

# APPENDIX E

Noise



## Appendix D- Noise



# Field Noise Measurement Data Sheets





# FIELD NOISE MEASUREMENT DATA

PROJECT LADWP VALLEY REGENERATION STAFF DEMO PROJECT # 10649-48  
 SITE ID \_\_\_\_\_  
 SITE ADDRESS \_\_\_\_\_ OBSERVER(S) PEJE VITAR  
 START DATE 10/3/19 END DATE 10/3/19  
 START TIME \_\_\_\_\_ END TIME \_\_\_\_\_

METEOROLOGICAL CONDITIONS  
 TEMP 68 F HUMIDITY 40 % R.H. WIND CALM LIGHT MODERATE  
 WINDSPD \_\_\_\_\_ MPH DIR. N NE S SE S SW W NW VARIABLE STEADY GUSTY  
 SKY SUNNY CLEAR OVRCAST PRTLY CLDY FOG RAIN

ACOUSTIC MEASUREMENTS  
 MEAS. INSTRUMENT PICCOLO SLM-3 TYPE 1 2 SERIAL # 130927046  
 CALIBRATOR ISSWA CA 114 SERIAL # 420151  
 CALIBRATION CHECK \_\_\_\_\_ PRE-TEST \_\_\_\_\_ dBA SPL POST-TEST \_\_\_\_\_ dBA SPL WINDSCRN YES

SETTINGS A-WTD SLOW FAST FRONTAL RANDOM ANSI OTHER: \_\_\_\_\_

REC. #	BEGIN	END	Leq	Lmax	Lmin	L90	L50	L10	OTHER (SPECIFY METRIC)
<u>ST-3</u> 3-4	<u>10:00</u>	<u>10:15</u>	<u>70.2</u>	<u>88.5</u>	<u>56.4</u>				

COMMENTS  
READING TAKEN IN FRONT OF 9417 SAN FERNANDO RD. (EMERSON INN MOTEL); PRIMARY NOISE SOURCE IS TRAFFIC ON SAN FERNANDO RD; SECONDARY IS DISTANT TRAFFIC NOISE FROM SHERBORN ST. TO THE NORTH.


SOURCE INFO AND TRAFFIC COUNTS  
 PRIMARY NOISE SOURCE TRAFFIC AIRCRAFT RAIL INDUSTRIAL OTHER: \_\_\_\_\_  
 ROADWAY TYPE: ASPHALT DIST. TO RDWY C/L OR EOP: 9'  
 TRAFFIC COUNT DURATION: 15 MIN SPEED \_\_\_\_\_ MIN SPEED \_\_\_\_\_  

COUNT 1 (OR RDWY 1)	DIRECTION	NB/EB		SB/WB		IF COUNTING BOTH DIRECTIONS AS ONE, CHECK HERE	COUNT 2 (OR RDWY 2)	NB/EB		SB/WB	
		NB/EB	SB/WB	NB/EB	SB/WB			NB/EB	SB/WB		
	AUTOS	<u>158</u>									
	MED TRKS	<u>16</u>									
	HVY TRKS	<u>2</u>									
	BUSES	<u>3</u>									
	MOTRCLS	<u>1</u>									

SPEEDS ESTIMATED BY: RADAR / DRIVING THE PACE  
 POSTED SPEED LIMIT SIGNS SAY: \_\_\_\_\_

OTHER NOISE SOURCES (BACKGROUND): DIST. AIRCRAFT RUSTLING LEAVES DIST. BARKING DOGS BIRDS DIST. INDUSTRIAL  
 DIST. KIDS PLAYING DIST. CONVRSTNS / YELLING DIST. TRAFFIC (LIST RDWYS BELOW) DISTD GARDENERS / LANDSCAPING NOISE  
 OTHER: \_\_\_\_\_

DESCRIPTION / SKETCH  
 TERRAIN HARD SOFT MIXED FLAT OTHER: \_\_\_\_\_  
 PHOTOS 6014; 6016; 6017; 6018; 6019; 6020  
 OTHER COMMENTS / SKETCH \_\_\_\_\_





# FIELD NOISE MEASUREMENT DATA

**DUDEK**

PROJECT LADWP VALLEY REGENERATION STATION DEMO PROJECT # 10649-48  
 SITE ID \_\_\_\_\_  
 SITE ADDRESS \_\_\_\_\_ OBSERVER(S) PETE VITAR  
 START DATE 10/3/19 END DATE 10/3/19  
 START TIME \_\_\_\_\_ END TIME \_\_\_\_\_

METEOROLOGICAL CONDITIONS  
 TEMP 72 F HUMIDITY 37 % R.H. WIND CALM LIGHT MODERATE  
 WINDSPD \_\_\_\_\_ MPH DIR. N NE S SE S SW W NW VARIABLE STEADY GUSTY  
 SKY SUNNY CLEAR OVRCAST PRTLY CLDY FOG RAIN

ACOUSTIC MEASUREMENTS  
 MEAS. INSTRUMENT PICCOLU SLM-3 TYPE 1 2 SERIAL# 136927046  
 CALIBRATOR JSSWA CA 114 SERIAL# 480151  
 CALIBRATION CHECK \_\_\_\_\_ PRE-TEST \_\_\_\_\_ dBA SPL POST-TEST \_\_\_\_\_ dBA SPL WINDSCREEN YES

SETTINGS A-WTD SLOW FAST FRONTAL RANDOM ANSI OTHER: \_\_\_\_\_

REC. #	BEGIN	END	Leq	Lmax	Lmin	L90	L50	L10	OTHER (SPECIFY METRIC)
<u>7-8</u>	<u>10:47</u>	<u>11:02</u>	<u>70.2</u>	<u>90.5</u>	<u>63.1</u>				

ST-4

COMMENTS  
READING TAKEN IN MIDDLE OF 12.112 TRUESDALE ST (RESIDENTIAL);  
PRIMARY NOISE SOURCE IS TRAFFIC ON NEARBY SAN  
FERNANDO RD; SOUNDWALL IS CONSTANT HULL OF ~~SOUNDWALL~~ SASHA DOOR  
MANUFACTURING COMPANY IMMEDIATE TO THE EAST

SOURCE INFO AND TRAFFIC COUNTS  
 PRIMARY NOISE SOURCE TRAFFIC AIRCRAFT RAIL INDUSTRIAL OTHER: \_\_\_\_\_  
 ROADWAY TYPE: ASPHALT DIST. TO RDWY C/L OR EOP: 7'  
 TRAFFIC COUNT DURATION: 15 MIN SPEED \_\_\_\_\_  
 DIRECTION NB/EB SB/WB NB/EB SB/WB IF COUNTING BOTH DIRECTIONS AS ONE, CHECK HERE  
 COUNT 1 (OR RDWY 1) AUTOS 19 MED TRKS 2 HVY TRKS 1 BUSES 0 MOTRCLS 0  
 COUNT 2 (OR RDWY 2) \_\_\_\_\_

SPEEDS ESTIMATED BY: RADAR / DRIVING THE PACE  
 POSTED SPEED LIMIT SIGNS SAY: \_\_\_\_\_

OTHER NOISE SOURCES (BACKGROUND): DIST. AIRCRAFT RUSTLING LEAVES DIST. BARKING DOGS BIRDS DIST. INDUSTRIAL  
 DIST. KIDS PLAYING DIST. CONVRTNS / YELLING DIST. TRAFFIC (LIST RDWYS BELOW) DISTD GARDENERS / LANDSCAPING NOISE  
 OTHER: SAN FERNANDO RD TRAFFIC TO THE EAST; SASHA DOOR  
MANUFACTURING PLANT AT CORNER OF TRUESDALE & SAN FERNANDO RD; TRAIN WHISTLE AT 10:55 AM

DESCRIPTION / SKETCH  
 TERRAIN HARD SOFT MIXED FLAT OTHER: \_\_\_\_\_  
 PHOTOS 6031, 6032, 6033, 6034, 6035, 6036  
 OTHER COMMENTS / SKETCH \_\_\_\_\_




# Construction Noise Model Input / Output



Report date: 10/31/2019  
 Case Description: Valley Generating Station Demolition\_Prep

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Motel, Hospital - Nearest	Residential	60	55	50

Description	Impact Device	Land Use	Usage(%)	Equipment			Receptor Distance (feet)	Estimated Shielding (dBA)
				Spec Lmax (dBA)	Actual Lmax (dBA)			
Excavator	No	Residential	40		80.7	1100	0	
Grader	No	Residential	40	85		1150	0	

Equipment	Calculated (dBA)		Noise Limits (dBA)			
	*Lmax	Leq	Day Lmax	Day Leq	Evening Lmax	Evening Leq
Excavator	53.9	49.9	N/A	N/A	N/A	N/A
Grader	57.8	53.8	N/A	N/A	N/A	N/A
Total	57.8	55.3	N/A	N/A	N/A	N/A

\*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Motel, Hospital - Typical	Residential	60	55	50

Description	Impact Device	Land Use	Usage(%)	Equipment			Receptor Distance (feet)	Estimated Shielding (dBA)
				Spec Lmax (dBA)	Actual Lmax (dBA)			
Excavator	No	Residential	40		80.7	1775	0	
Grader	No	Residential	40	85		1775	0	

Equipment	Calculated (dBA)		Noise Limits (dBA)			
	*Lmax	Leq	Day Lmax	Day Leq	Evening Lmax	Evening Leq
Excavator	49.7	45.7	N/A	N/A	N/A	N/A
Grader	54	50	N/A	N/A	N/A	N/A
Total	54	51.4	N/A	N/A	N/A	N/A

\*Calculated Lmax is the Loudest value.

