

Water, Wastewater, and Solid Waste Generation

Project Name: 457 Hope Avenue

WATER DEMAND*

	Amount	Unit	# of units, seats, or 1,000 sq.ft	factor/GPD	amount/gpd	AFY
Auto Repair and Body shop	0	1000SF	0	98.2	0	
Bank	0	1000SF	0	151.8	0	
Church	0	1000SF	0	151.8	0	
Church with School	0	1000SF	0	160.7	0	
condominium	0	unit	0	250	0	
Convalescent Hospital	0	1000SF	0	98.2	0	
Gas Station	0	1000SF	0	258.9	0	
Gas Station/Mini Market	0	1000SF	0	437.4	0	
General Office	0	1000SF	0	89.3	0	
Grocery Store	0	1000SF	0	375	0	
Health Club	0	1000SF	0	285.7	0	
Hotel/Motel	0	1000SF	0	116.1	0	
Hotel/Motel/Restaurant	0	1000SF	0	133.9	0	
Industrial Assembly and Manufacturing	0	1000SF	0	75.8	0	
Industrial R&D	0	1000SF	0	103.9	0	
Medical Office	0	1000SF	0	133.9	0	
Mixed Medical/Dental	0	1000SF	0	205.3	0	
Multifamily Apartment	0	unit	0	214.3	0	
Restaurant 24 hour	0	seat	0	35.7	0	
Restaurant fast food	0	1000SF	0	1124.5	0	
Restaurant sit down	0	seat	0	18.3	0	
Retail Large over 20,000 SF	0	1000SF	0	60.7	0	
Retail Small under 20,000 SF	0	1000SF	0	98.2	0	
Retirement Facility	0	1000SF	0	89.3	0	
Senior Apartment	0	1000SF	0	107.1	0	
School - Elementary	0	1000SF	0	16.4	0	
School - Junior High	0	1000SF	0	24.7	0	
Single Family Residential < 9999SF	0	unit	0	285.6	0	
Single Family Residential 10,000-22,000 SF	9	unit	9	455.3	4097.7	
Single Family Residential 22,001- 43560 SF	0	unit	0	788.8	0	
Single Family Residential > 1 acre	0	unit	0	1285.5	0	
Theater	0	seat	0	4.2	0	
Warehouse/Industrial Storage	0	1000SF	0	62.5	0	
WATER DEMAND TOTAL ****					4098	4.59

**** Note if site is using water currently fill out sheet 2 to deduct existing water demand from project water demand automatically

NEW WASTEWATER GENERATION **

Landscape Type	Amount	unit	Landscape water consumption	Irrigation Demand AFY	Sewer Demand AFY
<i>Turf Grass</i>					
Cool Season	0	1000SF	0.055	0	
Warm Season	0	1000SF	0.048	0	
<i>Orchards</i>					
Avocados	0	1000SF	0.031	0	
Citrus	0	1000SF	0.035	0	
<i>Landscaping - Non-water conserving</i>					
Groundcover	0	1000SF	0.041	0	
Schrubs	0	1000SF	0.041	0	
Trees	0	1000SF	0.034	0	
<i>Landscaping - Water Conserving</i>					
Groundcover	9	1000SF	0.021	0.189	
Schrubs	0	1000SF	0.021	0	
Trees	0	1000SF	0.017	0	
TOTAL			AFY	0.189	4.40

* Source: City of Santa Barbara Water Demand Factor and Conservation Study "User's Guide" Document NO. 2

** Wastewater generation is calculated by deducting irrigation demand from water demand. Use the Landscape Architect irrigation demand estimate or this table.

SOLID WASTE GENERATION***

CONSTRUCTION WASTE

Type use	Amount SF	Factor/SF	Waste Generated (lbs)	Waste (Tons)
<i>Commercial Development</i>				
Remodel	0	40	0	
Demolition	0	100	0	
New Construction	0	25	0	
<i>Residential development</i>				
Remodel	0	100	0	
Demolition	0	60	0	
New Construction	33750	15	506250	
TOTAL			506250	253.125

OPERATION WASTE

PROJECT WASTE (NEW)

RESIDENTIAL

Type Use	# Units	PPH	Waste Factor (Tons/Year)	Waste Gen. Tons/yr
<i>Residential</i>				
Single Family	9	3.01	0.95	25.7355
Attached Residential	0	2.65	0.95	0
RESIDENTIAL TOTAL				25.7355

COMMERCIAL/INDUSTRIAL/INSTITUTIONAL WASTE				
Type Use	SF/Rooms	Unit	Factor Tons	Waste Gen. Tons/yr
Neighborhood center 30,000-100,000	0	SF	0.0009	0
<i>Regional Shopping Center 100,000-300,000</i>				
Anchor	0	SF	0.00012	0
Tenant	0	SF	0.0048	0
General Retail and Miscellaneous Services	0	SF	0.0057	0
Eating and Drinking Establishments	0	SF	0.0115	0
Automotive Dealer and service stations	0	SF	0.0016	0
Hotel and Motel	0	Rooms	0.8	0
Warehouse	0	SF	0.0016	0
Health Services	0	SF	0.0013	0
Hospital	0	Rooms	0.9	0
Office	0	SF	0.0013	0
Educational Institutions	0	SF	0.001	0
Transportation, Communications, Utilities	0	SF	0.0026	0
Manufacturing	0	SF	0.0026	0
COMMERCIAL/INDUSTRIAL/INSTITUTIONAL TOTAL				0

TOTAL INCREASE OPERATIONAL WASTE (TONS/YR)	25.7355	UNMITIGATED
TOTAL INCREASE OPERATIONAL WASTE (TONS/YR) Mitig	12.86775	MITIGATED

*** Source: Santa Barbara County Environmental Threshold and Guidelines Manual 2008

