



DOUGLASKIM+ASSOCIATES,LLC

AMBIENT NOISE MEASUREMENTS



DOUGLASKIM+ASSOCIATES, LLC

Figure 1
Noise Measurement Locations

Session Report

7/4/2021

Information Panel

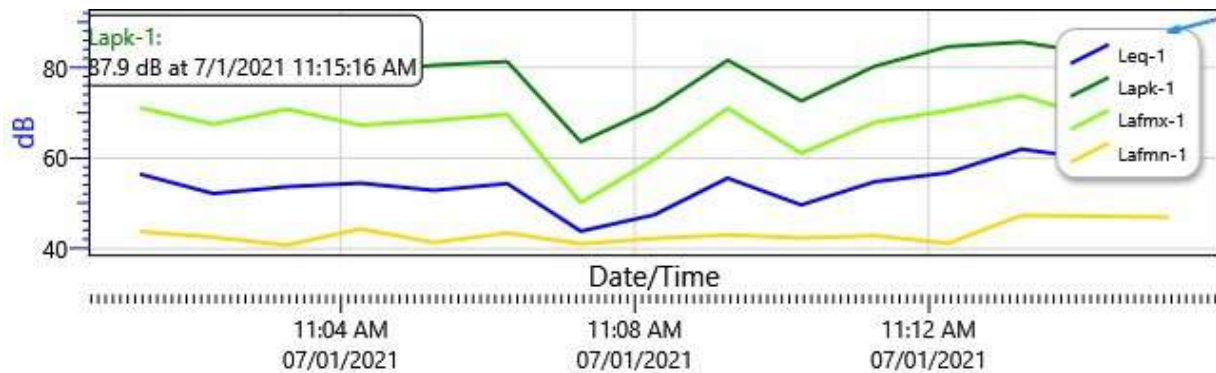
Name	Korean Baptist Church School - 964 Berendo Street
Comments	
Start Time	7/1/2021 11:00:16 AM
Stop Time	7/1/2021 11:15:25 AM
Run Time	00:15:09
Serial Number	SE40213991
Device Name	SE40213991
Model Type	Sound Examiner
Device Firmware Rev	R.11C
Company Name	
Description	
Location	
User Name	

Summary Data Panel

Description	Meter	Value	Description	Meter	Value
Leq	1	57 dB			
Exchange Rate	1	3 dB	Weighting	1	A
Response	1	FAST	Bandwidth	1	OFF

Logged Data Chart

Korean Baptist Church School - 964 Berendo Street: Logged Data Chart



Logged Data Table

Date/Time	Lapk-1	Lafmn-1	Lafmx-1	Leq-1
-----------	--------	---------	---------	-------

Date/Time	Lapk-1	Lafmn-1	Lafmx-1	Leq-1
7/1/2021 11:01:16 AM	90.4	43.8	71.1	56.5
11:02:16 AM	79.1	42.6	67.5	52.2
11:03:16 AM	82.3	40.8	70.8	53.7
11:04:16 AM	78.7	44.4	67.3	54.5
11:05:16 AM	80.5	41.4	68.3	52.9
11:06:16 AM	81.3	43.5	69.7	54.4
11:07:16 AM	63.6	41.1	50.2	43.9
11:08:16 AM	71	42.3	59.7	47.5
11:09:16 AM	81.6	43.1	71	55.6
11:10:16 AM	72.6	42.4	61.1	49.7
11:11:16 AM	80.3	42.9	67.9	54.8
11:12:16 AM	84.6	41.2	70.5	56.8
11:13:16 AM	85.6	47.4	73.8	62
11:14:16 AM	83.1	47.2	68.9	59.8
11:15:16 AM	87.9	47	77.1	63.5

Session Report

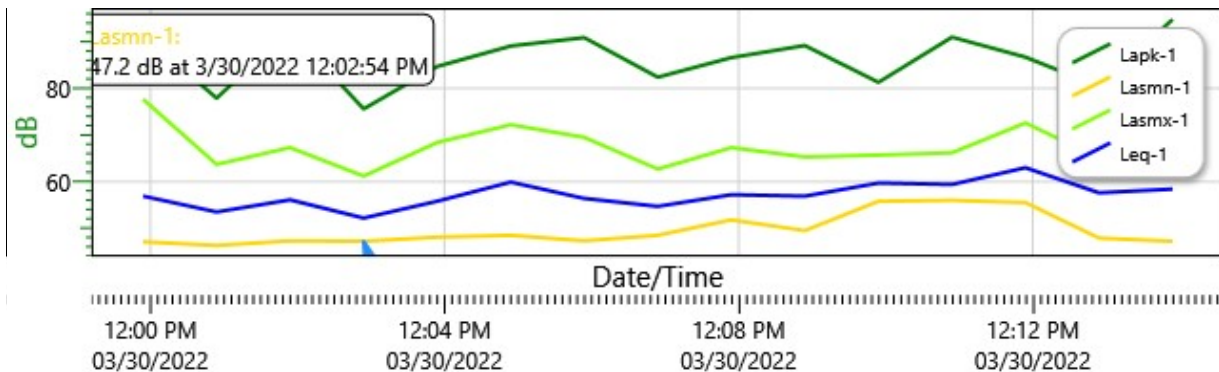
4/1/2022

Information Panel

Name	964 New Hampshire Avenue
Comments	
Start Time	3/30/2022 11:58:54 AM
Stop Time	3/30/2022 12:13:56 PM
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	

Logged Data Chart

964 New Hampshire Avenue: Logged Data Chart



Summary Data Panel

Description	Meter	Value	Description	Meter	Value
Leq	1	57.9 dB			
Exchange Rate	1	3 dB	Weighting	1	A
Response	1	SLOW	Bandwidth	1	OFF

Logged Data Table

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

Date/Time	Lapk-1	Lasmn-1	Lasmx-1	Leq-1
3/30/2022 11:59:54 AM	91.6	47.1	77.7	56.9
12:00:54 PM	77.9	46.3	63.7	53.5
12:01:54 PM	92.5	47.3	67.3	56.1
12:02:54 PM	75.6	47.2	61.2	52.2
12:03:54 PM	84.7	48.1	68.4	55.8
12:04:54 PM	89.1	48.5	72.2	59.9
12:05:54 PM	90.9	47.3	69.5	56.4
12:06:54 PM	82.4	48.5	62.7	54.7
12:07:54 PM	86.6	51.8	67.3	57.2
12:08:54 PM	89.2	49.5	65.3	56.9
12:09:54 PM	81.3	55.8	65.7	59.7
12:10:54 PM	91	56	66.2	59.4
12:11:54 PM	86.7	55.5	72.6	63
12:12:54 PM	80.4	47.9	65	57.6
12:13:54 PM	94.8	47.2	69.4	58.4

