

## ZIONSVILLE WASTE WATER DEPARTMENT 2011 YEAR END REPORT



- The Waste Water Plant treated a total of 431 million gallons this year. This averages out to 1.18 million gallons per day and represents an increase of 190,000 gallons per day from the previous year. We recorded a total of 52.2 inches of precipitation this year compared to 38.8 inches for the previous year.
- The yearly average removal efficiency of the treatment plant in regards to Total Suspended Solids improved from 97% to 98% and the removal of BOD remained steady at 98%. Ammonia removal remained steady at 99% and the removal of phosphorous improved from 87.6% to 88.8%.
- The wastewater department had five violations of our operating permit this past year compared to none in 2010 and five in 2009. Three of those violations were weather related caused by excessive flows from rainfall events. One of those was aggravated by the Zionsville Road Sewer Extension Project when one of the Contractor's employees left off a bolt down manhole cover in the Eagle Creek flood plain. This allowed flood waters to enter the manhole and overwhelm our Main Lift Station and the treatment plant. One of the other violations was from a backup caused by roots in a main sewer line and the other violation was a result of a small diameter force main that leaked due to an unknown contractor that damaged the line and then did an improper repair.
- Since establishing the yearly sewer rehabilitation program back in 2002, we have repaired and/or replaced 29,430 lineal feet of sanitary sewers. This program outlines sewer projects scheduled through the year 2012. This last year's project consisted of relining 3,655 lineal feet of 8, 10, 12, and 15-inch clay sewers located within the village area and also 1,575 lineal feet of the 12in Colony Woods Trunk sewer. In addition to the sewer relining, nine manholes were rehabilitated within the project area.
- Two automatic alarm systems were added to our lift stations last year. These systems use cellular technology to monitor critical operations such as pump failures, power loss, and high level conditions and call out to plant personnel when an alarm condition is triggered. Presently, all 24 of our lift stations have this system installed on them.
- Construction began in 2010, and was finally completed in 2011, for the South Zionsville Road Sewer Project. This project consisted of a combination of both gravity and forced main sewers within the area east of Zionsville Road and north of 106<sup>th</sup> Street. Also included was the installation of a small diameter force main to serve a recently annexed area on the west side of Michigan Road and south of Templin Road. Through the efforts of the Town Manager and Town Council, the Town obtained partial financing from the State in the form of a forgivable loan with the balance of the project paid through TIF district funds.

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- Technical assistance was provided to the Sanitary Sewer Master Plan Working Group and Commonwealth Engineering in the development of a sewer master plan for the reorganized Town of Zionsville. That plan was adopted by the Zionsville Town Council in September of 2011.
- Costs for the Waste Water Department have been monitored and contained within the approved operating budget for 2011.