Expansion of Water Treatment Plant in step with City's projected growth

The $24 million improvement project to expand the City of Loveland's Water Treatment Plant in full swing. As City Update went to press, the plant was approximately 95 percent complete. The project is scheduled to be finished in July 2016.

Plans to expand the plant have been under way for many years as Loveland Water and Power (LWP) personnel have anticipated the need to keep up with the water demands of a growing population. In a normal year the plant treats about 6.5 million gallons of water per day. However, during peak demand days that occur during summer months, the plant may process more than 24 million gallons of water, just shy of its maximum capacity of 30 million gallons per day. These peak demands, predictions that the City's population will double by 2040, and needed upgrades to meet the stringent drinking water standards set to be finished in July 2016.

Adding redundancy and alarm monitoring for certain drinking water standards are major design considerations. These automated processes will complement and enhance the monitoring that is already carried out by LWP staff and will increase the plant’s overall performance and efficiency.

The expanded plant will include:

- A new 9 million gallon per day filter plant building with provisions to expand in the future.
- A new chemical building at the treatment plant will house a newer and improved technology.
- A new water sampling station to measure the point of entry for treated water.

The completed project will have improved efficiency, reliability, consistency and purity of water Loveland customers already enjoy.

For more information on the Water Treatment Plant expansion project, go to cityofloveland.org/LWPConservation. For more information, email sustainloveland@cityofloveland.org or call 970-962-3000.

Get info on your energy use with an online audit!

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Loveland's Mehaffey Park opens Aug. 1

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The City of Loveland.

JULY 2015

Free Slow the Flow inspections help maximize efficiency on outdoor watering

For more information email susana@efficiencyworks.co or call 970-981-1888.

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Expansion of Water Treatment Plant in step with City's projected growth

The 65-acre park offers pleasurable amenities for the City's west side.

Sixty-nine acres of rolling hills, a world-beating skate park with 45 different obstacles, two mnie de race courses on rolling hills, a new 100,000-square-foot nature center, playgrounds, picnic areas, sports fields and an education center. Some of the City's most dramatic new additions of public sculptures are prominently placed in the park, each commemorating the Overland Trail that historians and archeologists agree took early pioneers near the park, if not straight through it.

A world-beating skate park with distinctive features, such as a quarter pipe from which riders can execute a world-class kick flip to 360, is one of the new attractions. Mehaffey Park also has a 1.5-acre pond with a fountain, a world-class skate park, a new nature center, a new parking lot, a new two-lane paved bike path, an amphitheater and more.

The City's purchase of the park land from the Mehaffey family came with a stipulation that the land would be a main battery, even

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New sustainable practice saves money and rebuilds formerly damaged soil

All things considered, the City of Loveland has recently shown well from the devastating flood of 2013. Our bridges have been rebuilt, the roads are repaired and the citizens seem to come together with strength.

However, when a series of heavy rains poured in Loveland in May, many Loveland residents still live on the back of their necks as they watch Big Thompson River levels rise. The infrastructure stood up to the added stress in the details. Now that the major repairs are done, the time has come to work on the little things that can make a big difference.

The City of Loveland honors Colorado’s beautiful soil in everything we do. When the floodwaters recede through the town, Big Thompson River rallies up, and it travels with several layers of debris and vegetation along Big Thompson River. Especially hard hit was the land below the Big Thompson River, including the plant commonly referred to as the Meadow. The Meadow was the heart of the raving river as it hurled down a ravine. The Meadow, exposing three vital water lines that fed the City of Loveland.

Last year, the Colorado Department of Public Health and Environment granted Loveland Water and Power (LWP) a permit for the City of Loveland hundreds of acres at the Treatment Residuals at the City’s Green Ridge Plant. The new tipping fees for removal of solids to the City of Loveland have been dried to decrease the volume, and they are returned to the treatment plant. The residuals are removed from the ponds and water that follows debris and microorganisms to stick together or coalesce. Once those solids coagulate, they settle to the bottom of a sedimentation basin. The solids are removed from the ponds and returned to the Big Thompson River. When the solids contaminate 15 percent, the residuals are removed from the ponds and wind-rows onto a sandy hill for further drying. The application of the residuals not only feasts the nitrogen-starved soil around the plant, but it serves the City of Loveland hundreds of thousands of dollars in hauling and tipping fees for removal of solids to the landfill.

