Appendix J

Noise

Appendix J-1

Field Noise Measurement Data Sheets

DUDEK

FIELD NOISE MEASUREMENT DATA

PROJECT OCSD FACILITIES MASTER PLAN PROJECT # 11774
SITE ID
SITE ADDRESS OBSERVER(S) PETE VITAR
START DATE 1/30/20 END DATE 1/20/20
START TIME END TIME

METEOROLOGICAL CONDITIONS
TEMP 73 F HUMIDITY 28 % R.H. WIND CALM (LIGHT) MODERATE
WINDSPD 4 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 # 14031704
CALIBRATOR BSWA CAL14 SERIAL # 48015
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
(ST-1) 7-8	11:26	11:42	53.4	64.9	49.5				

COMMENTS READING TAKEN AT SOUTHERN PROPERTY LINE OF RESIDENCE AT 3201 (ALONG GISLER AVE) IOWA ST; WIND LIGHT TRAFFIC, PRIMARY NOISE SOURCE IS CONSISTENT, AUDIBLE DISTANT GARDENERS, BIRDS, & FAINT CONVERSATIONS ON STREET AND HUM FROM NEARBY RECLAMATION PLANT; ON GOLF COURSE ACROSS FROM MEYER; NO MOTOR VEHICLE TRAFFIC IS ALLOWED ON GISLER AVE, WEST OF IOWA ST.

SOURCE INFO AND TRAFFIC COUNTS
PRIMARY NOISE SOURCE (TRAFFIC) AIRCRAFT RAIL INDUSTRIAL OTHER:
ROADWAY TYPE: AS PAVED DIST. TO RDWY C/L OR (EOP): 8' TO EOP ON GISLER AVE
TRAFFIC COUNT DURATION: 1 MIN SPEED ___ MIN SPEED

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

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 7116; 7117; 7118; 7119; 7120; 7121; 7122; 7123; 7124
OTHER COMMENTS / SKETCH



FIELD NOISE MEASUREMENT DATA

DUDEK

PROJECT OCSD FACILITIES MASTER PLAN PROJECT # 11774
SITE ID
SITE ADDRESS OBSERVER(S) PETE VITAR
START DATE 1/30/20 END DATE 1/30/20
START TIME END TIME

METEOROLOGICAL CONDITIONS
TEMP 73 F HUMIDITY 30 % R.H. WIND CALM (LIGHT) MODERATE
WINDSPD 6 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 # 140317004
CALIBRATOR BSWA CA114 SERIAL # 48015 1
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
(ST-2) 10-11	12:30	12:45	63.5	76.3	50.9				

COMMENTS
READING TAKEN IN FRONT OF 10485 NIGHTINGALE AVE (RESIDENTIAL) ON CUL DE SAC; PRIMARY NOISE SOURCE IS TRAFFIC ON WAND ST TO THE EAST AND BEHIND A SOUND WALL; SOME BUILDING NOISE (OCCASIONAL HAMMERING) FROM NEARBY HOME; GARDENERS IN AREA

SOURCE INFO AND TRAFFIC COUNTS
PRIMARY NOISE SOURCE (TRAFFIC) AIRCRAFT RAIL INDUSTRIAL OTHER: ARE 55' TO C/L ON WAND ST.
ROADWAY TYPE: ASPHALT DIST. TO RDWY C/L EOP
TRAFFIC COUNT DURATION: — MIN SPEED

COUNT 1 (OR RDWY 1) DIRECTION	NB/EB	SB/WB	NB/EB	SB/WB
AUTOS				
MED TRKS				
HVY TRKS				
BUSES				
MOTRCLS				

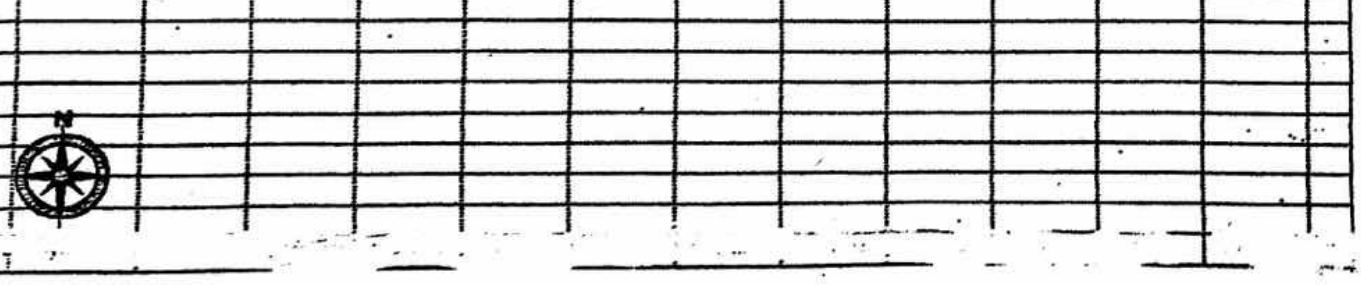
IF COUNTING BOTH DIRECTIONS AS ONE, CHECK HERE

COUNT 2 (OR RDWY 2)	MIN		SPEED	
	NB/EB	SB/WB	NB/EB	SB/WB

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 7126; 7128; 7129; 7131; 7133;
OTHER COMMENTS / SKETCH



FIELD NOISE MEASUREMENT DATA

DUDEK

PROJECT OCSD FACILITIES MSTR PLAN PROJECT # 11774
SITE ID
SITE ADDRESS OBSERVER(S) PETE VITAR
START DATE 1/30/20 END DATE 1/30/20
START TIME END TIME

METEOROLOGICAL CONDITIONS

TEMP 70 F HUMIDITY 34 % R.H. WIND CALM (LIGHT) MODERATE
WINDSPD 3 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 # 140317004
CALIBRATOR BSWA CA114 SERIAL # 48015 1
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
(ST-3) 5-6	10:49	11:04	61.4	71.5	57.2				

COMMENTS
READING TAKEN IN FRONT OF 22201 CAPE MAY LANE (RESIDENTIAL), ON CUL DE SAC; PRIMARY NOISE SOURCE IS TRAFFIC ON BROOKHURST ST. TO THE EAST AND BEHIND SOUND WALL;

SOURCE INFO AND TRAFFIC COUNTS

PRIMARY NOISE SOURCE (TRAFFIC) AIRCRAFT RAIL INDUSTRIAL OTHER:
ROADWAY TYPE: ASPHALT DIST. TO RDWY C/L OF
TRAFFIC COUNT DURATION: — MIN SPEED ___ MIN

COUNT 1 (OR RDWY 1) DIRECTION	NB/EB	SB/WB	NB/EB	SB/WB
AUTOS				
MED TRKS				
HVY TRKS				
BUSES				
MOTRCLS				

IF COUNTING BOTH DIRECTIONS AS ONE, CHECK HERE

COUNT 2 (OR RDWY 2)	NB/EB	SB/WB	NB/EB	SB/WB

APX 80' TO C/L ON BROOKHURST ST.

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 7108; 7109; 7110; 7111; 7112; 7113; 7114;
OTHER COMMENTS / SKETCH



DUDEK

FIELD NOISE MEASUREMENT DATA

PROJECT OCSD FACILITIES MASTER PLAN PROJECT # 11774
SITE ID
SITE ADDRESS OBSERVER(S) PETE VITAR
START DATE 1/30/20 END DATE 1/30/20
START TIME END TIME

METEOROLOGICAL CONDITIONS
TEMP 56 F HUMIDITY 47 % R.H. WIND (CALM) LIGHT MODERATE
WINDSPD MPH DIR. N NE E 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 # 140317004
CALIBRATOR B&K CAL14 SERIAL # 4801S1
CALIBRATION CHECK PRE-TEST dBA SPL POST-TEST dBA SPL WINDSCRN YES

SETTINGS A-WTD (SLOW) FAST FRONTAL RANDOM ANSI OTHER:

(ST-4) REC. #	BEGIN	END	Leq	Lmax	Lmin	L90	L50	L10	OTHER (SPECIFY METRIC
1-2	9:02	9:17	69.4	81.5	54.9				

COMMENTS
READING TAKEN IN FRONT OF 5452 EDINGER AVE (RESIDENCE), JUST SOUTH OF FLOOD CONTROL CHANNEL THAT RUNS ALONG THE WEST SIDE OF GRAHAM ST. PRIMARY NOISE SOURCE IS TRAFFIC ALONG EDINGER AVE, WITH LIMITED TRAFFIC TO THE EAST ON GRAHAM ST.

SOURCE INFO AND TRAFFIC COUNTS
PRIMARY NOISE SOURCE (TRAFFIC) AIRCRAFT RAIL INDUSTRIAL OTHER:
ROADWAY TYPE: ASPHALT DIST. TO RDWY C/L OR (EOP): 22'
TRAFFIC COUNT DURATION: — MIN SPEED — MIN SPEED

COUNT 1 (OR RDWY 1) DIRECTION	NB/EB	SB/WB	NB/EB	SB/WB
AUTOS				
MED TRKS				
HVY TRKS				
BUSES				
MOTRCLS				

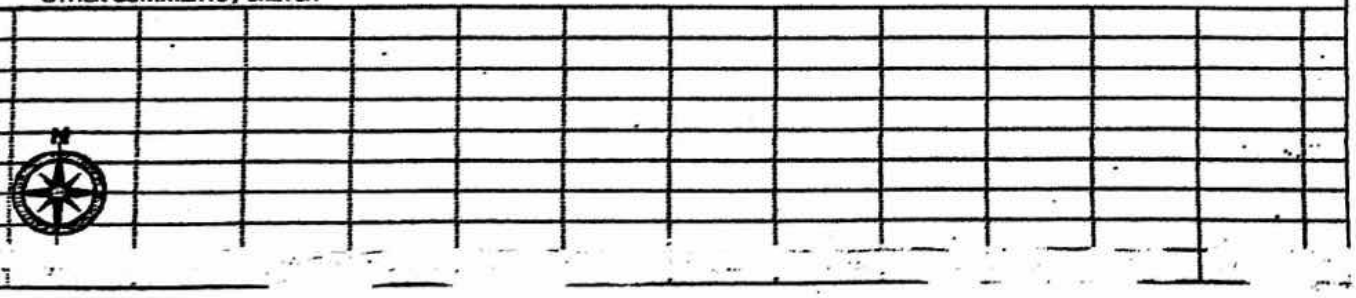
IF COUNTING BOTH DIRECTIONS AS ONE, CHECK HERE —

COUNT 2 (OR RDWY 2)	NB/EB	SB/WB	NB/EB	SB/WB

SPEEDS ESTIMATED BY: RADAR / DRIVING THE PACE
POSTED SPEED LIMIT SIGNS SAY: 40 MPH

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: DISTANT TRAIN HORN;

DESCRIPTION / SKETCH
TERRAIN HARD SOFT (MIXED) FLAT OTHER:
PHOTOS 7089; 7090; 7091; 7092; 7093; 7094; 7095; 7096; 7098;
OTHER COMMENTS / SKETCH



DUDEK

FIELD NOISE MEASUREMENT DATA

PROJECT: OCSD FACILITIES MASTER PLAN — PROJECT #: 11774
SITE ID:
SITE ADDRESS: — OBSERVER(S): PETE VITAR
START DATE: 1/30/20 — END DATE: 1/20/20
START TIME: — END TIME:

METEOROLOGICAL CONDITIONS

TEMP: 72 F — HUMIDITY: 25 % R.H. — WIND: CALM (LIGHT) MODERATE
WINDSPD: 9 MPH — DIR. N NE E 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 #: 14031004
CALIBRATOR: B&KA CAL14 — SERIAL #: 4801511
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
(ST-5) 14-15	14:41	14:56	66.4	76.8	51.1				

COMMENTS: READING TAKEN IN FRONT OF 406 S. SULLIVAN ST. (RESIDENTIAL); PRIMARY NOISE SOURCE IS TRAFFIC ON S. SULLIVAN ST.; SOME NOISE FROM STUDENTS AT ELEMENTARY SCHOOL ACROSS STREET;

SOURCE INFO AND TRAFFIC COUNTS

PRIMARY NOISE SOURCE: (TRAFFIC) AIRCRAFT RAIL INDUSTRIAL OTHER:
ROADWAY TYPE: ASPHALT — DIST. TO RDWY C/L OR (EOP): 25'
TRAFFIC COUNT DURATION: — MIN — SPEED — ___ MIN — SPEED

COUNT 1 (OR RDWY 1) DIRECTION	NB/EB	SB/WB	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
AUTOS									
MED TRKS									
HVY TRKS									
BUSES									
MOTRCLS									

SPEEDS ESTIMATED BY: RADAR / DRIVING THE PACE
POSTED SPEED LIMIT SIGNS SAY: 25 MPH

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 7143; 7144; 7145; 7146; 7147; 7148;
OTHER COMMENTS / SKETCH



DUDEK

FIELD NOISE MEASUREMENT DATA

PROJECT OCSD FACILITIES MASTER PLAN PROJECT # 11774
SITE ID
SITE ADDRESS OBSERVER(S) PETE VITAR
START DATE 1/30/20 END DATE 1/20/20
START TIME END TIME

METEOROLOGICAL CONDITIONS
TEMP 72 F HUMIDITY 27 % R.H. WIND CALM (LIGHT) MODERATE
WINDSPD 7 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 # 140317004
CALIBRATOR BSWA CA114 SERIAL # 48015
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
(5-6) 16-17	15:33	15:48	67.3	81.3	53.3				

COMMENTS
READ TAKEN IN FRONT OF 17502 RAINIER DR. (RESIDENTIAL); PRIMARY NOISE SOURCE IS TRAFFIC ON YORBA ST TO THE WEST; [illegible] TRAFFIC NOISE FROM 55 FREEWAY TO THE WEST;

SOURCE INFO AND TRAFFIC COUNTS
PRIMARY NOISE SOURCE (TRAFFIC) AIRCRAFT RAIL INDUSTRIAL OTHER:
ROADWAY TYPE: ASPHALT DIST. TO RDWY C/L OR (EOP): 10' TO EOP ON RAINIER DR
TRAFFIC COUNT DURATION: — MIN SPEED — MIN 30' TO EOP ON YORBA ST

	DIRECTION	COUNT 1 (OR RDWY 1) NB/EB	COUNT 1 SB/WB	COUNT 1 NB/EB SPEED	COUNT 1 SB/WB SPEED	COUNT 2 (OR RDWY 2) NB/EB	COUNT 2 SB/WB	COUNT 2 NB/EB SPEED	COUNT 2 SB/WB SPEED
	AUTOS								
	MED TRKS								
	HVY TRKS								
	BUSES								
	MOTRCLS								

IF COUNTING BOTH DIRECTIONS AS ONE, CHECK HERE —

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: AUDIBLE TRAFFIC NOISE FROM 55 FREEWAY TO THE WEST; SOME JET AIRCRAFT FLYOVERS;

DESCRIPTION / SKETCH
TERRAIN HARD SOFT (MIXED) FLAT OTHER:
PHOTOS 7150; 7151; 7152; 7153; 7154; 7155; 7156; 7157
OTHER COMMENTS / SKETCH



FIELD NOISE MEASUREMENT DATA

DUDEK

PROJECT OCSD FACILITIES MASTER PLAN PROJECT # 11774
SITE ID
SITE ADDRESS OBSERVER(S) PETE VITAR
START DATE 1/30/20 END DATE 1/30/20
START TIME END TIME

METEOROLOGICAL CONDITIONS
TEMP 72 F HUMIDITY 26 % R.H. WIND CALM (LIGHT) MODERATE
WINDSPD 7 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 # 140317004
CALIBRATOR B&KA CAL14 SERIAL # 48015 1
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
(ST-7) 12-13	13:51	14:06	68.2	90.0	53.5				

