



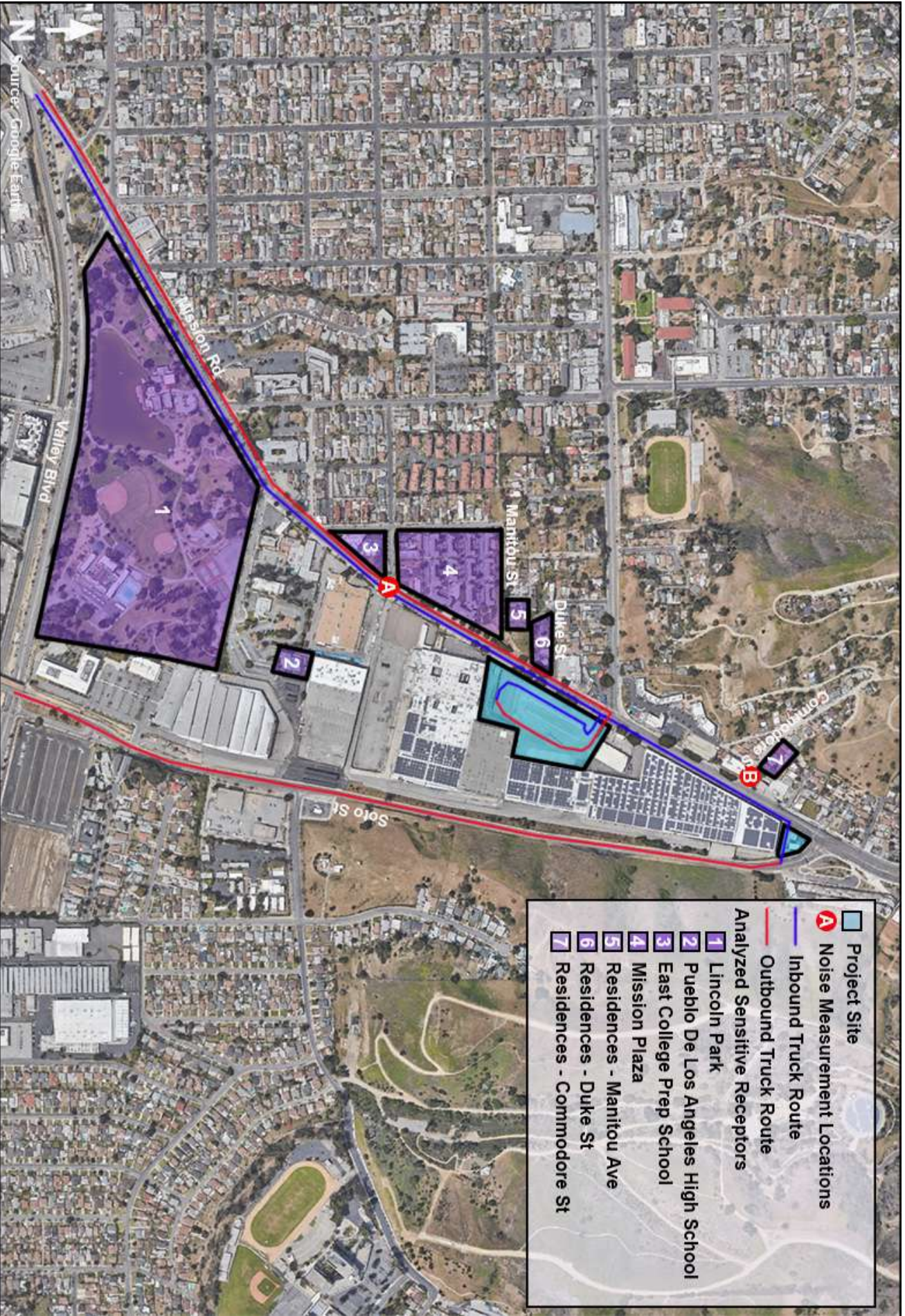
DOUGLASKIM+ASSOCIATES,LLC

## AMBIENT NOISE MEASUREMENTS





DOUGLASKIM+ASSOCIATES, LLC














-  Project Site
-  Noise Measurement Locations
-  Inbound Truck Route
-  Outbound Truck Route
-  Analyzed Sensitive Receptors
-  1 Lincoln Park
-  2 Pueblo De Los Angeles High School
-  3 East College Prep School
-  4 Mission Plaza
-  5 Residences - Manitou Ave
-  6 Residences - Duke St
-  7 Residences - Commodore St

Figure 1  
Noise Measurement Locations



# Session Report

9/13/2022

## Information Panel

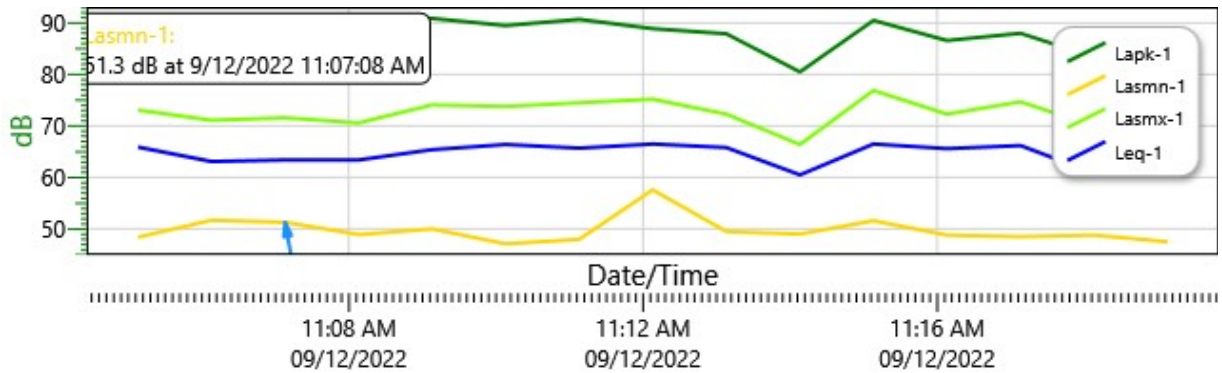
Name	East College Prep - Lincoln Park Motel
Comments	
Start Time	9/12/2022 11:04:08 AM
Stop Time	9/12/2022 11:19:10 AM
Run Time	00:15:02
Serial Number	SE40213991
Device Name	SE40213991
Model Type	Sound Examiner
Device Firmware Rev	R.11C
Company Name	
Description	
Location	
User Name	

## Summary Data Panel

Description	Meter	Value	Description	Meter	Value
Leq	1	65 dB			
Exchange Rate	1	3 dB	Weighting	1	A
Response	1	SLOW	Bandwidth	1	OFF

## Logged Data Chart

East College Prep - Lincoln Park Motel: Logged Data Chart



## Logged Data Table

Date/Time	Lapk-1	Lasmn-1	Lasmx-1	Leq-1
-----------	--------	---------	---------	-------

