APPENDIX H

PEQI RATINGS

Table 2. The Pedestrian Environmental Quality Index (PEQI): Indicator, Domain, and Overall Street Segment Score Values Based on Expert Survey Findings (n= 20)

Intersection or Street Segment Assessment	Domain (Domain Score Weight[a])	Indicator	Indicator Score	Indicator Response Category	Indicator Response Category Score	Indicator Response Category Score, Weighted[b]
Intersections	Intersection Safety (1.05)					
		Crosswalks	2.10	4 Directions	10.00	21
				3 Directions	8.62	18
				2 Directions	6.96	15
				1 Direction	5.30	11
				None	3.64	8
		Ladder Crosswalk	2.40	4 Directions	10.00	24
				3 Directions	8.40	20
				2 Directions	6.55	16
				1 Direction	4.72	11
				None	3.18	8
		Countdown in Signal	2.40	4 Directions/w countdown	8.20	21
				4 Directions/wo countdown		19
				3 Directions/w countdown	6.20	17
				3 Directions/wo countdown		15
				2 Directions/w countdown	4.10	13
				2 Directions/wo countdown		11
				1 Direction/w countdown		9
				1 Direction/wo countdown		7
				None	2.70	5
		Crossing Speed	2.40	Slower than 3.5 ft/sec	8.18	20
				Faster than 3.5 ft/sec	3.64	9
		Crosswalk Scramble	2.40	Yes	8.00	19
				No	2.00	5
		No Turn on Red	2.40	4	8.00	19
				3		15
				2		11
				1		8
				No	2.00	5
		Traffic Calming Features (TCFs)	2.40	5 or more TCFs	8.18	20
				3 - 4 TCFs	7.27	17
				1 - 2 TCFs	6.36	15
				0 TFCs	3.64	9
		Additional Signs for Pedestrians	2.40	Yes	7.00	17
				No	3.00	7
Street Segment	*Traffic (0.76)*					
		Number of Lanes	2.40	No Lanes	10.0	24
				1	9.1	22
				2	7.7	19
				3	3.6	9
				4+	1.8	4
		Two Way Traffic	1.80	Yes	5.5	10
				No (One-way Traffic)	3.6	7
		Vehicle Speed	2.70	Less than 20 mph	10.0	27
				20-30 mph	7.3	22
				30-40 mph	4.5	12
				More than 40 mph	0.9	2
		Traffic Volume	2.40	Less than 1,000	9.1	22
				1000 - 5000	7.3	17
				5000 - 10,000	4.5	11
				More than 10,000	2.7	7
		TCFs	2.40	Yes	8.2	20
				No	2.7	7
Street Segment	*Street Design (1.10)*					
		Width of Sidewalk	2.40	Greater than 12ft	9.09	22
				8 -12 ft	7.73	19
				5 - 8 ft	5.45	13
				Less Than 5 ft	2.73	7
				No Sidewalk	0.61	1
		Sidewalk Impediments	2.40	None	10.00	24
				Few	5.45	13
				Not Applicable	5.00	12
				Significant	0.91	2
		Large SW Obstructions	2.10	No	7.27	15
				Yes, Temporary		10
				Yes, Permanent		9
				Yes, Permanent & Temporary	3.64	8
				Not Applicable	5.00	5
		Presence of Curb	2.10	Continuous Curb	8.18	17
				No Curb	3.18	7
		Driveway Cuts	1.80	More than 5	8.18	15
				Few (less than 5)	5.45	10
				None	2.73	5
		Trees	1.80	Continuously Lined	9.09	16
				Sporadically Lined	6.36	11
				None	3.64	7
		Planters/Gardens	1.20	Yes	7.73	9
				No	3.18	4
		Public Seating	1.80	Yes	7.27	13
				No	3.64	7
		Presence of a Buffer	2.10	Bike Lane and Paralle Parking	10.00	21
				Bike Lane and Time Restricted Paralle Parking		19
				Bike Lane	7.00	15
				Paralle Parking	6.00	13
				Time Restricted Parallel Parking	6.00	11
				None	2.00	4
Street Segment	*Land Use (0.18)*					
		Public Art/ Historic Sites	1.80	Yes	7.7	14
				No	3.2	6
		Restaurant and Retail Use	2.10	More than 2	9.1	19
				1 or 2	6.4	13
				None	4.1	9
Street Segment	*Perceived Safety (0.43)*					
		Illegal Graffiti	1.40	Little to None	6.36	9
				Yes	3.64	5
		Litter	1.80	Little to None	6.82	10
				Yes- A Lot	2.73	5
		Lighting	2.40	Yes - Public & Private		25
				Yes - Public	8.18	20
				Yes - Private		15
				No	2.73	7
		Construction Sites	1.80	No	7.27	13
				Yes	3.64	7
		Abandoned Buildings	1.80	No	8.18	15
				Yes	2.73	5
Street Segment	*Overall* [c] *2.47*					

