Appendix 4.6-B

Noise Impacts for the Stoughton Diesel Alternative and Whittenton Electric Alternative



FTA Train Calculations



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Stoughton Diesel



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New Bedford/Fall River Modeled Noise Levels Impact Ranges based upon various Existing Noise Levels

When	When Severe		Мо	derate	No	Impact
Existing dba	greater than			<u>between</u>	less than	farther than
	dBA	feet	dBA	feet	dBA	feet
60	63	115	58-63	115-225	58	225
61	64	100	59-64	100-200	59	200
62	64	100	59-64	100-200	59	200
63	65	75	60-65	75-175	60	175
64	65	75	60-65	75-175	60	175
65	66	65	61-66	65-150	61	150
66	67	55	62-67	55-135	62	135
67	67	55	62-67	55-135	62	135
68	68	50	63-68	50-115	63	115
69	69	45	64-69	45-100	64	100
70	69	45	64-69	45-100	64	100
71	70	40	66-70	40-65	66	65
72	71	30	66-71	30-65	66	65

				Severe - closer than	Quantity	Moderate - closer than	Quantity
Segment	MP	No-build	Build	(feet)	Severe	(feet)	Moderate
Brock Street	4.30	63	65	65	3	150	8
Plain Street	4.60	59	65	100	8	200	14
Morton Street	5.20	69	70	30	0	65	0
North Easton Station	6.40	62	62	75	0	175	0
Elm Street (MP 7.60)	7.60	67	68	45	0	100	10
Oliver Street	7.80	58	62	75	0	175	2
Pond Street	7.90	58	61	75	0	175	8
Main Street	8.05	63	67	55	6	135	15
Bridge Street	8.40	58	62	100	2	200	15
Short Street	9.55	64	66	55	0	135	5
Depot Street/123	10.00	65	69	45	0	100	1
Purchase Street	10.20	61	64	75	0	175	2
Prospect Street	10.90	60	66	100	0	200	2
Raynham Station	14.10	63	63	65	0	150	0
Elm Street (MP 15.40)	15.40	57	63	100	4	200	3
Carver Street	15.80	60	65	100	1	200	1
Route 138	16.40	67	69	45	0	100	4
Britton Street	16.50	57	63	115	4	225	4
King Phillip Street	17.10	63	65	55	4	135	3
Longmeadow Road	18.90	67	70	45	0	100	2
Dean Street Station	19.20	52	55	150	0	300	0
Dean Street	19.40	65	68	50	0	115	2
Ingell Street	61.92	63	#REF!	55	0	135	0
Hart Street	62.43	65	#REF!	50	0	115	6
Total					32		107

Leq (dBA)

Existing Distance to Track Background

	Distance to Track	Background				
School	(feet)	Noise	No-Build	Project	Build	Impact
Jones School	1,400					
Kimball School	1,400					
Unionville School	3,200					
Stonehill College	5,500					
Parkview School	2,300					
Easton Jr. High School	3,100					
Ames Highschoo	3,100					
Holy Cross Seminary	4,000					
School building near Easton Center	1,700					
Southeastern Regional Vocational High School	750	61	62	50	62	No Impact
High School	3,200					-
Pole School	2,000					
Summer Street School	600	65	66	51	66	No Impact



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				At-Grade				trains/h	trains/h	Building		Existing	trains per		trains per	Existing
Site #	Location	Milepost	M.A.S.	Crossing?	Horn/Bell	locomotive	cars	r day	r night	Offset (ft.)	Quantity	Leq (day)	hour	Leq (night)	hour	Ldn1
1	Brock Street	4.30	70	Yes	Horn	1	8	2.47	0.33	75	20	58	2.47	59	0.33	65
2	Plain Street	4.60	70	Yes	Horn	1	8	2.47	0.33	75	10	60	2.47	55	0.33	62
3	Morton Street	5.20	70	Yes	Horn	1	8	2.47	0.33	100	5	67	2.47	65	0.33	72
N	North Easton Station	6.40	70	Station	Horn	1	8	2.47	0.33	1300	5					
4	Elm Street (MP 7.60)	7.60	70	Yes	Horn	1	8	2.47	0.33	75	10	65	2.47	63	0.33	70
5	Oliver Street	7.80	70	Yes	Horn	1	8	2.47	0.33	75	5	63	2.47	54	0.33	63
6	Pond Street	7.90	70	No	n/a	1	8	2.47	0.33	75	0	62	2.47	54	0.33	63
7	Main Street	8.05	70	No	n/a	1	8	2.47	0.33	75	5	64	2.47	59	0.33	66
8	Bridge Street	8.40	70	No	n/a	1	8	2.47	0.33	75	25	58	2.47	54	0.33	61
9	Short Street	9.55	70	Yes	Horn	1	8	2.47	0.33	100	20	63	2.47	60	0.33	67
10	Depot Street/123	10.00	70	Yes	Horn	1	8	2.47	0.33	75	5	67	2.47	61	0.33	69
11	Purchase Street	10.20	70	Yes	Horn	1	8	2.47	0.33	300	10	60	2.47	57	0.33	64
12	Prospect Street	10.90	70	Yes	Horn	1	8	2.47	0.33	100	2	55	2.47	56	0.33	62
	Raynham Station	14.10	70	Station	Horn	1	8	2.47	0.33	1800	5					
13	Elm Street (MP 15.40)	15.40	70	Yes	Horn	1	8	2.47	0.33	75	5	58	2.47	53	0.33	61
14	Carver Street	15.80	70	Yes	Horn	1	8	2.47	0.33	75	3	56	2.47	56	0.33	62
15	Route 138	16.40	70	Yes	Horn	1	8	2.47	0.33	100	5	65	2.47	63	0.33	70
16	Britton Street	16.50	70	Yes	Horn	1	8	2.47	0.33	75	3	58	2.47	53	0.33	60
17	King Phillip Street	17.10	70	Yes	Horn	1	8	2.47	0.33	75	10	64	2.47	59	0.33	66
18	Longmeadow Road	18.90	70	Yes	Horn	1	8	2.47	0.33	75	5	61	2.47	63	0.33	69
	Dean Street Station	19.20	40	Station	Bell	1	8	2.40	0.44	600	5					
19	Dean Street	19.40	40	Yes	Bell	1	8	2.40	0.44	n/a	2	65	2.40	61	0.44	68
20	Ingell Street	61.92	40	Yes	Bell	1	8	2.40	0.44	200	15	59	2.40	59	0.44	66
21	Hart Street	62.43	40	Yes	Bell	1	8	2.40	0.44	75	10	65	2.40	61	0.44	68

 $^{1:} L_{dn} computed using: 10*LOG((15*10^(L_{eq}day/10))+(9*10^((L_{eq}nite+10)/10)))-13.8$

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RESULTS Noise Source All Sources Source 1 Source 2 Source 3

Ldn (dB)	Leq - daytime (dB)	Leq - nighttime (dB)
63	63	54
62	61	52
58	58	49

Enter noise receiver land use category below.

LAND USE CATEGORY	
Noise receiver land use category (1, 2 or 3)	2

NOISE SOURCE PA	RAMETERS					
Parameter	Source 1		Source 2		Source 3	
Source Num.	Diesel Loco.	2	Comm. Rail Cars	3		
Dist. to receiver	distance (ft)	50	distance (ft)	50		
Daytime Hours	speed (mph)	30	speed (mph)	30		
(7 AM - 10 PM)	trains/hour	2.47	trains/hour	2.47		
	locos/train	1	cars/train	8		
Nighttime Hours	speed (mph)	30	speed (mph)	30		
(10 PM - 7 AM)	trains/hour	0.33	trains/hour	0.33		
	locos/train	1	cars/train	8		
Jointed Track?	Y/N	N	Y/N	N		
Embedded Track?	Y/N	Y	Y/N	Y		
Aerial Structure?	Y/N	N	Y/N	N		
Barrier Present?	Y/N	N	Y/N	N		
Intervening Rows						
of Buildings	number	Ü	number	0		

SOURCE REFERENC	E LIST
Source	Number
Electric Loco.	1
Diesel Loco.	2
Comm. Rail Cars	2 3 4
RRT/LRT	
AGT, Steel Wheel	5 6 7 8 9
AGT, Rubber Tire	6
Monorail	7
Maglev	8
Automobiles	9
City Buses	10
Commuter Buses	11
Rail Yard or Shop	12
Layover Tracks	13
Bus Storage Yard	14
Bus Op. Facility	15
Bus Transit Center	16
Parking Garage	17
Park & Ride Lot	18

New Bedford/Fa Modeled Noise I		Crossing Type -				5.11	Le		.	difference (Build - Existing)		Ldn	l	5 ".	difference (Build - Existing)
	Milepost	Grade, Overhead, Underground, Station	Horn Noise	Speed Used	Building Offset (ft.)	Rail Project	Existing Road (Monitored)	Future No- Build	Build Condition	dbA	Rail Project	Existing (Monitored)	Future No-Build	Build Condition	dbA
1 Brock Street	4.30	G	Yes	30	75	57	58	59	61	3	60	62	63	65	3
2 Plain Street	4.60	G	Yes	30	75	61	60	61	64	4	64	58	59	65	7
3 Morton Street	5.20	G	Yes	30	100	60	67	68	69	2	63	68	69	70	2
North Easton Station	6.40	Sta.	No		1,200	47	64	65	65	1	47	61	62	62	1
4 Elm Street (MP 7.60)	7.60	G	Yes	30	75	59	65	66	67	2	62	66	67	68	2
5 Oliver Street	7.80	G	Yes	30	100	57	63	64	65	2	60	57	58	62	5
6 Pond Street	7.90	UG	No	30	100	56	62	63	63	2	59	57	58	61	4
7 Main Street	8.05	ОН	No	40	75	61	64	65	66	3	64	62	63	67	5
8 Bridge Street	8.40	ОН	No	50	75	57	58	59	61	3	60	57	58	62	5
9 Short Street	9.55	G	Yes	70	100	59	63	64	65	2	62	63	64	66	3
10 Depot Street/123	10.00	G	Yes	70	75	63	67	68	69	2	66	64	65	69	5
11 Purchase Street	10.20	G	Yes	70	300	59	60	61	63	3	62	60	61	64	4
12 Prospect Street	10.90	G	Yes	70	100	62	55	56	63	8	65	59	60	66	7
Raynham Station	14.10	Sta.	No		1,600	46	65	66	66	1	46	62	63	63	1
13 Elm Street (MP 15.40)	15.40	G	Yes	70	100	59	58	59	62	4	61	56	57	63	7
14 Carver Street	15.80	G	Yes	70	75	60	56	57	62	6	63	59	60	65	6
15 Route 138	16.40	G	Yes	70	75	63	65	66	68	3	65	66	67	69	3
16 Britton Street	16.50	G	Yes	70	75	59	58	59	62	4	61	56	57	63	7
17 King Phillip Street	17.10	G	Yes	70	100	59	64	65	66	2	62	62	63	65	3
18 Longmeadow Road	18.90	G	Yes	30	300	63	61	62	66	5	66	66	67	70	4
Dean Street Station	19.20	Sta.	No		600	52	54	55	57	3	52	51	52	55	4
19 Dean Street	19.40	G	Yes	30	75	61	65	66	67	2	64	64	65	68	4
20 Ingell Street	61.92	G	Yes	30	100	#REF!	59	60	#REF!	#REF!	#REF!	62	63	#REF!	#REF!
21 Hart Street	62.43	G	Yes	30	75	#REF!	65	66	#REF!	#REF!	#REF!	64	65	#REF!	#REF!
22 High Street Freetown		G	Yes	30	250	#REF!	-	1	#REF!	#REF!	#REF!	57	58	#REF!	#REF!



