Traffic Noise Analysis Technical Report

Interstate 10 LA 415 to Essen Lane (I-10/I-12) East and West Baton Rouge Parishes, Louisiana

State Project No. H.004100

Submitted to:

Louisiana Department of Transportation and Development

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1 INTRODUCTION

This report documents the results of a noise analysis as part of the environmental process for the I-10 widening project in East Baton Rouge and West Baton Rouge Parishes, Louisiana. Figure 1 shows the project area, which extends approximately nine miles from LA 415 in West Baton Rouge Parish to Essen Lane in East Baton Rouge Parish.

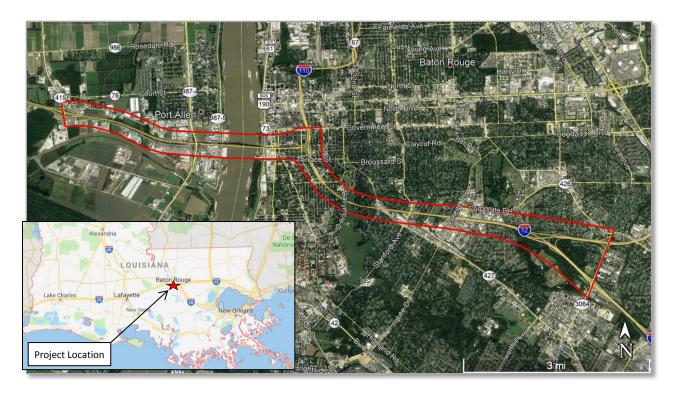


Figure 1. Project Area

The proposed improvements include widening both eastbound and westbound I-10 by one travel lane from LA 415 to the I-10/I-12 split. The project also includes modifications to the I-10 interchanges at LA 1, Washington Street, Dalrymple Drive, Perkins Road, and Acadian Thruway. A flyover ramp is proposed from westbound I-10 to College Drive as well as the replacement of the Nairn Drive overpass bridge. A dedicated right exit is also proposed off the College Drive westbound off-ramp to allow traffic to flow directly to Corporate Boulevard via Trust Drive. Generally, the interchange modifications involve:

- LA 1 ramp modifications to accommodate shoulder widening and an auxiliary lane to LA 415
- Washington Street/Dalrymple Drive (Washington/Dalrymple)

 one consolidated interchange is proposed for Washington/Dalrymple
- Perkins removal of the Perkins ramps
- Acadian ramp lengthening and ramp widening of the existing diamond along with at-grade improvements along Acadian Thruway between Perkins Road and I-10

2 TRAFFIC NOISE ANALYSIS

This study has been prepared in accordance with the Federal Highway Administration (FHWA) noise regulation, *Procedures for Abatement of Highway Traffic and Construction Noise, 23 CFR 772* (FHWA, 2010), and the Louisiana Department of Transportation and Development (DOTD) *Highway Traffic Noise Policy* (DOTD, 2011). The noise analysis included the following tasks:

- 1. Identification of noise study areas (NSA) and associated receptors (discrete or representative locations in an NSA for the land uses listed in 23 CFR 772) within 500 feet of the project
- 2. Determination of existing noise levels at selected receptors to characterize the existing noise environment in the project area
- 3. Prediction of future noise levels with and without the project
- 4. Determination of impacted receptors
- 5. Evaluation of noise abatement for impacted areas
- 6. Discussion of construction noise
- 7. Information for local officials.

Each of these analysis steps is discussed below, following a discussion of traffic noise terminology and DOTD's criteria for determining noise impacts.

2.1 Traffic Noise Terminology

Traffic noise levels are expressed in terms of the hourly, A-weighted equivalent sound level in decibels (dBA). A sound level represents the level of the rapid air pressure fluctuations caused by sources such as traffic that are heard as noise. A decibel is a unit that relates the sound pressure of a noise to the faintest sound the young human ear can hear. The A-weighting refers to the amplification or attenuation of the different frequencies of the sound (subjectively, the pitch) to correspond to the way the human ear "hears" these frequencies.

Generally, when the sound level exceeds the mid-60 dBA range, outdoor conversation in normal tones at a distance of three feet becomes difficult. A 9-10 dB increase in sound level is typically judged by the listener to be *twice* as loud as the original sound while a 9-10 dB reduction is judged to be *half* as loud. Doubling the number of sources (i.e., vehicles) will increase the hourly equivalent sound level by approximately 3 dBA, which is usually the smallest change in hourly equivalent A-weighted traffic noise levels that people can detect without specifically listening for the change. Figure 2 shows common indoor and outdoor sound levels.

Because most environmental noise fluctuates from moment to moment, it is standard practice to condense data into a single level called the equivalent sound level (L_{eq}). The L_{eq} is a steady sound level that would contain the same amount of sound energy as the actual time-varying sound evaluated over the same time period. The L_{eq} averages the louder and quieter moments but gives much more weight to the louder moments in the averaging. For traffic noise assessment purposes, L_{eq} is typically evaluated over the worst one-hour period and is written as $L_{eq}(h)$.

The term insertion loss (IL) is generally used to describe the reduction in $L_{\rm eq}(h)$ at a location after a noise barrier is constructed. For example, if the $L_{\rm eq}(h)$ at a residence before a barrier is constructed is 75 dBA and the $L_{\rm eq}(h)$ after a barrier constructed is 65 dBA, then the insertion loss would be 10 dB.

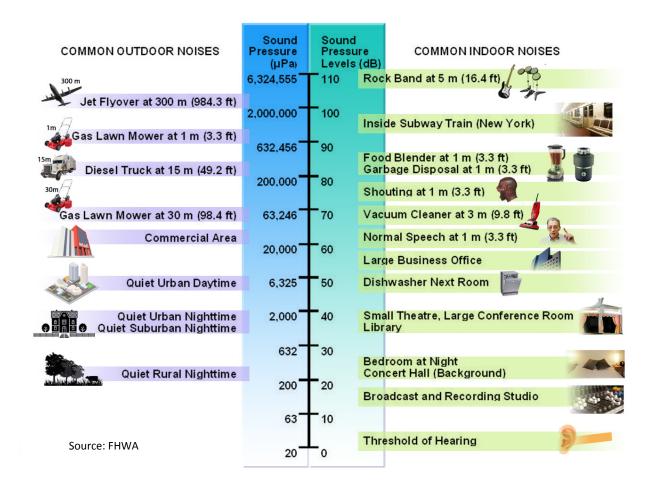


Figure 2. Common Sound Levels

2.2 Criteria for Determining Impacts

Noise impact is determined by comparing future "design year" project worst-hour noise levels at areas of frequent human use to: (1) a set of Noise Abatement Criteria (NAC) for different land use categories, and (2) existing noise levels. The FHWA noise regulation and DOTD noise policy require that noise abatement be considered when traffic noise impacts have been identified. Table 1 shows the land uses that are classified as Activity Categories A - G and the corresponding NAC.

Specifically, a receptor is impacted in either of two ways:

- 1. The predicted, worst-hour noise level in the design year approaches or exceeds the NAC. DOTD defines "approach" as 1 dB less than the NAC. For example, the NAC for Activity Category B and C land uses is 67 dBA. An impact would occur if the predicted noise level is 66 dBA or higher at an exterior area of frequent exterior human use for either category.
- 2. The predicted, worst-hour noise level in the design year exceeds the existing noise level by 10 dB or more, even if the NAC is not approached or exceeded.

Activity $L_{Aeq}(1h)$ **Evaluation Activity Description** Category dBA Location Lands on which serenity and quiet are of extraordinary significance and serve an important public need and where 57 Α Exterior the preservation of those qualities is essential if the area is to continue to serve its intended purpose. B^1 67 Exterior Residential Active amphitheaters, auditoriums, sport areas, campgrounds, cemeteries, day care centers, hospitals, libraries, medical facilities, parks, picnic areas, places of C^{1} 67 Exterior worship, playgrounds, public meeting rooms, public or nonprofit institutional structures, radio studios, recording studios, recreation areas, Section 4(f) sites, schools, television studios, trails, and trail crossings. Auditoriums, day care centers, hospitals, libraries, medical facilities, places of worship, public meeting rooms, public or D 52 Interior nonprofit institutional structures, radio studios, recording studios, schools, and television studios. Hotels, motels, offices, restaurants/bars, and other developed E 1 72 Exterior lands, properties or activities not included in A-D or F. Agriculture, airports, bus yards, emergency services, industrial, logging, maintenance facilities, manufacturing, F mining, rail yards, retail facilities, shipyards, utilities (water resources, water treatment, electrical), and warehousing. G Undeveloped lands that are not permitted.

Table 1. Noise Abatement Criteria

2.3 Noise Study Areas

A review of available electronic mapping as well as field reconnaissance identified 16 Noise Study Areas (NSAs) containing noise-sensitive land uses. These NSAs are described in Table 2 and shown in Figure 3. As indicated in Table 2, each NSA includes varying combinations of Activity Category B, C, D, and E land uses. The primary land use along the project corridor is Activity Category B residential (single-family residences and multi-family dwellings). Five (5) NSAs between South Acadian Thruway and the east project limit at Essen Lane currently have noise barriers and one NSA (WB6) does not. The ten (10) NSAs between the west project limit at LA 415 and South Acadian Thruway Avenue do not have noise barriers.

The I-10 corridor is heavily developed; however, some tracts of undeveloped Activity Category G lands exist along the project. These undeveloped lands are not noise-sensitive and have not been included in the noise analysis. However, noise impacts could occur in the future if noise-sensitive land uses are constructed near I-10 or I-12. A discussion of future noise levels and the need for noise-compatible land use planning is provided later in this report.

¹Includes undeveloped lands permitted for this activity category.

Table 2. Noise Study Areas

Noise Study Area	Existing Noise Barrier?		Description					
		South of I-10, between	the Mississippi River and East Washington Street					
		Activity Category B (exterior)	Numerous single-family residences					
EB1	No	Activity Category C (exterior)	Baranco Clark YMCA playground					
		Activity Category D (interior)	Fairview Baptist Church, Progressive Baptist Church, New Jerusalem Baptist Church, Neeley United Methodist Church					
		South of I-10, between	East Washington Street and Dalrymple Drive					
		Activity Category B (exterior)	Numerous single-family residences					
EB2	No	Activity Category C (exterior)	East Polk Street Park (basketball court, playground, baseball)					
		Activity Category D (interior)	Calvary Third Baptist Church					
		South of I-10, between	East Lakeshore Drive and Christian Street					
EB3a	No	Activity Category B (exterior)	Numerous single-family residences, including townhomes on Fiero Street					
	No	South of I-10, between Christian Street and South Acadian Thruway						
EB3b		Activity Category B (exterior)	Numerous single-family residences, including townhomes on Christian Street, and Hollydale Ave, and some apartments above a commercial restaurant					
		Activity Category E (exterior)	Saltgrass Steakhouse patio, Schlittz and Giggles patio					
		South of I-10, between	South Acadian Thruway and College Drive					
		Activity Category B (exterior)	Numerous single-family residences					
EB4	Yes	Activity Category C (exterior)	Nairn Park (playground, ball fields, basketball court, picnic area)					
		Activity Category E (exterior)	Courtyard by Marriott (Acadian Centre) pool					
		•	College Drive and the I-10/I-12 split					
EB5	Yes	Activity Category B (exterior)	Numerous single-family residences					
		Activity Category E (exterior)	Hampton Inn pool, Crowne Plaza pool, Holiday Inn pool, and the Doubletree Hotel patio					
		South of I-12, between I-the 10/I-12 split and Essen Lane						
EB6	Yes	Activity Category B (exterior)	Numerous single-family residences					

Noise Study Area	Existing Noise Barrier?		Description					
		North of I-10 and west of I-110, between the Mississippi River and Government Street						
		Activity Category B (exterior)	Numerous single-family residences					
WB1	No	Activity Category C (exterior)	Foreign Language Academic Immersion Magnet (FLAIM) Elementary School playground, Odell Williams Museum of African American History picnic tables					
		Activity Category D (interior)	Liberty Chapel Baptist Church, New St. Luke Baptist Church, St. Agnes Catholic Church					
		East of I-110 and I-10, Street	between Government Street and East Washington					
	No	Activity Category B (exterior)	Numerous single-family residences, some duplexes and apartments					
WB2		Activity Category C (exterior)	St Francis Xavier Church exterior area and courtyard, St Francis Xavier Early Child Development playground, St Francis Xavier Child Care Center playground, Brooks Park swimming pool and playground, Expressway Park playground, picnic area, basketball court and football field					
		Activity Category D (interior)	McKowen Missionary Baptist Church, New Prospect Missionary Baptist Church, McKinley Middle Magnet School					
		North of I-10 between E	ast Washington Street and Dalrymple Drive					
		Activity Category B (exterior)	Numerous single-family residences					
WB3	No	Activity Category C (exterior)	Knock Knock Children's Museum picnic area					
		Activity Category D (interior)	Ebenezer Baptist Church					
		North of I-10 between E	ast Lakeshore Drive and Perkins Road					
WB4a	No	Activity Category B (exterior)	Numerous single-family residences					
		Activity Category E (exterior)	Duvics patio					

Noise Study Area	Existing Noise Barrier?	Description									
		North of I-10 between Perkins Road and South Acadian Thruway									
		Activity Category B (exterior)	Numerous single-family residences								
WB4b	No	Activity Category C (exterior)	Madera Verde Apartments courtyard								
		Activity Category E exterior)	Digiulio Brothers patio, City Pork patio								
		North of I-10 between S	South Acadian Thruway and College Drive								
		Activity Category B (exterior)	Numerous single-family residences								
WB5	Yes	Activity Category D (interior)	Cathedral of Faith Ministry Church								
		Activity Category E (exterior)	Radisson Hotel pool								
		North of I-10 between 0	College Drive and the I-10/I-12 split								
WB6	No	Activity Category E (exterior)	Tru by Hilton Hotel pool, Baton Rouge Marriott pool, Richmond Inn & Suites pool, Homewood Suites pool								
		North of I-12 between t	he I-10/I-12 split and Essen Lane								
WB7	Yes	Activity Category B (exterior)	Numerous single-family residences, townhomes and apartments								
		Activity Category C (exterior)	Jefferson Place Apartments & Condominiums pool								
		North of I-10 between L	A 415 and 2179 Commercial Drive								
WB8	No	Activity Category B (exterior)	Allen Courts Apartments, Westport Village Apartments, Riverwest Apartments								
		Activity Category E (exterior)	Hampton Inn & Suites pool, Comfort Suites pool, La Quinta Inn & Suites pool								



Figure 3. Noise Study Areas



Figure 3: Noise Study Areas (cont'd)

2.4 Noise Measurements

Noise measurements were conducted at several DOTD-approved noise-sensitive land uses in the project area on March 20-22, 2018. Table 3 summarizes the noise levels at each measurement location. Appendix A contains figures showing the measurement locations as well as the noise measurement results.

Table 3. Existing Noise Levels at Measurement Locations

Noise Study Area	Site	Date	Time	Distance to I-10 (ft)	Measured L _{Aeq} (dBA)	Predicted L _{Aeq} (dBA)	Predicted - Measured Difference (dB)
		3/21/2018	10:30 - 10:50		70.5	72.4	1.9
	1926 Maryland St	3/21/2018	14:40 - 15:05	145	66.7	66.8	0.1
		3/22/2018	11:15 - 11:35		70.3	70.4	0.1
EB2		3/21/2018	10:31 - 10:51	110	73.4	75.3	1.9
EBZ	1159 E Harrison St	3/21/2018	14:40 - 15:05		69.1	68.7	-0.4
		3/22/2018	11:15 - 11:35		74.2	73.1	-1.1
	East Polk St basketball court	3/21/2018	10:30 - 10:50	130	70.6	72.7	2.1
		3/22/2018	11:15 - 11:35	150	71.5	70.5	-1.0
	2226 Estates Rd	3/21/2018	12:25 - 12:51	90	73.2	75.9	2.7
		3/22/2018	10:30 - 10:49		72.9	75.7	2.8
EB3a	2808 Fiero St	3/21/2018	12:25 - 12:51	115	74.5	75.0	0.5
LDSu	2000 11010 30	3/22/2018	10:30 - 10:50	113	74.9	75.4	0.5
	2012 Estates Rd	3/21/2018	12:28 - 12:56	85	74.1	76.0	1.9
	2012 Estates Na	3/22/2018	10:30 - 10:50	03	74.1	75.5	1.4
EB4	2835 Balis Dr	3/20/2018	13:15 - 13:30	100	67.3	n/a	n/a
LDT	2741 Yazoo St	3/20/2018	13:56 - 14:11	65	72.3	n/a	n/a
EB5	5641 Trenton Ave	3/20/2018	12:41 - 12:56	150	65.9	n/a	n/a
WB3	1853 Virginia St	3/21/2018	09:30 - 09:50	115	74.2	75.4	1.2

Noise Study Area	Site	Date	Time	Distance to I-10 (ft)	Measured L _{Aeq} (dBA)	Predicted L _{Aeq} (dBA)	Predicted - Measured Difference (dB)
		3/21/2018	14:05 - 14:25		72.7	70.5	-2.2
	1417 E Harrison	3/21/2018	09:30 - 09:50	150	71.6	74.0	2.4
	St	3/21/2018	14:05 - 14:25	130	69.1	69.6	0.5
	2285 Elissalde St	3/21/2018	11:24 - 11:44	160	69.6	72.0	2.4
WB4a	2280 Baywood Ave	3/21/2018	11:25 - 11:45	85	74.3	77.2	2.9
VV D4a		3/22/2018	09:50 - 10:12		73.1	74.7	1.6
	2244 Ebony St	3/22/2018	09:50 - 10:10	75	72.4	74.1	1.7
WB5	2685 Balis Dr	3/21/2018	05:40 - 05:55	125	67.5	n/a	n/a
WBS	2643 Yazoo St	3/21/2018	06:02 - 06:17	125	72.3	n/a	n/a
WB7	7210 Leyland Ct	3/22/2018	06:01 - 06:15	125	64.6	n/a	n/a
VV D /	7607 Claret Dr	3/22/2018	06:24 - 06:39	110	65.3	n/a	n/a
WB8	Westport	3/21/2018	06:34 - 06:49	780	63.9	n/a	n/a
VVDO	Village Apts	3/22/2018	14:22 - 14:45	760	59.3	n/a	n/a

Short-term noise measurements were conducted by making a series of consecutive one-minute measurements for at least 15 minutes at each site during a peak and an off-peak period. The higher measured noise level is considered to be representative of the worst noise hour. Non-representative noises (i.e., local traffic, dog barking, sirens, etc.) during these measurements were noted, and the corresponding one-minute measurement periods were eliminated from the calculation of the measured noise level.

As indicated in Table 3, existing noise levels at the exterior measurement locations were between 59 and 75 dBA. The lower noise levels were recorded at locations farther from I-10 or at receptors behind existing noise barriers. Noise levels in the upper 60 dBA to low 70 dBA range were recorded at the first-row residences near I-10 and I-12 that are not behind an existing noise barrier.