a The Domain Score Weight is used to obtain Domain Scores for each of the 5 PEQI Domains. The Domain Score is calculated by adding together all the Weighted Indicator Category Scores in the Domain, and then multiplying by the Domain Score Weight for a maximum Domain Score of 100 in each Domain.

b Indicator Category scores are weighted by the Indicator Scores by multiplying the two values.

c Combines the four *Street Segment* Domains to create an overall Street Segment PEQI Score.

Appendix Table H-1
PEQI CALCULATION [1]
STREET SEGMENT ANALYSIS
Existing Conditions

Indicator Category	Indicator Score	Indicator Response East Side	Indicator Response Category Score	Weighted Indicator Response Category Score	Indicator Response West Side	Indicator Response Category Score	Weighted Indicator Response Category Score
Traffic							
Number of Lanes	2.40	2 Lanes	7.70	19	2 Lanes	7.70	19
Two-Way Traffic	1.80	Yes	5.50	10	Yes	5.50	10
Vehicle Speed	2.70	20 - 30 MPH	7.30	22	20 - 30 MPH	7.30	22
Traffic Volume	2.40	5,000 - 10,000	4.50	11	5,000 - 10,000	4.50	11
Presence of Traffic Calming Features	2.40	No	2.70	7	No	2.70	7
				69			**69**
Street Design							
Width of Sidewalk	2.40	Greater than 12 feet	9.09	22	Greater than 12 feet	9.09	22
Sidewalk Impediments	2.40	Few	5.45	13	Few	5.45	13
Large Sidewalk Obstructions	2.10	No	7.27	15	No	7.27	15
Presence of Curb	2.10	Curb	8.18	17	Curb	8.18	17
Driveway Cuts	1.80	Few	5.45	10	None	8.18	15
Trees	1.80	Sporadically Lined	6.36	11	Sporadically Lined	6.36	11
Planters/Gardens	1.20	No	3.18	4	No	3.18	4
Public Seating	1.80	No	3.64	7	No	3.64	7
Presence of a Buffer	2.10	No	2.00	4	Time-restricted Parallel Parking	6.00	13
				103			**117**
Land Use							
Public Art/Historic Site	1.80	No	3.20	6	Yes	7.70	14
Restaurant and Retail Use	2.10	1 or 2	6.40	13	1 or 2	6.40	13
				19			**27**
Safety							
Illegal Graffiti	1.40	Little to None	6.36	9	Little to None	6.36	9
Litter	1.80	Little to None	6.82	10	Little to None	6.82	10
Presence of Pedestrian Scale Street Lighting	2.40	Yes, Public	8.18	20	Yes, Public	8.18	20
Construction Sites	1.80	No	7.27	13	No	7.27	13
Abandoned Buildings	1.80	No	8.18	15	No	8.18	15
				105			**121**
Domain Summary	**Score Weight**		**Min Score**	**Score**		**Min Score**	**Score**
Traffic	0.76		27	69		27	69
Street Design	1.10		42	103		42	117
Land Use	0.18		15	19		15	27
Safety	0.43		29	105		29	121
	2.47		113	296		113	334
PEQI Score		**East Side**		**74**	**West Side**		**89**

[1] Source: T*he Pedestrian Environmental Quality Index (PEQI): An assessment of the physical condition of streets and intersections, Draft Methods Report* , Fall 2008, San Francisco Department of Public Health, Environmental Health Section, Program on Health, Equity and Sustainability.

