Highway Noise Technical Report
FINAL
I-12 to Bush Environmental Impact Statement
USACE Permit No. MVN-2006-0037

Prepared for

United States Army Corps of Engineers, New Orleans District
and
Louisiana Department of Transportation and Development

March 2011

Prepared by
LPES, Inc., Engineering and Planning
14053 Lawnes Creek Road
Smithfield, VA 23430

<Intentionally Blank>

Contents

SECTION 1.0 Introduction 1
1.1 Noise Fundamentals 1
1.2 Regulatory Overview 2
SECTION 2.0 Existing Conditions 3
SECTION 3.0 Noise Assessment 7
3.1 Methodology 7
3.2 No Build Alternative 8
3.3 Alternative B/O 8
3.4 Alternative J 12
3.5 Alternative P 15
3.6 Alternative Q 17
3.7 Summary 19
SECTION 4.0 List of Preparers 21
SECTION 5.0 References 23
SECTION 6.0 Acronyms and Abbreviations 25
Attachment A: Noise Analysis Supporting Documentation 27

Tables

Table 1-1 Common Sound Levels 1
Table 1-2 DOTD Noise Abatement Criteria (NAC) 2
Table 2-1 Sound levels – Existing Conditions 5
Table 3-1 Sound Levels - No Build Alternative (2035) 8
Table 3-2 Noise Levels Associated with Outdoor Construction 9
Table 3-3. Sound levels – All Alternatives 10
Table 3-4 Minimum Cost for Noise Barriers – Alternative B/O 12
Table 3-5 Minimum Cost for Noise Barriers – Alternative J 13
Table 3-6 Minimum Cost for Noise Barriers – Alternative P 15

Table 3-7 Minimum Cost for Noise Barriers – Alternative Q 19

Table A-1 All Noise Sensitive Receptors in Alternative B/O (2035) 29

Table A-2 All Noise Sensitive Receptors in Alternative J (2035) 38

Table A-3 All Noise Sensitive Receptors in Alternative P (2035) 40

Table A-4 All Noise Sensitive Receptors in Alternative Q (2035) 45

Figures

Figure 2-1. Noise Receptors within One Mile of the Control of Access Portions of the Proposed Highways 4

Figure 3-1. Receptors with a Greater than 10 dBA Increase – Alternative B/O 11

Figure 3-2. Receptors with a Greater than 10 dBA Increase – Alternative J 14

Figure 3-3. Receptors with a Greater than 10 dBA Increase – Alternative P 16

Figure 3-4. Receptors with a Greater than 10 dBA Increase – Alternative Q 18

Figure A-1 Receptors with a Greater than 10 dBA Increase – Alternative BO(Aerial) 46

Figure A-2 Receptors with a Greater than 10 dBA Increase – Alternative P (Aerial) 47

Figure A-3 Receptors with a Greater than 10 dBA Increase – Alternative J (Aerial) 48

Figure A-4 Receptors with a Greater than 10 dBA Increase – Alternative Q(Aerial) 49

Figure A-5 All Control of Access Start and End Points (Aerial) 50

Figure A- 6 All Noise Sensitive Receptors (Aerial) 51

SECTION 1.0 INTRODUCTION

A quantitative, computer-based analysis of the effects of the proposed action on ambient noise levels was performed following the procedures of Louisiana Department of Transportation and Development (LADOTD) and Federal Highway Administration (FHWA). The analysis consisted of the evaluation of effects on potentially noise-sensitive sites along the project corridor extending from Bush, Louisiana to I-12. The general procedure used to assess these effects include determining noise levels through computer modeling and assessing effects by comparing future modeled noise levels to the LADOTD and FHWA criteria.

1.1 NOISE FUNDAMENTALS

Sound is a physical phenomenon consisting of minute vibrations that travel through a medium, such as air, and are sensed by the human ear. Noise is defined as any sound that is undesirable because it interferes with communication, is intense enough to damage hearing, or is otherwise intrusive. Human response to noise varies, depending on the type and characteristics of the noise, distance between the noise source and the receptor, receptor sensitivity, and time of day. Noise may interfere with communication, produce awakenings from sleep or, in some cases, damage hearing. Noise is often generated by activities essential to a community's *quality of life*, such as construction or vehicular traffic.

Sound varies by both intensity and frequency. Sound levels, described in decibels (dB), are used to quantify the sound intensity. The dB is a logarithmic unit that expresses the ratio of a sound pressure level to a standard reference level. A scale relating sounds encountered in daily life to their approximate dB values is provided in Table 1-1. Hertz (Hz) are use to quantify sound frequency. The human ear responds differently to different frequencies. The *A-weighing* of sound, described in a-weighted decibels (dBA), approximates this frequency response to describe better the perception of sound by humans.

Table 1-1 Common Sound Levels

Outdoor	Sound level (dBA)	Indoor
Snowmobile	100	Subway Train
Tractor	90	Garbage Disposal
Noisy Restaurant	85	Blender
Downtown (Large City)	80	Ringing Telephone
Freeway Traffic	70	TV Audio
Normal Conversation	60	Sewing Machine
Rainfall	50	Refrigerator
Quiet Residential Area	40	Library

Source: Harris 1998

The dBA noise metric describes steady noise levels. Although very few noises are, in fact, constant. Therefore, a noise metric, equivalent sound level (L_{eq}) has been developed. L_{eq} represents the average sound energy over a given period presented in dB (e.g., one-hour L_{eq} [L_{eq}(h)]). FHWA and LADOTD use the L_{eq}(h) descriptor to estimate the degree of nuisance or annoyance arising from changes in traffic noise.

1.2 REGULATORY OVERVIEW

In general, LADOTD has adopted the FHWA-established Noise Abatement Policy (LADOTD 2009; 23 CFR 772). The policy outlines criteria associated with proposed construction of new highways or the physical alteration of existing highways, which increases the number of through-lanes. The proposed project meets both of those criteria; therefore, these policies have been used to assess the level of effects with respect to noise. The noise-abatement policy established Noise Abatement Criteria (NAC) that provide a benchmark to assess the level at which noise becomes a clear source of annoyance for different land uses (Table 1-2). Category B, which represents moderately sensitive land uses, best describes the majority of the receptors in the area. The NAC for residential use (category B) is 66 dBA.

Table 1-2 DOTD Noise Abatement Criteria (NAC)

Activity category	Description of activity category	NAC L_{eq}(h)
A	Land for which serenity and quiet are of extraordinary significance and serve an important public need, and where the preservation of those qualities is essential if the area is to continue to serve its intended purpose	56 (exterior)
B	Picnic areas, recreation areas, playgrounds, active sports areas, parks, residences, motels, hotels, schools, churches, libraries, and hospitals	66 (exterior)
C	Developed lands, properties, or activities not included in Categories A or B	71 (exterior)
D	Undeveloped lands	N/A
E	Residences, motels, hotels, public meeting rooms, schools, churches, libraries, hospitals, and auditoriums	51 (interior)

Sources: LADOTD 2009; 23 CFR 772

As defined in the DOTD and FHWA noise abatement policies, traffic noise effects can occur under two separate conditions: (1) when noise levels are unacceptably high, or (2) when a proposed highway project would substantially increase the existing noise environment. Specifically, a traffic noise effect occurs when the predicted levels equal or exceed the NAC (e.g. greater than 66 dBA for category B), or when predicted traffic noise levels exceed the existing noise levels by greater than 10 dBA. The level of impact under the National Environmental Policy Act (NEPA) for the alternatives (i.e., negligible, minor, moderate, or significant) is determined on the basis of the total number of receptors affected, the relative increase in noise for identified receptors, and the ability to incorporate, by design, noise-reduction measures into the proposed highway (i.e. barriers or berms).