---- Receptor #3 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Residential - Nearest	Residential	60	55	50

Impact	Equipment Spec Lmax (dBA)	Land Use	Usage(%)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)

Description	Device	Usage(%)	(dBA)	(dBA)	(feet)	(dBA)
Excavator	No	40		80.7	1200	5
Grader	No	40	85		1250	5

Results

Equipment	Calculated (dBA)		Noise Limits (dBA)			
	*Lmax	Leq	Day		Evening	
			Lmax	Leq	Lmax	Leq
Excavator	48.1	44.1	N/A	N/A	N/A	N/A
Grader	52	48.1	N/A	N/A	N/A	N/A
Total	52	49.5	N/A	N/A	N/A	N/A

\*Calculated Lmax is the Loudest value.

---- Receptor #4 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Residential - Typical	Residential	60	55	50

Equipment

Description	Device	Usage(%)	Impact	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
				Spec Lmax (dBA)	Actual Lmax (dBA)		
Excavator	No	40			80.7	1875	5
Grader	No	40		85		1875	5

Results

Equipment	Calculated (dBA)		Noise Limits (dBA)			
	*Lmax	Leq	Day		Evening	
			Lmax	Leq	Lmax	Leq
Excavator	44.2	40.2	N/A	N/A	N/A	N/A
Grader	48.5	44.5	N/A	N/A	N/A	N/A
Total	48.5	45.9	N/A	N/A	N/A	N/A

\*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 11/5/2019  
Case Description: Valley Generating Station Ph 3A Demo Outlying\_Crushing

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Motel, Hospital - Nearest	Residential	60	55	50

Equipment

Description	Device	Usage(%)	Impact	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
				Spec Lmax (dBA)	Actual Lmax (dBA)		
All Other Equipment > 5 HP	No	50		85		1100	0
Tractor	No	40		84		1150	0
Grader	No	40		85		1250	0
Vibrating Hopper	No	50			87	1200	0

Equipment	Results					
	Calculated (dBA)			Noise Limits (dBA)		
	*Lmax	Leq	Day Lmax	Leq	Evening Lmax	Leq
All Other Equipment > 5 HP	58.2	55.1	N/A	N/A	N/A	N/A
Tractor	56.8	52.8	N/A	N/A	N/A	N/A
Grader	57	53.1	N/A	N/A	N/A	N/A
Vibrating Hopper	59.4	56.4	N/A	N/A	N/A	N/A
Total	59.4	60.6	N/A	N/A	N/A	N/A

\*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Motel, Hospital - Typical	Residential	60	55	50

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
All Other Equipment > 5 HP	No	50	85		1775	0
Tractor	No	40	84		1775	0
Grader	No	40	85		1775	0
Vibrating Hopper	No	50		87	1775	0

Equipment	Results					
	Calculated (dBA)			Noise Limits (dBA)		
	*Lmax	Leq	Day Lmax	Leq	Evening Lmax	Leq
All Other Equipment > 5 HP	54	51	N/A	N/A	N/A	N/A
Tractor	53	49	N/A	N/A	N/A	N/A
Grader	54	50	N/A	N/A	N/A	N/A
Vibrating Hopper	56	53	N/A	N/A	N/A	N/A
Total	56	57	N/A	N/A	N/A	N/A

\*Calculated Lmax is the Loudest value.

---- Receptor #3 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Residential - Nearest	Residential	60	55	50

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
All Other Equipment > 5 HP	No	50	85		1200	5
Tractor	No	40	84		1250	5
Grader	No	40	85		1300	5
Vibrating Hopper	No	50		87	1350	5

Equipment	Results					
	Calculated (dBA)			Noise Limits (dBA)		
	*Lmax	Leq	Day Lmax	Leq	Evening Lmax	Leq

All Other Equipment > 5 HP		52.4	49.4	N/A	N/A	N/A	N/A
Tractor		51	47.1	N/A	N/A	N/A	N/A
Grader		51.7	47.7	N/A	N/A	N/A	N/A
Vibrating Hopper		53.4	50.4	N/A	N/A	N/A	N/A
	Total	53.4	54.9	N/A	N/A	N/A	N/A

\*Calculated Lmax is the Loudest value.

---- Receptor #4 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Residential - Typical	Residential	60	55	50

		Equipment				
		Spec	Actual	Receptor	Estimated	
		Lmax	Lmax	Distance	Shielding	
Description	Impact Device	Usage(%)	(dBA)	(dBA)	(feet)	(dBA)
All Other Equipment > 5 HP	No	50	85	1875	5	
Tractor	No	40	84	1875	5	
Grader	No	40	85	1875	5	
Vibrating Hopper	No	50		87	1875	5

Results

		Calculated (dBA)		Noise Limits (dBA)			
				Day		Evening	
		*Lmax	Leq	Lmax	Leq	Lmax	Leq
Equipment							
All Other Equipment > 5 HP		48.5	45.5	N/A	N/A	N/A	N/A
Tractor		47.5	43.5	N/A	N/A	N/A	N/A
Grader		48.5	44.5	N/A	N/A	N/A	N/A
Vibrating Hopper		50.5	47.5	N/A	N/A	N/A	N/A
	Total	50.5	51.6	N/A	N/A	N/A	N/A

\*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 11/5/2019  
Case Description: Valley Generating Station Ph 3B Demo Outlying

---- Receptor #1 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Motel, Hospital - Nearest	Residential	60	55	50

		Equipment				
		Spec	Actual	Receptor	Estimated	
		Lmax	Lmax	Distance	Shielding	
Description	Impact Device	Usage(%)	(dBA)	(dBA)	(feet)	(dBA)
Crane	No	16	80.6	1100	0	
Front End Loader	No	40	79.1	1150	0	
Excavator	No	40	80.7	1250	0	
Grader	No	40	85	1200	0	

Results

Calculated (dBA)	Noise Limits (dBA)
------------------	--------------------



Equipment	*Lmax	Leq	Day		Evening	
			Lmax	Leq	Lmax	Leq
Crane	53.7	45.7	N/A	N/A	N/A	N/A
Front End Loader	51.9	47.9	N/A	N/A	N/A	N/A
Excavator	52.8	48.8	N/A	N/A	N/A	N/A
Grader	57.4	53.4	N/A	N/A	N/A	N/A
Total	57.4	56	N/A	N/A	N/A	N/A

\*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Motel, Hospital - Typical	Residential	60	55	50

Description	Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Crane	No	16		80.6	1775	0
Front End Loader	No	40		79.1	1775	0
Excavator	No	40		80.7	1775	0
Grader	No	40	85		1775	0

Results

Equipment	Calculated (dBA)		Noise Limits (dBA)			
	*Lmax	Leq	Day		Evening	
			Lmax	Leq	Lmax	Leq
Crane	49.5	41.6	N/A	N/A	N/A	N/A
Front End Loader	48.1	44.1	N/A	N/A	N/A	N/A
Excavator	49.7	45.7	N/A	N/A	N/A	N/A
Grader	54	50	N/A	N/A	N/A	N/A
Total	54	52.5	N/A	N/A	N/A	N/A

\*Calculated Lmax is the Loudest value.

---- Receptor #3 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Residential - Nearest	Residential	60	55	50

Description	Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Crane	No	16		80.6	1200	5
Front End Loader	No	40		79.1	1250	5
Excavator	No	40		80.7	1300	5
Grader	No	40	85		1350	5

Results

Equipment	Calculated (dBA)		Noise Limits (dBA)			
	*Lmax	Leq	Day		Evening	
			Lmax	Leq	Lmax	Leq
Crane	47.9	40	N/A	N/A	N/A	N/A
Front End Loader	46.2	42.2	N/A	N/A	N/A	N/A
Excavator	47.4	43.4	N/A	N/A	N/A	N/A

Grader		51.4	47.4	N/A	N/A	N/A	N/A
	Total	51.4	50.1	N/A	N/A	N/A	N/A

\*Calculated Lmax is the Loudest value.

---- Receptor #4 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Residential - Typical	Residential	60	55	50

Description	Device	Impact	Usage(%)	Equipment			Estimated Shielding (dBA)
				Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	
Crane	No		16		80.6	1875	5
Front End Loader	No		40		79.1	1875	5
Excavator	No		40		80.7	1875	5
Grader	No		40	85		1875	5

Results

Equipment	Calculated (dBA)		Noise Limits (dBA)			
	*Lmax	Leq	Day		Evening	
			Lmax	Leq	Lmax	Leq
Crane	44.1	36.1	N/A	N/A	N/A	N/A
Front End Loader	42.6	38.6	N/A	N/A	N/A	N/A
Excavator	44.2	40.2	N/A	N/A	N/A	N/A
Grader	48.5	44.5	N/A	N/A	N/A	N/A
	Total	48.5	47	N/A	N/A	N/A

\*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 11/5/2019  
Case Description: Valley Generating Station Ph 3C Demo Outlying

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Motel, Hospital - Nearest	Residential	60	55	50

Description	Device	Impact	Usage(%)	Equipment			Estimated Shielding (dBA)
				Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	
All Other Equipment > 5 HP	No		50	85		1100	0
Excavator	No		40		80.7	1150	0
Front End Loader	No		40		79.1	1250	0
Front End Loader	No		40		79.1	1200	0
Excavator	No		40		80.7	1400	0
Grader	No		40	85		1300	0

Results

Calculated (dBA)	Noise Limits (dBA)	
	Day	Evening

Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq
All Other Equipment > 5 HP	58.2	55.1	N/A	N/A	N/A	N/A
Excavator	53.5	49.5	N/A	N/A	N/A	N/A
Front End Loader	51.2	47.2	N/A	N/A	N/A	N/A
Front End Loader	51.5	47.5	N/A	N/A	N/A	N/A
Excavator	51.8	47.8	N/A	N/A	N/A	N/A
Grader	56.7	52.7	N/A	N/A	N/A	N/A
Total	58.2	58.9	N/A	N/A	N/A	N/A

\*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Motel, Hospital - Typical	Residential	60	55	50

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
All Other Equipment > 5 HP	No	50	85		1775	0
Excavator	No	40		80.7	1775	0
Front End Loader	No	40		79.1	1775	0
Front End Loader	No	40		79.1	1775	0
Excavator	No	40		80.7	1775	0
Grader	No	40	85		1775	0

Results

		Calculated (dBA)		Noise Limits (dBA)		
				Day	Evening	
Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq
All Other Equipment > 5 HP	54	51	N/A	N/A	N/A	N/A
Excavator	49.7	45.7	N/A	N/A	N/A	N/A
Front End Loader	48.1	44.1	N/A	N/A	N/A	N/A
Front End Loader	48.1	44.1	N/A	N/A	N/A	N/A
Excavator	49.7	45.7	N/A	N/A	N/A	N/A
Grader	54	50	N/A	N/A	N/A	N/A
Total	54	55.5	N/A	N/A	N/A	N/A

\*Calculated Lmax is the Loudest value.