Session Report

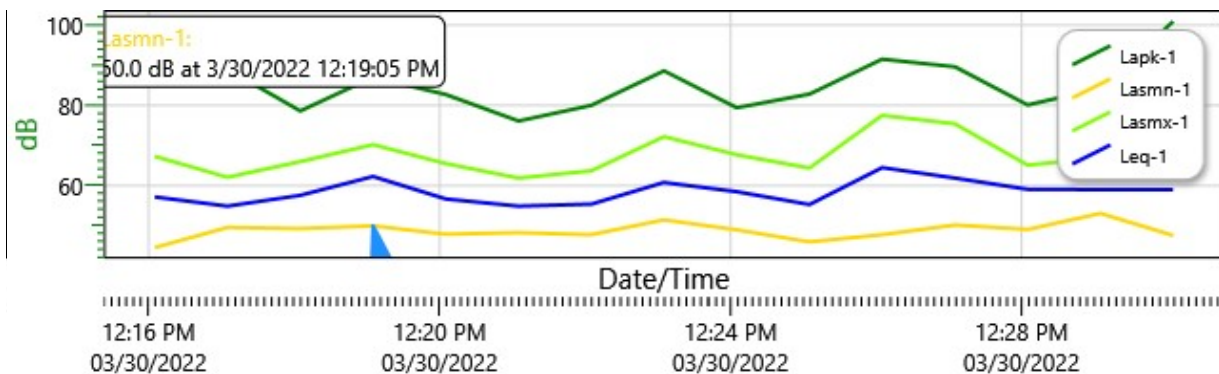
4/1/2022

Information Panel

Name	Residences 2929 San Marino St
Comments	
Start Time	3/30/2022 12:15:05 PM
Stop Time	3/30/2022 12:30:09 PM
Run Time	00:15:04
Serial Number	SE40213991
Device Name	SE40213991
Model Type	Sound Examiner
Device Firmware Rev	R.11C
Company Name	
Description	
Location	
User Name	

Logged Data Chart

Residences 2929 San Marino St: Logged Data Chart



Summary Data Panel

Description	Meter	Value	Description	Meter	Value
Leq	1	59.4 dB			
Exchange Rate	1	3 dB	Weighting	1	A
Response	1	SLOW	Bandwidth	1	OFF

Logged Data Table

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

Date/Time	Lapk-1	Lasmn-1	Lasmx-1	Leq-1
3/30/2022 12:16:05 PM	91.3	44.6	67.3	57.2
12:17:05 PM	89	49.6	62.1	54.9
12:18:05 PM	78.6	49.3	66	57.6
12:19:05 PM	87	50	70.2	62.3
12:20:05 PM	82.7	47.9	65.5	56.7
12:21:05 PM	76.1	48.3	61.9	54.9
12:22:05 PM	80	47.8	63.7	55.4
12:23:05 PM	88.6	51.5	72.2	60.8
12:24:05 PM	79.4	49	67.7	58.5
12:25:05 PM	82.8	46	64.4	55.3
12:26:05 PM	91.5	47.8	77.5	64.5
12:27:05 PM	89.6	50.2	75.4	61.9
12:28:05 PM	80.1	49.1	65.1	59.1
12:29:05 PM	84.2	53.1	67	59
12:30:05 PM	100.9	47.6	72.1	59

Session Report

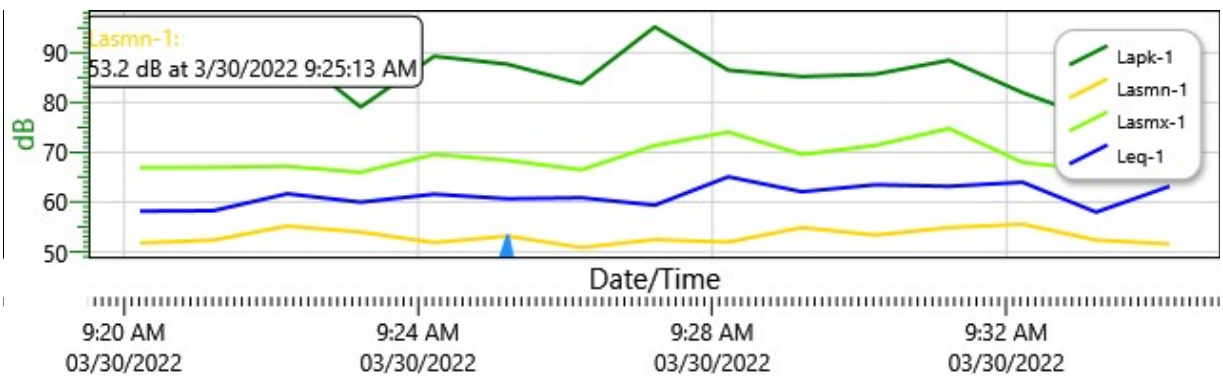
4/1/2022

Information Panel

Name	World Mission Church
Comments	
Start Time	3/30/2022 9:19:13 AM
Stop Time	3/30/2022 9:34:18 AM
Run Time	00:15:05
Serial Number	SE40213991
Device Name	SE40213991
Model Type	Sound Examiner
Device Firmware Rev	R.11C
Company Name	
Description	
Location	
User Name	

Logged Data Chart

World Mission Church: Logged Data Chart



Summary Data Panel

Description	Meter	Value	Description	Meter	Value
Leq	1	61.8 dB			
Exchange Rate	1	3 dB	Weighting	1	A
Response	1	SLOW	Bandwidth	1	OFF

Logged Data Table

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

Date/Time	Lapk-1	Lasmn-1	Lasmx-1	Leq-1
3/30/2022 9:20:13 AM	96.3	51.8	66.9	58.2
9:21:13 AM	93.6	52.4	67	58.3
9:22:13 AM	90.7	55.2	67.2	61.7
9:23:13 AM	79.1	54	66	60
9:24:13 AM	89.3	51.9	69.6	61.6
9:25:13 AM	87.7	53.2	68.4	60.7
9:26:13 AM	83.8	50.9	66.5	60.9
9:27:13 AM	95.2	52.5	71.4	59.4
9:28:13 AM	86.5	52	74.1	65.1
9:29:13 AM	85.2	54.9	69.6	62.1
9:30:13 AM	85.7	53.4	71.4	63.5
9:31:13 AM	88.5	54.9	74.8	63.2
9:32:13 AM	82	55.6	68	64
9:33:13 AM	76.6	52.4	66.4	58
9:34:13 AM	81.1	51.6	68.7	63.2

Session Report

4/1/2022

Information Panel

Name	Residences - 963 Vermont Ave (rear alley)
Comments	
Start Time	3/30/2022 11:24:12 AM
Stop Time	3/30/2022 11:24:42 AM
Run Time	00:00:30
Serial Number	SE40213991
Device Name	SE40213991
Model Type	Sound Examiner
Device Firmware Rev	R.11C
Company Name	
Description	
Location	
User Name	

Summary Data Panel

<u>Description</u>	<u>Meter</u>	<u>Value</u>	<u>Description</u>	<u>Meter</u>	<u>Value</u>
Leq	1	64.7 dB			
Exchange Rate	1	3 dB	Weighting	1	A
Response	1	SLOW	Bandwidth	1	OFF

Session Report

6/24/2022

Information Panel

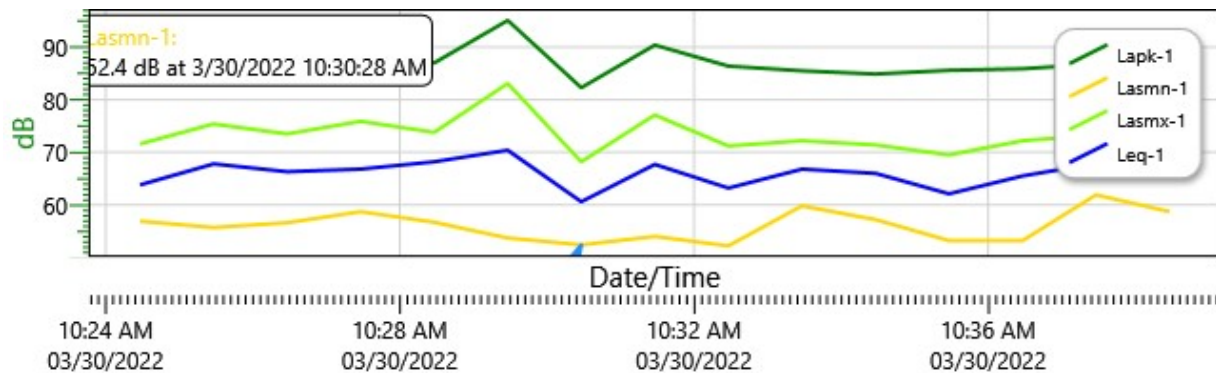
Name	Vermont Ave South of Olympic Blvd
Comments	
Start Time	3/30/2022 10:23:28 AM
Stop Time	3/30/2022 10:38:31 AM
Run Time	00:15:03
Serial Number	SE40213991
Device Name	SE40213991
Model Type	Sound Examiner
Device Firmware Rev	R.11C
Company Name	
Description	
Location	
User Name	

