



*A Vision for the Future*

Lewis & Clark Rural Water System

# EXPLORER

## CONSTRUCTION BEGINS ON TREATED WATER PIPELINE

Construction began in early June on the first segment of the treated water pipeline (TWP-1). Until now, construction has taken place on the raw

well. Other than dealing with wet conditions, no major problems have been encountered. The 36" pipe is nearing completion and the contractor

expects to begin installing the 54" pipe in September. trunk line to deliver water until the entire stretch from Vermillion to Sioux Falls is completed.



The route for TWP-1 heads south after crossing over from the west side of 467th Avenue to the east. Blue protective coating is used to mark the treated water line and green designates the raw water line.

water pipeline near Vermillion and on developing the wells. S.J. Louis of Waite Park, MN, is the contractor. This is a \$10.7 million project that runs nine miles along 467th Avenue from 12th Street west of Sioux Falls to just south of Tea. The northern five miles is 36" diameter steel pipe and the southern four miles is 54" (85th Street divides the different diameter pipe). Construction is going

west of Sioux Falls ran parallel to the Tea-Ellis Road. Because of the rapid development in that area, the route was moved two miles further west. To avoid the possibility of having to move the route a second time five or six years from now, the decision was made to start installing the treated water pipeline at Sioux Falls and then head south toward Vermillion. L&C has no plans to use any portion of the

expects to begin installing the 54" pipe in September.

Lewis & Clark's plan had been to start constructing the treated water pipeline near Vermillion and then work north, arriving in Sioux Falls in roughly five or six years. This portion of the pipeline is referred to as the "trunk line." The original route

On the raw water pipeline near Vermillion, clean up and land restoration continues on the first two segments. Construction on the third and final segment (RWP-3) has been slowed in part by rain. RWP-3 is close to four miles of 54" steel pipe. High Country Pipeline is now working on the higher ground that is drier at the northern end of this segment, which is near the treatment plant site. A majority of the construction remains on this segment.



54" diameter pipe section is lined up with another extending from a casing that has been bored under Bluff Road near Vermillion.

# CHAIRMAN'S REPORT



Chairman  
Charlie Kuehl

In the last newsletter I talked about the request from Sioux Falls for an additional 17 million gallons a day of capacity from Lewis & Clark. During these past few months there

have been many meetings on this issue. It has been the goal of L&C to provide this additional capacity, while at the same time ensuring the other nineteen members are in no way adversely impacted. I am very pleased that an agreement in principle has been reached that accomplishes this goal. The L&C Board and Sioux Falls City Council are currently reviewing the agreement and anticipate signing it

soon. This is great news for both L&C and Sioux Falls. I extend my appreciation to directors Red Arndt, Bill Heyer, and John Buss, who along with executive director Troy Larson and me worked with Sioux Falls officials on this agreement. A special thanks goes to our attorney Jay Cook and engineer Dave Odens, who shouldered the brunt of working out the details and deserve much credit for their efforts.

In other news, Rock Rapids has requested an additional 50,000 gallons a day of capacity from the 200,000 gallons of unallocated capacity that resulted from the recent withdrawal of Boyden from the project. This brings Rock Rapids' capacity to 550,000 gallons a day. Combining Boyden's remaining capacity with the one million gallons a day of capacity that is still unallocated from the earlier withdrawal of Clay

Regional Water, there are 1.15 million gallons of unallocated original capacity in IA. With no other members in IA desiring additional capacity, the membership is discussing options to make this capacity available to members in SD and MN.

Finally, I want to thank everyone who attended our annual meeting, as well as express my appreciation for the surprise honor of receiving the Lyle Trautman Memorial Award. I was at a loss for words. While I certainly feel no more deserving than the many other people who have worked long and hard on this project, I was moved by the gesture. This project means an awful lot to me. Knowing that the lifeline of water someday flowing from L&C will have a lasting impact for generations to come is more than enough motivation to keep pressing on.

