

RUSHVILLE CITY COMMON COUNCIL
TUESDAY, DECEMBER 4, 2012
6:00 P.M.

The Rushville City Common Council met on the above date and time at 270 W 15th Street, Rushville, Indiana. Mayor Pavey called the meeting to order at 6:00 p.m., with Bob Bridges, Brian Conner, Craig Smith, Brad Berkemeier and Brian Sheehan answering roll call. Also present were City Attorney, Julie Newhouse, Melissa Conrad, *Rushville Republican*, and Starr Keller, WIFE Radio.

PUBLIC HEARING

Mayor Pavey opened the meeting for a public hearing on the Long Term Control Plan for the City Utilities. Pavey stated the purpose of the hearing is to update the Long Term Control Plan and the preliminary Engineering Report to Obtain a Loan from the Indiana Wastewater State Revolving Fund. He said we are required every 5 years to update the Long Term Control Plan. Pavey said Donahue & Associates will be giving a presentation later in the meeting. He asked for any comments or questions. There were none. Bridges made a motion to close the public hearing. Conner seconded the motion. The public hearing was closed.

MINUTES

Minutes of the November 20, 2012 meeting were presented for approval. Conner made a motion to approve the minutes as presented. Berkemeier seconded the motion. Motion carried.

MAYOR'S REPORT

Mayor Pavey reported the following:

- Thanked Jim Finan for his service to the City. Finan will be taking a position as Manager with Michigan Indiana Power in South Bend. His last day with the ECDC will be December 11th. Pavey said the ECDC will have a banquet December 20th from 5:00-7:00 at the 201 Building.
- The Senior Citizen Center has been awarded a grant/loan from the IHCDA which is a part of the Elderly in Place Program.
- The Board of Works agreed to allow Chief Jenkins to move forward with a transition plan for a City ambulance. Pavey said he is trying to get a meeting set up with the County Commissioners and Council. He is also still waiting to hear from the hospital in regard to their next meeting.
- The County Council approved a bid from Lane Excavating for \$10,192.50 for the Fraley Wilker Drain project.
- Congratulated the City Utilities for being awarded the 2012 Lab Excellence Award and the Safety Award.
- Met with FEMA and received some good information for the levee project.
- Met with Ivy Tech and discussed the future direction of our community and Ivy Tech.

- The INDOT walk through for 52 was today. Bids will be let in 2013 and construction in 2014.
- Will be traveling to Chicago on Friday for a pre-construction meeting on the North Industrial Park.
- Judge Hill received a grant to provide a Community Correction Program and they will be meeting next week.
- Attended a library meeting to discuss improvements to the design of the library.

CLERK-TREASURER'S REPORT

None.

COUNCIL PRESIDENT'S REPORT

Thanked the Rush County Cert Team for their help in the Decatur County crash.

COMMITTEE REPORTS

Comprehensive Plan – We will be taking requests for proposals at the next meeting.

Trash – Smith handed out a brochure on trash cans for Council to review for a cost analysis.

APC/BZA Building Code – Berkemeier is putting together a spread sheet indicating what other communities are doing as to a building code.

DEPARTMENT HEAD REPORTS

Police - Chief Tucker handed out his monthly report.

Tucker said Gerrish has completed his medical and psychological testing. He said he is expecting approximately 40-45 days before Gerrish will be able to begin working.

Street – Commissioner Miller gave the Board an outline of the levee area that they have been working on cleaning out damaged trees and stumps.

Animal – Animal Warden Moran said their intake this year is 696. 417 were County animals and 279 were City. 66 of those have been euthanized.

Fire – Chief Jenkins said we received RFP's for the energy audit. The only one received was from the Perfection Group. Mayor Pavey asked Jenkins to review the RFP and report back.

CITIZEN CONCERNS

None.

UNFINISHED BUSINESS

Redistricting – Bridges shared census information with Council. He said he did not have a printer that would print the map. He said he thought we were going to have to break out the blocks that are in question. Bridges reiterated that this has to be done by the end of the year.