COMMENTS
READING TAKEN IN FRONT OF 1396 GARLINGFORD ST (RESIDENTIAL); PRIMARY NOISE SOURCE IS TRAFFIC ON GARLINGFORD ST AND ON COLLEGE AVE TO THE WEST; FAINT AUDIBLE HUM FROM ELECTRICAL TRANSFORMER AT CORNER OF GARLINGFORD & COLLEGE;

SOURCE INFO AND TRAFFIC COUNTS
PRIMARY NOISE SOURCE (TRAFFIC) AIRCRAFT RAIL INDUSTRIAL OTHER:
ROADWAY TYPE: ASPHALT DIST. TO RDWY C/L OR (EOP): 9' TO EOP ON GARLINGFORD ST.
TRAFFIC COUNT DURATION: — MIN SPEED ___ MIN SPEED

	DIRECTION	COUNT 1 (OR RDWY 1) NB/EB	SB/WB	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
	AUTOS									
	MED TRKS									
	HVY TRKS									
	BUSES									
	MOTRCLS									

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 7135; 7136; 7137; 7138; 7139; 7140; 7141;
OTHER COMMENTS / SKETCH



FIELD NOISE MEASUREMENT DATA

DUDEK

PROJECT OCSD FACILITIES MSTR PLAN PROJECT # 11774
SITE ID
SITE ADDRESS OBSERVER(S) PETE VITAR
START DATE 1/30/20 END DATE 1/20/20
START TIME END TIME

METEOROLOGICAL CONDITIONS

TEMP 67 F HUMIDITY 40 % % R.H. WIND CALM (LIGHT) MODERATE
WINDSPD 3 MPH DIR. N NE E 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 # 14031704
CALIBRATOR B&W A CA114 SERIAL # 48015 1
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
(ST-8) 3-4	10:14	10:29	67.8	77.9	53.0				

COMMENTS
READING TAKEN AT NORTH PROPERTY LINE OF 1510 W. BALBOA BL (RESIDENTIAL) IN PARKING LOT AREA; PRIMARY NOISE SOURCE IS TRAFFIC ON W. BALBOA BL;

SOURCE INFO AND TRAFFIC COUNTS

PRIMARY NOISE SOURCE (TRAFFIC) AIRCRAFT RAIL INDUSTRIAL OTHER:
ROADWAY TYPE: ASPHALT DIST. TO RDWY C/L OR (EOP): 25'
TRAFFIC COUNT DURATION: ___ MIN SPEED ___ MIN SPEED

COUNT 1 (OR RDWY 1) DIRECTION	NB/EB	SB/WB	NB/EB	SB/WB
AUTOS				
MED TRKS				
HVY TRKS				
BUSES				
MOTRCLS				

IF COUNTING BOTH DIRECTIONS AS ONE, CHECK HERE ☐

COUNT 2 (OR RDWY 2)	NB/EB	SB/WB	NB/EB	SB/WB

SPEEDS ESTIMATED BY: RADAR / DRIVING THE PACE
POSTED SPEED LIMIT SIGNS SAY: 30 MPH

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 7100; 7101; 7102; 7103; 7104; 7105; 7106;
OTHER COMMENTS / SKETCH



Appendix J-2

Municipal Code Noise Ordinances

Summary of local noise ordinances re OC Sanitation District FMP

(as of February 2020)

Municipality	Citation	Section in Code	Standard
City of Anaheim	§ 6.44.020	Title 6: Public Health and Safety	Could not find specific noise ordinance only general narrative nuisance prohibition: "Any condition or activity . . . which presents an imminent threat to the health, property, safety or welfare of the public or the occupants of the subject property . . . ."
City of Brea	§ 8.20.050	Title 8: Health, Safety and Welfare	Numeric standard (primarily 55 dB(A) 7 am to 10 pm; 50 dB(A) 10 pm to 7 am) (same as Orange County noise ordinance). Noise sources associated with construction exempt between the hours of 7:00 a.m. and 7:00 p.m. on weekdays, including Saturday.
City of Buena Park	§ 8.28.010	Title 8: Health, Safety and Welfare	Numeric standard, incorporating by reference Orange County noise ordinance (primarily 55 dB(A) 7 am to 10 pm; 50 dB(A) 10 pm to 7 am). Noise associated with construction exempt between the hours of 7:00 a.m. and 8:00 p.m. on weekdays, including Saturday.
City of Cypress	§ 13-68	Chapter 13: Health and Sanitation	Numeric standard (primarily 55/60 dB(A) 7 am to 10 pm; 50/55 dB(A) 10 pm to 7 am, depending on zone). Noise associated with construction exempt between the hours of 7:00 a.m. and 8:00 p.m. on weekdays, 9:00 a.m. and 8:00 p.m. on Saturday.
City of Fullerton	§	Title 15: Zoning	Numeric standard (primarily 55 dB(A) 7 am to 10 pm; 50 dB(A) 10 pm to 7 am). Noise associated with construction exempt between the hours of 7:00 a.m. and 8:00 p.m. on weekdays, including Saturday.
City of Garden Grove	§ 8.47.040	Title 8: Peace, Safety and Morals	Numeric standard (running from 50 to 70 dB(A), depending on zone). Noise associated with

Municipality	Citation	Section in Code	Standard
			construction exempt between the hours of 7:00 a.m. and 10:00 p.m.
City of Irvine	§ 6-8-204	Division 8 (Pollution) Chapter 2 (Noise)	Numeric standard (primarily 55 dB(A) 7 am to 10 pm; 50 dB(A) 10 pm to 7 am). Noise associated with construction exempt between the hours of 7:00 a.m. and 7:00 p.m. Mondays through Fridays, and 9:00 a.m. and 6:00 p.m. on Saturdays.
City of La Habra	§ 9.32.050	Title 9: Public Peace and Welfare	Numeric standard (primarily 55 dB(A) 7 am to 10 pm; 50 dB(A) 10 pm to 7 am), Noise associated with construction exempt between the hours of 7:00 a.m. and 8:00 p.m. on weekdays, including Saturday.
City of La Mirada	§ 9.04.010(4)	Title 9: Peace, Safety and Morals	Narrative standard (prohibits "The performance of any construction or repair work . . . where any such work . . . makes loud noises to the disturbance of persons occupying sleeping quarters in a dwelling, hotel, or apartment or other place of residence." Noise associated with construction exempt between the hours of 7:00 a.m. and 8:00 p.m. on weekdays, including Saturday.or on Sunday between the hours of 9:00 a.m. and 8:00 p.m.
City of La Palma	§ 44.267)	Article III – Standards Applicable in All Zoning Districts	Numeric standard (running from 45 to 65 dB(A)). Noise associated with construction exempt between the hours of 7:00 a.m. and 5:00 p.m. on weekdays, or on Sunday between the hours of 9:00 a.m. and 5:00 p.m.
City of Los Alamitos	§§ 17.24.050, 17.24.060	Title 17: Zoning	Numeric standard (running from 45 to 70 dB(A), depending on zone). Noise associated with construction exempt between the hours of 7:00 a.m. and 8:00 p.m. on weekdays, including Saturday, provided that a permit has been obtained from the City.

Municipality	Citation	Section in Code	Standard
City of Newport Beach	§ 10.26.025	Title 10: Offenses and Nuisances	Numeric standard (running from 50 to 70 dB(A), depending on zone). Noise associated with maintenance, repair or improvement of any public work or facility by public employees, by any person or persons acting pursuant to a public works contract, or by any person or persons performing such work or pursuant to the direction of, or on behalf of, any public agency(except City of Newport Beach, or its employees, contractors or agents) is exempt.
City of Orange	§ 8.24.050	Title 8: Health and Safety	Numeric standard (running from 50 to 55 dB(A), depending on zone). Noise from maintenance or construction activity undertaken by a public agency or utility within street right of way is exempt.
City of Placentia	§ 23.76.050	Title 23: Zoning	Numeric standard (running from 50 to 70 dB(A), depending on zone). Noise associated with construction exempt between the hours of 7:00 a.m. and 7:00 p.m. on weekdays, 9:00 a.m. and 6:00 p.m. Saturday, and 10:00 a.m.and 5:00 p.m on Sunday.
City of Santa Ana	§ 18-312	Chapter 18: Health and Sanitation	Numeric standard (running from 50 to 55 dB(A), depending on zone). Noise associated with construction exempt between the hours of 7:00 a.m. and 8:00 p.m. on weekdays, including Saturday.
City of Seal Beach	§ 7.15.015	Chapter 7.15: Noise	Numeric standard (primarily 55 dB(A) 7 am to 10 pm; 50 dB(A) 10 pm to 7 am). Noise associated with construction exempt between the hours of 7:00 a.m. and 8:00 p.m. on weekdays; and between 8:00 a.m. and 8:00 p.m. on Saturday.
City of Stanton	§ 9.28.050	Chapter 9.28 Noise Control	Numeric standard (primarily 55 dB(A) 7 am to 10 pm; 50 dB(A) 10 pm to 7 am). Noise associated with construction exempt between the hours of 7:00 a.m. and 8:00

Municipality	Citation	Section in Code	Standard
			p.m. on weekdays, including Saturday.
City of Tustin	§ 4614	Article 4: Health and Sanitation	Numeric standard (running from 50 to 70 dB(A), depending on zone). Noise associated with construction exempt between the hours of 7:00 a.m. and 6:00 p.m. on weekdays, and 9:00 a.m. and 5:00 p.m. on Saturday.
City of Villa Park	§ 6-6.5	Article 6: Noise Control	Numeric standard (primarily 55 dB(A) 7 am to 10 pm; 50 dB(A) 10 pm to 7 am). Noise associated with construction exempt between the hours of 7:00 a.m. and 8:00 p.m. on weekdays, and 8:00 a.m. and 8:00 p.m. on Saturday.

Appendix J-3

Construction Noise Model Inputs and Outputs

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 3/12/2020
Case Description: OCSD Plant 1: P1-126 - Demolition

---- Receptor #1 ----

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
Nearest Residence	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Front End Loader	No	40		79.1	975	0
Front End Loader	No	40		79.1	975	0
Front End Loader	No	40		79.1	975	0
Front End Loader	No	40		79.1	975	0
Excavator	No	40		80.7	975	0
Excavator	No	40		80.7	975	0
Excavator	No	40		80.7	975	0
Excavator	No	40		80.7	975	0
Gradall	No	40		83.4	975	0
Gradall	No	40		83.4	975	0
Crane	No	16		80.6	975	0
Crane	No	16		80.6	975	0
Mounted Impact Hammer (hoe ram)	Yes	20		90.3	975	0
Mounted Impact Hammer (hoe ram)	Yes	20		90.3	975	0

Results

Equipment	Calculated (dBA) *Lmax	Leq
Front End Loader	53.3	49.3
Front End Loader	53.3	49.3
Front End Loader	53.3	49.3
Front End Loader	53.3	49.3
Excavator	54.9	50.9
Excavator	54.9	50.9
Excavator	54.9	50.9
Excavator	54.9	50.9
Gradall	57.6	53.6
Gradall	57.6	53.6
Crane	54.7	46.8
Crane	54.7	46.8
Mounted Impact Hammer (hoe ram)	64.5	57.5
Mounted Impact Hammer (hoe ram)	64.5	57.5
Total	64.5	64

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
Acoustic Center	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Front End Loader	No	40		79.1	1145	0
Front End Loader	No	40		79.1	1145	0
Front End Loader	No	40		79.1	1145	0
Front End Loader	No	40		79.1	1145	0
Excavator	No	40		80.7	1145	0
Excavator	No	40		80.7	1145	0
Excavator	No	40		80.7	1145	0
Excavator	No	40		80.7	1145	0
Gradall	No	40		83.4	1145	0
Gradall	No	40		83.4	1145	0
Crane	No	16		80.6	1145	0
Crane	No	16		80.6	1145	0
Mounted Impact Hammer (hoe ram)	Yes	20		90.3	1145	0
Mounted Impact Hammer (hoe ram)	Yes	20		90.3	1145	0

Results

Calculated (dBA)

Equipment	*Lmax	Leq
Front End Loader	51.9	47.9
Front End Loader	51.9	47.9
Front End Loader	51.9	47.9
Front End Loader	51.9	47.9
Excavator	53.5	49.5
Excavator	53.5	49.5
Excavator	53.5	49.5
Excavator	53.5	49.5
Gradall	56.2	52.2
Gradall	56.2	52.2
Crane	53.4	45.4
Crane	53.4	45.4
Mounted Impact Hammer (hoe ram)	63.1	56.1
Mounted Impact Hammer (hoe ram)	63.1	56.1
Total	63.1	62.6

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 3/12/2020
Case Description: OCSD Plant 1: P1-126 - Building Construction

---- Receptor #1 ----

Baselines (dBA)

Description	Land Use	Daytime	Evening	Night
Nearest Residence	Residential	50	45	40

			Equipment Spec	Actual	Receptor	Estimated

Description	Impact Device	Usage(%)	Lmax (dBA)	Lmax (dBA)	Distance (feet)	Shielding (dBA)
Crane	No	16		80.6	975	0
Crane	No	16		80.6	975	0
Gradall	No	40		83.4	975	0
Gradall	No	40		83.4	975	0
Gradall	No	40		83.4	975	0
Backhoe	No	40		77.6	975	0
Backhoe	No	40		77.6	975	0
Backhoe	No	40		77.6	975	0
Backhoe	No	40		77.6	975	0
Generator	No	50		80.6	975	0
Generator	No	50		80.6	975	0
Generator	No	50		80.6	975	0
Generator	No	50		80.6	975	0
Generator	No	50		80.6	975	0
Generator	No	50		80.6	975	0
Concrete Mixer Truck	No	40		78.8	975	0
Concrete Mixer Truck	No	40		78.8	975	0

Results

Calculated (dBA)

Equipment	*Lmax	Leq
Crane	54.7	46.8
Crane	54.7	46.8
Gradall	57.6	53.6
Gradall	57.6	53.6
Gradall	57.6	53.6
Backhoe	51.8	47.8
Backhoe	51.8	47.8
Backhoe	51.8	47.8
Backhoe	51.8	47.8
Generator	54.8	51.8
Generator	54.8	51.8
Generator	54.8	51.8
Generator	54.8	51.8
Generator	54.8	51.8
Generator	54.8	51.8
Concrete Mixer Truck	53	49
Concrete Mixer Truck	53	49
Total	57.6	63.2

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Baselines (dBA)

Description	Land Use	Daytime	Evening	Night
Acoustic Center	Residential	50	45	40

Equipment

Description	Impact Device	Usage(%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Crane	No	16		80.6	1145	0
Crane	No	16		80.6	1145	0

Gradall	No	40	83.4	1145	0
Gradall	No	40	83.4	1145	0
Gradall	No	40	83.4	1145	0
Backhoe	No	40	77.6	1145	0
Backhoe	No	40	77.6	1145	0
Backhoe	No	40	77.6	1145	0
Backhoe	No	40	77.6	1145	0
Generator	No	50	80.6	1145	0
Generator	No	50	80.6	1145	0
Generator	No	50	80.6	1145	0
Generator	No	50	80.6	1145	0
Generator	No	50	80.6	1145	0
Generator	No	50	80.6	1145	0
Concrete Mixer Truck	No	40	78.8	1145	0
Concrete Mixer Truck	No	40	78.8	1145	0

Results

Calculated (dBA)

