

APPENDIX F-3
CEQR Operational Noise Analysis
Calculation Spreadsheets
July 2004

EXISTING AMBIENT (dBA)

Receptor Site	Location	Weekend		Weekday	
		Day	Night	Day	Night
	Roof (46 East 50th Street)	63.2	NA	64.5	NA
	Roof (46 East 50th Street) with existing HVAC operating	NA	NA	71.6	NA
	Sidewalk Adjacent (north)	NA	NA	74.3	NA

Note:

Lowest ambient listed.

RESULTS SUMMARY - 50th Street Facility with Through Drive - (Daytime Operation, Off-Peak Load)

Receptor Site	Location	Existing Ambient (dBA)	Equipment Total Lp (dBA)	Build Leq (dBA)	Change
R6	COLGATE-PALMOLIVE BUILDING TOWARD EAST, Windows 1-story above cooling tower (Daytime Operation, Off-Peak Load)	63.2	54.3	63.7	0.5
R7	ITT AMERICAS BUILDING TOWARD WEST, Windows 1-story above cooling tower (Daytime Operation, Off-Peak Load)	63.2	51.3	63.5	0.3
R8	COLGATE-PALMOLIVE BUILDING TOWARD EAST, Windows 2-stories above cooling tower (Daytime Operation, Off-Peak Load)	63.2	47.8	63.3	0.1
R9	ITT AMERICAS BUILDING TOWARD WEST, Windows 2-stories above cooling tower (Daytime Operation, Off-Peak Load)	63.2	47.8	63.3	0.1

Note:

Above Criteria is for informational purposes since MTA does not have to comply with CEQR requirements.

AMBIENT NOISE QUALITY ZONE CRITERIA (ANQZ)

Receptor Site	Location	Time	Existing Ambient (dBA)	Equipment Total Lp (dBA)	Build Leq (dBA)	ANQZ	Compliance
R6	COLGATE-PALMOLIVE BUILDING TOWARD EAST, Windows 1-story above cooling tower (Daytime Operation, Off-Peak Load)	Day	63.2	54.3	63.7	65	Meets
		Night	NA	NA	NA	NA	NA
R7	ITT AMERICAS BUILDING TOWARD WEST, Windows 1-story above cooling tower (Daytime Operation, Off-Peak Load)	Day	63.2	51.3	63.5	65	Meets
		Night	NA	NA	NA	NA	NA
R8	COLGATE-PALMOLIVE BUILDING TOWARD EAST, Windows 2-stories above cooling tower (Daytime Operation, Off-Peak Load)	Day	63.2	47.8	63.3	65	Meets
		Night	NA	NA	NA	NA	NA
R9	ITT AMERICAS BUILDING TOWARD WEST, Windows 2-stories above cooling tower (Daytime Operation, Off-Peak Load)	Day	63.2	47.8	63.3	65	Meets
		Night	NA	NA	NA	NA	NA

Note:

Used lowest ambient (weekday or weekend whichever lower).

EXISTING AMBIENT (dBA)

Receptor Site	Location	Weekend		Weekday	
		Day	Night	Day	Night
	Roof (46 East 50th Street)	63.2	NA	64.5	NA
	Roof (46 East 50th Street) with existing HVAC operating	NA	NA	71.6	NA
	Sidewalk Adjacent (north)	NA	NA	74.3	NA

Note:

Lowest ambient listed.

RESULTS SUMMARY - 50th Street Facility with Through Drive - (Daytime Operation, Off-Peak Load)

Receptor Site	Location	Existing Ambient (dBA)	Equipment Total Lp (dBA)	Build Leq (dBA)	Change
R1	Colgate-Palmolive Building (east)	63.2	49.6	63.4	0.2
R2	ITT Americas Building (west)	63.2	46.7	63.3	0.1
R3	Sidewalk Adjacent (north)	74.3	40.2	74.3	0.0
R4	Sidewalk Across 50th Street (north)	74.3	38.9	74.3	0.0
R5	Hotel Elevated Receptor Across 50th Street (north)	63.2	42.9	63.2	0.0

Note:

Above Criteria is for informational purposes since MTA does not have to comply with CEQR requirements.

AMBIENT NOISE QUALITY ZONE CRITERIA (ANQZ)

Receptor Site	Location	Time	Existing Ambient (dBA)	Equipment Total Lp (dBA)	Build Leq (dBA)	ANQZ	Compliance
R1	Colgate-Palmolive Building (east)	Day	63.2	49.6	63.4	65	Meets
		Night	NA	NA	NA	NA	NA
R2	ITT Americas Building (west)	Day	63.2	46.7	63.3	65	Meets
		Night	NA	NA	NA	NA	NA
R3	Sidewalk Adjacent (north)	Day	74.3	40.2	74.3	65	Meets
		Night	NA	NA	NA	NA	NA
R4	Sidewalk Across 50th Street (north)	Day	74.3	38.9	74.3	65	Meets
		Night	NA	NA	NA	NA	NA
R5	Hotel Elevated Receptor Across 50th Street (north)	Day	63.2	42.9	63.2	65	Meets
		Night	NA	NA	NA	NA	NA

Note:

Used lowest ambient (weekday or weekend whichever lower).

