



**CITY OF ATLANTA - DEPARTMENT OF WATERSHED MANAGEMENT
 CLEAN WATER ATLANTA - PROGRAM MANAGEMENT TEAM**

**230 Peachtree Street, Suite 500, Atlanta, GA 30303 Phone: (404) 979-6999
 FAX: 5th Floor - (404) 979-3131 2nd Floor - (404) 979-3132**

**DATE: AUGUST 18, 2005
 TO: JOE BASISTA AND TINA ARBES
 FROM: MAKSON ESAN
 CC: JANET WARD, SEAN SEARLES, TIM SMITH**

**LAST REVISION DATE:
 WBS CODE: 06.07.000
 FILE CODE: 03.00**

SUBJECT: CITY OF ATLANTA BELTLINE REDEVELOPMENTS : OVERVIEW OF PROJECT AREAS WITH SEWER CAPACITY CONSTRAINTS

Background

EDAW Inc. submitted a spreadsheet of Beltline redevelopment projects and GIS shapefiles of numbered project areas for the PMT to perform a sewer capacity analysis as follows:

- Determine problem areas in terms of sewer capacity constraints
- Determine necessary improvements to overcome sewer capacity constraints
- Determine timeframe for achieving the sewer capacity improvements

This memorandum provides an overview of problem areas in terms of sewer capacity constraints. The necessary improvements and timeframe will be addressed in subsequent memoranda.

Summary of Sewer Capacity Analysis

The number of redevelopment projects in each quadrant and estimated wastewater flows based on sewer capacity limitation status are summarized in Table 1 from Attachment 1:

Table 1

Summary of sewer capacity limitation status for Beltline Redevelopment Projects

Quadrant	Number of Redevelopment Project Areas/Estimated Wastewater Flow in MGD				Totals (No./MGD)
	Non-capacity limited (combined sewer area) (No./MGD)	Non-capacity limited area (separate sewer area) (No./MGD)	Capacity limited area (with available credits) (No./MGD)	Capacity limited area (requiring conditional permits) (No./MGD)	
North West	11/0.877	14/2.368****	17/1.252	-	42/4.497
North East	23/1.805*	12/1.843	2/0.782	8/0.782	45/5.212
South East	24/2.345**	2/0.470	5/0.011***	-	31/2.826
South West	18/1.002	-	10/0.761	1/0.154	29/1.917
Totals	76/6.029	28/4.681	34/2.806	9/0.936	147/14.452

Includes Project Areas shown on Attachment 2 with no development descriptions provided to estimate flows: * - NE02, ** - SE28, *** - SE21, SE24, SE13, SE27, **** - NW27, NW31

Conclusions

- Approximately 52% of the redevelopment project areas are located in non-capacity limited combined sewer area of the City. The estimated wastewater flow for these redevelopment project areas is 6.029 MGD. This excludes project areas NE02 and SE28 for which development descriptions were not provided in spreadsheet.
- Approximately 19% of the redevelopment project areas are located in non-capacity limited separate sanitary area of the City. The estimated wastewater flow for these redevelopment project areas is 4.681 MGD. This excludes project areas NW27 and NW31 for which development descriptions were not provided in spreadsheet.
- Approximately 23% of the redevelopment project areas are located in capacity limited areas with available credits. The estimated wastewater flow for these redevelopment project areas is 4.681 MGD. This excludes project areas SE21, SE24, SE13, and SE27 for which development descriptions were not provided in spreadsheet. The capacity credit balance as of August 11, 2005 is as follows:
 - North West/Browning and Other Proctor Areas: 1,154,677 GPD in Basic credit bank, 35,000 GPD reserved for Minor Flows
 - North East/Buckhead Area: 95,088 GPD in Basic credit bank, 5,000 GPD reserved for Minor Flows
 - South East/Sugar Creek Basin and Federal Prison Area: 1,992,282 GPD in Basic credit bank, 20,000 GPD reserved for Minor Flows
 - South West/North Utoy Area: 58,508 GPD in Basic credit bank, 7,500 GPD reserved for Minor Flows
- Approximately 6% of the redevelopment project areas are located in capacity limited areas requiring conditional permits. The estimated wastewater flow for these redevelopment project areas is 0.936 MGD and the capacity credit balance as of August 11, 2005 is as follows:
 - North East/Los Angeles Area: -930 GPD in Basic credit bank, 91 GPD reserved for Minor Flows
 - South West/Tenth Ward Area: -511 GPD in Basic credit bank, 0 GPD reserved for Minor Flows

List of Attachments

- Attachment 1 – Summary of Beltline Redevelopment Projects (sorted by Capacity Limited Basins/Areas)

- Attachment 2 – Map of City of Atlanta Beltline Redevelopment Projects and Capacity Limited Basins/Areas