SECTION 2.0 EXISTING CONDITIONS

Different types of land uses and the human activities associated with them have different sensitivities to changes in ambient noise levels. To characterize those parameters, aerial maps and a visual survey of the project corridor were performed. In general, the area is typically rural, and the properties along the project corridor are typically residential. A majority of the project runs through relatively undeveloped and underdeveloped portions of St. Tammany Parish.

Existing sources of noise are similar throughout the parish and include local road traffic, high-altitude aircraft overflights, and natural noises, such as wildlife vocalizations and leaves rustling. The only predominant ongoing source of noise associated with the project areas are existing roadways such as I-12, LA 21, LA 434, LA 1088, and Airport Road. Given the lack of other anthropogenic noises, vehicles on the roadways are likely audible for a mile or more particularly during quiet periods. The noise environment in communities and towns throughout the parish are a mixture of quiet residential and light commercial. Some individual residences, multifamily dwellings, churches, and schools are within 1,000 feet of many of the primary arterials. They are chiefly in the communities and towns throughout the parish such as Bush, Talisheek, and Abita Springs.

Because of the rural nature of the area, it is clear that existing noise levels at locations of interest are predominantly from primary and secondary roadways; therefore, the existing noise levels were modeled, not measured. Existing noise levels for existing roadways, interchanges, and sections that are collocated with and would need to be widened or altered under any of the four alternatives were predicted using the FHWA highway traffic noise prediction model, Traffic Noise Model (TNM) 2.5. This model uses the number and type of vehicles on an existing or planned roadway, their speeds, and the physical characteristics of the road (e.g., curves, hills, depressed, elevated). Each existing roadway was modeled, assuming no special noise abatement measures would be incorporated, and the roadway sections were assumed at-grade. The noise predictions made in this report are for the traffic conditions during 2010. It was assumed that the peak-hour volumes and corresponding speeds for trucks and automobiles would result in the noisiest conditions. During all other periods, the noise levels would be less than those indicated herein. The following roadways have the most traffic in the study area and were included in the noise evaluation: LA 21, LA 41, LA 36, LA 435, LA 434, LA 1088, and Airport Road.

Receptors (i.e., residential neighborhoods, parks, churches, schools, hospitals, libraries) within one mile of Control of Access portions of the proposed highway were identified (Figure 2-1). Notably, due to the rural nature of the study area the vast majority of noise receptors are residential. Noise predictions were made for locations just adjacent to existing houses on the side facing the existing nearby roadway. Noise predictions of $L_{eq}(h)$ for representative receptors near roadways of interest in the study area are outlined in Table 2-1. No residences or other land uses identified equal or exceed the NAC for category B of 66 dBA.

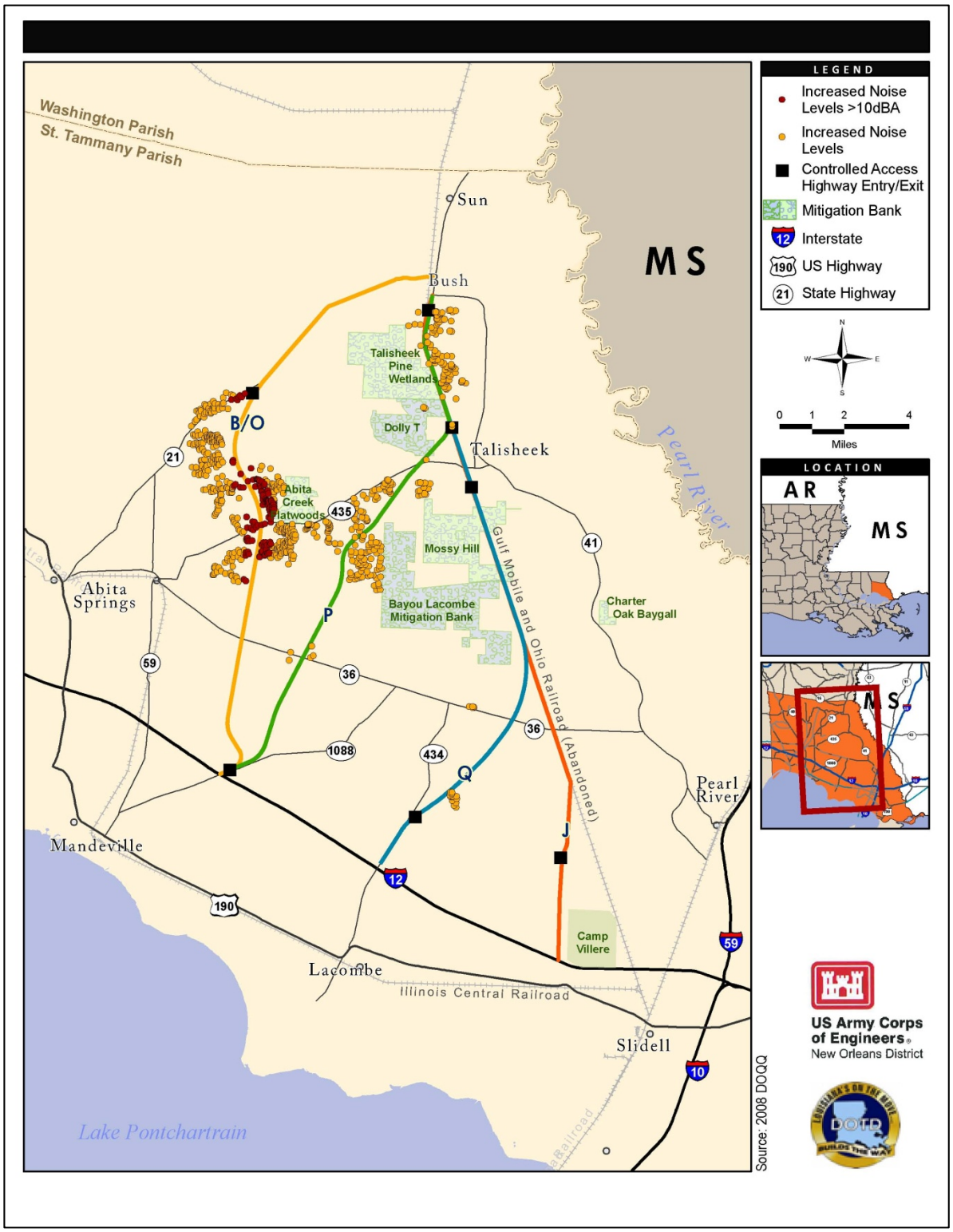

Figure 2-1. Noise Receptors within One Mile of the Control of Access Portions of the Proposed Highways

Table 2-1 Sound levels – Existing Conditions

Alternative	Number of Receptors[1]		L_{eq}[1hr] A.M.	L_{eq}[1hr] P.M.	Number of Receptors Above 66 dBA
B/O	**477**	Maximum	33.7	33.7	0
		Minimum	28.8	28.5	
		Median	30.4	30.3	
J	**94**	Maximum	34.2	33.9	0
		Minimum	30.2	30.0	
		Median	31.4	31.1	
P	**268**	Maximum	56.8	56.7	0
		Minimum	30.0	29.9	
		Median	31.1	31.0	
Q	**112**	Maximum	56.6	56.6	0
		Minimum	30.2	30.0	
		Median	31.6	31.3	

[1] Number of receptors within one mile of the proposed Control of Access highways

<Intentionally Blank>

SECTION 3.0 NOISE ASSESSMENT

3.1 METHODOLOGY

As indicated in Section 2, existing noise levels throughout the study area were estimated using modeling. The maximum design year peak-hour Leq traffic noise levels expected for receptors in the vicinity of the project were predicted. FHWA's TNM was used to compare predicted noise levels for the maximum analysis year (2035) and current noise levels to determine if traffic noise impacts can be expected from the proposed project. Notably, peak traffic does not always equate to peak noise, but it is the best available information at the time of the analysis and the assumption is reasonable given the predicted level of service. Traffic noise impacts were determined in accordance with FHWA regulations and guidelines published as Section 772 of Title 23 of the Code of Federal Regulations (23 CFR §772) and DOTD Highway Traffic Noise Policy (2009). Where traffic noise impacts are predicted, the analysis includes an evaluation of noise abatement measures. Traffic noise impacts occur when the predicted traffic noise levels either (1) equal or exceed the DOTD NAC, or (2) exceed the existing noise levels by 10 dBA.