EXISTING AMBIENT (dBA)

Receptor Site	Location	Weekend		Weekday	
		Day (7AM-10PM)	Night (10PM-7AM)	Day (7AM-10PM)	Night (10PM-7AM)
	Roof (46 East 50th Street)	63.2	NA	64.5	NA
	Roof (46 East 50th Street) with existing HVAC operating	NA	NA	71.6	NA
	Sidewalk Adjacent (north)	NA	NA	74.3	NA

Note:
Lowest ambient listed.

RESULTS SUMMARY - 50th Street Facility with Through Drive - (Daytime Operation, Peak Load)

Receptor Site	Location	Existing Ambient (dBA)	Equipment Total Lp (dBA)	Build Leq (dBA)	Change
R1	Colgate-Palmolive Building (east)	63.2	51.3	63.5	0.3
R2	ITT Americas Building (west)	63.2	48.3	63.3	0.1
R3	Sidewalk Adjacent (north)	74.3	41.6	74.3	0.0
R4	Sidewalk Across 50th Street (north)	74.3	40.3	74.3	0.0
R5	Hotel Elevated Receptor Across 50th Street (north)	63.2	44.5	63.3	0.1

Note:
Above Criteria is for informational purposes since MTA does not have to comply with CEQR requirements.

AMBIENT NOISE QUALITY ZONE CRITERIA (ANQZ)

Receptor Site	Location	Time	Existing Ambient (dBA)	Equipment Total Lp (dBA)	Build Leq (dBA)	ANQZ	Compliance
R1	Colgate-Palmolive Building (east)	Day	63.2	51.3	63.5	65	Meets
		Night	NA	NA	NA	NA	NA
R2	ITT Americas Building (west)	Day	63.2	48.3	63.3	65	Meets
		Night	NA	NA	NA	NA	NA
R3	Sidewalk Adjacent (north)	Day	74.3	41.6	74.3	65	Meets
		Night	NA	NA	NA	NA	NA
R4	Sidewalk Across 50th Street (north)	Day	74.3	40.3	74.3	65	Meets
		Night	NA	NA	NA	NA	NA
R5	Hotel Elevated Receptor Across 50th Street (north)	Day	63.2	44.5	63.3	65	Meets
		Night	NA	NA	NA	NA	NA

Note:
Used lowest ambient (weekday or weekend whichever lower).

EXISTING AMBIENT (dBA)

Receptor Site	Location	Weekend		Weekday	
		Day (7AM-10PM)	Night (10PM-7AM)	Day (7AM-10PM)	Night (10PM-7AM)
	Roof (46 East 50th Street)	63.2	NA	64.5	NA
	Roof (46 East 50th Street) with existing HVAC operating	NA	NA	71.6	NA
	Sidewalk Adjacent (north)	NA	NA	74.3	NA

Note:

Lowest ambient listed.

RESULTS SUMMARY - 50th Street Facility with Through Drive - (Daytime Operation, Peak Load)

Receptor Site	Location	Existing Ambient (dBA)	Equipment Total Lp (dBA)	Build Leq (dBA)	Change
R6	COLGATE-PALMOLIVE BUILDING TOWARD EAST, Windows 1-story above cooling tower (Daytime Operation, Peak Load)	63.2	56.0	64.0	0.8
R7	ITT AMERICAS BUILDING TOWARD WEST, Windows 1-story above cooling tower (Daytime Operation, Peak Load)	63.2	52.9	63.6	0.4
R8	COLGATE-PALMOLIVE BUILDING TOWARD EAST, Windows 2-stories above cooling tower (Daytime Operation, Peak Load)	63.2	49.5	63.4	0.2
R9	ITT AMERICAS BUILDING TOWARD WEST, Windows 2-stories above cooling tower (Daytime Operation, Peak Load)	63.2	46.4	63.3	0.1

Note:

Above Criteria is for informational purposes since MTA does not have to comply with CEQR requirements.

AMBIENT NOISE QUALITY ZONE CRITERIA (ANQZ)

Receptor Site	Location	Time	Existing Ambient (dBA)	Equipment Total Lp (dBA)	Build Leq (dBA)	ANQZ	Compliance
R6	COLGATE-PALMOLIVE BUILDING TOWARD EAST, Windows 1-story above cooling tower (Daytime Operation, Peak Load)	Day	63.2	56.0	64.0	65	Meets
		Night	NA	NA	NA	NA	NA
R7	ITT AMERICAS BUILDING TOWARD WEST, Windows 1-story above cooling tower (Daytime Operation, Peak Load)	Day	63.2	52.9	63.6	65	Meets
		Night	NA	NA	NA	NA	NA
R8	COLGATE-PALMOLIVE BUILDING TOWARD EAST, Windows 2-stories above cooling tower (Daytime Operation, Peak Load)	Day	63.2	49.5	63.4	65	Meets
		Night	NA	NA	NA	NA	NA
R9	ITT AMERICAS BUILDING TOWARD WEST, Windows 2-stories above cooling tower (Daytime Operation, Peak Load)	Day	63.2	46.4	63.3	65	Meets
		Night	NA	NA	NA	NA	NA

Note:

Used lowest ambient (weekday or weekend whichever lower).

