

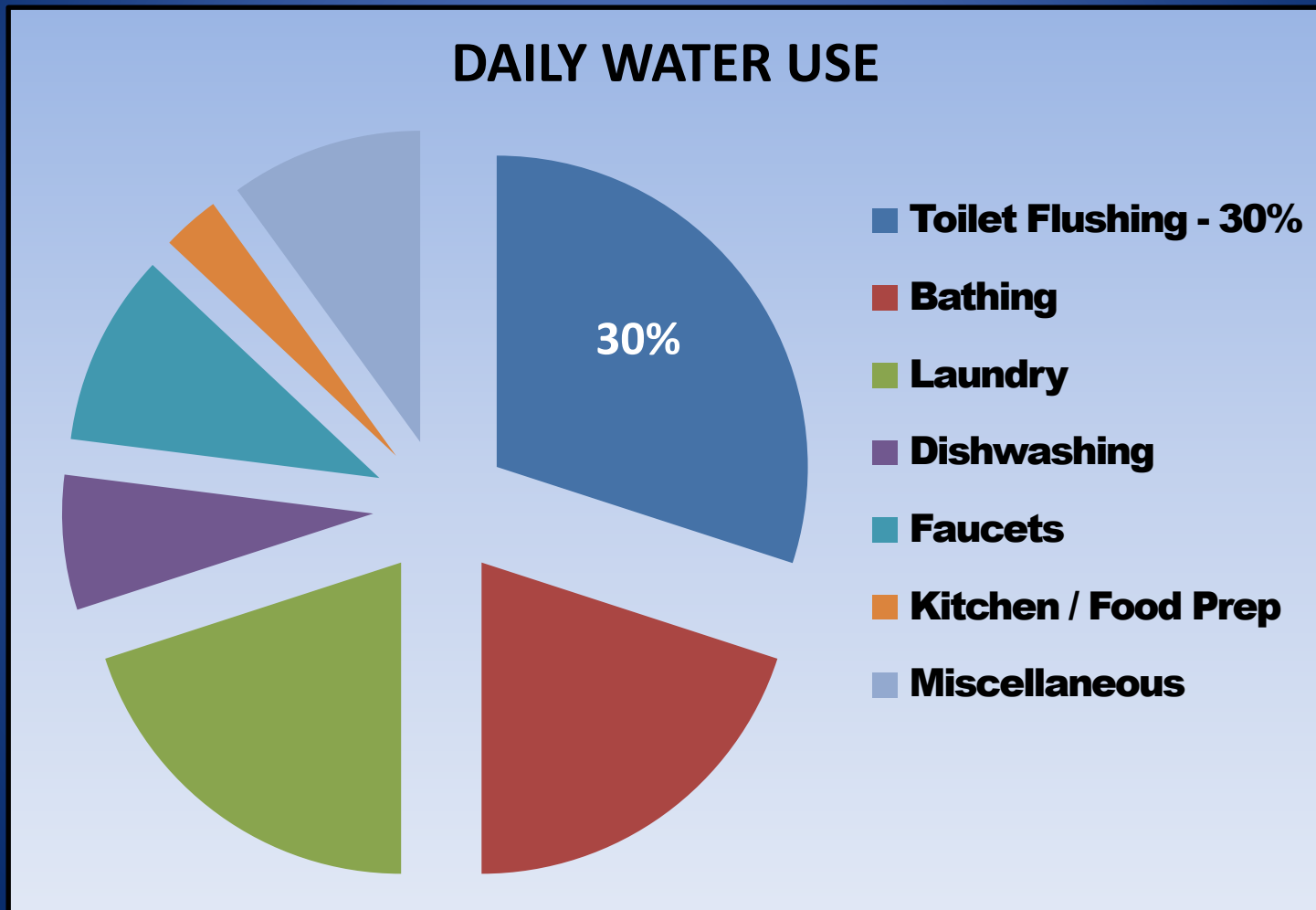
**WASTEWATER TREATMENT AND RE-USE  
FENNER NATURE CENTER  
Lansing, MI**