Receptors within one mile of the proposed Control of Access portions of the proposed highways were examined for each of the alternatives. Due to the rural nature of the Control of Access potions of the proposed highways all receptors identified were land use category B and included primarily residences. Notably, the accuracy for the model decreases with distance from roadway, so predicted noise levels for sites closer to roadway are more accurate than those further away. Notably, the U.S. Army Corps of Engineers (USACE) is preparing a *Conceptual Stage Relocation Plan* in accordance with the requirements of the LADOTD Office of Right of Way Operations Manual and 49CFR Part 24 § 24.205a to outline those families, businesses and other persons that would be displaced by the project. Families, businesses and other persons that would be displaced by the project are still being examined and have not been excluded from this analysis. Therefore, the overall number of receptors affected by noise may be less than that outlined herein.

Given the large study area and its rural nature, a bounded analysis was performed to determine the potential *reasonableness* for noise barriers along the Control of Access Portion of the highway near receptors with a 10 or greater dBA increase in traffic noise. For analysis purposes it was assumed that all receptors might receive a 5-dBA reduction from a 10-foot tall, ground mounted noise barrier. Because some receptors would not receive this benefit, and noise barriers would need to be taller than 10-feet, the actual cost per benefited receptor would be greater than those described herein. If receptors are too wide spread along the Control of Access portions of the proposed highways, and the cost were expected to be greater than $25,000 per receptor, noise barriers would not be reasonable regardless of the height of the barrier or the overall benefit per receptor. A barrier was assumed to have a minium cost of $30 per square foot. A detail analysis optimizing barrier height and cost would be performed for those areas where the screening analysis indicated a potential barrier. Also field measurements would be taken in those areas where a more detail analysis is warranted.

The horizontal and vertical alignments for each of the build alternatives were developed from digital orthophoto quarter quads (DOQQ) and Light Detection and Ranging Data (LiDAR) information. Topographic field surveys were not conducted for the development of the alignments. These alignments may require minor shifts or adjustments as the design proceeds with more detail and topographic field surveys are performed. In addition, the noise modeling effort is also subject to this uncertainty and changes in alignment would introduce changes in the modeled sound levels.

Although this uncertainty exists, there are no areas near any of the proposed control of access highways that would have higher density residential settlement than that outlined herein. Even with refinements to the alignment or additional precision to the noise modeling, it is not expected that the overall number of receptors affected or the minimum length of the noise barrier required would change appreciably.

3.2 NO BUILD ALTERNATIVE

Long-term negligible adverse effects on the noise environment would be expected with the implementation of the No Build Alternative. The effects would primarily be due to the natural increase in traffic in the study area.

Noise levels were modeled for future traffic conditions without the proposed alternatives. Each roadway was modeled, assuming no special noise abatement measures would be incorporated, and the roadway sections were assumed at-grade. Future noise predictions are for the traffic conditions during 2035. It was assumed that the peak-hour volumes and corresponding speeds for trucks and automobiles would result in the noisiest conditions. Noise predictions of L_{eq}(h) for representative receptors near roadways of interest in the study area are outlined in Table 3-1. Under the No Build Alternative, there would be only a slight increase in the level of traffic noise for receptors within one mile of the proposed Control of Access highways. No residences or other land uses identified equal or exceed the NAC for category B of 66 dBA. No identified receptors would experience a greater than 10 dBA increase.

Table 3-1 Sound Levels - No Build Alternative (2035)

Alternative	Number of Receptors[1]		Existing L_{eq}[1hr]		No Build L_{eq}[1hr]		Number of Receptors Above 66 dBA
			A.M.	P.M.	A.M.	P.M.	
B/O	477	Maximum	33.7	33.7	34.5	34.9	0
		Minimum	28.8	28.5	30.0	30.1	
		Median	30.4	30.3	31.6	31.7	
J	94	Maximum	34.2	33.9	36.1	34.4	0
		Minimum	30.2	30.0	31.8	31.0	
		Median	31.4	31.1	33.1	31.8	
P	268	Maximum	56.8	56.7	56.7	56.9	0
		Minimum	30.0	29.9	31.4	31.0	
		Median	31.1	31.0	32.6	32.1	
Q	112	Maximum	56.6	56.6	56.6	56.7	0
		Minimum	30.2	30.0	31.8	31.0	
		Median	31.6	31.3	33.4	32.1	

[1] Number of receptors within one mile of the proposed Control of Access highways

3.3 ALTERNATIVE B/O

Short-term minor and long-term significant adverse effects to the noise environment would be expected with the implementation of Alternative B/O. Long-term effects would primarily be due to changes in traffic noise throughout the study area, and specifically increase in noise along the Control of Access portions of the proposed highway.

Construction Noise. As with any major construction project, areas around the construction site are likely to experience varied periods and degrees of noise. Individual pieces of construction

equipment typically generate noise levels of 80 to 90 dBA at a distance of 50 feet (FHWA 2006) Table 3-2 presents typical noise levels (dBA at 50 feet) that the USEPA has estimated for the main phases of outdoor construction.

Table 3-2
Noise Levels Associated with Outdoor Construction

Construction Phase	L_{eq} (dBA) at 50 feet from Source
Ground Clearing	84
Excavation, Grading	89
Foundations	78
Structural	85
Finishing	89

Source: USEPA 1974

With multiple pieces of equipment operating concurrently, noise levels can be relatively high during daytime periods at locations within several hundred feet of active construction sites. The zone of relatively high construction noise levels typically extends to distances of 400 to 800 feet from the site of major construction operations. Locations within 800 feet would experience appreciable levels of heavy equipment noise. Because construction activities would be confined primarily to daytime hours, noise at nearby receptors may be clearly audible, but would not likely be highly annoying.

Highway construction activities would cause temporary localized noise, and would normally be conducted during daytime hours. At certain locations where traffic and/or road-use restrictions would affect the schedule, these activities would proceed during evening hours. Equipment would not be fixed in one location for long durations, but would progress along the ROW, and noise would be temporary and subside at any particular location as the highway construction progresses to subsequent segments. These effects would be temporary, and minor.

Traffic Noise. Noise levels were modeled for 2035 traffic conditions under Alternative B/O. Noise predictions of L_{eq}(h) for representative receptors near roadways of interest in the study area are outlined in Table 3-3. There would be a noticeable increase in the level of traffic noise (>3 dBA) for all receptors within approximately one mile of the proposed Control of Access highways proposed under Alternative B/O. Beyond this distance the change in noise would be barely perceptible. There would be an appreciable increase in the level of traffic noise (>10 dBA) for all receptors within approximately ½ mile of the proposed highways proposed under Alternative B/O. One residence would exceed the NAC for category B of 66 dBA, and 124 identified receptors would experience a greater than 10 dBA increase when compared to existing conditions (Figure 3-1).

Traffic Noise Abatement. Since 124 identified receptors would experience a greater than 10 dBA increase when compared to existing conditions, noise abatement measures for reducing or eliminating the noise impacts have been considered.