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General Transit Noise Assessment
Case: Brock Street

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RESULTS Noise Source All Sources Source 1 Source 2 Source 3

Ldn (dB)	Leq - daytime (dB)	Leq - nighttime (dB)
60	57	52
57	55	50
56	53	49

Enter noise receiver land use category below.

LAND USE CATEGORY	
Noise receiver land use category (1, 2 or 3)	2

NOISE SOURCE PA	RAMETERS					
Parameter	Source 1		Source 2		Source 3	
Source Num.	Diesel Loco.	2	Comm. Rail Cars	3		O
Dist. to receiver	distance (ft)	125	distance (ft)	125		
Daytime Hours	speed (mph)	45	speed (mph)	45		
(7 AM - 10 PM)	trains/hour	3	trains/hour	3		
	locos/train	1	cars/train	8		
Nighttime Hours	speed (mph)	45	speed (mph)	45		
(10 PM - 7 AM)	trains/hour	1	trains/hour	1		
	locos/train	1	cars/train	8		
Jointed Track?	Y/N	N	Y/N	N		
Embedded Track?	Y/N	N	Y/N	N		
Aerial Structure?	Y/N	N	Y/N	N		
Barrier Present?	Y/N	N	Y/N	N		
Intervening Rows		100000000000000000000000000000000000000				0,00,00,00,000
of Buildings	number	0	number	0		

SOURCE REFERENCE LIST				
Source	Number			
Electric Loco.	1			
Diesel Loco.	2			
Comm. Rail Cars	3			
RRT/LRT	4			
AGT, Steel Wheel	2 3 4 5 6 7 8 9			
AGT, Rubber Tire	6			
Monorail	7			
Maglev	8			
Automobiles	9			
City Buses	10			
Commuter Buses	11			
Rail Yard or Shop	12			
Layover Tracks	13			
Bus Storage Yard	14			
Bus Op. Facility	15			
Bus Transit Center	16			
Parking Garage	17			
Park & Ride Lot	18			

Federal Transit Adminstration
General Transit Noise Assessment
Case: Plain Street

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RESULTS Noise Source All Sources Source 1 Source 2 Source 3

Ldn (dB)	Leq - daytime (dB)	Leq - nighttime (dB)
64	61	57
61	58	53
61	59	54

Enter noise receiver land use category below.

LAND USE CATEGORY	
Noise receiver land use category (1, 2 or 3)	2

NOISE SOURCE PARAMETERS						
Parameter	Source 1		Source 2		Source 3	
Source Num.	Diesel Loco.	2	Comm. Rail Cars	3		0
Dist. to receiver	distance (ft)	100	distance (ft)	100		
Daytime Hours	speed (mph)	70	speed (mph)	70		
(7 AM - 10 PM)	trains/hour	3	trains/hour	3		
	locos/train	1	cars/train	8		
Nighttime Hours	speed (mph)	70	speed (mph)	70		
(10 PM - 7 AM)	trains/hour	1	trains/hour	1		
	locos/train	1	cars/train	8		
Jointed Track?	Y/N	N	Y/N	N		
Embedded Track?	Y/N	N	Y/N	N		
Aerial Structure?	Y/N	N	Y/N	N		
Barrier Present?	Y/N	N	Y/N	N		
Intervening Rows						
of Buildings	number	Ö	number	0		

SOURCE REFERENCE LIST				
Source	Number			
Electric Loco.	1			
Diesel Loco.	2			
Comm. Rail Cars	3			
RRT/LRT	4			
AGT, Steel Wheel	5			
AGT, Rubber Tire	6			
Monorail	7 8			
Maglev	8			
Automobiles	9			
City Buses	10			
Commuter Buses	11			
Rail Yard or Shop	12			
Layover Tracks	13			
Bus Storage Yard	14			
Bus Op. Facility	15			
Bus Transit Center	16			
Parking Garage	17			
Park & Ride Lot	18			

Federal Transit Adminstration
General Transit Noise Assessment
Case: Morton Street

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RESULTS Noise Source All Sources Source 1 Source 2 Source 3

Ldn (dB)	Leq - daytime (dB)	Leq - nighttime (dB)
63	60	55
59	57	52
60	57	52

Enter noise receiver land use category below.

LAND USE CATEGORY	
Noise receiver land use category (1, 2 or 3)	2

NOISE SOURCE PARAMETERS						
Parameter	Source 1		Source 2		Source 3	
Source Num.	Diesel Loco.	2	Comm. Rail Cars	3		0
Dist. to receiver	distance (ft)	125	distance (ft)	125		
Daytime Hours	speed (mph)	70	speed (mph)	70		
(7 AM - 10 PM)	trains/hour	3	trains/hour	3		
	locos/train	1	cars/train	8		
Nighttime Hours	speed (mph)	70	speed (mph)	70		
(10 PM - 7 AM)	trains/hour	1	trains/hour	1		
	locos/train	1	cars/train	8		
Jointed Track?	Y/N	N	Y/N	N		
Embedded Track?	Y/N	N	Y/N	N		
Aerial Structure?	Y/N	N	Y/N	N		
Barrier Present?	Y/N	N	Y/N	N		
Intervening Rows						
of Buildings	number	Ü	number	0		

SOURCE REFERENCE LIST				
Source	Number			
Electric Loco.	1			
Diesel Loco.	2			
Comm. Rail Cars	3			
RRT/LRT	4			
AGT, Steel Wheel	5			
AGT, Rubber Tire	5 6 7 8			
Monorail	7			
Maglev	8			
Automobiles	9			
City Buses	10			
Commuter Buses	11			
Rail Yard or Shop	12			
Layover Tracks	13			
Bus Storage Yard	14			
Bus Op. Facility	15			
Bus Transit Center	16			
Parking Garage	17			
Park & Ride Lot	18			

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General Transit Noise Assessment
Case: Elm Street

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RESULTS
Noise Source
All Sources
Source 1
Source 2
Source 3

Ldn (dB)	Leq - daytime (dB)	Leq - nighttime (dB)
62	59	54
58	56	51
59	56	51

Enter noise receiver land use category below.

LAND USE CATEGORY	
Noise receiver land use category (1, 2 or 3)	2

NOISE SOURCE PARAMETERS						
Parameter	Source 1		Source 2		Source 3	
Source Num.	Diesel Loco.	2	Comm. Rail Cars	3		0
Dist. to receiver	distance (ft)	145	distance (ft)	150		
Daytime Hours	speed (mph)	70	speed (mph)	70		
(7 AM - 10 PM)	trains/hour	3	trains/hour	3		
	locos/train	1	cars/train	8		
Nighttime Hours	speed (mph)	70	speed (mph)	70		
(10 PM - 7 AM)	trains/hour	1	trains/hour	1		
	locos/train	1	cars/train	8		
Jointed Track?	Y/N	N	Y/N	N		
Embedded Track?	Y/N	N	Y/N	N		
Aerial Structure?	Y/N	N	Y/N	N		
Barrier Present?	Y/N	N	Y/N	N		
Intervening Rows						
of Buildings	number	0	number	0		

SOURCE REFERENCE LIST			
Source	Number		
Electric Loco.	1		
Diesel Loco.	2		
Comm. Rail Cars	3		
RRT/LRT	4		
AGT, Steel Wheel	5		
AGT, Rubber Tire	5 6 7 8		
Monorail	7		
Maglev	8		
Automobiles	9		
City Buses	10		
Commuter Buses	11		
Rail Yard or Shop	12		
Layover Tracks	13		
Bus Storage Yard	14		
Bus Op. Facility	15		
Bus Transit Center	16		
Parking Garage	17		
Park & Ride Lot	18		

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General Transit Noise Assessment
Case: Oliver Street

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RESULTS
Noise Source
All Sources
Source 1
Source 2
Source 3

Ldn (dB)	Leq - daytime (dB)	Leq - nighttime (dB)
60	57	52
56	54	49
57	54	49

Enter noise receiver land use category below.

LAND USE CATEGORY	
Noise receiver land use category (1, 2 or 3)	2

NOISE SOURCE PARAMETERS						
Parameter	Source 1		Source 2		Source 3	
Source Num.	Diesel Loco.	2	Comm. Rail Cars	3		0
Dist. to receiver	distance (ft)	200	distance (ft)	200		
Daytime Hours	speed (mph)	70	speed (mph)	70		
(7 AM - 10 PM)	trains/hour	3	trains/hour	3		
	locos/train	1	cars/train	8		
Nighttime Hours	speed (mph)	70	speed (mph)	70		
(10 PM - 7 AM)	trains/hour	1	trains/hour	1		
	locos/train	1	cars/train	8		
Jointed Track?	Y/N	N	Y/N	N		
Embedded Track?	Y/N	N	Y/N	N		
Aerial Structure?	Y/N	N	Y/N	N		
Barrier Present?	Y/N	N	Y/N	N		
Intervening Rows						
of Buildings	number	Ü	number	0		

SOURCE REFERENCE LIST			
Source	Number		
Electric Loco.	1		
Diesel Loco.	2		
Comm. Rail Cars	2 3		
RRT/LRT	4		
AGT, Steel Wheel	5		
AGT, Rubber Tire	6		
Monorail	6 7 8		
Maglev	8		
Automobiles	9		
City Buses	10		
Commuter Buses	11		
Rail Yard or Shop	12		
Layover Tracks	13		
Bus Storage Yard	14		
Bus Op. Facility	15		
Bus Transit Center	16		
Parking Garage	17		
Park & Ride Lot	18		

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General Transit Noise Assessment
Case: Pond Street

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RESULTS Noise Source All Sources Source 1 Source 2 Source 3

Ldn (dB)	Leq - daytime (dB)	Leq - nighttime (dB)
59	56	51
56	53	48
56	53	49

Enter noise receiver land use category below.