EXISTING AMBIENT (dBA)

Receptor Site	Location	Weekend		Weekday	
		Day	Night	Day	Night
	Roof (46 East 50th Street)	NA	NA	64.5	NA
	Roof (46 East 50th Street) with existing HVAC operating	NA	NA	71.6	NA
	Sidewalk Adjacent (north)	NA	NA	74.3	NA

Note:

Lowest ambient listed.

Only test during weekday business hours (9AM-5PM).

RESULTS SUMMARY - 50th Street Facility with Through Drive - (Daytime Operation, Testing Mode)

Receptor Site	Location	Existing Ambient (dBA)	Equipment Total Lp (dBA)	Build Leq (dBA)	Change
R1	Colgate-Palmolive Building (east)	64.5	57.9	65.4	0.9
R2	ITT Americas Building (west)	64.5	58.4	65.5	1.0
R3	Sidewalk Adjacent (north)	74.3	52.6	74.3	0.0
R4	Sidewalk Across 50th Street (north)	74.3	52.3	74.3	0.0
R5	Hotel Elevated Receptor Across 50th Street (north)	64.5	54.8	64.9	0.4

Note:

Above Criteria is for informational purposes since MTA does not have to comply with CEQR requirements.

AMBIENT NOISE QUALITY ZONE CRITERIA (ANQZ)

Receptor Site	Location	Time	Existing Ambient (dBA)	Equipment Total Lp (dBA)	Build Leq (dBA)	ANQZ	Compliance
R1	Colgate-Palmolive Building (east)	Day	64.5	57.9	65.4	65	Meets
		Night	NA	NA	NA	NA	NA
R2	ITT Americas Building (west)	Day	64.5	58.4	65.5	65	Meets
		Night	NA	NA	NA	NA	NA
R3	Sidewalk Adjacent (north)	Day	74.3	52.6	74.3	65	Meets
		Night	NA	NA	NA	NA	NA
R4	Sidewalk Across 50th Street (north)	Day	74.3	52.3	74.3	65	Meets
		Night	NA	NA	NA	NA	NA
R5	Hotel Elevated Receptor Across 50th Street (north)	Day	64.5	54.8	64.9	65	Meets
		Night	NA	NA	NA	NA	NA

Note:

Used lowest weekday ambient.

EXISTING AMBIENT (dBA)

Receptor Site	Location	Weekend		Weekday	
		Day	Night	Day	Night
	Roof (46 East 50th Street)	NA	NA	64.5	NA
	Roof (46 East 50th Street) with existing HVAC operating	NA	NA	71.6	NA
	Sidewalk Adjacent (north)	NA	NA	74.3	NA

Note:

Lowest ambient listed.

Only test during weekday business hours (9AM-5PM).

RESULTS SUMMARY - 50th Street Facility with Through Drive - (Daytime Operation, Testing Mode)

Receptor Site	Location	Existing Ambient (dBA)	Equipment Total Lp (dBA)	Build Leq (dBA)	Change
R6	COLGATE-PALMOLIVE BUILDING TOWARD EAST, Windows 1-story above cooling tower (Daytime Operation, Testing Mode)	64.5	59.2	65.6	1.1
R7	ITT AMERICAS BUILDING TOWARD WEST, Windows 1-story above cooling tower (Daytime Operation, Testing Mode)	64.5	58.8	65.5	1.0
R8	COLGATE-PALMOLIVE BUILDING TOWARD EAST, Windows 2-stories above cooling tower (Daytime Operation, Testing Mode)	64.5	56.7	65.2	0.7
R9	ITT AMERICAS BUILDING TOWARD WEST, Windows 2-stories above cooling tower (Daytime Operation, Testing Mode)	64.5	57.1	65.2	0.7

Note:

Above Criteria is for informational purposes since MTA does not have to comply with CEQR requirements.

AMBIENT NOISE QUALITY ZONE CRITERIA (ANQZ)

Receptor Site	Location	Time	Existing Ambient (dBA)	Equipment Total Lp (dBA)	Build Leq (dBA)	ANQZ	Compliance
R6	COLGATE-PALMOLIVE BUILDING TOWARD EAST, Windows 1-story above cooling tower (Daytime Operation, Testing Mode)	Day	64.5	59.2	65.6	65	Meets
		Night	NA	NA	NA	NA	NA
R7	ITT AMERICAS BUILDING TOWARD WEST, Windows 1-story above cooling tower (Daytime Operation, Testing Mode)	Day	64.5	58.8	65.5	65	Meets
		Night	NA	NA	NA	NA	NA
R8	COLGATE-PALMOLIVE BUILDING TOWARD EAST, Windows 2-stories above cooling tower (Daytime Operation, Testing Mode)	Day	64.5	56.7	65.2	65	Meets
		Night	NA	NA	NA	NA	NA
R9	ITT AMERICAS BUILDING TOWARD WEST, Windows 2-stories above cooling tower (Daytime Operation, Testing Mode)	Day	64.5	57.1	65.2	65	Meets
		Night	NA	NA	NA	NA	NA

Note:

Used lowest weekday ambient.

