APPENDIX 7 – UTL

PACIFIC GROVE HOTEL

Date Prepared March 7, 2016							
Projected Water Use							
Prepared by RRM Design Group							
Room Count	125	Rooms					
Pool Area	510	SF					
Restaurant	3300	SF					
Conference/banquet	1000	SF					
Events per week	2	/wk	104	conference/banquets days			
Occupancy	70	%	=	256	hotel occupancy days		

Facility Type	Number/Size	Typical Fixture Water Use	Use Frequency/day		Water Use Per Day		Water Use/Per Year @ 70% Occupancy - gal		Water Use/Per Year - AFY (325,851gal/af)
Hotel									
Guest Rooms	125				Guest Per Room	1.5			
Toilets	125	1.28 gpf	2 flush/guest/day		125 x 1.28 x 2 x 1.5 =	480 gpd	480 gpd x 255.5 days =	122,640 gal	0.38
Faucets	125	1.3 gpm	2 wash/guest/day	0.45 Min duration	125 x 1.3 x 2 x 0.45 x 1.5 =	219 gpd	219.375 gpd x 255.5 days =	56,050 gal	0.17
Shower heads	125	2.2 gpm	1 shower/guest/day	5 Min duration	125 x 2.2 x 1 x 5 x 1.5 =	2,063 gpd	2062.5 gpd x 255.5 days =	526,969 gal	1.62
Lobby, Office and Staff Area	12 Staff (FTE)								
Toilets	2	1.28 gpf	2 flush/staff/day		12 x 2 x 1.28 =	31 gpd	30.72 gpd x 365 days =	11,213 gal	0.03
Faucets	2	1.3 gpm	2 2 wash/staff/day		12 x 2 x 1.3 =	31.2 gpd	31.2 gpd x 365 days =	11,388 gal	0.03
Ice Maker (guest use)	6	1.1 gpd				6.6 gpd	6.6 gpd x 365 days =	2,409 gal	0.01
Laundry			Occupied Room laundry every 2 days		2gal/lb of fabric				
Washing Machines	3	2.5 gal/load	62 rooms per day@1 - 9lb load/room		1395	1395 gpd	1395gpd x 255.5 days =	356,423 gal	1.09
Landscape Areas									
Hotel Courtyard	1535	0.20 gpd/sf	1		1535 x 0.2 =	307 gpd	307 gpd x 365 days =	112,055 gal	0.34
Fountain Ave Parking	645	0.20 gpd/sf	1		645 x 0.2 =	129 gpd	129 gpd x 365 days =	47,085 gal	0.14
Special Facilities									
Pool	510	0.50 gpd/sf	1		510 x 0.5 =	255 gpd	255 gpd x 365 days =	93,075 gal	0.29
Spa	120	0.50 gpd/sf	1		120 x 0.5 =	60 gpd	60 gpd x 365 days =	21,900 gal	0.07
HOTEL SUB-TOTAL									**4.18**
Food Service/Restaurant					Assume restaurant occupancy 50% for				
	3300 SF	service/kitchen ratio =	50 /50		breakfast, 50% for lunch, 100% for dinner =	2 turns per day			
Restaurant food service		7.6 gal/patron	3300 SF X 50% service /	15 SF PP = 110	110 x 2 x 7.6 =	1672 gpd	1672gpd x 255.5 days =	427,196 gal	1.31
Conference food service	1000 SF	7.6 gal/patron	Food service events =	104 (2 per week)	67 x 7.6 =	509 gpd	509.2gpd x 104 days/yr =	52,957 gal	0.16
RESTAURANT SUB-TOTAL									**1.47**
Conference & Banquet	1000 SF				1 flush and wash/visitor/event. Male- urinal,				
			Standing Occupancy	143	female -toilet				
			Dining occupancy =	67					
			Average / day	105					
Toilets (M=2, F=3)	5	1.28 gpf	105 Visitors		105 x 1.28 gpf =	134 gal	134gpd x 104 days/yr =	13,936 gal	0.04
Urinals	2	Waterless	NA		NA		NA		0.00
Faucets	4	1.3 gpm	1 min. duration		105 x 1.3 gpm x 1 min =	137 gal	136.5gpd x 104 days/yr =	14,196 gal	0.04

PACIFIC GROVE HOTEL

CONFERENCE & BANQUET SUBTOTAL													0.09
Total Estimated Project Water Use													5.74
Existing Water Use	-1.7												-1.7
Net Estimated Project Water Use													4.04
REFERENCE DOCUMENTS:													
Pacific Institute, November 2003: *Waste Not, Want Not: The Potential for Urban Water Conservation in California,* Appendix D and E													