LAND USE CATEGORY	
Noise receiver land use category (1, 2 or 3)	2

NOISE SOURCE PARAMETERS						
Parameter	Source 1		Source 2		Source 3	
Source Num.	Diesel Loco.	2	Comm. Rail Cars	3		0
Dist. to receiver	distance (ft)	225	distance (ft)	225		
Daytime Hours	speed (mph)	70	speed (mph)	70		
(7 AM - 10 PM)	trains/hour	3	trains/hour	3		
	locos/train	1	cars/train	8		
Nighttime Hours	speed (mph)	70	speed (mph)	70		
(10 PM - 7 AM)	trains/hour	1	trains/hour	1		
	locos/train	1	cars/train	8		
Jointed Track?	Y/N	N	Y/N	N		
Embedded Track?	Y/N	N	Y/N	N		
Aerial Structure?	Y/N	N	Y/N	N		
Barrier Present?	Y/N	N	Y/N	N		
Intervening Rows						
of Buildings	number	Ü	number	0		

SOURCE REFERENCE LIST			
Source	Number		
Electric Loco.	1		
Diesel Loco.	2		
Comm. Rail Cars	2 3		
RRT/LRT	4		
AGT, Steel Wheel	5		
AGT, Rubber Tire	6		
Monorail	6 7 8		
Maglev	8		
Automobiles	9		
City Buses	10		
Commuter Buses	11		
Rail Yard or Shop	12		
Layover Tracks	13		
Bus Storage Yard	14		
Bus Op. Facility	15		
Bus Transit Center	16		
Parking Garage	17		
Park & Ride Lot	18		

Federal Transit Adminstration
General Transit Noise Assessment
Case: Main Street

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RESULTS Noise Source All Sources Source 1 Source 2 Source 3

Ldn (dB)	Leq - daytime (dB)	Leq - nighttime (dB)
64	61	57
61	58	53
61	59	54

Enter noise receiver land use category below.

LAND USE CATEGORY	
Noise receiver land use category (1, 2 or 3)	2

NOISE SOURCE PARAMETERS						
Parameter	Source 1		Source 2		Source 3	
Source Num.	Diesel Loco.	2	Comm. Rail Cars	3		0
Dist. to receiver	distance (ft)	100	distance (ft)	100		
Daytime Hours	speed (mph)	70	speed (mph)	70		
(7 AM - 10 PM)	trains/hour	3	trains/hour	3		
	locos/train	1	cars/train	8		
Nighttime Hours	speed (mph)	70	speed (mph)	70		
(10 PM - 7 AM)	trains/hour	1	trains/hour	1		
	locos/train	1	cars/train	8		
Jointed Track?	Y/N	N	Y/N	N		
Embedded Track?	Y/N	N	Y/N	N		
Aerial Structure?	Y/N	N	Y/N	N		
Barrier Present?	Y/N	N	Y/N	N		
Intervening Rows						
of Buildings	number	Ö	number	0		

SOURCE REFERENC	E LIST
Source	Number
Electric Loco.	1
Diesel Loco.	2
Comm. Rail Cars	3
RRT/LRT	4
AGT, Steel Wheel	2 3 4 5 6 7 8 9
AGT, Rubber Tire	6
Monorail	7
Maglev	8
Automobiles	9
City Buses	10
Commuter Buses	11
Rail Yard or Shop	12
Layover Tracks	13
Bus Storage Yard	14
Bus Op. Facility	15
Bus Transit Center	16
Parking Garage	17
Park & Ride Lot	18

Federal Transit Adminstration
General Transit Noise Assessment
Case: Bridge Street

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RESULTS Noise Source All Sources Source 1 Source 2 Source 3

Ldn (dB)	Leq - daytime (dB)	Leq - nighttime (dB)
60	57	52
56	54	49
57	54	49

Enter noise receiver land use category below.

LAND USE CATEGORY	
Noise receiver land use category (1, 2 or 3)	2

NOISE SOURCE PA	RAMETERS					
Parameter	Source 1		Source 2		Source 3	
Source Num.	Diesel Loco.	2	Comm. Rail Cars	3		Ö
Dist. to receiver	distance (ft)	200	distance (ft)	200		
Daytime Hours	speed (mph)	70	speed (mph)	70		
(7 AM - 10 PM)	trains/hour	3	trains/hour	3		
	locos/train	1	cars/train	8		
Nighttime Hours	speed (mph)	70	speed (mph)	70		
(10 PM - 7 AM)	trains/hour	1	trains/hour	1		
	locos/train	1	cars/train	8		
Jointed Track?	Y/N	N	Y/N	N		
Embedded Track?	Y/N	N	Y/N	N		
Aerial Structure?	Y/N	N	Y/N	N		
Barrier Present?	Y/N	N	Y/N	N		
Intervening Rows						
of Buildings	number	0	number	0		

SOURCE REFERENC	E LIST
Source	Number
Electric Loco.	1
Diesel Loco.	2
Comm. Rail Cars	3
RRT/LRT	4
AGT, Steel Wheel	2 3 4 5 6 7 8 9
AGT, Rubber Tire	6
Monorail	7
Maglev	8
Automobiles	9
City Buses	10
Commuter Buses	11
Rail Yard or Shop	12
Layover Tracks	13
Bus Storage Yard	14
Bus Op. Facility	15
Bus Transit Center	16
Parking Garage	17
Park & Ride Lot	18

Federal Transit Adminstration
General Transit Noise Assessment
Case: Short Street

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RESULTS Noise Source All Sources Source 1 Source 2 Source 3

Ldn (dB)	Leq - daytime (dB)	Leq - nighttime (dB)
62	59	54
58	56	51
59	56	51

Enter noise receiver land use category below.

LAND USE CATEGORY	
Noise receiver land use category (1, 2 or 3)	2

NOISE SOURCE PA	RAMETERS					
Parameter	Source 1		Source 2		Source 3	
Source Num.	Diesel Loco.	2	Comm. Rail Cars	3		0
Dist. to receiver	distance (ft)	145	distance (ft)	150		
Daytime Hours	speed (mph)	70	speed (mph)	70		
(7 AM - 10 PM)	trains/hour	3	trains/hour	3		
	locos/train	1	cars/train	8		
Nighttime Hours	speed (mph)	70	speed (mph)	70		
(10 PM - 7 AM)	trains/hour	1	trains/hour	1		
	locos/train	1	cars/train	8		
Jointed Track?	Y/N	N	Y/N	N		
Embedded Track?	Y/N	N	Y/N	N		
Aerial Structure?	Y/N	N	Y/N	N		
Barrier Present?	Y/N	N	Y/N	N		
Intervening Rows						
of Buildings	number	O	number	0		

SOURCE REFERENC	E LIST
Source	Number
Electric Loco.	1
Diesel Loco.	2
Comm. Rail Cars	2 3
RRT/LRT	4
AGT, Steel Wheel	5
AGT, Rubber Tire	6
Monorail	6 7 8
Maglev	8
Automobiles	9
City Buses	10
Commuter Buses	11
Rail Yard or Shop	12
Layover Tracks	13
Bus Storage Yard	14
Bus Op. Facility	15
Bus Transit Center	16
Parking Garage	17
Park & Ride Lot	18

Federal Transit Adminstration
General Transit Noise Assessment
Case: Depot Street

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RESULTS Noise Source All Sources Source 1 Source 2 Source 3

Ldn (dB)	Leq - daytime (dB)	Leq - nighttime (dB)
66	63	58
63	60	55
63	60	56

Enter noise receiver land use category below.

LAND USE CATEGORY	
Noise receiver land use category (1, 2 or 3)	2

NOISE SOURCE PARAMETERS						
Parameter	Source 1		Source 2		Source 3	
Source Num.	Diesel Loco.	2	Comm. Rail Cars	3		0
Dist. to receiver	distance (ft)	75	distance (ft)	75		
Daytime Hours	speed (mph)	70	speed (mph)	70		
(7 AM - 10 PM)	trains/hour	3	trains/hour	3		
	locos/train	1	cars/train	8		
Nighttime Hours	speed (mph)	70	speed (mph)	70		
(10 PM - 7 AM)	trains/hour	1	trains/hour	1		
	locos/train	1	cars/train	8		
Jointed Track?	Y/N	N	Y/N	N		
Embedded Track?	Y/N	N	Y/N	N		
Aerial Structure?	Y/N	N	Y/N	N		
Barrier Present?	Y/N	N	Y/N	N		
Intervening Rows						
of Buildings	number	Ü	number	O		

SOURCE REFERENCE LIST			
Source	Number		
Electric Loco.	1		
Diesel Loco.	2		
Comm. Rail Cars	2 3		
RRT/LRT	4		
AGT, Steel Wheel	5		
AGT, Rubber Tire	6		
Monorail	6 7 8		
Maglev	8		
Automobiles	9		
City Buses	10		
Commuter Buses	11		
Rail Yard or Shop	12		
Layover Tracks	13		
Bus Storage Yard	14		
Bus Op. Facility	15		
Bus Transit Center	16		
Parking Garage	17		
Park & Ride Lot	18		

Federal Transit Adminstration
General Transit Noise Assessment
Case: Purchase Street

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RESULTS
Noise Source
All Sources
Source 1
Source 2
Source 3

Ldn (dB)	Leq - daytime (dB)	Leq - nighttime (dB)
62	59	54
58	56	51
59	56	51

Enter noise receiver land use category below.