Date/Time	Lapk-1	Lasmn-1	Lasmx-1	Leq-1
9/12/2022 11:05:08 AM	90.5	48.4	73.1	65.9
11:06:08 AM	84.5	51.7	71.1	63.1
11:07:08 AM	85.8	51.3	71.6	63.4
11:08:08 AM	90.1	48.9	70.6	63.4
11:09:08 AM	90.9	50	74.1	65.4
11:10:08 AM	89.5	47.1	73.8	66.4
11:11:08 AM	90.7	48	74.5	65.7
11:12:08 AM	88.9	57.6	75.2	66.5
11:13:08 AM	87.9	49.5	72.3	65.8
11:14:08 AM	80.5	49	66.4	60.5
11:15:08 AM	90.5	51.6	76.9	66.5
11:16:08 AM	86.6	48.8	72.3	65.6
11:17:08 AM	88	48.5	74.7	66.2
11:18:08 AM	83.4	48.8	70	60.8
11:19:08 AM	85.7	47.5	71	65.1

# Session Report

9/13/2022

## Information Panel

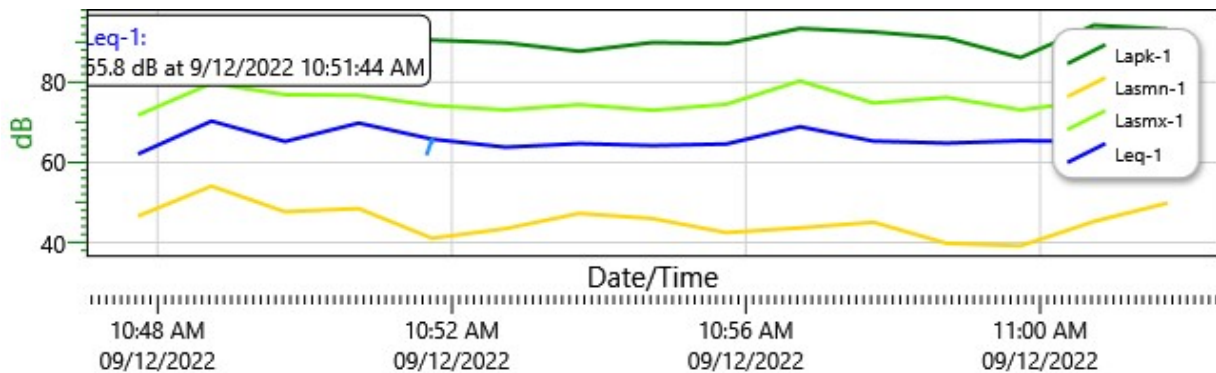
Name	3861 Mission Road
Comments	
Start Time	9/12/2022 10:46:44 AM
Stop Time	9/12/2022 11:01:58 AM
Run Time	00:15:14
Serial Number	SE40213991
Device Name	SE40213991
Model Type	Sound Examiner
Device Firmware Rev	R.11C
Company Name	
Description	
Location	
User Name	

## Summary Data Panel

Description	Meter	Value	Description	Meter	Value
Leq	1	66.5 dB			
Exchange Rate	1	3 dB	Weighting	1	A
Response	1	SLOW	Bandwidth	1	OFF

## Logged Data Chart

3861 Mission Road: Logged Data Chart



## Logged Data Table

Date/Time	Lapk-1	Lasmn-1	Lasmx-1	Leq-1
-----------	--------	---------	---------	-------

Date/Time	Lapk-1	Lasmn-1	Lasmx-1	Leq-1
9/12/2022 10:47:44 AM	86.8	46.6	71.8	62.1
10:48:44 AM	93.4	54.1	79.7	70.3
10:49:44 AM	91.6	47.7	76.9	65.2
10:50:44 AM	95.4	48.5	76.7	69.8
10:51:44 AM	90.5	41.1	74.2	65.8
10:52:44 AM	89.8	43.5	73.1	63.8
10:53:44 AM	87.7	47.3	74.4	64.7
10:54:44 AM	89.9	46	73	64.2
10:55:44 AM	89.6	42.5	74.5	64.6
10:56:44 AM	93.4	43.7	80.3	68.9
10:57:44 AM	92.5	45.1	74.8	65.3
10:58:44 AM	91	39.8	76.2	64.8
10:59:44 AM	86.1	39.2	73.1	65.4
11:00:44 AM	94.2	45.3	75.4	65.2
11:01:44 AM	93.2	49.9	76.2	68.6



DOUGLASKIM+ASSOCIATES,LLC

## CONSTRUCTION NOISE CALCULATIONS

## Noise emissions of industry sources

Source name	Size m/m <sup>2</sup>	Reference	Day dB(A)	Level		Corrections		
				Evening dB(A)	Night dB(A)	Cwall dB	CI dB	CT dB
West Staging Area	7332 m <sup>2</sup>	Lw/unit	109.7	-	-	-	-	-
North Staging Area	2075 m <sup>2</sup>	Lw/unit	109.7	-	-	-	-	-



## Noise emissions of road traffic

Station km	ADT Veh/24	Vehicles type	Traffic values				Speed km/h	Contr device	Cons Speed km/h	Affec veh. %	Road surface	Gradien Min / Max %
			Vehicle name	day Veh/h	evening Veh/h	night Veh/h						
West NB												
Traffic direction: In entry direction												
0+01	960	Total	-	80	-	-	-	none	-	-	Average (of DGAC at	0.7 / 2.
		Automobiles	-	-	-	-	-					
		Medium trucks	-	-	-	-	-					
		Heavy trucks	-	80	-	-	48					
		Buses	-	-	-	-	-					
		Motorcycles	-	-	-	-	-					
		Auxiliary vehicle	-	-	-	-	-					
1+10	205	Total	-	17	-	-	-	none	-	-	Average (of DGAC at	3.0
		Automobiles	-	-	-	-	-					
		Medium trucks	-	-	-	-	-					
		Heavy trucks	-	17	-	-	48					
		Buses	-	-	-	-	-					
		Motorcycles	-	-	-	-	-					
		Auxiliary vehicle	-	-	-	-	-					
1+36	960	Total	-	80	-	-	-	none	-	-	Average (of DGAC at	1.5 / 3.
		Automobiles	-	-	-	-	-					
		Medium trucks	-	-	-	-	-					
		Heavy trucks	-	80	-	-	56					
		Buses	-	-	-	-	-					
		Motorcycles	-	-	-	-	-					
		Auxiliary vehicle	-	-	-	-	-					
Outbound West Staging Area												
Traffic direction: In entry direction												
0+01	205	Total	-	17	-	-	-	none	-	-	Average (of DGAC at	3.9 / -
		Automobiles	-	-	-	-	-					
		Medium trucks	-	-	-	-	-					
		Heavy trucks	-	17	-	-	56					
		Buses	-	-	-	-	-					
		Motorcycles	-	-	-	-	-					
		Auxiliary vehicle	-	-	-	-	-					
West NB3												
Traffic direction: In entry direction												
0+01	960	Total	-	80	-	-	-	none	-	-	Average (of DGAC at	1.8 / 1
		Automobiles	-	-	-	-	-					
		Medium trucks	-	-	-	-	-					
		Heavy trucks	-	80	-	-	10					
		Buses	-	-	-	-	-					
		Motorcycles	-	-	-	-	-					
		Auxiliary vehicle	-	-	-	-	-					
0+07	205	Total	-	17	-	-	-	none	-	-	Average (of DGAC at	2.9 / 2
		Automobiles	-	-	-	-	-					
		Medium trucks	-	-	-	-	-					
		Heavy trucks	-	17	-	-	10					
		Buses	-	-	-	-	-					
		Motorcycles	-	-	-	-	-					
		Auxiliary vehicle	-	-	-	-	-					
Incoming North Staging Area												
Traffic direction: In entry direction												
0+01	137	Total	-	11	-	-	-	none	-	-	Average (of DGAC at	0.3
		Automobiles	-	-	-	-	-					
		Medium trucks	-	-	-	-	-					
		Heavy trucks	-	11	-	-	56					
		Buses	-	-	-	-	-					
		Motorcycles	-	-	-	-	-					
		Auxiliary vehicle	-	-	-	-	-					