The noise measurements in NSAs EB2, EB3a, WB3, and WB4a were used for validation purposes as discussed in Section 2.5. NSAs EB4, EB5, WB5, and WB7 are protected by existing noise barriers. Noise measurements in these areas were conducted to better understand existing noise levels in the project area. The measurement location in NSA WB8 is nearly 800 feet from I-10 and not a suitable validation location. The measured levels in EB4, EB5, and WB5 were higher than those measured in WB7 likely due

to parallel barrier reflection effects creating higher levels behind the noise barriers, whereas parallel barriers don't exist in NSA in WB7.

2.5 Model Validation

DOTD noise policy requires validation of the FHWA Traffic Noise Model (TNM 2.5) computer program that is used to calculate worst-hour equivalent noise levels. Validation involves conducting noise measurements at locations near the existing roadway while conducting simultaneous vehicle classification counts of the traffic and estimating travel speed. The traffic counts are factored up to hourly volumes and, along with the speeds, are entered into a TNM 2.5 model that has been created for existing conditions. The predicted noise levels are then compared to the measured noise levels. If the predicted noise level is within 3 dBA of the measured level, the model is considered validated.

Traffic data was collected for I-10 and any significant ramps or local roads during the measurements at the validation locations in NSAs EB2, EB3a, WB3, and WB4a. Appendix A includes the traffic data for the validation measurements. The last two columns of Table 3 presents the validation results. As shown, the TNM predicted noise levels for were within 3 dB of the measured levels at all of the validation locations; therefore, the modeling is considered validated.

2.6 Existing and Future Noise Levels and Impacts

The FHWA TNM 2.5 computer program was used to calculate worst-hour noise levels for the receptors for existing conditions and for the future Build and No-Build Alternatives. Receptors were modeled with TNM "receiver" points at areas of frequent human at noise-sensitive land uses. For single-family residences, that area could be the front or back yard, depending on orientation. Large buildings were modeled as noise barriers to properly account for the shielding provided by those structures. Significant terrain features were also modeled. The default ground surface of lawn grass was used, with large paved areas or bodies of water modeled using ground zones.

Each lane of I-10 and I-12 was modeled as a separate TNM "roadway" and the posted speeds were used with the Level of Service (LOS D) traffic. Urban Systems, Inc. developed LOS D traffic volumes for I-10 and I-12 for year 2020 and Future Year 2040 for the Build and No-Build Alternatives include the hourly volumes. The year 2020 traffic data was used to represent existing conditions. Appendix B includes the traffic data used in the models.

Many noise receptors along the project are affected by structure-borne noise emanating from the underside of the I-10 bridge structures. TNM does not predict structure-borne noise. To estimate the contribution of the structure-borne noise from the bridge decks, measurements were conducted at two sites in close proximity to a bridge deck, at a series of distances back from the structure. That data was used to develop adjustments that were applied to the predicted traffic noise levels to account for structure-borne noise. The adjustments were applied to predicted noise levels for receivers within 150 feet of an I-10 bridge structure. The adjustments for the new structures could be different than for the existing structures; however, those details are not currently available.

Table 4 summarizes the predicted noise levels and impacts for each NSA. The results are discussed in the following sections. Appendix C provides tables of predicted results and figures showing the modeled receiver points, and noise impact designations.

Table 4. Noise Impact Summary

				Build	Build 2040 Noise Impacts					
		Existing/No- Build 2040	No- Build	2040 Noise	Substantial Increase		NAC			Abatement
NSA	Description	Noise Levels (dBA)	2040 Impacts	Levels (dBA)	Impacts?	#	Impacts?	#	Existing Barrier?	Evaluation Needed?
EB1	South of I-10, between the Mississippi River and East Washington Street	55-76	144	57-76	No	0	Yes	130	No	Yes
EB2	South of I-10, between East Washington Street and Dalrymple Drive	56-75	75	58-76	No	0	Yes	82	No	Yes
EB3a	South of I-10, between East Lakeshore Drive and Christian Street	61-79	30	61-79	No	0	Yes	29	No	Yes
EB3b	South of I-10, between Christian Street and South Acadian Thruway	58-79	50	57-78	No	0	Yes	48	No	Yes
EB4	South of I-10, between South Acadian Thruway and College Drive	53-65	0	53-64	No	0	No	O ¹	Yes	No ¹
EB5	South of I-10, between College Drive and the I-10/I-12 split	53-65	0	53-66	No	0	No	0	Yes	No
EB6	South of I-12, between I-the 10/I-12 split and Essen Lane	52-61	0	52-61	No	0	No	0	Yes	No
WB1	North of I-10 and west of I-110, between the Mississippi River and Government Street	52-78	56	51-78	No	0	Yes	43	No	Yes
WB2	East of I-110 and I-10, between Government Street and East Washington Street	51-79	99	50-78	No	0	Yes	64	No	Yes

Table 4. Noise Impact Summary

				Build	Build 2040 Noise Impact			ts		
		Existing/No- Build 2040	No- Build	2040 Noise	Substantial Increase		NAC	2		Abatement
NSA	Description	Noise Levels (dBA)	2040 Impacts	Levels (dBA)	Impacts?	#	Impacts?	#	Existing Barrier?	Evaluation Needed?
11071	North of I-10 between East	(0.57.1)	Присс	(4.57.1)	pastor		Прассот		Darrier	11000001
WB3	Washington Street and	62-76	36	62-76	No	0	Yes	35	No	Yes
	Dalrymple Drive									
	North of I-10 between East									
WB4a	Lakeshore Drive and Perkins	60-78	29	60-78	No	0	Yes	29	No	Yes
	Road									
	North of I-10 between Perkins									
WB4b	Road and South Acadian	58-75	61	58-74	No	0	Yes	36	No	Yes
	Thruway									
	North of I-10 between South									
WB5	Acadian Thruway and College	53-78	11	53-78	No	0	Yes	10 ²	Yes	Yes
	Drive									
WB6	North of I-10 between College	54-67	0	55-69	No	0	No	0	No	No
VVDO	Drive and the I-10/I-12 split	34 07	U	33 03	140	0	140		140	110
WB7	North of I-12 between the I-	40-68	2	41-67	No	0	Yes	1	Yes	Yes
***	10/I-12 split and Essen Lane	70 00		71 07	140	-	103	-	103	103
WB8	North of I-10 between LA 415	57-62	0	57-62	No	0	No	0	No	No
****	and 2179 Commercial Drive	3, 32	J	3, UZ	110	Ů	1,10	Ŭ	140	1,10
	Total		593					508		

¹ No impacts predicted using TNM, however, this NSA is conditionally designated as impacted because of potential parallel barrier effects.

² Impacts predicted using TNM. Additional conditional impacts possible because of potential parallel barrier effects.

2.6.1 Existing Year 2020

The TNM model developed for the validation process was used to predict worst-hour noise levels for Existing Year 2020 conditions at the noise-sensitive land uses in each NSA. The posted speeds were used for I-10 and I-12.

Predicted exterior worst noise hour noise level for the Existing Year 2020 ranged from 40 to 79 dBA. The highest noise levels are predicted at the receptors closest to I-10 with exposure to the structure-borne noise. The lower noise levels are predicted at the receptors furthest from I-10 and I-12. Predicted noise levels for receptors within NSAs with an existing noise wall are generally lower than those for receivers within NSAs without an existing noise wall.

A total of 593 receptors would be impacted under existing conditions including 572 Activity Category B residences, 16 Activity Category C uses, one Activity Category D use, and four Activity Category E uses.

2.6.2 No-Build Year 2040

When a road is congested and over capacity during peak travel periods, the existing worst-hour noise levels will occur during another time of day when traffic is traveling at or above the posted speed limit. I-10 and I-12 are congested roadways for many hours of the day. Although traffic on I-10 and I-12 will continue to grow without the project, the combination of traffic volume and speed that generates the worst-hour noise levels will not. Therefore, the same LOS D traffic volumes would produce the same worst-hour noise levels under both existing and No-Build conditions although the worst noise hour may shift to another time of day. The length of time that worst-noise hour traffic conditions exist is also likely to increase. As a result, worst-hour noise levels for No-Build Year 2040 will be the same as for existing conditions and the same receptors will be impacted.

2.6.3 Build Year 2040

The noise levels for the Build Year 2040 were determined by modeling the proposed I-10 geometry and traffic using TNM, which predicted the noise level for each modeled receiver. Anticipated future posted speeds were modeled. As discussed previously, five NSAs are protected by existing noise barriers. The project will not affect the existing noise barrier for NSA EB6. However, portions of the existing noise barriers for NSAs EB4, EB5, WB5, and WB7 will need to be relocated to accommodate the widening. DOTD will relocate these barriers to a new location within the right-of-way and maintain the existing barrier height. The noise models for Build Year 2040 include the existing barrier for NSA EB6 and the relocated barriers for NSAs EB4, EB5, WB5 and WB7; therefore, the calculated noise levels include the noise reduction provided by the barriers.

The predicted noise levels for the Build Alternative ranged from 41 to 79 dBA. The highest noise levels are predicted at the closest receptors to I-10 with exposure to the structure-borne noise.

Differences between the predicted existing noise levels and the noise levels for the Build Alternative range from a decrease of 5 dB to an increase of 3 dB. Decreases in noise levels are typically due to additional shielding provided in areas where ramp or mainline profile elevations will change or where additional shielding of traffic will be provided by ramp structures. However, the predicted design year noise levels are approximately the same or slightly higher than the existing worst-hour noise levels at most locations.

Finally, the predicted noise levels at the measurement locations for both existing and future conditions and are generally higher than the measured existing noise levels although the predicted noise levels are

lower than measured at a few locations. These differences may be attributable to higher truck volumes or speeds during the measurements compared to the average modeled conditions, atmospheric effects during the measurements that are not accounted for in the model, and the modeling "average" pavement per the FHWA noise regulation rather than the existing pavement type.

The following sections summarize the predicted noise levels and impacts for each NSA for the Build Alternative.

2.6.3.1 NSA EB1

Predicted noise levels for NSA EB1 (on the south side of I-10 from the Mississippi River to East Washington Street) range from 57 to 76 dBA. The highest predicted noise levels are at the receptors closest to I-10 with exposure to structure-borne noise. Predicted noise levels for Activity Category B residences range from 57 to 76 dBA. The lone Activity Category C use, the playgrounds at the Baranco Clark YMCA, have a predicted noise level of 71 dBA. The Fairview Baptist Church, Progressive Baptist Church, New Jerusalem Baptist Church, and Neeley United Methodist Church do not have exterior uses and qualify as Activity Category D. The predicted interior noise levels for the churches range from 39 to 50 dBA.

Noise levels will increase up to 2 dB over existing levels for some receptors. Decreases in noise levels of 1 to 5 dB are predicted for some receptors due to the additional shielding that will be provided by the raised roadway profile or where new ramp structures will be constructed and block the line-of-sight to mainline traffic (Terrace Street south to Louise Street).

The impacted properties in NSA EB1 include 128 Activity Category B residences and the Baranco Clark YMCA playgrounds (Activity Category C). The project is not predicted to impact the churches.

2.6.3.2 NSA EB2

Predicted noise levels for NSA EB2 (on the south side of I-10 from East Washington Street to Dalrymple Drive) range from 58 to 76 dBA. The highest predicted noise levels are for the first-row receptors closest to I-10. Predicted noise levels for Activity Category B residences range from 58 to 76 dBA. Predicted noise levels for the Activity Category C uses are 71 to 74 dBA and include the basketball court, ball field, and playground at the East Polk Street Park. The Calvary Third Baptist Church is an Activity Category D use (since there is no exterior use) and has a predicted interior noise level of 41 dBA.

Noise levels will increase up to 3 dB over existing levels for some receptors. Decreases in noise levels of 1 to 4 dB are predicted for some receptors with most of those decreases expected in areas where the roadway profile will be raised, partially blocking line-of-sight from some receptors to traffic on I-10.

The impacted properties in NSA EB2 include 79 Activity Category B residences and three Activity Category C receptors (East Polk Street Park basketball court, baseball field, and playground).

2.6.3.3 NSA EB3a

Predicted noise levels for NSA EB3a (on the south side of I-10 from East Lakeshore Drive to Christian Street) range from 61 to 79 dBA. All receptors in this NSA are Activity Category B residences. The highest predicted noise levels are at the first-row receptors closest to I-10.

Noise levels are predicted to increase less than 1 dB for some receptors while noise levels for other receptors are predicted to decrease by 1 to 3 dB. The decreased noise levels are predicted in areas where the roadway profile will be raised, partially blocking line-of-sight from some receptors to traffic on I-10.

The impacted properties in NSA EB3 include 29 Activity Category B residences.

2.6.3.4 NSA EB3b

Predicted noise levels for NSA EB3b (on the south side of I-10 from Christian Street to South Acadian Thruway) range from 57 to 78 dBA. The highest predicted noise levels are for the first-row receptors closest to I-10 with exposure to structure-borne noise. Predicted noise levels for Activity Category B residences range from 57 to 78 dBA. Predicted noise levels for the Activity Category E uses are 69 dBA for the Saltgrass Steakhouse patio and 74 dBA for the Schlittz and Giggles patio.

Noise levels will increase up to 1 dB over existing levels for some receptors. Decreases in noise levels of 1 to 5 dB are predicted for some receptors with the larger decreases predicted for upper floor apartments on Perkins Road where the proposed roadway profile is higher than the existing roadway profile and will partially block the line-of-sight from some receptors to traffic on I-10.

The impacted properties in NSA EB3 include 48 Activity Category B residences and one Activity Category E receptor (Schlittz and Giggles patio).

2.6.3.5 NSA EB4

Predicted noise levels for NSA EB4 (on the south side of I-10 from South Acadian Thruway to College Drive) range from 53 to 64 dBA. NSA EB4 is protected by an existing noise barrier that begins along the I-10 eastbound on-ramp from South Acadian Thruway just east of the Courtyard by Marriott and continues east ending along the I-10 eastbound off-ramp to College Drive. The highest predicted noise levels are located at the receptors closest to the ends of the existing noise barrier.

Predicted noise levels for Activity Category B residences range from 57 to 64 dBA. The Activity Category C playgrounds, ball fields, picnic area and basketball court at Nairn Park have predicted noise levels of 57 to 60 dBA. The lone Activity Category E use is the Courtyard by Marriott pool with a predicted noise level of 53 dBA.

Noise levels will increase up to 1 dB over existing levels for some receptors. Decreases in noise levels of up to 2 dB are predicted for some receptors close to the noise barrier. The decreases are likely a result of the noise wall relocation closer to receptors which will provide additional noise reduction.

Receptors in NSA EB4 (between Yazoo Street and Brownlee Street) are likely exposed to reflections of traffic noise between the two parallel, reflective noise barriers. Noise levels for receptors may be 2 to 4 dB higher than the TNM predicted levels.

Although the TNM predicted noise levels do not approach or exceed the NAC, DOTD has designated this NSA as "conditionally impacted" because of the parallel barrier effect.

2.6.3.6 NSA EB5

Predicted noise levels for NSA EB5 (on the south side of I-10 from College Drive to the I-10/I-12 split) range from 53 to 66 dBA. NSA EB5 is protected by two existing noise barriers. The first begins along on the north side of Constitution Avenue approximately 470 feet west of Bunker Hill Drive and continues east on the north side of the residences and backyards of Trenton Avenue. The second is on the shoulder of I-10 starting approximately 100 feet west of the eastern end of the first noise barrier and continuing east for approximately 1,500 feet.

The predicted noise levels for Activity Category B residences in NSA EB5 range from 53 to 64 dBA. Predicted noise levels for the Activity Category E uses are 55 to 66 dBA and include the pools and patios of the Hampton Inn, Holiday Inn, Crowne Plaza, and Doubletree hotels.

Noise levels will increase up to 3 dB over existing levels for some receptors while small decreases in noise levels of 1 dB are predicted for other receptors. The decreases are likely a result of the noise wall relocation closer to receptors which will provide additional noise reduction.

Noise impacts are not predicted for NSA EB5.

2.6.3.7 NSA EB6

Predicted noise levels for NSA EB6 (on the south side of I-12 from the I-10/I-12 split to Essen Lane) range from 52 to 61 dBA. All receptors in this NSA are Activity Category B land uses. NSA EB6 is protected by an existing noise barrier near the right-of-way that begins approximately 440 feet west of Essen Lane and ends along the exit ramp to Essen Lane.

Noise levels are predicted to increase up to 2 dB over existing levels for receptors in this NSA.

Noise impacts are not predicted for NSA EB6.

2.6.3.8 NSA WB1

Predicted noise levels for NSA WB1 (on the north side of I-10 and West of I-110 from the Mississippi River to Government Street) range from 51 to 78 dBA. The highest noise levels are predicted at the closest receptors to I-10 with exposure to structure-borne noise. Predicted noise levels for Activity Category B residences range from 51 to 78 dBA. The Activity Category C uses in this NSA include the Odell Williams Museum (74 dBA) and the FLAIM Elementary School playgrounds (67 and 65 dBA). The Liberty Chapel Baptist Church, the New St. Luke Baptist Church, and St. Agnes Catholic Church do not have exterior uses and are Activity Category D uses. The predicted interior noise levels for these three churches are 49 dBA, 49 dBA, and 38 dBA, respectively.

Noise levels will increase up to 2 dB over existing levels for some receptors. Predicted decreases in noise levels of up to 3 dB are predicted for some receptors, however, those decreases are likely a result of traffic volume assumptions and modeling differences between the existing and build conditions. Since there are no roadway geometry changes along I-10 and I-110 in this NSA, it is most likely that the future noise levels will be slightly higher than existing noise levels.

The impacted properties in NSA WB1 include 41 Activity Category B residences and two Activity Category C receptors (Odell Williams Museum of African American Art and the FLAIM Elementary Playground).

2.6.3.9 NSA WB2

Predicted noise levels for NSA WB2 (on the east side of I-110 and north side of I-10 from Government Street to East Washington Street) range from 50 to 78 dBA. The highest noise levels are predicted for the first-row receptors closest to I-10 with exposure to structure-borne noise. Predicted noise levels for Activity Category B residences range from 50 to 78 dBA. Predicted noise levels for the Activity Category C receptors are: St. Francis Xavier Church courtyard (75 dBA); St. Francis Xavier Early Childhood Development Center playground (67 dBA); St. Francis Xavier Child Care Center playground (68 dBA); the Expressway Park football field (75 dBA), basketball court (75 dBA), picnic shelter (74 dBA) and playground (74 dBA); and the Brooks Park pool (65 dBA) and playground (65 dBA). McKinley Middle School, McKowen

Missionary Baptist Church and the New Prospect Missionary Baptist Church are Activity Category D uses and have predicted interior noise levels of 41 to 45 dBA.

