for healthy fish runs. We also know that elements as small as insect populations or large wood in

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Umpqua Watersheds sends a Big THANK YOU to all our Business Endorsers

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