EXISTING AMBIENT (dBA)

Receptor Site	Location	Weekend		Weekday	
		Day	Night	Day	Night
	Roof (46 East 50th Street)	NA	63.5	NA	63.0
	Roof (46 East 50th Street) with existing HVAC operating	NA	NA	NA	NA
	Sidewalk Adjacent (north)	NA	NA	NA	NA

Note:

Lowest ambient listed.

Nighttime operation only.

RESULTS SUMMARY - 50th Street Facility with Through Drive - (Nighttime Operation, Off-Peak Load)

Receptor Site	Location	Existing Ambient (dBA)	Equipment Total Lp (dBA)	Build Leq (dBA)	Change
R6	COLGATE-PALMOLIVE BUILDING TOWARD EAST, Windows 1-story above cooling tower (Nighttime Operation, Off-Peak Load)	63.0	51.2	63.3	0.3
R7	ITT AMERICAS BUILDING TOWARD WEST, Windows 1-story above cooling tower (Nighttime Operation, Off-Peak Load)	63.0	48.3	63.1	0.1
R8	COLGATE-PALMOLIVE BUILDING TOWARD EAST, Windows 2-stories above cooling tower (Nighttime Operation, Off-Peak Load)	63.0	44.7	63.1	0.1
R9	ITT AMERICAS BUILDING TOWARD WEST, Windows 2-stories above cooling tower (Nighttime Operation, Off-Peak Load)	63.0	41.8	63.0	0.0

Note:

Above Criteria is for informational purposes since MTA does not have to comply with CEQR requirements.

Existing ambient at R3 and R4 not available. Used rooftop existing ambient levels.

AMBIENT NOISE QUALITY ZONE CRITERIA (ANQZ)

Receptor Site	Location	Time	Existing Ambient (dBA)	Equipment Total Lp (dBA)	Build Leq (dBA)	ANQZ	Compliance
R6	COLGATE-PALMOLIVE BUILDING TOWARD EAST, Windows 1-story above cooling tower (Nighttime Operation, Off-Peak Load)	Day	NA	NA	NA	NA	NA
		Night	63.0	51.2	63.3	55	Meets
R7	ITT AMERICAS BUILDING TOWARD WEST, Windows 1-story above cooling tower (Nighttime Operation, Off-Peak Load)	Day	NA	NA	NA	NA	NA
		Night	63.0	48.3	63.1	55	Meets
R8	COLGATE-PALMOLIVE BUILDING TOWARD EAST, Windows 2-stories above cooling tower (Nighttime Operation, Off-Peak Load)	Day	NA	NA	NA	NA	NA
		Night	63.0	44.7	63.1	55	Meets
R9	ITT AMERICAS BUILDING TOWARD WEST, Windows 2-stories above cooling tower (Nighttime Operation, Off-Peak Load)	Day	NA	NA	NA	NA	NA
		Night	63.0	41.8	63.0	55	Meets

Note:

Sidewalk Existing Ambient not available. Used rooftop ambient levels.

Used lowest ambient (weekday or weekend whichever lower).

EXISTING AMBIENT (dBA)

Receptor Site	Location	Weekend		Weekday	
		Day	Night	Day	Night
	Roof (46 East 50th Street)	NA	63.5	NA	63.0
	Roof (46 East 50th Street) with existing HVAC operating	NA	NA	NA	NA
	Sidewalk Adjacent (north)	NA	NA	NA	NA

Note:

Lowest ambient listed.

Nighttime operation only.

RESULTS SUMMARY - 50th Street Facility with Through Drive - (Nighttime Operation, Off-Peak Load)

Receptor Site	Location	Existing Ambient (dBA)	Equipment Total Lp (dBA)	Build Leq (dBA)	Change
R1	Colgate-Palmolive Building (east)	63.0	46.6	63.1	0.1
R2	ITT Americas Building (west)	63.0	43.7	63.1	0.1
R3	Sidewalk Adjacent (north)	63.0	36.5	63.0	0.0
R4	Sidewalk Across 50th Street (north)	63.0	35.4	63.0	0.0
R5	Hotel Elevated Receptor Across 50th Street (north)	63.0	39.9	63.0	0.0

Note:

Above Criteria is for informational purposes since MTA does not have to comply with CEQR requirements.

Existing ambient at R3 and R4 not available. Used rooftop existing ambient levels.