---- Receptor #3 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Residential - Nearest	Residential	60	55	50

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
All Other Equipment > 5 HP	No	50	85		1200	5
Excavator	No	40		80.7	1250	5
Front End Loader	No	40		79.1	1300	5
Front End Loader	No	40		79.1	1350	5
Excavator	No	40		80.7	1500	5
Grader	No	40	85		1400	5

Equipment	Results					
	Calculated (dBA)			Noise Limits (dBA)		
	*Lmax	Leq	Day	Leq	Evening	Leq
All Other Equipment > 5 HP	52.4	49.4	N/A	N/A	N/A	N/A
Excavator	47.8	43.8	N/A	N/A	N/A	N/A
Front End Loader	45.8	41.8	N/A	N/A	N/A	N/A
Front End Loader	45.5	41.5	N/A	N/A	N/A	N/A
Excavator	46.2	42.2	N/A	N/A	N/A	N/A
Grader	51.1	47.1	N/A	N/A	N/A	N/A
Total	52.4	53.2	N/A	N/A	N/A	N/A

\*Calculated Lmax is the Loudest value.

---- Receptor #4 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Residential - Typical	Residential	60	55	50

Description	Impact Device	Usage(%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
All Other Equipment > 5 HP	No	50	85		1875	5
Excavator	No	40		80.7	1875	5
Front End Loader	No	40		79.1	1875	5
Front End Loader	No	40		79.1	1875	5
Excavator	No	40		80.7	1875	5
Grader	No	40	85		1875	5

Equipment	Results					
	Calculated (dBA)			Noise Limits (dBA)		
	*Lmax	Leq	Day	Leq	Evening	Leq
All Other Equipment > 5 HP	48.5	45.5	N/A	N/A	N/A	N/A
Excavator	44.2	40.2	N/A	N/A	N/A	N/A
Front End Loader	42.6	38.6	N/A	N/A	N/A	N/A
Front End Loader	42.6	38.6	N/A	N/A	N/A	N/A
Excavator	44.2	40.2	N/A	N/A	N/A	N/A
Grader	48.5	44.5	N/A	N/A	N/A	N/A
Total	48.5	50	N/A	N/A	N/A	N/A

\*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 11/5/2019  
Case Description: Valley Generating Station Ph 4A Demo Units 1\_2

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Motel, Hospital - Nearest	Residential	60	55	50

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
			No	50		
All Other Equipment > 5 HP	No	50	85	1150	0	
All Other Equipment > 5 HP	No	16		80.6	1250	0
Crane	No	16		80.6	1200	0
Crane	No	40		79.1	1400	0
Front End Loader	No	40		79.1	1300	0
Front End Loader	No	50	85		1250	0
All Other Equipment > 5 HP	No	50	85		1400	0
All Other Equipment > 5 HP	No	40		79.1	1500	0
Front End Loader	No	40		79.1	1600	0
Front End Loader	No	40		79.1	1600	0

Equipment	Results					
	Calculated (dBA)			Noise Limits (dBA)		
	*Lmax	Leq	Day Lmax	Leq	Evening Lmax	Leq
All Other Equipment > 5 HP	58.2	55.1	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	57.8	54.8	N/A	N/A	N/A	N/A
Crane	52.6	44.6	N/A	N/A	N/A	N/A
Crane	52.9	45	N/A	N/A	N/A	N/A
Front End Loader	50.2	46.2	N/A	N/A	N/A	N/A
Front End Loader	50.8	46.8	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	57	54	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	56.1	53	N/A	N/A	N/A	N/A
Front End Loader	49.6	45.6	N/A	N/A	N/A	N/A
Front End Loader	49	45	N/A	N/A	N/A	N/A
Total	58.2	61.1	N/A	N/A	N/A	N/A

\*Calculated Lmax is the Loudest value.

		---- Receptor #2 ----		
Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Motel, Hospital - Typical	Residential	60	55	50

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
			No	50		
All Other Equipment > 5 HP	No	50	85	1775	0	
All Other Equipment > 5 HP	No	16		80.6	1775	0
Crane	No	16		80.6	1775	0
Crane	No	40		79.1	1775	0
Front End Loader	No	40		79.1	1775	0
Front End Loader	No	50	85		1775	0
All Other Equipment > 5 HP	No	50	85		1775	0
All Other Equipment > 5 HP	No	40		79.1	1775	0
Front End Loader	No	40		79.1	1775	0
Front End Loader	No	40		79.1	1775	0

Calculated (dBA)	Results	
	Day	Evening

Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq
All Other Equipment > 5 HP	54	51	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	54	51	N/A	N/A	N/A	N/A
Crane	49.5	41.6	N/A	N/A	N/A	N/A
Crane	49.5	41.6	N/A	N/A	N/A	N/A
Front End Loader	48.1	44.1	N/A	N/A	N/A	N/A
Front End Loader	48.1	44.1	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	54	51	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	54	51	N/A	N/A	N/A	N/A
Front End Loader	48.1	44.1	N/A	N/A	N/A	N/A
Front End Loader	48.1	44.1	N/A	N/A	N/A	N/A
Total	54	58	N/A	N/A	N/A	N/A

\*Calculated Lmax is the Loudest value.

---- Receptor #3 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Residential - Nearest	Residential	60	55	50

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
All Other Equipment > 5 HP	No	50	50	85	1200	5
All Other Equipment > 5 HP	No	50	50	85	1250	5
Crane	No	16	16	80.6	1300	5
Crane	No	16	16	80.6	1350	5
Front End Loader	No	40	40	79.1	1500	5
Front End Loader	No	40	40	79.1	1400	5
All Other Equipment > 5 HP	No	50	50	85	1700	5
All Other Equipment > 5 HP	No	50	50	85	1800	5
Front End Loader	No	40	40	79.1	1400	5
Front End Loader	No	40	40	79.1	1500	5

Results

Equipment	Calculated (dBA)		Noise Limits (dBA)			
	*Lmax	Leq	Day		Evening	
			Lmax	Leq	Lmax	Leq
All Other Equipment > 5 HP	52.4	49.4	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	52	49	N/A	N/A	N/A	N/A
Crane	47.3	39.3	N/A	N/A	N/A	N/A
Crane	46.9	39	N/A	N/A	N/A	N/A
Front End Loader	44.6	40.6	N/A	N/A	N/A	N/A
Front End Loader	45.2	41.2	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	49.4	46.4	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	48.9	45.9	N/A	N/A	N/A	N/A
Front End Loader	45.2	41.2	N/A	N/A	N/A	N/A
Front End Loader	44.6	40.6	N/A	N/A	N/A	N/A
Total	52.4	55	N/A	N/A	N/A	N/A

\*Calculated Lmax is the Loudest value.

---- Receptor #4 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Residential - Typical	Residential	60	55	50

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
			No	50		
All Other Equipment > 5 HP	No	50	85	1875	5	
All Other Equipment > 5 HP	No	16		80.6	1875	5
Crane	No	16		80.6	1875	5
Crane	No	40		79.1	1875	5
Front End Loader	No	40		79.1	1875	5
Front End Loader	No	50	85	1875	5	
All Other Equipment > 5 HP	No	50	85	1875	5	
All Other Equipment > 5 HP	No	40		79.1	1875	5
Front End Loader	No	40		79.1	1875	5
Front End Loader	No	40		79.1	1875	5

Equipment	Results					
	Calculated (dBA)			Noise Limits (dBA)		
	*Lmax	Leq	Day Lmax	Leq	Evening Lmax	Leq
All Other Equipment > 5 HP	48.5	45.5	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	48.5	45.5	N/A	N/A	N/A	N/A
Crane	44.1	36.1	N/A	N/A	N/A	N/A
Crane	44.1	36.1	N/A	N/A	N/A	N/A
Front End Loader	42.6	38.6	N/A	N/A	N/A	N/A
Front End Loader	42.6	38.6	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	48.5	45.5	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	48.5	45.5	N/A	N/A	N/A	N/A
Front End Loader	42.6	38.6	N/A	N/A	N/A	N/A
Front End Loader	42.6	38.6	N/A	N/A	N/A	N/A
Total	48.5	52.5	N/A	N/A	N/A	N/A

\*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 11/5/2019  
Case Description: Valley Generating Station Ph 4B Demo Unit 1

		---- Receptor #1 ----		
Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Motel, Hospital - Nearest	Residential	60	55	50

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
			No	50		
All Other Equipment > 5 HP	No	40		80.7	1150	0
Excavator	No	40		80.7	1150	0

Equipment	Results					
	Calculated (dBA)			Noise Limits (dBA)		

Equipment		Day		Evening			
		*Lmax	Leq	Lmax	Leq	Lmax	Leq
All Other Equipment > 5 HP		58.2	55.1	N/A	N/A	N/A	N/A
Excavator		53.5	49.5	N/A	N/A	N/A	N/A
	Total	58.2	56.2	N/A	N/A	N/A	N/A

\*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Motel, Hospital - Typical	Residential	60	55	50

Description	Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
All Other Equipment > 5 HP	No	50	85		1775	0
Excavator	No	40		80.7	1775	0

Results

Equipment		Calculated (dBA)		Noise Limits (dBA)			
		*Lmax	Leq	Day	Evening	Lmax	Leq
All Other Equipment > 5 HP		54	51	N/A	N/A	N/A	N/A
Excavator		49.7	45.7	N/A	N/A	N/A	N/A
	Total	54	52.1	N/A	N/A	N/A	N/A

\*Calculated Lmax is the Loudest value.