LAND USE CATEGORY	
Noise receiver land use category (1, 2 or 3)	2

NOISE SOURCE PARAMETERS						
Parameter	Source 1		Source 2		Source 3	
Source Num.	Diesel Loco.	2	Comm. Rail Cars	3		0
Dist. to receiver	distance (ft)	145	distance (ft)	150		
Daytime Hours	speed (mph)	70	speed (mph)	70		
(7 AM - 10 PM)	trains/hour	3	trains/hour	3		
	locos/train	1	cars/train	8		
Nighttime Hours	speed (mph)	70	speed (mph)	70		
(10 PM - 7 AM)	trains/hour	1	trains/hour	1		
	locos/train	1	cars/train	8		
Jointed Track?	Y/N	N	Y/N	N		
Embedded Track?	Y/N	N	Y/N	N		
Aerial Structure?	Y/N	N	Y/N	N		
Barrier Present?	Y/N	N	Y/N	N		
Intervening Rows						
of Buildings	number	O	number	0		

SOURCE REFERENCE LIST			
Source	Number		
Electric Loco.	1		
Diesel Loco.	2		
Comm. Rail Cars	2 3		
RRT/LRT	4		
AGT, Steel Wheel	5		
AGT, Rubber Tire	6		
Monorail	6 7 8		
Maglev	8		
Automobiles	9		
City Buses	10		
Commuter Buses	11		
Rail Yard or Shop	12		
Layover Tracks	13		
Bus Storage Yard	14		
Bus Op. Facility	15		
Bus Transit Center	16		
Parking Garage	17		
Park & Ride Lot	18		

Federal Transit Adminstration
General Transit Noise Assessment
Case: Prospect Street

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RESULTS Noise Source All Sources Source 1 Source 2 Source 3

Ldn (dB)	Leq - daytime (dB)	Leq - nighttime (dB)
65	62	57
61	58	54
62	59	55

Enter noise receiver land use category below.

LAND USE CATEGORY	
Noise receiver land use category (1, 2 or 3)	2

NOISE SOURCE PARAMETERS						
Parameter	Source 1		Source 2		Source 3	
Source Num.	Diesel Loco.	2	Comm. Rail Cars	3		Ö
Dist. to receiver	distance (ft)	95	distance (ft)	90		
Daytime Hours	speed (mph)	70	speed (mph)	70		
(7 AM - 10 PM)	trains/hour	3	trains/hour	3		
	locos/train	1	cars/train	8		
Nighttime Hours	speed (mph)	70	speed (mph)	70		
(10 PM - 7 AM)	trains/hour	1	trains/hour	1		
	locos/train	1	cars/train	8		
Jointed Track?	Y/N	N	Y/N	N		
Embedded Track?	Y/N	N	Y/N	N		
Aerial Structure?	Y/N	N	Y/N	N		
Barrier Present?	Y/N	N	Y/N	N		
Intervening Rows						
of Buildings	number	0	number	0		

SOURCE REFERENC	E LIST
Source	Number
Electric Loco.	1
Diesel Loco.	2
Comm. Rail Cars	3
RRT/LRT	4
AGT, Steel Wheel	2 3 4 5 6 7 8 9
AGT, Rubber Tire	6
Monorail	7
Maglev	8
Automobiles	9
City Buses	10
Commuter Buses	11
Rail Yard or Shop	12
Layover Tracks	13
Bus Storage Yard	14
Bus Op. Facility	15
Bus Transit Center	16
Parking Garage	17
Park & Ride Lot	18

Federal Transit Adminstration
General Transit Noise Assessment
Case: Elm Street - Raynham

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RESULTS
Noise Source
All Sources
Source 1
Source 2
Source 3

Ldn (dB)	Leq - daytime (dB)	Leq - nighttime (dB)
61	59	54
58	55	51
59	56	51

Enter noise receiver land use category below.

LAND USE CATEGORY	
Noise receiver land use category (1, 2 or 3)	2

NOISE SOURCE PARAMETERS						
Parameter	Source 1		Source 2		Source 3	
Source Num.	Diesel Loco.	2	Comm. Rail Cars	3		0
Dist. to receiver	distance (ft)	150	distance (ft)	150		
Daytime Hours	speed (mph)	70	speed (mph)	70		
(7 AM - 10 PM)	trains/hour	3	trains/hour	3		
	locos/train	1	cars/train	8		
Nighttime Hours	speed (mph)	70	speed (mph)	70		
(10 PM - 7 AM)	trains/hour	1	trains/hour	1		
	locos/train	1	cars/train	8		
Jointed Track?	Y/N	N	Y/N	N		
Embedded Track?	Y/N	N	Y/N	N		
Aerial Structure?	Y/N	N	Y/N	N		
Barrier Present?	Y/N	N	Y/N	N		
Intervening Rows						
of Buildings	number	O	number	0		

SOURCE REFERENCE LIST			
Source	Number		
Electric Loco.	1		
Diesel Loco.	2		
Comm. Rail Cars	3		
RRT/LRT	4		
AGT, Steel Wheel	2 3 4 5 6 7 8 9		
AGT, Rubber Tire	6		
Monorail	7		
Maglev	8		
Automobiles	9		
City Buses	10		
Commuter Buses	11		
Rail Yard or Shop	12		
Layover Tracks	13		
Bus Storage Yard	14		
Bus Op. Facility	15		
Bus Transit Center	16		
Parking Garage	17		
Park & Ride Lot	18		

Federal Transit Adminstration
General Transit Noise Assessment
Case: Carver Street

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RESULTS
Noise Source
All Sources
Source 1
Source 2
Source 3

Ldn (dB)	Leq - daytime (dB)	Leq - nighttime (dB)
63	60	55
59	57	52
60	57	52

Enter noise receiver land use category below.

LAND USE CATEGORY	
Noise receiver land use category (1, 2 or 3)	2

NOISE SOURCE PARAMETERS						
Parameter	Source 1		Source 2		Source 3	
Source Num.	Diesel Loco.	2	Comm. Rail Cars	3		0
Dist. to receiver	distance (ft)	125	distance (ft)	125		
Daytime Hours	speed (mph)	70	speed (mph)	70		
(7 AM - 10 PM)	trains/hour	3	trains/hour	3		
	locos/train	1	cars/train	8		
Nighttime Hours	speed (mph)	70	speed (mph)	70		
(10 PM - 7 AM)	trains/hour	1	trains/hour	1		
	locos/train	1	cars/train	8		
Jointed Track?	Y/N	N	Y/N	N		
Embedded Track?	Y/N	N	Y/N	N		
Aerial Structure?	Y/N	N	Y/N	N		
Barrier Present?	Y/N	N	Y/N	N		
Intervening Rows						
of Buildings	number	Ü	number	0		

SOURCE REFERENCE LIST			
Source	Number		
Electric Loco.	1		
Diesel Loco.	2		
Comm. Rail Cars	2 3		
RRT/LRT	4		
AGT, Steel Wheel	5		
AGT, Rubber Tire	6		
Monorail	6 7 8		
Maglev	8		
Automobiles	9		
City Buses	10		
Commuter Buses	11		
Rail Yard or Shop	12		
Layover Tracks	13		
Bus Storage Yard	14		
Bus Op. Facility	15		
Bus Transit Center	16		
Parking Garage	17		
Park & Ride Lot	18		

Federal Transit Adminstration
General Transit Noise Assessment
Case: Route 138

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RESULTS Noise Source All Sources Source 1 Source 2 Source 3

Ldn (dB)	Leq - daytime (dB)	Leq - nighttime (dB)
65	63	58
62	59	55
63	60	55

Enter noise receiver land use category below.

LAND USE CATEGORY	
Noise receiver land use category (1, 2 or 3)	2

NOISE SOURCE PARAMETERS						
Parameter	Source 1		Source 2		Source 3	
Source Num.	Diesel Loco.	2	Comm. Rail Cars	3		O
Dist. to receiver	distance (ft)	81	distance (ft)	81		
Daytime Hours	speed (mph)	70	speed (mph)	70		
(7 AM - 10 PM)	trains/hour	3	trains/hour	3		
	locos/train	1	cars/train	8		
Nighttime Hours	speed (mph)	70	speed (mph)	70		
(10 PM - 7 AM)	trains/hour	1	trains/hour	1		
	locos/train	1	cars/train	8		
Jointed Track?	Y/N	N	Y/N	N		
Embedded Track?	Y/N	N	Y/N	N		
Aerial Structure?	Y/N	N	Y/N	N		
Barrier Present?	Y/N	N	Y/N	N		
Intervening Rows		***************				0,00,00,00,000
of Buildings	number	0	number	0		

SOURCE REFERENCE LIST			
Source	Number		
Electric Loco.	1		
Diesel Loco.	2		
Comm. Rail Cars	2 3		
RRT/LRT	4		
AGT, Steel Wheel	5		
AGT, Rubber Tire	6		
Monorail	6 7 8		
Maglev	8		
Automobiles	9		
City Buses	10		
Commuter Buses	11		
Rail Yard or Shop	12		
Layover Tracks	13		
Bus Storage Yard	14		
Bus Op. Facility	15		
Bus Transit Center	16		
Parking Garage	17		
Park & Ride Lot	18		

Federal Transit Adminstration
General Transit Noise Assessment
Case: Britton Street

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RESULTS Noise Source All Sources Source 1 Source 2 Source 3

Ldn (dB)	Leq - daytime (dB)	Leq - nighttime (dB)
61	59	54
58	55	51
59	56	51

Enter noise receiver land use category below.

LAND USE CATEGORY	
Noise receiver land use category (1, 2 or 3)	2

NOISE SOURCE PARAMETERS						
Parameter	Source 1		Source 2		Source 3	
Source Num.	Diesel Loco.	2	Comm. Rail Cars	3		0
Dist. to receiver	distance (ft)	150	distance (ft)	150		
Daytime Hours	speed (mph)	70	speed (mph)	70		
(7 AM - 10 PM)	trains/hour	3	trains/hour	3		
	locos/train	1	cars/train	8		
Nighttime Hours	speed (mph)	70	speed (mph)	70		
(10 PM - 7 AM)	trains/hour	1	trains/hour	1		
	locos/train	1	cars/train	8		
Jointed Track?	Y/N	N	Y/N	N		
Embedded Track?	Y/N	N	Y/N	N		
Aerial Structure?	Y/N	N	Y/N	N		
Barrier Present?	Y/N	N	Y/N	N		
Intervening Rows						·
of Buildings	number	0	number	0		

SOURCE REFERENCE LIST			
Source	Number		
Electric Loco.	1		
Diesel Loco.	2		
Comm. Rail Cars	2 3		
RRT/LRT	4		
AGT, Steel Wheel	5		
AGT, Rubber Tire	6		
Monorail	6 7 8		
Maglev	8		
Automobiles	9		
City Buses	10		
Commuter Buses	11		
Rail Yard or Shop	12		
Layover Tracks	13		
Bus Storage Yard	14		
Bus Op. Facility	15		
Bus Transit Center	16		
Parking Garage	17		
Park & Ride Lot	18		

Federal Transit Adminstration
General Transit Noise Assessment
Case: King Phillip Street

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RESULTS Noise Source All Sources Source 1 Source 2 Source 3

Ldn (dB)	Leq - daytime (dB)	Leq - nighttime (dB)
62	59	54
58	55	51
59	56	51

Enter noise receiver land use category below.