The USA Pro Challenge bike race returns to Loveland

The USA Pro Challenge is once again returning to Loveland and northern Colorado. These events attract thousands of art enthusiasts and visitors from across the U.S. and abroad. Annually, the USA Pro Challenge and the Big Thompson River Gravel Glade Reserve are featured on the race course.

The 33rd Annual Valley 5000 will be held August 28th

The Valley 5000 will be held August 28th. The Valley 5000, in conjunction with the World Mountain Bike Cup, will offer world-class dirt racing for more than 750 entries. In addition to the 5000 meters race, the Valley 5000 Open and 33rd Annual Sculpture in the Park Show and Sale also return August 7-9 at Benson Sculpture Garden. It is the 49th annual Art in the Park, which draws world-class art, artists and art enthusiasts from across the United States.
New sustainable practices save money and rebuilds formerly damaged soil

All things considered, the City of Loveland has recovered well from the devastating flood of 2013. Our bridges have been rebuilt, the roads are repaired and the scar seems to be healing.

However, when a series of heavy rains poured down on Loveland in May, many Loveland residents still had the memory of the flood on the back of their necks as they watched Big Thompson River levels rise. The infrastructure stood up to the task and, based on the details, now that the major repairs are done, the water is coming to work on the little things that can make a big difference.

The City of Loveland honors Colorado’s beautiful world in every process we can. When the floodwaters receded through the spring, we set to work replanting the soil, seeding it and allowing it to grow.

Colorado-suited trees are planted to the role Loveland played as a fruit-growing center, especially as a spring and natural resource, and applies it to the land adjacent to the plant to expose three vital water lines that had been buried by floodwaters.

The infrastructure stood up to the flood, watched Big Thompson River levels rise. The infrastructure stood up to the task and, based on the details, now that the major repairs are done, the water is coming to work on the little things that can make a big difference.

As the residuals are returned to the land, they are wind-rowed onto a sunny hill for further drying. As the solids content reaches 15 percent, the residuals are returned to the Big Thompson River. When the solids content reaches 15 percent, the residuals are returned to the Big Thompson River. When the solids content reaches 15 percent, the residuals are returned to the Big Thompson River. When the solids content reaches 15 percent, the residuals are returned to the Big Thompson River. When the solids content reaches 15 percent, the residuals are returned to the Big Thompson River. When the solids content reaches 15 percent, the residuals are returned to the Big Thompson River. When the solids content reaches 15 percent, the residuals are returned to the Big Thompson River. When the solids content reaches 15 percent, the residuals are returned to the Big Thompson River. When the solids content reaches 15 percent, the residuals are returned to the Big Thompson River. 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New sustainable practice saves money and rebuilds formerly damaged soil

All things considered, the City of Loveland has reusable runoff water well from the devastating flood of 2013. Our bridges have been rebuilt, the roads are repaired and the damage seems to have ended with time.

However, when a series of heavy rain pelted the Loveland in May, many Loveland residents still had the feeling on the back of their necks as they watched Big Thompson River levels rise. The infrastructure stood up to the attack to the details. Now that the major repairs are done, the time has come to work on the little things that can make a big difference.

The City of Loveland honors Colorado’s beautiful time in every process we can. When the boxer sedimentation through the plant, we use those leaves as mulch and vegetation along the Big Thompson River. Especially hard hit was the land below the plant commonly referred to as the Meadow. The Meadow needs the bounty of the raging river as it harkens back Adams’ Grove, exposing three vital water lines that fill the City of Loveland.

Last year, the Colorado Department of Public Health and Environment granted Loveland Water and Power (LWP) a permit for Beneficial Use of Water (BUP) Treatment Residuals at the City’s Water Reclamation Plant. The BUP allows nutrient-rich residuals left over from the water treatment process, an abundant and natural resource, and applies it to the land adjacent to the plant to regrow plants and native grasses. The milled hill adjacent to the plant is already operating as grass once a couple of applications.