NEW BUSINESS

Preliminary Engineering Report and Long Term Control Plan Update – Steven Gress from Donahue and Associates addressed Council with a power point presentation as to the purpose of the project. Gress stated that the project is to comply with the Agreed Order Schedule signed by Mayor Bostic February 19, 2008. The project would bring the Utility in compliance with IDEM.

The estimated cost of the project is \$7,613,000.00. Currently the interest rate for a SRF loan is 1.7%-2%. The projected cost in 5 years would increase by approximately \$1,142,000.00. The expected increase of interest in 5 years would be 2%-3.5% for an increase of approximately \$1,611,000.00. Therefore, the projected increase in the cost of the project if we wait 5 years is \$2,753,000.00.

Questions from those present:

1. What would the annual cost be to run the new facility? **Response:** Relative minor, an estimated increase of 10%.
2. Were there any local complaints or is it all mandated by the Feds or State? **Response:** Few complaints. The agreed order is forcing compliance with a federal policy to eliminate CSO's.
3. After the project is complete what is the next step? **Response:** Nothing major this should solve the problem.
4. When would we have a rate increase? **Response:** Before the loan is in place.
5. Will this set us up for future growth? **Response:** Yes, it will allow for future growth.
6. Will this impact the City's debt limit? **Response:** Yes.

Mayor Pavey said the rate study that was just completed did not include all of these pieces. He will be having a meeting with Crowe to discuss this.

CITY OF RUSHVILLE

Public Hearing
for
**CSO LTCP Update & CSO Treatment
Facility and WWTP Improvements
Project Preliminary Engineering Report**

December 4, 2012

Presented by:

Steve Gress – Donohue & Associates, Inc.



Public Hearing Agenda

- A. Welcome and Introductions
- B. Public Hearing Purpose
- C. Combined Sewer Overflow (CSO) Example & Operation
- D. Project Needs and Goals
- E. Overview of Long Term Control Plan (LTCP) Update Process
- F. Overview of PER & SRF Process
- G. Proposed CSO Treatment & WWTP Improvements Project
- H. Project Schedule
- I. Estimated Cost of Project
- J. Project Funding
- K. Public Questions and Comments

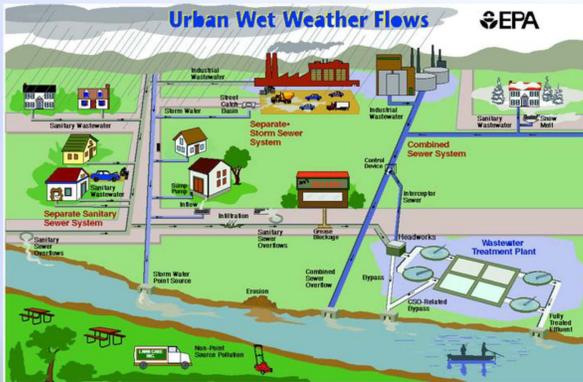


Public Hearing Purpose

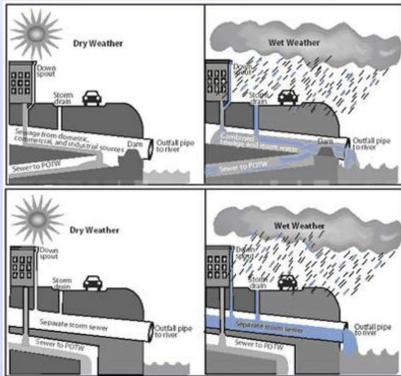
- Discuss the Project Needs and Goals
- Discuss the LTCP Update
- Discuss Proposed Project Work to be Funded by an Indiana State Revolving Fund (SRF)
- Comply with SRF Loan Requirements
- Discuss Project Funding
- Provide Opportunity for Public Participation