LAND USE CATEGORY	
Noise receiver land use category (1, 2 or 3)	2

NOISE SOURCE PARAMETERS						
Parameter	Source 1		Source 2		Source 3	
Source Num.	Diesel Loco.	2	Comm. Rail Cars	3		0
Dist. to receiver	distance (ft)	150	distance (ft)	145		
Daytime Hours	speed (mph)	70	speed (mph)	70		
(7 AM - 10 PM)	trains/hour	3	trains/hour	3		
	locos/train	1	cars/train	8		
Nighttime Hours	speed (mph)	70	speed (mph)	70		
(10 PM - 7 AM)	trains/hour	1	trains/hour	1		
	locos/train	1	cars/train	8		
Jointed Track?	Y/N	N	Y/N	N		
Embedded Track?	Y/N	N	Y/N	N		
Aerial Structure?	Y/N	N	Y/N	N		
Barrier Present?	Y/N	N	Y/N	N		
Intervening Rows						
of Buildings	number	Ö	number	0		

SOURCE REFERENCE LIST			
Source	Number		
Electric Loco.	1		
Diesel Loco.	2		
Comm. Rail Cars	2 3		
RRT/LRT	4		
AGT, Steel Wheel	5		
AGT, Rubber Tire	6		
Monorail	6 7 8		
Maglev	8		
Automobiles	9		
City Buses	10		
Commuter Buses	11		
Rail Yard or Shop	12		
Layover Tracks	13		
Bus Storage Yard	14		
Bus Op. Facility	15		
Bus Transit Center	16		
Parking Garage	17		
Park & Ride Lot	18		

Federal Transit Adminstration
General Transit Noise Assessment
Case: Longmeadow Street

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RESULTS
Noise Source
All Sources
Source 1
Source 2
Source 3

Ldn (dB)	Leq - daytime (dB)	Leq - nighttime (dB)
66	63	58
63	60	55
63	60	56

Enter noise receiver land use category below.

LAND USE CATEGORY	
Noise receiver land use category (1, 2 or 3)	2

NOISE SOURCE PARAMETERS						
Parameter	Source 1		Source 2		Source 3	
Source Num.	Diesel Loco.	2	Comm. Rail Cars	3		0
Dist. to receiver	distance (ft)	75	distance (ft)	75		
Daytime Hours	speed (mph)	70	speed (mph)	70		
(7 AM - 10 PM)	trains/hour	3	trains/hour	3		
	locos/train	1	cars/train	8		
Nighttime Hours	speed (mph)	70	speed (mph)	70		
(10 PM - 7 AM)	trains/hour	1	trains/hour	1		
	locos/train	1	cars/train	8		
Jointed Track?	Y/N	N	Y/N	N		
Embedded Track?	Y/N	N	Y/N	N		
Aerial Structure?	Y/N	N	Y/N	N		
Barrier Present?	Y/N	N	Y/N	N		
Intervening Rows						
of Buildings	number	Ü	number	O		

SOURCE REFERENCE LIST			
Source	Number		
Electric Loco.	1		
Diesel Loco.	2		
Comm. Rail Cars	3		
RRT/LRT	4		
AGT, Steel Wheel	5 6 7 8		
AGT, Rubber Tire	6		
Monorail	7		
Maglev	8		
Automobiles	9		
City Buses	10		
Commuter Buses	11		
Rail Yard or Shop	12		
Layover Tracks	13		
Bus Storage Yard	14		
Bus Op. Facility	15		
Bus Transit Center	16		
Parking Garage	17		
Park & Ride Lot	18		

Federal Transit Adminstration
General Transit Noise Assessment
Case:
Dean Street

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RESULTS Noise Source All Sources Source 1 Source 2 Source 3

Ldn (dB)	Leq - daytime (dB)	Leq - nighttime (dB)
64	61	57
61	58	53
61	59	54

Enter noise receiver land use category below.

LAND USE CATEGORY	
Noise receiver land use category (1, 2 or 3)	2

NOISE SOURCE PARAMETERS						
Parameter	Source 1		Source 2		Source 3	
Source Num.	Diesel Loco.	2	Comm. Rail Cars	3		O
Dist. to receiver	distance (ft)	100	distance (ft)	100		
Daytime Hours	speed (mph)	70	speed (mph)	70		
(7 AM - 10 PM)	trains/hour	3	trains/hour	3		
	locos/train	1	cars/train	8		
Nighttime Hours	speed (mph)	70	speed (mph)	70		
(10 PM - 7 AM)	trains/hour	1	trains/hour	1		
	locos/train	1	cars/train	8		
Jointed Track?	Y/N	N	Y/N	N		
Embedded Track?	Y/N	Ν	Y/N	N		
Aerial Structure?	Y/N	N	Y/N	N		
Barrier Present?	Y/N	N	Y/N	N		
Intervening Rows		*************************				0,00,00,000,000,000
of Buildings	number	0	number	0		

SOURCE REFERENCE LIST				
Source	Number			
Electric Loco.	1			
Diesel Loco.	2			
Comm. Rail Cars	2 3			
RRT/LRT	4			
AGT, Steel Wheel	5			
AGT, Rubber Tire	6 7 8			
Monorail	7			
Maglev	8			
Automobiles	9			
City Buses	10			
Commuter Buses	11			
Rail Yard or Shop	12			
Layover Tracks	13			
Bus Storage Yard	14			
Bus Op. Facility	15			
Bus Transit Center	16			
Parking Garage	17			
Park & Ride Lot	18			



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Whittenton Electric



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New Bedford/Fall River Modeled Noise Levels Impact Ranges based upon various Existing Noise Levels

When	Severe		Moderate		No Impact	
Existing dba	greater than			<u>between</u>	less than	farther than
	dBA	feet	dBA	feet	dBA	feet
60	63	115	58-63	115-225	58	225
61	64	100	59-64	100-200	59	200
62	64	100	59-64	100-200	59	200
63	65	75	60-65	75-175	60	175
64	65	75	60-65	75-175	60	175
65	66	65	61-66	65-150	61	150
66	67	55	62-67	55-135	62	135
67	67	55	62-67	55-135	62	135
68	68	50	63-68	50-115	63	115
69	69	45	64-69	45-100	64	100
70	69	45	64-69	45-100	64	100
71	70	40	66-70	40-65	66	65
72	71	30	66-71	30-65	66	65

Cogmont	MP	No-build	Duild	Severe - closer than (feet)	Quantity Severe	Moderate - closer than (feet)	Quantity Moderate
Segment			Build	` ,		` ′	
Brock Street	4.30	63	#REF!	65	3	150	8
Plain Street	4.60	59	#REF!	100	8	200	14
Morton Street	5.20	69	#REF!	30	0	65	0
North Easton Station	6.40	62	62	75	0	175	0
Elm Street (MP 7.60)	7.60	67	#REF!	45	0	100	10
Oliver Street	7.80	58	#REF!	75	0	175	2
Pond Street	7.90	58	#REF!	75	0	175	8
Main Street	8.05	63	#REF!	55	6	135	15
Bridge Street	8.40	58	#REF!	100	2	200	15
Short Street	9.55	64	#REF!	55	0	135	5
Depot Street/123	10.00	65	#REF!	45	0	100	1
Purchase Street	10.20	61	#REF!	75	0	175	2
Prospect Street	10.90	60	#REF!	100	0	200	2
Raynham Station	14.10	63	63	65	0	150	0
Elm Street (MP 15.40)	15.40	57	#REF!	100	4	200	3
Carver Street	15.80	60	#REF!	100	1	200	1
Route 138	16.40	67	#REF!	45	0	100	4
Britton Street	16.50	57	#REF!	115	4	225	4
King Phillip Street	17.10	63	#REF!	55	4	135	3
Longmeadow Road	18.90	67	#REF!	45	0	100	2
Dean Street Station	19.20	52	55	150	0	300	0
Dean Street	19.40	65	#REF!	50	0	115	2
Ingell Street	61.92	63	#REF!	55	0	135	0
Hart Street	62.43	65	#REF!	50	0	115	6
Total					32		107

Leq (dBA)

Existing
Distance to Track Background

	Distance to Track	Background				
School	(feet)	Noise	No-Build	Project	Build	Impact
Jones School	1,400					
Kimball School	1,400					
Unionville School	3,200					
Stonehill College	5,500					
Parkview School	2,300					
Easton Jr. High School	3,100					
Ames Highschoo	3,100					
Holy Cross Seminary	4,000					
School building near Easton Center	1,700					
Southeastern Regional Vocational High School	750	61	62	50	62	No Impact
High School	3,200					
Pole School	2,000					
Summer Street School	600	65	66	51	66	No Impact



