Page 4 Are You a Water Savvy Steward??



Did you know by letting the water run while brushing your teeth, shaving or washing dishes you can waste 3 to 5 gallons a minute? That adds up to about 20,000 wasted gallons a year in your home!!

Do you know how much water you use?

| | Non-Conserving Activities | Conserving Activities | • |
|-------------------------|--|---|-------------|
| Shower (5 Minutes) | Regular showerhead uses 30 gallons | Low-flow showerhead/restrictor 15 gallons and Wet-down, rinse off 4 gallons | • s ł |
| Toilet Flushing | Conventional toilet 5 to 7 gallons per flush | Ultra-low flush toilet 1.6 gallons | • t |
| Brushing Teeth | Tap running 10 gallons | Wet brush, rinse, 1/2 gallon or less | s f |
| Shaving | Tap running 20 gallons | Fill basin 1 gallon | tr |
| Washing Hands | Tap running 2 gallons or more | Soap and rinse 1 gallon or less | |
| Wash Dishes | Tap running 30 gallons | Wash and rinse in dishpan or sink 5 gallons | |
| Automatic Dishwasher | Full cycle 15 gallons | Short cycle 11 gallons | ste |
| Washing Machine | Full cycle, top water level 40 gallons | New "tumble-action" efficient clothes washer 25 gallons | |

NAVIGATING THE WATER QUALITY MAZE

Negotiating water quality, watershed health, drinking water supply, stormwater, and wastewater in Salt Lake County can be tricky. We, as water professionals, often get calls from people who are trying to find the right phone number to call, the right person to talk with, or answers to what seem apparently straightforward questions. In Salt Lake County, a complex jurisdictional maze exists to manage water guality and water related issues. This maze can be confusing for those who work in it on a daily basis, let alone people who simply need an occasional answer. The following list of organizations is offered to help you navigate the water quality, watershed, and water supply world more easily.

RIVER RESTORATION



restoration in Salt Lake County. One of the most experienced:

Steven F. Jensen SLCo Water Resources Planning http://www.waterresources.slco.org (801) 468-3630

STREAM ALTERATION

If you're going come into contact with a stream through construction activities, check with the Division of Water Resources to determine if you need a stream alteration permit.

http://waterrights.utah.gov/strmalt/ forms.asp (801) 538-7404

CULINARY WATER If you're having problems with your

culinary water call your local water provider. If you're not sure who that is, the major water districts are:

Jordan Valley Water Conservancy http://www.jvwcd.org/ (801) 565-4300

Salt Lake City http://www.slcgov.com/utilities/ (801) 483-6900

FLOODING If you have flooding

concerns or need a flood control permit, please contact the Salt Lake county Flood Control

Division. Http://www.pweng.slco.org/flood/ (801) 468-2711

These are but a few suggestions. For more information, contact your local City and/or County offices. We'll do our best to help you

navigate" the ever complicated maze of water quality, watershed health, wastewater, and stormw

Water Saving Tips

- Repair leaking pipes and faucets
- Only run the dishwasher when its full
- the washing machine the appropriate level n't run the water while shing your teeth, ving, or washing your
- ore a pitcher of water in refrigerator for drinking you won't have to let the cet run to get cold water on't use the toilet as a h can

ant to learn more?

Stephanie Duer Salt Lake City Vater Conservation Coordinator (801) 483-6860 hanie.duer@slcgov.com www.slch2o.com

WHAT'S NEXT FOR SALT LAKE **COUNTY?**

With a final Water Quality Stewardship Plan (WaQSP) in hand, Salt Lake County has successfully received several grants to start implementation in 2009. Additionally, the County Council has allocated money for continued stream restoration and WaQSP support. The momentum surrounding water quality stewardship is truly a product of everyone's support! Thank you!

2009 TASKS

Ecosystem Enhancement

- Bingham Junction large scale ecosystem restoration project on the Jordan River between 6400 and 9000 South
- 9000 South ecosystem restoration project on the Jordan River 8600 South – develop design drawings to construct an overland flow stormwater treatment facility to remove sediment and nutrients Dry Creek (between 700 and 1300 East) – large scale stream

restoration project Land Use Ordinances

Develop sensitive areas overlay zone ordinance template for use on the west side of unincorporated Salt Lake County.

Continuing Planning and Data Collection

- Develop a Countywide Water Quality Predictive Management Tool for water quality planning and compliance purposes
- Expand water quality and quantity data collection. Install five (5) flow gauge stations that will also be used for water quality monitoring
- Sample instream water quality during storm events - conduct pilot instream sampling of Mill Creek during a storm event

Public Involvement

- Publish bi-annual Watershed Watch newsletter
- Organize and facilitate annual Watershed Symposium
- Continue to facilitate meetings with the Jordan River Watershed Council.
- Provide assistance, coordination, facilitation and oversight for water quality improvement grant applications.



