# **What is a Healthy Stream After All?**

filled with phrases such as, "protect our watershed is functioning and collectively the streams and river in the County to through collaboration with local natural resources", "love your mother", "conserve energy" and "save our canyons". These are catchy phrases that motivate a certain worldview, but what do we really

pollution?

anyone who's attempted characterize and monitor the natural world, the answer to these questions is more complicated than our college textbooks led us to believe Remember biology class when the teacher

handed out a pristine diagram of a dissected Remember what the frog really looked like once your lab partner fainted and you bravely yielded the scalpel? We in the natural resources community are often faced with similar dilemmas. We need to there are no formulas to follow, no neat

document what you see and monitor change diverse areas of Salt Lake County. Once the stream restoration work in the County over time. With persistence, we will acquire the method was established, several County has centered on the Jordan River, but with

shopping

Jordan River Utilization for Long-Term Economic

and

Participants shared the perspective that the River can be

best used in the long-term as natural open space.

Respondents overwhelmingly stated a preference for a

"green/natural" corridor

Vision Scenarios for the Jordan River

identify opportunities for enhancement.

In the vein of characterization, and in support of the County's Water Quality Stewardship Plan (WaOSP), the Flood mean by environment, resources or Control & Water Quality Division has

worked with local experts and over consultants the past few years an assessment protocol we refer to as the Stream Function Index (SFI). The SFI is a assessment monitoring tool scores a based on water quality,

for the SFI, Salt Lake County sought input from numerous local experts and natural resource agencies. Through research and discussions, we quickly realized that the determine if our environment is polluted, if majority of established stream monitoring our streams are functioning properly, but protocols were developed for natural settings. Applying those methods to an improved through stream restoration urbanized environment would result in Earth is dynamic, complicated, skewed numbers to say the least. beautiful. As a result, the best approach to Therefore, we worked together to develop characterization is often the simplest - a method that would be meaningful in the

habitat, flood conveyance, and social/

recreational facilities. To develop protocols

Both national and local headlines are a better understanding of how our staff hit the "water" and walked/canoed this new dataset, we're hopeful that collect data and characterize our streams. Over 20 streams, one major river, and to give each of our streams a score.

A final SFI Report will be published in grant monies.

(2008)however, there are s o m e preliminary numbers example, of the 226 stream miles that have 108 miles identified

bank conditions. This means that about half of our streams are in a condition of flux where the morphology of the stream wants to shift, but development, crossings and other conditions make that natural shift unlikely. With this information, the County and municipalities have a better handle on what sections of creek may be

Stream restoration projects typically focus on stabilization, re-vegetation, and habitat enhancement. To date, most of

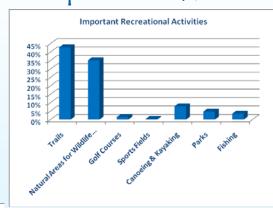
communities and cities, other areas will be enhanced. In working together, this many mosquito bites later, they are ready countywide assessment will assist all agencies in applying for and receiving

> Similar to the WaQSP, the SFI will be updated every 6 years. The data will be compiled into a comprehensive report and the information will be shared with management and regulatory agencies as well as the public at large. This

information will also be posted on our website (www.waterresources.slco.org).

As we transition from a planning to an implementation focus, it's crucial that we know how our streams are functioning. The SFI provides key pieces of information to inform management decisions and monitor watershed improvements. With focused efforts, we hope to see improvements in the SFI scores with each update of the WaQSP. Even though it's tricky, the more we observe, the more we can differentiate between the liver and gallbladder of our

# Blueprint Jordan River-Continued



Note strong desire to maintain the Jordan River corridor as a natural area for trails and wildlife viewing.

#### Survey Results

Generally, the largest demographic that participated was in the Blueprint study were 30-44 yr-old and lived further than two miles from the River. Interestingly, age and geography correlated to some fluctuations in the responses, but overall, the respondents had similar priorities across demographic categories. In other words, the survey results indicated a strong and shared public perspective on the River's future. Most significantly, when asked about their vision for the River, respondents overwhelmingly stated a preference for a "green/natural" corridor



#### **Next Steps**

summer, a team of volunteer professionals have been working with Envision Utah staff to translate the public 😾 input from the survey and maps into a Vision report with goals and recommendations for V implementation (including a series of guiding maps). Draft recommendations and maps will be presented to the public during a series of Open Houses on September 10th (6:00 - 7:30PM) at the Utah Cultural Celebration Center in West Valley City and September  $11^{th}$  (6:00 – 7:30PM) at the Gale Center in South Jordan and the Lehi Legacy Center (6:00 - 7:30PM). After the next V round of public input, the "Blueprint" will be revised and taken to each City Council for comment and finally for approval by the Salt Lake County Council in December.