Appendix Table H-2
PEQI CALCULATION [1]
STREET SEGMENT ANALYSIS
Existing With Project Conditions

Indicator Category	Indicator Score	Indicator Response East Side	Indicator Response Category Score	Weighted Indicator Response Category Score	Indicator Response West Side	Indicator Response Category Score	Weighted Indicator Response Category Score
Traffic							
Number of Lanes	2.40	2 Lanes	7.70	19	2 Lanes	7.70	19
Two-Way Traffic	1.80	Yes	5.50	10	Yes	5.50	10
Vehicle Speed	2.70	20 - 30 MPH	7.30	22	20 - 30 MPH	7.30	22
Traffic Volume	2.40	5,000 - 10,000	4.50	11	5,000 - 10,000	4.50	11
Presence of Traffic Calming Features	2.40	No	2.70	7	No	2.70	7
				69			**69**
Street Design							
Width of Sidewalk	2.40	Greater than 12 feet	9.09	22	Greater than 12 feet	9.09	22
Sidewalk Impediments	2.40	Few	5.45	13	Few	5.45	13
Large Sidewalk Obstructions	2.10	No	7.27	15	No	7.27	15
Presence of Curb	2.10	Curb	8.18	17	Curb	8.18	17
Driveway Cuts	1.80	Few	5.45	10	None	8.18	15
Trees	1.80	Sporadically Lined	6.36	11	Sporadically Lined	6.36	11
Planters/Gardens	1.20	No	3.18	4	No	3.18	4
Public Seating	1.80	No	3.64	7	No	3.64	7
Presence of a Buffer	2.10	No	2.00	4	Time-restricted Parallel Parking	6.00	13
				103			**117**
Land Use							
Public Art/Historic Site	1.80	No	3.20	6	Yes	7.70	14
Restaurant and Retail Use	2.10	1 or 2	6.40	13	1 or 2	6.40	13
				19			**27**
Safety							
Illegal Graffiti	1.40	Little to None	6.36	9	Little to None	6.36	9
Litter	1.80	Little to None	6.82	10	Little to None	6.82	10
Presence of Pedestrian Scale Street Lighting	2.40	Yes, Public	8.18	20	Yes, Public	8.18	20
Construction Sites	1.80	No	7.27	13	No	7.27	13
Abandoned Buildings	1.80	No	8.18	15	No	8.18	15
				105			**121**
Domain Summary	**Score Weight**		**Min Score**	**Score**		**Min Score**	**Score**
Traffic	0.76		27	69		27	69
Street Design	1.10		42	103		42	117
Land Use	0.18		15	19		15	27
Safety	0.43		29	105		29	121
	2.47		113	296		113	334
PEQI Score		**East Side**		**74**	**West Side**		**89**

[1] Source: T*he Pedestrian Environmental Quality Index (PEQI): An assessment of the physical condition of streets and intersections, Draft Methods Report* , Fall 2008, San Francisco Department of Public Health, Environmental Health Section, Program on Health, Equity and Sustainability.