## Noise emissions of road traffic

Station km	ADT Veh/24h	Vehicles type	Traffic values				Speed km/h	Contr device	Cons Speed km/h	Affec veh. %	Road surface	Gradien Min / Max %
			Vehicle name	day Veh/h	evening Veh/h	night Veh/h						
Outgoing North Staging Area												
Traffic direction: In entry direction												
0+01	1440	Total	-	120	-	-	-	none	-	-	Average (of DGAC a	3.1
		Automobiles	-	-	-	-	-					
		Medium trucks	-	-	-	-	-					
		Heavy trucks	-	120	-	-	48					
		Buses	-	-	-	-	-					
		Motorcycles	-	-	-	-	-					
		Auxiliary vehicle	-	-	-	-	-					
0+07	137	Total	-	11	-	-	-	none	-	-	Average (of DGAC a	2.8 / 0
		Automobiles	-	-	-	-	-					
		Medium trucks	-	-	-	-	-					
		Heavy trucks	-	11	-	-	56					
		Buses	-	-	-	-	-					
		Motorcycles	-	-	-	-	-					
		Auxiliary vehicle	-	-	-	-	-					
West NB6												
Traffic direction: In entry direction												
0+01	1440	Total	-	120	-	-	-	none	-	-	Average (of DGAC a	-4.7
		Automobiles	-	-	-	-	-					
		Medium trucks	-	-	-	-	-					
		Heavy trucks	-	120	-	-	10					
		Buses	-	-	-	-	-					
		Motorcycles	-	-	-	-	-					
		Auxiliary vehicle	-	-	-	-	-					
0+01	137	Total	-	11	-	-	-	none	-	-	Average (of DGAC a	2.5 / 2
		Automobiles	-	-	-	-	-					
		Medium trucks	-	-	-	-	-					
		Heavy trucks	-	11	-	-	10					
		Buses	-	-	-	-	-					
		Motorcycles	-	-	-	-	-					
		Auxiliary vehicle	-	-	-	-	-					

## Receiver list

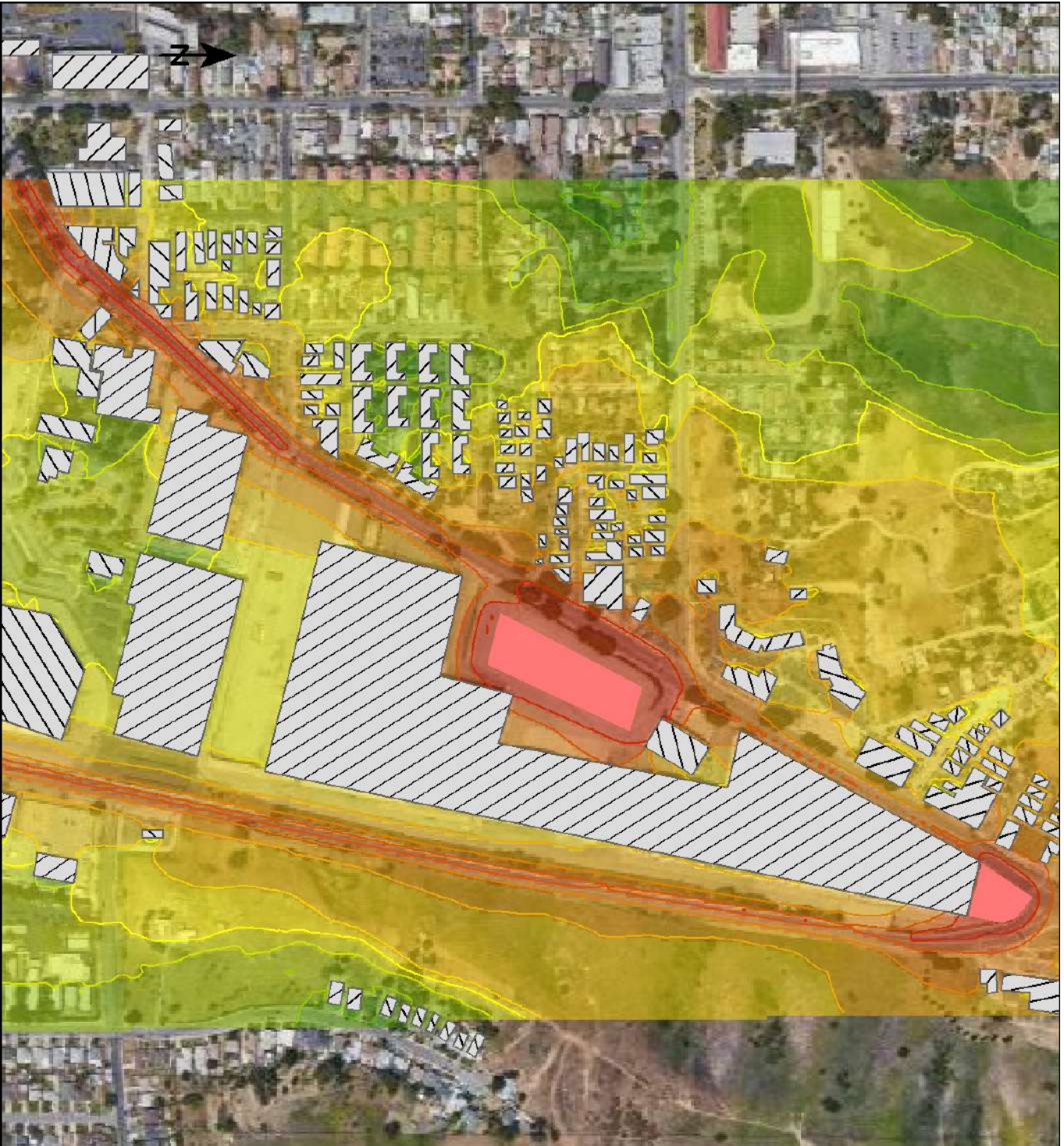
No.	Receiver name	Coordinates		Building side	Floor	Height abv. grd. m	Limit Day dB(A)	Level Day dB(A)	Conflict Day dB
		X	Y						
1	East College Prep School	11389299.8	3770556.54	South east	GF	115.50	-	63.4	-
2	Lincoln Park	11389176.1	3770374.31	-	GF	109.65	-	62.5	-
3	Mission Plaza Residences	11389424.3	3770753.38	South east	GF	127.14	-	57.8	-
4	Pueblo De Los Angeles High School	11389482.6	3770453.77	West	GF	118.60	-	41.4	-
5	Residences - Commodore Street	11389753.3	3771307.79	South west	GF	129.69	-	57.8	-
6	Residences - Duke Street	11389502.94	3770882.86	South east	GF	127.95	-	65.1	-
7	Residences - Manitou Avenue	11389414.7	3770827.90	East	GF	143.78	-	56.9	-

