Appendix A

Trip Generation Analysis

Trip Generation Calculations

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

Formula:	Ln (T) = A x Ln (X) + B	or
or	*T = A x X + B*	

or T = C x X

Where:	A=	B=	T=	C =	T =	%	ENTERING TRIPS *	EXITING TRIPS	R-Squared
Wkdy AM Street Peak	*0.83*	*-28.88*	***148***	0.73	155	*77%*	*114*	*34*	*0.67*
Wkdy PM Street Peak	*0.78*	*-12.89*	***153***	0.74	158	36%	*55*	*98*	*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	2.26	**481**	50%	241	241	
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

Trip Generation Calculations

Independent Variable (X):	**637**	Floor Area (KSF)
Dependent Variable (T):		Vehicle Trips

Formula:	Ln (T) = A x Ln (X) + B	or	T = C x X
or	*T = A x X + B*		

Where:	A=	B=	T=	C =	T =	ENTERING %	ENTERING TRIPS *	EXITING TRIPS	R-Squared
Wkdy AM Peak	0.8	1.55	**825**	1.55	987	88%	726	99	0.83
Wkdy PM Peak	*1.12*	*78.81*	***792***	1.49	949	17%	*135*	*657*	*0.82*
Wkdy Daily	0.77	3.65	**5550**	11.01	7012	50%	2775	2775	0.59
Saturday Site Peak	0.81	-0.12	**166**	0.41	261	54%	89	76	0.80
Saturday Daily	*2.14*	*18.47*	***1381***	2.37	1509	50%	*691*	*691*	*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):	**221**	Floor Area (KSF)
Dependent Variable (T):		Vehicle Trips

Formula:	Ln (T) = A x Ln (X) + B	or	T = C x X
or	*T = A x X + B*		

Where:	A=	B=	T=	C =	T =	ENTERING %	ENTERING TRIPS *	EXITING TRIPS	R-Squared
Wkdy AM Peak Hour	0.88	0.88	**279**	1.24	275	83%	232	47	0.75
Wkdy PM Peak Hour	0.83	1.06	**255**	1.08	239	15%	38	217	0.78
Wkdy Daily	0.82	3.14	**1936**	8.11	1796	50%	968	968	0.72
Saturday Site Peak	*0.15*	*12.75*	***46***	0.24	53	50%	*23*	*23*	*0.66*
Saturday Daily	*1.27*	*104.92*	***386***	1.90	421	50%	*193*	*193*	*0.7*

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