Summary Data Panel

Description	Meter	Value	Description	Meter	Value
Leq	1	66.7 dB			
Exchange Rate	1	3 dB	Weighting	1	A
Response	1	SLOW	Bandwidth	1	OFF

Logged Data Chart

Vermont Ave South of Olympic Blvd: 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
3/30/2022 10:24:28 AM	85.8	56.9	71.6	63.8
10:25:28 AM	88.8	55.7	75.4	67.8
10:26:28 AM	85	56.6	73.5	66.3
10:27:28 AM	90	58.7	75.9	66.8
10:28:28 AM	87	56.7	73.8	68.2
10:29:28 AM	95.1	53.7	83.1	70.4
10:30:28 AM	82.3	52.4	68.2	60.6
10:31:28 AM	90.4	54	77.1	67.7
10:32:28 AM	86.4	52.2	71.2	63.2
10:33:28 AM	85.5	59.8	72.2	66.8
10:34:28 AM	84.9	57.2	71.4	66
10:35:28 AM	85.6	53.2	69.5	62.1
10:36:28 AM	85.9	53.2	72.2	65.5
10:37:28 AM	86.8	61.9	73.3	67.9
10:38:28 AM	87.6	58.7	74.4	68



DOUGLASKIM+ASSOCIATES,LLC

CONSTRUCTION NOISE CALCULATIONS

Noise emissions of industry sources

Source name	Size m/m²	Reference	Day dB(A)	Level		Night dB(A)	Corrections		
				Evening dB(A)			Cwall dB	CI dB	CT dB
Construction Site	1886 m²	Lw/unit	109.7	-		-	-	-	-

Receiver list

No.	Receiver name	Coordinates X Y in meter	Building side	Floor	Height abv.grd. m	Limit Day dB(A)	Level Day dB(A)	Conflict Day dB
1	Berendo Street Korean School	11380584.033768870.01	East	GF	67.03	-	36.4	-
2	Rainbow Child Development Center	11380924.023768926.33	West	GF	71.47	-	42.6	-
3	Residences - Menlo Avenue	11380853.453768868.44	West	GF	69.31	-	62.7	-
4	Residences - New Hampshire Avenue	11380707.853768870.96	West	GF	71.51	-	37.3	-
5	Residences - San Marino Street	11380846.213769017.69	South	GF	70.03	-	36.9	-
6	Residences - Vermont Avenue	11380824.873768637.29	West	GF	68.34	-	39.8	-

Contribution levels of the receivers

Source name	Traffic lane	Level Day dB(A)
Berendo Street Korean School GF		36.4
Construction Site	-	36.4
Rainbow Child Development Center GF		42.6
Construction Site	-	42.6
Residences - Menlo Avenue GF		62.7
Construction Site	-	62.7
Residences - New Hampshire Avenue GF		37.3
Construction Site	-	37.3
Residences - San Marino Street GF		36.9
Construction Site	-	36.9
Residences - Vermont Avenue GF		39.8
Construction Site	-	39.8

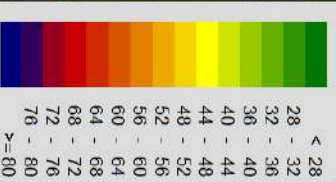
966 South Vermont Avenue



Signs and symbols

-  Building
-  Construction Site

Levels in dB(A)

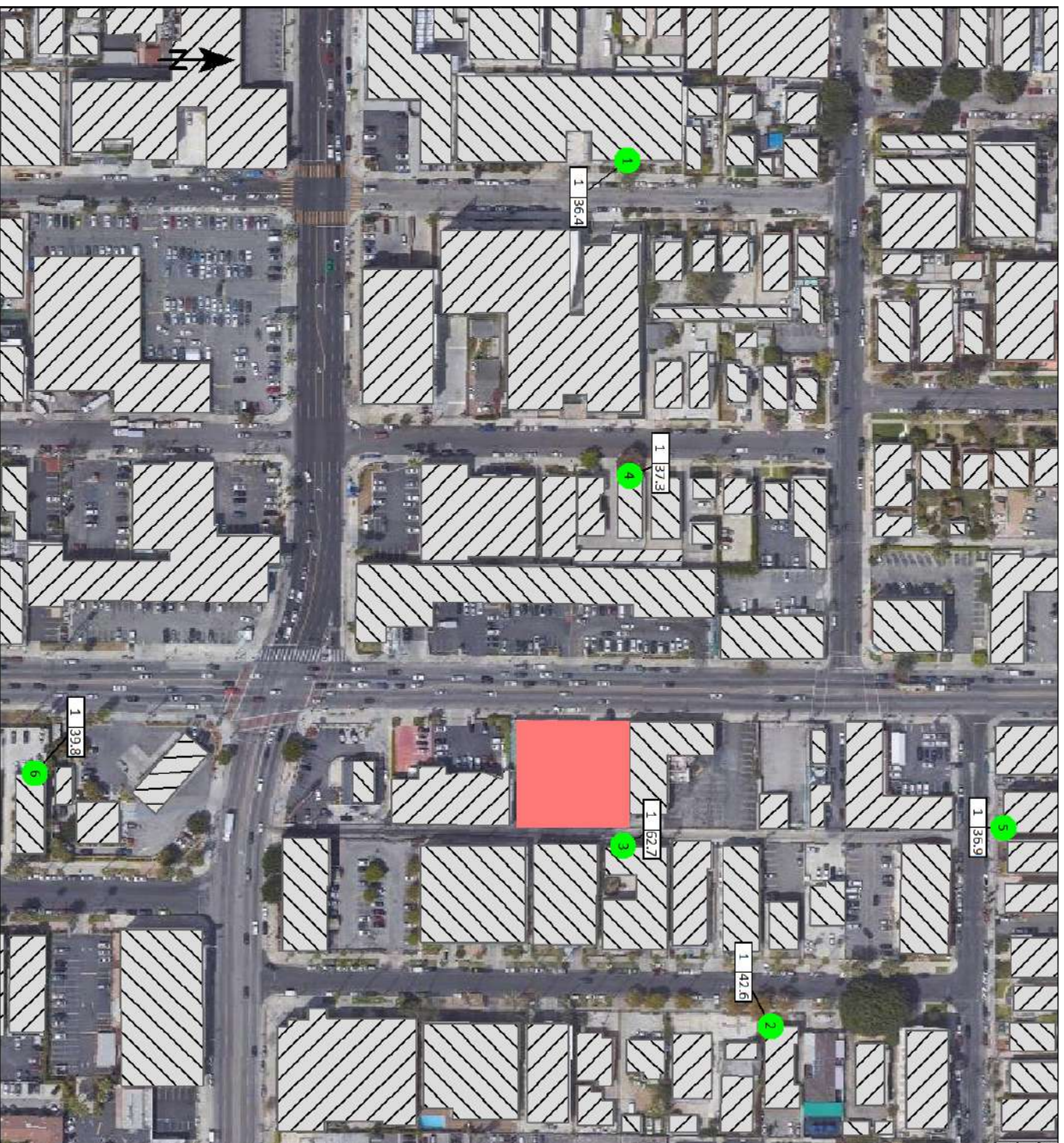


1 : 165



DOUGLASS KIM + ASSOCIATES, LLC

966 South Vermont Avenue



Signs and symbols

-  Building
-  Analyzed Sensitive Receptor
-  Construction Site

1 : 165

0 40 80 160 240 320
feet



DOUGLASS KIM + ASSOCIATES, LLC

Construction Noise Impacts



DOUGLAS KIM + ASS

Reference	15.24	meter
Sound Pressure Level (Lp)	75.0	dBA
Sound Power Level (Lw)	109.7	dB

