

Calculate proposed domestic and wastewater project needs:
 Project is comprised of Residential and Restaurant Uses

Residential (Apartments/Townhomes) Use

Design Unit: **per bedroom (one person per bedroom due to proposed operation model)**
 Minimum Design Flow: **76 GPD per person (Based on information from the Town of Dryden per existing Apt.)**
 Maximum Design Flow: **110 GPD per person (Based on information from the DEC)**

Project proposes to lease 1, 2, 3 and 4-bedroom units.

Number of Units:	219 Units		
Number of Bedrooms:	552 Bedrooms	X 76 GPD/Person =	<u>41,952 gpd Minimum Design Flows</u>
Number of Bedrooms:	552 Bedrooms	X 110 GPD/Person =	<u>60,720 gpd Maximum Design Flows</u>

Restaurant Use

Design Unit: **per table + per employees**
 Design Flow: **25 GPD per seat (based on a fast food restaurant)**
15 GPD per employees

Project proposes 40 seat coffee shop, bakery or similar use with 2-shifts of 4.5 employees each shift

Number of seats:	40 Seats	X 25 GPD/seat =	<u>1,000 gpd</u>
Number of employee shifts:	9 Employees	X 15 GPD/employee =	<u>135 gpd</u>
		Subtotal for Retail =	1,135 gpd

Pool and Clubhouse

Design Unit: **per swimmer + per employees**
 Design Flow: **10 GPD per swimmer**
15 GPD per employees

Project proposes 40 seat coffee shop, bakery or similar use with 2-shifts of 4.5 employees each.

Number of seats:	25 Swimmers	X 10 GPD/swimmer =	<u>250 gpd</u>
Number of employee shifts:	5 Employee Shifts	X 15 GPD/employee =	<u>75 gpd</u>
		Subtotal for Retail =	325 gpd

Calculate Total Design Average Flow Range for this Project:

43,412 gpd Minimum
62,180 gpd Maximum

Calculate Design Peak Hourly Flow Rate: Assume that design flow occurs over 16 hour period.

Therefore, **TOTAL DESIGN AVG FLOW/16 hours = 2,713 gph Minimum**
TOTAL DESIGN AVG FLOW/16 hours = 3,886 gph Maximum