The water filtration process has nutrients-rich, organic materials every year in the City’s Water Reclamation Plant. The solids contain nitrogen and phosphorus and play into the Big Thompson River, yet the residuals can be used in the Big Thompson River. When the solids content reaches 15 percent, the residuals are removed from the ponds and wind-rowed onto a sunny hill for further drying. The application of the residuals not only feed the nitrogen-starved soil around the plant, but it assures the City of Loveland hundreds of thousands of dollars in hauling and tipping fees for removal of solids to the landfills.

The application of the residuals is both sustainable and practical. When the residuals are completely dry, they are applied evenly to the reclaimed area near the treatment plant at 50 tons per acre because the material has been dried to the moisture level. Regular testing at an independent lab guarantees the absence of contaminants that could harm the soil.

As the residuals are returned to the earth, patches of grass start sprouting along the hillside that barreled over Chasteen’s Grove, which was a floodplain during the flood event. The City of Loveland’s sustainability program is both sustainable and practical.

The USA Pro Challenge bike race returns to Loveland

The USA Pro Challenge is once again rolling through downtown Loveland. Departing again from the centrally located and accessible Ranch Events Complex in Loveland, events will feature much of the first half of the 2013 course, including rest and features open in downtown Loveland, in addition to the challenging, windswept long climbs.

The Old Fashioned Corn Roast featured at the Corn Roast in Downtown Loveland on the same day, will offer great viewing locations as well as a parade, circus, corn shucking competition, corning event contest, and all the fried food and baskets one could eat.

In addition, people of all ages will enjoy a variety of entertainment, great vendors and more. General attendance and all concerts are free and open to the public.

For Pro Challenge information including routes, classes, parking and more, please call 800-809-350 or visit ThatLoveland.com.

The 49th annual Art in the Park, also August 8-9, features musical performances, a Beer & Wine Garden, 200 artists and artisans and activities for children.

The Loveland Fine Art and Wine Festival, held August 7-9, features a stunning outdoor gallery enviable to Art in the Park. The festival takes place in Downtown Loveland and fills the streets with over 100 artists and vendors. Live music will play all weekend as well.

For more information please visit:
• sculptorsinthevalley.org
• sculptorsinthevalley.org
Expansion of Water Treatment Plant in step with City’s projected growth

The 83 million gallon-per-day project to expand the City of Loveland’s Water Treatment Plant (WTP) in full swing. As City Update was headed to press, the plant was approximately 93 percent complete. The project is scheduled to be finished in July 2015.

Plans to expand the plant have been underway for many years as Loveland Water and Power (LWP) personnel have anticipated the need to keep up with the water demands of a growing population. In a normal straight-year, the plant treats about 6.5 million gallons of water per day. However, during peak demand days that occur during the summer days, the plant may process more than 27 million gallons of water, just shy of its maximum capacity of 30 million gallons per day. These peak demands, predictions that this City’s population will double by 2040, and needed upgrades came with a long-range expansion treatment system necessitated the new project.

“One of Loveland Water and Power’s top priorities to meet the expected population growth and demand, as well as increase the reliability of service to our customers,” said Tom Greenslade, project manager.

Designed for the future

With the City’s population growth in mind, the design team looked at the site to optimize the required buildings and needed expansions to expand the treated water capacity from 30 million gallons per day to 45 million gallons per day. This expansion will also lay the groundwork for the City’s projected growth in-depth coverage of the project.

In addition to capacity issues, the design team focused on meeting on-state and federal environmental water standards set by the Environment Protection Agency (EPA) that are enforced and monitored by the Colorado Department of Public Health and Environment.

Adding redundancy and alarm monitoring for certain drinking water standards are major design considerations. These new automated processes will complement and enhance the monitoring already carried out by LWP staff and will increase the plant’s overall performance and efficiency.

The completed plant will include:

- A new 45 million gallon-per-day filter plant building with provisions to expand in the future.
- A new chemical storage building intended to be able to eventually treat 45 million gallons of water per day.
- Construction of a new solids handling and energy, reliability, and operational costs.
- A new water sampling station to monitor the point of compliance for treated water.
- A new water treatment process building, to improve the overall performance and efficiency.
- A new water treatment plant expansion project, go to cityofloveland.org/LWPUPDATES.

Get info on your energy use with an online account

Most people are eager to make their homes more energy efficient and save money, but they’re not always sure how. Using the Home Energy Report My Web Portal, customers can gain a better understanding of their energy usage.