More information is available on-line at: www.blueprint.slco.org

**Gabe Epperson** Planning Director; Envision Utah Gabe@envisionutah.org; 801-303-1453



Corroon.



Salt Lake County Public Works

Flood Control & Water Quality Division

Water Resources

Planning & Restoration Program

2001 South State Street, Suite N3100

Salt Lake City, Utah 84190

Digital copies available online at

www.waterresources.slco.org

We welcome submissions!

JOIN THE CONVERSATION

Salt Lake County will host the second

annual Salt Lake Countywide

Watershed Symposium,

October 28 and 29 at the

Salt Lake Community College

Larry H. Miller Campus

(9750 South 300 West).

What? FREE, two-day event. Multi-

faceted review of the current state of

our watershed. Featuring panel

discussions, presentations, field trips,

informational tables by numerous

non-profit and government agencies,

a keynote address by Mayor Peter

Who? Designed to bring together the

general public, local water quality/

watershed experts, environmental

activists, teachers, students, and those

Register? Participants must register

Contact: Marian Hubbard

801.468.2714 or

Mhubbard@slco.org

working in watershed professions.

before October 20, 2008.





Blueprint Jordan River

Many people who spend time along the Jordan River Parkway, or canoe through scenic sections of the River, may ask themselves, "Who manages this River? Is there an overarching authority that determines how the River is developed?". Seemingly straightforward questions, but the answers are anything but

State Lands as a navigable water. numerous entities.

With the complex jurisdiction in mind, and in order to establish a comprehensive plan for the Jordan River, Envision Utah, along with Salt Lake County and the municipalities along the Jordan River, have been engaged in a master planning process for the Jordan River for the last eighteen months. This project is named

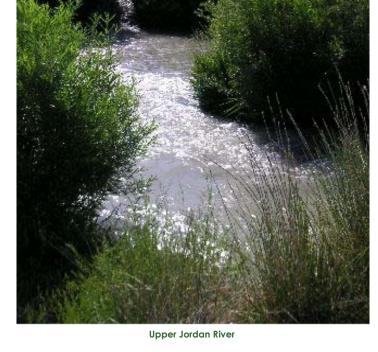


## Project Update

straightforward.

As the Jordan River flows from Utah Lake to the Great Salt Lake, it passes through 15 municipalities and 3 counties. Additionally, the bed of the River is considered sovereign land and is managed by the State Division of Forestry, Fire and Land use along the River is governed by local municipalities. and hydrologic connections to the River are overseen by local flood control authorities. So, the answer to our simple question is that the Jordan River is a multijurisdictional resource that requires cooperation between

"Blueprint Jordan River".



#### Background

The "Blueprint" is a visionary planning effort that explores future uses and conditions along the Jordan River. The primary goal of the project is to raise awareness of the River as a regional amenity and natural resource. Additionally, the "Blueprint" seeks to build a constituency for the River by encouraging public buy-in to raise the level of investment in, and stewardship of, the River. It is the hope of many involved in this process that one day the River will maintain a healthy, thriving ecosystem, that supports recreational uses such as: wildlife viewing, cycling, and non-motor boating. Natural resource and social capital improvements may provide the backbone for sustainable economic opportunities to improve development in our Region for transportation amenities.

#### Public Involvement Summary

In May and June of 2008, a series of public workshops, online surveys, and focus group meetings were held/conducted to gather public input on the future of the Jordan River. Over 1,200 people responded to the survey; 8% of which were from the Hispanic/Latino community (a targeted effort was made to include this important constituency). In addition to the survey results, those who attended the workshops produced almost 40 maps with numerous comments and recommendations on areas to conserve and to develop. These maps also identified preferred locations for new recreational facilities and identified

(Continued on page 4)

Fork Park. In early 2007, the from 5,000 feet in the foothills Just about one year ago

today, the Salt Lake County Council was considering spending \$8.7 million to purchase nearly 1,700 acres of open space near Herriman. In October, the Council voted unanimously to make the purchase, and in December market, the 2007, the County closed the County realized deal, and county residents it became the proud owners of a unprecedented spectacular new mountain and unique preserve ideal for recreation and escape from city life, the Rose Canyon Ranch. The ranch purchase was the culmination of years of effort and planning to bring parcels of land in the southwest quadrant into public ownership. As early as 1984, the County was working to move made using military land into what is now Bureau of Land Management

BLM approached the county just west of Herriman to 7,200 with a proposal to link its land feet near the highest peaks of the with Yellow Fork to create a Oquirrh Mountains. The area has Lake County. This land may entire 4,000 area. The BLM will much larger recreational area fresh water springs, abundant

hikers, and bikers and picnic areas for family use. When Rose Canyon Ranch came on the opportunity to consolidate close to 4,000 acres of land for county residents Thanks to County voters the purchase was

with trails for horse riders, wildlife—deer, cougar, wild

funds from the \$48 million 2006 Open and Green Space Bond.