---- Receptor #3 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Residential - Nearest	Residential	60	55	50

Description	Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
All Other Equipment > 5 HP	No	50	85		1200	5
Excavator	No	40		80.7	1250	5

Results

Equipment		Calculated (dBA)		Noise Limits (dBA)			
		*Lmax	Leq	Day	Evening	Lmax	Leq
All Other Equipment > 5 HP		52.4	49.4	N/A	N/A	N/A	N/A
Excavator		47.8	43.8	N/A	N/A	N/A	N/A
	Total	52.4	50.4	N/A	N/A	N/A	N/A

\*Calculated Lmax is the Loudest value.

---- Receptor #4 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Residential - Typical	Residential	60	55	50

Equipment



Description	Impact Device	Usage(%)	Spec	Actual	Receptor	Estimated
			Lmax (dBA)	Lmax (dBA)	Distance (feet)	Shielding (dBA)
All Other Equipment > 5 HP	No	50	85		1875	5
Excavator	No	40		80.7	1875	5

Equipment	Results					
	Calculated (dBA)			Noise Limits (dBA)		
	*Lmax	Leq	Day Lmax	Leq	Evening Lmax	Leq
All Other Equipment > 5 HP	48.5	45.5	N/A	N/A	N/A	N/A
Excavator	44.2	40.2	N/A	N/A	N/A	N/A
<b>Total</b>	<b>48.5</b>	<b>46.6</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>

\*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 11/5/2019  
Case Description: Valley Generating Station Ph 4C Demo Units 1\_2

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Motel, Hospital - Nearest	Residential	60	55	50

Description	Impact Device	Usage(%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
All Other Equipment > 5 HP	No	50	85		1100	0
Crane	No	16		80.6	1150	0
Front End Loader	No	40		79.1	1250	0
All Other Equipment > 5 HP	No	50	85		1200	0
Front End Loader	No	40		79.1	1300	0

Equipment	Results					
	Calculated (dBA)			Noise Limits (dBA)		
	*Lmax	Leq	Day Lmax	Leq	Evening Lmax	Leq
All Other Equipment > 5 HP	58.2	55.1	N/A	N/A	N/A	N/A
Crane	53.3	45.4	N/A	N/A	N/A	N/A
Front End Loader	51.2	47.2	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	57.4	54.4	N/A	N/A	N/A	N/A
Front End Loader	50.8	46.8	N/A	N/A	N/A	N/A
<b>Total</b>	<b>58.2</b>	<b>58.7</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>

\*Calculated Lmax is the Loudest value.

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night

Motel, Hospital - Typical Residential 60 55 50

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
All Other Equipment > 5 HP	No	50	85		1775	0
Crane	No	16		80.6	1775	0
Front End Loader	No	40		79.1	1775	0
All Other Equipment > 5 HP	No	50	85		1775	0
Front End Loader	No	40		79.1	1775	0

Equipment	Results					
	Calculated (dBA)			Noise Limits (dBA)		
	Day		Evening			
*Lmax	Leq	Lmax	Leq	Lmax	Leq	
All Other Equipment > 5 HP	54	51	N/A	N/A	N/A	N/A
Crane	49.5	41.6	N/A	N/A	N/A	N/A
Front End Loader	48.1	44.1	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	54	51	N/A	N/A	N/A	N/A
Front End Loader	48.1	44.1	N/A	N/A	N/A	N/A
<b>Total</b>	<b>54</b>	<b>55</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>

\*Calculated Lmax is the Loudest value.

---- Receptor #3 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Residential - Nearest	Residential	60	55	50

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
All Other Equipment > 5 HP	No	50	85		1200	5
Crane	No	16		80.6	1250	5
Front End Loader	No	40		79.1	1300	5
All Other Equipment > 5 HP	No	50	85		1350	5
Front End Loader	No	40		79.1	1400	5

Equipment	Results					
	Calculated (dBA)			Noise Limits (dBA)		
	Day		Evening			
*Lmax	Leq	Lmax	Leq	Lmax	Leq	
All Other Equipment > 5 HP	52.4	49.4	N/A	N/A	N/A	N/A
Crane	47.6	39.6	N/A	N/A	N/A	N/A
Front End Loader	45.8	41.8	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	51.4	48.4	N/A	N/A	N/A	N/A
Front End Loader	45.2	41.2	N/A	N/A	N/A	N/A
<b>Total</b>	<b>52.4</b>	<b>52.9</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>

\*Calculated Lmax is the Loudest value.

---- Receptor #4 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Residential - Typical	Residential	60	55	50

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
All Other Equipment > 5 HP	No	50		85	1875	5
Crane	No	16			80.6	1875
Front End Loader	No	40			79.1	1875
All Other Equipment > 5 HP	No	50		85	1875	5
Front End Loader	No	40			79.1	1875

Equipment	Results					
	Calculated (dBA)			Noise Limits (dBA)		
			Day			Evening
	*Lmax	Leq	Lmax	Leq	Lmax	Leq
All Other Equipment > 5 HP	48.5	45.5	N/A	N/A	N/A	N/A
Crane	44.1	36.1	N/A	N/A	N/A	N/A
Front End Loader	42.6	38.6	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	48.5	45.5	N/A	N/A	N/A	N/A
Front End Loader	42.6	38.6	N/A	N/A	N/A	N/A
Total	48.5	49.5	N/A	N/A	N/A	N/A

\*Calculated Lmax is the Loudest value.

#### Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 11/5/2019  
Case Description: Valley Generating Station Ph 4D Demo Unit\_2

		---- Receptor #1 ----		
Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Motel, Hospital - Nearest	Residential	60	55	50

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
All Other Equipment > 5 HP	No	50		85	1100	0
Excavator	No	40			80.7	1150

Equipment	Results					
	Calculated (dBA)			Noise Limits (dBA)		
			Day			Evening
	*Lmax	Leq	Lmax	Leq	Lmax	Leq
All Other Equipment > 5 HP	58.2	55.1	N/A	N/A	N/A	N/A
Excavator	53.5	49.5	N/A	N/A	N/A	N/A
Total	58.2	56.2	N/A	N/A	N/A	N/A

\*Calculated Lmax is the Loudest value.

		---- Receptor #2 ----		
Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night

Motel, Hospital - Typical	Residential	60	55	50		
		Equipment				
		Impact	Spec	Actual	Receptor	Estimated
Description		Device	Usage(%)	Lmax (dBA)	Lmax (dBA)	Distance (feet)
All Other Equipment > 5 HP		No	50	85	1775	0
Excavator		No	40		80.7	1775
		Results				
		Calculated (dBA)			Noise Limits (dBA)	
					Day	Evening
Equipment		*Lmax	Leq	Lmax	Leq	Lmax
All Other Equipment > 5 HP		54	51	N/A	N/A	N/A
Excavator		49.5	41.6	N/A	N/A	N/A
	Total	54	55	N/A	N/A	N/A
*Calculated Lmax is the Loudest value.						

---- Receptor #3 ----						
		Baselines (dBA)				
Description	Land Use	Daytime	Evening	Night		
Residential - Nearest	Residential	60	55	50		
		Equipment				
		Impact	Spec	Actual	Receptor	Estimated
Description		Device	Usage(%)	Lmax (dBA)	Lmax (dBA)	Distance (feet)
All Other Equipment > 5 HP		No	50	85	1200	5
Excavator		No	40		80.7	1250
		Results				
		Calculated (dBA)			Noise Limits (dBA)	
					Day	Evening
Equipment		*Lmax	Leq	Lmax	Leq	Lmax
All Other Equipment > 5 HP		52.4	49.4	N/A	N/A	N/A
Excavator		47.6	39.6	N/A	N/A	N/A
	Total	52.4	52.9	N/A	N/A	N/A
*Calculated Lmax is the Loudest value.						

---- Receptor #4 ----						
		Baselines (dBA)				
Description	Land Use	Daytime	Evening	Night		
Residential - Typical	Residential	60	55	50		
		Equipment				
		Impact	Spec	Actual	Receptor	Estimated
Description		Device	Usage(%)	Lmax (dBA)	Lmax (dBA)	Distance (feet)
All Other Equipment > 5 HP		No	50	85	1875	5
Excavator		No	40		80.7	1875
		Results				
		Calculated (dBA)			Noise Limits (dBA)	
					Day	Evening
Equipment		*Lmax	Leq	Lmax	Leq	Lmax

All Other Equipment > 5 HP	48.5	45.5	N/A	N/A	N/A	N/A
Excavator	44.1	36.1	N/A	N/A	N/A	N/A
Total	48.5	49.5	N/A	N/A	N/A	N/A

\*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 11/5/2019  
Case Description: Valley Generating Station Ph 4E Demo Units 1\_2

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)			Equipment			
		Daytime	Evening	Night	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Motel, Hospital - Nearest	Residential	60	55	50				
Description	Device	Usage(%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)		
All Other Equipment > 5 HP	No	50	85		1100	0		
All Other Equipment > 5 HP	No	50	85		1150	0		
Excavator	No	40		80.7	1250	0		
Front End Loader	No	40		79.1	1400	0		
All Other Equipment > 5 HP	No	50	85		1250	0		
Front End Loader	No	40		79.1	1400	0		
Front End Loader	No	40		79.1	1500	0		

Results

Equipment	Calculated (dBA)		Noise Limits (dBA)			
	*Lmax	Leq	Day Lmax	Leq	Evening Lmax	Leq
All Other Equipment > 5 HP	58.2	55.1	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	57.8	54.8	N/A	N/A	N/A	N/A
Excavator	52.8	48.8	N/A	N/A	N/A	N/A
Front End Loader	50.2	46.2	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	57	54	N/A	N/A	N/A	N/A
Front End Loader	50.2	46.2	N/A	N/A	N/A	N/A
Front End Loader	49.6	45.6	N/A	N/A	N/A	N/A
Total	58.2	60.3	N/A	N/A	N/A	N/A

\*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Description	Land Use	Baselines (dBA)			Equipment			
		Daytime	Evening	Night	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Motel, Hospital - Typical	Residential	60	55	50				
Description	Device	Usage(%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)		
All Other Equipment > 5 HP	No	50	85		1775	0		
All Other Equipment > 5 HP	No	50	85		1775	0		

Excavator	No	40	80.7	1775	0
Front End Loader	No	40	79.1	1775	0
All Other Equipment > 5 HP	No	50	85	1775	0
Front End Loader	No	40	79.1	1775	0
Front End Loader	No	40	79.1	1775	0

Equipment	Results					
	Calculated (dBA)			Noise Limits (dBA)		
	Day			Evening		
*Lmax	Leq	Lmax	Leq	Lmax	Leq	
All Other Equipment > 5 HP	54	51	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	54	51	N/A	N/A	N/A	N/A
Excavator	49.7	45.7	N/A	N/A	N/A	N/A
Front End Loader	48.1	44.1	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	54	51	N/A	N/A	N/A	N/A
Front End Loader	48.1	44.1	N/A	N/A	N/A	N/A
Front End Loader	48.1	44.1	N/A	N/A	N/A	N/A
Total	54	56.9	N/A	N/A	N/A	N/A

\*Calculated Lmax is the Loudest value.