Receptor	Existing Leq	Noise	New Leq	Difference Leq	Significant?
Berendo Street Korean School	57.0	36.4	57.0	0.0	No
Residences - New Hampshire Avenue	57.9	37.3	57.9	0.0	No
Residences - San Marino Street	59.4	36.9	59.4	0.0	No
Rainbow Child Development Center	61.8	42.6	61.9	0.1	No
Residences - Menlo Avenue	64.7	62.7	66.8	2.1	No
Residences - Vermont Avenue	66.7	39.8	66.7	0.0	No

OFF-SITE CONSTRUCTION-RELATED TRAVEL VOLUMES



Douglas Development LLC

Construction Phase	Worker Trips	Vendor Trips	Haul Trips	Total	% of Traffic Volumes
Demolition	10	0	45.1	55	1.8%
Grading	7.5	0	455.6	463	15.5%
Trenching	5	0		5	0.2%
Building Construction	80	42.8		123	4.1%
Architectural Coatings	16	0		16	0.5%
Vendor and Haul trips represent heavy-duty truck trips with a 19.1 Passenger Car Equivalent applied					

2990 Traffic Volumes on Vermont Avenue at Olympic Boulevard



DOUGLASKIM+ASSOCIATES,LLC

TRAFFIC NOISE CALCULATIONS



City Of Los Angeles
Department Of Transportation
MANUAL TRAFFIC COUNT SUMMARY

STREET:
North/South Vermont Ave

East/West Olympic Blvd

Day: Wednesday **Date:** September 14, 2016 **Weather:** SUNNY

Hours: 7-10 & 3-6 **Chekr:** NDS

School Day: YES **District:** **I/S CODE**

	N/B	S/B	E/B	W/B
DUAL-WHEELED	149	154	144	186
BIKES	91	87	55	55
BUSES	94	98	74	59

	N/B	TIME	S/B	TIME	E/B	TIME	W/B	TIME
<i>AM PK 15 MIN</i>	364	7.15	337	7.45	448	8.30	427	8.00
<i>PM PK 15 MIN</i>	333	17.00	342	16.30	463	17.15	385	17.15
<i>AM PK HOUR</i>	1333	8.15	1308	7.30	1696	8.00	1597	7.45
<i>PM PK HOUR</i>	1242	17.00	1271	16.00	1742	16.45	1403	17.00

NORTHBOUND Approach

Hours	Lt	Th	Rt	Total
7-8	103	1193	28	1324
8-9	113	1118	58	1289
9-10	99	1138	53	1290
15-16	99	980	57	1136
16-17	105	1006	50	1161
17-18	113	1070	59	1242
TOTAL	632	6505	305	7442

SOUTHBOUND Approach

Hours	Lt	Th	Rt	Total
7-8	120	1039	105	1264
8-9	153	903	152	1208
9-10	118	937	158	1213
15-16	136	908	141	1185
16-17	155	988	128	1271
17-18	140	939	117	1196
TOTAL	822	5714	801	7337

TOTAL

N-S
2588
2497
2503
2321
2432
2438
14779

XING S/L

Ped	Sch
42	5
36	6
54	0
93	26
91	11
70	3
386	51

XING N/L

Ped	Sch
91	10
55	3
61	3
60	26
83	12
103	1
453	55

EASTBOUND Approach

Hours	Lt	Th	Rt	Total
7-8	83	1126	76	1285
8-9	95	1524	77	1696
9-10	96	1079	75	1250
15-16	143	1299	106	1548
16-17	124	1425	107	1656
17-18	115	1519	84	1718
TOTAL	656	7972	525	9153

WESTBOUND Approach

Hours	Lt	Th	Rt	Total
7-8	68	1386	78	1532
8-9	39	1476	67	1582
9-10	81	1171	79	1331
15-16	85	1012	76	1173
16-17	85	1078	92	1255
17-18	80	1246	77	1403
TOTAL	438	7369	469	8276

TOTAL

E-W
2817
3278
2581
2721
2911
3121
17429

XING W/L

Ped	Sch
93	19
63	6
58	4
108	30
115	20
139	9
576	88

XING E/L

Ped	Sch
158	27
103	33
92	30
124	45
131	25
150	4
758	164

TRAFFIC VOLUME ADJUSTMENTS

North/South Vermont Avenue
 East/West Olympic Boulevard
 Year 2016
 Hour 7:00-8:00 A.M.
 Source https://navigatela.lacity.org/dot/traffic_data/manual_counts/7304_OLYVER160914.pdf



	NB Approach	SB Approach	EB Approach	WB Approach		
LT						
TH						
RT						
Total	1324	1264	1285	1532		1.07%

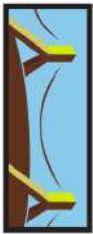
2016	1,324	1,264	1,285	1,532	2,588	
2017	1,337	1,277	1,298	1,547	2,614	
2018	1,351	1,289	1,311	1,563	2,640	
2019	1,364	1,302	1,324	1,578	2,666	
2020	1,378	1,315	1,337	1,594	2,693	
2021	1,392	1,328	1,351	1,610	2,720	
2022	1,405	1,342	1,364	1,626	2,747	2,990

	NB Approach	SB Approach	EB Approach	WB Approach		
Auto	1,148	1,096	1,114	1,328	6,048,810	82.5%
MDT	178	170	173	206	940,092	12.8%
HDT	5	5	5	6	25,348	0.3%
Buses	2	2	2	2	9,386	0.1%
MCY	32	30	31	37	167,287	2.3%
Aux	27	26	26	31	142,856	1.9%
Total	1,392	1,328	1,351	1,610	7,333,779	100.0%



DOUGLASKIM+ASSOCIATES,LLC

DEMOLITION ANALYSIS



DOUGLASS KIM + ASSOCIATES, LLC

CONSTRUCTION BUILDING DEBRIS

Materials	Total SF	Height	Cubic Yards	Pounds per Cub		Tons	Truck Capacity	
				Low	Low		(CY)	Truck Trips
Construction and Demolition	0							
General Building	16,392	12	3,391		1,000	1,695	10	678
Single Family Residence	-	12	-		1,000	-	10	-
Multi-Family Residence		12	-		1,000	-	10	-
Mobile Home					1,000	-	10	-
Mixed Debris					500	-	10	-
Vegetative Debris (Hardwoods)					500	-	10	-
Vegetative Debris (Softwoods)					333	-	10	-
Asphalt or concrete (Constructor	8,900	0.5	165		2,400	198	10	33
TOTAL			3,555			1,893		711

Source: Federal Emergency Management Agency, Debris Estimating Field Guide (FEMA 329), September 2010

Source (Asphalt or concrete): CalRecycle Solid Waste Cleanup Program Weights and Volumes for Project Estimates; <http://www.calrecycle.ca.gov/sw/facilities/cdl/Tools/Calculations.htm>