Highway alignment modification was not considered practical, as the highway alignment has been designed to reduce human and environmental impact to the maximum extent practicable while meeting DOTD design standards. The use of insulation as a noise abatement measure is only a consideration for public use or nonprofit institutional structures and is normally limited to public use structures such as schools and hospitals. No such facilities were identified along the new highway portions of Alternative B/O.

Table 3-3. Sound levels – All Alternatives

Alternative	Number of Receptors[1]		Leq[1hr] [dBA] Existing A.M.	Existing P.M.	No Build (2035) A.M.	No Build (2035) P.M.	With Alternative (2035) A.M.	With Alternative (2035) P.M.	Number of Receptors Above 66 dBA	Change from Existing Leq[1hr] A.M.	Change from Existing Leq[1hr] P.M.	Number of Receptors Increase by Greater than 10 dBA
B/O	**477**	Maximum	33.7	33.7	34.5	34.9	66.8	67.0	1	36.8	37.1	124
		Minimum	28.8	28.5	30.0	30.1	33.1	33.5		3.3	3.4	
		Median	30.4	30.3	31.6	31.7	37.1	37.6		6.4	7.0	
J	**94**	Maximum	34.2	33.9	36.1	34.4	67.6	69.9	1	35.7	38.1	43
		Minimum	30.2	30.0	31.8	31.0	35.5	35.1		1.3	1.2	
		Median	31.4	31.1	33.1	31.8	38.9	40.9		7.0	9.4	
P	**268**	Maximum	56.8	56.7	56.7	56.9	65.4	64.7	0	34.4	33.7	110
		Minimum	30.0	29.9	31.4	31.0	36.1	35.6		0.1	0.1	
		Median	31.1	31.0	32.6	32.1	40.3	39.9		9.1	8.8	
Q	**112**	Maximum	56.6	56.6	56.6	56.7	58.2	58.2	0	27.3	27.5	29
		Minimum	30.2	30.0	31.8	31.0	36.5	35.7		-2.7	-2.7	
		Median	31.6	31.3	33.4	32.1	40.1	39.9		7.2	7.3	

[1] Number of receptors within one mile of the proposed Control of Access highways

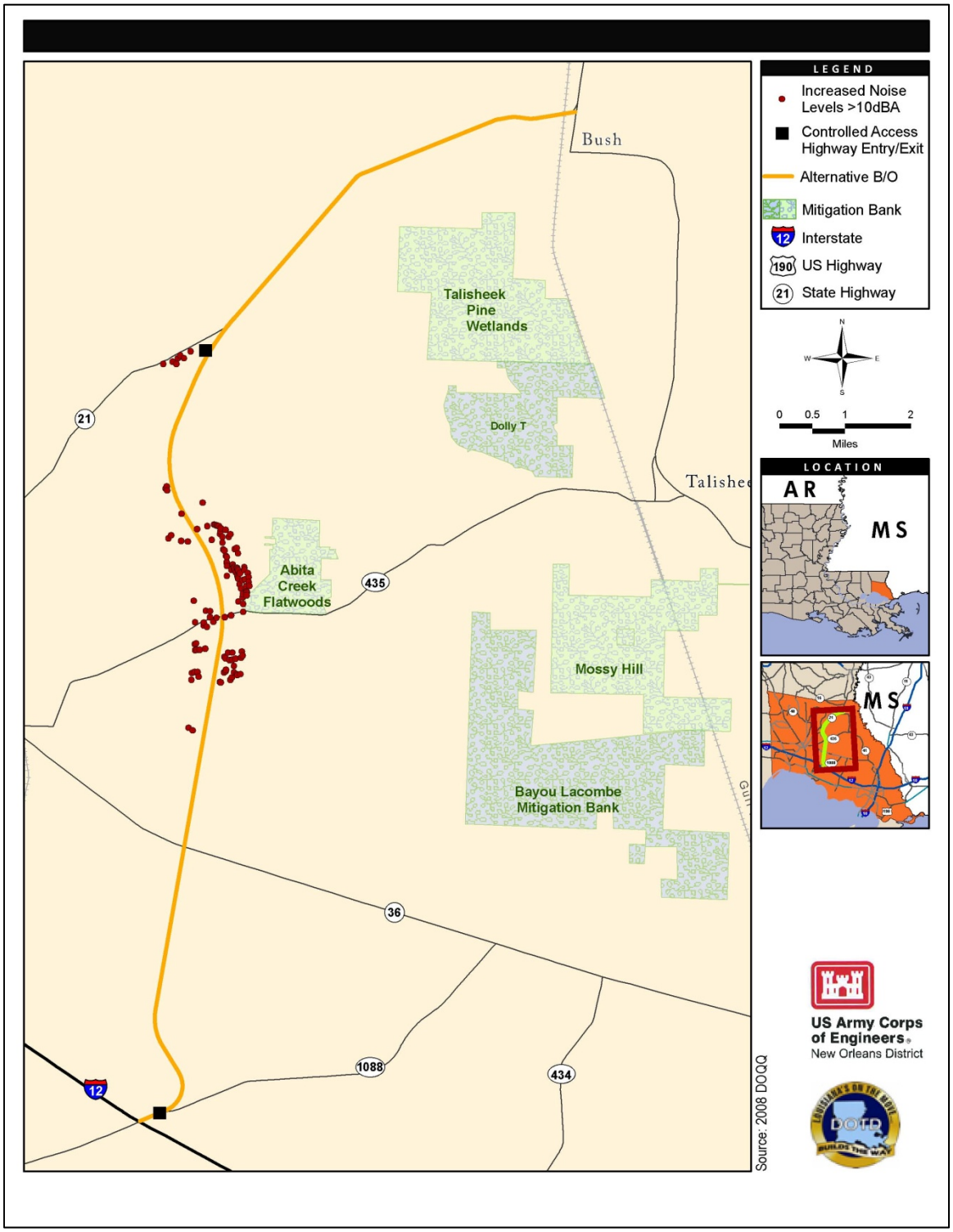

Figure 3-1. Receptors with a Greater than 10 dBA Increase – Alternative B/O

Noise barriers are most often used on high-speed, limited-access facilities where noise levels are high and adequate space is available for continuous barriers. For a noise barrier to provide sufficient noise reduction, it must be high enough and long enough to shield receptors from sizeable sections of the noise-producing roadway. Access openings in a barrier created by driveways or intersections severely reduce the effectiveness. Therefore, ground-mounted barriers in locations that would require multiple access openings for cross streets and driveways were not included in the analysis. In addition, LADOTD only consider noise barriers for new control of access facilities for state funded projects such as this project.

Barriers are not an economical noise abatement method for individual or dispersed receptors. The DOTD Traffic Noise Policy requires that a barrier be both *feasible* and *reasonable*. For low-density residential receptors, *reasonableness* is the primary determining factor for noise barrier analysis. The policy states that to be reasonable the cost of the abatement measure should not exceed $25,000 per benefited receptor. A benefited receptor is defined as a sensitive receptor, whether impacted or not, receiving a noise reduction of at least 5 dBA as a result of the proposed abatement measure.

The receptors identified as potential for noise barriers are in low-density areas and the distance between the proposed highway and the receptors is relatively large. A bounded analysis was performed to determine the potential reasonableness for noise barriers along the Control of Access Portion of the highway near receptors with a 10 or greater dBA increase in traffic noise. For analysis purposes it was assumed that all receptors might receive a 5-dBA reduction from a 10-foot tall, ground mounted noise barrier. Because some receptors would not receive this benefit, and noise barriers would need to be taller than 10-feet, the actual cost per benefited receptor would be greater than those described herein. The bare minimum cost for noise barriers would be greater than $25,000 per receptor, ranging from $40,966 to $217,800 per receptor (Table 3-4). Therefore, the receptors are too wide spread along the Control of Access portions of Alternative B/O to make a noise barrier reasonable regardless of the height of the barrier or the overall benefit per receptor. No noise barrier location was found to be both reasonable and feasible on the basis of all established criteria considered.