## Contribution levels of the receivers

Source name	Traffic lane	Level Day dB(A)
East College Prep School	GF	63.4
Incoming North Staging Area	-	15.1
North Staging Area	-	20.7
Outbound West Staging Area	-	56.5
Outgoing North Staging Area	-	24.5
West NB	-	62.3
West NB3	-	31.4
West NB6	-	11.6
West Staging Area	-	41.0
Lincoln Park	GF	62.5
Incoming North Staging Area	-	10.9
North Staging Area	-	28.2
Outbound West Staging Area	-	54.4
Outgoing North Staging Area	-	22.1
West NB	-	61.8
West NB3	-	29.9
West NB6	-	11.3
West Staging Area	-	38.0
Mission Plaza Residences	GF	57.8
Incoming North Staging Area	-	19.1
North Staging Area	-	29.3
Outbound West Staging Area	-	54.4
Outgoing North Staging Area	-	31.1
West NB	-	53.4
West NB3	-	41.6
West NB6	-	16.4
West Staging Area	-	49.8
Pueblo De Los Angeles High School	GF	41.4
Incoming North Staging Area	-	5.2
North Staging Area	-	19.3
Outbound West Staging Area	-	34.7
Outgoing North Staging Area	-	22.0
West NB	-	39.9
West NB3	-	21.5
West NB6	-	2.3
West Staging Area	-	29.2
Residences - Commodore Street	GF	57.8
Incoming North Staging Area	-	49.6
North Staging Area	-	55.5
Outbound West Staging Area	-	19.9
Outgoing North Staging Area	-	45.1
West NB	-	28.4
West NB3	-	29.5
West NB6	-	51.0
West Staging Area	-	37.0
Residences - Duke Street	GF	65.1
Incoming North Staging Area	-	30.9
North Staging Area	-	27.0
Outbound West Staging Area	-	54.4
Outgoing North Staging Area	-	36.8
West NB	-	62.3
West NB3	-	56.5
West NB6	-	18.4
West Staging Area	-	58.9
Residences - Manitou Avenue	GF	56.9
Incoming North Staging Area	-	31.3
North Staging Area	-	39.1
Outbound West Staging Area	-	46.7
Outgoing North Staging Area	-	38.4
West NB	-	51.4

## Contribution levels of the receivers

Source name	Traffic lane	Level Day dB(A)
West NB3	-	50.2
West NB6	-	25.1
West Staging Area	-	52.7



3880 Mission Road

Signs and symbols

-  Building
-  Staging Areas

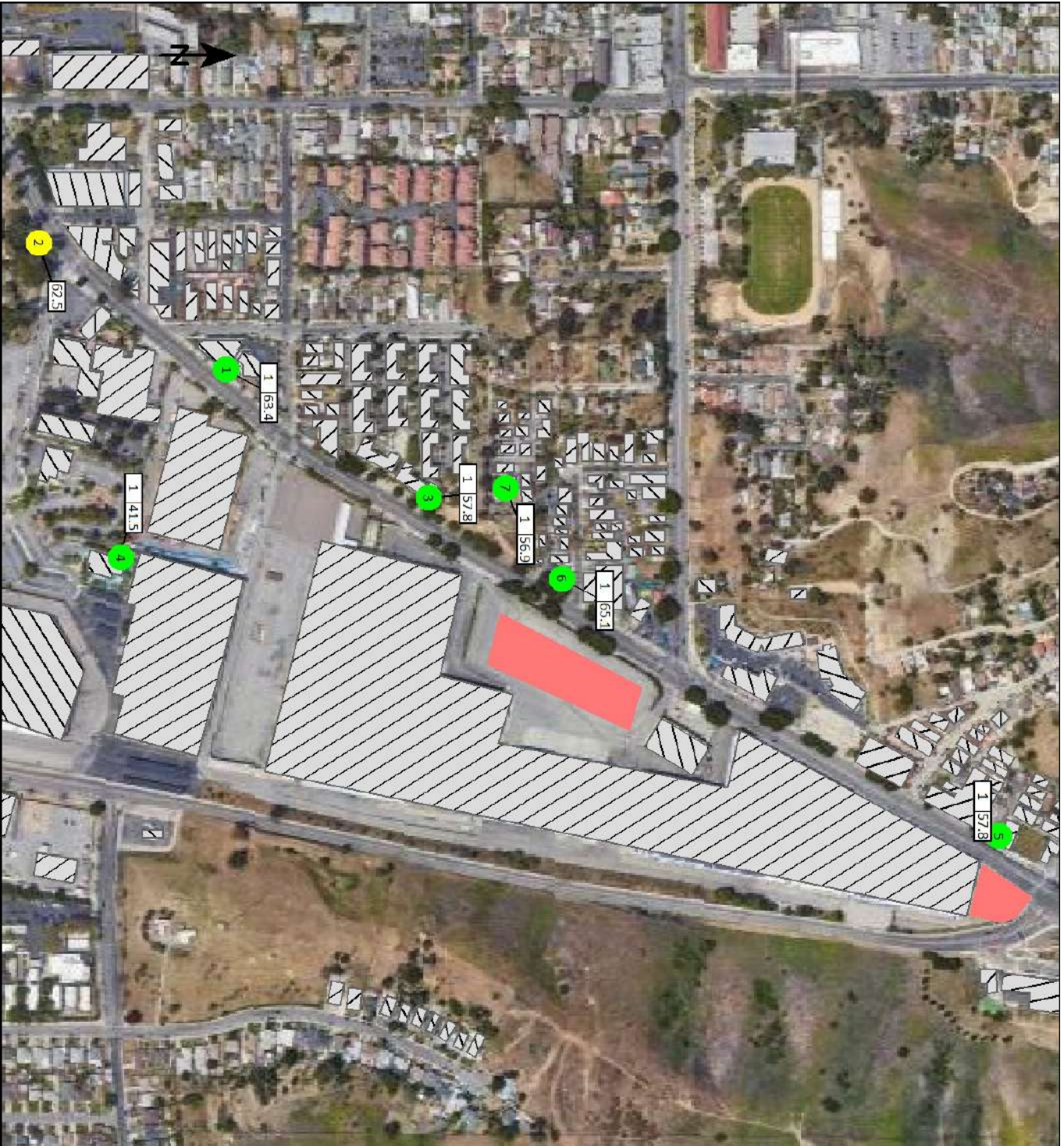
Levels in dB(A)