---- Receptor #3 ----

Description	Land Use	Baselines (dBA)			Equipment					
		Daytime	Evening	Night	Impact Device	Usage(%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Residential - Nearest	Residential	60	55	50	No	50	85	85	1200	5
All Other Equipment > 5 HP					No	50	85	85	1250	5
Excavator					No	40	80.7	80.7	1300	5
Front End Loader					No	40	79.1	79.1	1500	5
All Other Equipment > 5 HP					No	50	85	85	1700	5
Front End Loader					No	40	79.1	79.1	1800	5
Front End Loader					No	40	79.1	79.1	1400	5

Equipment	Results					
	Calculated (dBA)			Noise Limits (dBA)		
	Day			Evening		
*Lmax	Leq	Lmax	Leq	Lmax	Leq	
All Other Equipment > 5 HP	52.4	49.4	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	52	49	N/A	N/A	N/A	N/A
Excavator	47.4	43.4	N/A	N/A	N/A	N/A
Front End Loader	44.6	40.6	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	49.4	46.4	N/A	N/A	N/A	N/A
Front End Loader	43	39	N/A	N/A	N/A	N/A
Front End Loader	45.2	41.2	N/A	N/A	N/A	N/A
Total	52.4	54.2	N/A	N/A	N/A	N/A

\*Calculated Lmax is the Loudest value.

---- Receptor #4 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Residential - Typical	Residential	60	55	50

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
			No	50		
All Other Equipment > 5 HP	No	50	85	1875	5	
Excavator	No	40		80.7	1875	5
Front End Loader	No	40		79.1	1875	5
All Other Equipment > 5 HP	No	50	85	1875	5	
Front End Loader	No	40		79.1	1875	5
Front End Loader	No	40		79.1	1875	5

Equipment	Results					
	Calculated (dBA)			Noise Limits (dBA)		
	*Lmax	Leq	Day Lmax	Leq	Evening Lmax	Leq
All Other Equipment > 5 HP	48.5	45.5	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	48.5	45.5	N/A	N/A	N/A	N/A
Excavator	44.2	40.2	N/A	N/A	N/A	N/A
Front End Loader	42.6	38.6	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	48.5	45.5	N/A	N/A	N/A	N/A
Front End Loader	42.6	38.6	N/A	N/A	N/A	N/A
Front End Loader	42.6	38.6	N/A	N/A	N/A	N/A
Total	48.5	51.4	N/A	N/A	N/A	N/A

\*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 11/5/2019  
Case Description: Valley Generating Station Ph 4F Demo Units 3\_4

		---- Receptor #1 ----		
Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Motel, Hospital - Nearest	Residential	60	55	50

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
			No	50		
All Other Equipment > 5 HP	No	50	85	1550	0	
Crane	No	16		80.6	1550	0
Crane	No	16		80.6	1700	0
Front End Loader	No	40		79.1	1600	0
Front End Loader	No	40		79.1	1800	0
All Other Equipment > 5 HP	No	50	85	1600	0	
All Other Equipment > 5 HP	No	50	85	1700	0	
Front End Loader	No	40		79.1	1650	0
Front End Loader	No	40		79.1	1550	0

Equipment	Results					
	Calculated (dBA)			Noise Limits (dBA)		
	*Lmax	Leq	Day Lmax	Leq	Evening Lmax	Leq
All Other Equipment > 5 HP	55.5	52.4	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	55.2	52.2	N/A	N/A	N/A	N/A
Crane	50.7	42.8	N/A	N/A	N/A	N/A
Crane	49.9	42	N/A	N/A	N/A	N/A
Front End Loader	49	45	N/A	N/A	N/A	N/A
Front End Loader	48	44	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	54.9	51.9	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	54.4	51.4	N/A	N/A	N/A	N/A
Front End Loader	48.7	44.8	N/A	N/A	N/A	N/A
Front End Loader	49.3	45.3	N/A	N/A	N/A	N/A
Total	55.5	59	N/A	N/A	N/A	N/A

\*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Description	Land Use	Baselines (dBA)			Equipment			
		Daytime	Evening	Night	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Motel, Hospital - Typical	Residential	60	55	50				
Description		Impact Device	Usage(%)					
All Other Equipment > 5 HP		No	50		85		1775	0
All Other Equipment > 5 HP		No	50		85		1775	0
Crane		No	16			80.6	1775	0
Crane		No	16			80.6	1775	0
Front End Loader		No	40			79.1	1775	0
Front End Loader		No	40			79.1	1775	0
All Other Equipment > 5 HP		No	50		85		1775	0
All Other Equipment > 5 HP		No	50		85		1775	0
Front End Loader		No	40			79.1	1775	0
Front End Loader		No	40			79.1	1775	0

Equipment	Results					
	Calculated (dBA)			Noise Limits (dBA)		
	*Lmax	Leq	Day Lmax	Leq	Evening Lmax	Leq
All Other Equipment > 5 HP	54	51	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	54	51	N/A	N/A	N/A	N/A
Crane	49.5	41.6	N/A	N/A	N/A	N/A
Crane	49.5	41.6	N/A	N/A	N/A	N/A
Front End Loader	48.1	44.1	N/A	N/A	N/A	N/A
Front End Loader	48.1	44.1	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	54	51	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	54	51	N/A	N/A	N/A	N/A
Front End Loader	48.1	44.1	N/A	N/A	N/A	N/A
Front End Loader	48.1	44.1	N/A	N/A	N/A	N/A
Total	54	58	N/A	N/A	N/A	N/A

\*Calculated Lmax is the Loudest value.



		---- Receptor #3 ----					
Description	Land Use	Baselines (dBA)					
		Daytime	Evening	Night			
Residential - Nearest	Residential	60	55	50			
		Equipment					
Description	Impact	Device	Usage(%)	Spec	Actual	Receptor	Estimated
				Lmax (dBA)	Lmax (dBA)	Distance (feet)	Shielding (dBA)
All Other Equipment > 5 HP	No		50	85		1500	5
All Other Equipment > 5 HP	No		50	85		1550	5
Crane	No		16		80.6	1600	5
Crane	No		16		80.6	1650	5
Front End Loader	No		40		79.1	1700	5
Front End Loader	No		40		79.1	1800	5
All Other Equipment > 5 HP	No		50	85		1600	5
All Other Equipment > 5 HP	No		50	85		1700	5
Front End Loader	No		40		79.1	1650	5
Front End Loader	No		40		79.1	1550	5

		Results					
		Calculated (dBA)			Noise Limits (dBA)		
				Day	Evening		
Equipment	Impact	*Lmax	Leq	Lmax	Leq	Lmax	Leq
All Other Equipment > 5 HP	No	50.5	47.4	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	No	50.2	47.2	N/A	N/A	N/A	N/A
Crane	No	45.4	37.5	N/A	N/A	N/A	N/A
Crane	No	45.2	37.2	N/A	N/A	N/A	N/A
Front End Loader	No	43.5	39.5	N/A	N/A	N/A	N/A
Front End Loader	No	43	39	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	No	49.9	46.9	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	No	49.4	46.4	N/A	N/A	N/A	N/A
Front End Loader	No	43.7	39.8	N/A	N/A	N/A	N/A
Front End Loader	No	44.3	40.3	N/A	N/A	N/A	N/A
	Total	50.5	53.9	N/A	N/A	N/A	N/A

\*Calculated Lmax is the Loudest value.

		---- Receptor #4 ----					
Description	Land Use	Baselines (dBA)					
		Daytime	Evening	Night			
Residential - Typical	Residential	60	55	50			
		Equipment					
Description	Impact	Device	Usage(%)	Spec	Actual	Receptor	Estimated
				Lmax (dBA)	Lmax (dBA)	Distance (feet)	Shielding (dBA)
All Other Equipment > 5 HP	No		50	85		1875	5
All Other Equipment > 5 HP	No		50	85		1875	5
Crane	No		16		80.6	1875	5
Crane	No		16		80.6	1875	5
Front End Loader	No		40		79.1	1875	5
Front End Loader	No		40		79.1	1875	5
All Other Equipment > 5 HP	No		50	85		1875	5
All Other Equipment > 5 HP	No		50	85		1875	5
Front End Loader	No		40		79.1	1875	5



Description	Impact Device	Usage(%)	Spec	Actual	Receptor	Estimated
			Lmax (dBA)	Lmax (dBA)	Distance (feet)	Shielding (dBA)
All Other Equipment > 5 HP	No	50	85		1775	0
Excavator	No	40		80.7	1775	0

Equipment	Results					
	Calculated (dBA)			Noise Limits (dBA)		
	Day			Evening		
*Lmax	Leq	Lmax	Leq	Lmax	Leq	
All Other Equipment > 5 HP	54	51	N/A	N/A	N/A	N/A
Excavator	49.7	45.7	N/A	N/A	N/A	N/A
Total	54	52.1	N/A	N/A	N/A	N/A

\*Calculated Lmax is the Loudest value.

