Appendix H Noise Model Outputs

C:\LARDAV\SLMUTIL\13NOV_13.bin

Site	Interval Location	Data Number	Date	Time	Duration	Leq	SEL	Lmax	Lmin	5)	L(10)	L(50)	L(90)	L(95)	L(99)
1	0	0	13-Nov	13:12:49	1200	48.6	79.4	64	42.1	50.9	49.5	46.3	44	43.4	42.6
2	0	0	13-Nov	13:40:43	1200	50.4	81.2	58.7	43.6	53.6	52.6	50	46.5	45.7	44.5
3	0	0	13-Nov	14:12:49	1200	48.3	79.1	67.2	42.3	51.9	49.7	46.4	44	43.5	42.8
4	0	0	13-Nov	14:45:43	1200	51.1	81.9	58.9	43.8	54.3	53.5	50.4	47.3	46.7	45
5a	0	0	13-Nov	15:15:09	1200	64	94.8	77.1	41.4	71.7	68.8	55.1	45.5	44.8	42.8
5b	0	0	13-Nov	15:37:16	1200	61.9	92.7	77.3	40.3	68.9	63.7	52.9	45.8	44.7	43.1

SOUND MEASUREMENT DATASHEET: SHORT-TERM (AMBIENT): L1-10-50-90-95-99

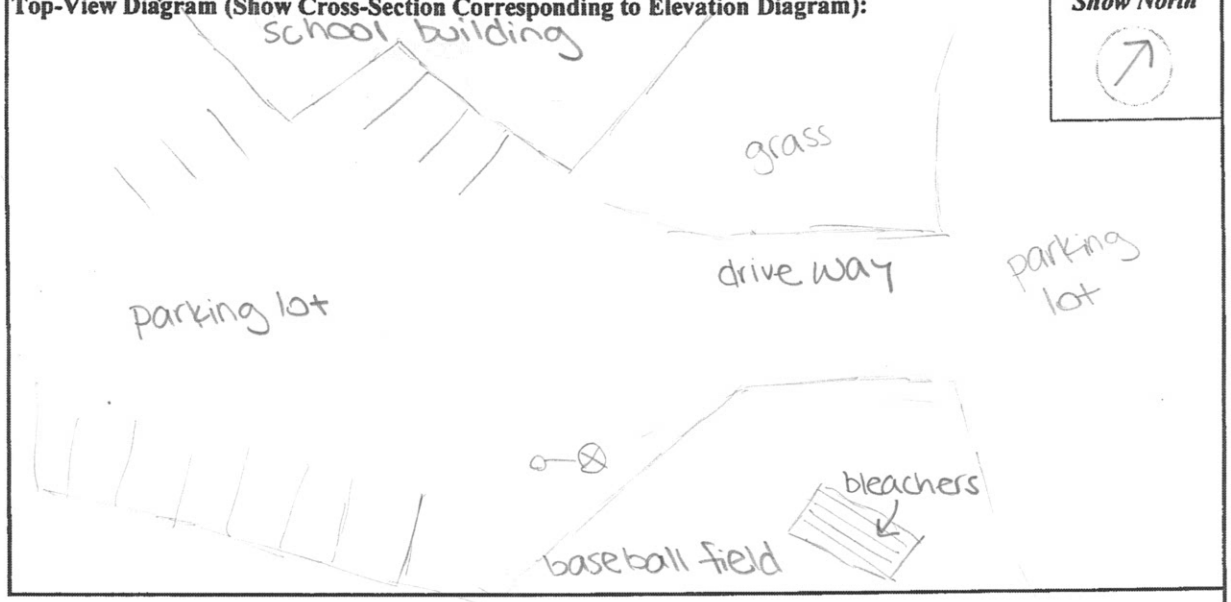
Location # 1

Project: LeBard Park	**Date:** 11/13/14	**Eqpt:** Larson Davis 820	**Photos:**
Temp: Hot Warm (Mild) Cool Cold	**Wind (mph):** ≤2.5 (2.5-5) 5-10 ≥10 **(dir):** N E S (W) Δ	**Cloud Cover:** Clear Pt. Cld. (Clouds) Fog	
Location Desc.: middle of site	**Noise Source(s):** airplane, skateboard, cars in lot		
Rcp. Info:	**Ground Effects:** asphalt		
Barrier Effects: none			