1 : 409



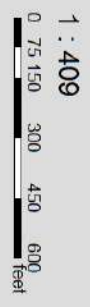




3880 Mission Road

**Signs and symbols**

-  Building
-  Analyzed Sensitive Receptor (Outdoor)
-  Analyzed Sensitive Area
-  Staging Areas



## Construction Noise Impacts



DOUGLASKIM+ASS

<b>Reference</b>	15.24	meter
<b>Sound Pressure Level (Lp)</b>	75.0	dBA
<b>Sound Power Level (Lw)</b>	109.7	dB

Receptor	Existing Leq	Noise	New Leq	Difference Leq	Significant?
Lincoln Park	65.0	62.5	66.9	1.9	<b>No</b>
Pueblo De Los Angeles High School	65.0	41.4	65.0	0.0	<b>No</b>
East College Prep School	65.0	63.4	67.3	2.3	<b>No</b>
Mission Plaza Residences	65.0	57.8	65.8	0.8	<b>No</b>
Residences - Manitou Avenue	65.0	56.9	65.6	0.6	<b>No</b>



DOUGLASKIM+ASSOCIATES,LLC

## TRAFFIC NOISE CALCULATIONS



**TRAFFIC VOLUME ADJUSTMENTS**

North/South Lincoln Park Avenue  
 East/West Mission Road  
 Year 2019  
 Hour 7:00-8:00 A.M.  
 Source [https://navigatela.lacity.org/dot/traffic\\_data/manual\\_counts/LINCOLN.MISSION.190319.MAN.pdf](https://navigatela.lacity.org/dot/traffic_data/manual_counts/LINCOLN.MISSION.190319.MAN.pdf)



	NB Approach	SB Approach	EB Approach	WB Approach		
LT						
TH						
RT						
Total			1552	1543		1.07%

2019	-	-	617	1,039	-	
2020	-	-	623	1,049	-	
2021	-	-	629	1,060	-	
2022	-	-	636	1,070	-	
<b>2023</b>	-	-	<b>642</b>	<b>1,081</b>	<b>1,723</b>	

	NB Approach	SB Approach	EB Approach	WB Approach		
Auto	-	-	535	901	6,048,810	82.5%
MDT	-	-	83	140	940,092	12.8%
HDT	-	-	2	4	25,348	0.3%
Buses	-	-	1	1	9,386	0.1%
MCY	-	-	15	25	167,287	2.3%
Aux	-	-	13	21	142,856	1.9%
Total	-	-	648	1,092	7,333,779	100.0%





# 24 Hours Traffic Volume

City of Los Angeles  
Department of Transportation

Counter A. Sanchez  
Date 06/07/18  
Start Time 12 AM

Location **SOTO ST AT MULTNOMAH ST**  
Direction **N/S STREET**  
Serial Number **17876**

Day of Week **THUR**  
DOT District **CENTRAL**  
Weather **CLEAR**

Prepared **06/08/18**  
By **A. Sanchez**

Time	NORTHBOUND or WESTBOUND					SOUTHBOUND or EASTBOUND					TOTAL
	1ST QTR	2ND QTR	3RD QTR	4TH QTR	HOUR TOTAL	1ST QTR	2ND QTR	3RD QTR	4TH QTR	HOUR TOTAL	
12 AM	28	40	28	27	123	17	24	20	15	76	199
1 AM	21	10	25	20	76	11	9	10	7	37	113
2 AM	9	10	14	11	44	9	6	8	8	31	75
3 AM	12	19	11	8	50	8	10	8	12	38	88
4 AM	12	15	24	24	75	18	19	30	34	101	176
5 AM	21	25	37	77	160	39	42	59	78	218	378
6 AM	68	82	100	131	381	75	100	131	153	459	840
7 AM	144	192	261	239	836	184	201	225	296	906	1742
8 AM	221	196	184	166	767	261	237	200	136	834	1601
9 AM	123	122	114	116	475	164	144	119	107	534	1009
10 AM	103	100	117	105	425	90	114	87	83	374	799
11 AM	124	125	138	139	526	91	72	83	101	347	873
12 NN	144	150	164	198	656	89	81	120	125	415	1071
1 PM	182	175	161	149	667	120	107	126	113	466	1133
2 PM	140	164	163	184	651	103	91	104	98	396	1047
3 PM	226	215	252	258	951	103	104	105	97	409	1360
4 PM	269	321	307	342	1239	106	112	161	131	510	1749
5 PM	329	380	387	377	1473	141	130	130	150	551	2024
6 PM	349	329	328	255	1261	138	114	126	121	499	1760
7 PM	206	183	134	133	656	97	99	90	59	345	1001
8 PM	125	116	107	115	463	74	62	70	42	248	711
9 PM	105	101	103	98	407	57	66	64	70	257	664
10 PM	87	80	64	64	295	40	36	35	34	145	440
11 PM	57	52	56	43	208	34	46	55	25	160	368

FIRST 12-HOURS PEAK QUARTER COUNT

**261** 7 AM 3RD

**296** 7 AM 4TH

LAST 12-HOURS PEAK QUARTER COUNT

**387** 5 PM 3RD

**161** 4 PM 3RD

24 HOUR VEHICLES TOTAL

**12,865**

**8,356**

**21,221**

TOTAL VEHICLES STANDARD DEVIATION (STD)

[+,-] 393.42

[+,-] 228.21

581.12

## PEAK HOURS VOLUME

	NORTH or WEST BOUND		SOUTH or EAST BOUND		BOTH DIRECTIONS	
	PEAK HOUR	VEHICLE VOLUME	PEAK HOUR	VEHICLE VOLUME	PEAK HOUR	VEHICLE VOLUME
First 12H Peak	7 AM	<b>836</b>	7 AM	<b>906</b>	7 AM	<b>1,742</b>
Last 12H Peak	5 PM	<b>1,473</b>	5 PM	<b>551</b>	5 PM	<b>2,024</b>
First 12H Peak STD		[+,-] 270.73		[+,-] 293.87		[+,-] 560.50
Last 12H Peak STD		[+,-] 387.09		[+,-] 130.80		[+,-] 508.61