Equipment		*Lmax	Leq
Crane		53.4	45.4
Crane		53.4	45.4
Gradall		56.2	52.2
Gradall		56.2	52.2
Gradall		56.2	52.2
Backhoe		50.4	46.4
Backhoe		50.4	46.4
Backhoe		50.4	46.4
Backhoe		50.4	46.4
Generator		53.4	50.4
Generator		53.4	50.4
Generator		53.4	50.4
Generator		53.4	50.4
Generator		53.4	50.4
Generator		53.4	50.4
Concrete Mixer Truck		51.6	47.6
Concrete Mixer Truck		51.6	47.6
	Total	56.2	61.8

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 3/12/2020
Case Description: OCSD Plant 1: P1-126 - Paving

---- Receptor #1 ----

Baselines (dBA)

Description	Land Use	Daytime	Evening	Night
Nearest Residence	Residential	50	45	40

		Equipment			
		Spec	Actual	Receptor	Estimated
	Impact	Lmax	Lmax	Distance	Shielding

Description	Device	Usage(%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Paver	No	50		77.2	975	0
Roller	No	20		80	975	0
Roller	No	20		80	975	0

Results

Calculated (dBA)

Equipment	*Lmax	Leq
Paver	51.4	48.4
Roller	54.2	47.2
Roller	54.2	47.2
Total	54.2	52.4

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Baselines (dBA)

Description	Land Use	Daytime	Evening	Night
Acoustic Center	Residential	50	45	40

Equipment

Description	Impact Device	Usage(%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Paver	No	50		77.2	1145	0
Roller	No	20		80	1145	0
Roller	No	20		80	1145	0

Results

Calculated (dBA)

Equipment	*Lmax	Leq
Paver	50	47
Roller	52.8	45.8
Roller	52.8	45.8
Total	52.8	51

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 3/12/2020

Case Description: OCSD Plant 1: P1-126 - Architectural Coating

---- Receptor #1 ----

Baselines (dBA)

Description	Land Use	Daytime	Evening	Night
Nearest Residence	Residential	50	45	40

Equipment

Description	Impact Device	Usage(%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Compressor (air)	No	40		77.7	975	0

Results

Calculated (dBA)

Equipment		*Lmax	Leq
Compressor (air)		51.9	47.9
	Total	51.9	47.9

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Baselines (dBA)

Description	Land Use	Daytime	Evening	Night
Acoustic Center	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Compressor (air)	No	40		77.7	1145	0

Results

Calculated (dBA)

Equipment		*Lmax	Leq
Compressor (air)		50.5	46.5
	Total	50.5	46.5

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 3/12/2020

Case Description: OCSD Plant 1: P1-126 - Testing

---- Receptor #1 ----

Baselines (dBA)

Description	Land Use	Daytime	Evening	Night
Nearest Residence	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Generator	No	50		80.6	975	0
Generator	No	50		80.6	975	0

Results

Calculated (dBA)

Equipment		*Lmax	Leq
Generator		54.8	51.8
Generator		54.8	51.8
	Total	54.8	54.8

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Baselines (dBA)

Description	Land Use	Daytime	Evening	Night
Acoustic Center	Residential	50	45	40

Equipment

Description	Impact Device	Usage(%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Generator	No	50		80.6	1145	0
Generator	No	50		80.6	1145	0

Results

Calculated (dBA)

Equipment		*Lmax	Leq
Generator		53.4	50.4
Generator		53.4	50.4
	Total	53.4	53.4

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 3/11/2020
Case Description: OCSD Plant 1: X-017 - Demolition

---- Receptor #1 ----

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
Nearest Residence	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Man Lift	No	20		74.7	780	6
Man Lift	No	20		74.7	780	6
Man Lift	No	20		74.7	780	6
Crane	No	16		80.6	780	6
Gradall	No	40		83.4	780	6
Gradall	No	40		83.4	780	6

Results

Calculated (dBA)

Equipment	*Lmax	Leq
Man Lift	44.8	37.8
Man Lift	44.8	37.8
Man Lift	44.8	37.8
Crane	50.7	42.7
Gradall	53.5	49.6
Gradall	53.5	49.6
Total	53.5	53.4

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
Acoustic Center	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Man Lift	No	20		74.7	990	6
Man Lift	No	20		74.7	990	6
Man Lift	No	20		74.7	990	6
Crane	No	16		80.6	990	6
Gradall	No	40		83.4	990	6
Gradall	No	40		83.4	990	6

Results

Calculated (dBA)

Equipment	*Lmax	Leq

Man Lift		42.8	35.8
Man Lift		42.8	35.8
Man Lift		42.8	35.8
Crane		48.6	40.7
Gradall		51.5	47.5
Gradall		51.5	47.5
	Total	51.5	51.3

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 3/11/2020
Case Description: OCSD Plant 1: X-017 - Structural Rehabilitation

---- Receptor #1 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Nearest Residence	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Concrete Mixer Truck	No	40		78.8	780	6
Concrete Mixer Truck	No	40		78.8	780	6
Generator	No	50		80.6	780	6
Generator	No	50		80.6	780	6

Results

		Calculated (dBA)	
Equipment		*Lmax	Leq
Concrete Mixer Truck		48.9	45
Concrete Mixer Truck		48.9	45
Generator		50.8	47.8
Generator		50.8	47.8
	Total	50.8	52.6

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Acoustic Center	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Concrete Mixer Truck	No	40		78.8	990	6
Concrete Mixer Truck	No	40		78.8	990	6
Generator	No	50		80.6	990	6
Generator	No	50		80.6	990	6

Results

Calculated (dBA)

Equipment		*Lmax	Leq
Concrete Mixer Truck		46.9	42.9
Concrete Mixer Truck		46.9	42.9
Generator		48.7	45.7
Generator		48.7	45.7
	Total	48.7	50.5

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 3/11/2020
Case Description: OCSD Plant 1: X-017 - Building Construction

---- Receptor #1 ----

Baselines (dBA)

Description	Land Use	Daytime	Evening	Night
Nearest Residence	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Man Lift	No	20		74.7	780	6
Man Lift	No	20		74.7	780	6
Man Lift	No	20		74.7	780	6
Crane	No	16		80.6	780	6
Gradall	No	40		83.4	780	6
Gradall	No	40		83.4	780	6
Generator	No	50		80.6	780	6
Generator	No	50		80.6	780	6
Generator	No	50		80.6	780	6
Generator	No	50		80.6	780	6
Welder / Torch	No	40		74	780	6
Welder / Torch	No	40		74	780	6

Results

Calculated (dBA)

Equipment	*Lmax	Leq
Man Lift	44.8	37.8
Man Lift	44.8	37.8
Man Lift	44.8	37.8
Crane	50.7	42.7
Gradall	53.5	49.6
Gradall	53.5	49.6
Generator	50.8	47.8
Generator	50.8	47.8
Generator	50.8	47.8
Generator	50.8	47.8
Welder / Torch	44.1	40.2

Welder / Torch		44.1	40.2
	Total	53.5	56.8

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Acoustic Center	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Man Lift	No	20		74.7	990	6
Man Lift	No	20		74.7	990	6
Man Lift	No	20		74.7	990	6
Crane	No	16		80.6	990	6
Gradall	No	40		83.4	990	6
Gradall	No	40		83.4	990	6
Generator	No	50		80.6	990	6
Generator	No	50		80.6	990	6
Generator	No	50		80.6	990	6
Generator	No	50		80.6	990	6
Welder / Torch	No	40		74	990	6
Welder / Torch	No	40		74	990	6

Results

Calculated (dBA)

Equipment		*Lmax	Leq
Man Lift		42.8	35.8
Man Lift		42.8	35.8
Man Lift		42.8	35.8
Crane		48.6	40.7
Gradall		51.5	47.5
Gradall		51.5	47.5
Generator		48.7	45.7
Generator		48.7	45.7
Generator		48.7	45.7
Generator		48.7	45.7
Welder / Torch		42.1	38.1
Welder / Torch		42.1	38.1
	Total	51.5	54.7

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 3/11/2020
Case Description: OCSD Plant 1: X-017 - Electrical & Instrumentation

---- Receptor #1 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night

Nearest Residence	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Generator	No	50		80.6	780	6
Generator	No	50		80.6	780	6

Results

Calculated (dBA)

Equipment	*Lmax	Leq
Generator	50.8	47.8
Generator	50.8	47.8
Total	50.8	50.8

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Baselines (dBA)

Description	Land Use	Daytime	Evening	Night
Acoustic Center	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Generator	No	50		80.6	990	6
Generator	No	50		80.6	990	6

Results

Calculated (dBA)

Equipment	*Lmax	Leq
Generator	48.7	45.7
Generator	48.7	45.7
Total	48.7	48.7

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 3/11/2020
Case Description: OCSD Plant 1: X-017 - Architectural Coating

---- Receptor #1 ----

Baselines (dBA)

Description	Land Use	Daytime	Evening	Night
Nearest Residence	Residential	50	45	40

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

Compressor (air)		No	40	77.7	780	6
Generator		No	50	80.6	780	6

Results

Calculated (dBA)

Equipment		*Lmax	Leq
Compressor (air)		47.8	43.8
Generator		50.8	47.8
	Total	50.8	49.2

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Baselines (dBA)

Description	Land Use	Daytime	Evening	Night
Acoustic Center	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Compressor (air)	No	40		77.7	990	6
Generator	No	50		80.6	990	6

Results

Calculated (dBA)

Equipment		*Lmax	Leq
Compressor (air)		45.7	41.8
Generator		48.7	45.7
	Total	48.7	47.2

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 3/11/2020
Case Description: OCSD Plant 1: X-038 - Demolition

---- Receptor #1 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Nearest Residence	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Crane	No	16		80.6	415	0
Front End Loader	No	40		79.1	415	0

Results

Calculated (dBA)

Equipment	*Lmax	Leq
Crane	62.2	54.2
Front End Loader	60.7	56.7
Total	62.2	58.7

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Acoustic Center	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Crane	No	16		80.6	435	0
Front End Loader	No	40		79.1	435	0

Results

Calculated (dBA)

Equipment	*Lmax	Leq
Crane	61.8	53.8
Front End Loader	60.3	56.3
Total	61.8	58.3

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 3/11/2020
Case Description: OCSD Plant 1: X-038 - Structural Rehabilitation

---- Receptor #1 ----

Baselines (dBA)

Description	Land Use	Daytime	Evening	Night
Nearest Residence	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Man Lift	No	20		74.7	415	0
Compressor (air)	No	40		77.7	415	0
Concrete Mixer Truck	No	40		78.8	415	0

Results

Calculated (dBA)

Equipment	*Lmax	Leq
Man Lift	56.3	49.3
Compressor (air)	59.3	55.3
Concrete Mixer Truck	60.4	56.4
Total	60.4	59.4

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Baselines (dBA)

Description	Land Use	Daytime	Evening	Night
Acoustic Center	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Man Lift	No	20		74.7	435	0
Compressor (air)	No	40		77.7	435	0
Concrete Mixer Truck	No	40		78.8	435	0

Results

Calculated (dBA)

Equipment	*Lmax	Leq
Man Lift	55.9	48.9
Compressor (air)	58.9	54.9
Concrete Mixer Truck	60	56
Total	60	59

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 3/11/2020

Case Description: OCSD Plant 1: X-038 - Building Construction

---- Receptor #1 ----

Baselines (dBA)

Description	Land Use	Daytime	Evening	Night
Nearest Residence	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Man Lift	No	20		74.7	415	0
Crane	No	16		80.6	415	0
Backhoe	No	40		77.6	415	0
Welder / Torch	No	40		74	415	0

Results

Calculated (dBA)

Equipment	*Lmax	Leq
Man Lift	56.3	49.3
Crane	62.2	54.2
Backhoe	59.2	55.2
Welder / Torch	55.6	51.6
Total	62.2	59.2

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Baselines (dBA)

Description	Land Use	Daytime	Evening	Night
Acoustic Center	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Man Lift	No	20		74.7	435	0
Crane	No	16		80.6	435	0
Backhoe	No	40		77.6	435	0
Welder / Torch	No	40		74	435	0

Results

Calculated (dBA)

Equipment	*Lmax	Leq
Man Lift	55.9	48.9
Crane	61.8	53.8
Backhoe	58.8	54.8
Welder / Torch	55.2	51.2
Total	61.8	58.8

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 3/11/2020
Case Description: OCSD Plant 1: X-038 - Testing

---- Receptor #1 ----

Baselines (dBA)

Description	Land Use	Daytime	Evening	Night
Nearest Residence	Residential	50	45	40

Equipment

Description	Impact Device	Usage(%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Generator	No	50		80.6	415	0

Results

Calculated (dBA)

Equipment		*Lmax	Leq
Generator		62.2	59.2
	Total	62.2	59.2

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Baselines (dBA)

Description	Land Use	Daytime	Evening	Night
Acoustic Center	Residential	50	45	40

Equipment

Description	Impact Device	Usage(%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Generator	No	50		80.6	435	0

Results

Calculated (dBA)

Equipment		*Lmax	Leq
Generator		61.8	58.8
	Total	61.8	58.8

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 3/9/2020
Case Description: OCSD Plant 1: X-049 - Demolition

---- Receptor #1 ----

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
Nearest Residence	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Front End Loader	No	40		79.1	600	0
Front End Loader	No	40		79.1	600	0
Crane	No	16		80.6	600	0
Pumps	No	50		80.9	600	0

Results

Calculated (dBA)

Equipment	*Lmax	Leq
Front End Loader	57.5	53.5
Front End Loader	57.5	53.5
Crane	59	51
Pumps	59.4	56.3
Total	59.4	60

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
Acoustic Center	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Front End Loader	No	40		79.1	950	0
Front End Loader	No	40		79.1	950	0
Crane	No	16		80.6	950	0
Pumps	No	50		80.9	950	0

Results

Calculated (dBA)

Equipment	*Lmax	Leq
Front End Loader	53.5	49.6
Front End Loader	53.5	49.6
Crane	55	47
Pumps	55.4	52.4
Total	55.4	56.1

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 3/9/2020
Case Description: OCSD Plant 1: X-049 - Structural Rehabilitation

---- Receptor #1 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Nearest Residence	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Concrete Mixer Truck	No	40		78.8	600	0
Concrete Mixer Truck	No	40		78.8	600	0
Generator	No	50		80.6	600	0
Generator	No	50		80.6	600	0
Generator	No	50		80.6	600	0
Man Lift	No	20		74.7	600	0
Pumps	No	50		80.9	600	0

Results

	Calculated (dBA)	
Equipment	*Lmax	Leq
Concrete Mixer Truck	57.2	53.2
Concrete Mixer Truck	57.2	53.2
Generator	59	56
Generator	59	56
Generator	59	56
Man Lift	53.1	46.1
Pumps	59.4	56.3
Total	59.4	63.2

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Acoustic Center	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Concrete Mixer Truck	No	40		78.8	950	0
Concrete Mixer Truck	No	40		78.8	950	0
Generator	No	50		80.6	950	0
Generator	No	50		80.6	950	0
Generator	No	50		80.6	950	0
Man Lift	No	20		74.7	950	0
Pumps	No	50		80.9	950	0

Results

Calculated (dBA)

Equipment		*Lmax	Leq
Concrete Mixer Truck		53.2	49.2
Concrete Mixer Truck		53.2	49.2
Generator		55.1	52
Generator		55.1	52
Generator		55.1	52
Man Lift		49.1	42.1
Pumps		55.4	52.4
	Total	55.4	59.2

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 3/9/2020
Case Description: OCSD Plant 1: X-049 - Building Construction

---- Receptor #1 ----

Baselines (dBA)

Description	Land Use	Daytime	Evening	Night
Nearest Residence	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Crane	No	16		80.6	600	0
Backhoe	No	40		77.6	600	0
Generator	No	50		80.6	600	0
Generator	No	50		80.6	600	0
Generator	No	50		80.6	600	0
Generator	No	50		80.6	600	0
Man Lift	No	20		74.7	600	0
Man Lift	No	20		74.7	600	0
Welder / Torch	No	40		74	600	0
Pumps	No	50		80.9	600	0