Noise level increases of less than 1 dB over existing levels are predicted for some receptors. Decreases in noise levels up to 4 dB are predicted for some receptors, however, those decreases are likely a result of traffic volume assumptions and modeling differences between existing and build conditions. Since there are no roadway geometry changes along I-10 and I-110 in this NSA, it is most likely that the future noise levels will be slightly higher than existing noise levels.

The impacted properties in NSA WB2 include 57 Activity Category B impacts residences and seven Activity Category C receptors (St. Francis Xavier Church courtyard, St. Francis Xavier Early Childhood Development Center playground, St. Francis Xavier Child Care Center playground, and the Expressway Park football field, basketball court, picnic shelter and playground).

2.6.3.10 NSA WB3

Predicted noise levels for NSA WB3 (on the north side of I-10 from East Washington Street to Dalrymple Drive) range from 62 to 76 dBA. Most receptors in this NSA are Activity Category B residences. The lone Activity Category D use, the Ebenezer Baptist Church, has a predicted interior noise level of 47 dBA.

Noise levels are predicted to increase up to 2 dB for some receptors while noise levels for other receptors are predicted to decrease by as much as 5 dB. The decreased noise levels are predicted for receptors that will have line-of-sight blockage to I-10 due to the ramps and frontage roads between E Washington Street and Dalrymple Drive.

The impacted properties in NSA WB3 include 35 Activity Category B residences.

2.6.3.11 NSA WB4a

Predicted noise levels for NSA WB4a (on the north side of I-10 from East Lakeshore Drive to Perkins Road) range from 60 to 78 dBA. The highest predicted noise levels are for the first-row receptors closest to I-10 with exposure to structure-borne noise. Predicted noise levels for Activity Category B residences range from 60 to 78 dBA. The predicted noise levels for the Activity Category E patio at Duvics is 72 dBA.

Noise levels will increase up to 1 dB over existing levels for some receptors. Decreases in noise levels up to 3 dB are predicted for some receptors with the larger decreases predicted in areas where the proposed roadway profile will be raised, partially blocking line-of-sight from some receptors to traffic on I-10.

The impacted properties in NSA WB4a include 28 Activity Category B residences and the patio at Duvic's (Activity Category E).

2.6.3.12 NSA WB4b

Predicted noise levels for NSA WB4b (on the north side of I-10 from Perkins Road to South Acadian Thruway) range from 58 to 74 dBA. The highest noise levels are predicted at the receptors closest to I-10 with exposure to structure-borne noise. Predicted noise levels for Activity Category B residences range from 58 to 74 dBA. Predicted noise levels for the Activity Category E uses are 67 and 74 dBA for the patios at Digulio Brothers and City Pork, respectively.

Noise levels will decrease up to 3 dB for some receptors. Most of the predicted decreases are in areas where receptors are close to the existing structure or where the proposed roadway profile will be raised.

The impacted properties in NSA WB4b include 35 Activity Category B residences and the City Pork patio (Activity Category E).

2.6.3.13 NSA WB5

Predicted noise levels for NSA WB5 (on the north side of I-10 from South Acadian Thruway to College Drive) range from 53 to 78 dBA. NSA WB5 is protected by an existing noise barrier that begins along the north side of I-10 just east of the Radisson Hotel and continues east to the I-10 westbound on-ramp from College Drive.

The predicted noise levels for Activity Category B residences range from 53 to 78 dBA. The higher noise levels for this NSA are for the receptors along Aldridge Drive and Barber Street that are exposed to structure-borne noise as well as traffic noise from College Drive. The predicted interior noise level for the Activity Category D use, the Cathedral of Faith Ministry, is 34 dBA. The lone Activity Category E use, the Radisson Hotel pool, has a predicted exterior noise level of 55 dBA.

Noise levels will increase up to 2 dB over existing levels for some receptors. Small decreases in noise levels of 1 dB are predicted for some receptors with the decreases likely a result of the relocation of the noise barrier closer to the receptors.

Noise levels at the receptors in NSA WB5 between Yazoo Street and Brownlee Street are likely increased due to reflections of traffic noise between the two parallel, reflective noise barriers. Traffic noise levels for these areas may be 2 to 4 dB higher than the TNM predicted levels.

The impacted properties in NSA WB5 include ten Activity Category B residences.

2.6.3.14 NSA WB6

Predicted noise levels for NSA WB6 (on the north side of I-10 from College Drive to the I-10/I-12 split) range from 55 to 69 dBA. The highest noise levels are predicted for the first-row receptors closest to I-10. NSA WB6 does not include any Activity Category B residential uses. Predicted noise levels for the Activity Category E uses are 55 to 69 dBA for the pools at the Tru by Hilton, Homewood Suites, Richmond Inn, and Baton Rouge Marriott hotels.

Noise levels will increase up to 2 dB over existing levels for the receptors in WB6.

No impacts are predicted in NSA WB6.

2.6.3.15 NSA WB7

Predicted noise levels for NSA WB7 (on the north side of I-10 and I-12 from the I-10/I-12 split to Essen Lane) range from 41 to 67 dBA. NSA WB7 is protected by three existing noise barriers. The first begins along on the north side of I-10 in front of the Citiplace Stadium 11 movie theater and continues east near the right-of-way until it ends on the east end of Bocage Lake Court. The second noise barrier overlaps the first for approximately 80 feet and runs east until the east end of Leyland Court. A third noise barrier begins along the I-12 westbound ramp to I-10 eastbound and ends on the east side of Office Park Boulevard.

The predicted noise levels for Activity Category B residences in NSA WB6 range from 41 to 67 dBA. Predicted noise levels for the Activity Category C uses, the pool and playground at Jefferson Place condominiums, are 58 to 60 dBA.

Noise levels will increase up to 5 dB over existing levels for some receptors. Small decreases in noise levels of 1 dB are predicted for some receptors. The decreases are likely a result of traffic volume differences between existing and future conditions.

The impacted property in NSA WB7 is an Activity Category B residence.

2.6.3.16 NSA WB8

Predicted noise levels for NSA WB8 (on the north side of I-10 from the LA415 to LA1) range from 57 to 62 dBA. The predicted noise level for the Activity Category B residences is 61 dBA. Predicted noise levels for the Activity Category E uses are 57 to 62 dBA and include the pools at the Hampton Inn, Comfort Suites and LaQuinta Inn hotels.

Noise levels will increase up to 2 dB over existing levels for some receptors.

No impacts are predicted in NSA WB8.

2.7 Noise Impact Summary

An impact assessment was completed for the Build and No-Build scenarios. As noted previously, a receptor is impacted in two ways:

- 1. The predicted, worst-hour, design year noise level approaches or exceeds the NAC. DOTD defines "approach" as 1 dB less than the NAC. These levels apply at areas of frequent human use.
- 2. The predicted, worst-hour, design year noise level exceeds the existing noise level by 10 dB or more.

As shown in Table 4 (with additional detail provided in Appendix C), the project is predicted to impact a total of 508 receptors (Activity Category B, C, D and E). No receptors are predicted to have a substantial increase of 10 dB over existing noise levels.

DOTD has designated NSAs EB4 and WB5 as "conditionally impacted" because of the potential increase in noise levels behind the existing noise walls due to the parallel barrier effect.

2.8 Noise Abatement Evaluation

In accordance with criteria in the DOTD noise policy, noise abatement must be evaluated for "feasibility" and, if feasible, for "reasonableness." Noise barriers must be both feasible and reasonable to be deemed "likely" for construction.

As discussed, five NSAs have existing noise barriers (EB4, EB5, EB6, WB5, and WB7). The project will not affect the existing noise barrier for NSA EB6. However, portions of the existing noise barriers for NSAs EB4, EB5, WB5 and WB7 will need to be relocated to accommodate the widening. These five barriers (existing or relocated) were evaluated using FHWA's guidance document *Consideration of Existing Noise Barrier in a Type I Noise Analysis* (FHWA, 2012) that outlines the analysis process for Type I projects with existing abatement measures (noise barriers or earth berms).

The guidance indicates that the state should conduct the noise analysis for locations with existing noise barriers exactly as for any other location and include the existing noise barrier in the analysis. If noise impacts are not predicted behind the barrier, the process is complete for that NSA. If impacts are predicted behind the existing barrier, then the state must evaluate the barrier to determine if the barrier meets the feasibility and reasonableness criteria in the state's noise policy. If the barrier meets the criteria, then no action is needed. If the barrier does not meet the criteria, then the state must evaluate whether a new barrier can be designed to satisfy the state's requirements.

Feasibility includes acoustical and engineering considerations. Acoustical feasibility means that a noise barrier will provide at least a 5 dB reduction in the noise level for at least 75% of the first-row, impacted receptors. If a barrier cannot meet this criterion, abatement is considered to not be acoustically feasible. Additionally, the noise barrier should be feasible from an engineering perspective. Engineering feasibility takes into account topography, drainage, safety, barrier height, utilities, and access and maintenance needs (which may include right-of-way considerations). If a barrier poses engineering issues, it may be judged as not feasible even if it meets the acoustical feasibility criterion, and it will not be recommended for construction.

If feasible, then the barriers are assessed for *reasonableness* in accordance with the criteria in the DOTD noise policy. Noise abatement must meet the following three criteria to be considered reasonable. If any of the criteria is not met, the noise abatement measure will not be constructed.

- 1. Noise Reduction Design Goal: At a minimum, at least one receptor must receive an 8 dB reduction for the noise abatement system to be reasonable.
- Cost-Effectiveness: If the estimated cost of constructing a noise barrier (including
 installation and additional necessary construction such as foundations or guardrails)
 divided by the number of benefited receptors (those who would receive a reduction of
 at least 5 dB) is \$35,000 or less per benefited receptor, a barrier is considered to be
 cost-effective.
- 3. Consideration of Viewpoints: The viewpoints of the affected property owners and residents are important. For those barriers found to be reasonable by the Cost-Effectiveness and Design Goal criteria above, viewpoints of the benefited receptors and affected property owners will be sought.

In general, noise abatement measures may include noise barriers, alteration of horizontal and vertical alignment, and traffic management measures (such as reducing speed limits or prohibition of heavy trucks). The latter two forms of abatement have already been considered during the planning phases for this project. Noise barriers were determined to be the only available potential abatement measure to reduce noise levels for impacted receptors for this project.

Generally, noise barriers are not effective at reducing noise levels at residences when driveway access requirements necessitate gaps in the noise barrier. Similarly, noise barriers are not cost effective on a per benefited residence basis for isolated residences or low-density groupings of residences.

2.8.1 Noise Study Areas without Existing Noise Barriers

Nine (9) NSAs without existing noise barriers were identified as having impacted land uses and were evaluated for noise barriers. Table 5 summarizes the results of the feasibility evaluation for each NSA. As shown, the investigated noise barriers for four NSAs (EB2, EB3a, WB3, and WB4a) are feasible according to the DOTD noise policy, meaning the noise barrier provides at least 5 dB of noise reduction for at least 75% of the first-row impacted receptors. Noise barriers were determined not to be feasible for NSAs EB1, EB3b, WB1, WB2, and WB4b due to structure-borne noise.

The barrier designs for the NSAs EB2, EB3a, WB3, and WB4a were then evaluated for reasonableness as summarized in Table 6. As shown, all four barrier designs meet the Noise Reduction Design Goal of providing at least 8 dB of noise reduction for at least one receptor. All four barrier designs also meet DOTD's cost-effectiveness criteria by falling below the \$35,000 cost per benefited residence threshold.

As shown in Appendix E, the EB2 barrier design begins just north of Fig Street along the mainline of I-10 and runs east along the mainline for approximately 1,320 feet at heights between 10 and 14 feet, then ends to provide a gap for the on-ramp from the proposed Braddock Street extension. A second section of barrier for EB2 begins along that on-ramp just east of East Harrison Street, runs along the on-ramp and then transitions to the edge of shoulder of mainline I-10. The barrier extends across the City Park Lake bridge at a height of 14 feet and ends on the east side of the bridge.

The EB3a barrier begins on the east side of the City Park Lakes bridge where the EB2 barrier ends and runs east along the edge of shoulder of I-10 for approximately 2,400 feet at a height of 14 feet, ending between Christian Street and Perkins Road.

The WB3 barrier begins just west of the City Park Lakes bridge and continues along the mainline of I-10 for approximately 450 feet where it ends to provide a break for the on-ramp from Dalrymple Drive. A second section of barrier begins along the off-ramp from I-10 to East Washington Street and runs along the edge of shoulder over the on-ramp from Dalrymple Drive and ends after approximately 1,000 feet south of Missouri Street. A third section of barrier begins along the edge of shoulder of the on-ramp from Darlymple Drive to I-10 south of Carolina Street and extends along the mainline of I-10 approximately 1,100 feet ending just north of East Washington Street. Heights for the WB3 barrier vary between 10 and 14 feet with an average height of 13 feet.

The WB4a barrier begins west of Christian Street and continues for approximately 1,985 feet to the west along the edge of shoulder of I-10. Barrier heights vary between 8 and 14 feet with an average height of 13 feet. The barrier ends at the eastern end of the City Park Lakes bridge and does not extend onto the bridge. Appendix D provides additional details for each investigated barrier design.

Table 5. Feasibility Evaluation for NSAs Without Existing Noise Barriers

Noise Study Area	Description	Total Impacts	First- Row Impacts	First-Row Impacts Benefited	% of First-Row Impacts Benefited	Feasible?
EB1	South of I-10, between the Mississippi River and East Washington Street	130	41	0	0%	No
EB2	South of I-10, between East Washington Street and Dalrymple Drive	82	31	26	84%	Yes
EB3a	South of I-10, between East Lakeshore Drive and Christian Street	29	20	20	100%	Yes
EB3b	South of I-10, between Christian Street and South Acadian Thruway	48	16	2	13%	No
WB1	North of I-10 and west of I-110, between the Mississippi River and Government Street	43	36	11	31%	No
WB2	East of I-110 and I-10, between Government Street and East Washington Street	64	23	2	8%	No
WB3	North of I-10 between East Washington Street and Dalrymple Drive	35	7	7	100%	Yes
WB4a	North of I-10 between East Lakeshore Drive and Perkins Road	29	12	11	92%	Yes
WB4b	North of I-10 between Perkins Road and South Acadian Thruway	36	22	0	0%	No

Table 6. Reasonableness Evaluation for NSAs Without Existing Noise Barriers

Noise Study Area	Description	Meets Noise Reduction Design Goal?	Barrier Area (sf)	Barrier Length (ft)	Avg Height (ft)	Barrier Cost	Benefits	Cost Per Benefited Residence	Reasonable?
EB2	South of I-10, from Fig Street to East Lakeshore Drive	Yes	50,446	3,680	14	\$1,614,272	146	\$11,057	Yes
EB3a	South of I-10, from East Lakeshore Drive to west of Perkins Road	Yes	33,852	2,418	14	\$1,184,820	43	\$27,553	Yes
WB3	North of I-10 from Dalrymple Drive to East Washington Street	Yes	35,120	2,621	13	\$1,194,080	49	\$24,368	Yes
WB4a	North of I-10 from west of Christian Street to East Lakeshore Drive	Yes	25,214	1,985	13	\$907,704	26	\$34,911	Yes

2.8.2 Noise Study Areas with Existing Noise Barriers

The five NSAs with existing noise barriers were evaluated in accordance with FHWA's guidance. Table 7 summarizes the results of the existing noise barrier evaluations. As indicated, none of the receptors in NSAs EB5 and EB6 are predicted to be impacted. Therefore, no further evaluation is needed.

Ten (10) residences in WB5 (South Acadian Thruway to College Drive) and one residence in WB7 (I-10/I-12 split to Essen Lane) are predicted to be impacted. Additionally, DOTD identified NSA EB4 (South Acadian Thruway to College Drive) as "conditionally impacted" due to parallel barrier effects. Therefore, these existing barriers were evaluated in accordance with FHWA's guidance to determine if they meet (1) DOTD's current acoustic feasibility criteria, and (2) DOTD's Noise Reduction Goal, which is part of reasonableness. Barrier modifications do not need to be evaluated if the existing noise barrier meets these criteria.

TNM predicted the noise reduction provided by the existing noise barrier for the receptors in each NSA. The noise reductions were then used to determine if the existing noise barrier meets DOTD's criteria.

The existing noise barriers for EB4 and WB7 provide at least 5 dB of noise reduction for more than 75% of the first-row receptors and thus meets DOTD's feasibility criteria. The existing barriers also meet DOTD's Noise Reduction Design Goal of providing 8 dB of noise reduction to at least one receptor. Therefore, no additional noise barrier evaluation is required for NSAs EB4 and WB7.

Ten (10) residences are predicted to be impacted in NSA WB5 with the existing noise barrier. The existing barrier does not meet the DOTD's feasibility criteria due to structure-borne noise from the bridge near College Drive that reduces the noise reduction for the five first-row residences on Aldrich Drive and Barber Street to below 5 dB. As a result, the barrier provides 5 dB for only 11 of the 17 first-row receptors (65%). Because the noise barrier does not meet the DOTD's feasibility criteria, an evaluation of potential barrier modifications was conducted. The evaluation concluded that, even with barrier modifications, 5 dB noise reduction still cannot be achieved at the first-row residences on Aldrich Drive and Barber Street due to the structure-borne noise. Therefore, a modified barrier is not feasible.

2.9 Statement of Likelihood

Table 8 summarizes the four noise barriers that are likely to be constructed as part of the project. The final decision on the implementation of noise barriers will be made by DOTD during project design. If during final design, conditions substantially change that impact the implementation of likely barriers, DOTD will solicit the viewpoints of the benefited residents and property owners as part of the reevaluation of reasonableness. Only barriers determined to be both feasible and reasonable will be constructed. Barriers that are no longer feasible and reasonable will be removed from the project.

DOTD will also be relocating parts of the existing noise barriers for NSAs EB4, EB5, WB5, and WB7 to accommodate the widening. Appendix E shows the locations of the likely noise barriers.

Table 7. Evaluation for NSAs With Existing Noise Barriers

		Existing			Meets Noise Reduction		Abatement
NSA	Name	Abatement	Impacts?	Feasible?	Design Goal?	Action?	Conclusion
EB4	Eastbound: South Acadian Thruway to College Drive	Barrier (portions to be relocated at same height)	No (considered "conditionally impacted" due to parallel barrier effect)	Yes	Yes	No Action	No changes to existing noise barrier.
EB5	Eastbound: College Drive to I-10/I-12 split	Barrier (portions to be relocated at same height)	No		No analysis need	No changes to existing noise barrier.	
EB6	Eastbound: I-10/I-12 split to Essen Lane	Barrier (no relocation necessary)	No		No analysis needed.		
WB5	Westbound: South Acadian Thruway to College Drive	Barrier (portions to be relocated at same height)	Yes – 10 residences	No	Yes	Evaluate Barrier Modifications	No changes to existing noise barrier. Feasibility not possible because of structure noise for Aldrich Drive and Barber Street receptors
WB7	Westbound: I-10/I-12 split to Essen Lane	Barrier (portions to be relocated at same height)	1 residence	Yes	Yes	No Action	No changes to existing noise barrier.