DOUGLASKIM+ASSOCIATES,LLC

GRADING ANALYSIS



DOUGLASKIM+ASSOCIATES, LLC

SOIL TRANSPORT WITH SHRINK AND SWELL FACTORS

	CY	% Swell	Adjusted CY	Truck Capacity (CY)	Truck Trips
Topsoil	1,042	56%	1,625	10	325
Clay (Dry)	23,958	50%	35,938	10	7,188
Clay (Damp)		67%	-	10	-
Earth, loam (Dry)		50%	-	10	-
Earth, loam (Damp)		43%	-	10	-
Dry sand		11%	-	10	-
TOTAL	25,000		37,563		7,513

Note: Topsoil considered the top ten inches of soil (Wikipedia)

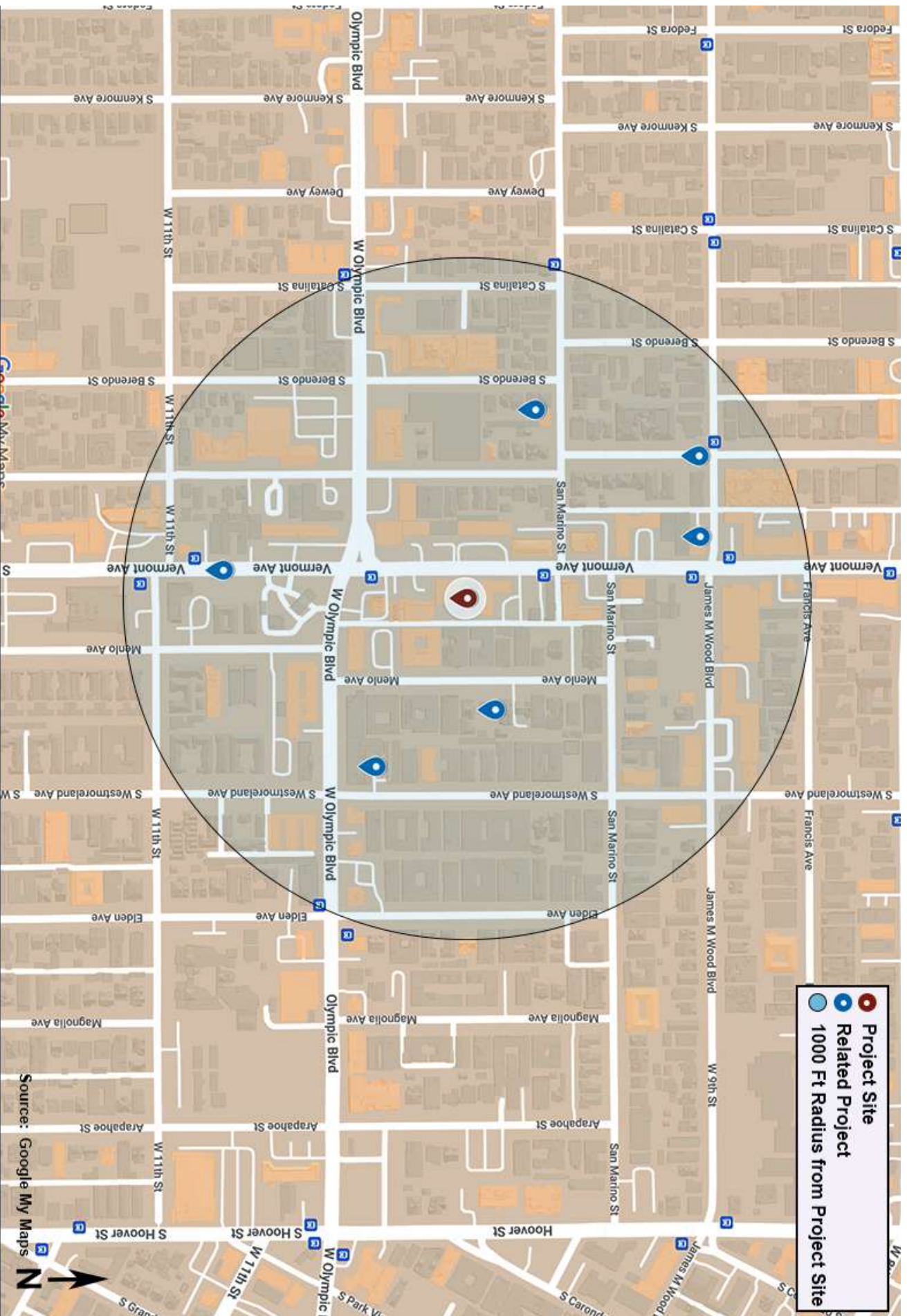
Note: Soil below topsoil assumed to be dry clay; Source: Lyngso website, <https://www.lyngsogarden.com/community-resources/tips-on-modifying-your-california-soil-with-amendments/>

Source: US Department of Transportation Determination of Excavation and Embankment Volumes, <https://highways.dot.gov/federal-lands/pddm/dpg/earthwork-design>



DOUGLASKIM+ASSOCIATES,LLC

CUMULATIVE PROJECTS



DOUGLASKIM+ASSOCIATES, LLC

CLATS

RELATED PROJECTS

Centroid Info:

PROJ ID: 53763
Address: 956 S VERNMONT AVE
LOS ANGELES, CA 90006
Lat/Long: 34.0537, -118.291

Buffer Radius:

0.5 mile

Column

Include NULL "Trip Info": ☐
Include NULL "FirstStudySubmittalDate" (latest): ☐
Include "Inactive" projects: ☐
Include "Do not show in Related Project": ☐

Net_AM_Trips
Net_PM_Trips
Net_Daily_Trips

Results generated since: (6/28/2022 4:32:32 PM)

Welcome jimmy! | [Log Out](#) | [Profile](#) | [Admin](#)

Record Count: 22 Record Per Page: <input type="button" value="All Records"/> <input type="button" value="v"/>	ProjID	Office	Area	CD	Year	Project Title	Project Desc	Address	First Study Submittal Date	Distance (mile)	Trip Info
---	--------	--------	------	----	------	---------------	--------------	---------	----------------------------	-----------------	-----------

43101

Metro

HWD

10

2015

Mixed-Use

100 Apts & 9496 SF Retail, Nearing completion 2021

3100 W 8th St

07/02/2015

0.2

Land Use	Unit ID	size	Net_AM	Trips	Net_PM	Trips	Net_Daily	Trips	NetAMin	NetAMOut	NetPMIn	NetPMOut	Comments
Apartments	Total Units	100	51	62	100	10	41	10	41	10	41	10	41
	51			62	100			10	41		10		41

Existing restaurant to remain.