Example of Separate & Combined Sewer Systems



Operation of Sanitary vs. Combined Sewer Systems



Recent Rushville CSO 101 Events

| Year | Annual Rainfall (in.) | Annual No. of CSO Events ¹ | Annual CSO Volume (MG) |
|-------------|-----------------------|---------------------------------------|------------------------|
| 2009 | 52.27 | 13 | 28.22 |
| 2010 | 41.49 | 8 | 50.55 |
| 2011 | 60.78 | 12 | 99.27 |
| Avg. | 51.51 | 11 | 59.35 |

1. Based on EPA (US Environmental Protection Agency) definition of wet-weather CSO events as storm events greater than 0.1" and at least 72 hours from the previously measurable storm event



Project Goals

- Implement IDEM* Nonrule Policy Document (NPD) Water-016 design solution to make CSO treatment more affordable and easier to operate
 - Eliminate all CSO discharges for 1-Yr., 1-Hr. rain event (1.16") and smaller
 - Provide 30 minutes detention for peak hourly CSO flow in excess of WWTP capacity for a 10-Yr., 1-Hr. rain event (2.00")
 - Comply with *E. coli* NPDES Permit Limit for a 10-Yr., 1-Hr. rain event
 - Provide capability to process peak CSO flow rates from rain events greater than 10-Yr., 1-Hr. event
- Eliminate untreated discharges from CSO No. 101 for greater than a 1-Yr., 1-Hr. rain event
- Replace WWTP equipment that has been in service for more than 39 years



*Indiana Department of Environmental Management (IDEM)



LTCP UPDATE

- Prepared IDEM required 5-year Update of LTCP approved in November 2007
 - Since 2007 Rushville has completed the Phase 1 Implementation Project – eliminated CSO 003
 - Update addresses planning modifications for the Phase 2 & 3 Projects
 - One remaining phase now proposed
 - New CSO versus rainfall data has been collected for remaining CSO 101 after Phase 1 completion



LTCP UPDATE

- Entire text for LTCP has been updated as per IDEM directive
 - Original LTCP sections are shown in blue text
 - Updated LTCP sections are shown in black text
- Modifications made are as follows:
 - Updated capital cost estimates for 3 previously evaluated approaches
 - Evaluated a new CSO storage/treatment approach that was found to be more cost effective



CSO Storage/Treatment Facility



LTCP APPROACH COMPARISON

| Approach | Advantages | Disadvantages | 2012 Total Capital Cost Est. |
|---|---|---|------------------------------|
| A – Sewer Separation | <ul style="list-style-type: none"> •Permanent Separation •Eliminates Use Attainability Analysis | <ul style="list-style-type: none"> •Sanitary sewer overflows often a problem | \$13,050,000 |
| B – Offline Storage | <ul style="list-style-type: none"> •Store all CSO's for full treatment •Eliminates Use Attainability Analysis | <ul style="list-style-type: none"> •Estimated Size Excessive (4.5 MG) •Incremental Environmental Impact | \$16,300,000 |
| C – Secondary Treatment Expansion & High Rate Clarification | <ul style="list-style-type: none"> •Preliminary, primary and disinfection treatment for all CSOs •Small Footprint | <ul style="list-style-type: none"> •Relies on emerging Technology •Difficult to operate with high operational costs •Hydraulic capacity limitations in WWTP • May Need a Use Attainability Analysis | \$8,600,000 |
| D - CSO Treatment Facility & Prelim. Trt. Upgrade | <ul style="list-style-type: none"> •Preliminary, primary & disinfection treatment •Less complex operation •Eliminates Use Attainability Analysis | <ul style="list-style-type: none"> •Larger footprint than Approach C •Separate disinfection and sampling facilities | \$6,970,000 |



LTCP UPDATE

- **Additional Modifications:**
 - Evaluated new rainfall vs. CSO volume data from January 2009 thru February 2012 to predict required CSO storage volume as per NPD Water-016
 - Previous Recommended Approach Deletions:
 - Construction of a 4th secondary clarifier due to upstream hydraulic limitations in WWTP
 - Conversion of chlorine disinfection system to UV disinfection
 - Construction of a high rate ballasted clarification process for CSO treatment