Meas. Int.:			
Roadway: parking lot			
Segment:			
Spd: *Post:* / ***Trav.:***			
Volumes			
Auto	**MT**	**HT**	**Dir.**
0	0	0	NB/EB
0	0	0	SB/WB

Meas. Int.:			
Roadway:			
Segment:			
Spd: *Post:* **Trav.:**			
Volumes			
Auto	**MT**	**HT**	**Dir.**
			NB/EB
			SB/WB

Top-View Diagram (Show Cross-Section Corresponding to Elevation Diagram):



Show North

Elv. Diagram (vertical):

(ft) (ft)

General Comments:

Cal. Δ @Int1		Cal. √		Offset
Yes	No	Int #:		-0.2

Description	Int. #	Start (h:m(:s))	Duration ((h:)m:s)	SEL	Leq	Lmin	Lmax	L1	L10	L50	L90	L95	L99	Event/Anomaly Info: Description	Lmax	Begin	End
		13:12:39	20 min	79.4	48.6	42.1	64.0	50.9	49.5	46.3	44.0	43.4	42.6				

Data File: _____

Recorded By: Janelle Kassarjian

SOUND MEASUREMENT DATASHEET: SHORT-TERM (AMBIENT): L1-10-50-90-95-99

Location # 2

Project: LeBard Park	**Date:** 11/13/14	**Eqpt:** Larson Davis 820	**Photos:**
Temp: Hot Warm (Mild) Cool Cold	**Wind (mph):** (≤2.5) 2.5-5 5-10 ≥10 **(dir):** N E S (W) Δ	**Cloud Cover:** Clear Pt. Cld. (Clouds) Fog	
Location Desc.: western edge of school	**Noise Source(s):** airplane, cars on Brookhurst St, distant lawn mower		
Rcp. Info:	**Ground Effects:** asphalt		
Barrier Effects: none			

Meas. Int.:

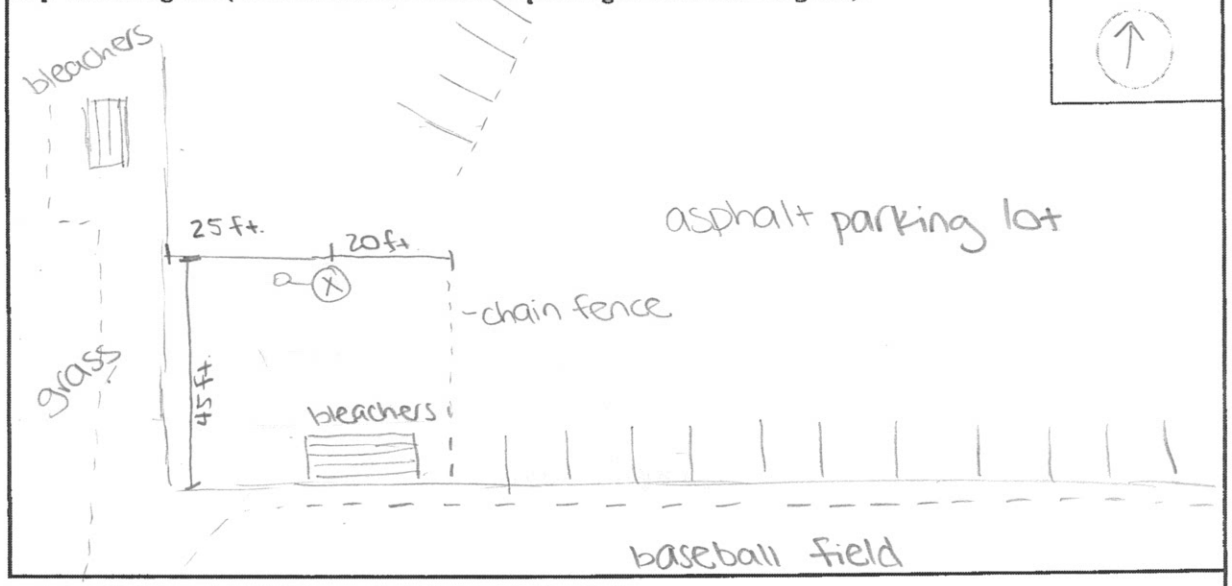
Roadway: parking lot			
Segment:			
Spd: *Post:* **_Trav.:_** 5mph			
Volumes			
Auto	**MT**	**HT**	**Dir.**
1	0	0	NB/EB
0	0	0	SB/WB