## 15<sup>th</sup> ANNUAL MEMBERSHIP MEETING HELD

Lewis & Clark's 15th Annual Membership Meeting was held at C.J. Callaway's in Sioux Falls on May 26. With 164 in attendance, it was the largest annual meeting to date.

Chairman Charlie Kuehl reported on the activities of this past year. He used the theme of how L&C shows its resiliency by turning obstacles into opportunities. Executive Director Troy Larson provided a slide presentation on the progress of construction.

Former members of L&C's Board, Don Evers from Lincoln-Pipestone RWS and Dennis Davids from Sibley, received the newly established Spirit of Discovery Award, which recognizes the spirit of service, dedication, and teamwork they epitomized during several distinguished years on the Board.

Representative Stephanie Herseth addressed the attendees by speakerphone. She thanked project organizers for their hard work and expressed her continued support for increased funding. Staff members from Senators Johnson



Davids and Evers receive the  
Spirit of Discovery Award



Kuehl receives the  
Lyle Trautman Memorial Award

and Thune, and Representatives King and Gutknecht were on hand to make remarks of support and encouragement on behalf of these congressional leaders. Greetings were received from Senators Grassley, Harkin, Dayton, and Coleman. Through their words and

actions, it is very clear that the support from L&C's tri-state congressional delegation has never been stronger.

At the close of the meeting, Chairman Kuehl was given the Lyle Trautman Memorial Award, named after the former director from the Lincoln-Pipestone RWS. This is the highest honor bestowed by L&C. It recognizes his leadership and the significant contributions he has made to the project through his many years of service on the Board and as chairman. Noting it has been a team effort, Charlie thanked everyone who has contributed in bringing L&C to where it is today.

Mark your calendars. Next year's annual meeting will be held in Sioux Falls on June 1.

## \$20 MILLION INCLUDED IN FY06 SENATE APPROPRIATION BILL

There is no set amount of federal funding that Lewis & Clark receives on an annual basis. Each year L&C and its tri-state congressional leaders have to battle for federal funding. This year has been no exception. L&C's request for FY06 was again \$35 million.

L&C's Senate leaders (Senators Johnson, Thune, Grassley, Harkin, Dayton, and Coleman) first pressed the Administration to include the project in its budget, which it did at a level of \$15 million. In the House, the Energy and Water Subcommittee of the Appropriations Committee originally proposed \$7.5 million. L&C's House leaders (Representatives Herseth, Gutknecht, and King) went to bat to increase that number. Through their personal intervention, the bill that passed the full House in May included \$15 million, thereby matching the Administration's request.

The Senate Energy and Water Subcommittee of the Appropriations Committee, of which Senator Johnson is a member, included \$20 million for L&C. This bill passed the full Senate in June. The difference between the Senate and House versions of the Energy and Water Appropriations Bill will be worked out in Conference Committee. L&C has urged its elected officials do whatever possible to hold the Senate's number in Conference Committee. The feedback L&C has received from its elected leaders is that while there are no guarantees, they feel the chances are very good of holding the \$20 million level. It is hoped the Budget will be passed this fall.

With the Mid-Dakota RWS nearing completion, that project requested about \$12 million less in federal funding than it received last year. L&C leaders have long hoped that the winding down of Mid-Dakota would result in a substantial ramp up of L&C funding. While L&C leaders were disappointed that the FY06 Budget did not re-direct any Mid-Dakota funding to L&C, if \$20 million is approved it would continue the trend of increased funding levels. L&C was appropriated \$18.75 million in FY05.

Even though L&C has been in full scale construction for over a year, it is still in the early stages when considering that it will take another ten to twelve years to complete, depending on federal funding levels. Congressional leaders have indicated that as construction continues to ramp up, they fully expect that federal funding will continue to ramp up as well.

## REPRESENTATIVES HOYER AND HERSETH TOUR CONSTRUCTION

Lewis & Clark hosted two special guests on July 6. Rep. Steny Hoyer from Maryland is the Democrat Whip, the second ranking Democrat in the House. He is also a member of the Appropriations Committee. Hoyer and Rep. Stephanie Herseth toured the construction underway just west of Sioux Falls on the first segment of the treated water pipeline (TWP-1). Joining the tour were a number of L&C directors, consultants, and other officials, including Sioux Falls Mayor Dave Munson and Tea Mayor John Lawler. TWP-1 runs from Sioux Falls to Tea.



