LESSONS LEARNED

OPERATIONS
• DEEP OWNER COMMITMENT
• LICENSED OPERATOR (24-HOUR AVAILABILITY)
• MUNICIPAL-LEVEL MONITORING FOR SINGLE BUILDING
• AUTOMATED DAILY MEASUREMENTS

CONTROLS & METERING
• INTEGRATING UNUSUAL SYSTEMS INTO BMS
• METERING ACCURACY/LANGUAGE
  • WATER CANNOT BE MEASURED LIKE ELECTRICITY!
• “SURPRISE” PURCHASES
  • COMM CENTER, STANDBY SENSORS, PH METER, ETC…, ETC.
GREYWATER TREATMENT
GREYWATER COLLECTION
UNDERSTAND THE INPUT
• IMPACT OF COFFEE WASTEWATER
  • ODOR
  • CLOGS
  • LEVEL OF MAINTENANCE

TROUBLESHOOTING
• INCORPORATE INTO DESIGN
  • CONTINGENCY PLANNING
• ITERATIVE PROCESS
  • IDENTIFY, IMPLEMENT, RE-EVALUATE
• START AT THE SOURCE
  • DIVERSION OF DAIRY WASTE
• CREATIVE SOLUTIONS
  • “FLEXIBLE FINE PARTICLE SCREEN” – A.K.A. PANTYHOSE
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COMPOSTING TOILETS
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- COMMERCIAL COMPOSTING TOILET SYSTEM
- NEAR-ZERO WATER DEMAND
- WATERLESS (KERN CENTER) & FOAM FLUSH (HCE)
- “HANDS-ON” MAINTENANCE
  - STIRRING OF COMPOST BIN
  - REMOVAL OF COMPOST SOILDS
  - AND LIQUID WASTE “TEA”
LESSONS LEARNED

TROUBLESHOOTING
• COPPER FITTING CORRODING

USER EXPERIENCE
• FOAM VS STRAIGHT DROP

MAINTENANCE
• TANKS FILLED QUICKLY
• COLLEGE - PROCESSING LIQUID INTO FERTILIZER – PILOT PROJECT
• VERMONT HAS PILOT CANT CROSS STATE BORDER
STORMWATER MANAGEMENT
GREYWATER TREATMENT
COMPOSTING TOILETS
MEASUREMENT AND MONITORING

- MONITOR 12 MONTHS OF OCCUPANCY
- INTERACTIVE DASHBOARD
- ACADEMIC STUDY
- PERMIT COMPLIANCE