Results

Calculated (dBA)

Equipment	*Lmax	Leq
Crane	59	51
Backhoe	56	52
Generator	59	56
Generator	59	56
Generator	59	56
Generator	59	56
Man Lift	53.1	46.1
Man Lift	53.1	46.1
Welder / Torch	52.4	48.4

Pumps		59.4	56.3
	Total	59.4	63.9

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Baselines (dBA)

Description	Land Use	Daytime	Evening	Night
Acoustic Center	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Crane	No	16		80.6	950	0
Backhoe	No	40		77.6	950	0
Generator	No	50		80.6	950	0
Generator	No	50		80.6	950	0
Generator	No	50		80.6	950	0
Generator	No	50		80.6	950	0
Man Lift	No	20		74.7	950	0
Man Lift	No	20		74.7	950	0
Welder / Torch	No	40		74	950	0
Pumps	No	50		80.9	950	0

Results

Calculated (dBA)

Equipment		*Lmax	Leq
Crane		55	47
Backhoe		52	48
Generator		55.1	52
Generator		55.1	52
Generator		55.1	52
Generator		55.1	52
Man Lift		49.1	42.1
Man Lift		49.1	42.1
Welder / Torch		48.4	44.4
Pumps		55.4	52.4
	Total	55.4	59.9

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 3/9/2020
Case Description: OCSD Plant 1: X-049 - Testing

---- Receptor #1 ----

Baselines (dBA)

Description	Land Use	Daytime	Evening	Night
Nearest Residence	Residential	50	45	40

Description	Equipment Spec	Actual	Receptor	Estimated

Description	Impact Device	Usage(%)	Lmax (dBA)	Lmax (dBA)	Distance (feet)	Shielding (dBA)
Generator	No	50		80.6	600	0

Results

Calculated (dBA)

Equipment		*Lmax	Leq
Generator		59	56
	Total	59	56

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Baselines (dBA)

Description	Land Use	Daytime	Evening	Night
Acoustic Center	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Generator	No	50		80.6	950	0

Results

Calculated (dBA)

Equipment		*Lmax	Leq
Generator		55.1	52
	Total	55.1	52

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 6/29/2020
Case Description: OCSD Plant 2: P2-126 - Site Preparation

---- Receptor #1 ----

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
Nearest Residence	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Excavator	No	40		80.7	150	0
Dozer	No	40		81.7	150	0
Front End Loader	No	40		79.1	150	0
Front End Loader	No	40		79.1	150	0

Results

Equipment	Calculated (dBA) *Lmax	Leq
Excavator	71.2	67.2
Dozer	72.1	68.1
Front End Loader	69.6	65.6
Front End Loader	69.6	65.6
Total	72.1	72.8

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
Acoustic Center	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Excavator	No	40		80.7	175	0
Dozer	No	40		81.7	175	0
Front End Loader	No	40		79.1	175	0
Front End Loader	No	40		79.1	175	0

Results

Equipment	Calculated (dBA) *Lmax	Leq
Excavator	69.8	65.8

Dozer		70.8	66.8
Front End Loader		68.2	64.2
Front End Loader		68.2	64.2
	Total	70.8	71.4

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 7/1/2020
Case Description: OCSD Plant 2: P2-126 - Building Construction

		Baselines (dBA)		---- Receptor #1 ----
Description	Land Use	Daytime	Evening	Night
Nearest Residence	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Man Lift	No	20		74.7	150	0
Man Lift	No	20		74.7	150	0
Concrete Mixer Truck	No	40		78.8	150	0
Concrete Mixer Truck	No	40		78.8	150	0
Crane	No	16		80.6	150	0
Generator	No	50		80.6	150	0
Generator	No	50		80.6	150	0
Generator	No	50		80.6	150	0
Generator	No	50		80.6	150	0
Generator	No	50		80.6	150	0
Generator	No	50		80.6	150	0
Backhoe	No	40		77.6	150	0
Welder / Torch	No	40		74	150	0
Welder / Torch	No	40		74	150	0

	Results Calculated (dBA)	
Equipment	*Lmax	Leq
Man Lift	65.2	58.2
Man Lift	65.2	58.2
Concrete Mixer Truck	69.3	65.3
Concrete Mixer Truck	69.3	65.3
Crane	71	63
Generator	71.1	68.1
Generator	71.1	68.1
Generator	71.1	68.1

Generator		71.1	68.1
Generator		71.1	68.1
Generator		71.1	68.1
Backhoe		68	64
Welder / Torch		64.5	60.5
Welder / Torch		64.5	60.5
	Total	71.1	77.3

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Baselines (dBA)

Description	Land Use	Daytime	Evening	Night
Acoustic Center	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Man Lift	No	20		74.7	175	0
Man Lift	No	20		74.7	175	0
Concrete Mixer Truck	No	40		78.8	175	0
Concrete Mixer Truck	No	40		78.8	175	0
Crane	No	16		80.6	175	0
Generator	No	50		80.6	175	0
Generator	No	50		80.6	175	0
Generator	No	50		80.6	175	0
Generator	No	50		80.6	175	0
Generator	No	50		80.6	175	0
Generator	No	50		80.6	175	0
Backhoe	No	40		77.6	175	0
Welder / Torch	No	40		74	175	0
Welder / Torch	No	40		74	175	0

Results

Calculated (dBA)

Equipment	*Lmax	Leq
Man Lift	63.8	56.8
Man Lift	63.8	56.8
Concrete Mixer Truck	67.9	63.9
Concrete Mixer Truck	67.9	63.9
Crane	69.7	61.7
Generator	69.7	66.7
Generator	69.7	66.7
Generator	69.7	66.7
Generator	69.7	66.7
Generator	69.7	66.7
Generator	69.7	66.7
Backhoe	66.7	62.7
Welder / Torch	63.1	59.1

Welder / Torch		63.1	59.1
	Total	69.7	75.9

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 7/1/2020
Case Description: OCSD Plant 2: P2-126 - Demolition

---- Receptor #1 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Nearest Residence	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Crane	No	16		80.6	150	0
Excavator	No	40		80.7	150	0
Excavator	No	40		80.7	150	0
Backhoe	No	40		77.6	150	0
Backhoe	No	40		77.6	150	0

Results

	Calculated (dBA)	
Equipment	*Lmax	Leq
Crane	71	63
Excavator	71.2	67.2
Excavator	71.2	67.2
Backhoe	68	64
Backhoe	68	64
Total	71.2	72.4

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Acoustic Center	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Crane	No	16		80.6	175	0
Excavator	No	40		80.7	175	0
Excavator	No	40		80.7	175	0

Backhoe		No	40	77.6	175	0
Backhoe		No	40	77.6	175	0

Results

Calculated (dBA)

Equipment		*Lmax	Leq
Crane		69.7	61.7
Excavator		69.8	65.8
Excavator		69.8	65.8
Backhoe		66.7	62.7
Backhoe		66.7	62.7
	Total	69.8	71.1

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 7/1/2020
Case Description: OCSD Plant 2: P2-126 - Architectural Coating

---- Receptor #1 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Nearest Residence	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Compressor (air)	No	40		77.7	150	0

Results

Calculated (dBA)

Equipment		*Lmax	Leq
Compressor (air)		68.1	64.1
	Total	68.1	64.1

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Acoustic Center	Residential	50	45	40

Impact	Equipment Spec Lmax	Actual Lmax	Receptor Distance	Estimated Shielding

Description	Device	Usage(%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Compressor (air)	No	40		77.7	175	0

Results

Calculated (dBA)

Equipment	*Lmax	Leq
Compressor (air)	66.8	62.8
Total	66.8	62.8

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 7/1/2020
Case Description: OCSD Plant 2: P2-126 - Testing

---- Receptor #1 ----

Baselines (dBA)

Description	Land Use	Daytime	Evening	Night
Nearest Residence	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Generator	No	50		80.6	150	0

Results

Calculated (dBA)

Equipment	*Lmax	Leq
Generator	71.1	68.1
Total	71.1	68.1

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Baselines (dBA)

Description	Land Use	Daytime	Evening	Night
Acoustic Center	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Generator	No	50		80.6	175	0

Results

		Calculated (dBA)	
Equipment		*Lmax	Leq
Generator		69.7	66.7
	Total	69.7	66.7

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 6/29/2020
Case Description: OCSD Plant 2: P2-138 - Site Preparation

---- Receptor #1 ----

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
Nearest Residence	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Front End Loader	No	40		79.1	355	0
Front End Loader	No	40		79.1	355	0
Dozer	No	40		81.7	355	0

Results

Calculated (dBA)

Equipment	*Lmax	Leq
Front End Loader	62.1	58.1
Front End Loader	62.1	58.1
Dozer	64.6	60.7
Total	64.6	63.9

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
Acoustic Center	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Front End Loader	No	40		79.1	490	0
Front End Loader	No	40		79.1	490	0
Dozer	No	40		81.7	490	0

Results

Calculated (dBA)

Equipment	*Lmax	Leq
Front End Loader	59.3	55.3
Front End Loader	59.3	55.3

Dozer		61.8	57.9
	Total	61.8	61.1

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 6/29/2020
Case Description: OCSD Plant 2: P2-138 - Building Construction

		Baselines (dBA)		---- Receptor #1 ----
Description	Land Use	Daytime	Evening	Night
Nearest Residence	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Generator	No	50		80.6	355	0
Generator	No	50		80.6	355	0
Generator	No	50		80.6	355	0
Generator	No	50		80.6	355	0
Generator	No	50		80.6	355	0
Generator	No	50		80.6	355	0
Crane	No	16		80.6	355	0
Backhoe	No	40		77.6	355	0
Backhoe	No	40		77.6	355	0
Welder / Torch	No	40		74	355	0
Welder / Torch	No	40		74	355	0
Concrete Mixer Truck	No	40		78.8	355	0
Concrete Mixer Truck	No	40		78.8	355	0
Concrete Mixer Truck	No	40		78.8	355	0
Concrete Mixer Truck	No	40		78.8	355	0
Man Lift	No	20		74.7	355	0
Man Lift	No	20		74.7	355	0

	Results Calculated (dBA)	
Equipment	*Lmax	Leq
Generator	63.6	60.6
Generator	63.6	60.6
Generator	63.6	60.6
Generator	63.6	60.6
Generator	63.6	60.6

Generator	63.6	60.6
Crane	63.5	55.6
Backhoe	60.5	56.6
Backhoe	60.5	56.6
Welder / Torch	57	53
Welder / Torch	57	53
Concrete Mixer Truck	61.8	57.8
Concrete Mixer Truck	61.8	57.8
Concrete Mixer Truck	61.8	57.8
Concrete Mixer Truck	61.8	57.8
Man Lift	57.7	50.7
Man Lift	57.7	50.7
Total	63.6	70.5

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Baselines (dBA)

Description	Land Use	Daytime	Evening	Night
Acoustic Center	Residential	50	45	40

Equipment

Description	Impact Device	Usage(%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Generator	No	50		80.6	490	0
Generator	No	50		80.6	490	0
Generator	No	50		80.6	490	0
Generator	No	50		80.6	490	0
Generator	No	50		80.6	490	0
Generator	No	50		80.6	490	0
Crane	No	16		80.6	490	0
Backhoe	No	40		77.6	490	0
Backhoe	No	40		77.6	490	0
Welder / Torch	No	40		74	490	0
Welder / Torch	No	40		74	490	0
Concrete Mixer Truck	No	40		78.8	490	0
Concrete Mixer Truck	No	40		78.8	490	0
Concrete Mixer Truck	No	40		78.8	490	0
Concrete Mixer Truck	No	40		78.8	490	0
Man Lift	No	20		74.7	490	0
Man Lift	No	20		74.7	490	0

Results

Calculated (dBA)

Equipment	*Lmax	Leq
Generator	60.8	57.8
Generator	60.8	57.8

Generator	60.8	57.8
Generator	60.8	57.8
Generator	60.8	57.8
Generator	60.8	57.8
Crane	60.7	52.8
Backhoe	57.7	53.8
Backhoe	57.7	53.8
Welder / Torch	54.2	50.2
Welder / Torch	54.2	50.2
Concrete Mixer Truck	59	55
Concrete Mixer Truck	59	55
Concrete Mixer Truck	59	55
Concrete Mixer Truck	59	55
Man Lift	54.9	47.9
Man Lift	54.9	47.9
Total	60.8	67.7

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 6/29/2020
Case Description: OCSD Plant 2: P2-138 - Grading

---- Receptor #1 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Nearest Residence	Residential	50	45	40

			Equipment			
			Spec	Actual	Receptor	Estimated
	Impact		Lmax	Lmax	Distance	Shielding
Description	Device	Usage(%)	(dBA)	(dBA)	(feet)	(dBA)
Drill Rig Truck	No	20		79.1	355	0

	Results	
	Calculated (dBA)	
Equipment	*Lmax	Leq
Drill Rig Truck	62.1	55.1
Total	62.1	55.1

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night

Acoustic Center	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Drill Rig Truck	No	20		79.1	490	0

Results

Calculated (dBA)

Equipment	*Lmax	Leq
Drill Rig Truck	59.3	52.3
Total	59.3	52.3

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 6/29/2020
Case Description: OCSD Plant 2: P2-138 - Paving

---- Receptor #1 ----

Baselines (dBA)

Description	Land Use	Daytime	Evening	Night
Nearest Residence	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Paver	No	50		77.2	355	0
Roller	No	20		80	355	0
Roller	No	20		80	355	0
Dump Truck	No	40		76.5	355	0
Dump Truck	No	40		76.5	355	0

Results

Calculated (dBA)

Equipment	*Lmax	Leq
Paver	60.2	57.2
Roller	63	56
Roller	63	56
Dump Truck	59.4	55.4
Dump Truck	59.4	55.4

Total		63	63

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Acoustic Center	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Paver	No	50		77.2	490	0
Roller	No	20		80	490	0
Roller	No	20		80	490	0
Dump Truck	No	40		76.5	490	0
Dump Truck	No	40		76.5	490	0

Results

	Calculated (dBA)	
Equipment	*Lmax	Leq
Paver	57.4	54.4
Roller	60.2	53.2
Roller	60.2	53.2
Dump Truck	56.6	52.6
Dump Truck	56.6	52.6
Total	60.2	60.2

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 6/29/2020
Case Description: OCSD Plant 2: P2-138 - Demolition

---- Receptor #1 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Nearest Residence	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Dozer	No	40		81.7	355	0

Dozer	No	40	81.7	355	0
Excavator	No	40	80.7	355	0
Excavator	No	40	80.7	355	0
Crane	No	16	80.6	355	0
Backhoe	No	40	77.6	355	0
Backhoe	No	40	77.6	355	0
Backhoe	No	40	77.6	355	0
Backhoe	No	40	77.6	355	0
Gradall	No	40	83.4	355	0
Gradall	No	40	83.4	355	0
Mounted Impact Hammer (hoe ram)	Yes	20	90.3	355	0
Mounted Impact Hammer (hoe ram)	Yes	20	90.3	355	0

Results

Calculated (dBA)

Equipment	*Lmax	Leq
Dozer	64.6	60.7
Dozer	64.6	60.7
Excavator	63.7	59.7
Excavator	63.7	59.7
Crane	63.5	55.6
Backhoe	60.5	56.6
Backhoe	60.5	56.6
Backhoe	60.5	56.6
Backhoe	60.5	56.6
Gradall	66.4	62.4
Gradall	66.4	62.4
Mounted Impact Hammer (hoe ram)	73.3	66.3
Mounted Impact Hammer (hoe ram)	73.3	66.3
Total	73.3	72.6

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Baselines (dBA)