Meas. Int.:

Roadway:			
Segment:			
Spd: *Post:* **_Trav.:_**			
Volumes			
Auto	**MT**	**HT**	**Dir.**
			NB/EB
			SB/WB

Top-View Diagram (Show Cross-Section Corresponding to Elevation Diagram):

Show North ↑



Elv. Diagram (vertical):

(ft) (ft)

General Comments:

Cal. Δ @Int1		**Cal. √**	**Offset**
Yes	No	**Int #:**	-0.2

Description	**Int. #**	**Start (h:m(:s))**	**Duration ((h:)m:s)**	**SEL**	**Leq**	**Lmin**	**Lmax**	**L1**	**L10**	**L50**	**L90**	**L95**	**L99**	**Event/Anomaly Info**			
														Description	**Lmax**	**Begin**	**End**
		13:40:43	20 mins	81.2	50.4	43.6	58.7	53.6	52.6	50.0	46.5	45.7	44.5				

Data File: _____

Recorded By: Janelle Kassarjian

SOUND MEASUREMENT DATASHEET: SHORT-TERM (AMBIENT): L1-10-50-90-95-99

Location # 3

Project: LeBard Park	**Date:** 11/13/14	**Eqpt:** Larson Davis 820	**Photos:**
Temp: Hot Warm (Mild) Cool Cold	**Wind (mph):** (≤2.5) 2.5-5 5-10 ≥10 **(dir):** N E S (W) Δ	**Cloud Cover:** Clear (Pt. Cld.) Clouds Fog	
Location Desc.: Cynthia Drive	**Noise Source(s):** kids at playground, residents talking		
Rcp. Info:	**Ground Effects:** grass		
Barrier Effects: none			

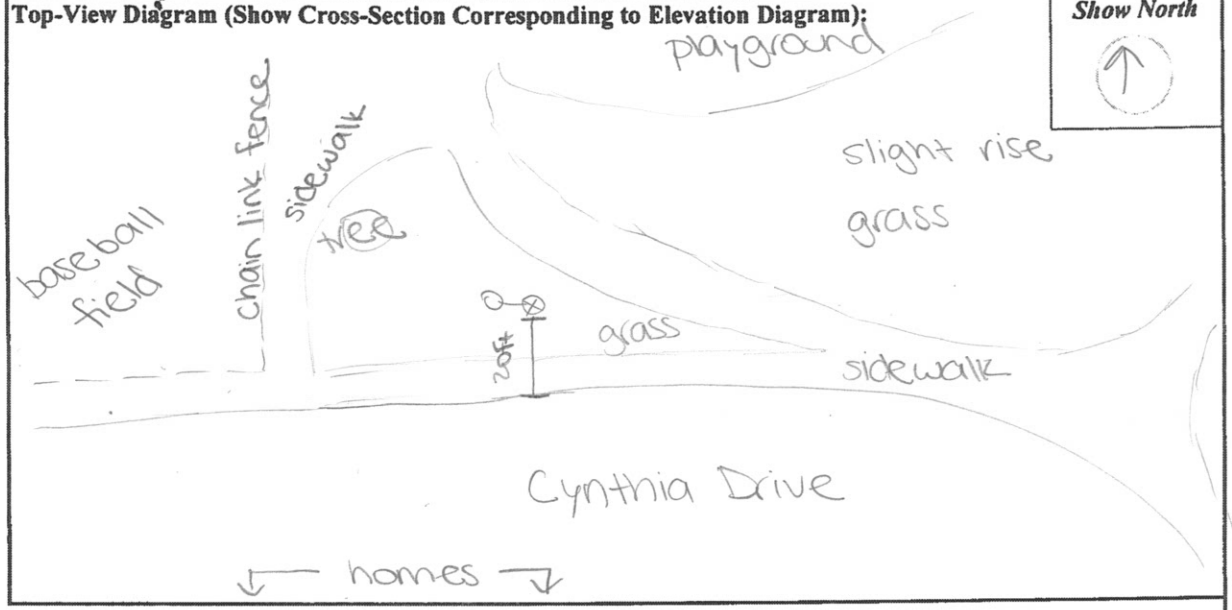
Meas. Int.:

Roadway: Cynthia Dr.			
Segment:			
Spd: *Post:* 25 ***Trav.:*** 25			
Volumes			
Auto	**MT**	**HT**	**Dir.**
1	0	0	NB/EB
0	0	0	SB/WB

Meas. Int.:

Roadway:			
Segment:			
Spd: *Post:* ***Trav.:***			
Volumes			
Auto	**MT**	**HT**	**Dir.**
			NB/EB
			SB/WB

Top-View Diagram (Show Cross-Section Corresponding to Elevation Diagram):



Elv. Diagram (vertical):

(ft) (ft)

General Comments:

residents talking at 2:15 pm

Cal. Δ @Int1		**Cal. √**	**Offset**
Yes	No	**Int #:**	-0.2

Description	**Int. #**	**Start (h:m(:s))**	**Duration ((h:)m:s)**	**SEL**	**Leq**	**Lmin**	**Lmax**	**L1**	**L10**	**L50**	**L90**	**L95**	**L99**	**Event/Anomaly Info**			
														Description	**Lmax**	**Begin**	**End**
		14:12:49	20 mins	79.1	48.3	42.3	67.2	51.9	49.7	46.4	44.0	43.5	42.8	talking		14:25	14:27

Data File: _____ **Recorded By:** _____

SOUND MEASUREMENT DATASHEET: SHORT-TERM (AMBIENT): L1-10-50-90-95-99

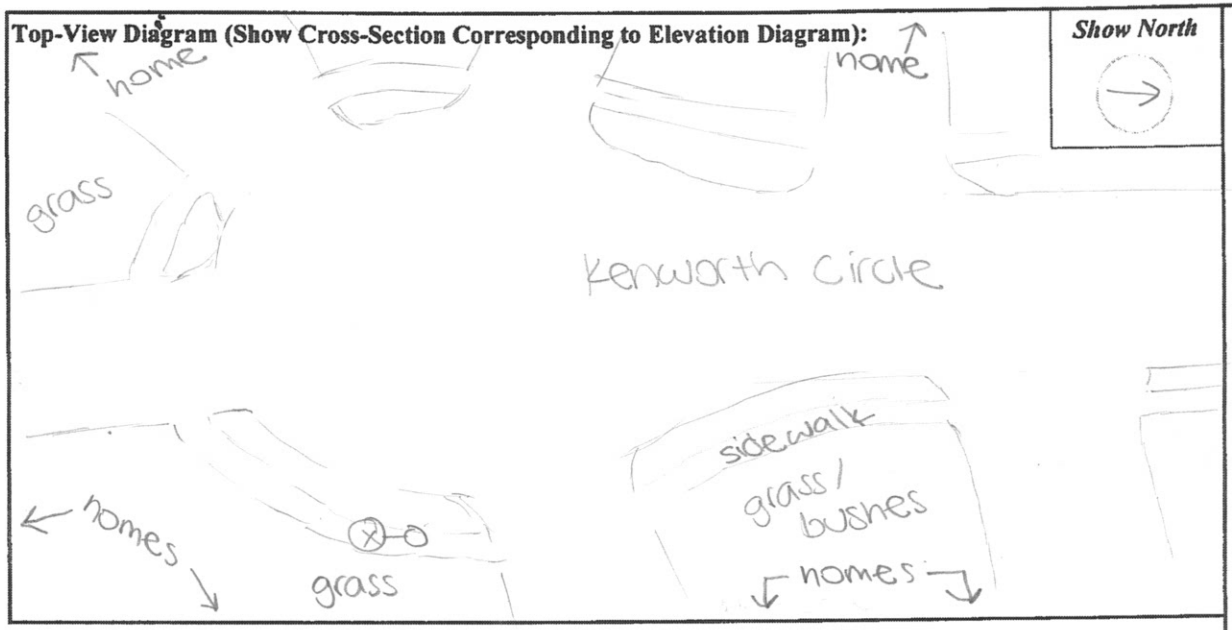
Location # 4