45064	Metro	HWD	10	2016	Hotel	99 Hotel Rooms	966 S DENVER AV	01/26/2017	0.3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															</
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48903	Metro	HWD	10	2019	Mixed-Use (revised)	126 Apartments, 6000 SF Retail/Restaurant	2870 W Olympic bl	10/09/2019	0.3																																										
<table><tr><th>Land Use</th><th>Unit ID</th><th>size</th><th>Net_AM</th><th>Trips</th><th>Net_PM</th><th>Trips</th><th>Net_Daily</th><th>Trips</th><th>NetAMin</th><th>NetAMOut</th><th>NetPMIn</th><th>NetPMOut</th><th>Comments</th></tr><tr><td>Apartments</td><td>Total Units</td><td>126</td><td>52</td><td>69</td><td>825</td><td>8</td><td>44</td><td>47</td><td>22</td><td colspan="4">Total includes credit for transit, internal, pass-by and existing uses.</td></tr><tr><td>Retail</td><td>S.F. Gross Area</td><td>6000</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>										Land Use	Unit ID	size	Net_AM	Trips	Net_PM	Trips	Net_Daily	Trips	NetAMin	NetAMOut	NetPMIn	NetPMOut	Comments	Apartments	Total Units	126	52	69	825	8	44	47	22	Total includes credit for transit, internal, pass-by and existing uses.				Retail	S.F. Gross Area	6000											
Land Use	Unit ID	size	Net_AM	Trips	Net_PM	Trips	Net_Daily	Trips	NetAMin	NetAMOut	NetPMIn	NetPMOut	Comments																																						
Apartments	Total Units	126	52	69	825	8	44	47	22	Total includes credit for transit, internal, pass-by and existing uses.																																									
Retail	S.F. Gross Area	6000																																																	
		52		69		825		8	44	47	22																																								

52063	Metro	HWD	10	2021	Berendo Apartments	77 unit (69 market, 8 afford.) Access from S Berendo St	950 S BERENDO ST	12/14/2021	0.1															
										Land Use	Unit ID	size	Net_AM	Trips	Net_PM	Trips	Net_Daily	Trips	NetAMin	NetAMOut	NetPMIn	NetPMOut	Comments	
										Apartments	Total Units	77	23	29	333	6	17	16	11	69 market rate units, 8 affordable.				
											23		29		333		6	17	16	11				

52481

Metro MTR 10 2021 Mixed-Use

80 Hotel Rooms, 8 Condominiums, 7273 SF Retail

3216 W 8th St

11/04/2021

0.5

Land Use	Unit ID	size	Net_AM	Trips	Net_PM	Trips	Net_Daily	Trips	NetAMin	NetAMOut	NetPMIn	NetPMOut	Comments
Other	Rooms	95											Hotel Rooms
Retail	S.F. Gross Area	4716											
		0		0		0				0		0	

53223

Metro

MTR

1

2022

2641 W Olympic Blvd

143 m hotel, 1500 sf restaurant, 2 levels parking

2641 W Olympic BL

06/16/2022

0.1

Land Use	Unit ID	size	Net_AM	Trips	Net_PM	Trips	Net_Daily	Trips	NetAMin	NetAMOut	NetPMIn	NetPMOut	Comments
Apartments	Total Units	143	64	81	828	36	28	44	37				Hotel Rooms
Retail	S.F. Gross Area	1500											Restaurant Space
		64	81	828		36	28	44	37				

53515 Metro MTR 10 2022 Mixed Use 966 S Vermont

966 S Vermont

05/18/2022

0.0

Land Use	Unit ID	size	Net_AM	Trips	Net_PM	Trips	Net_Daily	Trips	NetAMin	NetAMOut	NetPMIn	NetPMOut	Comments
Apartments	Total Units	81	24		-50		-557	4	20	-36	-14		81 Market Rate Units
Apartments	Total Units	9											9 affordable units
Retail	S.F. Net Area	2815											
		24		-50		-557			4	20	-36	-14	

49536

Metro

MTR

1

2020

Affordable Housing

131 Affordable Housing Units

1224 S MIENLO AVE

07/16/2020

0.4

Land Use	Unit ID	size	Net_AM	Trips	Net_PM	Trips	Net_Daily	Trips	NetAMin	NetAMOut	NetPMIn	NetPMOut	Comments
Other	Total Units	131	56	35	349	18	38	24	13				Affordable Housing Units
		56		35	349		18	38	24	13			

50315

Metro

MTR

1

2020

2859 Francis Residential Project

8 sty/res bldg (110 units)inc affordable hsg, Pkg on 1 subter lev

2859 W Francis ave

11/05/2020

Land Use	Unit ID	size	Net_AM	Trips	Net_PM	Trips	Net_Daily	Trips	NetAMin	NetAMOut	NetPMIn	NetPMOut	Comments
Apartments	Total Units	110	40	48	508	10	30	29	19				Includes affordable housing
		40		48	508		10	30	29		19		

50690	Metro	MTR	1	2020	Residential	100 Apartments	1025 S MARIPOSA AV	01/11/2021																	
										Land Use	Unit ID	size	Net_AM	Trips	Net_PM	Trips	Net_Daily	Trips	NetAMin	NetAMOut	NetPMIn	NetPMOut	Comments		
										Apartments	Total Units	100	26	30	392	7	19	19	11						
												26		30	392		7	19	19	11					

51453	Metro	MTR	1	2021	Hotel	96 Room Hotel	958 S MIENLO AV	11/01/2021	0.1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														</
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45860	Metro	MTR	10	2017	Apartments	68 Apartments	923 S KENMORE AV	06/28/2017			0.3																																										
<table><tr><th>Land Use</th><th>Unit ID</th><th>size</th><th>Net_AM</th><th>Trips</th><th>Net_PM</th><th>Trips</th><th>Net_Daily</th><th>Trips</th><th>NetAMin</th><th>NetAMOut</th><th>NetPMIn</th><th>NetPMOut</th><th>Comments</th></tr><tr><td>Apartments</td><td>Total Units</td><td>69</td><td>33</td><td>40</td><td>432</td><td>7</td><td>26</td><td>26</td><td>15</td><td></td><td></td><td></td><td>Total net project trips</td></tr><tr><td></td><td></td><td></td><td>33</td><td>40</td><td>432</td><td>7</td><td>26</td><td>26</td><td>15</td><td></td><td></td><td></td><td></td></tr></table>												Land Use	Unit ID	size	Net_AM	Trips	Net_PM	Trips	Net_Daily	Trips	NetAMin	NetAMOut	NetPMIn	NetPMOut	Comments	Apartments	Total Units	69	33	40	432	7	26	26	15				Total net project trips				33	40	432	7	26	26	15				
Land Use	Unit ID	size	Net_AM	Trips	Net_PM	Trips	Net_Daily	Trips	NetAMin	NetAMOut	NetPMIn	NetPMOut	Comments																																								
Apartments	Total Units	69	33	40	432	7	26	26	15				Total net project trips																																								
			33	40	432	7	26	26	15																																												

46320

Metro

MTR

10

2017

Mariposa & Fedora

2 Projects(Total 173 Apts)Mariposa w/98 & Fedora w/75 21 in const. 840 S MARIPOSA AV

11/28/2017

Land Use	Unit ID	size	Net_AM	Trips	Net_PM	Trips	Net_Daily	Trips	NetAMin	NetAMOut	NetPMIn	NetPMOut	Comments
Apartments	Total Units	173	75	92	978	15	60	61	31	Combination of both projects			
		75	92	978		15	60	61	31				

47666	Metro	MTR	1	2018	Mixed-Use	228 Apartments, 4105 SF Retail, 3738 SF High-Turnover Restaurant	2972 W 7th st	10/26/2018			0.4																																																																						
<table><tr><th>Land Use</th><th>Unit ID</th><th>size</th><th>Net_AM</th><th>Trips</th><th>Net_PM</th><th>Trips</th><th>Net_Daily</th><th>Trips</th><th>NetAMin</th><th>NetAMOut</th><th>NetPMIn</th><th>NetPMOut</th><th>Comments</th></tr><tr><td>Apartments</td><td>Total Units</td><td>228</td><td>93</td><td></td><td>130</td><td></td><td>1631</td><td></td><td>32</td><td>61</td><td>77</td><td>53</td><td>Total includes credits for pass-by and transit</td></tr><tr><td>Retail</td><td>S.F. Gross Area</td><td>4105</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Other</td><td>S.F. Gross Area</td><td>3738</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>land use=high turnover restaurant</td></tr><tr><td></td><td></td><td></td><td>93</td><td></td><td>130</td><td></td><td>1631</td><td></td><td>32</td><td>61</td><td>77</td><td>53</td><td></td></tr></table>												Land Use	Unit ID	size	Net_AM	Trips	Net_PM	Trips	Net_Daily	Trips	NetAMin	NetAMOut	NetPMIn	NetPMOut	Comments	Apartments	Total Units	228	93		130		1631		32	61	77	53	Total includes credits for pass-by and transit	Retail	S.F. Gross Area	4105												Other	S.F. Gross Area	3738											land use=high turnover restaurant				93		130		1631		32	61	77	53	
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47941	Metro	MTR	1	2019	Residential	77 Apartments	825 s coronado st	04/05/2019			0.5																																										
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Land Use	Unit ID	size	Net_AM	Trips	Net_PM	Trips	Net_Daily	Trips	NetAMin	NetAMOut	NetPMIn	NetPMOut	Comments																																								
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Land Use	Unit ID	size	Net_AM	Trips	Net_PM	Trips	Net_Daily	Trips	NetAMin	NetAMOut	NetPMIn	NetPMOut	Comments														