Table 3-4 Minimum Cost for Noise Barriers – Alternative B/O

Location	Minimum Length of Barrier [miles]	Number of Receptors	Minimum Cost Per Receptor
South of LA21 / North of LA435 East of proposed highway	1.5	58	$40,966
South of LA435 / North of LA36 East of proposed highway	0.9	22	$64,800
South of LA21 / North of LA435 West of proposed highway	1.1	8	$217,800

Even with refinements to the alignment or additional precision to the noise modeling, it is not expected that the overall number of receptors with a greater than 10 dBA increase in noise or the minimum length of the noise barrier required would change appreciably. Therefore, noise barriers would not become reasonable with these refinements.

3.4 ALTERNATIVE J

Short-term minor and long-term significant adverse effects to the noise environment would be expected with the implementation of Alternative J. Long-term effects would primarily be due to

changes in traffic noise throughout the study area, and specifically increase in noise along the Control of Access portions of the proposed highway.

Construction Noise. As with Alternative B/O, and for similar reasons, construction would have short-term minor adverse effects. It would be possible for residences and other noise-sensitive receptors closer than 800 feet, to experience appreciable amounts of construction noise. Due to the limited amount of noise and their temporary nature, these activities would have a minor effect on the noise environment.

Traffic Noise. Noise levels were modeled for 2035 traffic conditions under Alternative J. Noise predictions of $L_{eq}(h)$ for representative receptors near roadways of interest in the study area are outlined in Table 3-3. There would be a noticeable increase in the level of traffic noise (>3 dBA) for all receptors within approximately one mile of the proposed Control of Access highways. Beyond this distance the change in noise would be barely perceptible. There would be an appreciable increase in the level of traffic noise (>10 dBA) for all receptors within approximately ½ mile of the proposed highways proposed under Alternative J. One residence would exceed the NAC for category B of 66 dBA, and 43 identified receptors would experience a greater than 10 dBA increase when compared to existing conditions (Figure 3-2).

Traffic Noise Abatement. Since 43 identified receptors would experience a greater than 10 dBA increase when compared to existing conditions, noise abatement measures for reducing or eliminating the noise impacts have been considered. As with Alternative B/O, and for similar reasons, highway alignment modification was not considered practical, as the highway alignment has been designed to reduce human and environmental impact to the maximum extent practicable while meeting DOTD design standards. In addition, no public use or nonprofit institutional facilities were identified along the new highway portions of Alternative J.

As with Alternative B/O, the receptors identified as potential for noise barriers are in low-density areas and the distance between the proposed highway and the receptors is relatively large. A bounded analysis was performed to determine the potential reasonableness for noise barriers along the Control of Access Portion of the highway near receptors with a 10 or greater dBA increase in traffic noise. The bare minimum cost for noise barriers would be greater than $25,000 per receptor, ranging from $105,600 to $475,200 per receptor (Table 3-5). Therefore, the receptors are too wide spread along the Control of Access portions of Alternative J to make a noise barrier *reasonable* regardless of the height of the barrier or the overall benefit per receptor.

Table 3-5 Minimum Cost for Noise Barriers – Alternative J

Location	Length of Barrier [miles]	Number of Receptors	Minimum Cost Per Receptor
South of Bush / North of Talisheek East of proposed highway	2.4	36	$105,600
South of Bush / North of Talisheek West of proposed highway	1.5	5	$475,200

Even with refinements to the alignment or additional precision to the noise modeling, it is not expected that the overall number of receptors with a greater than 10 dBA increase in noise or the minimum length of the noise barrier required would change appreciably. Therefore, noise barriers would not become reasonable with these refinements.

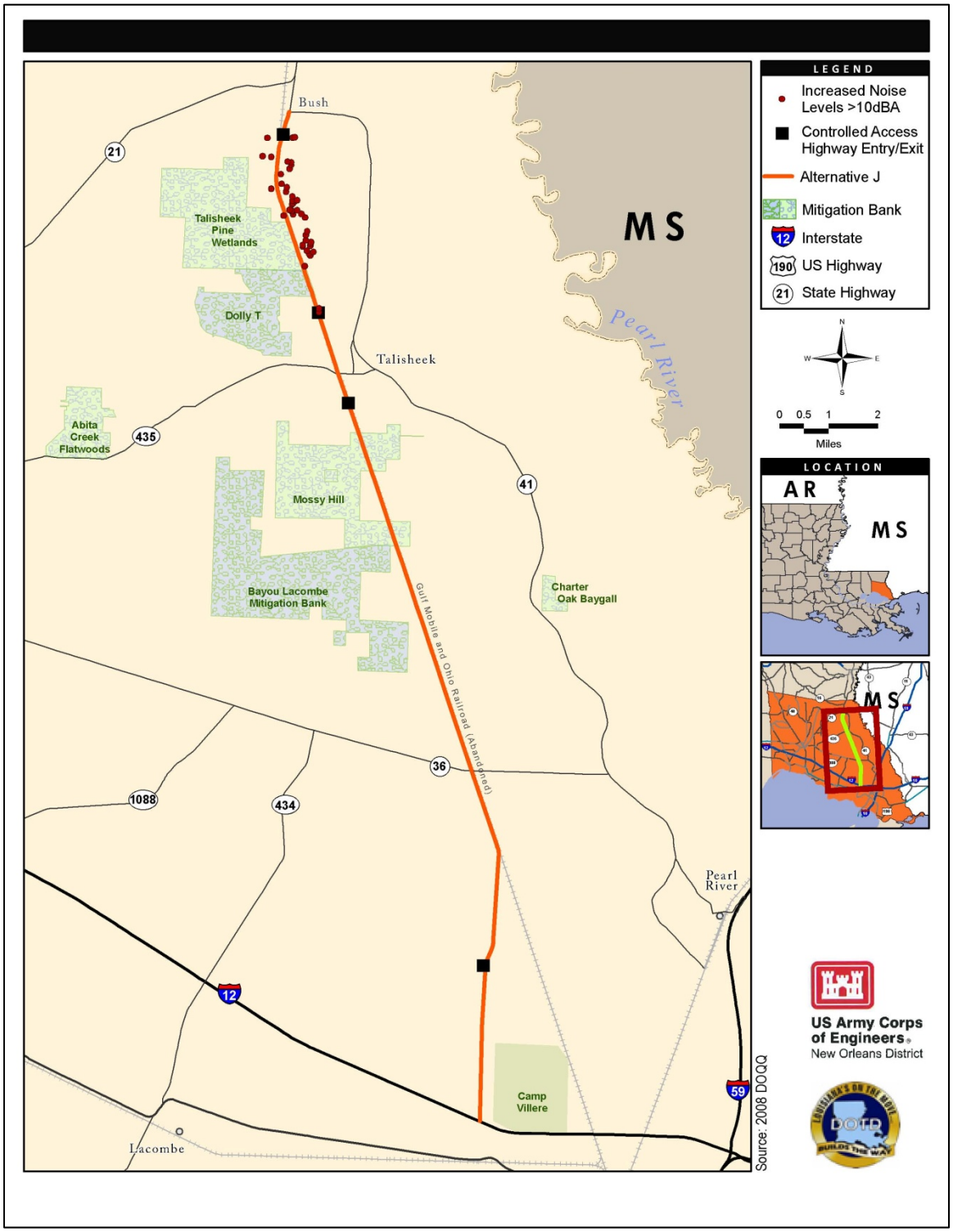

Figure 3-2. Receptors with a Greater than 10 dBA Increase – Alternative J

3.5 ALTERNATIVE P

Short-term minor and long-term significant adverse effects to the noise environment would be expected with the implementation of Alternative P. Long-term effects would primarily be due to changes in traffic noise throughout the study area, and specifically increase in noise along the Control of Access portions of the proposed highway.