Project: LeBard Park	**Date:** 11/13/14	**Eqpt:** Larson Davis 820	**Photos:**
Temp: Hot Warm Mild (Cool) Cold	**Wind (mph):** (≤2.5) 2.5-5 5-10 ≥10 **(dir):** N E S W Δ	**Cloud Cover:** Clear Pt. Cld. (Clouds) Fog	
Location Desc.: Kenworth Circle	**Noise Source(s):** cars on Brookhurst St.		
Rcp. Info:	**Ground Effects:** cement		
Barrier Effects: none			

Meas. Int.:			
Roadway: Kenworth			
Segment:			
Spd: *Post:* 25 ***Trav.:***			
Volumes			
Auto	**MT**	**HT**	**Dir.**
0	0	0	NB/EB
0	0	0	SB/WB

Meas. Int.:			
Roadway:			
Segment:			
Spd: *Post:* ***Trav.:***			
Volumes			
Auto	**MT**	**HT**	**Dir.**
			NB/EB
			SB/WB

Top-View Diagram (Show Cross-Section Corresponding to Elevation Diagram):



Show North

Elv. Diagram (vertical):

(ft) (ft)

General Comments:

Cal. Δ @Int1		Cal. √		Offset
Yes	No	Int #:		

Description	Int. #	Start (h:m(:s))	Duration ((h):m:s)	SEL	Leq	Lmin	Lmax	L1	L10	L50	L90	L95	L99	Event/Anomaly Info: Description	Lmax	Begin	End
		14:45:43	20min	81.9	51.1	43.9	58.9	54.3	53.5	50.4	47.3	46.7	45.0				