Rose Canyon Ranch and the

Mountains Now that the

healthy forest habitat. The views long planning process that will recognize that preserving open from the ranch are spectacular: include stakeholders from the spaces now is critically Utah Lake, Mt. Timpanogas, and State, County, cities, user important for this and future purchased the 800-acre Yellow surrounding properties extend the farm land of western Utah groups, educational generations.

County; the whole of the institutions, and residents. The Wasatch Mountain Range; the goal is to bring the best minds Oquirrh Mountains; and together to craft a careful, almost the entire length of Salt comprehensive plan for the be the only publicly held and be the county's primary partner accessible land contributing resources and on the western expertise to the project; the side of the BLM and County have entered O quirrh into an agreement to cooperatively manage the area.

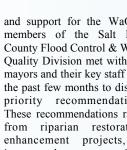
> and is secured, purchase epitomizes the goals the County is of the county's Open Space setting out to Program: to secure for county develop a long- residents the highest quality land open spaces that are necessary management for our quality of life. Residents plan that will will be able to take an evening protect the land's walk, have a family picnic, beauty, health, explore new territory, and and resources. In discover nature in this September, the wonderful preserve. The County's Parks purchase of the Rose Canyon and Recreation Ranch was possible only Division will because the residents of the kick off a year- County and its leaders

WATER QUALITY STEWARDSHIP PLAN After three years, over The Rose Canyon Ranch

125 stakeholder meetings, 200 individual comments, and numerous unofficial discussions, a final Salt Lake Countywide Water Quality Stewardship Plan (WaQSP) was published in August of 2008. For those involved in the development of the WaQSP, those are happy words! With the assistance of many individuals and agencies, we now have a comprehensive stewardship plan that will provide the basis for water quality improvement and preservation efforts for the next six years and beyond.

> As part of an effort to establish stakeholder buy-in

### WATER QUALITY STEWARDSHIP PLAN (WAQSP) **RECEIVES BROAD SUPPORT**



measurements and the

establishment of riparian protection ordinances. Many cities responded with enthusiasm and support W a Q S P recommendations. In fact, through these meetings it became apparent that several cities have established significant protection measures and are forging innovative paths towards water quality stewardship in the County. For example, Riverton City has a Sensitive Area Overlay Zone ordinance that protects both wetlands

and riparian corridors.

Similarly, Salt Lake City

recently passed a Riparian

members of the Salt Lake supports appropriate development practices that are targeted local municipalities. It is County Flood Control & Water in riparian corridors. The City of toward the preservation and anticipated that the County Quality Division met with city Taylorsville is developing a warm enhancement of waterways Council will adopt the final mayors and their key staff over water fishing pond that will use and watershed function. the past few months to discuss Jordan River water, and West priority recommendations. Valley City has a 75-foot support, implementation of been adopted, it will be sent These recommendations range easement requirement along the WaOSP recommendations to the State for certification from riparian restoration/ Jordan River within its boundary. will be both efficacious and enhancement projects, to This is to name a few. Many influential.



Kavakers in Jordan Rive

and support for the WaQSP, Overlay Zone ordinance, which encouraged additional through collaboration with

With robust local increased stream flow other cities have adopted and about the momentum that surrounds collaborative

water quality stewardship in the County and look watershed!

The Salt Lake County Council of Governments (COG), comprised of local mayors and council WaQSP as many please contact: recommendations can only be implemented

WaOSP in September of this year. Once the plan has and the Environmental We're excited Protection Agency for concurrence

Page 3

Thanks to everyone who participated in the WaQSP development! It is forward to partnering only through collaboration with local leaders on that we will be able to efforts to further improve improve water quality and and protect our protect our natural resources for generations to come.

> To learn more about the WaOSP, visit www. waterresources.slco.org.

Copies of the WaOSP are also available at all Salt members, passed a Lake County libraries and Resolution of Support for the Main Salt Lake City the WaOSP on August 7. library. To receive a CD 2008. This support is copy of the Plan or to learn vital to the success of more about the WaQSP,

> Natalie Rees (801,468,3656 or nrees@slco.org).

# "LEED" Environmental Stewards-Right Next Door!!

turkeys, and 750 elk-and

We all live and use buildings as part of our everyday life. However, we may not always consider environmental cost associated with these great structures. Buildings fundamentally impact people's lives and the health of the planet, but to what point? In the United States, buildings use one-third of our total energy, two-thirds of our electricity, oneeighth of our water, and diminish valuable open space and natural resources. How can we reduce energy and water usage while fostering a robust economy and conserving our precious natural resources? When you hear about development, you may have heard the term "LEED" thrown around, but what is LEED and what does it mean for us locally?

land. Then in 1986, the county

Leadership in Energy and Environmental Design (LEED) is a Green Building Rating System. LEED is a third-party certification program and the nationally accepted benchmark for the design construction and operation of high performance green buildings. The LEED rating system encourages global adoption of sustainable green building

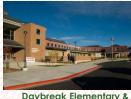


**Hub-Certified** 

and development practices. It also gives building owners and operators the tools they need to have an immediate and measurable impact on their buildings' environmental

LEED promotes a whole-building approach to sustainability by recognizing performance in five key areas of human and environmental health: (1) sustainable site development, (2) water savings, (3) energy efficiency, (4) materials selection, and (5) indoor environmental quality.