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!

CONVERSATION WRAP-UP

2nd Annual Salt Lake Countywide Watershed Symposium



Symposium Participants Listen to Mayor Corroon's Opening Remarks

Thank you to everyone who participated in and joined the conversation at the 2nd Salt Lake Countywide Watershed Symposium this past fall! We had approximately 300 participants from a variety of backgrounds. Participants chose from 24 presentations and three field trips, all fostering conversations about water quality issues in Salt Lake County. We received many positive comments and it was the consensus that the Salt Lake Countywide Symposium is worthwhile and would like to see it grow. Thanks to your support, we are excited to announce the County will host the 3rd Salt Lake Countywide Symposium this year!! Thank you and with your continuing support, we hope to make the Salt Lake Countywide Symposium an annual event.





By Mathew Prince & Patrick A. Shea, Former BLM Director

Just above Salt Lake City, City Creek Canyon still looks much as it did when the first pioneers arrived in 1847. Historically, City Creek influenced the location of development within the valley,

and provided valuable water to a growing population. However the canyon was not without controversy. This article provides an

historic perspective on a beloved Salt Lake City treasure.

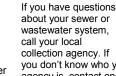
July 22, 1847, an advanced company, lead by Orson Pratt, camped along a creek near the site where the City and County building now stands. Once Brigham Young and his company reached the valley, one of the first items of business was naming various streams that ran from the mountains into the valley. The stream that provided refuge for Orson Pratt and his company was later named City Creek by Brigham Young.

As the Salt Lake valley was developed, City Creek's most valuable resource was the water it provided for settlers. When the pioneers first arrived, City Creek flowed out the canyon and split



City Creek Ditch Flood North Temple-1907

The views expressed in this periodical are those of the authors, not necessarily those of Salt Lake County, the Salt Lake County Mayor, the Division of Flood Control and Water Quality, or any other entity.



you don't know who your collection agency is, contact one of the major treatment facilities. They will help you identify the appropriate contact:

Salt Lake City http://www.slcgov.com/utilities/ (801) 483-6900

Central Valley Water Reclamation Facility

http://www.cvwrf.org/ (801) 973-9100

South Valley Water Reclamation Facility (801) 566-7711

Magna Water http://www.magnawater.com/index.shtml (801) 250-2118

WASTEWATER

Spring 2009

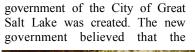
City Creek - A Unique Local Treasure

naturally near what is now the intersection of State St. and North Temple. However, early settlers set in motion the diversion of City Creek from its natural course, and by spring of 1848, over 5,000 acres of land were being irrigated and farmed with City Creek water.

In January 1851, the municipal

"...No other city in the United States has such an accessible, prime piece of natural watershed "

Mayor Ralph Becker





Pipe Construction—1874

privies, or deposit[ion] any filthy

substance in or near any of the streams running through this city..." If anyone had such "filth"



City Creek North of Memory Grove During 1983 Floods

public should own the natural resources of the valley; thus the County Courts were given jurisdiction over water and timber throughout the County. Since Salt Lake City's water was being used for culinary purposes, pollution was a primary concern. Due to concern for the public health, on March 21, 1851 the City Council passed an ordinance that prevented the, "building of cow yards,

along the banks or in the waters of the streams, it had to be removed.

City Creek, however, was not a tamed resource. There were problems with ice and high water where City Creek flowed into the City. Even when waters weren't overflowing their ditches, City Creek was still dangerous. In 1850 a young girl drowned when she

(Continued on page 2)

The Jordan River Watershed Council is dedicated to the ecological and economic sustainability of the Salt Lake JRWC Mission: Countywide Watershed through the promotion of stakeholder involvement.

SIMPLE CHANGES = HAPPY FEATHERS By Bill Fenimore



Paae 2

recreational opportunities and protecting water quality, to supporting local wildlife and encouraging thoughtful awareness of the natural world, stewardship activities benefit all members of our community. However, as our houses and office prevent bird buildings encroach on streams and associated wildlife habitat, we need

to be aware of potential dangers. through Specifically, there are numerous g l a s s precautions that residents can take windows to protect local bird populations. We often hear about birds that recognizing

are lost due to window strikes. Skyscrapers have been the subject of many news articles reporting strikes in the birds who hit reflective windows U.S. alone is during migration. Some architects and builders have worked on window designs and glass materials of bird strikes ending in fatality. to avoid bird strikes. For example, special glass and design features in

an attempt to avoid bird strikes.

strikes.