AMBIENT NOISE QUALITY ZONE CRITERIA (ANQZ)

Receptor Site	Location	Time	Existing Ambient (dBA)	Equipment Total Lp (dBA)	Build Leq (dBA)	ANQZ	Compliance
R1	Colgate-Palmolive Building (east)	Day	NA	NA	NA	NA	NA
		Night	63.0	46.6	63.1	55	Meets
R2	ITT Americas Building (west)	Day	NA	NA	NA	NA	NA
		Night	63.0	43.7	63.1	55	Meets
R3	Sidewalk Adjacent (north)	Day	NA	NA	NA	NA	NA
		Night	63.0	36.5	63.0	55	Meets
R4	Sidewalk Across 50th Street (north)	Day	NA	NA	NA	NA	NA
		Night	63.0	35.4	63.0	55	Meets
R5	Hotel Elevated Receptor Across 50th Street (north)	Day	NA	NA	NA	NA	NA
		Night	63.0	39.9	63.0	55	Meets

Note:

Sidewalk Existing Ambient not available. Used rooftop ambient levels.

Used lowest ambient (weekday or weekend whichever lower).

EXISTING AMBIENT (dBA)

Receptor Site	Location	Weekend		Weekday	
		Day	Night	Day	Night
	Roof (46 East 50th Street)	63.2	NA	64.5	NA
	Roof (46 East 50th Street) with existing HVAC operating	NA	NA	71.6	NA
	Sidewalk Adjacent (north)	NA	NA	74.3	NA

Note:

Lowest ambient listed.

RESULTS SUMMARY - 50th Street Facility - Daytime Operation, Off-Peak Load

Receptor Site	Location	Existing Ambient (dBA)	Equipment Total Lp (dBA)	Build Leq (dBA)	Change
R6	COLGATE-PALMOLIVE BUILDING TOWARD EAST, Windows 1-story above cooling tower	63.2	54.2	63.7	0.5
R7	ITT AMERICAS BUILDING TOWARD WEST, Windows 1-story above cooling tower	63.2	51.2	63.5	0.3
R8	COLGATE-PALMOLIVE BUILDING TOWARD EAST, Windows 2-stories above cooling tower	63.2	47.9	63.3	0.1
R9	ITT AMERICAS BUILDING TOWARD WEST, Windows 2-stories above cooling tower	63.2	44.8	63.3	0.1

Note:

Above Criteria is for informational purposes since MTA does not have to comply with CEQR requirements.

AMBIENT NOISE QUALITY ZONE CRITERIA (ANQZ)

Receptor Site	Location	Time	Existing Ambient (dBA)	Equipment Total Lp (dBA)	Build Leq (dBA)	ANQZ	Compliance
R6	COLGATE-PALMOLIVE BUILDING TOWARD EAST, Windows 1-story above cooling tower	Day	63.2	54.2	63.7	65	Meets
		Night	NA	NA	NA	NA	NA
R7	ITT AMERICAS BUILDING TOWARD WEST, Windows 1-story above cooling tower	Day	63.2	51.2	63.5	65	Meets
		Night	NA	NA	NA	NA	NA
R8	COLGATE-PALMOLIVE BUILDING TOWARD EAST, Windows 2-stories above cooling tower	Day	63.2	47.9	63.3	65	Meets
		Night	NA	NA	NA	NA	NA
R9	ITT AMERICAS BUILDING TOWARD WEST, Windows 2-stories above cooling tower	Day	63.2	44.8	63.3	65	Meets
		Night	NA	NA	NA	NA	NA

Note:

Used lowest ambient (weekday or weekend whichever lower).

EXISTING AMBIENT (dBA)

Receptor Site	Location	Weekend		Weekday	
		Day	Night	Day	Night
	Roof (46 East 50th Street)	63.2	NA	64.5	NA
	Roof (46 East 50th Street) with existing HVAC operating	NA	NA	71.6	NA
	Sidewalk Adjacent (north)	NA	NA	74.3	NA

Note:

Lowest ambient listed.

RESULTS SUMMARY - 50th Street Facility - Daytime Operation, Off-Peak Load

Receptor Site	Location	Existing Ambient (dBA)	Equipment Total Lp (dBA)	Build Leq (dBA)	Change
R1	Colgate-Palmolive Building (east)	63.2	49.5	63.4	0.2
R2	ITT Americas Building (west)	63.2	46.6	63.3	0.1
R3	Sidewalk Adjacent (north)	74.3	40.6	74.3	0.0
R4	Sidewalk Across 50th Street (north)	74.3	39.1	74.3	0.0
R5	Hotel Elevated Receptor Across 50th Street (north)	63.2	43.0	63.2	0.0

Note:

Above Criteria is for informational purposes since MTA does not have to comply with CEQR requirements.