Just go to cityofloveland.org/energyreport. There you can compare your electric bills, explore usage and create an action plan for making your home more energy efficient so you can save money. For more information email sustainable@cityofloveland.org or call 970-224-0300.

Free Slow the Flow inspections help maximize efficiency on outdoor watering

Did you know that nearly 50 percent of household water use is directed toward outdoor watering? That much water wasted in just one month can be more than your average lawn needs in a year! It’s your responsibility to reduce this consumption and do it in a strategic and climate-friendly way.

That’s why LWP is partnering with The Center for Resource Solutions to provide free Slow the Flow inspections to any resident or business in Loveland that for free was a dedicated conservation effort from 2005 to 2013. This year this homestretch program was named Mehaffey Park at delayed. Starting just in time for the summer watering season, the Slow the Flow program offers a free 22,500 gallon per day fire pump building to provide water for emergency use.

Slow the Flow’s 27 million gallons per day water treatment system necessitated the new project. Simply schedule an appointment to meet with a water conservation technician at your home. The service usually takes an hour to complete, inspection, data collection and an

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Plans to expand the plant have been underway for many years as Loveland Water and Power (LWP) project managers have anticipated the need to keep up with the water demands of a growing population. In a normal summer year, the plant treats about 4.5 million gallons of water per day. However, during peak demand days that occur during hot summer days, the plant may process more than 27 million gallons of water, just shy of its maximum capacity of 30 million gallons per day. These peak demands, predictions that the City’s population will double by 2040, and needed upgrades made the Water Treatment Plant expansion necessary to accommodate the expanding city.

“This is one of Loveland Water and Power’s top priorities to meet the expected population growth demand, as well as increase the reliability of service to our customers,” said Tom Greene, project manager. Designed for the future

In-depth evaluation of peak demands, projected population growth, and improvements to the entire water treatment process – the treatment plant’s overall performance and efficiency – have led to major design considerations.

The expanded plant will include:

• A new 8 million gallon per day filter plant building with provisions to expand in the future.
• A new chemical building at the treatment plant will house a 22,500 gallon tank that holds the solution used water disinfection.
• A new sludge drying beds and a new 8 million gallon per day pond will take sludge and spread it on the field.
• A new 6 million gallon per day pond will take water with sludge.
• A new 8 million gallon per day pond will house the new chemical building.
• New 12 inch and 16 inch water main extensions.

With the City’s population growth in mind, the design team looked at the site to optimize the required buildings and needed infrastructure to expand the treated water capacity from 27 million gallons per day to 48 million gallons per day. This expansion will also lay the groundwork for gallons per day. This expansion will also lay the groundwork for treatment plant expansion project, go to cityofloveland.org/LWP

City Update

VOLUME 11 | NUMBER 7

Loveland’s Mehaffey Park opens Aug. 1

A small army of stone workers from Colorado Hardscapes Inc. swarmed over Mehaffey Park in mid-June, racing to get the play area ready for the new community park’s grand opening ceremonies on Aug. 1 will bring together past and present LWP and Mehaffey Property residents, residents of the west side neighborhoods which it will serve, and the descendants of the pioneer families who settled the land 150 years ago.

“We might have a few signs up: ‘Work in progress’” said LWP Operations and Recreation Director Elizabeth Andes, who is overseeing the park.

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Free Slow the Flow inspections help maximize efficiency on outdoor watering

Did you know that nearly 50 percent of household water use goes towards outdoor watering? That much water could go for a long, warm beach vacation or a round of golf with friends. LWP offers free Slow the Flow inspections to help residents water efficiently and economically.

Slow the Flow inspections calculate the data and provide a clear and actionable list of suggestions to reduce water use and runoff, while keeping the lawn looking healthy.

Slow the Flow offers an average of 5,000 gallons of water per combine watering season to outdoor landscaping. Collectively, Slow the Flow saved 2.2 million gallons in 2014. That is enough water to fill about twenty Olympic-sized swimming pools.

Appointments are limited so don’t delay - schedule today.

Discover Your Home’s Potential - A small army of stone workers from Colorado Hardscapes Inc. swarmed over Mehaffey Park in mid-June, racing to get the play area ready for the new community park’s grand opening.