Technical Report Noise and Vibration Draft

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				At-Grade				trains/h	trains/h	Building		Existing	trains per		trains per	Existing
Site #	Location	Milepost	M.A.S.	Crossing?	Horn/Bell	locomotive	cars	r day	r night	Offset (ft.)	Quantity	Leq (day)	hour	Leq (night)	hour	Ldn¹
1	Brock Street	4.30	70	Yes	Horn	1	8	2.47	0.33	75	20	58	2.47	59	0.33	65
2	Plain Street	4.60	70	Yes	Horn	1	8	2.47	0.33	75	10	60	2.47	55	0.33	62
3	Morton Street	5.20	70	Yes	Horn	1	8	2.47	0.33	100	5	67	2.47	65	0.33	72
N	North Easton Station	6.40	70	Station	Horn	1	8	2.47	0.33	1300	5					
4	Elm Street (MP 7.60)	7.60	70	Yes	Horn	1	8	2.47	0.33	75	10	65	2.47	63	0.33	70
5	Oliver Street	7.80	70	Yes	Horn	1	8	2.47	0.33	75	5	63	2.47	54	0.33	63
6	Pond Street	7.90	70	No	n/a	1	8	2.47	0.33	75	0	62	2.47	54	0.33	63
7	Main Street	8.05	70	No	n/a	1	8	2.47	0.33	75	5	64	2.47	59	0.33	66
8	Bridge Street	8.40	70	No	n/a	1	8	2.47	0.33	75	25	58	2.47	54	0.33	61
9	Short Street	9.55	70	Yes	Horn	1	8	2.47	0.33	100	20	63	2.47	60	0.33	67
10	Depot Street/123	10.00	70	Yes	Horn	1	8	2.47	0.33	75	5	67	2.47	61	0.33	69
11	Purchase Street	10.20	70	Yes	Horn	1	8	2.47	0.33	300	10	60	2.47	57	0.33	64
12	Prospect Street	10.90	70	Yes	Horn	1	8	2.47	0.33	100	2	55	2.47	56	0.33	62
	Raynham Station	14.10	70	Station	Horn	1	8	2.47	0.33	1800	5					
13	Elm Street (MP 15.40)	15.40	70	Yes	Horn	1	8	2.47	0.33	75	5	58	2.47	53	0.33	61
14	Carver Street	15.80	70	Yes	Horn	1	8	2.47	0.33	75	3	56	2.47	56	0.33	62
15	Route 138	16.40	70	Yes	Horn	1	8	2.47	0.33	100	5	65	2.47	63	0.33	70
16	Britton Street	16.50	70	Yes	Horn	1	8	2.47	0.33	75	3	58	2.47	53	0.33	60
17	King Phillip Street	17.10	70	Yes	Horn	1	8	2.47	0.33	75	10	64	2.47	59	0.33	66
18	Longmeadow Road	18.90	70	Yes	Horn	1	8	2.47	0.33	75	5	61	2.47	63	0.33	69
]	Dean Street Station	19.20	40	Station	Bell	1	8	2.40	0.44	600	5					
19	Dean Street	19.40	40	Yes	Bell	1	8	2.40	0.44	n/a	2	65	2.40	61	0.44	68
20	Ingell Street	61.92	40	Yes	Bell	1	8	2.40	0.44	200	15	59	2.40	59	0.44	66
21	Hart Street	62.43	40	Yes	Bell	1	8	2.40	0.44	75	10	65	2.40	61	0.44	68

 $^{1:} L_{dn} \ computed \ using: \ 10*LOG((15*10^{(}L_{eq}day/10))+(9*10^{(}(L_{eq}nite+10)/10)))-13.8$

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RESULTS Noise Source All Sources Source 1 Source 2 Source 3

Ldn (dB)	Leq - daytime (dB)	Leq - nighttime (dB)
63	63	54
62	61	52
58	58	49

Enter noise receiver land use category below.

LAND USE CATEGORY	
Noise receiver land use category (1, 2 or 3)	2

NOISE SOURCE PA	RAMETERS	NOISE SOURCE PARAMETERS							
Parameter	Source 1		Source 2		Source 3				
Source Num.	Diesel Loco.	2	Comm. Rail Cars	3					
Dist. to receiver	distance (ft)	50	distance (ft)	50					
Daytime Hours	speed (mph)	30	speed (mph)	30					
(7 AM - 10 PM)	trains/hour	2.47	trains/hour	2.47					
	locos/train	1	cars/train	8					
Nighttime Hours	speed (mph)	30	speed (mph)	30					
(10 PM - 7 AM)	trains/hour	0.33	trains/hour	0.33					
	locos/train	1	cars/train	8					
Jointed Track?	Y/N	N	Y/N	N					
Embedded Track?	Y/N	Y	Y/N	Y					
Aerial Structure?	Y/N	N	Y/N	N					
Barrier Present?	Y/N	N	Y/N	N					
Intervening Rows									
of Buildings	number	Ü	number	0					

SOURCE REFERENC	E LIST
Source	Number
Electric Loco.	1
Diesel Loco.	2
Comm. Rail Cars	2 3 4
RRT/LRT	
AGT, Steel Wheel	5 6 7 8 9
AGT, Rubber Tire	6
Monorail	7
Maglev	8
Automobiles	9
City Buses	10
Commuter Buses	11
Rail Yard or Shop	12
Layover Tracks	13
Bus Storage Yard	14
Bus Op. Facility	15
Bus Transit Center	16
Parking Garage	17
Park & Ride Lot	18

New Bedford/Fa Modeled Noise I		Crossing Type - Grade, Overhead,			Building	Rail	L Existing Road	_eq Future	e No-	Build	difference (Build - Existing)		Ldn		Build	difference (Build - Existing)
	Milepost	Underground, Station	Horn Noise	Speed Used	Offset (ft.)	Project	(Monitored)	Buil	d	Condition	dbA	Rail Project	Existing (Monitored)	Future No-Build	Condition	dbA
1 Brock Street	4.30	G	Yes	30	75	#REF!	5	58	59	#REF!	#REF!	#REF!	62	63	#REF!	#REF!
2 Plain Street	4.60	G	Yes	30	75	#REF!	6	60	61	#REF!	#REF!	#REF!	58	59	#REF!	#REF!
3 Morton Street	5.20	G	Yes	30	100	#REF!	6	67	68	#REF!	#REF!	#REF!	68	69	#REF!	#REF!
North Easton Station	6.40	Sta.	No		1,200	47	6	64	65	65	1	47	61	62	62	1
4 Elm Street (MP 7.60)	7.60	G	Yes	30	75	#REF!	6	65	66	#REF!	#REF!	#REF!	66	67	#REF!	#REF!
5 Oliver Street	7.80	G	Yes	30	100	#REF!	6	33	64	#REF!	#REF!	#REF!	57	58	#REF!	#REF!
6 Pond Street	7.90	UG	No	30	100	#REF!	6	62	63	#REF!	#REF!	#REF!	57	58	#REF!	#REF!
7 Main Street	8.05	ОН	No	40	75	#REF!	6	64	65	#REF!	#REF!	#REF!	62	63	#REF!	#REF!
8 Bridge Street	8.40	ОН	No	50	75	#REF!	5	58	59	#REF!	#REF!	#REF!	57	58	#REF!	#REF!
9 Short Street	9.55	G	Yes	70	100	#REF!	6	33	64	#REF!	#REF!	#REF!	63	64	#REF!	#REF!
10 Depot Street/123	10.00	G	Yes	70	75	#REF!	6	67	68	#REF!	#REF!	#REF!	64	65	#REF!	#REF!
11 Purchase Street	10.20	G	Yes	70	300	#REF!	6	60	61	#REF!	#REF!	#REF!	60	61	#REF!	#REF!
12 Prospect Street	10.90	G	Yes	70	100	#REF!	5	55	56	#REF!	#REF!	#REF!	59	60	#REF!	#REF!
Raynham Station	14.10	Sta.	No		1,600	46	6	35	66	66	1	46	62	63	63	1
13 Elm Street (MP 15.40)	15.40	G	Yes	70	100	#REF!	5	58	59	#REF!	#REF!	#REF!	56	57	#REF!	#REF!
14 Carver Street	15.80	G	Yes	70	75	#REF!	5	56	57	#REF!	#REF!	#REF!	59	60	#REF!	#REF!
15 Route 138	16.40	G	Yes	70	75	#REF!	6	65	66	#REF!	#REF!	#REF!	66	67	#REF!	#REF!
16 Britton Street	16.50	G	Yes	70	75	#REF!	5	58	59	#REF!	#REF!	#REF!	56	57	#REF!	#REF!
17 King Phillip Street	17.10	G	Yes	70	100	#REF!	6	64	65	#REF!	#REF!	#REF!	62	63	#REF!	#REF!
18 Longmeadow Road	18.90	G	Yes	30	300	#REF!	6	31	62	#REF!	#REF!	#REF!	66	67	#REF!	#REF!
Dean Street Station	19.20	Sta.	No		600	52	5	54	55	57	3	52	51	52	55	4
19 Dean Street	19.40	G	Yes	30	75	#REF!	6	65	66	#REF!	#REF!	#REF!	64	65	#REF!	#REF!
20 Ingell Street	61.92	G	Yes	30	100	#REF!	5	59	60	#REF!	#REF!	#REF!	62	63	#REF!	#REF!
21 Hart Street	62.43	G	Yes	30	75	#REF!	6	65	66	#REF!	#REF!	#REF!	64	65	#REF!	#REF!
22 High Street Freetown		G	Yes	30	250	#REF!		-	1	#REF!	#REF!	#REF!	57	58	#REF!	#REF!



Technical Report Noise and Vibration Draft

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Federal Transit Adminstration General Transit Noise Assessment Case:

Britton St / King Philip St

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RESULTS Noise Source All Sources Source 1 Source 2 Source 3

Ldn (dB)	Leq - daytime (dB)	Leq - nighttime (dB)
61	58	53
57	54	49
59	56	51

Enter noise receiver land use category below.

LAND USE CATEGORY	
Noise receiver land use category (1, 2 or 3)	2

NOISE SOURCE PA	NOISE SOURCE PARAMETERS							
Parameter	Source 1	Source 2		Source 3				
Source Num.	Electric Loco.	1	Comm. Rail Cars	3		0		
Dist. to receiver	distance (ft)	125	distance (ft)	125				
Daytime Hours	speed (mph)	60	speed (mph)	60				
(7 AM - 10 PM)	trains/hour	3	trains/hour	3				
	locos/train	1	cars/train	8				
Nighttime Hours	speed (mph)	60	speed (mph)	60				
(10 PM - 7 AM)	trains/hour	1	trains/hour	1				
	locos/train	1	cars/train	8				
Jointed Track?	Y/N	N	Y/N	N				
Embedded Track?	Y/N	N	Y/N	N				
Aerial Structure?	Y/N	N	Y/N	N				
Barrier Present?	Y/N	N	Y/N	N				
Intervening Rows								
of Buildings	number	0	number	0				

SOURCE REFERENC	E LIST
Source	Number
Electric Loco.	1
Diesel Loco.	2
Comm. Rail Cars	3
RRT/LRT	4
AGT, Steel Wheel	5
AGT, Rubber Tire	5 6 7 8
Monorail	7
Maglev	8
Automobiles	9
City Buses	10
Commuter Buses	11
Rail Yard or Shop	12
Layover Tracks	13
Bus Storage Yard	14
Bus Op. Facility	15
Bus Transit Center	16
Parking Garage	17
Park & Ride Lot	18

Federal Transit Adminstration
General Transit Noise Assessment
Case: Redwood Drive

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RESULTS
Noise Source
All Sources
Source 1
Source 2
Source 3

Ldn (dB)	Leq - daytime (dB)	Leq - nighttime (dB)
61	58	53
57	54	49
59	56	51

Enter noise receiver land use category below.