AMBIENT NOISE QUALITY ZONE CRITERIA (ANQZ)

Receptor Site	Location	Time	Existing Ambient (dBA)	Equipment Total Lp (dBA)	Build Leq (dBA)	ANQZ	Compliance
R1	Colgate-Palmolive Building (east)	Day	63.2	49.5	63.4	65	Meets
		Night	NA	NA	NA	NA	NA
R2	ITT Americas Building (west)	Day	63.2	46.6	63.3	65	Meets
		Night	NA	NA	NA	NA	NA
R3	Sidewalk Adjacent (north)	Day	74.3	40.6	74.3	65	Meets
		Night	NA	NA	NA	NA	NA
R4	Sidewalk Across 50th Street (north)	Day	74.3	39.1	74.3	65	Meets
		Night	NA	NA	NA	NA	NA
R5	Hotel Elevated Receptor Across 50th Street (north)	Day	63.2	43.0	63.2	65	Meets
		Night	NA	NA	NA	NA	NA

Note:

Used lowest ambient (weekday or weekend whichever lower).

EXISTING AMBIENT (dBA)

Receptor Site	Location	Weekend		Weekday	
		Day	Night	Day	Night
	Roof (46 East 50th Street)	63.2	NA	64.5	NA
	Roof (46 East 50th Street) with existing HVAC operating	NA	NA	71.6	NA
	Sidewalk Adjacent (north)	NA	NA	74.3	NA

Note:

Lowest ambient listed.

RESULTS SUMMARY - 50th Street Facility - Daytime Operation, Peak Load

Receptor Site	Location	Existing Ambient (dBA)	Equipment Total Lp (dBA)	Build Leq (dBA)	Change
R1	Colgate-Palmolive Building (east)	63.2	51.3	63.5	0.3
R2	ITT Americas Building (west)	63.2	48.4	63.3	0.1
R3	Sidewalk Adjacent (north)	74.3	41.7	74.3	0.0
R4	Sidewalk Across 50th Street (north)	74.3	40.3	74.3	0.0
R5	Hotel Elevated Receptor Across 50th Street (north)	63.2	44.7	63.3	0.1

Note:

Above Criteria is for informational purposes since MTA does not have to comply with CEQR requirements.

AMBIENT NOISE QUALITY ZONE CRITERIA (ANQZ)

Receptor Site	Location	Time	Existing Ambient (dBA)	Equipment Total Lp (dBA)	Build Leq (dBA)	ANQZ	Compliance
R1	Colgate-Palmolive Building (east)	Day	63.2	51.3	63.5	65	Meets
		Night	NA	NA	NA	NA	NA
R2	ITT Americas Building (west)	Day	63.2	48.4	63.3	65	Meets
		Night	NA	NA	NA	NA	NA
R3	Sidewalk Adjacent (north)	Day	74.3	41.7	74.3	65	Meets
		Night	NA	NA	NA	NA	NA
R4	Sidewalk Across 50th Street (north)	Day	74.3	40.3	74.3	65	Meets
		Night	NA	NA	NA	NA	NA
R5	Hotel Elevated Receptor Across 50th Street (north)	Day	63.2	44.7	63.3	65	Meets
		Night	NA	NA	NA	NA	NA

Note:

Used lowest ambient (weekday or weekend whichever lower).

EXISTING AMBIENT (dBA)

Receptor Site	Location	Weekend		Weekday	
		Day	Night	Day	Night
	Roof (46 East 50th Street)	63.2	NA	64.5	NA
	Roof (46 East 50th Street) with existing HVAC operating	NA	NA	71.6	NA
	Sidewalk Adjacent (north)	NA	NA	74.3	NA

Note:

Lowest ambient listed.

RESULTS SUMMARY - 50th Street Facility - Daytime Operation, Peak Load

Receptor Site	Location	Existing Ambient (dBA)	Equipment Total Lp (dBA)	Build Leq (dBA)	Change
R6	COLGATE-PALMOLIVE BUILDING TOWARD EAST, Windows 1-story above cooling tower	63.2	56.0	63.9	0.7
R7	ITT AMERICAS BUILDING TOWARD WEST, Windows 1-story above cooling tower	63.2	52.9	63.6	0.4
R8	COLGATE-PALMOLIVE BUILDING TOWARD EAST, Windows 2-stories above cooling tower	63.2	49.6	63.4	0.2
R9	ITT AMERICAS BUILDING TOWARD WEST, Windows 2-stories above cooling tower	63.2	46.5	63.3	0.1

Note:

Above Criteria is for informational purposes since MTA does not have to comply with CEQR requirements.

AMBIENT NOISE QUALITY ZONE CRITERIA (ANQZ)

Receptor Site	Location	Time	Existing Ambient (dBA)	Equipment Total Lp (dBA)	Build Leq (dBA)	ANQZ	Compliance
R6	COLGATE-PALMOLIVE BUILDING TOWARD EAST, Windows 1-story above cooling tower	Day	63.2	56.0	63.9	65	Meets
		Night	NA	NA	NA	NA	NA
R7	ITT AMERICAS BUILDING TOWARD WEST, Windows 1-story above cooling tower	Day	63.2	52.9	63.6	65	Meets
		Night	NA	NA	NA	NA	NA
R8	COLGATE-PALMOLIVE BUILDING TOWARD EAST, Windows 2-stories above cooling tower	Day	63.2	49.6	63.4	65	Meets
		Night	NA	NA	NA	NA	NA
R9	ITT AMERICAS BUILDING TOWARD WEST, Windows 2-stories above cooling tower	Day	63.2	46.5	63.3	65	Meets
		Night	NA	NA	NA	NA	NA

Note:

Used lowest ambient (weekday or weekend whichever lower).

