Westin Bonaventure Laundry Recycling Project

Startup Date	Aug-14
Months in Operation	99
Projected Payback in Months	12
Actual Payback in Months	6

Summary of Savings	Cumulative
Water / Sewer Savings	$680,588
Energy Savings	$246,563
Total Savings	$927,150
Annualized Return on Investment	112%

ENVIRONMENTAL IMPACT STATEMENT	This Month	Cumulative	
Greenhouse Gas (GHG) Emissions Reductions	-	2,054.69	MT of CO2
Increase of Drinking Water to the Public		54,490,604	gallons
Reduction of Wastewater Discharge to the Environment		49,041,544	gallons
Increase of Natural Gas Resources	-	342,448	gallons
Reduction of Toxins Discharged to the Sewer Systems	-	24,521	LBS of TOCs

Step #1: High Efficiency laundry machines are used to clean linen, towels, sheets, etc. at the Bonaventure's laundry facility. Waste wash water is sent to the sump.

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Step #2: Wash waste water is pumped from the sump to the lint shaker. Lint and wash debris are removed and disposed of as a non-hazardous solid.

Step #3: Waste water from the lint shaker system is pumped through this suspended solids filter, which uses a fine filtration media to filter the recycle water down to 5 microns in particle size or less.

Step #4: Wastewater from the suspended solids filter is sent to the carbon absorber to remove, oil, grease, soap & organics. Standing next to the filter is the Westin Bonaventure's Director of Engineering, Patrick Serge.

Step #5: Waste water runs through Ultraviolet & Activated oxygen disinfection, to kill bacteria and viruses.

Step #6: The reuse water is kept in this tempered holding tank until it is needed by the washing machines. This is the final step of the recycling process

Recycle System Process Flow Diagram