Appendix Table H-3
PEQI CALCULATION [1]
STREET SEGMENT ANALYSIS
Mid-Block Crossing Alternative

Indicator Category	Indicator Score	Indicator Response East Side	Indicator Response Category Score	Weighted Indicator Response Category Score	Indicator Response West Side	Indicator Response Category Score	Weighted Indicator Response Category Score
Traffic							
Number of Lanes	2.40	2 Lanes	7.70	19	2 Lanes	7.70	19
Two-Way Traffic	1.80	Yes	5.50	10	Yes	5.50	10
Vehicle Speed	2.70	20 - 30 MPH	7.30	22	20 - 30 MPH	7.30	22
Traffic Volume	2.40	5,000 - 10,000	4.50	11	5,000 - 10,000	4.50	11
Presence of Traffic Calming Features	2.40	Yes	8.20	20	Yes	8.20	20
				82			**82**
Street Design							
Width of Sidewalk	2.40	Greater than 12 feet	9.09	22	Greater than 12 feet	9.09	22
Sidewalk Impediments	2.40	Few	5.45	13	Few	5.45	13
Large Sidewalk Obstructions	2.10	No	7.27	15	No	7.27	15
Presence of Curb	2.10	Curb	8.18	17	Curb	8.18	17
Driveway Cuts	1.80	Few	5.45	10	None	8.18	15
Trees	1.80	Sporadically Lined	6.36	11	Sporadically Lined	6.36	11
Planters/Gardens	1.20	No	3.18	4	No	3.18	4
Public Seating	1.80	No	3.64	7	No	3.64	7
Presence of a Buffer	2.10	No	2.00	4	Time-restricted Parallel Parking	6.00	13
				103			**117**
Land Use							
Public Art/Historic Site	1.80	No	3.20	6	Yes	7.70	14
Restaurant and Retail Use	2.10	1 or 2	6.40	13	1 or 2	6.40	13
				19			**27**
Safety							
Illegal Graffiti	1.40	Little to None	6.36	9	Little to None	6.36	9
Litter	1.80	Little to None	6.82	10	Little to None	6.82	10
Presence of Pedestrian Scale Street Lighting	2.40	Yes, Public	8.18	20	Yes, Public	8.18	20
Construction Sites	1.80	No	7.27	13	No	7.27	13
Abandoned Buildings	1.80	No	8.18	15	No	8.18	15
				105			**121**
Domain Summary	**Score Weight**		**Min Score**	**Score**		**Min Score**	**Score**
Traffic	0.76		27	82		27	82
Street Design	1.10		42	103		42	117
Land Use	0.18		15	19		15	27
Safety	0.43		29	105		29	121
	2.47		113	309		113	347
PEQI Score		**East Side**		**79**	**West Side**		**95**

[1] Source: The Pedestrian Environmental Quality Index (PEQI): An assessment of the physical condition of streets and intersections, Draft Methods Report, Fall 2008, San Francisco Department of Public Health, Environmental Health Section, Program on Health, Equity and Sustainability.

Appendix Table H-4
PEQI CALCULATION [1]
STREET SEGMENT ANALYSIS
Pedestrian Tunnel/Overpass Alternative