Data File: _____

Recorded By: Janelle Kassarjian

SOUND MEASUREMENT DATASHEET: SHORT-TERM (AMBIENT): L1-10-50-90-95-99

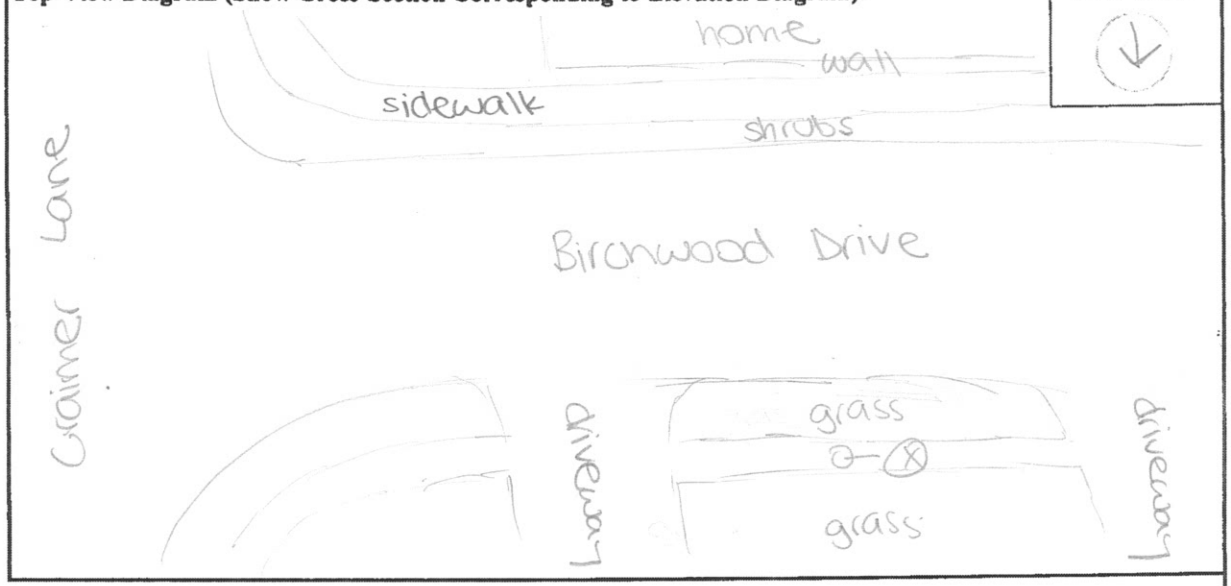
Location # 5

Project: LeBard Park	**Date:** 11/13/14	**Eqpt:** Larson Davis 820	**Photos:**
Temp: Hot Warm Mild (Cool) Cold	**Wind (mph):** ≤2.5 (2.5-5) 5-10 ≥10 **(dir):** N E S W Δ	**Cloud Cover:** Clear Pt. Cld. (Clouds) Fog	
Location Desc.: Birchwood Drive	**Noise Source(s):** cars, lawn mower at neighboring property		
Rcp. Info:	**Ground Effects:** cement		
Barrier Effects: none			

Meas. Int.:			
Roadway: Birchwood			
Segment:			
Spd: *Post:* 25 ***Trav.:*** 25			
Volumes			
Auto	**MT**	**HT**	**Dir.**
2	0	0	NB/(EB)
0	0	0	SB/WB

Meas. Int.:			
Roadway:			
Segment:			
Spd: *Post:* ***Trav.:***			
Volumes			
Auto	**MT**	**HT**	**Dir.**
			NB/EB
			SB/WB

Top-View Diagram (Show Cross-Section Corresponding to Elevation Diagram):



Show North

Elv. Diagram (vertical):

(ft) (ft)

General Comments: gardeners arrived mid measure, took 2 measurements, without gardening equipment, measures 44-46

Cal. Δ @Int1		Cal. √	Offset
Yes	No	Int #:	-0.2

Description	Int. #	Start (h:m(:s))	Duration ((h:)m:s)	SEL	Leq	Lmin	Lmax	L1	L10	L50	L90	L95	L99	Event/Anomaly Info: Description	Lmax	Begin	End
cars: 2 EB	5	15:15:09	20	94.8	64.0	41.4	77.1	71.7	68.8	55.1	45.5	41.8	42.9	leaf blower			
cars: 2 EB	6	15:37:16	20	92.7	61.9	40.3	77.3	68.9	63.7	52.9	45.8	44.7	43.1	leaf blower in front yard	76	3:44pm	3:49
															77	3:56	3:57

Data File: _____

Recorded By: Janelle Kassarjian

TRAFFIC NOISE LEVELS AND NOISE CONTOURS

Project Number: 100030959
Project Name: LeBard

Background Information

Model Description: FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels.
Source of Traffic Volumes:
Community Noise Descriptor: L_{dn}: CNEL: X

Assumed 24-Hour Traffic Distribution:	Day	Evening	Night
Total ADT Volumes	77.70%	12.70%	9.60%
Medium-Duty Trucks	87.43%	5.05%	7.52%
Heavy-Duty Trucks	89.10%	2.84%	8.06%

"-" = contour is located within the roadway right-of-way.
Distance is from the centerline of the roadway segment to the receptor location.