**TRAFFIC VOLUME ADJUSTMENTS**

North/South Soto Street  
 East/West Multnomah Street  
 Year 2018  
 Hour 7:00-8:00 A.M.  
 Source [https://navigatela.lacity.org/dot/traffic\\_data/automatic\\_counts/SOTO.MULTNOMAH.180607-AUTO.pdf](https://navigatela.lacity.org/dot/traffic_data/automatic_counts/SOTO.MULTNOMAH.180607-AUTO.pdf)



	NB Approach	SB Approach	EB Approach	WB Approach	
LT					
TH					
RT					
Total	836	906			1.07%

2018	836	906		1,742
2019	844	915		1,759
2020	853	924		1,777
2021	861	933		1,795
2022	870	943		1,813
<b>2023</b>	<b>879</b>	<b>952</b>		<b>1,831</b>

	NB Approach	SB Approach	EB Approach	WB Approach		
Auto	725	785	-	-	6,048,810	82.5%
MDT	113	122	-	-	940,092	12.8%
HDT	3	3	-	-	25,348	0.3%
Buses	1	1	-	-	9,386	0.1%
MCY	20	22	-	-	167,287	2.3%
Aux	17	19	-	-	142,856	1.9%
Total	879	952	-	-	7,333,779	100.0%



DOUGLASKIM+ASSOCIATES,LLC

## CUMULATIVE CONSTRUCTION NOISE IMPACTS

## Noise emissions of industry sources

Source name	Size m/m <sup>2</sup>	Reference	Level			Corrections		
			Day dB(A)	Evening dB(A)	Night dB(A)	Cwall dB	CI dB	CT dB
West Staging Area	7332 m <sup>2</sup>	Lw/unit	109.7	-	-	-	-	-
North Staging Area	2075 m <sup>2</sup>	Lw/unit	109.7	-	-	-	-	-
Related Project - 2730 Onyx Drive	4048 m <sup>2</sup>	Lw/unit	109.7	-	-	-	-	-

## Noise emissions of road traffic

Station km	ADT Veh/24	Vehicles type	Traffic values				Speed km/h	Contr device	Cons Speed km/h	Affec veh. %	Road surface	Gradien Min / Max %
			Vehicle name	day Veh/h	evening Veh/h	night Veh/h						
West NB												
Traffic direction: In entry direction												
0+01	960	Total	-	80	-	-	-	none	-	-	Average (of DGAC at	0.7 / 2.
		Automobiles	-	-	-	-	-					
		Medium trucks	-	-	-	-	-					
		Heavy trucks	-	80	-	-	48					
		Buses	-	-	-	-	-					
		Motorcycles	-	-	-	-	-					
		Auxiliary vehicle	-	-	-	-	-					
1+10	205	Total	-	17	-	-	-	none	-	-	Average (of DGAC at	3.0
		Automobiles	-	-	-	-	-					
		Medium trucks	-	-	-	-	-					
		Heavy trucks	-	17	-	-	48					
		Buses	-	-	-	-	-					
		Motorcycles	-	-	-	-	-					
		Auxiliary vehicle	-	-	-	-	-					
1+36	960	Total	-	80	-	-	-	none	-	-	Average (of DGAC at	1.5 / 3.
		Automobiles	-	-	-	-	-					
		Medium trucks	-	-	-	-	-					
		Heavy trucks	-	80	-	-	56					
		Buses	-	-	-	-	-					
		Motorcycles	-	-	-	-	-					
		Auxiliary vehicle	-	-	-	-	-					
Outbound West Staging Area												
Traffic direction: In entry direction												
0+01	205	Total	-	17	-	-	-	none	-	-	Average (of DGAC at	3.9 / -
		Automobiles	-	-	-	-	-					
		Medium trucks	-	-	-	-	-					
		Heavy trucks	-	17	-	-	56					
		Buses	-	-	-	-	-					
		Motorcycles	-	-	-	-	-					
		Auxiliary vehicle	-	-	-	-	-					
West NB3												
Traffic direction: In entry direction												
0+01	960	Total	-	80	-	-	-	none	-	-	Average (of DGAC at	1.8 / 1
		Automobiles	-	-	-	-	-					
		Medium trucks	-	-	-	-	-					
		Heavy trucks	-	80	-	-	10					
		Buses	-	-	-	-	-					
		Motorcycles	-	-	-	-	-					
		Auxiliary vehicle	-	-	-	-	-					
0+07	205	Total	-	17	-	-	-	none	-	-	Average (of DGAC at	2.9 / 2
		Automobiles	-	-	-	-	-					
		Medium trucks	-	-	-	-	-					
		Heavy trucks	-	17	-	-	10					
		Buses	-	-	-	-	-					
		Motorcycles	-	-	-	-	-					
		Auxiliary vehicle	-	-	-	-	-					
Incoming North Staging Area												
Traffic direction: In entry direction												
0+01	137	Total	-	11	-	-	-	none	-	-	Average (of DGAC at	0.3
		Automobiles	-	-	-	-	-					
		Medium trucks	-	-	-	-	-					
		Heavy trucks	-	11	-	-	56					
		Buses	-	-	-	-	-					
		Motorcycles	-	-	-	-	-					
		Auxiliary vehicle	-	-	-	-	-					

## Noise emissions of road traffic

Station km	ADT Veh/24h	Vehicles type	Traffic values				Speed km/h	Contr device	Cons Speed km/h	Affec veh. %	Road surface	Gradien Min / Max %
			Vehicle name	day Veh/h	evening Veh/h	night Veh/h						
Outgoing North Staging Area												
Traffic direction: In entry direction												
0+01	1440	Total	-	120	-	-	-	none	-	-	Average (of DGAC a	3.1
		Automobiles	-	-	-	-	-					
		Medium trucks	-	-	-	-	-					
		Heavy trucks	-	120	-	-	48					
		Buses	-	-	-	-	-					
		Motorcycles	-	-	-	-	-					
		Auxiliary vehicle	-	-	-	-	-					
0+07	137	Total	-	11	-	-	-	none	-	-	Average (of DGAC a	4.6 / 1
		Automobiles	-	-	-	-	-					
		Medium trucks	-	-	-	-	-					
		Heavy trucks	-	11	-	-	56					
		Buses	-	-	-	-	-					
		Motorcycles	-	-	-	-	-					
		Auxiliary vehicle	-	-	-	-	-					
West NB6												
Traffic direction: In entry direction												
0+01	1440	Total	-	120	-	-	-	none	-	-	Average (of DGAC a	4.7
		Automobiles	-	-	-	-	-					
		Medium trucks	-	-	-	-	-					
		Heavy trucks	-	120	-	-	10					
		Buses	-	-	-	-	-					
		Motorcycles	-	-	-	-	-					
		Auxiliary vehicle	-	-	-	-	-					
0+01	137	Total	-	11	-	-	-	none	-	-	Average (of DGAC a	2.5 / 2
		Automobiles	-	-	-	-	-					
		Medium trucks	-	-	-	-	-					
		Heavy trucks	-	11	-	-	10					
		Buses	-	-	-	-	-					
		Motorcycles	-	-	-	-	-					
		Auxiliary vehicle	-	-	-	-	-					