Noise Study Likely Barrier Location (begin Average Barrier Length (ft) **Estimated Cost** Area & end points) Height (ft) South of I-10, from Fig Street EB2 3,680 14 \$1,614,272 to East Lakeshore Drive South of I-10, from East EB3a Lakeshore Drive to west of 14 \$1,184,820 2,418 **Perkins Road** North of I-10 from Dalrymple WB3 \$1,194,080 Drive to East Washington 2,621 13 Street North of I-10 from west of WB4a Christian Street to East 1,985 13 \$907,704 Lakeshore Drive

Table 8. Likely Noise Barriers

2.10 Construction Noise

The construction of the project would result in temporary noise increases for the residences and noise-sensitive land uses along I-10. Noise-sensitive land uses that are farther from the project area would likely experience little, if any, increase in noise levels because of the background noise of the I-10 traffic, traffic on other roads, and other community noise sources. Construction noise would be generated primarily from heavy equipment used in hauling materials and accomplishing the widening of the roadway.

The construction contractor has the responsibility for protection of the general public in all aspects of construction throughout the life of the project. All construction equipment will be required to comply with OSHA Regulations as they apply to the employees' safety, and in accordance with the DOTD Standard Specifications. All construction equipment used in the construction phase of the project should be properly muffled and all motor panels should be shut during operation. To minimize the potential for impacts of construction noise on the local residents, allowable work times should be specified in construction contracts in consideration of potential construction noise impacts on local residents.

2.11 Information for Local Officials

DOTD encourages local communities and developers to practice noise compatibility planning to avoid future noise impacts. Two guidance documents on noise compatible land use planning are available from FHWA (FHWA 1974; FHWA 2002).

Table 9 presents future predicted noise levels based on an assumed at-grade situation for areas along I-10 and I-12 within the project limits where vacant and possibly developable lands exist. Noise predictions were made at several distances from edge of closest travel lane of I-10 for the design year 2040 LOS D traffic. The results indicate that exterior areas of Activity Category B and C uses would be impacted within a distance of approximately 380 feet from edge of pavement of the nearest travel lane of I-10. These values do not represent predicted levels at every location at a particular distance back from the roadway. Noise levels will vary with changes in terrain and other site conditions. This information is being included to make local officials and planners aware of anticipated highway noise levels so that future development will be compatible with these levels.

 Distance*
 L_{Aeq} (1h), dBA

 100 feet
 74.6

 200 feet
 70.3

 300 feet
 67.2

 400 feet
 65.2

 500 feet
 63.5

 600 feet
 61.7

Table 9. Design Year 2040 Predicted Noise Levels for Undeveloped Areas

2.12 Indirect and Cumulative Effects

The noise analysis is for the design year 2040 and includes projected traffic volumes for the project as well as well as forecasted background traffic growth and other planned and programmed projects in the area. As a result, the predicted noise impacts represent both direct and cumulative noise impacts.

The widening of I-10 could cause a redistribution of traffic on the surrounding roadway network and affect development and land use patterns in the project area. These situations could cause higher traffic volumes at locations near roadways beyond the project limits. However, as described earlier, a doubling of the traffic volume is required to increase the noise level by 3 dB, which is usually the smallest change in sound levels that people can detect without specifically listening for the change. Traffic volumes are not anticipated to double as a result of the redistribution of traffic or changes in development, so any increases in sound levels beyond the project would not be substantial according to DOTD's noise policy.

^{*} Perpendicular distance to the centerline of the nearest travel lane of I-10.

3 REFERENCES

Federal Highway Administration, November 1974, *The Audible Landscape: A Manual for Highway Noise and Land Use*.

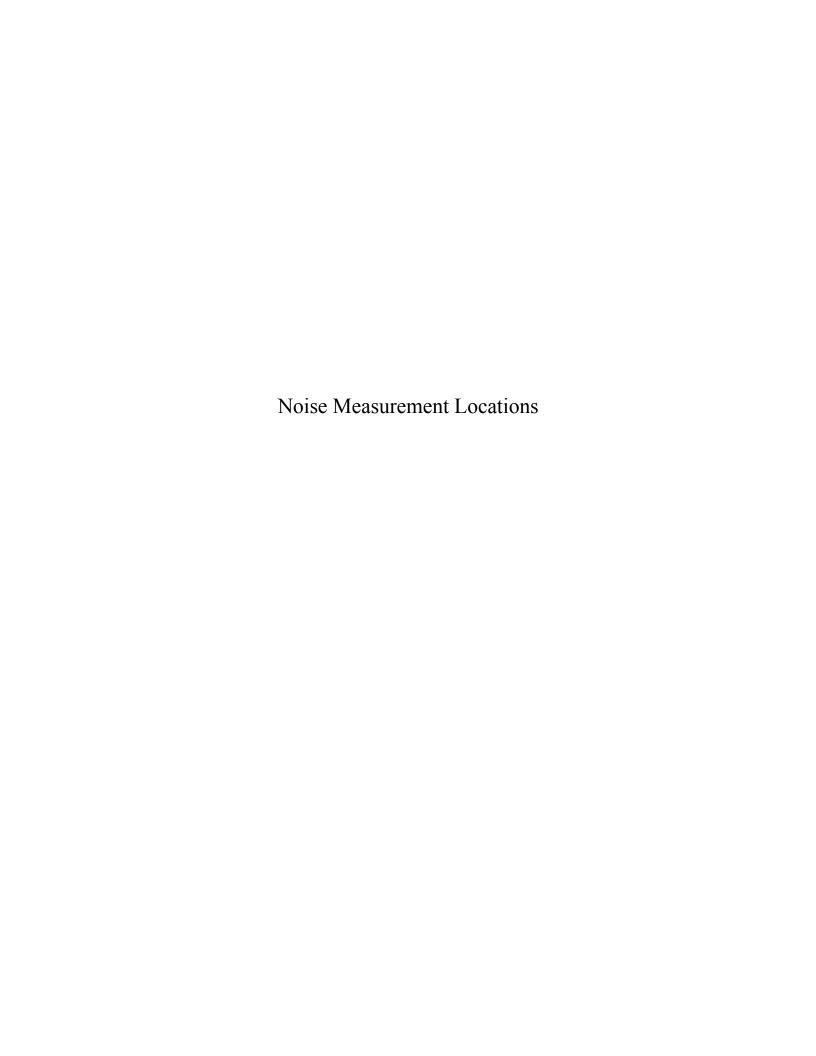
Federal Highway Administration, May 2002, Entering the Quiet Zone: Noise Compatibility Land Use Planning.

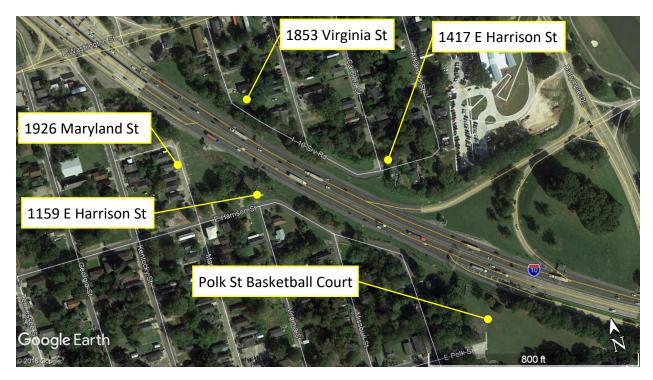
Federal Highway Administration, July 2010, *Procedures for Abatement of Highway Traffic and Construction Noise*, 23 CFR 772.

Federal Highway Administration, August 2012, Consideration of Existing Noise Barrier in a Type I Noise Analysis (FHWA-HEP-12-051).

Louisiana Department of Transportation and Development (DOTD), July 2011, *Highway Traffic Noise Policy*.

Appendix A
Noise Measurement Results and Corresponding Traffic Counts

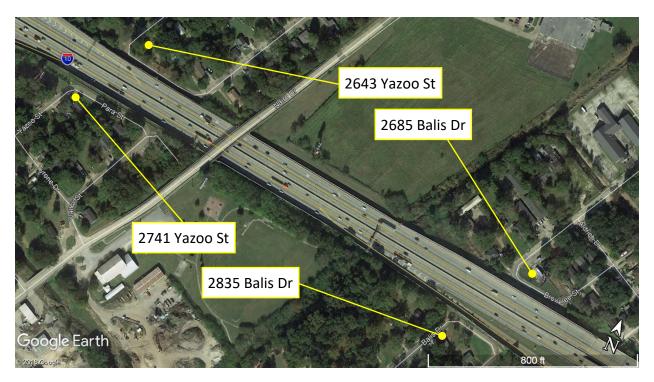




Noise Measurement Locations



Noise Measurement Locations



Noise Measurement Locations



Noise Measurement Locations



Noise Measurement Locations

Noise Measureme	nt Notes, Sound Leve	els, Photos, and Traffic

Lo	ouisiana Depai	tment of	f Transpo	ortation & I	Development
Project Name:	I-10 Widenin	I-10 Widening (LA 415 to Essen Lane) Baton Rouge, LA			
Site:	5641 Trentor	Ave			
Description:	Single family	residen	ce		
SLM Filename:	SLM_000160	4_LxT_1	1604_003	.05	
Date:	3/20/2018				
Period #	Time Start	Leq	Lmax	Delete?	Notes
1	12:41 PM	64.5	67.2		
2	12:42 PM	67.1	73.4	X	Heli overhead
3	12:43 PM	66.3	69.1		
4	12:44 PM	65.8	67.6		
5	12:45 PM	66.3	67.7		
6	12:46 PM	66.3	67.6		
7	12:47 PM	65.7	67.7		
8	12:48 PM	65.3	66.7		
9	12:49 PM	65.6	67.9		
10	12:50 PM	65.3	66.9		
11	12:51 PM	65.6	67.1		
12	12:52 PM	66.0	67.7		
13	12:53 PM	65.6	67.3		
14	12:54 PM	65.6	67.0		
15	12:55 PM	68.1	70.3		
16	12:56 PM	67.1	67.5	X	End data
	Leq	65.9			

	I-10: LA4:	15 to Essen Lane Improvements, Baton Rouge, LA
Date 3	120118	Site Sketch
Area		TITTE (8) PASHOP
ddress	SWII TRAITO	
	irection	Notes Notes Other
#	Time Start	Description
1	1241	HT B-67 MI T-10 NOVE FREPLW
2	42	HERE ONDHONG= 7-2:15-7:31
3	43	MUNTI HTS = 68-69
4	44	
5	1241	1+ W3-67 formel 155-67 040-6-8/4NW
-6	48	
7	47	
8	48	
9	45	wo HT EB
10	1210	
11	25	
12	25	ALL ITO MOISE 6-10/N
13	53	AT SPACE WG- 67-68
14	24	a Cantain of the same
15	1205	word for trues AT + = 6869 (Mossiffron Har 1)
16		
17		
18		(21) 01714 C 1256
19		
20		
21		
22		
23		
24		
25		
26		
27		
28	-	
29		

Alos = 64-64 constrainty HT = 64-66 miles HTS = 66-68 L+T 1604,003





5641 Trenton Ave

Lo	ouisiana Depai	rtment	of Trans	portation &	Development
Project Name:	I-10 Widenin	I-10 Widening (LA 415 to Essen Lane) Baton Rouge, LA			
Site:	2835 Balis Di	r			
Description:	Single family	reside	nce		
SLM Filename:	SLM_000160	04_LxT	_1604_00	04.04	
Date:	3/20/2018				
Period #	Time Start	Leq	Lmax	Delete?	Notes
1	1:15 PM	67.4	69.4		
2	1:16 PM	67.9	68.9		
3	1:17 PM	66.4	68.5		
4	1:18 PM	67.6	68.9		
5	1:19 PM	68.3	70.8		
6	1:20 PM	67.4	68.6		
7	1:21 PM	67.2	68.8		
8	1:22 PM	66.7	68.8		
9	1:23 PM	67.0	68.6		
10	1:24 PM	66.2	68.0		
11	1:25 PM	66.7	68.3		
12	1:26 PM	66.4	67.5		
13	1:27 PM	66.2	67.6		
14	1:28 PM	67.5	69.2		
15	1:29 PM	69.1	70.6		
16	1:30 PM	68.6	69.3	X	End Data
	Leq	67.3			

Noise	Measurement	Data	Sheet

	I-10: LA41	5 to Essen Lane Improvements, Baton Rouge,	LA TIORS
	120/18	Site Sketch	-11. 20-22°
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а а		1/25	
dress	2835 BALISDA	Brand of 8	
D	emp Cr.cef, so	Notes (F3	Other
N/LD/N1			l Check=
#	Time Start	Description	6-10 /NW
1	1368	till f-10 moise thee Flow	
2	17		way t in they
3	18		
4	14	T vol - 65.70 (v:050)	
5	1320	Two compressions	11.00
6	21		
7	21	LOVO HT HOSEL? 10 June 12 1 64. 65	
8	73	Land H. M. S. C. L. L. C.	
9	24	TRANSPIRE WHOS CALMEN = 65.66	any = 2 - 6 /2h
10	1325	1	t- /- /- /-
12	16		
13	27		
14	28	HT STACK EBS 68	610016-81
15	25	W1207: 49.70 HT STANK 13:70	4440 - 8-12
16		1	
17		CARD DAMA C 1330	
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			

Note H5-66-69

Lx1 1604.004





2835 Balis Dr

Lo	ouisiana Depai	rtment	of Trans	portation &	k Development
Project Name:	I-10 Widenin	I-10 Widening (LA 415 to Essen Lane) Baton Rouge, LA			
Site:	2741 Yazoo S	St			
Description:	Single family	reside	nce		
SLM Filename:	SLM_000160	4_LxT	_1604_00	05.03	
Date:	3/20/2018				
Period #	Time Start	Leq	Lmax	Delete?	Notes
1	1:56 PM	71.9	73.9		
2	1:57 PM	72.2	73.8		
3	1:58 PM	72.2	74.4		
4	1:59 PM	72.7	73.9		
5	2:00 PM	70.6	72.1		
6	2:01 PM	72.3	73.6		
7	2:02 PM	74.0	76.6		
8	2:03 PM	71.5	73.9		
9	2:04 PM	72.0	74.1		
10	2:05 PM	71.7	75.8		
11	2:06 PM	78.3	83.0	X	Car Alarm Horn = 82
12	2:07 PM	72.5	74.4		
13	2:08 PM	73.4	79.9		
14	2:09 PM	72.0	75.6	X	Car Horn
15	2:10 PM	71.4	73.0		
16	2:11 PM	71.9	72.9	X	End Data
	Leq	72.3			

	1.40- I A.44E	Noise Measurement Data Sheet
	I-10: LA415	to Essen Lane Improvements, Baton Rouge, LA
Date 5/	20118	Cita Chatch
Site	17 0	7.7
		Axivity City
Area		
Address	2941 41220 35	Transl (Brill'
_		12874 / (270)
Weather	np 66°F, Jane	
Win		
	\$ 15/10/20	Notes
	ection	Cal@ 114.0 Cal Check=
# #	Time Start	Cal@ If Y Cal Check= Description
	13 n	M TIO WOLF / FREETON
1	57	Consissant 70+ dB , DOURCE AUST STUR
2	58	Wint 8-11 /W
4	55	Dia 5 1. / 10
5	1400	
6	41	
7	62	6147-8-12/
8	03	
9	01	
10	14 05	: 13 HT street -245 : 75-76
11	06	was & gruppy = 71-72 x (on tehn Hear) = 82 440-ps:57
12	UZ-	*
13	cs	
14	4	cm toru
15	1410	
16		EHD WATE 61411
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WHAT & (6-8 MM) IIO: 70-72

LF 1604,005



2741 Yazoo St

Lo	ouisiana Depai	rtment	of Trans	portation &	Development
Project Name:	I-10 Widenin	I-10 Widening (LA 415 to Essen Lane) Baton Rouge, LA			
Site:	Westport Vil	lage Ap	ots		
Description:	Single family	reside	nce		
SLM Filename:	SLM_000160	04_LxT	_1604_0	08.03	
Date:	3/21/2018				
Period #	Time Start	Leq	Lmax	Delete?	Notes
1	6:34 AM	63.1	66.4		
2	6:35 AM	64.3	67.5		
3	6:36 AM	64.2	68.1		
4	6:37 AM	65.5	71.8		
5	6:38 AM	63.2	66.7		
6	6:39 AM	62.3	65.5		
7	6:40 AM	64.6	70.7		
8	6:41 AM	63.6	66.3		
9	6:42 AM	63.7	65.8		
10	6:43 AM	63.5	65.2		
11	6:44 AM	64.8	69.6		
12	6:45 AM	64.3	68.2		
13	6:46 AM	62.8	65.8		
14	6:47 AM	63.0	65.0		
15	6:48 AM	63.9	65.4		
16	6:49 AM	63.3	63.6	X	End Data
	Leq	63.9			

Noise Measurement Data Sheet I-10: LA415 to Essen Lane Improvements, Baton Rouge, LA

Date; Site	5/21/18	Site Sketch	
Area		Commercial Days	
Address	Nopre Viller Ar	211m	
W	emp 46°F ind 221NNW rection 21# 1644	18 Notes Othe	
#	Time Start	Cal@ (/V. o Cal Check=	Const. Da
1	434	I'1 = 61-65 lowlose termened Mer 5-66	1
2	635	HT WS STOUL 64.45 , 10 wl-67 HT WS-65	10
3	12	TIO FOR FIND HT CT-65	11
4	77-	HT (west) = 71	11()
5	38	HI I I I I I I I I I I I I I I I I I I	∃'n"
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7	640	pur (1001)= 70?	$\exists i$ ((
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9	YL		1
10	47		$\exists i$
11	44	scholas	Tiu .
12	685	long mys let lord net: 48	111
13	46	poly only on I 10=61 10-68	
14	47		1
15	48	±10=62-47	
16			
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18		END DATACLYS	
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29			
30			