Analysis Condition / Roadway, Segment	Lanes	Median Width	ADT Volume	Design Speed (mph)	Alpha Factor	Vehicle Mix: Medium Trucks	Vehicle Mix: Heavy Trucks	**CNEL at 50 Feet**	Distance from Centerline of Roadway to Contour: 70 CNEL	65 CNEL	60 CNEL	55 CNEL
Adams												
East of Bushard, existing	6	5	33,000	45	0.5	2.0%	1.0%	**73.0**	80	172	371	798
East of Bushard, existing + project	6	5	33,007	45	0.5	2.0%	1.0%	**73.0**	80	172	371	798
East of Bushard, future (2030)	6	5	43,000	45	0.5	2.0%	1.0%	**74.2**	95	205	442	952
East of Bushard, future + project	6	5	43,007	45	0.5	2.0%	1.0%	**74.2**	95	205	442	952
Adams												
East of Brookhurst, existing	6	5	36,000	45	0.5	2.0%	1.0%	**73.4**	85	182	393	846
East of Brookhurst, existing + project	6	5	36,029	45	0.5	2.0%	1.0%	**73.4**	85	182	393	846
East of Brookhurst, future (2030)	6	5	46,000	45	0.5	2.0%	1.0%	**74.5**	100	215	462	996
East of Brookhurst, future + project	6	5	46,029	45	0.5	2.0%	1.0%	**74.5**	100	215	463	997
Indianapolis												
East of Bushard, existing	4	10	5,000	40	0.5	2.0%	1.0%	**62.7**	-	-	75	162
East of Bushard, existing + project	4	10	5,014	40	0.5	2.0%	1.0%	**62.7**	-	-	75	162
East of Bushard, future (2030)	4	10	12,000	40	0.5	2.0%	1.0%	**66.5**	-	63	135	291
East of Bushard, future + project	4	10	12,014	40	0.5	2.0%	1.0%	**66.5**	-	63	135	291
Brookhurst Street												
South of Yorktown, existing	6	5	33,000	45	0.5	2.0%	1.0%	**73.0**	80	172	371	798
South of Yorktown, existing + project	6	5	33,072	45	0.5	2.0%	1.0%	**73.1**	80	172	371	799
South of Yorktown, future (2030)	6	5	37,000	45	0.5	2.0%	1.0%	**73.5**	86	186	400	862
South of Yorktown, future + project	6	5	37,072	45	0.5	2.0%	1.0%	**73.6**	86	186	400	863
Brookhurst Street												
South of Adams Avenue, existing	6	5	27,000	45	0.5	2.0%	1.0%	**72.2**	70	150	324	698
South of Adams Avenue, existing + project	6	5	27,022	45	0.5	2.0%	1.0%	**72.2**	70	151	324	699
South of Adams Avenue, future (2030)	6	5	36,000	45	0.5	2.0%	1.0%	**73.4**	85	182	393	846
South of Adams Avenue, future + project	6	5	36,022	45	0.5	2.0%	1.0%	**73.4**	85	182	393	846
Brookhurst Street												
South of Indianapolis, existing	6	5	26,000	45	0.5	2.0%	1.0%	**72.0**	68	147	316	681
South of Indianapolis, existing + project	6	5	26,022	45	0.5	2.0%	1.0%	**72.0**	68	147	316	681
South of Indianapolis, future (2030)	6	5	29,000	45	0.5	2.0%	1.0%	**72.5**	73	158	340	732
South of Indianapolis, future + project	6	5	29,022	45	0.5	2.0%	1.0%	**72.5**	73	158	340	733

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 11/10/2014
Case Description: LeBard Project

**** Receptor #1 ****

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
Existing Residences	Residential	65.0	65.0	65.0

Equipment

Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Grader	No	40	85.0		50.0	0.0
Dozer	No	40		81.7	50.0	0.0
Front End Loader	No	40		79.1	50.0	0.0
Scraper	No	40		83.6	50.0	0.0
Scraper	No	40		83.6	50.0	0.0
Scraper	No	40		83.6	50.0	0.0
Scraper	No	40		83.6	50.0	0.0
Flat Bed Truck	No	40		74.3	50.0	0.0

Results

Equipment	Calculated (dBA) Lmax	Leq	Noise Limits (dBA) Day Lmax	Day Leq	Evening Lmax	Evening Leq	Night Lmax	Night Leq	Noise Limit Exceedance (dBA) Day Lmax	Day Leq	Evening Lmax	Evening Leq	Night Lmax	Night Leq
Grader	85.0	81.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer	81.7	77.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Front End Loader	79.1	75.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Scraper	83.6	79.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Scraper	83.6	79.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Scraper	83.6	79.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Scraper	83.6	79.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Flat Bed Truck	74.3	70.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	85.0	87.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A