## Contribution levels of the receivers

Source name	Traffic lane	Level Day dB(A)
East College Prep School GF		63.4
Incoming North Staging Area	-	15.1
North Staging Area	-	20.7
Outbound West Staging Area	-	56.5
Outgoing North Staging Area	-	25.2
Related Project - 2730 Onyx Drive	-	18.3
West NB	-	62.3
West NB3	-	31.5
West NB6	-	11.6
West Staging Area	-	41.0
Lincoln Park GF		62.5
Incoming North Staging Area	-	10.9
North Staging Area	-	28.2
Outbound West Staging Area	-	54.4
Outgoing North Staging Area	-	25.1
Related Project - 2730 Onyx Drive	-	32.4
West NB	-	61.8
West NB3	-	29.9
West NB6	-	11.3
West Staging Area	-	38.0
Mission Plaza Residences GF		57.8
Incoming North Staging Area	-	19.1
North Staging Area	-	29.3
Outbound West Staging Area	-	54.4
Outgoing North Staging Area	-	31.3
Related Project - 2730 Onyx Drive	-	22.4
West NB	-	53.4
West NB3	-	41.6
West NB6	-	16.4
West Staging Area	-	49.8
Pueblo De Los Angeles High School GF		41.8
Incoming North Staging Area	-	5.2
North Staging Area	-	19.3
Outbound West Staging Area	-	34.7
Outgoing North Staging Area	-	25.9
Related Project - 2730 Onyx Drive	-	29.9
West NB	-	39.9
West NB3	-	21.5
West NB6	-	2.3
West Staging Area	-	29.2
Residences - Commodore Street GF		58.4
Incoming North Staging Area	-	49.6
North Staging Area	-	55.5
Outbound West Staging Area	-	19.9
Outgoing North Staging Area	-	45.2
Related Project - 2730 Onyx Drive	-	48.6
West NB	-	28.4
West NB3	-	29.5
West NB6	-	51.1
West Staging Area	-	37.0
Residences - Duke Street GF		65.1
Incoming North Staging Area	-	30.9
North Staging Area	-	27.0
Outbound West Staging Area	-	54.4
Outgoing North Staging Area	-	36.7
Related Project - 2730 Onyx Drive	-	27.8
West NB	-	62.3
West NB3	-	56.5
West NB6	-	18.4
West Staging Area	-	58.9

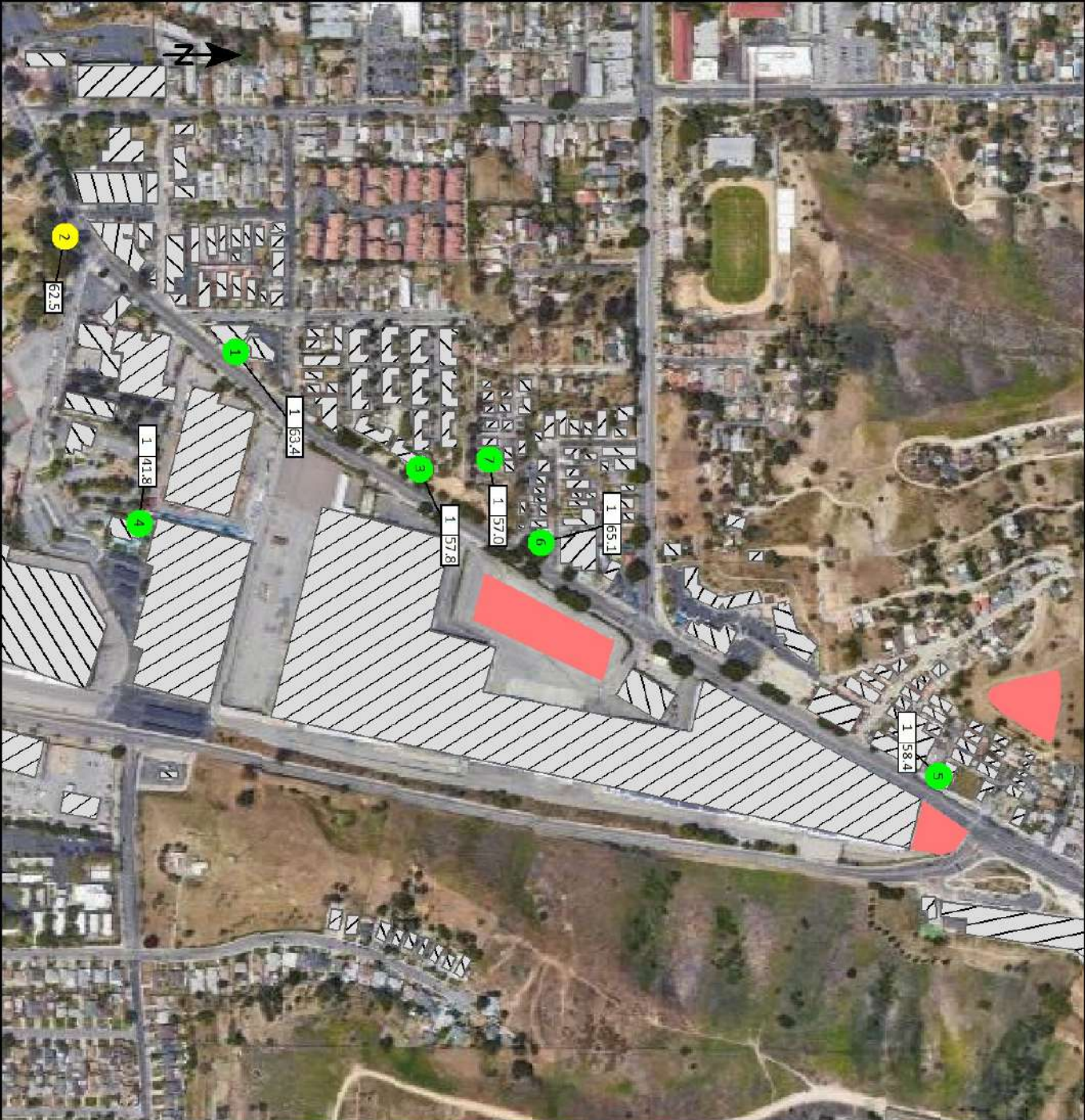


## Contribution levels of the receivers





Source name	Traffic lane	Level Day dB(A)
Residences - Manitou Avenue	GF	57.0
Incoming North Staging Area	-	31.3
North Staging Area	-	39.1
Outbound West Staging Area	-	46.7
Outgoing North Staging Area	-	38.8
Related Project - 2730 Onyx Drive	-	39.7
West NB	-	51.4
West NB3	-	50.2
West NB6	-	25.1
West Staging Area	-	52.7