LAND USE CATEGORY	
Noise receiver land use category (1, 2 or 3)	2

NOISE SOURCE PARAMETERS						
Parameter	Source 1		Source 2		Source 3	
Source Num.	Electric Loco.	1	Comm. Rail Cars	3		0
Dist. to receiver	distance (ft)	125	distance (ft)	125		
Daytime Hours	speed (mph)	60	speed (mph)	60		
(7 AM - 10 PM)	trains/hour	3	trains/hour	3		
	locos/train	1	cars/train	8		
Nighttime Hours	speed (mph)	60	speed (mph)	60		
(10 PM - 7 AM)	trains/hour	1	trains/hour	1		
	locos/train	1	cars/train	8		
Jointed Track?	Y/N	N	Y/N	N		
Embedded Track?	Y/N	N	Y/N	N		
Aerial Structure?	Y/N	N	Y/N	N		
Barrier Present?	Y/N	N	Y/N	N		
Intervening Rows						
of Buildings	number	Û	number	0		

SOURCE REFERENC	E LIST
Source	Number
Electric Loco.	1
Diesel Loco.	2
Comm. Rail Cars	3
RRT/LRT	4
AGT, Steel Wheel	2 3 4 5 6 7 8 9
AGT, Rubber Tire	6
Monorail	7
Maglev	8
Automobiles	9
City Buses	10
Commuter Buses	11
Rail Yard or Shop	12
Layover Tracks	13
Bus Storage Yard	14
Bus Op. Facility	15
Bus Transit Center	16
Parking Garage	17
Park & Ride Lot	18

Federal Transit Adminstration
General Transit Noise Assessment
Case: Third Avenue

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RESULTS Noise Source All Sources Source 1 Source 2 Source 3

Ldn (dB)	Leq - daytime (dB)	Leq - nighttime (dB)
66	64	59
64	61	56
63	60	56

Enter noise receiver land use category below.

LAND USE CATEGORY	
Noise receiver land use category (1, 2 or 3)	2

NOISE SOURCE PARAMETERS						
Parameter	Source 1		Source 2		Source 3	
Source Num.	Electric Loco.	1	Comm. Rail Cars	3		0
Dist. to receiver	distance (ft)	30	distance (ft)	30		
Daytime Hours	speed (mph)	35	speed (mph)	35		
(7 AM - 10 PM)	trains/hour	3	trains/hour	3		
	locos/train	1	cars/train	8		
Nighttime Hours	speed (mph)	35	speed (mph)	35		
(10 PM - 7 AM)	trains/hour	1	trains/hour	1		
	locos/train	1	cars/train	8		
Jointed Track?	Y/N	N	Y/N	N		
Embedded Track?	Y/N	N	Y/N	N		
Aerial Structure?	Y/N	N	Y/N	N		
Barrier Present?	Y/N	N	Y/N	N		
Intervening Rows						
of Buildings	number	Ö	number	Ö		

SOURCE REFERENC	E LIST
Source	Number
Electric Loco.	1
Diesel Loco.	2
Comm. Rail Cars	2 3 4
RRT/LRT	
AGT, Steel Wheel	5 6 7 8 9
AGT, Rubber Tire	6
Monorail	7
Maglev	8
Automobiles	9
City Buses	10
Commuter Buses	11
Rail Yard or Shop	12
Layover Tracks	13
Bus Storage Yard	14
Bus Op. Facility	15
Bus Transit Center	16
Parking Garage	17
Park & Ride Lot	18

Federal Transit Adminstration
General Transit Noise Assessment
Case: Warren Street

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RESULTS Noise Source All Sources Source 1 Source 2 Source 3

Ldn (dB)	Leq - daytime (dB)	Leq - nighttime (dB)
61	59	54
59	56	52
57	55	50

Enter noise receiver land use category below.

LAND USE CATEGORY	
Noise receiver land use category (1, 2 or 3)	2

NOISE SOURCE PARAMETERS						
Parameter	Source 1		Source 2		Source 3	
Source Num.	Electric Loco.	1	Comm. Rail Cars	3		0
Dist. to receiver	distance (ft)	55	distance (ft)	60		
Daytime Hours	speed (mph)	30	speed (mph)	30		
(7 AM - 10 PM)	trains/hour	3	trains/hour	3		
	locos/train	1	cars/train	8		
Nighttime Hours	speed (mph)	30	speed (mph)	30		
(10 PM - 7 AM)	trains/hour	1	trains/hour	1		
	locos/train	1	cars/train	8		
Jointed Track?	Y/N	N	Y/N	N		
Embedded Track?	Y/N	N	Y/N	N		
Aerial Structure?	Y/N	N	Y/N	N		
Barrier Present?	Y/N	N	Y/N	N		
Intervening Rows						
of Buildings	number	Ö	number	0		

SOURCE REFERENC	E LIST
Source	Number
Electric Loco.	1
Diesel Loco.	2
Comm. Rail Cars	3
RRT/LRT	4
AGT, Steel Wheel	2 3 4 5 6 7 8 9
AGT, Rubber Tire	6
Monorail	7
Maglev	8
Automobiles	9
City Buses	10
Commuter Buses	11
Rail Yard or Shop	12
Layover Tracks	13
Bus Storage Yard	14
Bus Op. Facility	15
Bus Transit Center	16
Parking Garage	17
Park & Ride Lot	18

Federal Transit Adminstration
General Transit Noise Assessment
Case: West Britanna Street

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RESULTS Noise Source All Sources Source 1 Source 2 Source 3

Ldn (dB)	Leq - daytime (dB)	Leq - nighttime (dB)
61	59	54
59	56	52
58	55	50

Enter noise receiver land use category below.

LAND USE CATEGORY	
Noise receiver land use category (1, 2 or 3)	2

NOISE SOURCE PARAMETERS						
Parameter	Source 1		Source 2		Source 3	
Source Num.	Electric Loco.	1	Comm. Rail Cars	3		0
Dist. to receiver	distance (ft)	55	distance (ft)	56		
Daytime Hours	speed (mph)	30	speed (mph)	30		
(7 AM - 10 PM)	trains/hour	3	trains/hour	3		
	locos/train	1	cars/train	8		
Nighttime Hours	speed (mph)	30	speed (mph)	30		
(10 PM - 7 AM)	trains/hour	1	trains/hour	1		
	locos/train	1	cars/train	8		
Jointed Track?	Y/N	N	Y/N	N		
Embedded Track?	Y/N	N	Y/N	N		
Aerial Structure?	Y/N	N	Y/N	N		
Barrier Present?	Y/N	N	Y/N	N		
Intervening Rows of Buildings	number		number	Ö		_

SOURCE REFERENC	E LIST
Source	Number
Electric Loco.	1
Diesel Loco.	2
Comm. Rail Cars	2 3
RRT/LRT	4
AGT, Steel Wheel	5
AGT, Rubber Tire	6
Monorail	6 7 8
Maglev	8
Automobiles	9
City Buses	10
Commuter Buses	11
Rail Yard or Shop	12
Layover Tracks	13
Bus Storage Yard	14
Bus Op. Facility	15
Bus Transit Center	16
Parking Garage	17
Park & Ride Lot	18

Federal Transit Adminstration
General Transit Noise Assessment
Case: Edwards Avenue

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RESULTS Noise Source All Sources Source 1 Source 2 Source 3

Ldn (dB)	Leq - daytime (dB)	Leq - nighttime (dB)
59	56	51
54	52	47
57	54	49

Enter noise receiver land use category below.

LAND USE CATEGORY	
Noise receiver land use category (1, 2 or 3)	2

NOISE SOURCE PARAMETERS						
Parameter	Source 1		Source 2		Source 3	
Source Num.	Electric Loco.	1	Comm. Rail Cars	3		0
Dist. to receiver	distance (ft)	200	distance (ft)	200		
Daytime Hours	speed (mph)	70	speed (mph)	70		
(7 AM - 10 PM)	trains/hour	3	trains/hour	3		
	locos/train	1	cars/train	8		
Nighttime Hours	speed (mph)	70	speed (mph)	70		
(10 PM - 7 AM)	trains/hour	1	trains/hour	1		
	locos/train	1	cars/train	8		
Jointed Track?	Y/N	N	Y/N	N		
Embedded Track?	Y/N	N	Y/N	N		
Aerial Structure?	Y/N	N	Y/N	N		
Barrier Present?	Y/N	N	Y/N	N		
Intervening Rows		10101010101010101010101		1001010101010101010101		
of Buildings	number	0	number	0		

SOURCE REFERENC	E LIST
Source	Number
Electric Loco.	1
Diesel Loco.	2
Comm. Rail Cars	2 3 4
RRT/LRT	
AGT, Steel Wheel	5 6 7 8 9
AGT, Rubber Tire	6
Monorail	7
Maglev	8
Automobiles	9
City Buses	10
Commuter Buses	11
Rail Yard or Shop	12
Layover Tracks	13
Bus Storage Yard	14
Bus Op. Facility	15
Bus Transit Center	16
Parking Garage	17
Park & Ride Lot	18

Federal Transit Adminstration
General Transit Noise Assessment
Case: Danforth Street

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RESULTS Noise Source All Sources Source 1 Source 2 Source 3

Ldn (dB)	Leq - daytime (dB)	Leq - nighttime (dB)
61	58	53
56	53	49
59	56	51

Enter noise receiver land use category below.