43163	Metro	MTR	1	2015	Apartments	1017-1031 S Mariposa Av Apartments	1017 S MARIPOSA AV	09/24/2015	0.5	Apartments	Total Units	79	28	35	373	5	23	23	12	Total net project trips	
													28	35	373		5	23	23	12	
43860	Metro	MTR	1	2015	2649 San Marino Apts	45 APTS	2649 W SAN MARINO AVE	03/30/2016	0.4	Apartments	Total Units	45	19	23	246	4	15	15	8	Total net project trips	
													19	23	246		4	4	15	15	8
44481	Metro	MTR	1	2016	Olympic & Hoover Mixed Use	173 apts & 36.18 ksf commercial/retail	2501 W OLYMPIC BLVD	09/14/2016	0.4	Apartments	Total Units	173	99		173	1911	27	72	100	73	Total net project trips 173 apts & 36180sf retail
										Retail	S.F. Gross Area	36180	99		173	1911		27	72	100	73
33710	Metro	MTR	10	2006	Mixed-Use	224 Condominium Units 7000 SF Retail	805 S Catalina St	06/11/2007	0.4	Condominiums	Total Units	300									
										Retail	S.F. Gross Area	5000	137	167	1935	24	119	110	57	Trip totals reflects credits for existing uses.	
													137	167	1935		24	119	110	57	
34651	Metro	MTR	1	2008	Mixed-Use	32 Condos, 4500 SF Retail (In Const 1/2022)	820 S HOOVER ST	05/08/2008	0.5	Condominiums	Total Units	32									
										Retail	S.F. Gross Area	4500	22	32	414	7	15	18	14	Total reflects credit for existing office (1435 SF)	
													22	32	414		7	15	18	14	
42737	Metro	MTR	1	2014	Residential	108 Apartments	1011 S PARK VIEW ST	03/03/2015	0.5	Apartments	Total Units	108	46	57	594	9	38	38	19	TOTAL NEW TRIPS	
													46	57	594		9	9	38	38	19
42829	Metro	MTR	1	2015	Apartments	93 Apartments	1255 E ELDEN AV	06/25/2015	0.5	Apartments	Total Units	93	32	38	376	0	32	28	10	Affordable housing credit and existing use applied.	
													32	38	376		0	32	28	10	



DOUGLASKIM+ASSOCIATES,LLC

CUMULATIVE CONSTRUCTION NOISE IMPACTS

Noise emissions of industry sources

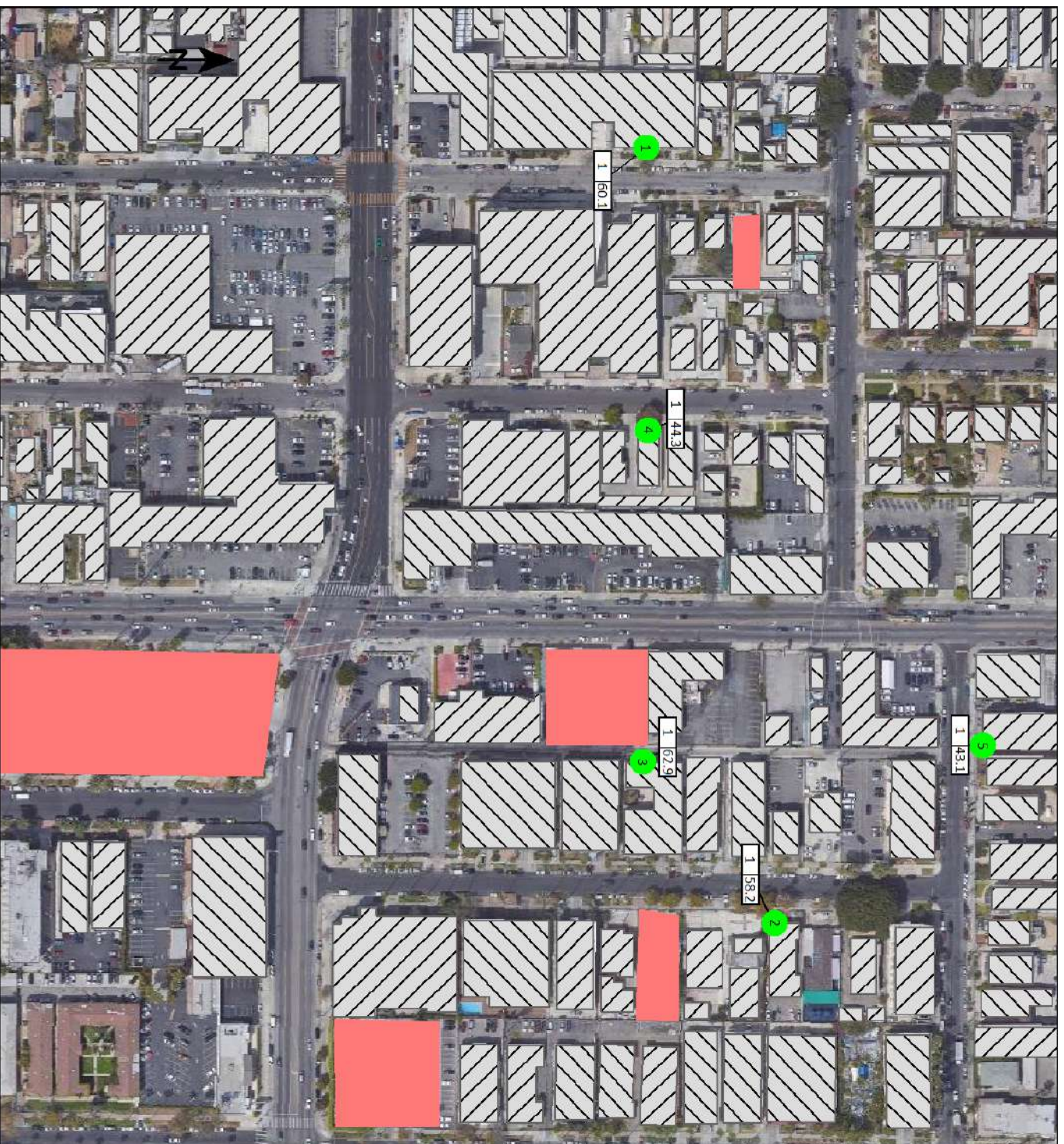
Source name	Size m/m²	Reference	Level			Corrections		
			Day dB(A)	Evening dB(A)	Night dB(A)	Cwall dB	CI dB	CT dB
Construction Site	1886 m²	Lw/unit	109.7	-	-	-	-	-
Construction Site (Related Project 958 Menlo Ave)	870 m²	Lw/unit	109.7	-	-	-	-	-
Construction Site (Related Project 1054 Vermont Ave)	8301 m²	Lw/unit	109.7	-	-	-	-	-
Construction Site (Related Project 2641 Olympic Bl)	2156 m²	Lw/unit	109.7	-	-	-	-	-
Construction Site (Related Project 950 Berendo St)	390 m²	Lw/unit	109.7	-	-	-	-	-