Construction Noise. As with Alternative B/O, and for similar reasons, construction would have short-term minor adverse effects. It would be possible for residences and other noise-sensitive receptors closer than 800 feet, to experience appreciable amounts of construction noise. Due to the limited amount of noise and their temporary nature, these activities would have a minor effect on the noise environment.

Traffic Noise. Noise levels were modeled for 2035 traffic conditions under Alternative P. Noise predictions of $L_{eq}(h)$ for representative receptors near roadways of interest in the study area are outlined in Table 3-3. There would be a noticeable increase in the level of traffic noise (>3 dBA) for all receptors within approximately one mile of the proposed Control of Access highways. Beyond this distance the change in noise would be barely perceptible. There would be an appreciable increase in the level of traffic noise (>10 dBA) for all receptors within approximately ½ mile of the proposed highways proposed under Alternative P. No receptors would exceed the NAC for category B of 66 dBA, but 110 identified receptors would experience a greater than 10 dBA increase when compared to existing conditions (Figure 3-3).

Traffic Noise Abatement. Since 110 identified receptors would experience a greater than 10 dBA increase when compared to existing conditions, noise abatement measures for reducing or eliminating the noise impacts have been considered. As with Alternative B/O, and for similar reasons, highway alignment modification was not considered practical, as the highway alignment has been designed to reduce human and environmental impact to the maximum extent practicable while meeting DOTD design standards. In addition, no public use or nonprofit institutional facilities were identified along the new highway portions of Alternative P.

As with Alternative B/O, the receptors identified as potential for noise barriers are in low-density areas and the distance between the proposed highway and the receptors is relatively large. A bounded analysis was performed to determine the potential reasonableness for noise barriers along the Control of Access Portion of the highway near receptors with a 10 or greater dBA increase in traffic noise. The bare minimum cost for noise barriers would be greater than $25,000 per receptor, ranging from $99,460 to $792,000 per receptor (Table 3-6). Therefore, the receptors are too wide spread along the Control of Access portions of Alternative P to make a noise barrier *reasonable* regardless of the height of the barrier or the overall benefit per receptor.

Table 3-6 Minimum Cost for Noise Barriers – Alternative P

Location	Minimum Length of Barrier [miles]	Number of Receptors	Minimum Cost Per Receptor
South of Bush / North of Talisheek East of proposed highway	2.7	43	$99,460
South of Bush / North of Talisheek West of proposed highway	1.5	3	$792,000
South of Talisheek / North of LA36 East of proposed highway	2.45	30	$129,360
South of Talisheek / North of LA36 West of proposed highway	2.14	22	$154,080

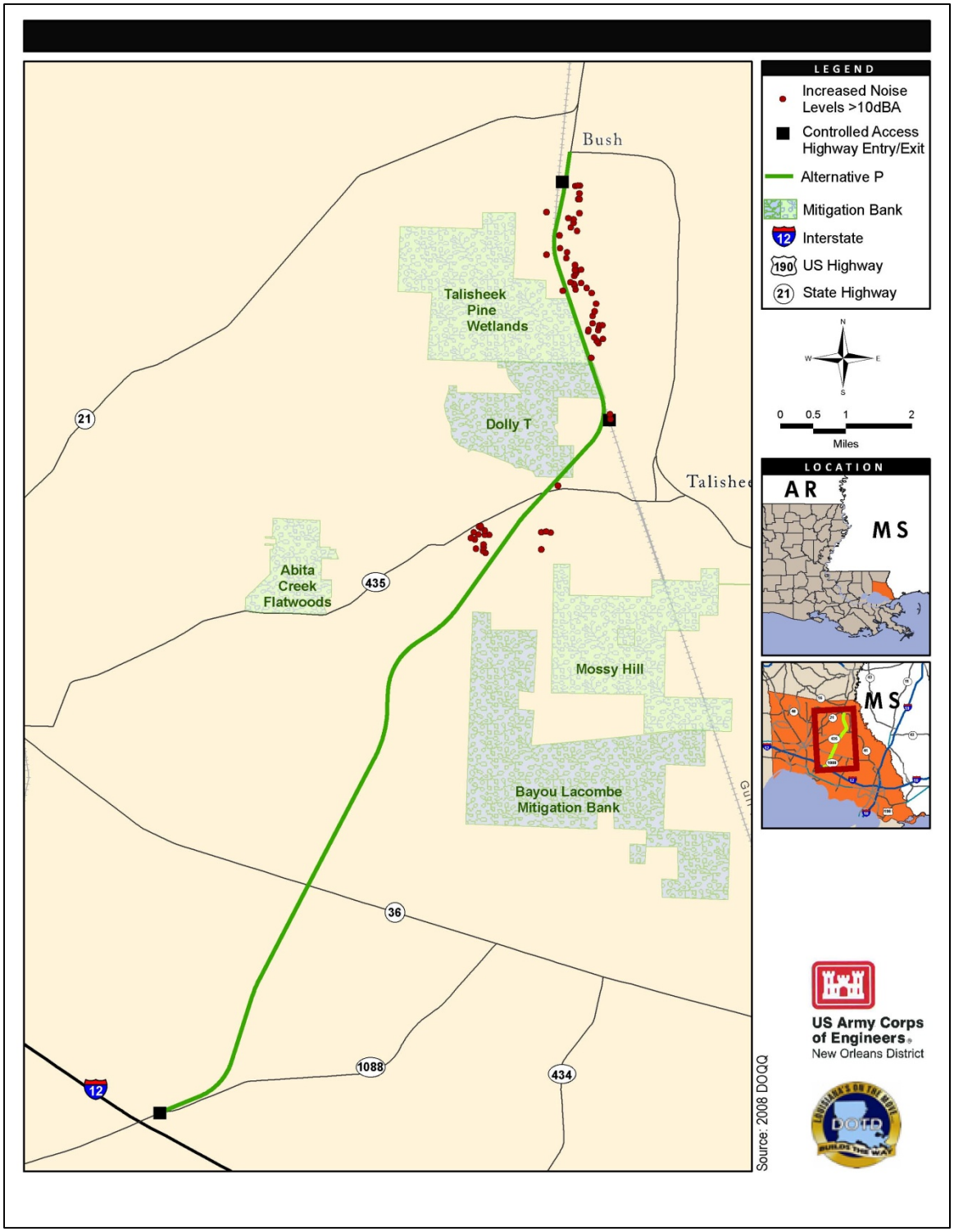

Figure 3-3. Receptors with a Greater than 10 dBA Increase – Alternative P

Even with refinements to the alignment or additional precision to the noise modeling, it is not expected that the overall number of receptors with a greater than 10 dBA increase in noise or the minimum length of the noise barrier required would change appreciably. Therefore, noise barriers would not become reasonable with these refinements.

3.6 ALTERNATIVE Q

Short-term minor and long-term significant adverse effects to the noise environment would be expected with the implementation of Alternative Q. Long-term effects would primarily be due to changes in traffic noise throughout the study area, and specifically increase in noise along the Control of Access portions of the proposed highway.

Construction Noise. As with Alternative B/O, and for similar reasons, construction would have short-term minor adverse effects. It would be possible for residences and other noise-sensitive receptors closer than 800 feet, to experience appreciable amounts of construction noise. Due to the limited amount of noise and their temporary nature, these activities would have a minor effect on the noise environment.