---- Receptor #3 ----

Description	Land Use	Baselines (dBA)			Equipment	Receptor	Estimated
		Daytime	Evening	Night			
Residential - Nearest	Residential	60	55	50			

Description	Impact Device	Usage(%)	Spec	Actual	Receptor	Estimated
			Lmax (dBA)	Lmax (dBA)	Distance (feet)	Shielding (dBA)
All Other Equipment > 5 HP	No	50	85		1500	5
Excavator	No	40		80.7	1550	5

Equipment	Results					
	Calculated (dBA)			Noise Limits (dBA)		
	Day			Evening		
*Lmax	Leq	Lmax	Leq	Lmax	Leq	
All Other Equipment > 5 HP	50.5	47.4	N/A	N/A	N/A	N/A
Excavator	45.9	41.9	N/A	N/A	N/A	N/A
Total	50.5	48.5	N/A	N/A	N/A	N/A

\*Calculated Lmax is the Loudest value.

---- Receptor #4 ----

Description	Land Use	Baselines (dBA)			Equipment	Receptor	Estimated
		Daytime	Evening	Night			
Residential - Typical	Residential	60	55	50			

Description	Impact Device	Usage(%)	Spec	Actual	Receptor	Estimated
			Lmax (dBA)	Lmax (dBA)	Distance (feet)	Shielding (dBA)
All Other Equipment > 5 HP	No	50	85		1875	5
Excavator	No	40		80.7	1875	5

Equipment	Results					
	Calculated (dBA)			Noise Limits (dBA)		
	Day			Evening		
*Lmax	Leq	Lmax	Leq	Lmax	Leq	
All Other Equipment > 5 HP	48.5	45.5	N/A	N/A	N/A	N/A
Excavator	44.2	40.2	N/A	N/A	N/A	N/A
Total	48.5	46.6	N/A	N/A	N/A	N/A

\*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 11/7/2019  
 Case Description: Valley Generating Station Ph 4H Demo Units 3\_4

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)			Equipment				
		Daytime	Evening	Night	Impact Device	Usage(%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)
Motel, Hospital - Nearest	Residential	60	55	50	No	50	85	1500	0
All Other Equipment > 5 HP					No	50	85	1550	0
Excavator					No	40	80.7	1600	0
Front End Loader					No	40	79.1	1650	0
All Other Equipment > 5 HP					No	50	85	1700	0
Front End Loader					No	40	79.1	1550	0

Results

Equipment	Calculated (dBA)		Noise Limits (dBA)			
	*Lmax	Leq	Day		Evening	
			Lmax	Leq	Lmax	Leq
All Other Equipment > 5 HP	55.5	52.4	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	55.2	52.2	N/A	N/A	N/A	N/A
Excavator	50.6	46.6	N/A	N/A	N/A	N/A
Front End Loader	48.7	44.8	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	54.4	51.4	N/A	N/A	N/A	N/A
Front End Loader	49.3	45.3	N/A	N/A	N/A	N/A
Total	55.5	57.7	N/A	N/A	N/A	N/A

\*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Description	Land Use	Baselines (dBA)			Equipment				
		Daytime	Evening	Night	Impact Device	Usage(%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)
Motel, Hospital - Typical	Residential	60	55	50	No	50	85	1775	0
All Other Equipment > 5 HP					No	50	85	1775	0
Excavator					No	40	80.7	1775	0
Front End Loader					No	40	79.1	1775	0
All Other Equipment > 5 HP					No	50	85	1775	0
Front End Loader					No	40	79.1	1775	0

Equipment	Results					
	Calculated (dBA)			Noise Limits (dBA)		
	*Lmax	Leq	Day	Leq	Evening	Leq
All Other Equipment > 5 HP	54	51	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	54	51	N/A	N/A	N/A	N/A
Excavator	49.7	45.7	N/A	N/A	N/A	N/A
Front End Loader	48.1	44.1	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	54	51	N/A	N/A	N/A	N/A
Front End Loader	48.1	44.1	N/A	N/A	N/A	N/A
Total	54	56.7	N/A	N/A	N/A	N/A

\*Calculated Lmax is the Loudest value.

---- Receptor #3 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Residential - Nearest	Residential	60	55	50

Description	Impact Device	Usage(%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
All Other Equipment > 5 HP	No	50	85		1500	5
All Other Equipment > 5 HP	No	50	85		1550	5
Excavator	No	40		80.7	1650	5
Front End Loader	No	40		79.1	1700	5
All Other Equipment > 5 HP	No	50	85		1550	5
Front End Loader	No	40		79.1	1800	5

Equipment	Results					
	Calculated (dBA)			Noise Limits (dBA)		
	*Lmax	Leq	Day	Leq	Evening	Leq
All Other Equipment > 5 HP	50.5	47.4	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	50.2	47.2	N/A	N/A	N/A	N/A
Excavator	45.3	41.4	N/A	N/A	N/A	N/A
Front End Loader	43.5	39.5	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	50.2	47.2	N/A	N/A	N/A	N/A
Front End Loader	43	39	N/A	N/A	N/A	N/A
Total	50.5	52.8	N/A	N/A	N/A	N/A

\*Calculated Lmax is the Loudest value.

---- Receptor #4 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Residential - Typical	Residential	60	55	50

Description	Impact Device	Usage(%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
All Other Equipment > 5 HP	No	50	85		1875	5
All Other Equipment > 5 HP	No	50	85		1875	5
Excavator	No	40		80.7	1875	5
Front End Loader	No	40		79.1	1875	5

All Other Equipment > 5 HP	No	50	85	1875	5
Front End Loader	No	40	79.1	1875	5

Equipment	Results					
	Calculated (dBA)			Noise Limits (dBA)		
	*Lmax	Leq	Day	Leq	Evening	
Lmax			Lmax		Leq	
All Other Equipment > 5 HP	48.5	45.5	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	48.5	45.5	N/A	N/A	N/A	N/A
Excavator	44.2	40.2	N/A	N/A	N/A	N/A
Front End Loader	42.6	38.6	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	48.5	45.5	N/A	N/A	N/A	N/A
Front End Loader	42.6	38.6	N/A	N/A	N/A	N/A
Total	48.5	51.2	N/A	N/A	N/A	N/A

\*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 11/6/2019  
Case Description: Valley Generating Station Ph 4I Demo Units 3\_4

		Baselines (dBA)			Equipment			
Description	Land Use	Daytime	Evening	Night	Spec	Actual	Receptor	Estimated
		Impact	Usage(%)	(dBA)	Lmax	Lmax	Distance	Shielding
		Device			(dBA)	(dBA)	(feet)	(dBA)
Motel, Hospital - Nearest	Residential		60	55	50			
All Other Equipment > 5 HP		No	50	85			1500	0
Crane		No	16			80.6	1550	0
Front End Loader		No	40			79.1	1650	0
All Other Equipment > 5 HP		No	50	85			1700	0
Front End Loader		No	40			79.1	1550	0

Equipment	Results					
	Calculated (dBA)			Noise Limits (dBA)		
	*Lmax	Leq	Day	Leq	Evening	
Lmax			Lmax		Leq	
All Other Equipment > 5 HP	55.5	52.4	N/A	N/A	N/A	N/A
Crane	50.7	42.8	N/A	N/A	N/A	N/A
Front End Loader	48.7	44.8	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	54.4	51.4	N/A	N/A	N/A	N/A
Front End Loader	49.3	45.3	N/A	N/A	N/A	N/A
Total	55.5	56	N/A	N/A	N/A	N/A

\*Calculated Lmax is the Loudest value.

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Motel, Hospital - Typical	Residential	60	55	50

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
			All Other Equipment > 5 HP	No		
Crane	No	16		80.6	1775	0
Front End Loader	No	40		79.1	1775	0
All Other Equipment > 5 HP	No	50	85		1775	0
Front End Loader	No	40		79.1	1775	0

Equipment	Results					
	Calculated (dBA)			Noise Limits (dBA)		
	*Lmax	Leq	Day Lmax	Leq	Evening Lmax	Leq
All Other Equipment > 5 HP	54	51	N/A	N/A	N/A	N/A
Crane	49.5	41.6	N/A	N/A	N/A	N/A
Front End Loader	48.1	44.1	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	54	51	N/A	N/A	N/A	N/A
Front End Loader	48.1	44.1	N/A	N/A	N/A	N/A
<b>Total</b>	<b>54</b>	<b>55</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>

\*Calculated Lmax is the Loudest value.

---- Receptor #3 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Residential - Nearest	Residential	60	55	50

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
			All Other Equipment > 5 HP	No		
Crane	No	16		80.6	1550	5
Front End Loader	No	40		79.1	1700	5
All Other Equipment > 5 HP	No	50	85		1550	5
Front End Loader	No	40		79.1	1800	5

Equipment	Results					
	Calculated (dBA)			Noise Limits (dBA)		
	*Lmax	Leq	Day Lmax	Leq	Evening Lmax	Leq
All Other Equipment > 5 HP	50.5	47.4	N/A	N/A	N/A	N/A
Crane	45.7	37.8	N/A	N/A	N/A	N/A
Front End Loader	43.5	39.5	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	50.2	47.2	N/A	N/A	N/A	N/A
Front End Loader	43	39	N/A	N/A	N/A	N/A
<b>Total</b>	<b>50.5</b>	<b>51.2</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>

\*Calculated Lmax is the Loudest value.