Receiver list

No.	Receiver name	Coordinates X Y in meter	Building side	Floor	Height abv.grd. m	Limit Day dB(A)	Level Day dB(A)	Conflict Day dB
1	Berendo Street Korean School	11380584.033768870.01	East	GF	67.03	-	60.1	-
2	Rainbow Child Development Center	11380924.0237688926.33	West	GF	71.47	-	58.2	-
3	Residences - Menlo Avenue	11380853.453768868.44	West	GF	69.31	-	62.9	-
4	Residences - New Hampshire Avenue	11380707.853768870.96	West	GF	71.51	-	44.3	-
5	Residences - San Marino Street	11380846.213769017.69	South	GF	70.03	-	43.1	-

Contribution levels of the receivers

Source name	Traffic lane	Level Day dB(A)
Berendo Street Korean School GF		60.1
Construction Site	-	36.4
Construction Site (Related Project 950 B	-	60.1
Construction Site (Related Project 958 M	-	32.2
Construction Site (Related Project 1054	-	36.9
Construction Site (Related Project 2641	-	32.8
Rainbow Child Development Center GF		58.2
Construction Site	-	42.6
Construction Site (Related Project 950 B	-	31.8
Construction Site (Related Project 958 M	-	57.8
Construction Site (Related Project 1054	-	44.7
Construction Site (Related Project 2641	-	38.5
Residences - Menlo Avenue GF		62.9
Construction Site	-	62.7
Construction Site (Related Project 950 B	-	32.1
Construction Site (Related Project 958 M	-	39.7
Construction Site (Related Project 1054	-	48.6
Construction Site (Related Project 2641	-	33.6
Residences - New Hampshire Avenue GF		44.3
Construction Site	-	37.3
Construction Site (Related Project 950 B	-	42.7
Construction Site (Related Project 958 M	-	29.6
Construction Site (Related Project 1054	-	30.7
Construction Site (Related Project 2641	-	29.0
Residences - San Marino Street GF		43.1
Construction Site	-	36.9
Construction Site (Related Project 950 B	-	33.0
Construction Site (Related Project 958 M	-	38.5
Construction Site (Related Project 1054	-	35.9
Construction Site (Related Project 2641	-	34.0



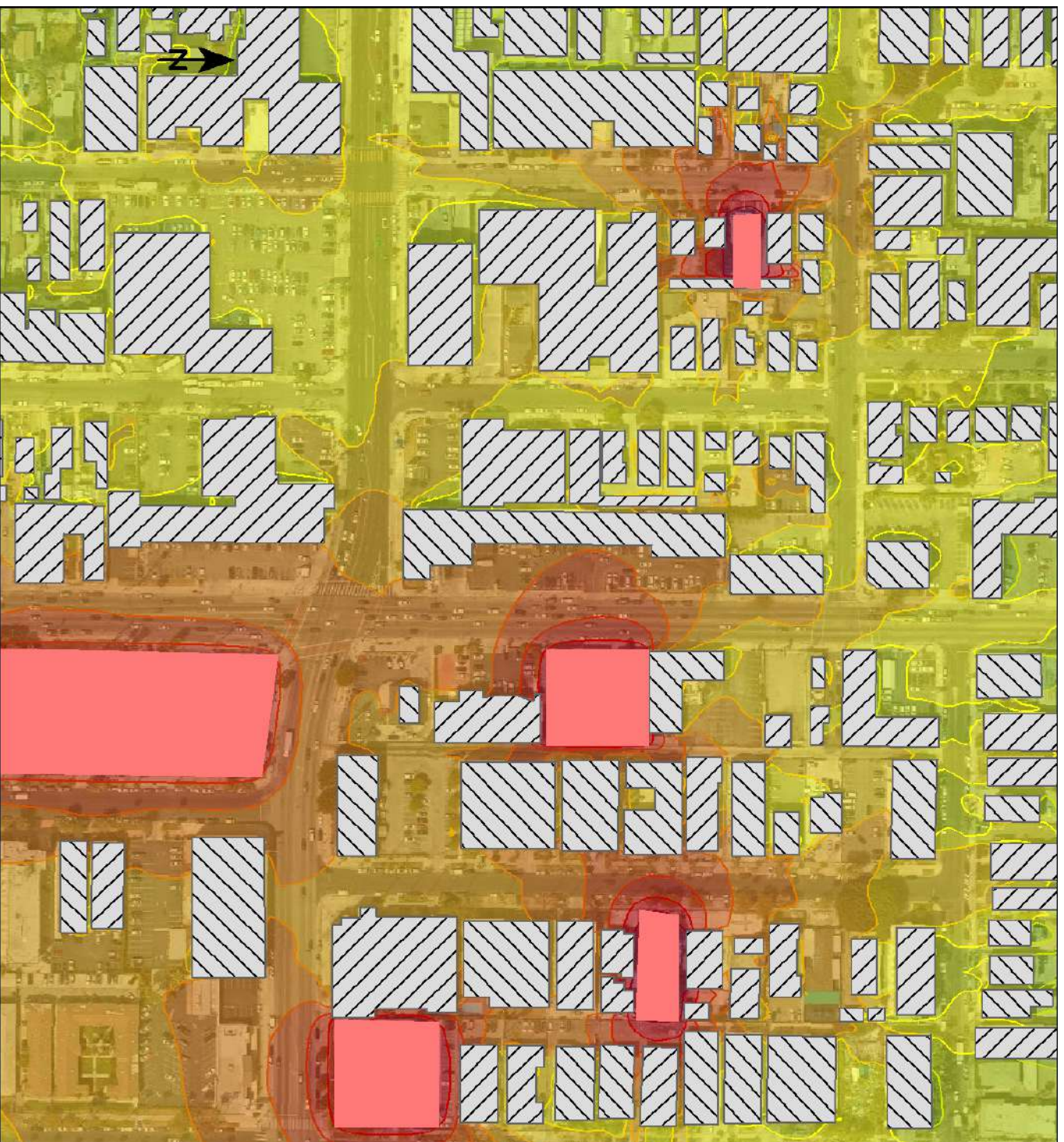
Signs and symbols

-  Building
-  Analyzed Sensitive Receptor
-  Construction Site

1 : 184
0 45 90 180 270 360
feet



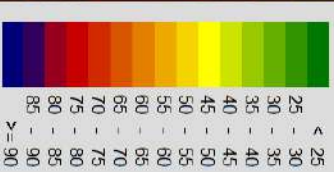
966 South Vermont Avenue



Signs and symbols

- Building
- Construction Site

Levels in dB(A)



1 : 184



DOUGLASS KIM + ASSOCIATES, LLC

Cumulative Construction Noise Impacts



DOUGLAS KIM + ASSOCIATES

Reference	15.24	meter
Sound Pressure Level (Lp)	75.0	dBA
Sound Power Level (Lw)	109.7	dB

Receptor	Existing Leq	Noise	New Leq	Difference Leq	Significant?
Berendo Street Korean School	57.0	60.1	61.8	4.8	No
Residences - New Hampshire Avenue	57.9	44.3	58.1	0.2	No
Residences - San Marino Street	59.4	43.1	59.5	0.1	No
Rainbow Child Development Center	61.8	58.2	63.4	1.6	No
Residences - Menlo Avenue	64.7	62.9	66.9	2.2	No