Traffic Noise. Noise levels were modeled for 2035 traffic conditions under Alternative Q. Noise predictions of L_{eq}(h) for representative receptors near roadways of interest in the study area are outlined in Table 3-3. There would be a noticeable increase in the level of traffic noise (>3 dBA) for all receptors within approximately one mile of the proposed Control of Access highways. Beyond this distance the change in noise would be barely perceptible. There would be an appreciable increase in the level of traffic noise (>10 dBA) for all receptors within approximately ½ mile of the proposed highways proposed under Alternative Q. No receptors would exceed the NAC for category B of 66 dBA, but 29 identified receptors would experience a greater than 10 dBA increase when compared to existing conditions (Figure 3-4).

Traffic Noise Abatement. Since 29 identified receptors would experience a greater than 10 dBA increase when compared to existing conditions, noise abatement measures for reducing or eliminating the noise impacts have been considered. As with Alternative B/O, and for similar reasons, highway alignment modification was not considered practical, as the highway alignment has been designed to reduce human and environmental impact to the maximum extent practicable while meeting DOTD design standards. In addition, no public use or nonprofit institutional facilities were identified along the new highway portions of Alternative Q.

As with Alternative B/O, the receptors identified as potential for noise barriers are in low-density areas and the distance between the proposed highway and the receptors is relatively large. A bounded analysis was performed to determine the potential reasonableness for noise barriers along the Control of Access Portion of the highway near receptors with a 10 or greater dBA increase in traffic noise. The bare minimum cost for noise barriers would be greater than $25,000 per receptor, ranging from $172,000 to $792,000 per receptor (Table 3-7). Therefore, the receptors are too wide spread along the Control of Access portions of Alternative Q to make a noise barrier *reasonable* regardless of the height of the barrier or the overall benefit per receptor.

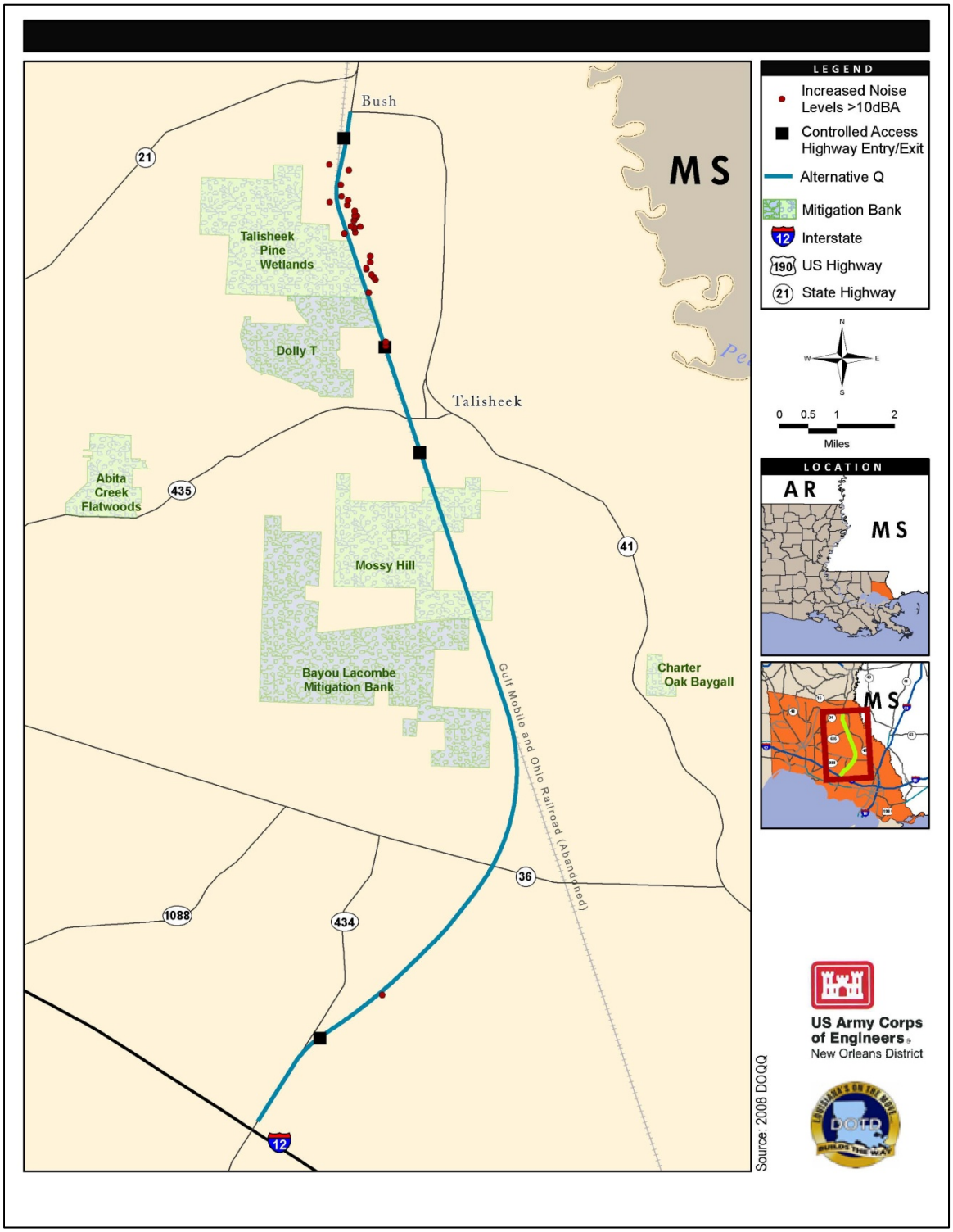

Figure 3-4. Receptors with a Greater than 10 dBA Increase – Alternative Q

Table 3-7 Minimum Cost for Noise Barriers – Alternative Q

Location	Minimum Length of Barrier [miles]	Number of Receptors	Minimum Cost Per Receptor
South of Bush / North of Talisheek East of proposed highway	2.4	22	$172,800
South of Bush / North of Talisheek West of proposed highway	1.5	3	$792,000

Even with refinements to the alignment or additional precision to the noise modeling, it is not expected that the overall number of receptors with a greater than 10 dBA increase in noise or the minimum length of the noise barrier required would change appreciably. Therefore, noise barriers would not become reasonable with these refinements.

3.7 SUMMARY

An analysis of the effects of the proposed action on ambient noise levels was performed following the procedures of LADOTD and FHWA. The analysis consisted of the evaluation of effects on potentially noise-sensitive sites along the project corridor extending from Bush, Louisiana to I-12. The general procedure used to assess these effects include determining highway traffic noise levels through computer modeling and assessing effects by comparing future modeled noise levels to the LADOTD and FHWA criteria.

All alternatives examined, would have short-term minor and long-term significant adverse effects to the noise environment. Short-term effects would be due to construction activities. Long-term effects would be due to changes in traffic noise throughout the study area, and specifically increase in noise along the Control of Access portions of the proposed highway. These are areas are rural in nature and currently do not support high levels of through traffic; subsequently, they would have the greatest increase in noise when compared to current levels.

Regardless of alternative, a relatively small number of receptors (between 29 and 124) were identified that would experience a greater than 10 dBA in noise during at least one peak traffic period under future conditions. All receptors identified along the proposed highways are in low-density areas and the distance between the proposed highway and the receptors is relatively large. Regardless of which alternative was ultimately selected, noise barriers would be unreasonable, as the bare minimum cost would be greater than $25,000 per receptor.

<Intentionally Blank>

SECTION 4.0 LIST OF PREPARERS

LPES, Inc. Engineering and Planning
Timothy Lavallee, P.E.
M.S., Environmental Health, Tufts University, Medford, Massachusetts, 1997.
B.S., Mechanical Engineering, Northeastern University, Boston, Massachusetts, 1992.
20 Years of Experience

<Intentionally Blank>

SECTION 5.0 REFERENCES

Federal Highway Administration (FHWA). 2006. Construction Noise Handbook. FHWA-HEP-06-015. August.