without

them. The

estimated at

backyard birders, and environmental stewards, prevent window strikes. placed this close to the home. Salt Lake County stewards are often of a flying bird striking a window in birds, hawks, or other opaque deterrents.

their home. Here are a ".....preventative measures few tips to can reduce bird strikes and support wildlife habitat restoration efforts...." Birds see



Example of Window Decals

Swarthmore College designed a prevent collisions. Screens offer on the outside glass pane. With state of the art science building with effective barriers, and moving bird modern double and triple paned his Great Salt Lake Advisory

will not only improve your viewing seen by birds when placed on inside News stories that highlight opportunities, but will reduce the panes. You can find decals at

patterns can reduce

four inches, or oriented in horizontal rows separated by two inches. Objects with greater spacing reduce, but do not eliminate, all strikes.

100 million birds per year, with 50% The more elements used, the greater the protection. Additionally, it is There are no universal solutions to important that the objects be placed

potential dangers to birds are rate of fatalities as well. specialty nature stores, like the 🕈 informative, yet they do not help Significantly, no fatal bird strikes Layton, Wild Bird Center (www. have been recorded when feeders are wildbird.com/layton). In addition to decals, films placed on windows, that 🖡 Placing electrostatic decals onto make them opaque (CollidEscape: § disappointed to hear the tell tale thud windows with outlines of leaves, www.flap.org) are also effective There are continued studies for 🖌

the chance that effective bird strike prevention birds will strike devices. Current research with your windows. ultraviolet signals, which birds see but 🐇 Decals are most humans cannot, appear promising.

effective if patterns Take home message— preventative are oriented measures can reduce bird strikes and vertically in support wildlife habitat restoration 😵 columns separated by efforts that occur in conjunction with stream restoration. ()

> Bill Fenimore, author of the popular Backyard Birds U.S. State Guide series including the Backyard Birds of Utah (Gibbs-Smith, Publisher) and owner of the Lavton, Wild Bird Center (www. wildbird.com/layton). Governor Jon Huntsman appointed Fenimore to

feeders within three feet of a window glass windows, decals will not be Council, commissioned in 2008.

City Creek - A Unique Local Treasure (Continued)

fell off a footbridge. Typhoid, and other by extension the creek itself, the City observation. What's more, the Nature to life for the early pioneers, much as it water-borne diseases, were also prevalent in the open ditches and canals that ran through the City. While residents around City Creek were worried about too much water, the rest of the City was worried about water shortages. Therefore, on December 17, 1870 the idea of a piping system was introduced. In June 1877, the final water pipes were laid for the main conduit of water from City Creek into the City. Although costly, the pipes were a complete success. By 1892 there were 19,165 feet of supply lines and by 1949 there were 56.5 miles of supply lines. Individuals and businesses were charged annually to tap into the new water service, which provided a revenue stream for other municipal projects.

To protect City Creek Canyon, and



View of City Creek Canyon

Artist Sketch of City Creek Center

of City Creek

Recently, the Downtown Rising Project

designed a plan to make City Creek more

returning some of City Creek's water

constructed channel that will meander

shops, and restaurants, while observers

Undoubtedly. City Creek has

played a vital role in the

development of Salt Lake City.

appreciate and enjoy its beauty.

through pathways, plazas, living spaces,

canyon in 1884. Acquisition gave the protections that are essential to the health City legal control and provided the basis of preservation for one of the most protected creeks in Salt Lake County. By 1947, Salt Lake City had acquired the last available City Creek Canyon land. Subsequently, the City and the Federal Government have worked to protect upper below Memory Grove) to a newly City Creek sub-watershed through mutual agreements.

Today the Canyon is a much-loved resource that supports abundant recreational use. As a Nature Preserve (designated in 1985), City Creek Canyon provides recreational opportunities such as: picnicking, hiking, biking, and wildlife The water it provides was essential

Council began acquiring land in the Preserve designation provides stream is today. Additionally, City Creek Canyon is a significant recreation area. Salt Lake City Mayor Ralph Becker explains, "City Creek Canyon is an unparalleled resource for Salt Lake City, flowing from mountains over 10,000 feet in elevation into the heart of downtown Salt Lake City at 4,500 feet. No other city in the United States has such an accessible, prime piece of natural watershed. We are fortunate for the foresight and wisdom that led to protection of

> thi invaluable watershed, while allowing for appropriate recreational access for visible to local people. This includes residents and visitors. I (which currently flows underground think of City Creek as my grand backyard."