Indicator Category	Indicator Score	Indicator Response East Side	Indicator Response Category Score	Weighted Indicator Response Category Score	Indicator Response West Side	Indicator Response Category Score	Weighted Indicator Response Category Score
Traffic							
Number of Lanes	2.40	2 Lanes	7.70	19	2 Lanes	7.70	19
Two-Way Traffic	1.80	Yes	5.50	10	Yes	5.50	10
Vehicle Speed	2.70	20 - 30 MPH	7.30	22	20 - 30 MPH	7.30	22
Traffic Volume	2.40	5,000 - 10,000	4.50	11	5,000 - 10,000	4.50	11
Presence of Traffic Calming Features	2.40	Yes	8.20	20	Yes	8.20	20
				82			**82**
Street Design							
Width of Sidewalk	2.40	Greater than 12 feet	9.09	22	Greater than 12 feet	9.09	22
Sidewalk Impediments	2.40	Few	5.45	13	Few	5.45	13
Large Sidewalk Obstructions	2.10	No	7.27	15	No	7.27	15
Presence of Curb	2.10	Curb	8.18	17	Curb	8.18	17
Driveway Cuts	1.80	Few	5.45	10	None	8.18	15
Trees	1.80	Sporadically Lined	6.36	11	Sporadically Lined	6.36	11
Planters/Gardens	1.20	No	3.18	4	No	3.18	4
Public Seating	1.80	No	3.64	7	No	3.64	7
Presence of a Buffer	2.10	No	2.00	4	Time-restricted Parallel Parking	6.00	13
				103			**117**
Land Use							
Public Art/Historic Site	1.80	No	3.20	6	Yes	7.70	14
Restaurant and Retail Use	2.10	1 or 2	6.40	13	1 or 2	6.40	13
				19			**27**
Safety							
Illegal Graffiti	1.40	Little to None	6.36	9	Little to None	6.36	9
Litter	1.80	Little to None	6.82	10	Little to None	6.82	10
Presence of Pedestrian Scale Street Lighting	2.40	Yes, Public	8.18	20	Yes, Public	8.18	20
Construction Sites	1.80	No	7.27	13	No	7.27	13
Abandoned Buildings	1.80	No	8.18	15	No	8.18	15
				105			**121**
Domain Summary	**Score Weight**		**Min Score**	**Score**		**Min Score**	**Score**
Traffic	0.76		27	82		27	82
Street Design	1.10		42	103		42	117
Land Use	0.18		15	19		15	27
Safety	0.43		29	105		29	121
	2.47		113	309		113	347
PEQI Score		**East Side**		**79**	**West Side**		**95**

[1] Source: The Pedestrian Environmental Quality Index (PEQI): An assessment of the physical condition of streets and intersections, Draft Methods Report, Fall 2008, San Francisco Department of Public Health, Environmental Health Section, Program on Health, Equity and Sustainability.

Appendix Table H-5
PEQI CALCULATION [1]
STREET SEGMENT ANALYSIS
Partial Closure Alternative

Indicator Category	Indicator Score	Indicator Response East Side	Indicator Response Category Score	Weighted Indicator Response Category Score	Indicator Response West Side	Indicator Response Category Score	Weighted Indicator Response Category Score
Traffic							
Number of Lanes	2.40	1 Lane	9.10	22	1 Lane	9.10	22
Two-Way Traffic	1.80	No	3.60	7	No	3.60	7
Vehicle Speed	2.70	20 - 30 MPH	7.30	22	20 - 30 MPH	7.30	22
Traffic Volume	2.40	1,000 - 5,000	7.30	17	1,000 - 5,000	7.30	17
Presence of Traffic Calming Features	2.40	Yes	8.20	20	Yes	8.20	20
				88			**88**
Street Design							
Width of Sidewalk	2.40	Greater than 12 feet	9.09	22	Greater than 12 feet	9.09	22
Sidewalk Impediments	2.40	Few	5.45	13	Few	5.45	13
Large Sidewalk Obstructions	2.10	No	7.27	15	No	7.27	15
Presence of Curb	2.10	Curb	8.18	17	Curb	8.18	17
Driveway Cuts	1.80	Few	5.45	10	None	8.18	15
Trees	1.80	Sporadically Lined	6.36	11	Sporadically Lined	6.36	11
Planters/Gardens	1.20	No	3.18	4	No	3.18	4
Public Seating	1.80	No	3.64	7	No	3.64	7
Presence of a Buffer	2.10	No	2.00	4	Time-restricted Parallel Parking	6.00	13
				103			**117**
Land Use							
Public Art/Historic Site	1.80	No	3.20	6	Yes	7.70	14
Restaurant and Retail Use	2.10	1 or 2	6.40	13	1 or 2	6.40	13
				19			**27**
Safety							
Illegal Graffiti	1.40	Little to None	6.36	9	Little to None	6.36	9
Litter	1.80	Little to None	6.82	10	Little to None	6.82	10
Presence of Pedestrian Scale Street Lighting	2.40	Yes, Public	8.18	20	Yes, Public	8.18	20
Construction Sites	1.80	No	7.27	13	No	7.27	13
Abandoned Buildings	1.80	No	8.18	15	No	8.18	15
				105			**121**
Domain Summary	**Score Weight**		**Min Score**	**Score**		**Min Score**	**Score**
Traffic	0.76		27	88		27	88
Street Design	1.10		42	103		42	117
Land Use	0.18		15	19		15	27
Safety	0.43		29	105		29	121
	2.47		113	315		113	353
PEQI Score		**East Side**		**82**	**West Side**		**97**