Description	Land Use	Daytime	Evening	Night
Acoustic Center	Residential	50	45	40

Equipment

Description	Impact Device	Usage(%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Dozer	No	40		81.7	490	0
Dozer	No	40		81.7	490	0
Excavator	No	40		80.7	490	0
Excavator	No	40		80.7	490	0
Crane	No	16		80.6	490	0
Backhoe	No	40		77.6	490	0

Backhoe	No	40	77.6	490	0
Backhoe	No	40	77.6	490	0
Backhoe	No	40	77.6	490	0
Gradall	No	40	83.4	490	0
Gradall	No	40	83.4	490	0
Mounted Impact Hammer (hoe ram)	Yes	20	90.3	490	0
Mounted Impact Hammer (hoe ram)	Yes	20	90.3	490	0

Results

Calculated (dBA)

Equipment	*Lmax	Leq
Dozer	61.8	57.9
Dozer	61.8	57.9
Excavator	60.9	56.9
Excavator	60.9	56.9
Crane	60.7	52.8
Backhoe	57.7	53.8
Backhoe	57.7	53.8
Backhoe	57.7	53.8
Backhoe	57.7	53.8
Gradall	63.6	59.6
Gradall	63.6	59.6
Mounted Impact Hammer (hoe ram)	70.5	63.5
Mounted Impact Hammer (hoe ram)	70.5	63.5
Total	70.5	69.8

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 6/29/2020
Case Description: OCSD Plant 2: P2-138 - Architectural Coating

---- Receptor #1 ----

Baselines (dBA)

Description	Land Use	Daytime	Evening	Night
Nearest Residence	Residential	50	45	40

Equipment

Description	Impact Device	Usage(%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Compressor (air)	No	40		77.7	355	0
Compressor (air)	No	40		77.7	355	0
Generator	No	50		80.6	355	0

Generator		No	50	80.6	355	0

Results

Calculated (dBA)

Equipment	*Lmax	Leq
Compressor (air)	60.6	56.7
Compressor (air)	60.6	56.7
Generator	63.6	60.6
Generator	63.6	60.6
Total	63.6	65.1

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Baselines (dBA)

Description	Land Use	Daytime	Evening	Night
Acoustic Center	Residential	50	45	40

Equipment

Description	Impact Device	Usage(%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Compressor (air)	No	40		77.7	490	0
Compressor (air)	No	40		77.7	490	0
Generator	No	50		80.6	490	0
Generator	No	50		80.6	490	0

Results

Calculated (dBA)

Equipment	*Lmax	Leq
Compressor (air)	57.8	53.9
Compressor (air)	57.8	53.9
Generator	60.8	57.8
Generator	60.8	57.8
Total	60.8	62.3

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 6/29/2020
Case Description: OCSD Plant 2: P2-138 - Testing

---- Receptor #1 ----

Baselines (dBA)

Description	Land Use	Daytime	Evening	Night
Nearest Residence	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Generator	No	50		80.6	355	0

Results

Calculated (dBA)

Equipment		*Lmax	Leq
Generator		63.6	60.6
	Total	63.6	60.6

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Baselines (dBA)

Description	Land Use	Daytime	Evening	Night
Acoustic Center	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Generator	No	50		80.6	490	0

Results

Calculated (dBA)

Equipment		*Lmax	Leq
Generator		60.8	57.8
	Total	60.8	57.8

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 3/24/2020
Case Description: OCSD Plant 2: X-031 - Demolition

				---- Receptor #1 ----			
		Baselines (dBA)					
Description	Land Use	Daytime	Evening	Night			
Nearest Residence	Residential	50	45	40			

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Front End Loader	No	40		79.1	335	0
Front End Loader	No	40		79.1	335	0
Front End Loader	No	40		79.1	335	0
Front End Loader	No	40		79.1	335	0
Front End Loader	No	40		79.1	335	0
Front End Loader	No	40		79.1	335	0
Crane	No	16		80.6	335	0
Crane	No	16		80.6	335	0
Excavator	No	40		80.7	335	0
Excavator	No	40		80.7	335	0
Gradall	No	40		83.4	335	0
Gradall	No	40		83.4	335	0
Gradall	No	40		83.4	335	0

		Results	
		Calculated (dBA)	
Equipment		*Lmax	Leq
Front End Loader		62.6	58.6
Front End Loader		62.6	58.6
Front End Loader		62.6	58.6
Front End Loader		62.6	58.6
Front End Loader		62.6	58.6
Front End Loader		62.6	58.6
Crane		64	56.1
Crane		64	56.1
Excavator		64.2	60.2
Excavator		64.2	60.2
Gradall		66.9	62.9
Gradall		66.9	62.9
Gradall		66.9	62.9
	Total	66.9	71.2

*Calculated Lmax is the Loudest value.

				---- Receptor #2 ----			
		Baselines (dBA)					
Description	Land Use	Daytime	Evening	Night			
Acoustic Center	Residential	50	45	40			

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

Description	Impact Device	Usage(%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Front End Loader	No	40		79.1	565	0
Front End Loader	No	40		79.1	565	0
Front End Loader	No	40		79.1	565	0
Front End Loader	No	40		79.1	565	0
Front End Loader	No	40		79.1	565	0
Front End Loader	No	40		79.1	565	0
Crane	No	16		80.6	565	0
Crane	No	16		80.6	565	0
Excavator	No	40		80.7	565	0
Excavator	No	40		80.7	565	0
Gradall	No	40		83.4	565	0
Gradall	No	40		83.4	565	0
Gradall	No	40		83.4	565	0

Results

Calculated (dBA)

Equipment	*Lmax	Leq
Front End Loader	58	54.1
Front End Loader	58	54.1
Front End Loader	58	54.1
Front End Loader	58	54.1
Front End Loader	58	54.1
Front End Loader	58	54.1
Crane	59.5	51.5
Crane	59.5	51.5
Excavator	59.6	55.7
Excavator	59.6	55.7
Gradall	62.3	58.4
Gradall	62.3	58.4
Gradall	62.3	58.4
Total	62.3	66.6

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 3/24/2020
Case Description: OCSD Plant 2: X-031 - Structural Rehabilitation

---- Receptor #1 ----

Baselines (dBA)

Description	Land Use	Daytime	Evening	Night
Nearest Residence	Residential	50	45	40

Equipment

Description	Impact Device	Usage(%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Concrete Mixer Truck	No	40		78.8	335	0
Concrete Mixer Truck	No	40		78.8	335	0

Generator	No	50	80.6	335	0
Generator	No	50	80.6	335	0
Generator	No	50	80.6	335	0
Generator	No	50	80.6	335	0
Generator	No	50	80.6	335	0
Man Lift	No	20	74.7	335	0
Man Lift	No	20	74.7	335	0
Compressor (air)	No	40	77.7	335	0
Compressor (air)	No	40	77.7	335	0

Results

Calculated (dBA)

Equipment	*Lmax	Leq
Concrete Mixer Truck	62.3	58.3
Concrete Mixer Truck	62.3	58.3
Generator	64.1	61.1
Generator	64.1	61.1
Generator	64.1	61.1
Generator	64.1	61.1
Generator	64.1	61.1
Man Lift	58.2	51.2
Man Lift	58.2	51.2
Compressor (air)	61.1	57.2
Compressor (air)	61.1	57.2
Total	64.1	69.6

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Baselines (dBA)

Description	Land Use	Daytime	Evening	Night
Acoustic Center	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Concrete Mixer Truck	No	40		78.8	565	0
Concrete Mixer Truck	No	40		78.8	565	0
Generator	No	50		80.6	565	0
Generator	No	50		80.6	565	0
Generator	No	50		80.6	565	0
Generator	No	50		80.6	565	0
Generator	No	50		80.6	565	0
Man Lift	No	20		74.7	565	0
Man Lift	No	20		74.7	565	0
Compressor (air)	No	40		77.7	565	0
Compressor (air)	No	40		77.7	565	0

Results

Calculated (dBA)

Equipment	*Lmax	Leq
Concrete Mixer Truck	57.7	53.8
Concrete Mixer Truck	57.7	53.8

Generator		59.6	56.6
Generator		59.6	56.6
Generator		59.6	56.6
Generator		59.6	56.6
Generator		59.6	56.6
Man Lift		53.6	46.6
Man Lift		53.6	46.6
Compressor (air)		56.6	52.6
Compressor (air)		56.6	52.6
	Total	59.6	65

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 3/24/2020
Case Description: OCSD Plant 2: X-031 - Building Construction

		Baselines (dBA)			---- Receptor #1 ----
Description	Land Use	Daytime	Evening	Night	
Nearest Residence	Residential	50	45	40	

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Crane	No	16		80.6	335	0
Crane	No	16		80.6	335	0
Front End Loader	No	40		79.1	335	0
Front End Loader	No	40		79.1	335	0
Generator	No	50		80.6	335	0
Generator	No	50		80.6	335	0
Generator	No	50		80.6	335	0
Man Lift	No	20		74.7	335	0
Man Lift	No	20		74.7	335	0
Welder / Torch	No	40		74	335	0
Welder / Torch	No	40		74	335	0

	Results	
	Calculated (dBA)	
Equipment	*Lmax	Leq
Crane	64	56.1
Crane	64	56.1
Front End Loader	62.6	58.6
Front End Loader	62.6	58.6
Generator	64.1	61.1
Generator	64.1	61.1
Generator	64.1	61.1
Man Lift	58.2	51.2
Man Lift	58.2	51.2
Welder / Torch	57.5	53.5
Welder / Torch	57.5	53.5

	Total	64.1	68.3	

*Calculated Lmax is the Loudest value.

		---- Receptor #2 ----		
		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Acoustic Center	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Crane	No	16		80.6	565	0
Crane	No	16		80.6	565	0
Front End Loader	No	40		79.1	565	0
Front End Loader	No	40		79.1	565	0
Generator	No	50		80.6	565	0
Generator	No	50		80.6	565	0
Generator	No	50		80.6	565	0
Man Lift	No	20		74.7	565	0
Man Lift	No	20		74.7	565	0
Welder / Torch	No	40		74	565	0
Welder / Torch	No	40		74	565	0

		Results	
		Calculated (dBA)	
Equipment		*Lmax	Leq
Crane		59.5	51.5
Crane		59.5	51.5
Front End Loader		58	54.1
Front End Loader		58	54.1
Generator		59.6	56.6
Generator		59.6	56.6
Generator		59.6	56.6
Man Lift		53.6	46.6
Man Lift		53.6	46.6
Welder / Torch		52.9	49
Welder / Torch		52.9	49
	Total	59.6	63.8

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date:	3/24/2020
Case Description:	OCSD Plant 2: X-031 - Paving

		---- Receptor #1 ----		
		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Nearest Residence	Residential	50	45	40

Equipment

Description	Impact Device	Usage(%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Paver	No	50		77.2	335	0
Roller	No	20		80	335	0
Roller	No	20		80	335	0
Dump Truck	No	40		76.5	335	0
Dump Truck	No	40		76.5	335	0

Results

Calculated (dBA)

Equipment	*Lmax	Leq
Paver	60.7	57.7
Roller	63.5	56.5
Roller	63.5	56.5
Dump Truck	59.9	55.9
Dump Truck	59.9	55.9
Total	63.5	63.6

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Baselines (dBA)

Description	Land Use	Daytime	Evening	Night
Acoustic Center	Residential	50	45	40

Equipment

Description	Impact Device	Usage(%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Paver	No	50		77.2	565	0
Roller	No	20		80	565	0
Roller	No	20		80	565	0
Dump Truck	No	40		76.5	565	0
Dump Truck	No	40		76.5	565	0

Results

Calculated (dBA)

Equipment	*Lmax	Leq
Paver	56.2	53.1
Roller	58.9	51.9
Roller	58.9	51.9
Dump Truck	55.4	51.4
Dump Truck	55.4	51.4
Total	58.9	59

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 3/24/2020
Case Description: OCSD Plant 2: X-031 - Testing

---- Receptor #1 ----

Baselines (dBA)

Description	Land Use	Daytime	Evening	Night
Nearest Residence	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Generator	No	50		80.6	335	0
Generator	No	50		80.6	335	0

Results

Calculated (dBA)

Equipment		*Lmax	Leq
Generator		64.1	61.1
Generator		64.1	61.1
	Total	64.1	64.1

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Baselines (dBA)

Description	Land Use	Daytime	Evening	Night
Acoustic Center	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Generator	No	50		80.6	565	0
Generator	No	50		80.6	565	0

Results

Calculated (dBA)

Equipment		*Lmax	Leq
Generator		59.6	56.6
Generator		59.6	56.6
	Total	59.6	59.6

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 4/2/2020
Case Description: OCSD Joint-Plant 1: X-057/X-058/X-059 - Demolition

---- Receptor #1 ----

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
Nearest Residence	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Excavator	No	40		80.7	115	0
Excavator	No	40		80.7	115	0
Pumps	No	50		80.9	115	0
Pumps	No	50		80.9	115	0
Backhoe	No	40		77.6	115	0
Backhoe	No	40		77.6	115	0
Backhoe	No	40		77.6	115	0
Backhoe	No	40		77.6	115	0

Results

Equipment		Calculated (dBA) *Lmax	Leq
Excavator		73.5	69.5
Excavator		73.5	69.5
Pumps		73.7	70.7
Pumps		73.7	70.7
Backhoe		70.3	66.3
Backhoe		70.3	66.3
Backhoe		70.3	66.3
Backhoe		70.3	66.3
	Total	73.7	77.7

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
Acoustic Center	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Excavator	No	40		80.7	610	0
Excavator	No	40		80.7	610	0
Pumps	No	50		80.9	610	0
Pumps	No	50		80.9	610	0
Backhoe	No	40		77.6	610	0
Backhoe	No	40		77.6	610	0
Backhoe	No	40		77.6	610	0

Backhoe		No	40	77.6	610	0

Results

Calculated (dBA)

Equipment		*Lmax	Leq
Excavator		59	55
Excavator		59	55
Pumps		59.2	56.2
Pumps		59.2	56.2
Backhoe		55.8	51.9
Backhoe		55.8	51.9
Backhoe		55.8	51.9
Backhoe		55.8	51.9
	Total	59.2	63.2

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 4/2/2020
Case Description: OCSD Joint-Plant 1: X-057/X-058/X-059 - Building Construction

---- Receptor #1 ----

Baselines (dBA)

Description	Land Use	Daytime	Evening	Night
Nearest Residence	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Concrete Mixer Truck	No	40		78.8	115	0
Concrete Mixer Truck	No	40		78.8	115	0
Gradall	No	40		83.4	115	0
Gradall	No	40		83.4	115	0
Pumps	No	50		80.9	115	0
Pumps	No	50		80.9	115	0
Front End Loader	No	40		79.1	115	0
Front End Loader	No	40		79.1	115	0
Front End Loader	No	40		79.1	115	0
Front End Loader	No	40		79.1	115	0

Results

Calculated (dBA)

Equipment	*Lmax	Leq
Concrete Mixer Truck	71.6	67.6
Concrete Mixer Truck	71.6	67.6
Gradall	76.2	72.2
Gradall	76.2	72.2
Pumps	73.7	70.7
Pumps	73.7	70.7
Front End Loader	71.9	67.9

Front End Loader		71.9	67.9
Front End Loader		71.9	67.9
Front End Loader		71.9	67.9
	Total	76.2	79.7

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Acoustic Center	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Concrete Mixer Truck	No	40		78.8	610	0
Concrete Mixer Truck	No	40		78.8	610	0
Gradall	No	40		83.4	610	0
Gradall	No	40		83.4	610	0
Pumps	No	50		80.9	610	0
Pumps	No	50		80.9	610	0
Front End Loader	No	40		79.1	610	0
Front End Loader	No	40		79.1	610	0
Front End Loader	No	40		79.1	610	0
Front End Loader	No	40		79.1	610	0