---- Receptor #4 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Residential - Typical	Residential	60	55	50

Equipment

Description	Impact Device	Usage(%)	Spec	Actual	Receptor	Estimated
			Lmax (dBA)	Lmax (dBA)	Distance (feet)	Shielding (dBA)
All Other Equipment > 5 HP	No	50	85		1875	5
Crane	No	16		80.6	1875	5
Front End Loader	No	40		79.1	1875	5
All Other Equipment > 5 HP	No	50	85		1875	5
Front End Loader	No	40		79.1	1875	5

Equipment	Results					
	Calculated (dBA)			Noise Limits (dBA)		
	*Lmax	Leq	Day	Leq	Evening	
Lmax			Lmax		Leq	
All Other Equipment > 5 HP	48.5	45.5	N/A	N/A	N/A	N/A
Crane	44.1	36.1	N/A	N/A	N/A	N/A
Front End Loader	42.6	38.6	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	48.5	45.5	N/A	N/A	N/A	N/A
Front End Loader	42.6	38.6	N/A	N/A	N/A	N/A
Total	48.5	49.5	N/A	N/A	N/A	N/A

\*Calculated Lmax is the Loudest value.

#### Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 11/5/2019  
Case Description: Valley Generating Station Ph 4J Demo Units 3\_4

		---- Receptor #1 ----				
		Baselines (dBA)				
Description	Land Use	Daytime	Evening	Night		
Motel, Hospital - Nearest	Residential	60	55	50		
		Equipment				
Description	Impact Device	Usage(%)	Spec	Actual	Receptor	Estimated
			Lmax (dBA)	Lmax (dBA)	Distance (feet)	Shielding (dBA)
All Other Equipment > 5 HP	No	50	85		1500	0
Excavator	No	40		80.7	1550	0
		Results				
		Calculated (dBA)			Noise Limits (dBA)	
Equipment	*Lmax	Leq	Day	Leq	Evening	
			Lmax		Lmax	Leq
All Other Equipment > 5 HP	55.5	52.4	N/A	N/A	N/A	N/A
Excavator	50.9	46.9	N/A	N/A	N/A	N/A
Total	55.5	53.5	N/A	N/A	N/A	N/A

\*Calculated Lmax is the Loudest value.

		---- Receptor #2 ----		
		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Motel, Hospital - Typical	Residential	60	55	50



Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
All Other Equipment > 5 HP	No	50	85		1775	0
Excavator	No	40		80.7	1775	0

Equipment	Calculated (dBA)		Noise Limits (dBA)			
	*Lmax	Leq	Day		Evening	
			Lmax	Leq	Lmax	Leq
All Other Equipment > 5 HP	54	51	N/A	N/A	N/A	N/A
Excavator	49.7	45.7	N/A	N/A	N/A	N/A
<b>Total</b>	<b>54</b>	<b>52.1</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>

\*Calculated Lmax is the Loudest value.

---- Receptor #3 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Residential - Nearest	Residential	60	55	50

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
All Other Equipment > 5 HP	No	50	85		1500	5
Excavator	No	40		80.7	1550	5

Equipment	Calculated (dBA)		Noise Limits (dBA)			
	*Lmax	Leq	Day		Evening	
			Lmax	Leq	Lmax	Leq
All Other Equipment > 5 HP	50.5	47.4	N/A	N/A	N/A	N/A
Excavator	45.9	41.9	N/A	N/A	N/A	N/A
<b>Total</b>	<b>50.5</b>	<b>48.5</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>

\*Calculated Lmax is the Loudest value.

---- Receptor #4 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Residential - Typical	Residential	60	55	50

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
All Other Equipment > 5 HP	No	50	85		1875	5
Excavator	No	40		80.7	1875	5

Equipment	Calculated (dBA)		Noise Limits (dBA)			
	*Lmax	Leq	Day		Evening	
			Lmax	Leq	Lmax	Leq
All Other Equipment > 5 HP	48.5	45.5	N/A	N/A	N/A	N/A

Excavator		44.2	40.2	N/A	N/A	N/A	N/A
	Total	48.5	46.6	N/A	N/A	N/A	N/A

\*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 11/6/2019  
Case Description: Valley Generating Station Ph 5A Demo Units 1-4

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)			Equipment					
		Daytime	Evening	Night	Impact Device	Usage(%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Motel, Hospital - Nearest	Residential	60	55	50	No	40		80.7	1100	0
					No	50	85		1150	0
					No	40		79.1	1400	0

Results

Equipment	Calculated (dBA)		Noise Limits (dBA)			
	*Lmax	Leq	Day Lmax	Leq	Evening Lmax	Leq
Excavator	53.9	49.9	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	57.8	54.8	N/A	N/A	N/A	N/A
Front End Loader	50.2	46.2	N/A	N/A	N/A	N/A
Total	57.8	56.4	N/A	N/A	N/A	N/A

\*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Description	Land Use	Baselines (dBA)			Equipment					
		Daytime	Evening	Night	Impact Device	Usage(%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Motel, Hospital - Typical	Residential	60	55	50	No	40		80.7	1775	0
					No	50	85		1775	0
					No	40		79.1	1775	0

Results

Equipment	Calculated (dBA)		Noise Limits (dBA)			
	*Lmax	Leq	Day Lmax	Leq	Evening Lmax	Leq
Excavator	49.7	45.7	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	54	51	N/A	N/A	N/A	N/A

Front End Loader		48.1	44.1	N/A	N/A	N/A	N/A
	Total	54	52.8	N/A	N/A	N/A	N/A

\*Calculated Lmax is the Loudest value.

---- Receptor #3 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Residential - Nearest	Residential	60	55	50

		Equipment				
		Spec	Actual	Receptor	Estimated	
Description	Impact Device	Lmax (dBA)	Lmax (dBA)	Distance (feet)	Shielding (dBA)	
Excavator	No	40		80.7	1200	5
All Other Equipment > 5 HP	No	50	85		1250	5
Front End Loader	No	40		79.1	1500	5

		Results					
		Calculated (dBA)		Noise Limits (dBA)			
				Day		Evening	
Equipment		*Lmax	Leq	Lmax	Leq	Lmax	Leq
Excavator		48.1		44.1	N/A	N/A	N/A
All Other Equipment > 5 HP		52		49	N/A	N/A	N/A
Front End Loader		44.6		40.6	N/A	N/A	N/A
	Total	52		50.7	N/A	N/A	N/A

\*Calculated Lmax is the Loudest value.

---- Receptor #4 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Residential - Typical	Residential	60	55	50

		Equipment				
		Spec	Actual	Receptor	Estimated	
Description	Impact Device	Lmax (dBA)	Lmax (dBA)	Distance (feet)	Shielding (dBA)	
Excavator	No	40		80.7	1875	5
All Other Equipment > 5 HP	No	50	85		1875	5
Front End Loader	No	40		79.1	1875	5

		Results					
		Calculated (dBA)		Noise Limits (dBA)			
				Day		Evening	
Equipment		*Lmax	Leq	Lmax	Leq	Lmax	Leq
Excavator		44.2		40.2	N/A	N/A	N/A
All Other Equipment > 5 HP		48.5		45.5	N/A	N/A	N/A
Front End Loader		42.6		38.6	N/A	N/A	N/A
	Total	48.5		47.3	N/A	N/A	N/A

\*Calculated Lmax is the Loudest value.

Report date:  
Case Description:

11/5/2019  
Valley Generating Station Ph 5B Demo Units 1-4

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)			Receptor Distance (feet)	Estimated Shielding (dBA)
		Daytime	Evening	Night		
Motel, Hospital - Nearest	Residential	60	55	50		

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
All Other Equipment > 5 HP	No	50	85		1500	0
All Other Equipment > 5 HP	No	50	85		1550	0
Front End Loader	No	40		79.1	1600	0

Results

Equipment	Calculated (dBA)		Noise Limits (dBA)			
	*Lmax	Leq	Day		Evening	
			Lmax	Leq	Lmax	Leq
All Other Equipment > 5 HP	55.5	52.4	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	55.2	52.2	N/A	N/A	N/A	N/A
Front End Loader	49	45	N/A	N/A	N/A	N/A
<b>Total</b>	<b>55.5</b>	<b>55.7</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>

\*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Description	Land Use	Baselines (dBA)			Receptor Distance (feet)	Estimated Shielding (dBA)
		Daytime	Evening	Night		
Motel, Hospital - Typical	Residential	60	55	50		

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
All Other Equipment > 5 HP	No	50	85		1775	0
All Other Equipment > 5 HP	No	50	85		1775	0
Front End Loader	No	40		79.1	1775	0

Results

Equipment	Calculated (dBA)		Noise Limits (dBA)			
	*Lmax	Leq	Day		Evening	
			Lmax	Leq	Lmax	Leq
All Other Equipment > 5 HP	54	51	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	54	51	N/A	N/A	N/A	N/A
Front End Loader	48.1	44.1	N/A	N/A	N/A	N/A
<b>Total</b>	<b>54</b>	<b>54.4</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>

\*Calculated Lmax is the Loudest value.

---- Receptor #3 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Residential - Nearest	Residential	60	55	50

Equipment	
-----------	--

Description	Impact Device	Usage(%)	Spec	Actual	Receptor	Estimated
			Lmax (dBA)	Lmax (dBA)	Distance (feet)	Shielding (dBA)
All Other Equipment > 5 HP	No	50	85		1500	5
All Other Equipment > 5 HP	No	50	85		1550	5
Front End Loader	No	40		79.1	1600	5

Equipment	Results					
	Calculated (dBA)			Noise Limits (dBA)		
	*Lmax	Leq	Day Lmax	Leq	Evening Lmax	Leq
All Other Equipment > 5 HP	50.5	47.4	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	50.2	47.2	N/A	N/A	N/A	N/A
Front End Loader	44	40	N/A	N/A	N/A	N/A
<b>Total</b>	<b>50.5</b>	<b>50.7</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>

\*Calculated Lmax is the Loudest value.