**Michigan Onsite Wastewater  
Treatment Conference**

**Kellogg Conference Center  
East Lansing, MI**

**January 15, 2020**

# When at home . . .

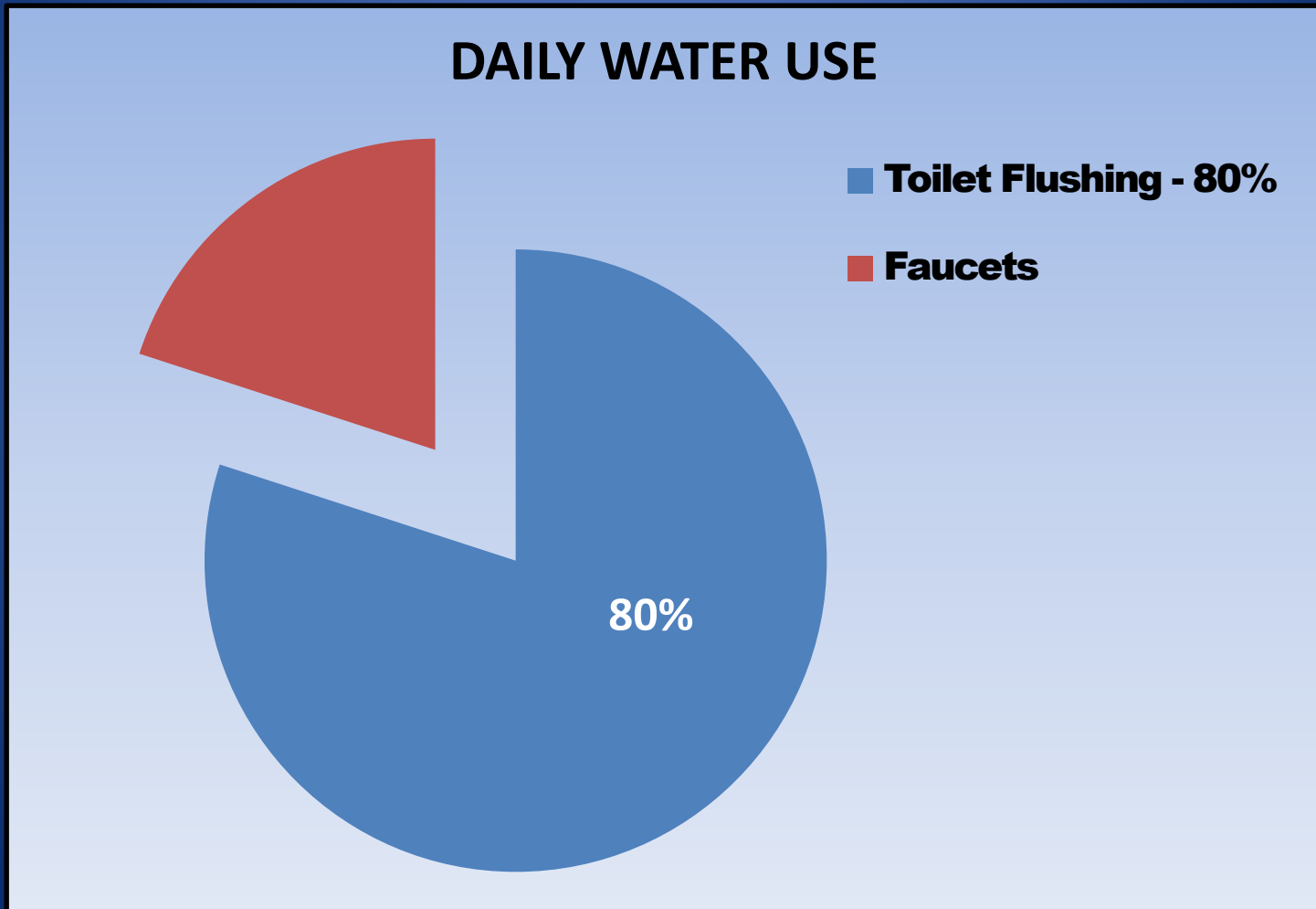


**How much of your day is spent at home?**

**How much of your life is away from home?**

- Elementary school
- High school
- College
- Work, office
- Sporting events
- Theater, movies
- Shopping
- Entertainment