So, what makes a building LEED certified? Each type, or version, of a LEED building, such as a school or a home, has a different scoring system based on set requirements. These buildings can obtain points in the five key areas. For example, the New Construction Rating System is designed to guide and distinguish highperformance commercial and institutional projects, such as office buildings, high-rise residential buildings, government buildings, and recreational facilities. Under LEED Version 2.2, there are 69 possible points new construction buildings can earn to qualify for four levels of certification:



Community Center-Silver

Certified - 26-32 points Silver - 33-38 points

Gold - 39-51 points Platinum-52-69 points

As you look around the Salt Lake Valley, you may wonder if there are any LEED Certified buildings among us. Good news, we do have quite a few here in the County and the numbers keep growing. The environmental and economic benefits of these buildings are felt by anyone who comes into contact with a project including the community as a whole Salt Lake County promotes incorporating Leadership in Energy and Environmental Design criteria in the recently finalized Water Quality Stewardship Plan (WaQSP). What's more, the new County Public Works Administration Building is striving for a Gold LEED Rating.

Even more good news is the pilot program of LEED Neighborhood Development (LEED ND). LEED ND uses the framework of other LEED rating systems, but also encourages smart growth, and promotes location and design that reduces driving. This program has



many additional benefits, such as a reduction of urban sprawl thus reducing stormwater runoff and destruction of wetlands. We have an example of this right here in Salt Lake County. Kennecott Lands Daybreak development, located off of Bangerter Highway at approximately 11400 South. Daybreak has three buildings built to LEED standards. One of which achieved a Silver Rating.

Since the launch of LEED in 1998. has grown to encompass more than 14,000 projects in 50 U.S. States and 30 countries. Although there may be additional building costs associated with LEED, the costs pay for themselves with reduced maintenance costs in the future. Green design not only makes a positive impact on our watershed and environment, but public health as well. It has many economic benefits such enhancing building marketability, all the while creating a sustainable community. For more information on LEED, visit the U.S. Green Building Council (USGBC)



Salt Palace Expansion Phase III -Gold

## Fertilize in the Fall?? Now's the Time!

Don't leave lawn care until spring!

Fall is the best time of year to fertilize your lawn and control weeds Fall fertilization is best because the lawn has passed through the stressful summer months and needs food to rebuild itself. During the fall season there is less competition for nutrients from weeds and also the nutrients take advantage of the cool weather growth period to restore the lawn to full health and prepare it for the next summer. Fertilizing your lawn in the spring only contributes to increased blade growth, which then means more mowing, more lawn clippings,

and air pollution from gasoline oxygen, less food, less fish. powered lawn mowers.

However, this is not the only reason to fertilize in the fall. In neighborhood streams. The quality steward, not only will pesticides, dirt, and lawn you be rewarded with a into the gutter ends up clogging healthier watershed as well. fish spawning areas and covering the stream channel floor. Also, the extra load of nutrients from fertilizer may cause large blooms of algae population in our local watershed. The result is less

Fortunately, we can have a beautiful vard and a healthy watershed. By following the Salt Lake Valley, storm landscaping and appropriate drains flow directly to our local garden maintenance practices, creeks and river with **NO** you can keep the stormdrains treatment. Excess fertilizers are clean and excess fertilizer, washed off the land into streams pesticides, dirt, etc. out of the by stormwater, polluting our watershed. By being a water clippings that we hose or sweep beautiful landscape, but



WE ALL LIVE **DOWNSTREAM** 

www.stormwatercoalition.org

## Fall Landscaping Tips

Use biodegradable pesticides/herbicides.

Never use the gutter or storm drain system for disposal of household or garden waste.

Store pesticides, fertilizers and other chemicals indoors or in a shed or storage cabinet.

Clean leaves, sediment and trash out of gutter and dispose of in garden or trash.

Control erosion on your property by planting groundcover and stabilizing erosion prone areas.

Collect lawn and garden clippings, pruning waste and tree trimmings. Chip if necessary and compost.

Mow with sharp blades set at 2 ½ to 3 inches and leave clippings on the lawn.

Sweep and collect dirt from driveways or walks and dispose of in garden.

Apply lawn and garden chemicals sparingly and according to instructions. Rinse containers and use rinse water as product. Dispose of rinsed containers