EXISTING AMBIENT (dBA)

Receptor Site	Location	Weekend		Weekday	
		Day	Night	Day	Night
	Roof (46 East 50th Street)	NA	NA	64.5	NA
	Roof (46 East 50th Street) with existing HVAC operating	NA	NA	71.6	NA
	Sidewalk Adjacent (north)	NA	NA	74.3	NA

Note:

Lowest ambient listed.

Only test during weekday business hours (9AM-5PM).

RESULTS SUMMARY - 50th Street Facility - Daytime Operation, Testing Mode

Receptor Site	Location	Existing Ambient (dBA)	Equipment Total Lp (dBA)	Build Leq (dBA)	Change
R1	Colgate-Palmolive Building (east)	64.5	57.6	65.3	0.8
R2	ITT Americas Building (west)	64.5	58.0	65.4	0.9
R3	Sidewalk Adjacent (north)	74.3	53.0	74.3	0.0
R4	Sidewalk Across 50th Street (north)	74.3	51.2	74.3	0.0
R5	Hotel Elevated Receptor Across 50th Street (north)	64.5	53.7	64.8	0.3

Note:

Above Criteria is for informational purposes since MTA does not have to comply with CEQR requirements.

AMBIENT NOISE QUALITY ZONE CRITERIA (ANQZ)

Receptor Site	Location	Time	Existing Ambient (dBA)	Equipment Total Lp (dBA)	Build Leq (dBA)	ANQZ	Compliance
R1	Colgate-Palmolive Building (east)	Day	64.5	57.6	65.3	65	Meets
		Night	NA	NA	NA	NA	NA
R2	ITT Americas Building (west)	Day	64.5	58.0	65.4	65	Meets
		Night	NA	NA	NA	NA	NA
R3	Sidewalk Adjacent (north)	Day	74.3	53.0	74.3	65	Meets
		Night	NA	NA	NA	NA	NA
R4	Sidewalk Across 50th Street (north)	Day	74.3	51.2	74.3	65	Meets
		Night	NA	NA	NA	NA	NA
R5	Hotel Elevated Receptor Across 50th Street (north)	Day	64.5	53.7	64.8	65	Meets
		Night	NA	NA	NA	NA	NA

Note:

Used lowest ambient (weekday or weekend whichever lower).

EXISTING AMBIENT (dBA)

Receptor Site	Location	Weekend		Weekday	
		Day	Night	Day	Night
	Roof (46 East 50th Street)	NA	NA	64.5	NA
	Roof (46 East 50th Street) with existing HVAC operating	NA	NA	71.6	NA
	Sidewalk Adjacent (north)	NA	NA	74.3	NA

Note:

Lowest ambient listed.

Only test during weekday business hours (9AM-5PM).

RESULTS SUMMARY - 50th Street Facility - Daytime Operation, Testing Mode

Receptor Site	Location	Existing Ambient (dBA)	Equipment Total Lp (dBA)	Build Leq (dBA)	Change
R6	COLGATE-PALMOLIVE BUILDING TOWARD EAST, Windows 1-story above cooling tower	64.5	59.3	65.6	1.1
R7	ITT AMERICAS BUILDING TOWARD WEST, Windows 1-story above cooling tower	64.5	59.0	65.6	1.1
R8	COLGATE-PALMOLIVE BUILDING TOWARD EAST, Windows 2-stories above cooling tower	64.5	57.3	65.3	0.8
R9	ITT AMERICAS BUILDING TOWARD WEST, Windows 2-stories above cooling tower	64.5	58.1	65.4	0.9

Note:

Above Criteria is for informational purposes since MTA does not have to comply with CEQR requirements.

AMBIENT NOISE QUALITY ZONE CRITERIA (ANQZ)

Receptor Site	Location	Time	Existing Ambient (dBA)	Equipment Total Lp (dBA)	Build Leq (dBA)	ANQZ	Compliance
R6	COLGATE-PALMOLIVE BUILDING TOWARD EAST, Windows 1-story above cooling tower	Day	64.5	59.3	65.6	65	Meets
		Night	NA	NA	NA	NA	NA
R7	ITT AMERICAS BUILDING TOWARD WEST, Windows 1-story above cooling tower	Day	64.5	59.0	65.6	65	Meets
		Night	NA	NA	NA	NA	NA
R8	COLGATE-PALMOLIVE BUILDING TOWARD EAST, Windows 2-stories above cooling tower	Day	64.5	57.3	65.3	65	Meets
		Night	NA	NA	NA	NA	NA
R9	ITT AMERICAS BUILDING TOWARD WEST, Windows 2-stories above cooling tower	Day	64.5	58.1	65.4	65	Meets
		Night	NA	NA	NA	NA	NA

Note:

Used lowest ambient (weekday or weekend whichever lower).

