

sew' er so ci ol'ogy, the science of society, social institutions, and social relationships viewed through the eyes of a sewer; specifically the systematic study of the development, structure, interaction, and collective sewer use of organized groups of human beings.

Slot Machines and Sewers

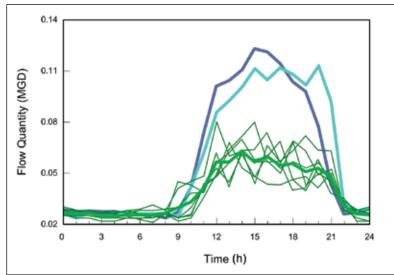
Kevin L. Enfinger and Patrick L. Stevens

ost sewer flows are characterized by repeatable diurnal patterns that vary across weekdays, weekends, and holidays. Differences in land use are also apparent, and distractions and disruptions of daily life can often be observed. This

month, we take a look at life in a casino through the eyes of

A composite hydrograph from a flow monitor located downstream from a casino in Southern California is provided in the figure to the right. Weekdays are shown in green, Saturdays are shown in light blue, and Sundays are

Sewer Use at Casino





Operation of Municipal Wastewater Treatment Plants — MOP 11, 6th Edition, www.wef.org/mop11



Design of Municipal Wastewater Treatment Plants — MOP 8, 5th Edition, www.wef.org/mop8

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shown in dark blue. The casino operates from 10 a.m. to 9 p.m. Monday through Saturday and from 10 a.m. to 7 p.m. on Sunday.

Sewer flows increase dramatically on Saturdays and Sundays with increased weekend activity at the casino. The difference in closing times between Saturday and Sunday also is observed.

Some win, some lose, and, hopefully, everyone has a good time. Whether or not some people figuratively flush their money down the sewer, the flow monitor does not reveal.

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Looking Ahead

Coming up in the July issue ...

Clearing the Air

Odor and emissions control is a critical element of wastewater treatment. It can make or break your relationship with the community. And successfully capturing odors requires scrutiny of just about every process in a plant. In the July issue, we feature the odor control systems at an award-winning, state-of-the-art biological nutrient removal plant. You'll get an inside look at the design, commission, and troubleshooting of a biofiltration system that has operated for more than a year without any odor complaints. The Certification Quiz will give you a chance to brush up on where odors come from and how to best prevent and handle them.

Also in this issue:

- Microconstituents: A California plant examines how well its treatment processes remove compounds from wastewater and biosolids.
- Stormwater: A park renovation project shows that stream restoration and stormwater management can go hand in hand.
- Process optimization: An operator's view on getting the most from your environmental management system investment. Plus, how a Montana plant's minor changes resulted in major improvements in its nutrient removal performance.
- Industrial treatment: A winery uses a microbial-electrolysis-cell reactor and wastewater to generate hydrogen.

