

## Memo

**DATE:** March 10, 2011

**TO:** 10-41-025.0 File (1) Nashville

**CC:** Andrew Lynn - CDM

**FROM:** Bo Butler Houston

**RE:** Franklin IWRP – Reclaimed Water Demand Projections  
I-65 Corridor Fort Lauderdale

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Sarasota

An additional analysis of the properties along Interstate 65 that might be served by the proposed I-65 Connector reclaimed water line was completed. The existing residential properties along this corridor were not included because serving individual households would require an additional distribution system to be installed within each subdivision that would be served. It is not anticipated that the City will require this type of retrofit in order to bring additional customers online. It is also not anticipated that existing residential subdivisions will wish to incur the expense of installing an additional system in their areas. However, all undeveloped properties were included and a 20% factor was applied to the total acreage that might more accurately describe the actual irrigated area that would be served, given that most of the remaining properties are set for commercial development. An irrigation rate of 2 inches per week was applied to the corrected irrigated area for each section defined in Table A below.

Memphis

Phoenix

Dallas

The analysis yields an additional average daily flow of 1,608,500 gallons per day with a peak flow of 3,260,000 gpd.

**Table A**

<i>Franklin Reclaimed Water System</i>						
<i>Potential Demand – Interstate 65 Corridor</i>						
<i>No.</i>	<i>Name</i>	<i>Customer Type</i>	<i>Irrigated Area (acres)</i>	<i>Ave. Daily Demand (GPD)</i>	<i>Max. Daily Demand (GPD)</i>	<i>Distribution Line</i>
<i>1</i>	Liberty Park	Recreational	63	240,000	489,000	I-65
<i>2</i>	Properties- Cool Springs Blvd to Moore's Lane	Residential, Commercial	98	375,000	760,300	I-65
<i>3</i>	Properties- McEwen to Cool Springs Blvd	Residential, Commercial	120	460,000	931,000	I-65
<i>4</i>	Properties- McEwen to Murfreesboro Rd.	Residential, Commercial	35	134,000	272,000	I-65
<i>5</i>	Properties – S. Carothers Road	Residential, Commercial	10	38,500	78,000	I-65
<i>6</i>	Liberty Park Area Properties	Residential, Commercial	68	261,000	528,000	I-65
<i>7</i>	Centennial High School	Institutional	26	100,000	202,000	I-65
<b>Totals</b>			<b>420</b>	<b>1,608,500</b>	<b>3,260,000</b>	