Results

Calculated (dBA)

Equipment	*Lmax	Leq
Concrete Mixer Truck	57.1	53.1
Concrete Mixer Truck	57.1	53.1
Gradall	61.7	57.7
Gradall	61.7	57.7
Pumps	59.2	56.2
Pumps	59.2	56.2
Front End Loader	57.4	53.4
Front End Loader	57.4	53.4
Front End Loader	57.4	53.4
Front End Loader	57.4	53.4
Total	61.7	65.2

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 4/2/2020

Case Description: OCSD Joint-Plant 1: X-057/X-058/X-059 - Structural Rehabilitation

---- Receptor #1 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Nearest Residence	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Compressor (air)	No	40		77.7	115	0
Compressor (air)	No	40		77.7	115	0
Concrete Mixer Truck	No	40		78.8	115	0
Concrete Mixer Truck	No	40		78.8	115	0
Generator	No	50		80.6	115	0
Generator	No	50		80.6	115	0
Pumps	No	50		80.9	115	0
Pumps	No	50		80.9	115	0
Pumps	No	50		80.9	115	0
Pumps	No	50		80.9	115	0

Results

Calculated (dBA)

Equipment	*Lmax	Leq
Compressor (air)	70.4	66.5
Compressor (air)	70.4	66.5
Concrete Mixer Truck	71.6	67.6
Concrete Mixer Truck	71.6	67.6
Generator	73.4	70.4
Generator	73.4	70.4
Pumps	73.7	70.7
Pumps	73.7	70.7
Pumps	73.7	70.7
Pumps	73.7	70.7
Total	73.7	79.5

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Baselines (dBA)

Description	Land Use	Daytime	Evening	Night
Acoustic Center	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Compressor (air)	No	40		77.7	610	0
Compressor (air)	No	40		77.7	610	0
Concrete Mixer Truck	No	40		78.8	610	0
Concrete Mixer Truck	No	40		78.8	610	0
Generator	No	50		80.6	610	0
Generator	No	50		80.6	610	0
Pumps	No	50		80.9	610	0
Pumps	No	50		80.9	610	0
Pumps	No	50		80.9	610	0
Pumps	No	50		80.9	610	0

Results

Calculated (dBA)

Equipment		*Lmax	Leq
Compressor (air)		55.9	52
Compressor (air)		55.9	52
Concrete Mixer Truck		57.1	53.1
Concrete Mixer Truck		57.1	53.1
Generator		58.9	55.9
Generator		58.9	55.9
Pumps		59.2	56.2
Pumps		59.2	56.2
Pumps		59.2	56.2
Pumps		59.2	56.2
	Total	59.2	65

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 4/2/2020
Case Description: OCSD Joint-Plant 1: X-057/X-058/X-059 - Testing

---- Receptor #1 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Nearest Residence	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Generator	No	50		80.6	115	0
Generator	No	50		80.6	115	0

Results

Calculated (dBA)

Equipment		*Lmax	Leq
Generator		73.4	70.4
Generator		73.4	70.4
	Total	73.4	73.4

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Acoustic Center	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Generator	No	50		80.6	610	0
Generator	No	50		80.6	610	0

Results

		Calculated (dBA)	
Equipment		*Lmax	Leq
Generator		58.9	55.9
Generator		58.9	55.9
	Total	58.9	58.9

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 4/2/2020
Case Description: OCSD Joint-Plant 2: X-057/X-058/X-059 - Demolition

---- Receptor #1 ----

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
Nearest Residence	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Excavator	No	40		80.7	165	0
Excavator	No	40		80.7	165	0
Pumps	No	50		80.9	165	0
Pumps	No	50		80.9	165	0
Backhoe	No	40		77.6	165	0
Backhoe	No	40		77.6	165	0
Backhoe	No	40		77.6	165	0
Backhoe	No	40		77.6	165	0

Results

Equipment		Calculated (dBA) *Lmax	Leq
Excavator		70.3	66.4
Excavator		70.3	66.4
Pumps		70.6	67.6
Pumps		70.6	67.6
Backhoe		67.2	63.2
Backhoe		67.2	63.2
Backhoe		67.2	63.2
Backhoe		67.2	63.2
	Total	70.6	74.5

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
Acoustic Center	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Excavator	No	40		80.7	650	0
Excavator	No	40		80.7	650	0
Pumps	No	50		80.9	650	0
Pumps	No	50		80.9	650	0
Backhoe	No	40		77.6	650	0
Backhoe	No	40		77.6	650	0
Backhoe	No	40		77.6	650	0

Backhoe		No	40	77.6	650	0

Results

Calculated (dBA)

Equipment		*Lmax	Leq
Excavator		58.4	54.5
Excavator		58.4	54.5
Pumps		58.7	55.7
Pumps		58.7	55.7
Backhoe		55.3	51.3
Backhoe		55.3	51.3
Backhoe		55.3	51.3
Backhoe		55.3	51.3
	Total	58.7	62.6

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 4/2/2020
Case Description: OCSD Joint-Plant 2: X-057/X-058/X-059 - Building Construction

---- Receptor #1 ----

Baselines (dBA)

Description	Land Use	Daytime	Evening	Night
Nearest Residence	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Concrete Mixer Truck	No	40		78.8	165	0
Concrete Mixer Truck	No	40		78.8	165	0
Gradall	No	40		83.4	165	0
Gradall	No	40		83.4	165	0
Pumps	No	50		80.9	165	0
Pumps	No	50		80.9	165	0
Front End Loader	No	40		79.1	165	0
Front End Loader	No	40		79.1	165	0
Front End Loader	No	40		79.1	165	0
Front End Loader	No	40		79.1	165	0

Results

Calculated (dBA)

Equipment	*Lmax	Leq
Concrete Mixer Truck	68.4	64.5
Concrete Mixer Truck	68.4	64.5
Gradall	73	69.1
Gradall	73	69.1
Pumps	70.6	67.6
Pumps	70.6	67.6
Front End Loader	68.7	64.8

Front End Loader		68.7	64.8
Front End Loader		68.7	64.8
Front End Loader		68.7	64.8
	Total	73	76.5

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Acoustic Center	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Concrete Mixer Truck	No	40		78.8	650	0
Concrete Mixer Truck	No	40		78.8	650	0
Gradall	No	40		83.4	650	0
Gradall	No	40		83.4	650	0
Pumps	No	50		80.9	650	0
Pumps	No	50		80.9	650	0
Front End Loader	No	40		79.1	650	0
Front End Loader	No	40		79.1	650	0
Front End Loader	No	40		79.1	650	0
Front End Loader	No	40		79.1	650	0

Results

Calculated (dBA)

Equipment	*Lmax	Leq
Concrete Mixer Truck	56.5	52.5
Concrete Mixer Truck	56.5	52.5
Gradall	61.1	57.1
Gradall	61.1	57.1
Pumps	58.7	55.7
Pumps	58.7	55.7
Front End Loader	56.8	52.9
Front End Loader	56.8	52.9
Front End Loader	56.8	52.9
Front End Loader	56.8	52.9
Total	61.1	64.6

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 4/2/2020
Case Description: OCSD Joint-Plant 2: X-057/X-058/X-059 - Structural Rehabilitation

---- Receptor #1 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Nearest Residence	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Compressor (air)	No	40		77.7	165	0
Compressor (air)	No	40		77.7	165	0
Concrete Mixer Truck	No	40		78.8	165	0
Concrete Mixer Truck	No	40		78.8	165	0
Generator	No	50		80.6	165	0
Generator	No	50		80.6	165	0
Pumps	No	50		80.9	165	0
Pumps	No	50		80.9	165	0
Pumps	No	50		80.9	165	0
Pumps	No	50		80.9	165	0

Results

Calculated (dBA)

Equipment		*Lmax	Leq
Compressor (air)		67.3	63.3
Compressor (air)		67.3	63.3
Concrete Mixer Truck		68.4	64.5
Concrete Mixer Truck		68.4	64.5
Generator		70.3	67.2
Generator		70.3	67.2
Pumps		70.6	67.6
Pumps		70.6	67.6
Pumps		70.6	67.6
Pumps		70.6	67.6
	Total	70.6	76.4

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Baselines (dBA)

Description	Land Use	Daytime	Evening	Night
Acoustic Center	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Compressor (air)	No	40		77.7	650	0
Compressor (air)	No	40		77.7	650	0
Concrete Mixer Truck	No	40		78.8	650	0
Concrete Mixer Truck	No	40		78.8	650	0
Generator	No	50		80.6	650	0
Generator	No	50		80.6	650	0
Pumps	No	50		80.9	650	0
Pumps	No	50		80.9	650	0
Pumps	No	50		80.9	650	0
Pumps	No	50		80.9	650	0

Results

Calculated (dBA)

Equipment		*Lmax	Leq
Compressor (air)		55.4	51.4
Compressor (air)		55.4	51.4
Concrete Mixer Truck		56.5	52.5
Concrete Mixer Truck		56.5	52.5
Generator		58.4	55.3
Generator		58.4	55.3
Pumps		58.7	55.7
Pumps		58.7	55.7
Pumps		58.7	55.7
Pumps		58.7	55.7
	Total	58.7	64.5

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 4/2/2020
Case Description: OCSD Joint-Plant 1: X-057/X-058/X-059 - Testing

---- Receptor #1 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Nearest Residence	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Generator	No	50		80.6	165	0
Generator	No	50		80.6	165	0

Results

Calculated (dBA)

Equipment		*Lmax	Leq
Generator		70.3	67.2
Generator		70.3	67.2
	Total	70.3	70.3

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Acoustic Center	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Generator	No	50		80.6	650	0
Generator	No	50		80.6	650	0

Results

		Calculated (dBA)	
Equipment		*Lmax	Leq
Generator		58.4	55.3
Generator		58.4	55.3
	Total	58.4	58.4

*Calculated Lmax is the Loudest value.

Report date: 4/7/2020
Case Description: OCSD CS 11-33 - Demolition

---- Receptor #1 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Nearest Residence	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Backhoe	No	40		77.6	90	0
Backhoe	No	40		77.6	110	0
Crane	No	16		80.6	120	0
Gradall	No	40		83.4	90	0
Pumps	No	50		80.9	130	0

Results

	Calculated (dBA)		Noise Limits (dBA)			
			Day		Evening	
Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq
Backhoe	72.5	68.5	N/A	N/A	N/A	N/A
Backhoe	70.7	66.7	N/A	N/A	N/A	N/A
Crane	72.9	65	N/A	N/A	N/A	N/A
Gradall	78.3	74.3	N/A	N/A	N/A	N/A
Pumps	72.6	69.6	N/A	N/A	N/A	N/A
Total	78.3	77.1	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Typical	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Backhoe	No	40		77.6	250	0
Backhoe	No	40		77.6	250	0
Crane	No	16		80.6	250	0
Gradall	No	40		83.4	250	0
Pumps	No	50		80.9	250	0

Results

	Calculated (dBA)		Noise Limits (dBA)			
			Day		Evening	
Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq
Backhoe	63.6	59.6	N/A	N/A	N/A	N/A
Backhoe	63.6	59.6	N/A	N/A	N/A	N/A
Crane	66.6	58.6	N/A	N/A	N/A	N/A

Gradall		69.4	65.4	N/A	N/A	N/A	N/A
Pumps		67	64	N/A	N/A	N/A	N/A
	Total	69.4	69.3	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 4/7/2020
Case Description: OCSD CS 11-33 - Structural Rehabilitation

---- Receptor #1 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Nearest Residence	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Generator	No	50		80.6	90	0
Generator	No	50		80.6	110	0
Concrete Mixer Truck	No	40		78.8	100	0
Compressor (air)	No	40		77.7	120	0
Pumps	No	50		80.9	90	0

		Results					
		Calculated (dBA)		Noise Limits (dBA)			
				Day		Evening	
Equipment		*Lmax	Leq	Lmax	Leq	Lmax	Leq
Generator		75.5	72.5	N/A	N/A	N/A	N/A
Generator		73.8	70.8	N/A	N/A	N/A	N/A
Concrete Mixer Truck		72.8	68.8	N/A	N/A	N/A	N/A
Compressor (air)		70.1	66.1	N/A	N/A	N/A	N/A
Pumps		75.8	72.8	N/A	N/A	N/A	N/A
	Total	75.8	77.8	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Typical	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Generator	No	50		80.6	250	0
Generator	No	50		80.6	250	0
Concrete Mixer Truck	No	40		78.8	250	0
Compressor (air)	No	40		77.7	250	0
Pumps	No	50		80.9	250	0

Results

		Calculated (dBA)		Noise Limits (dBA)			
				Day		Evening	
Equipment		*Lmax	Leq	Lmax	Leq	Lmax	Leq
Generator		66.7	63.6	N/A	N/A	N/A	N/A
Generator		66.7	63.6	N/A	N/A	N/A	N/A
Concrete Mixer Truck		64.8	60.8	N/A	N/A	N/A	N/A
Compressor (air)		63.7	59.7	N/A	N/A	N/A	N/A
Pumps		67	64	N/A	N/A	N/A	N/A
	Total	67	69.7	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 4/7/2020
Case Description: OCSD CS 11-33 - Building Construction

---- Receptor #1 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Nearest Residence	Residential	50	45	40

			Equipment			
			Spec	Actual	Receptor	Estimated
	Impact		Lmax	Lmax	Distance	Shielding
Description	Device	Usage(%)	(dBA)	(dBA)	(feet)	(dBA)
Gradall	No	40		83.4	90	0
Generator	No	50		80.6	100	0
Generator	No	50		80.6	120	0
Generator	No	50		80.6	140	0
Generator	No	50		80.6	90	0
Concrete Mixer Truck	No	40		78.8	120	0
Man Lift	No	20		74.7	120	0
Welder / Torch	No	40		74	110	0
Paver	No	50		77.2	130	0
Pumps	No	50		80.9	110	0

Results

		Calculated (dBA)		Noise Limits (dBA)			
				Day		Evening	
Equipment		*Lmax	Leq	Lmax	Leq	Lmax	Leq
Gradall		78.3	74.3	N/A	N/A	N/A	N/A
Generator		74.6	71.6	N/A	N/A	N/A	N/A
Generator		73	70	N/A	N/A	N/A	N/A
Generator		71.7	68.7	N/A	N/A	N/A	N/A
Generator		75.5	72.5	N/A	N/A	N/A	N/A
Concrete Mixer Truck		71.2	67.2	N/A	N/A	N/A	N/A
Man Lift		67.1	60.1	N/A	N/A	N/A	N/A
Welder / Torch		67.2	63.2	N/A	N/A	N/A	N/A
Paver		68.9	65.9	N/A	N/A	N/A	N/A
Pumps		74.1	71.1	N/A	N/A	N/A	N/A
	Total	78.3	80.1	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Baselines (dBA)

Description	Land Use	Daytime	Evening	Night
Typical	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Gradall	No	40		83.4	250	0
Generator	No	50		80.6	250	0
Generator	No	50		80.6	250	0
Generator	No	50		80.6	250	0
Generator	No	50		80.6	250	0
Concrete Mixer Truck	No	40		78.8	250	0
Man Lift	No	20		74.7	250	0
Welder / Torch	No	40		74	250	0
Paver	No	50		77.2	250	0
Pumps	No	50		80.9	250	0