I've = 62-63 constructly loud path on Conmerced Demonster-67

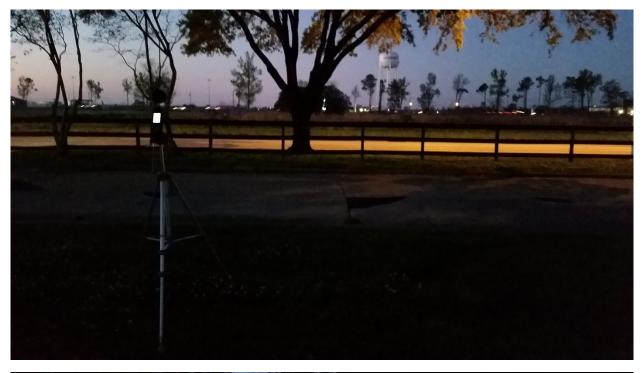
LxT1604.008

Lo	ouisiana Depai	tment	of Trans	portation &	Development	
Project Name:	I-10 Widenin	I-10 Widening (LA 415 to Essen Lane) Baton Rouge, LA				
Site:	Westport Vil	Westport Village Apts				
Description:	Single family	reside	nce			
SLM Filename:	SLM_000160	4_LxT	_1604_02	21.02		
Date:	3/22/2018					
Period #	Time Start	Leq	Lmax	Delete?	Notes	
1	2:22 PM	57.5	60.7			
2	2:23 PM	56.0	60.4			
3	2:24 PM	58.2	61.9			
4	2:25 PM	57.2	62.6			
5	2:26 PM	57.9	64.4			
6	2:27 PM	57.4	63.4			
7	2:28 PM	57.3	61.1	X	resident talking nearby	
8	2:29 PM	59.3	65.7			
9	2:30 PM	57.2	60.7			
10	2:31 PM	62.3	71.2			
11	2:32 PM	62.1	71.8			
12	2:33 PM	64.2	71.8			
13	2:34 PM	60.7	66.6			
14	2:35 PM	59.1	66.6			
15	2:36 PM	53.9	56.4			
16	2:37 PM	56.0	60.9			
17	2:38 PM	62.1	70.9			
18	2:39 PM	54.4	56.3			
19	2:40 PM	56.5	63.0			
20	2:41 PM	57.2	62.4			
21	2:42 PM	61.2	67.4	X	End Data	
22	2:43 PM	58.1	61.3	X		
23	2:44 PM	59.1	65.6	X		
24	2:45 PM	60.8	66.2	X		
	Leq	59.3				

Noise Measurement Data Sheet I-10: LA415 to Essen Lane Improvements, Baton Rouge, LA

Date 3/	22/18	Site Sketch
rea		
ddress	WESTPLA	· Most Agos / south and at
W	emp 74°, 500mg (Other Notes
ONLOVN	irection 21# 16e4	Cal@ I/Y. O Cal Check=
#	Time Start	Description
1	1422	I'10 pnellow 510:1-58
2	23	Lotal onto an Commercial DA: 60
3	24	Artogery: 54 want -61
4	1425	HOTSTALL WOT WOR WON CAN
5	76	Low rown
6	27	Lock LINE 4-51 NUT
7	29	125 SIDART TAKING MEOREY
В	29	HT WEND 64-68 LOSEANTOS UZ WINSEZS/N
9	1430	locks looks unse datear
10	3/	HT ES STALKE 61 LUM PROPES-61 HT LOGICTI
11	32	low pupen
12	33	2 LOCKE HTS 71-72
13	34	LOCKANDELI LOCAZ AND = PLOS JIO. M. FT GORDA
14	1435	LOCALITY 67 LOCALANT HT: 61 4000: 5-6/55E
15	36	Loun (star) (Slow)
16	37	Ht WB Stave = 57-58 , HT SAKK WS = 75US
17	38	LOWARDS 41 , LOUGH , WEARTS 71
18	35	WBT-10 Story, BACKUP From LA 418 ONT 35-40 mgl
19	1440	AT US STOLLE DOWNSTATE
20	41	to in
21		
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23		on onxelyer
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/24		

LyT1604,021





Westport Village Apts

Lo	ouisiana Depar	tment of	Transpo	rtation &	Development
Project Name:	I-10 Widenin	g (LA 41	5 to Esse	n Lane) Ba	nton Rouge, LA
Site:	1853 Virginia	a St			
Description:	Single family	residenc	e		
SLM Filename:	SLM_000160	4_LxT_1	1604_009	.03	
Date:	3/21/2018				
Period #	Time Start	Leq	Lmax	Delete?	Notes
1	9:30 AM	73.6	75.6		
2	9:31 AM	74.2	79.5		
3	9:32 AM	74.1	78.1		
4	9:33 AM	74.5	79.8		
5	9:34 AM	75.0	80.8		
6	9:35 AM	73.9	77.2		
7	9:36 AM	74.0	76.7		
8	9:37 AM	75.6	81.4		
9	9:38 AM	74.1	75.5		
10	9:39 AM	73.9	77.4		
11	9:40 AM	74.1	80.6		
12	9:41 AM	73.5	75.3		
13	9:42 AM	73.9	77.2		
14	9:43 AM	74.1	76.5		
15	9:44 AM	74.9	77.8		
16	9:45 AM	74.1	76.3		
17	9:46 AM	72.8	75.1	X	
18	9:47 AM	72.1	74.6	X	
19	9:48 AM	74.9	80.6	X	
20	9:49 AM	73.4	77.8	X	
21	9:50 AM	70.7	71.3	X	End Data
	Leq	74.2			

	I-10: LA4	15 to Essen Lane Improvements, Baton Rouge, LA	
Date 3	21/18	Site Sketch	es stil
Area		S(3) (41) () () () () () () () ()	11-60
Address	1853 VIRG	WIA St.	
W	emp 58°, 50000(find 2-5/ 11, 4 irection 21# /604	Notes Notes Cal (14,0) Cal Check=	in
#	Time Start	Lyrsmr 2923 Description	
1	930	All T-10 / proce row us: 00= 45.50 mgh	
2	31	HT US STORE / 1/21/11 = 79-80	
3	17	Hr us-78	
4	33	14 ms = 74-50 (stores) HT CS STOREE = TE	
5	34	HT Longstock WB	
6	935	WN0: 4-6/NNE	
7	37	wellitty gara mechan 76-77	
8	37	Hrus stock-81 speeds 81-11 years 45 swb, 52-57 00	
9	38	in 18-6-81 M	6
10	35		
11	940	LOVO CO HT STALLE SI WIND 2-5 NOVE	
12	41		
13	43	(140 HT Store 83 = 77-78	
14	43		
15	44	HT WS Stack: 75 wyso=2.5/move	
16	945		
17	46		
18	47		
19	48	wise 1000 of Police execut the WS/ WB street: 25-700/6	45.527
20	49	us stow. HTUB Accel - 77-78 :40 US novery butter	,
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22		CHD DUTHE PSO	
23			
24			
/"			

The constitute of the To we as show general some uplied

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Louisiana Department of Transportation & Development						
Project Name:	I-10 Wideni	ng (LA	415 to H	Essen Lane)	Baton Rouge, LA	
Site:	1853 Virgin	ia St		-	_	
Description:	Single famil	y resid	lence			
SLM Filename:	SLM 00016	04 Lx	T 1604	013.02		
Date:	3/21/2018	_				
Period #	Time Start	Leq	Lmax	Delete?	Notes	
1	2:05 PM	71.2	74.7			
2	2:06 PM	71.6	75.5			
3	2:07 PM	72.3	80.9			
4	2:08 PM	75.7	86.2			
5	2:09 PM	74.8	83.6			
6	2:10 PM	71.4	76.3			
7	2:11 PM	76.0	83.6			
8	2:12 PM	77.7	86.9	X	HT Stack 86-87	
9	2:13 PM	70.3	73.4			
10	2:14 PM	72.7	80.7			
11	2:15 PM	70.9	73.9			
12	2:16 PM	72.6	78.7			
13	2:17 PM	72.3	77.7			
14	2:18 PM	78.3	88.1	X	HT Stack 88 dB (Data Anomaly)	
15	2:19 PM	71.7	75.5			
16	2:20 PM	70.2	71.8			
17	2:21 PM	73.8	82.7			
18	2:22 PM	71.1	76.4			
19	2:23 PM	71.9	78.3			
20	2:24 PM	71.4	77.2			
I	1	1		1		

End Data

2:25 PM

Leq

21

71.8

72.7

73.5

	I-10: LA41		nent Data Sheet provements, Baton Rouge,	LA
Date	3/21/18	Site	Sketch	
Site			Sapravious	
Area				
_				
Address _	1853 VIRAINI	+ ST.		
Weather				
Te	emp 66°,5000			Other
vv	ind 4.81 NNE		Notes	Other
RION/LOIN1	irection 21# 7604		Cal@ #4. o Cal	Check=
THE PROPERTY OF	Time Start	Lyr somre 1400	Description	Check=
1	14 05		WB: 25 mpl EB = 40-45 mgl	>=68-70-6
2	06	gouls up stolete	, Forz typical	
3	07		7.48 HT EB Street 75	AT US SMEKE-SH 1
4	c &	Ho us soul	- 8T - 16	WB: 20-25 CB=4
5	29	HT WS STACKA	und: 81 , fres ME SAME	87
6	1410	The state of the s	,	WB-25-30 B-45-
7	1/	AT MAKE W3. 03		
8	(2.	. AT ACCE NO STOW	e-81.87	
9	13			4.9-30 W-15-52
10	14	LOVO PIL of Azer	ch wg-80	
11	1415			W6 > 20-21 03 > 45.
12	14			
13	17	LOWD HT STATULEL	3	
14	18'		WB (EVERLYNK) = 80 HTS	
15	. 15	NO 3900239 5	lightly (puts orly = 6+69)	43 · 30 \$ 23: 41
16	1420			
17	71	Long up HT E	JAK, COMPRESSION BOUNCES BE	WAS 25-30 COS477
18	72			
19	13	HT 63 STALLE : 75		42-32.10 B. 16-2
20	24	as stous		HOBER -15-20 10-45-
21				
22			END DAME 1452	
23				
24				
25				
26				
27				

inner 2 us ins typoly ris slow than ontide us Low (= 810)

LyT/604.013





1853 Virginia St

L	Louisiana Department of Transportation & Development				
Project Name:	I-10 Widenin	g (LA 4	15 to Es	sen Lane) I	Baton Rouge, LA
Site:	E Polk St BB	court			
Description:	East Polk St	park ba	sketball	court	
SLM Filename:	SLM_000160	6_LxT	1606_00	2.00	
Date:	3/21/2018				
Period #	Time Start	Leq	Lmax	Delete?	Notes
1	10:30 AM	71.5	78.3		
2	10:31 AM	71.6	74.3		
3	10:32 AM	70.5	73.2		
4	10:33 AM	70.1	71.9		
5	10:34 AM	70.0	72.4		
6	10:35 AM	69.8	71.3		
7	10:36 AM	70.4	74.5		
8	10:37 AM	70.9	74.1		
9	10:38 AM	70.2	74.9		
10	10:39 AM	69.6	72.0		
11	10:40 AM	70.6	72.7		
12	10:41 AM	73.6	81.4		
13	10:42 AM	70.0	72.8		
14	10:43 AM	70.5	76.1		
15	10:44 AM	70.1	73.5		
16	10:45 AM	70.6	74.7		
17	10:46 AM	70.2	76.5		
18	10:47 AM	68.7	71.3		
19	10:48 AM	70.8	72.7		
20	10:49 AM	70.7	75.5		
21	10:50 AM	70.8	73.2	X	End Data
	Leq	70.6			

Date	1-10: LA415 to Es 3/21 Polk St. BA	ssen Lane Improvements, Baton Rouge, LA
Area		1 5
Address		
Weather To	emp 'ind	Other
Di	irection	Notes
RION/LD/N1		Cal@ Cal Check=
#	Time Start	Description
1	10:30 AM	Start
2		
3		
4		
- 5		
- 6		
7		
- 8		
9		
10		
-11		
12		
13		
14		
15		
16		
17		
18		
19	10:50 Am	end. No Abnormal noise
20	10:50 Am	
21		during measure ment.
22		
23		
24		
25		
26		
27		
28		
29		
30 1		

LxT- 1606.002

Lo	Louisiana Department of Transportation & Development			
Project Name:	I-10 Widening (LA 415 to Essen Lane) Baton Rouge, LA			
Site:	E Polk St BB court			
Description:	East Polk St park basketball court			
SLM Filename:	SLM_0001606_LxT_1606_005.02			
Date:	3/22/2018			

Period #	Time Start	Leq	Lmax	Delete?	Notes
1	11:15 AM	71.0	73.2		
2	11:16 AM	71.3	72.9		
3	11:17 AM	72.0	74.0		
4	11:18 AM	71.1	72.7		
5	11:19 AM	72.3	75.3		
6	11:20 AM	73.5	80.2		
7	11:21 AM	72.5	78.3		
8	11:22 AM	70.6	73.2		
9	11:23 AM	71.9	77.6		
10	11:24 AM	72.2	77.9		
11	11:25 AM	69.6	72.7		
12	11:26 AM	69.3	70.9		
13	11:27 AM	70.5	73.6		
14	11:28 AM	71.9	73.5		
15	11:29 AM	72.1	74.4		
16	11:30 AM	72.1	76.4		
17	11:31 AM	70.7	75.2		
18	11:32 AM	70.2	72.4		
19	11:33 AM	70.5	71.6		
20	11:34 AM	72.8	80.2		
21	11:35 AM	71.3	75.4	X	End Data
	Leq	71.5			

Noise Measurement Data Sheet I-10: LA415 to Essen Lane Improvements, Baton Rouge, LA

ea		1926 MARGLAND ST - (LATH 1604) SOT	ntaill	3
ddress	1924M WHY WHIS	il.		
Wi	mp 62 65°F. Samy nd Z-L/NHE rection	Notes		
ON(LD/N12	1# \$ 1604 : 1606		us	-
#	Time Start	Description		
1	1115	±-10 FREEZOW HT WB STRKE-79 LONG: Z-LINNE	40-41	ч
2	16	HT ES SMK: 80?	1	
3	17	must chim	45.10	i
4	18		1	
5	19	in 19: 4-6/1 squitage 1855 = 72-74	N6	
6	1120	multiple Hoss = 72-74		5
7	71	AMBRITAR SIRA ED-76 Atrs only = 68-69 win = 2-4/EN	1	
8	5.8-		1	
9	13	WE AT SALCE TY, 15 AT STATICE 75		
10	24	speeds & EB	41-60	
11	1125			
12	26	speeds book of ED	41-10	,
13	77	i con corru		
14	2.8	All of 100 Free From Flow troughte]	
15	29	145 = 71-73]	
16	11 36	ion vol south of 5-10 people 65-67 quel 24/E	wé.	
17	31]	
18	72	HTES STOCK (216 LONG BOK: 75.74]	
19	30			
20	34			
21				
22		END mac 11:35]	
23]	
24]	
25]	
26]	
27				
28]	
29			1	
30			1	





E Polk St BB court

L	Louisiana Department of Transportation & Development				
Project Name: I-10 Widening (LA 415 to Essen Lane) Baton Rouge, LA					
Site:	Site: 1926 Maryland St				
Description:	Description: Single family residence				
SLM Filename:	SLM_0001604_LxT_1604_010.05				
Date:	3/21/2018				

Period #	Time Start	Leq	Lmax	Delete?	Notes
1	10:30 AM	72.7	80.9		
2	10:31 AM	71.8	77.1		
3	10:32 AM	71.4	78.1		
4	10:33 AM	69.8	71.9		
5	10:34 AM	69.8	71.0		
6	10:35 AM	69.9	71.4		
7	10:36 AM	70.0	73.2		
8	10:37 AM	70.9	73.1		
9	10:38 AM	70.5	73.0		
10	10:39 AM	68.8	70.4		
11	10:40 AM	72.8	81.5		
12	10:41 AM	69.8	75.9		
13	10:42 AM	68.4	69.9		
14	10:43 AM	69.9	75.2		
15	10:44 AM	70.1	75.5		
16	10:45 AM	71.8	78.5		
17	10:46 AM	69.8	72.1		
18	10:47 AM	69.8	72.5		
19	10:48 AM	69.6	71.4		
20	10:49 AM	69.6	71.8		
21	10:50 AM	71.2	76.6	X	End Data
	Leq	70.5			

Noise Measurement Data Sheet I-10: LA415 to Essen Lane Improvements, Baton Rouge, LA

Site	5/21/18	Site Sketch
Site		F10 EB
Area		8(1//// /((((()))))
Address	1021	X-x-
Address	1926 MISS	THE STATE OF THE S
Weather		Alle
T	emp 58°, Survey	18
V	Vind 2-4	Notes 1976 Other
D	irection	Notes 1997 1940
RION(CD/N	121# /604	
#	Time Start	Description
1	1030	All I-10 noise HT stace 15-78-77? I 10 = FreeFlow
2	31	
3	22	Loss it stace wis
4	3)	4.00
- 5	34	Corea HT permo 165-49 motosonly wise com
- 6	1035	
7	36	The state of the s
8	3+	
9	38	
10	35	
11	1040	HT STAKE M= 75 HTSTAKE 19= 81-82
12	41	
13	42	
14	43	Loud who I supe sipe effect bothers 4.5/E
15	44	NOTES - US SINCE 40-15 MAN
16	1045	45 smel 68:78
17	48	457 4 15 vol better 68-69
18	YT	1000 to the rul before 68069
19	48	B Slang to 45.00
20	49	
21		
22		
23		
24		
25		
26		
27		
28		
29		
30		

typine I 10=71-75 00; ng = 505545.58

1604,010

Lo	uisiana Depar	tment o	of Trans	portation	& Development		
Project Name:	I-10 Widenin	I-10 Widening (LA 415 to Essen Lane) Baton Rouge, LA					
Site:	1926 Maryland St						
Description:	Single family residence						
SLM Filename:		SLM 0001604 LxT 1604 014.02					
Date:	3/21/2018	·					
	<u> </u>						
Period #	Time Start	Leq	Lmax	Delete?	Notes		
1	2:40 PM	66.3	69.0				
2	2:41 PM	61.4	64.5				
3	2:42 PM	63.1	65.7				
4	2:43 PM	68.8	82.2				
5	2:44 PM	71.2	81.2				
6	2:45 PM	64.8	67.9				
7	2:46 PM	63.4	65.8				
8	2:47 PM	64.6	66.6				
9	2:48 PM	65.5	73.3				
10	2:49 PM	67.6	73.1				
11	2:50 PM	66.4	69.3				
12	2:51 PM	65.2	68.2				
13	2:52 PM	62.2	64.7				
14	2:53 PM	64.6	68.7				
15	2:54 PM	72.5	81.1				
16	2:55 PM	65.7	69.9				
17	2:56 PM	68.7	75.6				
18	2:57 PM	67.9	72.5				
19	2:58 PM	65.0	69.8				
20	2:59 PM	64.2	67.8				
21	3:00 PM	63.4	66.4				
22	3:01 PM	65.2	71.8				
23	3:02 PM	64.4	70.9				
24	3:03 PM	62.0	65.5	X	EB stopped		
25	3:04 PM	62.2	64.3	X	• •		
26	3:05 PM	63.3	70.4	X	End Data		
	Leq	66.7					