City Creek



Page 3 FINAL REPORT-Stream Function Index (SFI)

The long anticipated Salt Lake compatibility, have also been included Countywide Stream Function Index in the final score. (SFI) is in its final stage of completion. A complete data set was collected

The Stream Function Index is a during 2007 and 2008 by walking monitoring tool that will be used to nearly 300 miles of stream in Salt Lake measure stream health in Salt Lake County, recording data, and taking County, identify enhancement photos. Back in the office, data was opportunities, and measure Best entered into spreadsheets that Management Practice (BMP) calculated scores. The scores are then effectiveness. This "tool" was developed mapped in GIS to better analyze the in conjunction with the Countywide stream conditions and locate potential Water Quality Stewardship Plan opportunities to improve stream health. (WaQSP) and is anticipated to be Mapping is now complete and the conducted every six years—along with final report is being prepared. The final WaQSP updates.

The SFI score is based on a rapid assessment of chemical, physical, and biological stream conditions. Social functions, such as recreational



This bill provides for the

precipitation without

obtaining a water right under

certain conditions. With this

bill, a person may directly

capture and store

precipitation in a storage

container with a maximum

capacity of 2,500 gallons; and

Safe Drinking Water Act Amendment

S.B. 29 - Sponsor Senator Stowell, D.

Municipalities may not have fluorine added or

removed from the public water system without the

approval from the majority of the voters in the

stored to beneficial use.

effected election area.

collection and use of

interested stakeholders. An example of an assessment map is provided for Lower Corner Canyon Creek sub-watershed in Draper City. The overall Channel Stability Score is 84 out of 100, which is considered generally stable. However, several hotspots exist and are portrayed in red. Salt Lake County anticipates working with the Division of Water Quality and local municipal governments to address stream health concerns.

LEGISLATURE ROUNDUP

The 2009 Utah State Legislative is in session. Several bills are in front of the legislature that could significantly effect water quality and watershed function in Salt Lake County. Below are summaries of a few bills of interest:

Rainwater Harvesting S.B. 128-Sponsor Representative Jenkins, S.

The State Water Development Commission recommended this Bill. An exaction is a provision in the development approval process that requires a developer to give or provide something to a local government. This bill places limitations and restrictions on a county or municipality's imposition of an exaction for a water interest. It also requires culinary water authorities to provide the basis for its calculations of projected water right equirements

place the water captured and Example of a Rainwater Cistern

State Owned Land Amendments H.B. 179- Sponsor Representative Gibson, G.

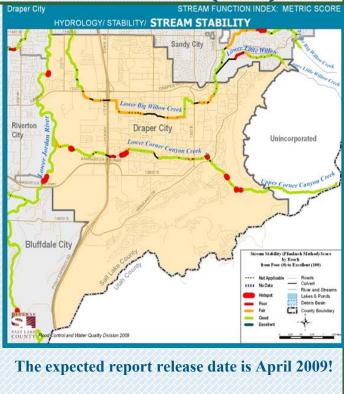
development.

STAFF CHANGES FOR DWQ AND SALT LAKE COUNTY

Hilary Arens brings abundant enthusiasm and expertise to the role of Jordan River TMDL Coordinator at the Division of Water Quality (DWQ). We will miss Jim Harris; however, he is around as the new DWQ Monitoring Section Manager. Marian Hubbard will take over as the new Watershed Coordinator for the Jordan River basir as "Natalie Rees" became "Natalie Rees Wannamaker" and is following her Navy husband to unknown shores.



SFI report will posted on the Salt Lake County website (www.waterresources. slco.org) and will be available to



Please contact Kathlyn Collins (kcollins@slco.org or 801.468.3742) to reserve your copy.

Development Exactions H.B. 68 - Sponsor Representative Painter, P.

This bill will allow a portion of the open space south of 123rd South along the Jordan River to be exchanged for another piece of land so the current open space can be used for a commuter rail station and related

HB 40 Update

In order to assure a safe drinking water supply for Utah's residents, the State Legislature passed HB 40 last year (2008). This Bill, long discussed in the Legislature, requires all counties to adopt a land use ordinance that institutionalizes procedures to prevent contamination of public wells. The deadline for adoption of such a bill is May 3. 2010.

In order to develop an ordinance, the Salt Lake County Public Works Department, and Salt Lake Valley Health Department (SLVHD), formed a committee with representatives from Planning and Development Services, Flood Control and Engineering Division, and the Environmental Health section of the SLVHD. The committee has met on a weekly basis for much of the last six months. Additionally, meetings have been held with Public Water Systems, the District Attorney's Office, and County leadership.

However, the Water Source Protection Amendments Bill (HB 205), which amends HB 40, has been introduced to this year's State Legislature. If passed, the amendment will limit the requirement to adopt a water source protection ordinance to counties of the first and second class and also limit the authorization of a municipality to adopt a water source protection ordinance to municipalities located within a county of the first or second class. Although this and several legal issues remain, the County feels confident an ordinance will be in place by May of 2010.