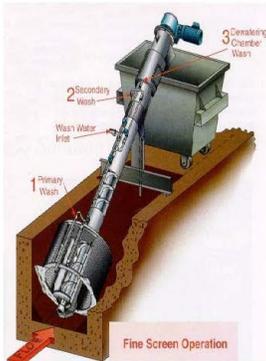


LTCP UPDATE

- Additional Modifications:
 - Revised Recommended Approach:
 - Replace existing ≈ 5 MGD inclined cylindrical screen with a 12 MGD chain driven bar type screen and screenings compactor
 - Replace existing 39-year old grit removal mechanism and classifier equipment
 - Construct a 0.95 MG CSO storage/treatment facility with chlorination disinfection and dechlorination of overflow
 - Construct an 8 MGD wet weather excess flow pump station



Existing & Proposed Screen Types

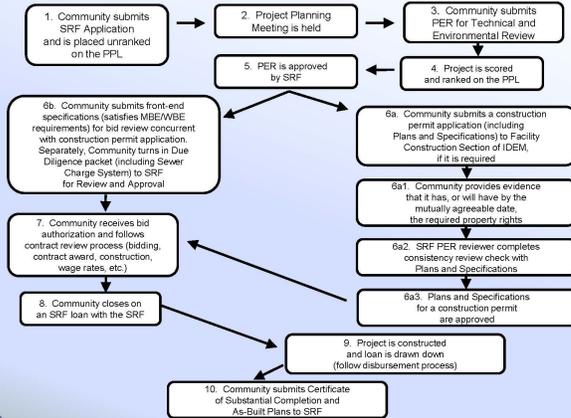


LTCP UPDATE

- Additional Modifications:
 - Revised Financial Capability Section based on new recommended approach and updated interest rate and other financial factors
 - Edited the Use Attainability Section because it is not required for recommended approach based on NPD Water-016 design criteria
 - Updated the compliance monitoring to reflect requirements for recommended approach based on NPD Water-016 effluent sampling requirements



Overview of PER & SRF Process



Rushville CSO Treatment Facility PER Conceptual Design Information

1-Yr., 1-Hr. Storm (1.16") Flow Volume = 0.73 MG x 1.3 sf = **0.95 MG**

10-Yr., 1-Hr. Storm (2.0") Peak Influent Flow Rate = 11.5 – 4 = 7.5 MGD

Ultimate Storm (≈ 6.8") Peak Influent Flow Rate ≈ 12 – 4 = 8 MGD (Twice Interceptor Sewer Capacity)

Minimum Required Storage Volume

0.95 MG Total Storage for 1-Yr., 1-Hr. Storm

0.16 MG Total Storage for 30-minute detention of 10-Yr., 1-Hr. Storm

0.08 MG Storage for 15-minute detention of 10-Yr., 1-Hr. Storm in 2nd tank

3 to 4 Log Reduction for *E. coli* to Daily Maximum of 235 colonies/100ml followed by Dechlorination to 0.4 mg/l Chlorine



CSO Treatment Facility & WWTP Improvement Project



Proposed Project Components

- Replace existing \approx 5.0 MGD inclined cylindrical screen with a 12.0 MGD chain driven bar type screen and screenings compactor
- Replace existing 39-year old grit removal mechanism and classifier
- Construct an 8 MGD wet weather excess flow pump station
- Construct a 0.95 MG CSO storage/treatment facility with chlorination disinfection and dechlorination of overflow
([Selected Alternative C Layout](#))
- Replace 2 existing constant speed blowers with more efficient style blowers and motors with variable speed drives
- Install an automatic DO control system



