

## MEMORANDUM

Date: October 17, 2003

To: James Walgren, City of Los Altos  
Demetri Loukas, David J Powers Associates  
Kamrin Knight-Desmond, SPLASH

From: Sohrab Rashid, P.E.  
Jason Nesdahl

**Subject: Los Altos Aquatic Center Trip Generation Estimates**

1035-619

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Fehr & Peers Associates, Inc. has estimated trip generation for the Los Altos Aquatic Center project based on surveys of Eagle Pool in Mountain View, California and schedules provided by Swimmers Promoting Los Altos Aquatics Safety and Health (SPLASH). This memorandum presents these estimates and requests comments and/or verification from for the City of Los Altos and SPLASH in the use of these estimates for the traffic analysis. The proposed project will construct a swim center that will contain two swimming pools and other related facilities.

### **Trip Generation Surveys**

Peak-hour trip generation surveys were conducted at the Eagle Pool facility in the City of Mountain View, California to determine the current trip generation rates of this facility. Personal interviews were conducted with people exiting the Eagle Pool facility on August 14, 2003 from 7:00 am to 9:00 am and 4:00 pm to 6:00 pm. Surveys were conducted at this time to obtain trip generation information on swimming activities during the peak Summer months.

During the AM peak hours, the only activities that occurred at Eagle Pool were two Masters swim sessions. Based on information provided by the Masters coach, there were approximately 50 total Master's swimmers at these two sessions on this morning. The results of the survey show that the Master's swimmers generated 38 trips (14 inbound/24 outbound) during the AM peak hour. Approximately five percent of the participants surveyed used an alternative mode of travel (i.e. walk, bicycle, etc.).

During the PM peak hour, four 30-minute sessions of swimming lessons were the only events that occurred at Eagle Pool. It was estimated from the surveys that approximately 110 children participated in the four sessions. The results of these surveys show that 91 trips (51 inbound/40 outbound) were generated during the PM peak hour. Less than five percent of the participants surveyed used an alternative mode of travel. It was also calculated that approximately 25 percent of the vehicles carried more than one participant to the pool resulting in an average participants/vehicle ratio of 1.22.

## **Trip Generation Assumptions**

Schedules for the Summer peak and the Non-Summer periods were provided (by SPLASH) in the attached spreadsheets, showing a schedule for the proposed pool facility uses broken down by time as well as the anticipated number of participants. Further information is needed concerning the dates of the Summer and Non-Summer months and the possible overlapping of the two. Conservative assumptions used in calculating trip generation estimates were based on discussions with Kamrin-Knight Desmond of SPLASH (e.g. the maximum number of a range of participants was used to calculate trip generation). Specific assumptions for each class are presented below.

### *Masters Swimming*

- 5% arrive/depart by non-vehicular means year round

### *Youth Swim Team*

- A designated percentage, based on the length of the program and age group, was assumed to be dropped off and picked up from the program. Group A was assumed to have 25% participants driving and staying the length of the program and 75% picking up and dropping off at the beginning and end of program. Group B has a 50/50 percent split and Group C has 75% staying at the class and 25% picking up and dropping off
- For classes that are only an hour in length, it was assumed that 100% of the vehicles stayed during the program
- 25% of participants carpool
- During the Summer, dry land time is assumed to be 30 minutes for programs in competition pool. Dry land time is time before actual program starts to prepare for pool time (changing, stretching, etc.)
- During Non-Summer schedule, dry land time assumed to be 45 minutes before and after in competition pool

### *Lap Swim*

- 2 persons per lane
- Average swim time 45 minutes
- 100% of participants drive single occupant vehicles

### *Recreational Swim*

- 20 people in pool for average of one hour during Summer schedule (A range of 2 to 20 people estimated to be in pool at any one time. The maximum number taken as a conservative estimate.)
- 15 people in pool for average of one hour during Non-Summer schedule
- 10% travel by non-vehicular mode
- 25% of participants carpool

### *Water Fitness/Weekly Rental of Facility*

- 100% of designated participants drive to class in single occupant vehicle

### *Lessons*

- 100% of designated participants at each 30 minute class
- 100% of drivers stay at pool the duration of class

- 25% of participants carpool

### **Conclusion**

Based on the calculations using the above assumptions and the schedules provided it is estimated that the proposed swim facility would generate 1,935 daily trips with 75 AM peak-hour trips (26 inbound/49 outbound) and 188 PM peak-hour trips (124 inbound/64 outbound) during the Summer period. The proposed project is estimated to generate 1,419 daily trips with 124 AM peak-hour trips (59 inbound/65 outbound) and 116 PM peak-hour trips (74 inbound/42 outbound) during Non-Summer months. These trip generation estimates provide a conservative estimate of project-generated traffic both both Summer and Non-Summer time periods. We appreciate any comments or questions to further refine these estimates.