LAND USE CATEGORY	
Noise receiver land use category (1, 2 or 3)	2

NOISE SOURCE PA	NOISE SOURCE PARAMETERS				
Parameter	Source 1		Source 2		Source 3
Source Num.	Electric Loco.	1	Comm. Rail Cars	3	0
Dist. to receiver	distance (ft)	150	distance (ft)	150	
Daytime Hours	speed (mph)	70	speed (mph)	70	
(7 AM - 10 PM)	trains/hour	3	trains/hour	3	
	locos/train	1	cars/train	8	
Nighttime Hours	speed (mph)	70	speed (mph)	70	
(10 PM - 7 AM)	trains/hour	1	trains/hour	1	
	locos/train	1	cars/train	8	
Jointed Track?	Y/N	N	Y/N	N	
Embedded Track?	Y/N	N	Y/N	N	
Aerial Structure?	Y/N	N	Y/N	N	
Barrier Present?	Y/N	N	Y/N	N	
Intervening Rows					
of Buildings	number	0	number	0	

SOURCE REFERENC	E LIST
Source	Number
Electric Loco.	1
Diesel Loco.	2
Comm. Rail Cars	2 3
RRT/LRT	4
AGT, Steel Wheel	5
AGT, Rubber Tire	6
Monorail	6 7 8
Maglev	8
Automobiles	9
City Buses	10
Commuter Buses	11
Rail Yard or Shop	12
Layover Tracks	13
Bus Storage Yard	14
Bus Op. Facility	15
Bus Transit Center	16
Parking Garage	17
Park & Ride Lot	18

Federal Transit Adminstration
General Transit Noise Assessment
Case: Horton Street

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RESULTS Noise Source All Sources Source 1 Source 2 Source 3

Ldn (dB)	Leq - daytime (dB)	Leq - nighttime (dB)
59	56	51
54	52	47
57	54	49

Enter noise receiver land use category below.

LAND USE CATEGORY	
Noise receiver land use category (1, 2 or 3)	2

NOISE SOURCE PA	NOISE SOURCE PARAMETERS					
Parameter	Source 1		Source 2		Source 3	
Source Num.	Electric Loco.	1	Comm. Rail Cars	3		Ö
Dist. to receiver	distance (ft)	200	distance (ft)	200		
Daytime Hours	speed (mph)	70	speed (mph)	70		
(7 AM - 10 PM)	trains/hour	3	trains/hour	3		
	locos/train	1	cars/train	8		
Nighttime Hours	speed (mph)	70	speed (mph)	70		
(10 PM - 7 AM)	trains/hour	1	trains/hour	1		
	locos/train	1	cars/train	8		
Jointed Track?	Y/N	N	Y/N	N		
Embedded Track?	Y/N	N	Y/N	N		
Aerial Structure?	Y/N	N	Y/N	N		
Barrier Present?	Y/N	N	Y/N	N		
Intervening Rows						
of Buildings	number	0	number	0		

SOURCE REFERENCE LIST				
Source	Number			
Electric Loco.	1			
Diesel Loco.	2			
Comm. Rail Cars	2 3			
RRT/LRT	4			
AGT, Steel Wheel	5			
AGT, Rubber Tire	6			
Monorail	6 7 8			
Maglev	8			
Automobiles	9			
City Buses	10			
Commuter Buses	11			
Rail Yard or Shop	12			
Layover Tracks	13			
Bus Storage Yard	14			
Bus Op. Facility	15			
Bus Transit Center	16			
Parking Garage	17			
Park & Ride Lot	18			

Federal Transit Adminstration
General Transit Noise Assessment
Case: Tremont Street

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RESULTS Noise Source All Sources Source 1 Source 2 Source 3

Ldn (dB)	Leq - daytime (dB)	Leq - nighttime (dB)
66	63	58
61	58	53
64	61	56

Enter noise receiver land use category below.

LAND USE CATEGORY	
Noise receiver land use category (1, 2 or 3)	2

NOISE SOURCE PARAMETERS						
Parameter	Source 1		Source 2		Source 3	
Source Num.	Electric Loco.	1	Comm. Rail Cars	3		0
Dist. to receiver	distance (ft)	72	distance (ft)	70		
Daytime Hours	speed (mph)	70	speed (mph)	70		
(7 AM - 10 PM)	trains/hour	3	trains/hour	3		
	locos/train	1	cars/train	8		
Nighttime Hours	speed (mph)	70	speed (mph)	70		
(10 PM - 7 AM)	trains/hour	1	trains/hour	1		
	locos/train	1	cars/train	8		
Jointed Track?	Y/N	N	Y/N	N		
Embedded Track?	Y/N	N	Y/N	N		
Aerial Structure?	Y/N	N	Y/N	N		
Barrier Present?	Y/N	N	Y/N	N		
Intervening Rows						
of Buildings	number	Ö	number	Ö		

SOURCE REFERENCE LIST				
Source	Number			
Electric Loco.	1			
Diesel Loco.	2			
Comm. Rail Cars	2 3			
RRT/LRT	4			
AGT, Steel Wheel	5			
AGT, Rubber Tire	6			
Monorail	6 7 8			
Maglev	8			
Automobiles	9			
City Buses	10			
Commuter Buses	11			
Rail Yard or Shop	12			
Layover Tracks	13			
Bus Storage Yard	14			
Bus Op. Facility	15			
Bus Transit Center	16			
Parking Garage	17			
Park & Ride Lot	18			

Federal Transit Adminstration
General Transit Noise Assessment
Case: Winthrop Street

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RESULTS Noise Source All Sources Source 1 Source 2 Source 3

Ldn (dB)	Leq - daytime (dB)	Leq - nighttime (dB)
66	63	58
62	59	54
64	61	56

Enter noise receiver land use category below.

LAND USE CATEGORY	
Noise receiver land use category (1, 2 or 3)	2

NOISE SOURCE PARAMETERS						
Parameter	Source 1		Source 2		Source 3	
Source Num.	Electric Loco.	1	Comm. Rail Cars	3		0
Dist. to receiver	distance (ft)	50	distance (ft)	45		
Daytime Hours	speed (mph)	50	speed (mph)	50		
(7 AM - 10 PM)	trains/hour	3	trains/hour	3		
	locos/train	1	cars/train	8		
Nighttime Hours	speed (mph)	50	speed (mph)	50		
(10 PM - 7 AM)	trains/hour	1	trains/hour	1		
	locos/train	1	cars/train	8		
Jointed Track?	Y/N	N	Y/N	N		
Embedded Track?	Y/N	N	Y/N	N		
Aerial Structure?	Y/N	N	Y/N	N		
Barrier Present?	Y/N	N	Y/N	N		
Intervening Rows						
of Buildings	number	O	number	0		

SOURCE REFERENCE LIST				
Source	Number			
Electric Loco.	1			
Diesel Loco.	2			
Comm. Rail Cars	2 3			
RRT/LRT	4			
AGT, Steel Wheel	5			
AGT, Rubber Tire	6			
Monorail	6 7 8			
Maglev	8			
Automobiles	9			
City Buses	10			
Commuter Buses	11			
Rail Yard or Shop	12			
Layover Tracks	13			
Bus Storage Yard	14			
Bus Op. Facility	15			
Bus Transit Center	16			
Parking Garage	17			
Park & Ride Lot	18			

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General Transit Noise Assessment
Case: Webster Street

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RESULTS Noise Source All Sources Source 1 Source 2 Source 3

Ldn (dB)	Leq - daytime (dB)	Leq - nighttime (dB)
62	60	55
59	56	51
60	57	52

Enter noise receiver land use category below.

LAND USE CATEGORY	
Noise receiver land use category (1, 2 or 3)	2

NOISE SOURCE PARAMETERS						
Parameter	Source 1		Source 2		Source 3	
Source Num.	Electric Loco.	1	Comm. Rail Cars	3		0
Dist. to receiver	distance (ft)	80	distance (ft)	80		
Daytime Hours	speed (mph)	50	speed (mph)	50		
(7 AM - 10 PM)	trains/hour	3	trains/hour	3		
	locos/train	1	cars/train	8		
Nighttime Hours	speed (mph)	50	speed (mph)	50		
(10 PM - 7 AM)	trains/hour	1	trains/hour	1		
	locos/train	1	cars/train	8		
Jointed Track?	Y/N	N	Y/N	N		
Embedded Track?	Y/N	N	Y/N	N		
Aerial Structure?	Y/N	N	Y/N	N		
Barrier Present?	Y/N	N	Y/N	N		
Intervening Rows						·
of Buildings	number	0	number	0		

SOURCE REFERENCE LIST			
Source	Number		
Electric Loco.	1		
Diesel Loco.	2		
Comm. Rail Cars	2 3		
RRT/LRT	4		
AGT, Steel Wheel	5		
AGT, Rubber Tire	6		
Monorail	6 7 8		
Maglev	8		
Automobiles	9		
City Buses	10		
Commuter Buses	11		
Rail Yard or Shop	12		
Layover Tracks	13		
Bus Storage Yard	14		
Bus Op. Facility	15		
Bus Transit Center	16		
Parking Garage	17		
Park & Ride Lot	18		

Federal Transit Adminstration
General Transit Noise Assessment
Case: Weir Street

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RESULTS Noise Source All Sources Source 1 Source 2 Source 3

Ldn (dB)	Leq - daytime (dB)	Leq - nighttime (dB)
66	63	58
62	59	55
63	60	55

Enter noise receiver land use category below.

LAND USE CATEGORY	
Noise receiver land use category (1, 2 or 3)	2

NOISE SOURCE PARAMETERS						
Parameter	Source 1		Source 2		Source 3	
Source Num.	Electric Loco.	1	Comm. Rail Cars	3		0
Dist. to receiver	distance (ft)	48	distance (ft)	50		
Daytime Hours	speed (mph)	50	speed (mph)	50		
(7 AM - 10 PM)	trains/hour	3	trains/hour	3		
	locos/train	1	cars/train	8		
Nighttime Hours	speed (mph)	50	speed (mph)	50		
(10 PM - 7 AM)	trains/hour	1	trains/hour	1		
	locos/train	1	cars/train	8		
Jointed Track?	Y/N	N	Y/N	N		
Embedded Track?	Y/N	N	Y/N	N		
Aerial Structure?	Y/N	N	Y/N	N		
Barrier Present?	Y/N	N	Y/N	N		
Intervening Rows						
of Buildings	number	0	number	0		

SOURCE REFERENCE LIST			
Source	Number		
Electric Loco.	1		
Diesel Loco.	2		
Comm. Rail Cars	3		
RRT/LRT	4		
AGT, Steel Wheel	5		
AGT, Rubber Tire	6		
Monorail	7 8		
Maglev	8		
Automobiles	9		
City Buses	10		
Commuter Buses	11		
Rail Yard or Shop	12		
Layover Tracks	13		
Bus Storage Yard	14		
Bus Op. Facility	15		
Bus Transit Center	16		
Parking Garage	17		
Park & Ride Lot	18		