Results

	Calculated (dBA)		Day		Evening	
Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq
Gradall	69.4	65.4	N/A	N/A	N/A	N/A
Generator	66.7	63.6	N/A	N/A	N/A	N/A
Generator	66.7	63.6	N/A	N/A	N/A	N/A
Generator	66.7	63.6	N/A	N/A	N/A	N/A
Generator	66.7	63.6	N/A	N/A	N/A	N/A
Concrete Mixer Truck	64.8	60.8	N/A	N/A	N/A	N/A
Man Lift	60.7	53.7	N/A	N/A	N/A	N/A
Welder / Torch	60	56	N/A	N/A	N/A	N/A
Paver	63.2	60.2	N/A	N/A	N/A	N/A
Pumps	67	64	N/A	N/A	N/A	N/A
Total	69.4	72.6	N/A	N/A	N/A	N/A

Noise Limits (dBA)

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 3/31/2020
Case Description: OCSD CS 11-33 - Testing

---- Receptor #1 ----

Baselines (dBA)

Description	Land Use	Daytime	Evening	Night
Nearest Residence	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Generator	No	50		80.6	90	0

Results

Calculated (dBA)

Equipment		*Lmax	Leq
Generator		75.5	72.5
	Total	75.5	72.5

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Baselines (dBA)

Description	Land Use	Daytime	Evening	Night
Typical	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Generator	No	50		80.6	250	0

Results

Calculated (dBA)

Equipment		*Lmax	Leq
Generator		66.7	63.6
	Total	66.7	63.6

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 4/1/2020
Case Description: OCSD CS X-022 - Demolition

---- Receptor #1 ----

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
Nearest Residence	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Crane	No	16		80.6	125	0
Pumps	No	50		80.9	125	0
Backhoe	No	40		77.6	125	0
Backhoe	No	40		77.6	125	0

Results

Calculated (dBA)

Equipment	*Lmax	Leq
Crane	72.6	64.6
Pumps	73	70
Backhoe	69.6	65.6
Backhoe	69.6	65.6
Total	73	73

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
Typical	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Crane	No	16		80.6	250	0
Pumps	No	50		80.9	250	0
Backhoe	No	40		77.6	250	0
Backhoe	No	40		77.6	250	0

Results

Calculated (dBA)

Equipment	*Lmax	Leq
Crane	66.6	58.6
Pumps	67	64

Backhoe		63.6	59.6
Backhoe		63.6	59.6
	Total	67	67

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 4/1/2020
Case Description: OCSD CS X-022 - Building Construction

---- Receptor #1 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Nearest Residence	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Man Lift	No	20		74.7	125	0
Crane	No	16		80.6	125	0
Gradall	No	40		83.4	125	0
Pumps	No	50		80.9	125	0
Welder / Torch	No	40		74	125	0

Results

	Calculated (dBA)	
Equipment	*Lmax	Leq
Man Lift	66.7	59.8
Crane	72.6	64.6
Gradall	75.4	71.5
Pumps	73	70
Welder / Torch	66	62.1
Total	75.4	74.7

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Typical	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Man Lift	No	20		74.7	250	0
Crane	No	16		80.6	250	0
Gradall	No	40		83.4	250	0

Pumps	No	50	80.9	250	0
Welder / Torch	No	40	74	250	0

Results

Calculated (dBA)

Equipment	*Lmax	Leq
Man Lift	60.7	53.7
Crane	66.6	58.6
Gradall	69.4	65.4
Pumps	67	64
Welder / Torch	60	56
Total	69.4	68.7

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 4/1/2020
Case Description: OCSD CS X-022 - Pipeline Lining

---- Receptor #1 ----

Baselines (dBA)

Description	Land Use	Daytime	Evening	Night
Nearest Residence	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Generator	No	50		80.6	125	0
Generator	No	50		80.6	125	0
Pumps	No	50		80.9	125	0
Pumps	No	50		80.9	125	0

Results

Calculated (dBA)

Equipment	*Lmax	Leq
Generator	72.7	69.7
Generator	72.7	69.7
Pumps	73	70
Pumps	73	70
Total	73	75.8

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Baselines (dBA)

Description	Land Use	Daytime	Evening	Night
Typical	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Generator	No	50		80.6	250	0
Generator	No	50		80.6	250	0
Pumps	No	50		80.9	250	0
Pumps	No	50		80.9	250	0

Results

Calculated (dBA)

Equipment	*Lmax	Leq
Generator	66.7	63.6
Generator	66.7	63.6
Pumps	67	64
Pumps	67	64
Total	67	69.8

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 4/1/2020
Case Description: OCSD CS X-022 - Testing

---- Receptor #1 ----

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
Nearest Residence	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Generator	No	50		80.6	125	0

Results

Calculated (dBA)

Equipment	*Lmax	Leq
Generator	72.7	69.7
Total	72.7	69.7

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
Typical	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Generator	No	50		80.6	250	0

Results

Calculated (dBA)

Equipment		*Lmax	Leq
Generator		66.7	63.6
	Total	66.7	63.6

*Calculated Lmax is the Loudest value.

Report date: 4/7/2020
Case Description: OCSD CS X-026 - Pipeline Installation

---- Receptor #1 ----

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
Nearest Residence	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Concrete Saw	No	20		89.6	40	0
Excavator	No	40		80.7	50	0
Gradall	No	40		83.4	60	0
Pumps	No	50		80.9	70	0
Front End Loader	No	40		79.1	50	0

		Results Calculated (dBA)		Noise Limits (dBA) Day		Evening	
Equipment		*Lmax	Leq	Lmax	Leq	Lmax	Leq
Concrete Saw		91.5	84.5	N/A	N/A	N/A	N/A
Excavator		80.7	76.7	N/A	N/A	N/A	N/A
Gradall		81.8	77.8	N/A	N/A	N/A	N/A
Pumps		78	75	N/A	N/A	N/A	N/A
Front End Loader		79.1	75.1	N/A	N/A	N/A	N/A
	Total	91.5	86.6	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
Typical	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Concrete Saw	No	20		89.6	250	0
Excavator	No	40		80.7	250	0
Gradall	No	40		83.4	250	0
Pumps	No	50		80.9	250	0
Front End Loader	No	40		79.1	250	0

	Results Calculated (dBA)		Noise Limits (dBA) Day		Evening	
Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq
Concrete Saw	75.6	68.6	N/A	N/A	N/A	N/A
Excavator	66.7	62.8	N/A	N/A	N/A	N/A
Gradall	69.4	65.4	N/A	N/A	N/A	N/A

Pumps		67	64	N/A	N/A	N/A	N/A
Front End Loader		65.1	61.2	N/A	N/A	N/A	N/A
	Total	75.6	72.2	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 4/7/2020
Case Description: OCSD CS X-026 - Paving

---- Receptor #1 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Nearest Residence	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Paver	No	50		77.2	40	0
Dump Truck	No	40		76.5	50	0
Roller	No	20		80	60	0

		Results					
		Calculated (dBA)		Noise Limits (dBA)			
				Day		Evening	
Equipment		*Lmax	Leq	Lmax	Leq	Lmax	Leq
Paver		79.2	76.1	N/A	N/A	N/A	N/A
Dump Truck		76.5	72.5	N/A	N/A	N/A	N/A
Roller		78.4	71.4	N/A	N/A	N/A	N/A
	Total	79.2	78.6	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Typical	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Paver	No	50		77.2	250	0
Dump Truck	No	40		76.5	250	0
Roller	No	20		80	250	0

		Results					
		Calculated (dBA)		Noise Limits (dBA)			
				Day		Evening	
Equipment		*Lmax	Leq	Lmax	Leq	Lmax	Leq
Paver		63.2	60.2	N/A	N/A	N/A	N/A
Dump Truck		62.5	58.5	N/A	N/A	N/A	N/A
Roller		66	59	N/A	N/A	N/A	N/A

	Total	66	64.1	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 4/1/2020
Case Description: OCSD CS X-026 - Architectural Coating

---- Receptor #1 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Nearest Residence	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Compressor (air)	No	40		77.7	40	0

Results

	Calculated (dBA)	
Equipment	*Lmax	Leq
Compressor (air)	79.6	75.6
Total	79.6	75.6

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Typical	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Compressor (air)	No	40		77.7	250	0

Results

	Calculated (dBA)	
Equipment	*Lmax	Leq
Compressor (air)	63.7	59.7
Total	63.7	59.7

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 4/1/2020
Case Description: OCSD CS X-026 - Testing

---- Receptor #1 ----

Baselines (dBA)

Description	Land Use	Daytime	Evening	Night
Nearest Residence	Residential	50	45	40

Equipment

Description	Impact Device	Usage(%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Generator	No	50		80.6	40	0

Results

Calculated (dBA)

Equipment		*Lmax	Leq
Generator		82.6	79.6
	Total	82.6	79.6

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Baselines (dBA)

Description	Land Use	Daytime	Evening	Night
Typical	Residential	50	45	40

Equipment

Description	Impact Device	Usage(%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Generator	No	50		80.6	250	0

Results

Calculated (dBA)

Equipment		*Lmax	Leq
Generator		66.7	63.6
	Total	66.7	63.6

*Calculated Lmax is the Loudest value.

Report date: 4/7/2020
Case Description: OCSD CS X-040 - Demolition

---- Receptor #1 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Nearest Residence	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Backhoe	No	40		77.6	10	5
Backhoe	No	40		77.6	20	5
Excavator	No	40		80.7	30	5
Pumps	No	50		80.9	20	5

Results

	Calculated (dBA)		Noise Limits (dBA)			
			Day		Evening	
Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq
Backhoe	86.5	82.6	N/A	N/A	N/A	N/A
Backhoe	80.5	76.5	N/A	N/A	N/A	N/A
Excavator	80.1	76.2	N/A	N/A	N/A	N/A
Pumps	83.9	80.9	N/A	N/A	N/A	N/A
Total	86.5	85.9	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Typical	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Backhoe	No	40		77.6	250	5
Backhoe	No	40		77.6	250	5
Excavator	No	40		80.7	250	5
Pumps	No	50		80.9	250	5

Results

	Calculated (dBA)		Noise Limits (dBA)			
			Day		Evening	
Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq
Backhoe	58.6	54.6	N/A	N/A	N/A	N/A
Backhoe	58.6	54.6	N/A	N/A	N/A	N/A
Excavator	61.7	57.8	N/A	N/A	N/A	N/A
Pumps	62	59	N/A	N/A	N/A	N/A
Total	62	62.9	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

Report date: 4/7/2020
Case Description: OCSD CS X-040 - Structural Rehabilitation

---- Receptor #1 ----

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
Nearest Residence	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Compressor (air)	No	40		77.7	10	5
Concrete Mixer Truck	No	40		78.8	20	5
Generator	No	50		80.6	30	5
Generator	No	50		80.6	40	5
Pumps	No	50		80.9	20	5

Results

Equipment	Calculated (dBA) *Lmax	Leq	Day Lmax	Day Leq	Evening Lmax	Evening Leq
Compressor (air)	86.6	82.7	N/A	N/A	N/A	N/A
Concrete Mixer Truck	81.8	77.8	N/A	N/A	N/A	N/A
Generator	80.1	77.1	N/A	N/A	N/A	N/A
Generator	77.6	74.6	N/A	N/A	N/A	N/A
Pumps	83.9	80.9	N/A	N/A	N/A	N/A
Total	86.6	86.5	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
Typical	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Compressor (air)	No	40		77.7	250	5
Concrete Mixer Truck	No	40		78.8	250	5
Generator	No	50		80.6	250	5
Generator	No	50		80.6	250	5
Pumps	No	50		80.9	250	5

Results

Equipment	Calculated (dBA) *Lmax	Leq	Day Lmax	Day Leq	Evening Lmax	Evening Leq
Compressor (air)	58.7	54.7	N/A	N/A	N/A	N/A

Concrete Mixer Truck		59.8	55.8	N/A	N/A	N/A	N/A
Generator		61.7	58.6	N/A	N/A	N/A	N/A
Generator		61.7	58.6	N/A	N/A	N/A	N/A
Pumps		62	59	N/A	N/A	N/A	N/A
	Total	62	64.7	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 4/7/2020
Case Description: OCSD CS X-040 - Building Construction

---- Receptor #1 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Nearest Residence	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Gradall	No	40		83.4	10	5
Front End Loader	No	40		79.1	20	5
Front End Loader	No	40		79.1	40	5
Man Lift	No	20		74.7	20	5
Generator	No	50		80.6	30	5
Generator	No	50		80.6	50	5
Paver	No	50		77.2	10	5
Pumps	No	50		80.9	30	5
Welder / Torch	No	40		74	20	5

			Results			
	Calculated (dBA)		Noise Limits (dBA)			
			Day		Evening	
Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq
Gradall	92.4	88.4	N/A	N/A	N/A	N/A
Front End Loader	82.1	78.1	N/A	N/A	N/A	N/A
Front End Loader	76	72.1	N/A	N/A	N/A	N/A
Man Lift	77.7	70.7	N/A	N/A	N/A	N/A
Generator	80.1	77.1	N/A	N/A	N/A	N/A
Generator	75.6	72.6	N/A	N/A	N/A	N/A
Paver	86.2	83.2	N/A	N/A	N/A	N/A
Pumps	80.4	77.4	N/A	N/A	N/A	N/A
Welder / Torch	77	73	N/A	N/A	N/A	N/A
Total	92.4	90.6	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Typical	Residential	50	45	40

Equipment

Description	Impact Device	Usage(%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Gradall	No	40		83.4	250	5
Front End Loader	No	40		79.1	250	5
Front End Loader	No	40		79.1	250	5
Man Lift	No	20		74.7	250	5
Generator	No	50		80.6	250	5
Generator	No	50		80.6	250	5
Paver	No	50		77.2	250	5
Pumps	No	50		80.9	250	5
Welder / Torch	No	40		74	250	5

		Results				
		Calculated (dBA)		Noise Limits (dBA)		
				Day	Evening	
Equipment		*Lmax	Leq	Lmax Leq	Lmax	Leq
Gradall		64.4	60.4	N/A N/A	N/A	N/A
Front End Loader		60.1	56.2	N/A N/A	N/A	N/A
Front End Loader		60.1	56.2	N/A N/A	N/A	N/A
Man Lift		55.7	48.7	N/A N/A	N/A	N/A
Generator		61.7	58.6	N/A N/A	N/A	N/A
Generator		61.7	58.6	N/A N/A	N/A	N/A
Paver		58.2	55.2	N/A N/A	N/A	N/A
Pumps		62	59	N/A N/A	N/A	N/A
Welder / Torch		55	51	N/A N/A	N/A	N/A
	Total	64.4	66.7	N/A N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 4/2/2020
Case Description: OCSD CS X-040 - Testing

		Baselines (dBA)		---- Receptor #1 ----
Description	Land Use	Daytime	Evening	Night
Nearest Residence	Residential	50	45	40

Equipment

Description	Impact Device	Usage(%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Generator	No	50		80.6	10	5

		Results	
		Calculated (dBA)	
Equipment		*Lmax	Leq
Generator		89.6	86.6
	Total	89.6	86.6

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Baselines (dBA)

Description	Land Use	Daytime	Evening	Night
Typical	Residential	50	45	40

Equipment

Description	Impact Device	Usage(%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Generator	No	50		80.6	250	5

Results

Calculated (dBA)

Equipment	*Lmax	Leq
Generator	61.7	58.6
Total	61.7	58.6

*Calculated Lmax is the Loudest value.