---- Receptor #4 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Residential - Typical	Residential	60	55	50

Description	Impact Device	Usage(%)	Equipment Spec	Actual	Receptor	Estimated
			Lmax (dBA)	Lmax (dBA)	Distance (feet)	Shielding (dBA)
All Other Equipment > 5 HP	No	50	85		1875	5
All Other Equipment > 5 HP	No	50	85		1875	5
Front End Loader	No	40		79.1	1875	5

Equipment	Results					
	Calculated (dBA)			Noise Limits (dBA)		
	*Lmax	Leq	Day Lmax	Leq	Evening Lmax	Leq
All Other Equipment > 5 HP	48.5	45.5	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	48.5	45.5	N/A	N/A	N/A	N/A
Front End Loader	42.6	38.6	N/A	N/A	N/A	N/A
<b>Total</b>	<b>48.5</b>	<b>48.9</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>

\*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 11/5/2019  
Case Description: Valley Generating Station Ph 5C Demo Units 3\_4

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Motel, Hospital - Nearest	Residential	60	55	50

Equipment	Impact Device	Usage(%)	Equipment Spec	Actual	Receptor	Estimated
			Lmax (dBA)	Lmax (dBA)	Distance (feet)	Shielding (dBA)

Description	Impact Device	Usage(%)	Lmax (dBA)	Lmax (dBA)	Distance (feet)	Shielding (dBA)
All Other Equipment > 5 HP	No	50	85		1100	0
All Other Equipment > 5 HP	No	50	85		1200	0
Front End Loader	No	40		79.1	1150	0

Equipment	Results					
	Calculated (dBA)			Noise Limits (dBA)		
	Day			Evening		
*Lmax	Leq	Lmax	Leq	Lmax	Leq	
All Other Equipment > 5 HP	58.2	55.1	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	57.4	54.4	N/A	N/A	N/A	N/A
Front End Loader	51.9	47.9	N/A	N/A	N/A	N/A
Total	58.2	58.2	N/A	N/A	N/A	N/A

\*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Motel, Hospital - Typical	Residential	60	55	50

Description	Impact Device	Usage(%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
			All Other Equipment > 5 HP	No	50	85
All Other Equipment > 5 HP	No	50	85	1775	0	
Front End Loader	No	40		79.1	1775	0

Equipment	Results					
	Calculated (dBA)			Noise Limits (dBA)		
	Day			Evening		
*Lmax	Leq	Lmax	Leq	Lmax	Leq	
All Other Equipment > 5 HP	54	51	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	54	51	N/A	N/A	N/A	N/A
Front End Loader	48.1	44.1	N/A	N/A	N/A	N/A
Total	54	54.4	N/A	N/A	N/A	N/A

\*Calculated Lmax is the Loudest value.

---- Receptor #3 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Residential - Nearest	Residential	60	55	50

Description	Impact Device	Usage(%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
			All Other Equipment > 5 HP	No	50	85
All Other Equipment > 5 HP	No	50	85	1250	5	
Front End Loader	No	40		79.1	1300	5

Equipment	Results					
	Calculated (dBA)			Noise Limits (dBA)		
	Day			Evening		
*Lmax	Leq	Lmax	Leq	Lmax	Leq	
All Other Equipment > 5 HP	54	51	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	54	51	N/A	N/A	N/A	N/A
Front End Loader	48.1	44.1	N/A	N/A	N/A	N/A
Total	54	54.4	N/A	N/A	N/A	N/A

\*Calculated Lmax is the Loudest value.

Equipment		*Lmax	Leq	Lmax	Leq	Lmax	Leq
All Other Equipment > 5 HP		52.4	49.4	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP		52	49	N/A	N/A	N/A	N/A
Front End Loader		45.8	41.8	N/A	N/A	N/A	N/A
	Total	52.4	52.6	N/A	N/A	N/A	N/A

\*Calculated Lmax is the Loudest value.

---- Receptor #4 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Residential - Typical	Residential	60	55	50

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
All Other Equipment > 5 HP	No	50	85		1875	5
All Other Equipment > 5 HP	No	50	85		1875	5
Front End Loader	No	40		79.1	1875	5

Results

Equipment	Calculated (dBA)	Leq	Noise Limits (dBA)			
			Day		Evening	
	*Lmax	Leq	Lmax	Leq	Lmax	Leq
All Other Equipment > 5 HP	48.5	45.5	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	48.5	45.5	N/A	N/A	N/A	N/A
Front End Loader	42.6	38.6	N/A	N/A	N/A	N/A
	Total	48.5	48.9	N/A	N/A	N/A

\*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 11/7/2019  
Case Description: Valley Generating Station Ph 6 Demo\_Closing

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Motel, Hospital - Nearest	Residential	60	55	50

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Tractor	No	40	84		1100	0
Excavator	No	40		80.7	1200	0
Grader	No	40	85		1150	0
Grader	No	40	85		1400	0
Paver	No	50		77.2	1300	0
Paver	No	50		77.2	1350	0
Concrete Mixer Truck	No	40		78.8	1400	0
Concrete Pump Truck	No	20		81.4	1500	0

Equipment	Results					
	Calculated (dBA)			Noise Limits (dBA)		
	*Lmax	Leq	Day Lmax	Leq	Evening Lmax	Leq
Tractor	57.2	53.2	N/A	N/A	N/A	N/A
Excavator	53.1	49.1	N/A	N/A	N/A	N/A
Grader	57.8	53.8	N/A	N/A	N/A	N/A
Grader	56.1	52.1	N/A	N/A	N/A	N/A
Paver	48.9	45.9	N/A	N/A	N/A	N/A
Paver	48.6	45.6	N/A	N/A	N/A	N/A
Concrete Mixer Truck	49.9	45.9	N/A	N/A	N/A	N/A
Concrete Pump Truck	51.9	44.9	N/A	N/A	N/A	N/A
Total	57.8	59.2	N/A	N/A	N/A	N/A

\*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Motel, Hospital - Typical	Residential	60	55	50

Description	Impact Device	Usage(%)	Equipment			Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	
Tractor	No	40	84		1775	0
Excavator	No	40		80.7	1775	0
Grader	No	40	85		1775	0
Grader	No	40	85		1775	0
Paver	No	50		77.2	1775	0
Paver	No	50		77.2	1775	0
Concrete Mixer Truck	No	40		78.8	1775	0
Concrete Pump Truck	No	20		81.4	1775	0

Equipment	Results					
	Calculated (dBA)			Noise Limits (dBA)		
	*Lmax	Leq	Day Lmax	Leq	Evening Lmax	Leq
Tractor	53	49	N/A	N/A	N/A	N/A
Excavator	49.7	45.7	N/A	N/A	N/A	N/A
Grader	54	50	N/A	N/A	N/A	N/A
Grader	54	50	N/A	N/A	N/A	N/A
Paver	46.2	43.2	N/A	N/A	N/A	N/A
Paver	46.2	43.2	N/A	N/A	N/A	N/A
Concrete Mixer Truck	47.8	43.8	N/A	N/A	N/A	N/A
Concrete Pump Truck	50.4	43.4	N/A	N/A	N/A	N/A
Total	54	56.1	N/A	N/A	N/A	N/A

\*Calculated Lmax is the Loudest value.

---- Receptor #3 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Residential - Nearest	Residential	60	55	50

Equipment



Description	Impact Device	Usage(%)	Spec	Actual	Receptor	Estimated
			Lmax (dBA)	Lmax (dBA)	Distance (feet)	Shielding (dBA)
Tractor	No	40	84		1200	5
Excavator	No	40		80.7	1250	5
Grader	No	40	85		1300	5
Grader	No	40	85		1450	5
Paver	No	50		77.2	1500	5
Paver	No	50		77.2	1700	5
Concrete Mixer Truck	No	40		78.8	1800	5
Concrete Pump Truck	No	20		81.4	1650	5

Equipment	Results					
	Calculated (dBA)			Noise Limits (dBA)		
	*Lmax	Leq	Day Lmax	Leq	Evening Lmax	Leq
Tractor	51.4	47.4	N/A	N/A	N/A	N/A
Excavator	47.8	43.8	N/A	N/A	N/A	N/A
Grader	51.7	47.7	N/A	N/A	N/A	N/A
Grader	50.8	46.8	N/A	N/A	N/A	N/A
Paver	42.7	39.7	N/A	N/A	N/A	N/A
Paver	41.6	38.6	N/A	N/A	N/A	N/A
Concrete Mixer Truck	42.7	38.7	N/A	N/A	N/A	N/A
Concrete Pump Truck	46	39	N/A	N/A	N/A	N/A
<b>Total</b>	<b>51.7</b>	<b>53.4</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>

\*Calculated Lmax is the Loudest value.

		---- Receptor #4 ----		
Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Residential - Typical	Residential	60	55	50

Description	Impact Device	Usage(%)	Equipment	Actual	Receptor	Estimated
			Spec Lmax (dBA)	Lmax (dBA)	Distance (feet)	Shielding (dBA)
Tractor	No	40	84		1875	5
Excavator	No	40		80.7	1875	5
Grader	No	40	85		1875	5
Grader	No	40	85		1875	5
Paver	No	50		77.2	1875	5
Paver	No	50		77.2	1875	5
Concrete Mixer Truck	No	40		78.8	1875	5
Concrete Pump Truck	No	20		81.4	1875	5

Equipment	Results					
	Calculated (dBA)			Noise Limits (dBA)		
	*Lmax	Leq	Day Lmax	Leq	Evening Lmax	Leq
Tractor	47.5	43.5	N/A	N/A	N/A	N/A
Excavator	44.2	40.2	N/A	N/A	N/A	N/A
Grader	48.5	44.5	N/A	N/A	N/A	N/A
Grader	48.5	44.5	N/A	N/A	N/A	N/A
Paver	40.7	37.7	N/A	N/A	N/A	N/A
Paver	40.7	37.7	N/A	N/A	N/A	N/A

Concrete Mixer Truck		42.3	38.3	N/A	N/A	N/A	N/A
Concrete Pump Truck		44.9	37.9	N/A	N/A	N/A	N/A
	Total	48.5	50.6	N/A	N/A	N/A	N/A

\*Calculated Lmax is the Loudest value.