# When away from home . . .





**So, if we capture, treat and re-use our wastewater for flushing only . . .**

- We save 30% of the water we treat, move, use, move again, and treat in residential buildings.**
- In public restrooms we can use our water 5 times before either dispersing it in a SAS or sending it down to the sewage treatment plant.**

**ENERGY  
SAVINGS!**

**WATER  
SAVINGS!**

**So, if we capture, treat and re-use our  
wastewater . . .**

**Smaller Soil Absorption Component**

**Less stress on our infrastructure**

SUSAN & JACK DAVIS  
NATURE PAVILION

**WELCOME TO THE FENNER PRAIRIE**

**ABOUT THE PRAIRIE**  
This prairie is a remnant of a once vast prairie landscape that once covered the entire Midwest. It is a rare and valuable resource that provides habitat for many native plants and animals. The prairie is also a great place to learn about the history and ecology of the region.

**PLANT LIFE**  
The prairie is home to many native plants, including wildflowers, grasses, and shrubs. These plants are adapted to the dry conditions of the prairie and provide food and shelter for many animals.

**ANIMAL LIFE**  
The prairie is home to many native animals, including birds, insects, and mammals. These animals are adapted to the open, grassy landscape of the prairie.



**Map Labels:**  
Fenner Prairie  
Pavilion  
Prairie  
Road

**Logos:**  
Illinois Natural History Survey  
Fenner Prairie

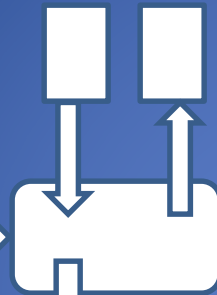
# FLOW DIAGRAM

ALL WASTEWATER  
FROM BUILDING



ST

AX UNITS



RT

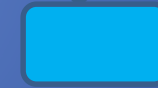


DT

SAND FILTERS



UV & CL



STORAGE

BACK TO  
BUILDING



SMALL DF











2019.09.30





























2019.10.01





Greenberg  
**Fiberglass Tank**  
Model Number: FT-1000  
Model Capacity: 1000 Gallons

2019.10.01





2019.09.30





2019.10.01





**Drenco**  
PVC Riser Installation

2019.10.01





2019.10.01





2019.10.01





2019.10.01





2019.09.30





2019.10.01













2019.10.01













2019.10.01









2019.10.01









2019.10.01











































**crenco**  
SYSTEMS

POWER

CAUTION  
ELECTRIC SHOCK  
Hazardous Voltage



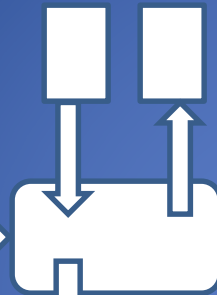
# FLOW DIAGRAM

ALL WASTEWATER  
FROM BUILDING



ST

AX UNITS



RT



DT

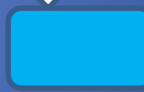
SAND FILTERS



UV & CL



STORAGE



BACK TO  
BUILDING



SMALL DF





# A BIG THANK YOU TO . . .

- Infiltrator
- Roth
- Orenco
- Milan Supply
- Valley Farms Supply
- Salcor
- Norweco
- SCS Systems LLC
- Stephens Consulting
- Pitylak Excavating
- Family Grade and Gravel
- MOWRA

**And NUMEROUS  
volunteers that gave of  
their time to build this  
valuable teaching tool**