Maine	Measurement	Data	Shoot

I-10: LA415 to Essen Lane Improvements, Baton Rouge, LA

a		
ress	1926 Auso	an Wantrop
ther		
Tem	p 63'f, 5 mg	
Win	d 2-5/NAE	Other
Dire	ction	1140
/LD/N121		Cal@ / / Cal Check=
#	Time Start	Let 87min 1438 Description
1	1440	Co : 40-45 cmp UB= 30-35 : 10 08 slove to cutous
2	4/	ED 577 90 W= 30-35mpl > 57-60 dot
3	42	CB= straigo ws=3035mpl
4	43	EB HT HURY : 20 BS JO MOING BAREZ : 20-25 MA
5		consect of CB stree: 82
6	1442	EB: 25.30 WB: 35-40 > 62-44
7	46	an 20-25 mo- 35-40 >41-12 C128 ar 349,50
8	47	C:15 63 15-70 Wg= 35-40
9	48	CB: 20-25 6-3:40-45
10	49	01-55-40 W3=4098 > 67-48
11	1450	:57 001 10-15 ms 40-42 7 63-64
2	31	
3	25	03 25 45.45 7 63-64 : 28 634 Styl
14	53	OD Styles cocks 67,
15	54	42-15-20-06 mg- 40-42 HT SPACE / ON COMD = 75 MCH
16	1455	
17	J.	13= 65-70-35 10=40-45 Look > 67-68 well 1475
18	57	
19	58	15+ 20-76 UB=40-45 > 63
20	59	03 15.20 MB=4041
21	1500	EB 16-15 6-B: 40-47
2	01	ES-10-15 US-16-40-45 /2-15 \$ WB110-7-72
23	02	ES CAMERIA 1554, 40 US-40-41
24	63	ED stopped 1578; so
25	04	
6	,	
7		END DAMA C1505
8		
99		

species lover than one were

411504.614

Lo	ouisiana Departm	ent of	Transpor	tation & De	evelopment
Project Name:	I-10 Widening (LA 415 to Essen Lane) Baton Rouge, LA				
Site:	1926 Maryland St				
Description:	Single family re	sidenc	e		
SLM Filename:	SLM 0001604			02	
Date:	3/22/2018		_		
Period #	Time Start	Leq	Lmax	Delete?	Notes
1	11:15 AM	71.4	79.4		
2	11:16 AM	72.2	80.2		
3	11:17 AM	70.6	74.1		
4	11:18 AM	70.3	74.8		
5	11:19 AM	69.7	73.0		
6	11:20 AM	70.5	73.2		
7	11:21 AM	70.5	77.0		
8	11:22 AM	70.2	73.9		
9	11:23 AM	70.4	75.1		
10	11:24 AM	69.3	71.3		
11	11:25 AM	69.8	73.6		
12	11:26 AM	70.4	75.4		
13	11:27 AM	70.1	75.8		
14	11:28 AM	70.4	73.8		
15	11:29 AM	71.5	73.6		
16	11:30 AM	70.1	72.9		
17	11:31 AM	69.2	72.6		
18	11:32 AM	69.3	73.7		
19	11:33 AM	70.1	72.8		
20	11:34 AM	69.2	71.3		
21	11:35 AM	69.9	70.7	X	
	Leq	70.3	<u></u>		

Noise Measurement Data Sheet I-10: LA415 to Essen Lane Improvements, Baton Rouge, LA

ea		1926 MARGLAND ST - (LATH 1604) SOT	ntall	3
ddress	1924M MY UNIO	il.		
Wi	mp 62 65°F. 5 and and 2-6/ NAE	Notes		
ON(LD/N12	1# \$ 1604 : 1606		us	-
#	Time Start	Description		
1	1115	+10 FREEZON HT 68 STRKE-79 LINES: Z-LINNE	40-41	ч
2	16	HT E3 SMK: 80?		
3	17	must chim	45.10	i
4	18		1	
5	19	in 19: 4-6/1 squitiple 1855 = 72-74	NE	
6	1120	my those stry = 72-74	30	5
7	71	AMBRITARS SIRA ED-76 Atos only = 68-69 win= 2-4/EN	1	
8	2.2-			
9	13	WE AT SPACE - 74 , 15 AT STATICE - 75		
10	24	59-cels & EB	41-60	
11	1175			
12	26	groots book of ED	41-10	
13	77	i con corru		
14	2.8	All of the face flow traffic]	
15	29	its = 71-73]	
16	11 36	convol south of 5-10 people 65-67 quel 24/E	vé.	
17	31			
18	72	HTES STACK (216 LONG BOK: 75.74		
19	35]	
20	34			
21]	
22		END mac 11:35]	
23			1	
24			1	
25			1	
26			1	
27			1	
28			1	
29			1	
			1	





1926 Maryland St

Lo	ouisiana Depart	ment of	Transp	ortation &	2 Development		
Project Name:	I-10 Widening (LA 415 to Essen Lane) Baton Rouge, LA						
Site:	2280 Baywood	2280 Baywood Ave					
Description:	Single family r	Single family residence					
SLM Filename:	SLM_0001604	_LxT_1	604_011	1.03			
Date:	3/21/2018						
Period #	Time Start	Leq	Lmax	Delete?	Notes		
1	11:25 AM	73.5	76.9				
2	11:26 AM	74.7	80.2				
3	11:27 AM	74.3	77.2				
4	11:28 AM	76.0	84.0				
5	11:29 AM	74.4	77.6				
6	11:30 AM	73.6	76.2				
7	11:31 AM	74.5	78.9				
8	11:32 AM	76.9	87.5				
9	11:33 AM	75.1	78.9				
10	11:34 AM	74.5	79.6				
11	11:35 AM	73.5	76.8				
12	11:36 AM	73.9	77.6				
13	11:37 AM	73.3	75.5				
14	11:38 AM	73.7	81.9				
15	11:39 AM	74.4	77.6				
16	11:40 AM	73.3	77.3				
17	11:41 AM	73.7	78.0				
18	11:42 AM	74.5	80.3				
19	11:43 AM	74.0	76.0				
20	11:44 AM	72.8	74.7				
21	11:45 AM	72.6	74.5	X	End Data		
	Leq	74.3					

Maine	Measurement	Data	Chast	
Noise	Measurement	Data	Sheet	

	I-10: LA41:	to Essen Lane Improvements, Baton Rouge, LA	rá.
ate 3/	21/18	Site Sketch	mela some q- 16
rea		70° f 20° 6	- /-// 319 to 31-9
ddress	2280 BH was to	EAVE DAY BOYTY	+ 1// 319 hs step to paray will kelydi - 2280
Dire	np 60°F, sonry nd 2-8 NAT	/vmquds Notes	Other
ON/CD/N121		Cal@ // V, O Cal Check	
#	Time Start		13 +
1	1125		
2	24	AT STALL WS-80 HT STALL (8:77	
3	28	1 2 21 2 21 Mars 1-0 + 84	p+2-5/N
4	29	END PROP EXHOUS NO-84 MS	1100
5	11 30		
6		Loro wis HT	
7	32		
8	33	was the states mis	405=2-61 WSW
9	24	HT SAUC 05-78	(22-1-G) (n20)
10	11.35	41 24cc 62 48	
11	36	All 5-10/ Face our trette wi	-0= 4.7/ NIE
12	37		10 - 7-10/ EHE
13	36	4 HT WI = 65.71 , HT STACK CTS = 81.82	A - LIELENE
14	35	\$ 11 DOI - 01-77 19 3416 E-3-01 DO	
16	440		
17	41	LONDIN HT SHALL WB	
18	42	Dung truck stoke wo to HTS+ANTES= 74.75 +PP.	My
19	42		-
20	411	os hefre & spead 31.55 mg/L	
21			
22		END DAME 1145	
23			
24			
25			
26			
27			
28			
29			44
30			

S-0709 I-10 = 73-75 -184 CD - 50-50-00 Lyo 1604 011

L	Louisiana Department of Transportation & Development					
Project Name:	I-10 Widening (LA 415 to Essen Lane) Baton Rouge, LA					
Site:	2280 Baywood Ave					
Description:	Single family residence					
SLM Filename:	SLM_0001604_LxT_1604_017.02					
Date: 3/22/2018						

Period #	Time Start	Leq	Lmax	Delete?	Notes
1	9:50 AM	75.5	86.7	X	HT Horn EB = 86
2	9:51 AM	71.1	72.7		
3	9:52 AM	71.7	74.9		
4	9:53 AM	73.9	81.5		
5	9:54 AM	73.7	76.6		
6	9:55 AM	72.9	76.1		
7	9:56 AM	72.5	74.7		
8	9:57 AM	74.9	83.6	X	HT WB Stack $= 83$
9	9:58 AM	73.2	75.5		
10	9:59 AM	72.7	76.2		
11	10:00 AM	72.7	75.8		
12	10:01 AM	73.2	75.6		
13	10:02 AM	74.8	83.9	X	Siren $EB = 81-82$
14	10:03 AM	73.1	74.6		
15	10:04 AM	73.7	78.5		
16	10:05 AM	73.2	75.8		
17	10:06 AM	73.0	75.0		
18	10:07 AM	73.2	76.7		
19	10:08 AM	74.8	82.4		4-5 motos wb = 82
20	10:09 AM	72.7	75.2		
21	10:10 AM	74.6	79.5	X	End Data
	Leq	73.1			

Noise	Measurement	Data	Shoot

	122/18	SEE PREVIOUS	
a		SLITER	
	2280		
iress :	2200 BM WO.	0	
ather			
Te	mp 50-52", Si	yeary	
Wi	coren -> 2	Other	
	ection	Hotes	Space
-	1# 1604	Cal@ // Y,O Cal Check=	ws
#	Time Start	Description	_
1	950	Al 5-10 NOISE HT HOREN ESS-82	25-30
2	57	Will over must be with the contract of E	
3	2,5	HT 103=75	300-35
4	53 5Y	HT Stack 48=73-44 Autos aly = 72	40-45
5	955		422
6	731	HT US STOLE: 76	- î
7	57	the state of the s	47
8		HT WS stace 75 , HT WS STARE 83 :- WO : CARA	-11
9	55	5 10 Skely 72.74	-11
10	1000		-11
11	01		-16
12	02	1+5 SPORE = 74-74 SINON EB = 81-82?	-11
13	03	Ange culti- 15 Prost 14: 14	-11
14	04	LOUDEN A SPACE 18 - 78	50-15
15	1005	Loight in Street and 10	20-23
16	v.	Ht 60-75 map = Cotton	+1
17	07	(I) co. 1)	11
18	08	4-5 cml protes in5=82	11
20	09	4.1 ha bans 1.A. 05	1
21	-		1
22		END DATHE 1010	1
23			1
24			1
25			1
26			1
27			1
28			1
-			

Hot man HT Accol moise / Free Flow

Lx71604.017





2280 Baywood Ave

Louisiana Department of Transportation & Development										
Project Name:	I-10 Widening (LA 415 to Essen Lane) Baton Rouge, LA									
Site:	2808 Fiero St									
Description:	Single family residence									
SLM Filename:	SLM 0001604			12.02						
Date:	3/21/2018									
	Date. 0/21/2010									
Period #	Time Start	Leq	Lmax	Delete?	Notes					
1	12:25 PM	74.7	76.9							
2	12:26 PM	74.1	76.1							
3	12:27 PM	75.9	81.3							
4	12:28 PM	74.5	83.6							
5	12:29 PM	73.7	83.4							
6	12:30 PM	75.0	80.0							
7	12:31 PM	73.9	77.1							
8	12:32 PM	73.9	76.2							
9	12:33 PM	73.9	75.7							
10	12:34 PM	74.2	77.2	X						
11	12:35 PM	73.7	76.9	X	WB slowed -> stop and go					
12	12:36 PM	74.6	79.4	X	WB slowed -> stop and go					
13	12:37 PM	74.0	78.2	X	WB slowed -> stop and go					
14	12:38 PM	72.0	75.4	X	WB slowed -> stop and go					
15	12:39 PM	73.8	75.9	X	WB slowed -> stop and go					
16	12:40 PM	73.1	76.0	X						
17	12:41 PM	73.1	76.6	X						
18	12:42 PM	72.5	77.3	X						
19	12:43 PM	72.9	74.8	X						
20	12:44 PM	72.5	75.8	X	WB stop and go					
21	12:45 PM	72.3	75.2	X	WB stop and go					
22	12:46 PM	72.5	74.6	X	WB stop and go					
23	12:47 PM	73.3	80.1	X	WB stop and go					
24	12:48 PM	74.1	75.9	X	WB stop and go					
25	12:49 PM	73.8	77.0	X	WB stop and go					
26	12:50 PM	72.9	76.6	X						
27	12:51 PM	72.2	73.8	X	End Data					
	Leq	74.5								

Maica	Measurement	Data	Chant

I-10: LA415 to Essen Lane Improvements, Baton Rouge, LA E 17068 3/21/18 Date Site Sketch - 3' NOO. BARNIOL Site I70 05 -> Area Address 2808 Fino Por Feple Weather Temp 640F surry Wind 2-61 varylas Other Notes Direction RION/LD/N121# 16 44 Time Start Description 1225 All I'll make I forme the truther 22 LOW AT CB STATE SO 27 BED SAY NJ W6=81 LOWO IT STOCK CB, 24 74 Lones vol permo - 68 WIRD= 2-5/ NH 1270 51 32 33 9 34 10 1872 WB should - stop: 90 235 es free-PTow 36 12 37 13 38 35 240 41 17 42 18 into = 10-12 mbr 43 19 WB Stapped Straige 44 20 1245 21 46 22 47 48 49 25 1250 26 1206121 27 28

EB = 41 50 mp, ws : 10-57 mph

29

LyT 1604.612

Louisiana Department of Transportation & Development								
Project Name:	I-10 Widening (LA 415 to Essen Lane) Baton Rouge, LA							
Site:	2808 Fiero St	t						
Description:	Single family	reside	nce					
SLM Filename:	SLM_000160	04_LxT	1604_01	8.03				
Date:	3/22/2018							
Period #	Time Start	Leq	Lmax	Delete?	Notes			
1	10:30 AM	75.4	77.3					
2	10:31 AM	74.9	77.8					
3	10:32 AM	73.7	75.1					
4	10:33 AM	74.1	76.5					
5	10:34 AM	75.4	81.3					
6	10:35 AM	74.2	76.1					
7	10:36 AM	77.0	82.6	X	WB ambulance siren 82-83			
8	10:37 AM	74.4	76.9					
9	10:38 AM	75.5	80.7					
10	10:39 AM	74.9	76.9					
11	10:40 AM	76.1	81.0					
12	10:41 AM	75.0	81.2					
13	10:42 AM	74.2	81.0					
14	10:43 AM	76.2	82.0					
15	10:44 AM	74.7	76.4					
16	10:45 AM	75.4	80.9					
17	10:46 AM	74.7	78.7					
18	10:47 AM	74.5	76.7					
19	10:48 AM	73.9	78.2					
20	10:49 AM	74.2	77.4					
21	10:50 AM	74.2	75.1	X	End Data			
	Leq	74.9						

Area		TARC ELISTINE
Address	2808 FIONE	7606 6
Weather To W	emp to \$1.58° F	164 @ 2008 pino 100 Other
RION(DN1	rection 21# 1604	Notes Cal Check=
#	Time Start	Description
1	1030	I . 10 the Flow Both Directory 50-60 Wh wive. 2.5/ EN
2	21	I-10-73-75 consistantly HT STALLERS = 78
3	32	Ats all = 71-72
4	33	HT 13 . 76
5	34	AT ET STOCK- SU-SI C FILM AD WATE CHA
6	1035	
7	26	Al I-10 MUSE / FRUE FLOW TRAFFIC, HT 83-82-83 WS ANS
-8	27	
9	38	: So It ED EN COMP = 81
10	35	ETS Slung Dan Yough (est) still mover just slower
11	1040	It TB STATE & 81 ES SPORT UP MAIN 5055
12	41	Local HT = 77-75 AT STALL ED, LIND = 2.6/CM
13	42	()
14	43	LOND ITT STANCEB WAD-CARM
15	44	
16	1045	\$10 CONSCIENT 77-75, HT STACK 53=81
17	46	
18	47	
19	48	
20	45	EB Slover 35-40 WPL
21		
22		END DAME 1050 ELA
23		
24		
25		
26		
27		

L+T1604.8 18 LAT 1606. 1218

No1





2808 Fiero St

Louisiana Department of Transportation & Development									
Project Name:	I-10 Widening (LA 415 to Essen Lane) Baton Rouge, LA								
Site:	2012 Estates Rd								
Description:	Single family residence								
SLM Filename:	SLM_000160			03.01					
Date:	3/21/2018								
Period #	Time Start	Leq	Lmax	Delete?	Notes				
1	12:28 PM	74.8	79.4						
2	12:29 PM	73.2	75.6						
3	12:30 PM	75.1	78.0						
4	12:31 PM	74.0	75.6						
5	12:32 PM	74.0	77.4						
6	12:33 PM	73.4	75.1						
7	12:34 PM	74.6	77.7	X	I-10 WB stop & go				
8	12:35 PM	73.5	75.8	X	I-10 WB stop & go				
9	12:36 PM	73.9	79.8	X	I-10 WB stop & go				
10	12:37 PM	73.1	76.4	X	I-10 WB stop & go				
11	12:38 PM	72.1	75.5	X	I-10 WB stop & go				
12	12:39 PM	73.8	76.9	X	I-10 WB stop & go				
13	12:40 PM	73.1	75.8	X	I-10 WB stop & go				
14	12:41 PM	72.4	74.7	X	I-10 WB stop & go				
15	12:42 PM	74.1	83.8	X	I-10 WB stop & go				
16	12:43 PM	73.2	74.7	X	I-10 WB stop & go				
17	12:44 PM	72.9	75.7	X	I-10 WB stop & go				
18	12:45 PM	72.7	76.3	X	I-10 WB stop & go				
19	12:46 PM	73.6	76.3	X	I-10 WB stop & go				
20	12:47 PM	73.2	77.2	X	I-10 WB stop & go				
21	12:48 PM	74.8	80.7	X	I-10 WB stop & go				
22	12:49 PM	72.8	76.2	X	I-10 WB stop & go				
23	12:50 PM	74.9	79.1	X	I-10 WB stop & go				
24	12:51 PM	72.4	75.5	X	I-10 WB stop & go				
25	12:52 PM	74.0	77.1	X					
26	12:53 PM	75.2	86.2	X					
27	12:54 PM	75.6	86.2	X					
28	12:55 PM	72.9	75.5	X					
29	12:56 PM	73.0	76.8	X					
30	12:57 PM			X	End Data				
	Leq	74.1			1				
	--								

Males	Measurement	Date	Chast
NOISE	Measurement	Data	Sheet

I-10: LA415 to Essen Lane Improvements, Baton Rouge, LA

Date 3	121118	Site Sketch
Area		
Address	2012 Estates (b. Ermsk
Wi	mp nd rection	Notes 2012 2365 Other
#	Time Start	1215 goner Ly7 Description
1		more on cours (outstand) moderness
2		
3		
4		
- 5		4 See pares for 2808 FIME
6		
7		
8	1275	WO 1-10 Day; 501
9		
10		
11		U
12		
13		
14		
15	1257	END DAM
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28		
29		
20		