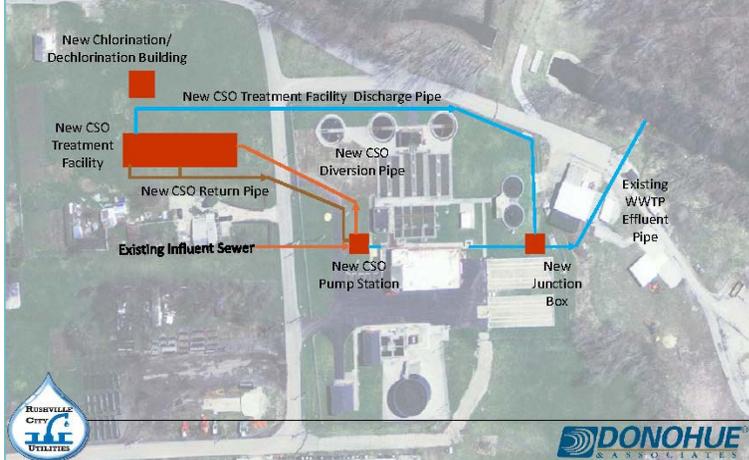
Existing Screen Proposed to be Replaced



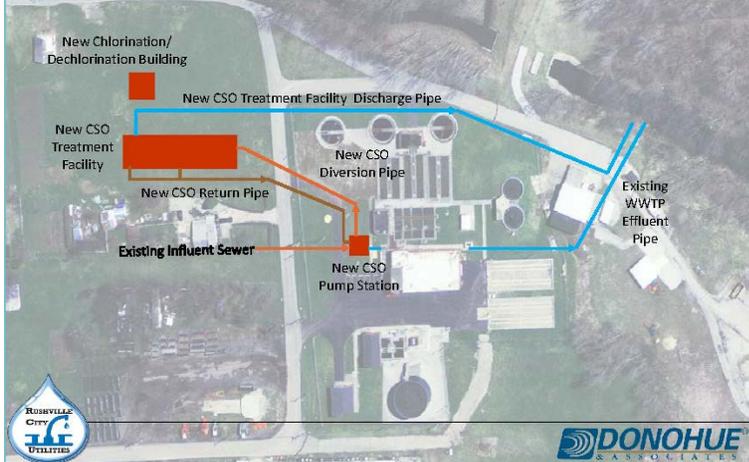
Existing Grit Removal Equipment Proposed to be Replaced



CSO Trt. Facility Alt. A Layout



CSO Trt. Facility Alt. B Layout



CSO Trt. Facility Alt. C Layout



Existing Blower Equipment Proposed to be Replaced



Preliminary Project Schedule

**Table 6-2
Preliminary Project Schedule**

| Task | Approximate Date |
|---|--------------------|
| Public Hearing | Dec. 4, 2012 |
| Submit PER to Indiana SRF | Jan. 21, 2013 |
| Anticipated PER Approval | May 2013 |
| Plans & Specs Submitted to IDEM | August 2013 |
| Plans & Specs Approval by IDEM | October 2013 |
| Land & Easement Acquisition | Not Required |
| Advertise for Bids | October 2013 |
| Receive Bids | November 2013 |
| Loan Closing | December 2013 |
| Contract Award | January 2014 |
| Initiation of Construction | February 2014 |
| Substantial Completion of Construction | August 2015 |
| Initiation of Operation | August 2015 |
| Final Completion of Construction | October 2015 |



Estimated Non-Construction Costs

**Table 6-1 Part 1
Selected Plan Cost Summary**

| Item | Total Cost |
|--|--------------------|
| Non-Construction Costs | |
| Administrative and Legal | \$63,500 |
| Financial | \$63,500 |
| Land & Rights-of-way Acquisition | \$0 |
| Relocation | \$0 |
| Planning Engineering (LTCP Update & PER) | \$82,400 |
| Project Engineering Fees | |
| Design | \$510,000 |
| Bidding Services | \$32,000 |
| Construction Related Services | \$255,000 |
| Project Inspection | \$286,000 |
| Costs Related to Plant Start-up & Training | \$32,000 |
| Non-Construction Subtotal | \$1,324,400 |
| Total Non-Construction Costs without Planning | \$1,242,000 |