[1] Source: The Pedestrian Environmental Quality Index (PEQI): An assessment of the physical condition of streets and intersections, Draft Methods Report, Fall 2008, San Francisco Department of Public Health, Environmental Health Section, Program on Health, Equity and Sustainability.

Appendix Table H-6
PEQI CALCULATION [1]
STREET SEGMENT ANALYSIS
Full Closure Alternative

Indicator Category	Indicator Score	Indicator Response East Side	Indicator Response Category Score	Weighted Indicator Response Category Score	Indicator Response West Side	Indicator Response Category Score	Weighted Indicator Response Category Score
Traffic							
Number of Lanes	2.40	No Lanes	10.00	24	No Lanes	10.00	24
Two-Way Traffic	1.80	No	3.60	7	No	3.60	7
Vehicle Speed	2.70	20 - 30 MPH	7.30	22	20 - 30 MPH	7.30	22
Traffic Volume	2.40	Less than 1,000	9.10	22	Less than 1,000	9.10	22
Presence of Traffic Calming Features	2.40	Yes	8.20	20	Yes	8.20	20
				95			**95**
Street Design							
Width of Sidewalk	2.40	Greater than 12 feet	9.09	22	Greater than 12 feet	9.09	22
Sidewalk Impediments	2.40	Few	5.45	13	Few	5.45	13
Large Sidewalk Obstructions	2.10	No	7.27	15	No	7.27	15
Presence of Curb	2.10	Curb	8.18	17	Curb	8.18	17
Driveway Cuts	1.80	Few	5.45	10	None	8.18	15
Trees	1.80	Sporadically Lined	6.36	11	Sporadically Lined	6.36	11
Planters/Gardens	1.20	No	3.18	4	No	3.18	4
Public Seating	1.80	No	3.64	7	No	3.64	7
Presence of a Buffer	2.10	No	2.00	4	Time-restricted Parallel Parking	6.00	13
				103			**117**
Land Use							
Public Art/Historic Site	1.80	No	3.20	6	Yes	7.70	14
Restaurant and Retail Use	2.10	1 or 2	6.40	13	1 or 2	6.40	13
				19			**27**
Safety							
Illegal Graffiti	1.40	Little to None	6.36	9	Little to None	6.36	9
Litter	1.80	Little to None	6.82	10	Little to None	6.82	10
Presence of Pedestrian Scale Street Lighting	2.40	Yes, Public	8.18	20	Yes, Public	8.18	20
Construction Sites	1.80	No	7.27	13	No	7.27	13
Abandoned Buildings	1.80	No	8.18	15	No	8.18	15
				105			**121**
Domain Summary	**Score Weight**		**Min Score**	**Score**		**Min Score**	**Score**
Traffic	0.76		27	95		27	95
Street Design	1.10		42	103		42	117
Land Use	0.18		15	19		15	27
Safety	0.43		29	105		29	121
	2.47		113	322		113	360
PEQI Score		**East Side**		**85**	**West Side**		**100**

[1] Source: The Pedestrian Environmental Quality Index (PEQI): An assessment of the physical condition of streets and intersections, Draft Methods Report, Fall 2008, San Francisco Department of Public Health, Environmental Health Section, Program on Health, Equity and Sustainability.