Louisiana Department of Transportation & Development									
Project Name:	I-10 Widenin	I-10 Widening (LA 415 to Essen Lane) Baton Rouge, LA							
Site:	2012 Estates	2012 Estates Rd							
Description:	Single family	reside	nce						
SLM Filename:	SLM_000160	6_LxT	_1606_00	04.01					
Date:	3/22/2018								
Period #	Time Start	Leq	Lmax	Delete?	Notes				
1	10:30 AM	73.2	75.3						
2	10:31 AM	74.7	80.7						
3	10:32 AM	73.0	75.5						
4	10:33 AM	73.7	76.0						
5	10:34 AM	73.5	75.7						
6	10:35 AM	73.5	76.1						
7	10:36 AM	75.4	82.7	X	Ambulance Siren				
8	10:37 AM	73.3	76.5						
9	10:38 AM	73.9	77.9						
10	10:39 AM	74.2	76.7						
11	10:40 AM	74.2	78.1						
12	10:41 AM	74.8	81.1						
13	10:42 AM	73.3	76.9						
14	10:43 AM	74.9	80.1						
15	10:44 AM	74.0	78.7						
16	10:45 AM	73.9	77.9						
17	10:46 AM	73.3	76.3						
18	10:47 AM	73.3	75.2						
19	10:48 AM	77.1	87.8						
20	10:49 AM	73.8	76.7						
21	10:50 AM	73.4	76.5	X	End Data				
	Leq	74.1							

Area		TARC ELISTINE
Address	2808 FIONE	7606 6
Weather To W	emp to \$1.58° F	164 @ 2008 pino 100 Other
RION(DN1	rection 21# 1604	Notes Cal Check=
#	Time Start	Description
1	1030	I . 10 the Flow Both Directory 50-60 Wh wive. 2.5/ EN
2	21	I-10-73-75 consistantly HT STALLERS = 78
3	32	Ats all = 71-72
4	33	HT 13 . 76
5	34	AT ET STOCK- SU-SI C FILM AD WATE CHA
6	1035	
7	26	Al I-10 MUSE / FRUE FLOW TRAFFIC, HT 83-82-83 WS ANS
-8	27	
9	38	: So It ED EN COMP = 81
10	35	ETS Slung Dan Yough (est) still mover just slower
11	1040	It TB STATE & 81 ES SPORT UP MAIN 5055
12	41	Local HT = 77-75 AT STALL ED, LIND = 2.6/CM
13	42	()
14	43	LOND ITT STANCEB WAD-CARM
15	44	
16	1045	\$10 CONSCIENT 77-75, HT STACK 53=81
17	46	
18	47	
19	48	
20	45	EB Slover 35-40 WPL
21		
22		END DAME 1050 ELA
23		
24		
25		
26		
27		

L+T1604.8 18 LAT 1606. 1218

No1





2012 Estates Rd

Louisiana Department of Transportation & Development						
Project Name:	Project Name: I-10 Widening (LA 415 to Essen Lane) Baton Rouge, LA					
Site:	Site: 2226 Estates Rd					
Description:	Description: Single family residence					
SLM Filename:	SLM_0001605_LxT_1605_005.02					
Date:	3/21/2018					

Period #	Time Start	Leq	Lmax	Delete?	Notes
1	12:25 PM	73.7	75.9		
2	12:26 PM	73.6	77.4		
3	12:27 PM	74.2	77.9		
4	12:28 PM	73.1	77.8		
5	12:29 PM	72.0	75.0		
6	12:30 PM	74.0	77.4		
7	12:31 PM	73.0	76.1		
8	12:32 PM	72.9	75.6		
9	12:33 PM	72.3	74.0		
10	12:34 PM	72.7	75.7	X	stop traffic on WB lanes (5 mph)
11	12:35 PM	72.0	75.8	X	
12	12:36 PM	72.3	75.7	X	traffic speed up on WB (30 mph)
13	12:37 PM	71.7	74.9	X	slow down/stop traffic on WB (0-5 mph)
14	12:38 PM	70.5	73.2	X	
15	12:39 PM	72.2	74.7	X	
16	12:40 PM	71.5	74.8	X	
17	12:41 PM	71.2	73.8	X	
18	12:42 PM	71.1	75.4	X	
19	12:43 PM	71.4	73.6	X	
20	12:44 PM	71.8	75.1	X	
21	12:45 PM	70.7	73.1	X	
22	12:46 PM	71.6	74.1	X	
23	12:47 PM	71.6	75.4	X	
24	12:48 PM	73.6	77.8	X	
25	12:49 PM	72.2	77.2	X	
26	12:50 PM	72.9	77.0	X	ambulance siren on WB
27	12:51 PM	71.0	73.0	X	End Data
	Leq	73.2			

Date 3	121/18	Site Sketch
Site E	states Rd.	
	Fant yad/ div	J-10 =
Address	2226 Estates	Pd. =3
Weather		February Rd.
Te	emp 670	
W	find	Other
D	irection	Notes Zzzik
RION/LD/N1	21# 1605 - 005	Cal@ Cal Check=Fico 54.
#	Time Start	Description
1	12:245 pm	
2	12:26	
3	12:27	
4	12:28	
5	12:29	
6	72:36	
7	12:31	
8	12:32	
9	12:33	
10	12:34	slandown / step traffic on WB knes (5mpl)
11	12.35	Jan
12	12:34	talic speak was UB (30 mgh)
13	12:37	traffic special up on WB (30 mgh) Shu down / Stop Haffic on WB (0-5 mgh)
14	12:38	The same of the sa
15	12:39	
16	12:40	
17	12:41	
18	12:42	
19	12:43	
20	12: 44	
21	12:45	
22	12:46	
23	12:47	
24	12: 48	
25	12:49	
26	12:50	anhulare sim on WB
27		W. 184 (20) 10 W. 10
28		
29		
200		

Louisiana Department of Transportation & Development						
Project Name: I-10 Widening (LA 415 to Essen Lane) Baton Rouge, LA						
Site: 2226 Estates Rd						
Description: Single family residence						
-						

SLM Filename: | SLM_0001605_LxT_1605_009.02

Date: 3/22/2018

Period #	Time Start	Leq	Lmax	Delete?	Notes
1	10:30 AM	72.6	74.7		
2	10:31 AM	72.8	75.4		
3	10:32 AM	72.0	74.3		
4	10:33 AM	72.6	75.0		
5	10:34 AM	72.5	74.4		
6	10:35 AM	72.0	74.1		
7	10:36 AM	73.0	77.2		
8	10:37 AM	74.3	81.4	X	ambulance siren on WB
9	10:38 AM	72.9	74.6		
10	10:39 AM	73.0	74.5		
11	10:40 AM	73.5	76.2		
12	10:41 AM	72.7	75.2		
13	10:42 AM	72.1	76.2		
14	10:43 AM	74.4	81.9		
15	10:44 AM	73.2	76.9		
16	10:45 AM	72.8	77.4		
17	10:46 AM	72.9	76.3		
18	10:47 AM	72.7	74.5		
19	10:48 AM	73.5	80.7		
20	10:49 AM	72.7	74.9		
	Leq	72.9			

Date 3	12/18	Site Sketch	
Site	Estates St.	E WS I-10.	
Area	fort yard	3 8	_
Address	2226 Estates	->	hain link
Weather	sunny		
T	emp 62°	Other	
v	rina	Notes Other	
	irection		
RION/LD/N1	1100	Cal@ Cal Check=	
#	Time Start	Description	
1	10:30 am		
2	10:31		
3	10:32		
4	0:33		
-5-	10:34		
- 6	10:35	1.19	
7	10:36	ambulance sizes on WB	
-8	10:37		
9	10:38		
10	10:39		
- 11	10:40		
12	10:41		
13	10:42		
14	10: 43		
15	10:44		
16	10:45		
17	10:46		
18	10:47		
19	10:48		
20	10:49		
21			
22			
23			
24			
25			
26			
27			
28			
29			



2226 Estates Rd

Louisiana Department of Transportation & Development										
Project Name:	I-10 Widening (LA 415 to Essen Lane) Baton Rouge, LA									
Site:	1159 E Harrison St									
Description:	Single family	Single family residence								
SLM Filename:	SLM_000160	5_LxT	_1605_00	03.03						
Date:	3/21/2018									
Period #	Time Start	Leq	Lmax	Delete?	Notes					
1	10:31 AM	73.7	76.8							
2	10:32 AM	73.9	77.8							
3	10:33 AM	73.2	75.9							
4	10:34 AM	73.8	75.1							
5	10:35 AM	73.4	75.7							
6	10:36 AM	73.2	75.3							
7	10:37 AM	73.8	75.9							
8	10:38 AM	73.8	77.2							
9	10:39 AM	72.5	74.4							
10	10:40 AM	73.0	75.7							
11	10:41 AM	73.9	78.5							
12	10:42 AM	72.4	75.4							
13	10:43 AM	72.8	76.9							
14	10:44 AM	72.5	74.9							
15	10:45 AM	74.3	81.5							
16	10:46 AM	74.1	79.7							
17	10:47 AM	72.8	74.5							
18	10:48 AM	73.2	75.6							
19	10:49 AM	73.3	75.7							
20	10:50 AM	73.9	77.2							
21	10:51 AM	73.1	74.5	X	End Data					
	Leq 73.4									

Date 3	121/18	Site Sketch J-ID
Site	lirginia St @ Harris	St.
Area	front vard	- chain lin
Address		
		E Horison St.
Weather	SLAAN	b. Illeard
Т	emp 57°	XX Vigina St.
٧	Vind /	Other
	Direction	Notes
RION/LD/N	121# 1605 - 003	Cal@ Cal Check=
#	Time Start	Description
1	10:30 am	
2	10:31	
3	10:32	
4	10:33	
- 5	10:34	
-6	10:35	
7	10:36	
8	10:37	
9	10:38	
10	10:39	
11	10:40	
12	10:41	
13	10:42	
14	10:43	
15	10:44	
16	10:45	That is a little of the state o
17	10:46	
18	10:47	
19	10:48	
20	10:49	
21	10:50	
22	10:51	
23		
24		
25		
26		
27		
28		
29		
30		

Louisiana Department of Transportation & Development										
Project Name:	I-10 Widenin	I-10 Widening (LA 415 to Essen Lane) Baton Rouge, LA								
Site:	1159 E Harrison St									
Description:	Single family residence									
SLM Filename:	SLM_000160	SLM 0001605 LxT 1605 007.02								
Date:	3/21/2018									
Period #	Time Start	Leq	Lmax	Delete?	Notes					
1	2:40 PM	69.6	77.6							
2	2:41 PM	63.7	67.9							
3	2:42 PM	67.3	71.4							
4	2:43 PM	69.5	73.6							
5	2:44 PM	74.2	81.7							
6	2:45 PM	69.3	71.8							
7	2:46 PM	66.7	71.6							
8	2:47 PM	67.9	70.4							
9	2:48 PM	69.2	72.2							
10	2:49 PM	71.3	75.7							
11	2:50 PM	69.5	72.8							
12	2:51 PM	68.5	72.2							
13	2:52 PM	66.2	70.9							
14	2:53 PM	65.0	70.1							
15	2:54 PM	68.6	72.4							
16	2:55 PM	72.8	80.9							
17	2:56 PM	70.7	74.4							
18	2:57 PM	72.4	77.5							
19	2:58 PM	67.4	69.8							
20	2:59 PM	66.9	68.9							
21	3:00 PM	66.9	69.2							
22	3:01 PM	67.4	71.8							
23	3:02 PM	67.8	70.9							
24	3:03 PM	64.4	67.8							
25	3:04 PM	65.6	67.4							
26	3:05 PM	64.4	64.9	X	End Data					
Leq 69.1										

Date 3	121118	Site Sketch
Site	iginia St @ He	vissa St I-10 emin
	front yard	B. Herison St
Address		E. Her
W	69° Sway emp //ind	Notes 17 Virginis 5+ Other
RION/LD/N		Cal@ Cal Check=
#	Time Start	Description
1	2:40 pm	
2	2:41	EB traffic stopped
3	2:42	EB traffic going (35 uph)
4	2: 43	3. 3
5	2:44	
6	2:45	
7	2:46	
8	2:47	
9	2:48	
10	2:49	
11	2:50	
12	2:51	
13	2:52	EB taffic stopped
14	2:53	and and an in the second
15	2:.54	EB traffic gains (30-40 moh)
16	2:,55	The same of the sa
17	2:54	
18	2:57	
19	2:58	
20	2:59	
21	5:00	
22	3:01	
23	3:07	
24	3:03	
25	3:04	
26	3:05	
27		
28		
29		

Louisiana Department of Transportation & Development										
Project Name:	I-10 Widening (LA 415 to Essen Lane) Baton Rouge, LA									
Site:	1159 E Harrison St									
Description:	Single family	Single family residence								
SLM Filename:	SLM_000160	05_LxT	_1605_01	10.00						
Date:	3/22/2018									
Period #	Time Start	Leq	Lmax	Delete?	Notes					
1	11:15 AM	74.2	79.0							
2	11:16 AM	74.7	79.8							
3	11:17 AM	75.1	77.0							
4	11:18 AM	74.1	77.5							
5	11:19 AM	74.0	76.6							
6	11:20 AM	74.5	76.0							
7	11:21 AM	75.2	81.5	X	ambulance siren on EB					
8	11:22 AM	73.6	75.8							
9	11:23 AM	74.6	78.6							
10	11:24 AM	73.9	76.0							
11	11:25 AM	73.8	76.0							
12	11:26 AM	74.8	76.7							
13	11:27 AM	73.9	77.3							
14	11:28 AM	74.1	75.8							
15	11:29 AM	75.4	77.5							
16	11:30 AM	74.0	76.4							
17	11:31 AM	72.9	74.5							
18	11:32 AM	72.5	75.4							
19	11:33 AM	74.0	76.0		-					
20	11:34 AM	74.1	76.2							
21	11:35 AM	74.6	75.7	X	End Data					
	Leq 74.2									

Date 3	122/18	Site Sketch	
Site V		Herisan E WB 1-10	
Area	P . C.	3 55	
	tent yard		chain line
Address	1159 Etlaris	Son St. E Herrison St.	
Weather	Surry		
Т	emp 65°	6:11boarda T	
•	rina	Notes $\mathcal{N}(X)$	
D	irection	4.1	
	121# 1605-010	Cal@ Cal Check=	
#	Time Start	Description	
1	11:15 am		
2	11:16		
3	11:17		
4	11:18		
- 5	11:19		
-6-	11:20	11 /	
7	11.21	anbulance siver on EB	
- 8	11:22		
9	11:23		
10	11:24		
- 11	11:25		
12	11: Zle		
13	11:27		
14	11:28		
15	4:29		
16	11:30		
17	11:31		
18	11:32		
19	11: 33		
20	(1.24		
21			
22		,	
23			
25			
26			
27			
28			
29			
734			



1159 E Harrison

Louisiana Department of Transportation & Development					
Project Name:	Project Name: I-10 Widening (LA 415 to Essen Lane) Baton Rouge, LA				
Site:	Site: 2285 Elissalde St				
Description:	Description: Single family residence				
SLM Filename:	SLM Filename: SLM_0001605_LxT_1605_004.03				
Date: 3/21/2018					

Period #	Time Start	Leq	Lmax	Delete?	Notes
1	11:24 AM	69.1	73.5		
2	11:25 AM	70.6	77.8		
3	11:26 AM	69.4	72.8		
4	11:27 AM	69.8	73.0		
5	11:28 AM	70.0	77.2		
6	11:29 AM	69.1	72.5		
7	11:30 AM	69.4	72.8		
8	11:31 AM	70.3	75.4		
9	11:32 AM	69.6	71.4		
10	11:33 AM	71.1	77.9		
11	11:34 AM	68.4	70.8		
12	11:35 AM	69.6	73.2		
13	11:36 AM	69.2	72.2		
14	11:37 AM	67.9	69.4		
15	11:38 AM	70.7	77.3		
16	11:39 AM	68.8	71.4		
17	11:40 AM	69.3	73.0		
18	11:41 AM	69.2	74.1		
19	11:42 AM	69.1	71.7		
20	11:43 AM	69.1	72.2	X	Slow down on EB lanes
21	11:44 AM	68.6	71.9	X	End Data
	Leq	69.6			

Date 3	/21/18	Site Sketch	
Site	Eliscalde St.	3 = =	
Area Dead End, 2nd driveway Address		kiremy 7-10 =	
		Personal de chein	Jink
Ĭ	Temp (33°) Wind	Notes Other Land are by	ridee
RION/LD/N	Direction N121# 1605 - 00	Cal Check=	
#	Time Start	Description	
1	11:24:21 am		
2	11:25		
3	11:26		
4	11:27		
- 5	11:28		
- 6	11:29		
7	11:30		
- 8	11: 31		
9	11:32		
10	11:33		
11	11: 34		
12	11:35		
13	11:36		
14	11:37		
15	11:38		
16	11:39		
17	11:40		
18	11:41		
19	11:42		
20	11:43	Sky down on EB knes	
21	11:44		
- 22	11:45		
23			
24			
25			
26			
27			
28			
29			



2285 Elissalde St

Louisiana Department of Transportation & Development						
Project Name:	I-10 Widening (LA 415 to Essen Lane) Baton Rouge, LA					
Site:	2244 Ebony S	St				
Description:	Single family	reside	nce			
SLM Filename:	SLM_000160	05_LxT	_1605_00	08.02		
Date:	3/22/2018					
	•					
Period #	Time Start	Leq	Lmax	Delete?	Notes	
1	9:50 AM	71.1	78.4			
2	9:51 AM	70.6	76.8			
3	9:52 AM	71.0	73.2			
4	9:53 AM	73.5	81.7			
5	9:54 AM	72.6	75.2			
6	9:55 AM	71.8	75.7			
7	9:56 AM	71.7	74.5			
8	9:57 AM	73.1	78.6			
9	9:58 AM	72.0	76.0			
10	9:59 AM	71.8	74.9			
11	10:00 AM	72.2	77.6			
12	10:01 AM	72.3	74.9			
13	10:02 AM	73.4	79.6			
14	10:03 AM	72.4	76.8			
15	10:04 AM	72.3	80.2			
16	10:05 AM	72.4	75.3			
17	10:06 AM	71.9	74.0			
18	10:07 AM	72.3	76.1			
19	10:08 AM	75.4	86.7			
20	10:09 AM	71.6	74.3			
21	10:10 AM	72.2	74.1	X	End Data	
	Leq	72.4				

"unbading seni at Elissalde St. location"