Estimated Construction & Total Project Costs

| Table 6-1 Part 2 Selected Plan Cost Summary | |
|---|--------------------|
| Item | Total Cost |
| Non-Construction Cost Subtotal | \$1,324,400 |
| Non-Construction Cost Subtotal without Planning | \$1,242,000 |
| Construction Costs | |
| WWTP Preliminary Treatment Improvements | \$2,521,000 |
| CSO Storage & Treatment Facility | \$2,787,000 |
| WWTP Aeration System Improvements | \$484,000 |
| Contingencies (10%) | \$579,000 |
| Total Construction Cost | \$6,371,000 |
| Total Project Cost w/o Planning | \$7,613,000 |
| Total Project Cost with Planning | \$7,695,400 |



Project Funding

- Project is proposed to be funded or partially funded by an SRF loan
- Current estimate assumes borrowing approximately \$7,613,000 for all CSO Treatment Facility and WWTP improvements (w/o planning cost)
- Interest rates could range from $\approx 1.7\%$ to 2.0%
- SRF interest rate adjustments typically take place in January, April, July, and October of each year
- Anticipate a wastewater user fee rate increase for project
- Final rate increase is dependent on several factors
 - Fixed interest rate on SRF loan, construction bidding market, available alternative funding, Utility revenue, etc.



Proposed Project Schedule Advantage For SRF Loan

- Construction cost inflation has increased slightly over 15% during past 5 years
 - Present project cost estimate = \$7,613,000
 - Projected project cost in 5 years = \$8,755,000
 - Projected cost increase in 5 years = \$1,142,000
- SRF interest rates are expected to increase from 2% up to 3.5% in 5 years
 - Estimated 20-year loan interest cost for 2% = \$1,954,000
 - Estimated 20-year loan interest cost for 3.5% = \$3,565,000
 - Estimated additional interest payment = \$1,611,000
- Estimated Additional Cost if project is delayed 5 years = **\$2,753,000** or an increase > 30%



Public Questions and Comments



Additional Public Input is Welcome

- Written or email comments will be accepted until:
 - December 12th at 1:00 p.m.
- Send additional comments to:

Steven P. Gress
Donohue & Associates, Inc.
101 West Ohio St., Suite 820
Indianapolis, IN 46204
sgress@donohue-associates.com



Petition to Abandon Alley 986 South Donald Street – Pavey said he will be sending out a letter to inform the resident that they need to present a petition to begin this process.

ITEMS NOT KNOWN IN ADVANCE

Resolution 2012-17 (Senior Citizen Center Grant) – A Resolution to accept money in the form of a loan from the Affordable Housing and Community Development Fund and administered by Indiana Housing and Community Development Authority. Sheehan made a motion to approve Resolution 2012-17. Berkemeier seconded the motion. Motion carried.

Resolution 2012-18 (Senior Citizen Center Grant) – A Resolution to accept money in the form of a recoverable grant from the Affordable Housing and Community Development Fund and administered by Indiana Housing and Community Development Authority. Sheehan made a motion to approve Resolution 2012-18. Berkemeier seconded the motion. Motion carried.

INTAT Tax Abatement – Pavey informed Council that they will be receiving paperwork from INTAT requesting tax abatement. This will be acted upon at the next meeting.

Claims – Sheehan made a motion to approve the claims as presented. Bridges seconded the motion. Motion carried.

There was no further business to come before Council; Smith made a motion to adjourn. Berkemeier seconded the motion. The meeting adjourned at 8:00 p.m.

MICHAEL P. PAVEY, MAYOR

ROBERT M. BRIDGES, MEMBER

BRIAN G. CONNER, MEMBER

CRAIG A. SMITH, MEMBER

BRADLEY A. BERKEMEIER, MEMBER

BRIAN J. SHEEHAN, MEMBER

ATTEST:

ANN L. COPLEY, CLERK-TREASURER