Representatives Hoyer (third from left) and Herseth (center) tour construction near Sioux Falls

This was the second time L&C was honored to host a visit by Hoyer, who previously was invited by Herseth to meet with L&C leaders last summer. The earlier meeting was a roundtable discussion in the L&C office, so Hoyer and Herseth expressed their pleasure with seeing the progress being made.

L&C officials thanked Hoyer and Herseth for their past support and relayed to them the importance of holding the Senate's \$20 million level for FY06 in the Conference Committee, as well as requesting their support for increased funding in FY07. Hoyer and Herseth both voiced optimism of L&C receiving \$20 million for FY06, and recognize the importance of ramping up funding in the future. Highlighting the importance of keeping the project on schedule, Herseth noted that with the increasing price of construction and materials, the price tag continues to climb. Hoyer remarked, "We have to have clean water that is safe to drink. Our country has certain obligations. We are the richest country on the face of the earth. We can meet our obligations, but we can't do it cheap. We spend a lot of money on defense. We need to. But we also need to spend money on domestic investments like this."

## MEMBER PROFILE: HARRISBURG, SD

"Boom town" best describes Harrisburg. Located in fast growing Lincoln County, its population in 2000 was 958. Five years later it is estimated at 1,800.

A new high school opened in 2002 and a second elementary school will open this fall. The existing elementary and middle schools were recently remodeled. Harrisburg's industrial park has seen a number of new industries open and others expand. Commercial development is keeping pace with the growing residential base. A convenience store, restaurant, health clinic, bank, car wash, and fitness center recently opened.

Such rapid expansion is welcome, but it poses many infrastructure challenges, including securing enough water to sustain the growth. Harrisburg receives all of its water from Lincoln County RWS. The City originally reserved 250,000 gallons a day from Lewis & Clark, and increased that to 400,000 in 2000. Harrisburg's current average daily use is 100,000 gallons, with a peak demand of 250,000. A water study was completed this spring. The study estimates that by 2025 Harrisburg's average daily use will be 1.2 million gallons a day, with a peak demand of 3.1 million. Ensuring a sufficient supply of water to meet its growing needs is the City's main goal. To address this future shortfall, Harrisburg's leaders and engineers are considering a number of options, including the possibility of requesting additional capacity from L&C.

Mary McClung, Harrisburg's Finance Officer, was appointed to the L&C Board in 2004. A Harrisburg native, Mary and her husband, Mark, have been married for 26 years and have two grown children. They are in the process of contributing to the boom by building a new house in town. Mary enjoys boating and fishing.



Mary McClung

## DAN SIMON JOINS LEWIS & CLARK STAFF

Dan Simon joined the Lewis & Clark staff on August 3 as the Acquisition Project Manager. This is the position previously held by Terry Pellman. The job title was recently changed to better reflect the responsibilities of the position. It is anticipated that Terry will remain on staff until September, after which time he will pursue other opportunities.



Dan Simon

Simon is a 1983 graduate of Lennox and still lives there. For the past five years he has been a project manager at Midcontinent Communications in Sioux Falls. He was responsible for managing large projects involving the expansion and reconstruction of communications infrastructure in the region. Prior to that he was with the SD Department of Game, Fish & Parks for ten years. At GF&P, he was responsible for the coordination of the trail system,

including project manager for the construction of the Mickelson Trail, which was a 114-mile rails-to-trails project in the Black Hills. He brings with him a great deal of experience working with outside consultants, has strong organization, communication and management skills, and experience working with landowners. Simon has a BS from SDSU and a MBA with a concentration in project management from Colorado Technical University. He and his wife, Mrg, have two children.

The L&C staff and directors are very pleased to have Dan on board and extend a warm welcome to him. They also express their thanks and appreciation to Terry for his efforts over the past three and a half years, and extend their best wishes to him.