Date	3/22/18	Site Sketch		
C14				

Site Ebany St.	
Area deaderd residential	4
Address 2244 Ebony St.	€ I-10 EB
Weather SMANY	3 Wo _ 6' woode
Temp 60° Wind	Other
Direction	Notes for the flow traffic

	Direction	110100	Il colonos
ON/LD/	V121# 1605 -008	Cal@	1 1 Cai Check=
#	Time Start	Descripti	on
1	9:50 am		
2	9:51		
3	9:52		
4	9:53		
-5	9:54		
6	9:55		
7	9:56		
8	9:57		
9	9:58		
10	9:59		
11	10:00		
12	10:01		
13	10:02		
14	10:03		
15	16:04		
16	10:05		
17	D: 66		
18	b: 67		
19	6:08		
20	10:09		
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			



2244 Ebony St

Louisiana Department of Transportation & Development							
Project Name:	I-10 Widenin	I-10 Widening (LA 415 to Essen Lane) Baton Rouge, LA					
Site:	1417 E Harri	ison St					
Description:	Single family	reside	nce				
SLM Filename:	SLM_000160	5_LxT	_1605_0	02.03			
Date:	3/21/2018						
Period #	Time Start	Leq	Lmax	Delete?	Notes		
1	9:30 AM	72.1	77.8				
2	9:31 AM	71.7	76.0				
3	9:32 AM	71.0	72.7				
4	9:33 AM	72.5	78.0				
5	9:34 AM	71.3	75.7				
6	9:35 AM	70.6	72.0				
7	9:36 AM	71.5	75.1				
8	9:37 AM	71.9	74.7				
9	9:38 AM	70.5	72.6				
10	9:39 AM	72.6	80.2				
11	9:40 AM	72.7	79.7				
12	9:41 AM	70.9	73.3				
13	9:42 AM	71.7	77.4				
14	9:43 AM	71.3	75.6				
15	9:44 AM	71.9	74.4				
16	9:45 AM	70.6	73.6				
17	9:46 AM	69.3	71.1	X			
18	9:47 AM	69.7	71.9	X			
19	9:48 AM	70.2	74.4	X			
20	9:49 AM	67.7	71.6	X	traffic slow down to a crawl		
21	9:50 AM	68.5	70.4	X	End Data		
	Leq	71.6					

Site 3	/21/18	Site Sketch
Co	volina St.	signic table billband I-10=
Area	Corner lost by p	signic-table village
Address		4
		E. Henrison
Weather	Temp 57"	E. Henrism Other
V	Vind	/§/ Other
		Notes free flow traffic conditions
]	Direction	
#	1121# 1605.002 Time Start	Cai@ Cal Check= Description
	0.0.	Description
1	9:30 am	
2	9:32	
3	9:33	
5	9:34	
6	9:35	
7	9:36	
8	9:37	
9	9:38	
10	9:39	
11	9:40	
12	9:41	
13	9:42	
14	9:43	
15	9:44	
16	9:45	
17	9:46	
18	9:47	
19	9:48	
20	9:49	slaw down to a convil/stop traffic condition WB
21	9:50	
22		
23		
24		
25		
26		
27		
28		
29		
30		

Louisiana Department of Transportation & Development							
Project Name:	I-10 Widenin	I-10 Widening (LA 415 to Essen Lane) Baton Rouge, LA					
Site:	1417 E Harri	ison St					
Description:	Single family	reside	nce				
SLM Filename:	SLM_000160	5_LxT	_1605_00	06.01			
Date:	3/21/2018						
Period #	Time Start	Leq	Lmax	Delete?	Notes		
1	2:05 PM	67.9	72.1				
2	2:06 PM	67.6	70.5				
3	2:07 PM	68.5	72.5				
4	2:08 PM	71.1	78.6				
5	2:09 PM	68.9	76.8				
6	2:10 PM	67.0	71.4				
7	2:11 PM	68.8	74.1				
8	2:12 PM	71.4	77.7				
9	2:13 PM	68.9	75.1				
10	2:14 PM	69.6	75.4				
11	2:15 PM	67.4	69.6				
12	2:16 PM	69.7	75.3				
13	2:17 PM	69.5	74.4				
14	2:18 PM	70.3	76.7				
15	2:19 PM	68.0	70.6				
16	2:20 PM	67.7	71.5				
17	2:21 PM	73.8	84.9	X	(data anomaly)		
18	2:22 PM	69.9	80.5				
19	2:23 PM	68.9	73.3				
20	2:24 PM	68.9	74.3				
21	2:25 PM	71.5	77.8	X	train whistle; End Data		
Leq		69.1					

Date 3	/21/18	Site Sketch
Cov	rolina St.	I-10
Area	acount lot by +	the richictable
Address	,	1: 11 ward
-		
Weather To	emp G7	(A)
W	/ind	Notes (1) Other
D	irection	Hotes You IN
RION/LD/N1	121# 1605 - 00 (0	Cal@ Cal Check=
#	Time Start	Description
1	2:05 pm	
2	2:04	
3	2:07	
4	2:08	
- 5	2:09	
- 6	2:10	
7	2:11	
- B	2: 12	
9	2:13	
10	R= 14	
11	2:15	
12	2:16	
13	2:17	
14	2: 18	
15	2:19	
16	1:20	
17	2:21	
18	2:22	
19	2:23	
20	2:.24	
21	2:25	train whistle
22		
23		
24		
25		
26		
27		
28		
29		
30		



1417 E Harrison

Lo	ouisiana Depai	rtment	of Trans	oortation & Developm	nent
Project Name:	I-10 Widenin	g (LA	415 to Es	sen Lane) Baton Roug	ge, LA
Site:	2643 Yazoo S	St			
Description:	Single family	reside	nce		
SLM Filename:	SLM_000160	04_LxT	_1604_00	07.03	
Date:	3/21/2018				
					_
Period #	Time Start	Leq	Lmax	Delete?	Notes
1	6:02 AM	72.2	73.2		
2	6:03 AM	72.7	76.6		
3	6:04 AM	72.6	74.4		
4	6:05 AM	72.8	74.7		
5	6:06 AM	73.5	82.3	X	Dog Barking
6	6:07 AM	71.5	72.9		
7	6:08 AM	73.0	73.9		
8	6:09 AM	72.8	73.8		
9	6:10 AM	72.1	73.7		
10	6:11 AM	73.0	75.0		
11	6:12 AM	71.7	73.4		
12	6:13 AM	71.6	73.0		
13	6:14 AM	71.9	73.6		
14	6:15 AM	72.7	80.4		
15	6:16 AM	72.0	73.1		
16	6:17 AM	72.2	73.1	X	End Data
	Leq	72.3			

Noise	Measurement	Data	Sheet
NOISE	Measurement	Data	SHEEL

		Noise Measurement Data Sheet
	I-10: LA41	5 to Essen Lane Improvements, Baton Rouge, LA
Date 5	12118	Site Sketch
Site	1 - 11 5	Comether zery mail &
Area		Mattan V-25 Some
_		any see
Address	2643 YAZOO	8. II LUT 1
Weather		1 2 7 100
Te	mp 48°f	2612 Int
WI	ind chuses	Notes Notes
	rection	
RION/ED/N12		Cal@ I/Y, o Cal Check=
#	Time Start	Description
1	0)	A11 1-10 MAX
2	04	muto mo=77 1+7 105=73
3	605	
4	Ub	Dr. Andrew
5	07	Des, something
- 6 7	08	
8	υÝ	
9	610	Consisoner 72-73 at 1955 milible
10	11	and - com
11	12	Since or 5.10 No effect
12	13	
13	14	
14	615	Lung muto = 80
15	14	
16	1 chy	, , , , , , , , , , , , , , , , , , ,
17		EN DAT C 617
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26		
27		
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2x-1604.007

Lo	ouisiana Depai	rtment	of Trans	portation &	z Development
Project Name:	I-10 Widenin	g (LA	415 to Es	sen Lane) l	Baton Rouge, LA
Site:	2685 Balis Da	r			
Description:	Single family	reside	nce		
SLM Filename:	SLM_000160	04_LxT	_1604_0	06.03	
Date:	3/21/2018				
Period #	Time Start	Leq	Lmax	Delete?	Notes
1	5:40 AM	67.6	69.3		
2	5:41 AM	68.4	69.7		
3	5:42 AM	67.3	68.6		
4	5:43 AM	68.6	70.1		
5	5:44 AM	67.8	69.3		
6	5:45 AM	67.8	68.9		
7	5:46 AM	67.0	68.7		
8	5:47 AM	66.7	68.0		
9	5:48 AM	67.1	68.5		
10	5:49 AM	67.8	69.5		
11	5:50 AM	66.6	68.1		
12	5:51 AM	67.0	68.0		
13	5:52 AM	67.2	68.7		
14	5:53 AM	67.5	68.7		
15	5:54 AM	68.0	69.1		
16	5:55 AM	68.2	68.5	X	End Data
	Leq	67.5			

LyT 1604.006

Lo	ouisiana Depart	ment of	Transpo	ortation & 1	Development
Project Name:	I-10 Widening	(LA 41	5 to Esse	n Lane) Ba	nton Rouge, LA
Site:	7210 Leyland	Ct			
Description:	Single family r	esidenc	ee		
SLM Filename:	SLM_0001604	_LxT_1	1604_015	.02	
Date:	3/22/2018				
		•			
Period #	Time Start	Leq	Lmax	Delete?	Notes
1	6:00 AM	63.8	65.5		
2	6:01 AM	64.2	66.4		
3	6:02 AM	63.7	66.1		
4	6:03 AM	65.4	67.5		
5	6:04 AM	64.6	67.2		
6	6:05 AM	64.3	67.4		
7	6:06 AM	64.3	66.7		
8	6:07 AM	64.2	65.6		
9	6:08 AM	64.8	66.9		
10	6:09 AM	66.1	70.0		
11	6:10 AM	63.6	66.5		
12	6:11 AM	64.6	67.6		
13	6:12 AM	64.2	66.0		
14	6:13 AM	64.9	67.0		
15	6:14 AM	65.6	69.7		
16	6:15 AM	63.3	63.9	X	End Data
	Leq	64.6			

		_		
MI-1	Managuranana	Data	Chas	
Noise	Measurement	Data	onee	Æ

I-10: LA415 to Essen Lane Improvements, Baton Rouge, LA

Date 3	122/18	Site Sketch
Area		zi-zyl well
	7210 LOYLAND	7230 18 7210
Weather		0
Te	mp 450 f, cu	ork Other
W	ind can	Other
Di	rection	
	21# 1604	Cal@ // Y. O Cal Check=
#	Time Start	Description
1	600	Free Ph I 10 63-64 trovally the this 65-66
2		
3	62	2.45
4	63	Low vol = 61 ds So went His @ coase = 64-67
- 5	by	
- 6	(05	
7	06	MI I-12 NOVE
- 8	07	
9	08	HT 60=46-67
10	09	It's we strace - 68-69 AT Accel general - to Suth = 64 69 & to S
11	610	
12	- U	
13	(2	1-12 topully 65-45 (t-10; Amplys mebbe trues for)
14	13	
15	14	Long ato was = 68-49
16		
17		
18		040 Dint C 6:15
19		
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west some father is most available some

LYT 1604,015

Lo	ouisiana Depai	rtment	of Trans	portation &	Development
Project Name:	I-10 Widenin	g (LA	415 to Es	sen Lane) l	Baton Rouge, LA
Site:	7607 Claret l	Dr			
Description:	Single Family	y Resid	ence		
SLM Filename:	SLM_000160)4_LxT	_1604_01	16.02	
Date:	3/22/2018				
Period #	Time Start	Leq	Lmax	Delete?	Notes
1	6:24 AM	64.0	64.7		
2	6:25 AM	64.9	67.3		
3	6:26 AM	64.9	66.8		
4	6:27 AM	64.9	66.0		
5	6:28 AM	65.3	69.7		
6	6:29 AM	64.6	66.7		
7	6:30 AM	65.1	67.7		
8	6:31 AM	64.9	66.1		
9	6:32 AM	64.8	65.7		
10	6:33 AM	65.9	67.3		
11	6:34 AM	66.0	67.4		
12	6:35 AM	65.9	67.1		
13	6:36 AM	65.4	66.5		
14	6:37 AM	66.1	67.9		
15	6:38 AM	65.6	67.2		
16	6:39 AM	66.0	66.6	X	End Data
	Leq	65.3			

	Noise	Measurement	Data	Sheet
I-10: LA415 to	Esser	Lane Improv	emen	ts, Bat

	I-10: LA41	5 to Essen Lane Improvements, Baton Rouge, LA	11
Date	3/22/18	Site Shetch	vell ezve
Site	0	ongreen.	O-A1€
Area		range rent	6-7 A
—		21 - 1	Show
Weather Te Wi	That char ind char	Notes Other	6
Di RION/LØ/N1:	rection	Cal@ // Y. U Cal Check=	
#	Time Start	Description	
1	624	Mr 712 Marss	
2	625	h. The beside	
3	21		
4	17	CARRY 64-450B	
5	28		
6	29		
7	630	Lunea 46h = 47-48	
8	Si		
9	JZ		
10	33		
11	24		
12	635	14	
13	14	trefic 1 64-46	
14	37	HT TO 5/55-67	
15	38		
16			
17			
18		the blac (34	
19			
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22			
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20			

3/21/2018 1125-1145	2285 Elissalde St 2280 Baywood Ave	Braddock 10-085 I-10 10-085 I-10 Perkins Road Street On- EB btw WB btw On-ramp to I-10 Acadian & Acadian & 10 WB EB Dalrymple Dalrymple	94 1513 1360 143	. 49 47 0	3 170 151 0	0 3 2 0	0 3 2 0	282 4539 4080 429	3 147 141 0	9 510 453 0	0 9 6 0	0 9 6 0	3 3 1	282 1513 1360 429	3 49 47 0	9 170 151 0	1	0 3 2 0
3/21/2018 1030-1050	1926 Maryland St 1159 E Harrison St E Polk BB Court	10-085 I-10 WB btw ramp to ramp Washington Dalrymple	1254 29 9	43 1	160 0	2 0	2 0	3762 87 2	129 3	480 0	15 0	0 9	3 1	1254 87 2	43 3	160 0		o
		10-085 I-10 EB btw Washington & Dalrymple	1284	47	202	2	8	3 3852	141	909	9	24	3	3 1284	47	202	•	7
3/21/2018 0930-0950	1853 Virginia St 1417 E Harrison St	On-ramp to II-10 WB Off-	21 36	0 0	0 2	0 0	0 0	63 108	0 0	9 0	0 0	0 0	1 1 1	63 108	0 0	9 0		
3/21/20	1853 1417 E	10-085 I-10 10-085 I-10 EB btw WB btw Washington Washington & Dairymple	1267 1326	32 34	203 146	11 5	2 2	3801 3978	96 102	609 438	33 15	9 9	3 3	1267 1326	32 34	203 146		
Measurement Time>	Receptor location>	Traffic Count Location>	Auto	MT MT	Count during HT	meas, Perlod Bus	Motorcycle	Auto	Count MT	extrapolated to HT	1 hr Bus	Motorcycle	# of lanes	Auto	MT MT	HOULING COUNTY	per rathe	Sac

Measurement Time>	t Time>	3/21/2018	1225-1250	3/2/	3/21/2018 1405-1425	425	3/2/	3/21/2018 1440-1505	505
Receptor location>	ation>	2226 Est 2808 Fi 2012 Est	tates Rd iero St tates Rd	11:	1854 Virginia St 1418 E Harrison St	ن ئة	111	1159 E Harrison St 1926 Maryland St	₹ 8t
Traffic Count Location>	ocation>	10-085 I-10 EB btw Acadian & Dalrymple	10-085 I-10 WB btw Acadian & Dalrymple	10-085 I-10 EB btw Washington & Dalrymple	10-085 I-10 WB btw Washington & Dalrymple	I-10 WB Off- ramp to McCalop	10-085 I-10 EB btw Washington & Dalrymple	10-085 I-10 WB btw Washington & Dalrymple	Braddock Street On- ramp to I-10 EB
	Auto	1750	1186	1505	1268	70	1593	1762	187
Count during	MT	26	25	42	40	0	44	44	1
Count during	HT	188	143	165	155	2	109	193	2
meds, reriod	Bus	4	2	11	9	1	10	3	5
	Motorcycle	2	0	3	1	0	5	1	0
	Auto	4200	2846	4515	3804	210	3823	4229	449
Count	MT	134	09	126	120	0	106	106	2
extrapolated to	HT	451	343	495	465	9	262	463	12
1 br	Bus	10	5	33	18	3	24	7	12
	Motorcycle	5	0	6	3	0	12	2	0
# of lanes	nes	3	3	3	3	1	3	3	1
	Auto	1400	949	1505	1268	210	1274	1410	449
House, Course	MT	45	20	42	40	0	35	32	2
nouny count	HT	150	114	165	155	9	87	154	12
alini lad	Bus	3	2	11	9	3	8	2	12
	Motorcycle	2	0	3	1	0	4	1	0

Measurement Time>	t Time>	3/2;	3/22/2018 0950-1010	010	3/22/2018	3/22/2018 1030-1050	3/2	3/22/2018 1115-1135	135
Receptor location>	ation>	22%	2280 Baywood Ave 2244 Ebony St	Ave t	2226 Estates Rd 2808 Fiero St 2012 Estates Rd	tates Rd iero St tates Rd	17.	1926 Maryland St 1159 E Harrison St E Polk BB Court	St St rt
Traffic Count Location>	ocation>	10-085 I-10 EB btw Acadian & Dalrymple	10-085 I-10 WB btw Acadian & Dalrymple	Perkins Road On-ramp to I 10 WB	10-085 I-10 EB btw Acadian & Dalrymple	10-085 I-10 WB btw Acadian & Dalrymple	10-085 I-10 EB btw Washington & Dalrymple	10-085 I-10 WB btw Washington & Dalrymple	Braddock Street On- ramp to I-10 EB
	Auto	1247	1324	116	1288	1339	1474	1252	121
tain b	MT	33	43	4	40	45	33	30	0
Source during	HT	128	142	1	173	151	189	153	1
meas, reriod	Bus	4	9	0	3	2	2	1	0
	Motorcycle	0	5	0	2	0	2	9	0
	Auto	3741	3972	348	3864	4017	4422	3756	363
Count	MT	66	129	12	120	135	66	06	0
extrapolated to	HT	384	426	3	519	453	267	459	3
1 hr	Bus	12	18	0	6	9	9	3	0
	Motorcycle	0	15	0	9	0	9	18	0
# of lanes	nes	3	3	1	3	3	3	3	1
	Auto	1247	1324	348	1288	1339	1474	1252	363
Hourthy Course	MT	33	43	12	40	45	33	30	0
nounty count	HT	128	142	3	173	151	189	153	3
alloi lad	Bus	4	9	0	3	2	2	1	0
	Motorcycle	0	5	0	2	0	2	9	0