

Appendix C
Trip Generation Analysis

Trip Generation Calculations

Independent Variable (X): **221.92** Floor Area (KSF)
 Dependent Variable (T): Vehicle Trips

Formula: $\ln(T) = A \times \ln(X) + B$ or $T = C \times X$
 or $T = A \times X + B$

Where:	A=	B=	T=	C =	T =
Wkdy AM Peak Hour	0.86	0.93	264	1.22	271
Wkdy PM Peak Hour	0.82	1.09	250	1.07	237
Wkdy Daily	0.82	3.14	1939	8.11	1800
Saturday Site Peak	0.15	12.75	46	0.24	53
Saturday Daily	1.27	104.92	387	1.90	422

	ENTERING	EXITING	R-Squared
%	TRIPS *	TRIPS	
83%	219	45	0.75
15%	37	212	0.77
50%	969	969	0.72
50%	23	23	0.66
50%	193	193	0.7

Source: Trip Generation, Eighth Edition Institute of Transportation Engineers, 2008.
 Land Use Code 760 - Research and Development Center

Trip Generation Calculations

Independent Variable (X): **641.7** Floor Area (KSF)
 Dependent Variable (T): bn Vehicle Trips

Formula: $\ln(T) = A \times \ln(X) + B$ or $T = C \times X$
 or $T = A \times X + B$

Where:	A=	B=	T=	C =	T =
Wkdy AM Peak	0.8	1.55	830	1.55	995
Wkdy PM Peak	1.12	78.81	798	1.49	956
Wkdy Daily	0.77	3.65	5582	11.01	7065
Saturday Site Peak	0.81	-0.12	167	0.41	263
Saturday Daily	2.14	18.47	1392	2.37	1521

	ENTERING	EXITING	R-Squared
%	TRIPS *	TRIPS	
88%	730	100	0.83
17%	136	662	0.82
50%	2791	2791	0.59
54%	90	77	0.80
50%	696	696	0.66

Source: Trip Generation, Eighth Edition Institute of Transportation Engineers, 2008.
 Land Use Code 710 - General Office Building

Trip Generation Calculations

Independent Variable (X): **213** Floor Area (KSF)
 Dependent Variable (T): Vehicle Trips

Formula: $\ln(T) = A \times \ln(X) + B$ or $T = C \times X$
 or $T = A \times X + B$

Where:	A=	B=	T=	C =	T =	ENTERING		EXITING	R-Squared
						%	TRIPS *	TRIPS	
Wkdy AM Street Peak	0.83	-29.52	147	0.73	155	78%	115	32	0.67
Wkdy PM Street Peak	0.78	-15.97	150	0.73	155	36%	54	96	0.75
Wkdy AM Site Peak	0.83	-17.71	159	0.78	166	68%	108	51	0.81
Wkdy PM Site Peak	0.76	-5.15	157	0.75	160	52%	81	75	0.83
Wkdy Daily	3.88	-20.7	806	3.82	814	50%	403	403	0.87
Saturday Site Peak	0	0	1	0.28	60	N/A	#VALUE!	#VALUE!	
Saturday Daily	0	0	1	1.49	317	50%	159	159	

Source: Trip Generation, Eighth Edition Institute of Transportation Engineers, 2008.
 Land Use Code 140 - Manufacturing