## JOINT POWERS BOARD TOURS CONSTRUCTION

The Joint Powers Board (JPB) consists of the four MN members – Worthington, Lincoln-Pipestone RWS, Rock Country Rural Water and Luverne. L&C funding from the State of MN is directed through the JPB.

Following the JPB annual meeting in Luverne on July 11, the attendees took a bus tour of the construction underway west of Sioux Falls. They also drove to Vermillion to look at the wells and the construction on the raw water pipeline. Having put so much time and money into the project through the years, it was very gratifying for the MN officials to see first hand the progress being made.



Members of the JPB view the well field along the banks of the Missouri. The bridge to Nebraska in the background gives a perspective of the well field's location.

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# ENGINEERING NEWS AND NOTES

By David Odens, Banner Assoc. Inc.

Lewis & Clark is in the middle of another construction season and work is being advanced on many different fronts. A significant effort involves the inspection and administration of the construction contracts. The work in progress includes final cleanup and testing of raw water pipeline segments 1 and 2, construction of raw water pipeline segment 3, and construction of treated water pipeline segment 1.

While this work is in progress, the engineering team is also hard at work with the land acquisition team to obtain easements necessary to bid and construct the remaining segments of the treated water pipeline. We have submitted plans and specifications for review and approval for treated water pipeline segments 2, 3, and 4. These projects are expected

to go to bid later this summer and fall once the necessary easements and approvals are in place. We will also be awarding a contract in late August for a production test well at Site J, a short distance west of Clay County Park.

Progress has also been made on the design of treated water pipeline segments 5 through 8. These segments represent roughly 35 miles of 54" pipe. When these segments are constructed the trunk line will be completed from the treatment plant near Vermillion to Sioux Falls. The plan and profile sheets for these lines have been completed to the point necessary to identify the route on

each affected piece of property and identify where all the values and structures will be located. This information is essential for the land acquisition team, and serves as a basis for the exhibits that accompany the easement agreements.

Preliminary design of the proposed water treatment plant was authorized in 2004 and completed in January 2005.



Value-Engineering review of the water treatment plant this past February. A model of the plant is in the foreground.

This design effort included the plan for development of the water treatment plant site, and the floor plans and building elevations for the proposed buildings, as well as preliminary design of site utilities, treatment process equipment and piping, treated water clearwell and pumping station, and the process monitoring and control system. These documents were provided to a fourteen member Value Engineering Team for review and analysis. This team completed its work in February. The Value Engineering study has been completed and the accountability report summarizing the disposition of each of the proposals was delivered in May 2005. It is estimated that the imple-

mentation of the proposed changes will save well over \$2 million in the final cost of the treatment plant.

The Board has also authorized completion of the final design of the first segment of treated water pipeline in Iowa and preliminary design of the service lines in South Dakota. The Iowa segment will provide a connection between Sioux Center and Hull, which will permit the transfer of water from Sioux Center to Hull via L&C to meet Hull's short-term water needs. Easement acquisition efforts are currently underway on this segment. The design is being completed by HDR Engineering and will be ready for submittal of final plans and specifications later this fall. It is anticipated this segment will be bid

in early 2006. The South Dakota service line design will be advanced to the 35% design stage to provide plan and profile sheets and identify the locations of valves and structures. The development of the plans to this extent is necessary to provide the exhibits and details required by the right-of-way acquisition team for the easement documents so they can continue to move forward. These "service lines" include the pipe that will connect the following members to the trunk line – Beresford, Centerville, Lennox, Parker, South Lincoln RWS, Harrisburg, and Minnehaha Community Water Corp's connection east of Sioux Falls. Tea's service connection was included in an earlier service order.

# TREATED WATER PIPELINE - SEGMENT 1 CONSTRUCTION



A worker welds a bonding strip to connect two sections of pipe. This will provide electrical continuity for the cathodic protection system.



40' long pipe sections lined up along 467th Avenue, two miles west of the Tea-Ellis Road



36" diameter pipe being lowered into the trench



Workers install two blow off hydrants near a drainage way