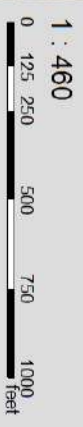
## Receiver list

No.	Receiver name	Coordinates		Building side	Floor	Height abv.grd. m	Limit Day dB(A)	Level Day dB(A)	Conflict Day dB
		X	Y						
1	East College Prep School	11389299.8	3770556.54	South east	GF	115.50	-	63.4	-
2	Lincoln Park	11389176.1	3770374.31	-	GF	109.65	-	62.5	-
3	Mission Plaza Residences	11389424.3	3770753.38	South east	GF	127.14	-	57.8	-
4	Pueblo De Los Angeles High School	11389482.6	3770453.77	West	GF	118.60	-	41.8	-
5	Residences - Commodore Street	11389753.3	3771307.79	South west	GF	129.69	-	58.4	-
6	Residences - Duke Street	11389502.94	3770882.86	South east	GF	127.95	-	65.1	-
7	Residences - Manitou Avenue	11389414.7	3770827.90	East	GF	143.78	-	57.0	-

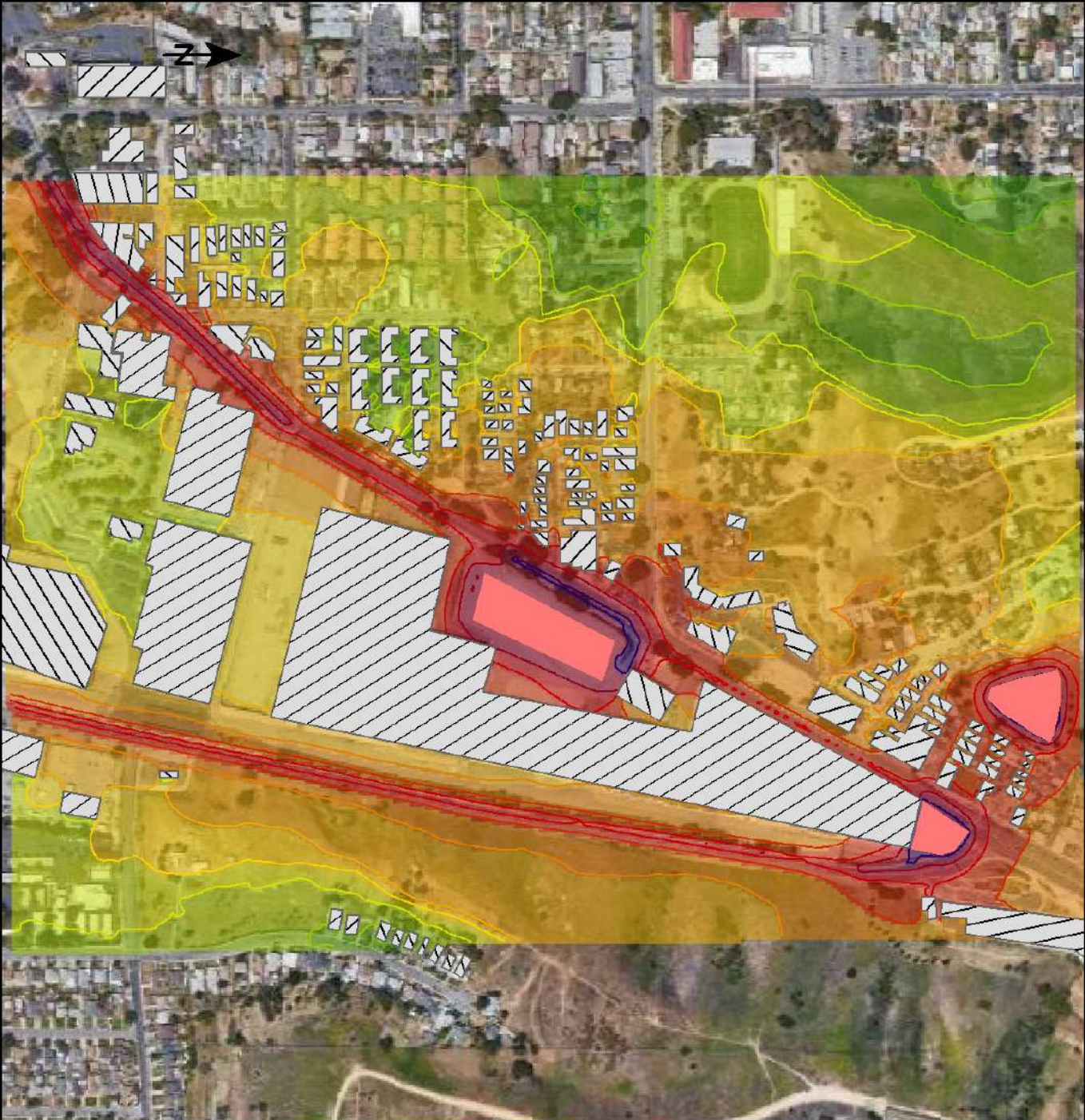


### Signs and symbols

-  Building
-  Analyzed Sensitive Receptor (Outdoor)
-  Analyzed Sensitive Receptor
-  Staging Area/Related Project



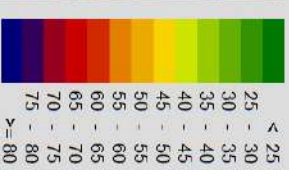




Signs and symbols

-  Building
-  Staging Area/Related Project

Levels in dB(A)



## Cumulative Construction Noise Impacts



DOUGLASKIM+ASSOCIATES,LLC

<b>Reference</b>	15.24	meter
<b>Sound Pressure Level (Lp)</b>	75.0	dBA
<b>Sound Power Level (Lw)</b>	109.7	dB

Receptor	Existing Leq	Noise	New Leq	Difference Leq	Significant?
Lincoln Park	65.0	62.5	66.9	1.9	<b>No</b>
Pueblo De Los Angeles High School	65.0	41.4	65.0	0.0	<b>No</b>
East College Prep School	65.0	63.4	67.3	2.3	<b>No</b>
Mission Plaza Residences	65.0	57.8	65.8	0.8	<b>No</b>
Residences - Manitou Avenue	65.0	56.9	65.6	0.6	<b>No</b>
Residences - Duke Street	65.0	65.1	68.1	3.1	<b>No</b>
Residences - Commodore Street	66.5	58.4	67.1	0.6	<b>No</b>

Note: Sound Power Level (Lw) assumes full sphere propagation