Report date: 4/7/2020
Case Description: OCSD CS X-071 - Pipeline Installation

---- Receptor #1 ----

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
Nearest Residence	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Concrete Saw	No	20		89.6	55	0
Backhoe	No	40		77.6	70	0
Excavator	No	40		80.7	80	0
Gradall	No	40		83.4	60	0
Pumps	No	50		80.9	70	0

Equipment		Results Calculated (dBA) *Lmax	Leq	Noise Limits (dBA) Day Lmax	Day Leq	Evening Lmax	Evening Leq
Concrete Saw		88.8	81.8	N/A	N/A	N/A	N/A
Backhoe		74.6	70.7	N/A	N/A	N/A	N/A
Excavator		76.6	72.6	N/A	N/A	N/A	N/A
Gradall		81.8	77.8	N/A	N/A	N/A	N/A
Pumps		78	75	N/A	N/A	N/A	N/A
	Total	88.8	84.4	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
Typical	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Concrete Saw	No	20		89.6	250	0
Backhoe	No	40		77.6	250	0
Excavator	No	40		80.7	250	0
Gradall	No	40		83.4	250	0
Pumps	No	50		80.9	250	0

Equipment	Results Calculated (dBA) *Lmax	Leq	Noise Limits (dBA) Day Lmax	Day Leq	Evening Lmax	Evening Leq
Concrete Saw	75.6	68.6	N/A	N/A	N/A	N/A
Backhoe	63.6	59.6	N/A	N/A	N/A	N/A
Excavator	66.7	62.8	N/A	N/A	N/A	N/A

Gradall		69.4	65.4	N/A	N/A	N/A	N/A
Pumps		67	64	N/A	N/A	N/A	N/A
	Total	75.6	72.1	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 4/7/2020
Case Description: OCSD CS X-071 - Paving

---- Receptor #1 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Nearest Residence	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Paver	No	50		77.2	55	0
Roller	No	20		80	70	0
Dump Truck	No	40		76.5	80	0

		Results					
		Calculated (dBA)		Noise Limits (dBA)			
				Day		Evening	
Equipment		*Lmax	Leq	Lmax	Leq	Lmax	Leq
Paver		76.4	73.4	N/A	N/A	N/A	N/A
Roller		77.1	70.1	N/A	N/A	N/A	N/A
Dump Truck		72.4	68.4	N/A	N/A	N/A	N/A
	Total	77.1	75.9	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Typical	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Paver	No	50		77.2	250	0
Roller	No	20		80	250	0
Dump Truck	No	40		76.5	250	0

		Results					
		Calculated (dBA)		Noise Limits (dBA)			
				Day		Evening	
Equipment		*Lmax	Leq	Lmax	Leq	Lmax	Leq
Paver		63.2	60.2	N/A	N/A	N/A	N/A
Roller		66	59	N/A	N/A	N/A	N/A
Dump Truck		62.5	58.5	N/A	N/A	N/A	N/A

	Total	66	64.1	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 3/30/2020
Case Description: OCSD CS X-071 - Architectural Coating

---- Receptor #1 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Nearest Residence	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Compressor (air)	No	40		77.7	55	0

Results

	Calculated (dBA)	
Equipment	*Lmax	Leq
Compressor (air)	76.8	72.9
Total	76.8	72.9

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Typical	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Compressor (air)	No	40		77.7	250	0

Results

	Calculated (dBA)	
Equipment	*Lmax	Leq
Compressor (air)	63.7	59.7
Total	63.7	59.7

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 3/30/2020
Case Description: OCSD CS X-071 - Testing

				---- Receptor #1 ----				
		Baselines (dBA)						
Description	Land Use	Daytime	Evening	Night				
Nearest Residence	Residential	50	45	40				
					Equipment			
					Spec	Actual	Receptor	Estimated
		Impact			Lmax	Lmax	Distance	Shielding
Description		Device	Usage(%)		(dBA)	(dBA)	(feet)	(dBA)
Generator		No	50			80.6	55	0
					Results			
		Calculated (dBA)						
Equipment		*Lmax	Leq					
Generator		79.8	76.8					
	Total	79.8	76.8					
		*Calculated Lmax is the Loudest value.						
				---- Receptor #2 ----				
		Baselines (dBA)						
Description	Land Use	Daytime	Evening	Night				
Typical	Residential	50	45	40				
					Equipment			
					Spec	Actual	Receptor	Estimated
		Impact			Lmax	Lmax	Distance	Shielding
Description		Device	Usage(%)		(dBA)	(dBA)	(feet)	(dBA)
Generator		No	50			80.6	250	0
					Results			
		Calculated (dBA)						
Equipment		*Lmax	Leq					
Generator		66.7	63.6					
	Total	66.7	63.6					
		*Calculated Lmax is the Loudest value.						

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 4/7/2020
Case Description: OCSD CS X-071 - Pipeline Lining

				---- Receptor #1 ----				
		Baselines (dBA)						
Description	Land Use	Daytime	Evening	Night				
Nearest Residence	Residential	50	45	40				
					Equipment			
					Spec	Actual	Receptor	Estimated
		Impact			Lmax	Lmax	Distance	Shielding
Description		Device	Usage(%)		(dBA)	(dBA)	(feet)	(dBA)
Generator		No	50			80.6	55	0

Pumps	No	50	80.9	70	0
Pumps	No	50	80.9	80	0

		Results			
	Calculated (dBA)		Noise Limits (dBA)		
		Day		Evening	
Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq
Generator	79.8	76.8	N/A	N/A	N/A	N/A
Pumps	78	75	N/A	N/A	N/A	N/A
Pumps	76.9	73.8	N/A	N/A	N/A	N/A
Total	79.8	80.2	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

		---- Receptor #2 ----		
		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Typical	Residential	50	45	40

			Equipment			
			Spec	Actual	Receptor	Estimated
	Impact		Lmax	Lmax	Distance	Shielding
Description	Device	Usage(%)	(dBA)	(dBA)	(feet)	(dBA)
Generator	No	50		80.6	250	0
Pumps	No	50		80.9	250	0
Pumps	No	50		80.9	250	0

		Results			
	Calculated (dBA)		Noise Limits (dBA)		
		Day		Evening	
Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq
Generator	66.7	63.6	N/A	N/A	N/A	N/A
Pumps	67	64	N/A	N/A	N/A	N/A
Pumps	67	64	N/A	N/A	N/A	N/A
Total	67	68.6	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 4/7/2020
Case Description: OCSD CS X-071 - Manhole Rehabilitation

		---- Receptor #1 ----		
		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Nearest Residence	Residential	50	45	40

			Equipment			
			Spec	Actual	Receptor	Estimated
	Impact		Lmax	Lmax	Distance	Shielding
Description	Device	Usage(%)	(dBA)	(dBA)	(feet)	(dBA)
Compressor (air)	No	40		77.7	55	0
Compressor (air)	No	40		77.7	70	0

		Results					
		Calculated (dBA)		Noise Limits (dBA)			
				Day		Evening	
Equipment		*Lmax	Leq	Lmax	Leq	Lmax	Leq
Compressor (air)		76.8	72.9	N/A	N/A	N/A	N/A
Compressor (air)		74.7	70.8	N/A	N/A	N/A	N/A
	Total	76.8	75	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

		---- Receptor #2 ----		
		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Typical	Residential	50	45	40

			Equipment			
			Spec	Actual	Receptor	Estimated
	Impact		Lmax	Lmax	Distance	Shielding
Description	Device	Usage(%)	(dBA)	(dBA)	(feet)	(dBA)
Compressor (air)	No	40		77.7	250	0
Compressor (air)	No	40		77.7	250	0

		Results					
		Calculated (dBA)		Noise Limits (dBA)			
				Day		Evening	
Equipment		*Lmax	Leq	Lmax	Leq	Lmax	Leq
Compressor (air)		63.7	59.7	N/A	N/A	N/A	N/A
Compressor (air)		63.7	59.7	N/A	N/A	N/A	N/A
	Total	63.7	62.7	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

Report date: 4/7/2020
Case Description: OCSD CS X-082 - Pipeline Installation

---- Receptor #1 ----

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
Nearest Residence	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Concrete Saw	No	20		89.6	30	0
Excavator	No	40		80.7	40	0
Gradall	No	40		83.4	50	0
Pumps	No	50		80.9	40	0
Backhoe	No	40		77.6	60	0

Equipment	Calculated (dBA) *Lmax	Leq	Results Noise Limits (dBA) Day Lmax	Day Leq	Evening Lmax	Evening Leq
Concrete Saw	94	87	N/A	N/A	N/A	N/A
Excavator	82.6	78.7	N/A	N/A	N/A	N/A
Gradall	83.4	79.4	N/A	N/A	N/A	N/A
Pumps	82.9	79.9	N/A	N/A	N/A	N/A
Backhoe	76	72	N/A	N/A	N/A	N/A
Total	94	88.9	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
Typical	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Concrete Saw	No	20		89.6	250	0
Excavator	No	40		80.7	250	0
Gradall	No	40		83.4	250	0
Pumps	No	50		80.9	250	0
Backhoe	No	40		77.6	250	0

Equipment	Calculated (dBA) *Lmax	Leq	Results Noise Limits (dBA) Day Lmax	Day Leq	Evening Lmax	Evening Leq
Concrete Saw	75.6	68.6	N/A	N/A	N/A	N/A
Excavator	66.7	62.8	N/A	N/A	N/A	N/A
Gradall	69.4	65.4	N/A	N/A	N/A	N/A

Pumps		67	64	N/A	N/A	N/A	N/A
Backhoe		63.6	59.6	N/A	N/A	N/A	N/A
	Total	75.6	72.1	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 4/7/2020
Case Description: OCSD CS X-082 - Paving

---- Receptor #1 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Nearest Residence	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Paver	No	50		77.2	30	0
Dump Truck	No	40		76.5	40	0
Roller	No	20		80	50	0

	Calculated (dBA)		Results Noise Limits (dBA)			
			Day		Evening	
Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq
Paver	81.7	78.6	N/A	N/A	N/A	N/A
Dump Truck	78.4	74.4	N/A	N/A	N/A	N/A
Roller	80	73	N/A	N/A	N/A	N/A
Total	81.7	80.8	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Typical	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Paver	No	50		77.2	250	0
Dump Truck	No	40		76.5	250	0
Roller	No	20		80	250	0

	Calculated (dBA)		Results Noise Limits (dBA)			
			Day		Evening	
Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq
Paver	63.2	60.2	N/A	N/A	N/A	N/A
Dump Truck	62.5	58.5	N/A	N/A	N/A	N/A
Roller	66	59	N/A	N/A	N/A	N/A

	Total	66	64.1	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 4/6/2020
Case Description: OCSD CS X-082 - Architectural Coating

---- Receptor #1 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Nearest Residence	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Compressor (air)	No	40		77.7	30	0

Results

	Calculated (dBA)	
Equipment	*Lmax	Leq
Compressor (air)	82.1	78.1
Total	82.1	78.1

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Typical	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Compressor (air)	No	40		77.7	250	0

Results

	Calculated (dBA)	
Equipment	*Lmax	Leq
Compressor (air)	63.7	59.7
Total	63.7	59.7

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 4/6/2020
Case Description: OCSD CS X-082 - Testing

---- Receptor #1 ----

Baselines (dBA)

Description	Land Use	Daytime	Evening	Night
Nearest Residence	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Generator	No	50		80.6	30	0

Results

Calculated (dBA)

Equipment		*Lmax	Leq
Generator		85.1	82.1
	Total	85.1	82.1

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Baselines (dBA)

Description	Land Use	Daytime	Evening	Night
Typical	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Generator	No	50		80.6	250	0

Results

Calculated (dBA)

Equipment		*Lmax	Leq
Generator		66.7	63.6
	Total	66.7	63.6

*Calculated Lmax is the Loudest value.

Report date: 4/7/2020
Case Description: OCSD CS X-083 - Pipeline Installation

---- Receptor #1 ----

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
Nearest Residence	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Concrete Saw	No	20		89.6	15	0
Excavator	No	40		80.7	30	0
Gradall	No	40		83.4	40	0
Pumps	No	50		80.9	30	0
Backhoe	No	40		77.6	40	0

Results

Equipment	Calculated (dBA) *Lmax	Leq	Day Lmax	Day Leq	Evening Lmax	Evening Leq
Concrete Saw	100	93	N/A	N/A	N/A	N/A
Excavator	85.1	81.2	N/A	N/A	N/A	N/A
Gradall	85.3	81.4	N/A	N/A	N/A	N/A
Pumps	85.4	82.4	N/A	N/A	N/A	N/A
Backhoe	79.5	75.5	N/A	N/A	N/A	N/A
Total	100	94	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
Typical	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Concrete Saw	No	20		89.6	250	0
Excavator	No	40		80.7	250	0
Gradall	No	40		83.4	250	0
Pumps	No	50		80.9	250	0
Backhoe	No	40		77.6	250	0

Results

Equipment	Calculated (dBA) *Lmax	Leq	Day Lmax	Day Leq	Evening Lmax	Evening Leq
Concrete Saw	75.6	68.6	N/A	N/A	N/A	N/A
Excavator	66.7	62.8	N/A	N/A	N/A	N/A
Gradall	69.4	65.4	N/A	N/A	N/A	N/A

Pumps		67	64	N/A	N/A	N/A	N/A
Backhoe		63.6	59.6	N/A	N/A	N/A	N/A
	Total	75.6	72.1	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 4/7/2020
Case Description: OCSD CS X-083 - Paving

---- Receptor #1 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Nearest Residence	Residential	50	45	40

			Equipment			
	Impact		Spec Lmax	Actual Lmax	Receptor Distance	Estimated Shielding
Description	Device	Usage(%)	(dBA)	(dBA)	(feet)	(dBA)
Paver	No	50		77.2	15	0
Dump Truck	No	40		76.5	30	0
Roller	No	20		80	40	0

		Results					
		Calculated (dBA)		Noise Limits (dBA)			
				Day		Evening	
Equipment		*Lmax	Leq	Lmax	Leq	Lmax	Leq
Paver		87.7	84.7	N/A	N/A	N/A	N/A
Dump Truck		80.9	76.9	N/A	N/A	N/A	N/A
Roller		81.9	74.9	N/A	N/A	N/A	N/A
	Total	87.7	85.7	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Typical	Residential	50	45	40

			Equipment			
	Impact		Spec Lmax	Actual Lmax	Receptor Distance	Estimated Shielding
Description	Device	Usage(%)	(dBA)	(dBA)	(feet)	(dBA)
Paver	No	50		77.2	250	0
Dump Truck	No	40		76.5	250	0
Roller	No	20		80	250	0

		Results					
		Calculated (dBA)		Noise Limits (dBA)			
				Day		Evening	
Equipment		*Lmax	Leq	Lmax	Leq	Lmax	Leq
Paver		63.2	60.2	N/A	N/A	N/A	N/A
Dump Truck		62.5	58.5	N/A	N/A	N/A	N/A
Roller		66	59	N/A	N/A	N/A	N/A

	Total	66	64.1	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 3/29/2020
Case Description: OCSD CS X-083 - Architectural Coating

---- Receptor #1 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Nearest Residence	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Compressor (air)	No	40		77.7	15	0

Results

	Calculated (dBA)	
Equipment	*Lmax	Leq
Compressor (air)	88.1	84.1
Total	88.1	84.1

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Typical	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Compressor (air)	No	40		77.7	250	0

Results

	Calculated (dBA)	
Equipment	*Lmax	Leq
Compressor (air)	63.7	59.7
Total	63.7	59.7

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 3/29/2020
Case Description: OCSD CS X-083 - Testing

---- Receptor #1 ----

Baselines (dBA)

Description	Land Use	Daytime	Evening	Night
Nearest Residence	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Generator	No	50		80.6	15	0

Results

Calculated (dBA)

Equipment		*Lmax	Leq
Generator		91.1	88.1
	Total	91.1	88.1

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Baselines (dBA)

Description	Land Use	Daytime	Evening	Night
Typical	Residential	50	45	40

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Generator	No	50		80.6	250	0

Results

Calculated (dBA)

Equipment		*Lmax	Leq
Generator		66.7	63.6
	Total	66.7	63.6

*Calculated Lmax is the Loudest value.