EXISTING AMBIENT (dBA)

Receptor Site	Location	Weekend		Weekday	
		Day	Night	Day	Night
	Roof (46 East 50th Street)	NA	63.5	NA	63.0
	Roof (46 East 50th Street) with existing HVAC operating	NA	NA	NA	NA
	Sidewalk Adjacent (north)	NA	NA	NA	NA

Note:

Lowest ambient listed.

RESULTS SUMMARY - 50th Street Facility - Nighttime Operation, Off-Peak Load

Receptor Site	Location	Existing Ambient (dBA)	Equipment Total Lp (dBA)	Build Leq (dBA)	Change
R1	Colgate-Palmolive Building (east)	63.0	46.5	63.1	0.1
R2	ITT Americas Building (west)	63.0	43.7	63.1	0.1
R3	Sidewalk Adjacent (north)	63.0	37.3	63.0	0.0
R4	Sidewalk Across 50th Street (north)	63.0	35.9	63.0	0.0
R5	Hotel Elevated Receptor Across 50th Street (north)	63.0	39.8	63.0	0.0

Note:

Above Criteria is for informational purposes since MTA does not have to comply with CEQR requirements.

Existing ambient at R3 and R4 not available. Used rooftop existing ambient levels.

AMBIENT NOISE QUALITY ZONE CRITERIA (ANQZ)

Receptor Site	Location	Time	Existing Ambient (dBA)	Equipment Total Lp (dBA)	Build Leq (dBA)	ANQZ	Compliance
R1	Colgate-Palmolive Building (east)	Day	NA	NA	NA	NA	NA
		Night	63.0	46.5	63.1	55	Meets
R2	ITT Americas Building (west)	Day	NA	NA	NA	NA	NA
		Night	63.0	43.7	63.1	55	Meets
R3	Sidewalk Adjacent (north)	Day	NA	NA	NA	NA	NA
		Night	63.0	37.3	63.0	55	Meets
R4	Sidewalk Across 50th Street (north)	Day	NA	NA	NA	NA	NA
		Night	63.0	35.9	63.0	55	Meets
R5	Hotel Elevated Receptor Across 50th Street (north)	Day	NA	NA	NA	NA	NA
		Night	63.0	39.8	63.0	55	Meets

Note:

Sidewalk Existing Ambient not available. Used rooftop ambient levels.

Used lowest ambient (weekday or weekend whichever lower).

EXISTING AMBIENT (dBA)

Receptor Site	Location	Weekend		Weekday	
		Day	Night	Day	Night
	Roof (46 East 50th Street)	NA	63.5	NA	63.0
	Roof (46 East 50th Street) with existing HVAC operating	NA	NA	NA	NA
	Sidewalk Adjacent (north)	NA	NA	NA	NA

Note:

Lowest ambient listed.

RESULTS SUMMARY - 50th Street Facility - Nighttime Operation, Off-Peak Load

Receptor Site	Location	Existing Ambient (dBA)	Equipment Total Lp (dBA)	Build Leq (dBA)	Change
R6	COLGATE-PALMOLIVE BUILDING TOWARD EAST, Windows 1-story above cooling tower	63.0	51.1	63.3	0.3
R7	ITT AMERICAS BUILDING TOWARD WEST, Windows 1-story above cooling tower	63.0	48.2	63.1	0.1
R8	COLGATE-PALMOLIVE BUILDING TOWARD EAST, Windows 2-stories above cooling tower	63.0	44.8	63.1	0.1
R9	ITT AMERICAS BUILDING TOWARD WEST, Windows 2-stories above cooling tower	63.0	41.9	63.0	0.0

Note:

Above Criteria is for informational purposes since MTA does not have to comply with CEQR requirements.

Existing ambient at R3 and R4 not available. Used rooftop existing ambient levels.

AMBIENT NOISE QUALITY ZONE CRITERIA (ANQZ)

Receptor Site	Location	Time	Existing Ambient (dBA)	Equipment Total Lp (dBA)	Build Leq (dBA)	ANQZ	Compliance
R6	COLGATE-PALMOLIVE BUILDING TOWARD EAST, Windows 1-story above cooling tower	Day	NA	NA	NA	NA	NA
		Night	63.0	51.1	63.3	55	Meets
R7	ITT AMERICAS BUILDING TOWARD WEST, Windows 1-story above cooling tower	Day	NA	NA	NA	NA	NA
		Night	63.0	48.2	63.1	55	Meets
R8	COLGATE-PALMOLIVE BUILDING TOWARD EAST, Windows 2-stories above cooling tower	Day	NA	NA	NA	NA	NA
		Night	63.0	44.8	63.1	55	Meets
R9	ITT AMERICAS BUILDING TOWARD WEST, Windows 2-stories above cooling tower	Day	NA	NA	NA	NA	NA
		Night	63.0	41.9	63.0	55	Meets

Note:

Sidewalk Existing Ambient not available. Used rooftop ambient levels.

Used lowest ambient (weekday or weekend whichever lower).