Harris, Cyril M. 1998. Handbook of Acoustical Measurement and Noise Control.

Louisiana Department of Transportation (LADOTD). 2009. State of Louisiana-Highway Traffic Noise Policy. March 2004(Amended August 2009 for Type II)

U.S. Environmental Protection Agency (USEPA). 1974. Information on Levels of Environmental Noise Requisite to Protect Public Health and Welfare with an Adequate Margin of Safety. Accessed May 2010 at http://www.nonoise.org/library/levels74/levels74.htm#table%20of%20contents.

<Intentionally Blank>

SECTION 6.0 ACRONYMS AND ABBREVIATIONS

USACE	U.S. Army Corp of Engineers
CFR	Code of Federal Regulations
dB	decibel
dBA	A-weighted decibel
DOQQ	digital orthophoto quarter quads
e.g.	*exempli gratia*, for the sake of example
EIS	Environmental Impact Statement
Etc.	*et cetera*, and other things
FHWA	Federal Highway Administration
ft	feet
Hz	hertz
I	Interstate
i.e.	*id est*, that is
LADOTD	Louisiana Department of Transportation
L_{eq}	Equivalent Sound Pressure Level
$L_{eq}(h)$	1-hour Equivalent Sound Pressure Level
LiDAR	Light Detection and Ranging Data
mph	miles per hour
NAC	Noise Abatement Criteria
NEPA	National Environmental Policy Act
TNM	Traffic Noise Model

<Intentionally Blank>

ATTACHMENT A: NOISE ANALYSIS SUPPORTING DOCUMENTATION

<Intentionally Blank>

Table A-1 All Noise Sensitive Receptors in Alternative B/O (2035)												
BOR			Existing Leq[1hr]		No Action Leq[1hr]		Alternative B/O Leq[1hr]			Change from Existing Leq[1hr]		
Receptor	Latitude	Longitude	AM	PM	AM	PM	AM	PM	Exceeds 66 dBA?	AM	PM	Exceeds 10 dBA?
BO2	-90.0224	30.54771	28.8	28.6	30	30.2	33.1	33.5	FALSE	4.3	4.9	FALSE
BO13	-90.0199	30.55453	28.8	28.5	30.1	30.1	33.2	33.6	FALSE	4.4	5.1	FALSE
BO1	-90.023	30.5399	29.0	28.9	30.2	30.4	33.3	33.6	FALSE	4.3	4.7	FALSE
BO9	-90.0205	30.54996	28.8	28.6	30.1	30.2	33.3	33.7	FALSE	4.5	5.1	FALSE
BO17	-90.0189	30.55482	28.8	28.5	30.1	30.1	33.3	33.7	FALSE	4.5	5.2	FALSE
BO4	-90.0214	30.54392	28.9	28.8	30.2	30.3	33.4	33.8	FALSE	4.5	5	FALSE
BO12	-90.0197	30.55075	28.8	28.6	30.1	30.2	33.4	33.8	FALSE	4.6	5.2	FALSE
BO21	-90.0186	30.55349	28.8	28.6	30.1	30.2	33.4	33.8	FALSE	4.6	5.2	FALSE
BO26	-90.0178	30.55536	28.8	28.5	30.1	30.2	33.4	33.8	FALSE	4.6	5.3	FALSE
BO5	-90.0211	30.53936	29.1	28.9	30.3	30.5	33.5	33.9	FALSE	4.4	5	FALSE
BO28	-90.0177	30.55476	28.9	28.6	30.2	30.2	33.5	33.9	FALSE	4.6	5.3	FALSE
BO7	-90.0203	30.5399	29.1	28.9	30.3	30.4	33.6	34	FALSE	4.5	5.1	FALSE
BO8	-90.0203	30.54313	29.0	28.8	30.2	30.3	33.6	33.9	FALSE	4.6	5.1	FALSE
BO10	-90.0202	30.54395	29.0	28.8	30.2	30.3	33.6	33.9	FALSE	4.6	5.1	FALSE
BO25	-90.018	30.55221	28.9	28.6	30.2	30.2	33.6	34	FALSE	4.7	5.4	FALSE
BO45	-90.0159	30.55756	28.9	28.6	30.2	30.3	33.6	34	FALSE	4.7	5.4	FALSE
BO3	-90.0214	30.52933	29.5	29.4	30.7	30.9	33.7	34	FALSE	4.2	4.6	FALSE
BO15	-90.0192	30.54526	29.0	28.8	30.2	30.3	33.7	34.1	FALSE	4.7	5.3	FALSE
BO14	-90.0191	30.54032	29.1	28.9	30.3	30.5	33.8	34.2	FALSE	4.7	5.3	FALSE
BO16	-90.0188	30.5435	29.0	28.8	30.2	30.4	33.8	34.2	FALSE	4.8	5.4	FALSE
BO52	-90.0152	30.55569	29.0	28.6	30.3	30.3	33.8	34.3	FALSE	4.8	5.7	FALSE
BO55	-90.0152	30.55694	29.0	28.6	30.3	30.3	33.8	34.2	FALSE	4.8	5.6	FALSE
BO6	-90.0199	30.5266	29.7	29.6	30.8	31	33.9	34.2	FALSE	4.2	4.6	FALSE
BO22	-90.0182	30.54014	29.1	29.0	30.3	30.5	33.9	34.4	FALSE	4.8	5.4	FALSE
BO41	-90.0161	30.55195	29.0	28.7	30.2	30.3	33.9	34.4	FALSE	4.9	5.7	FALSE
BO44	-90.0158	30.55332	29.0	28.7	30.2	30.3	33.9	34.4	FALSE	4.9	5.7	FALSE
BO11	-90.0194	30.52931	29.5	29.4	30.7	30.9	34	34.3	FALSE	4.5	4.9	FALSE
BO19	-90.0182	30.53818	29.2	29.0	30.4	30.5	34	34.4	FALSE	4.8	5.4	FALSE
BO20	-90.0182	30.53908	29.2	29.0	30.4	30.5	34	34.4	FALSE	4.8	5.4	FALSE
BO24	-90.0178	30.53746	29.2	29.1	30.4	30.6	34	34.5	FALSE	4.8	5.4	FALSE
BO30	-90.0173	30.54381	29.0	28.8	30.3	30.4	34	34.5	FALSE	5	5.7	FALSE
BO54	-90.0151	30.55409	29.0	28.7	30.3	30.3	34	34.4	FALSE	5	5.7	FALSE
BO29	-90.0172	30.54041	29.1	29.0	30.4	30.5	34.1	34.5	FALSE	5	5.5	FALSE
BO67	-90.0137	30.5559	29.0	28.7	30.4	30.4	34.1	34.6	FALSE	5.1	5.9	FALSE
BO76	-90.0128	30.55784	29.1	28.7	30.4	30.4	34.1	34.6	FALSE	5	5.9	FALSE
BO18	-90.0179	30.52695	29.7	29.6	30.8	31	34.2	34.5	FALSE	4.5	4.9	FALSE
BO23	-90.0177	30.52588	29.7	29.7	30.9	31.1	34.2	34.5	FALSE	4.5	4.8	FALSE
BO27	-90.017	30.53246	29.4	29.3	30.6	30.8	34.2	34.6	FALSE	4.8	5.3	FALSE
BO33	-90.0168	30.53841	29.2	29.0	30.4	30.6	34.2	34.6	FALSE	5	5.6	FALSE
BO66	-90.0138	30.55385	29.0	28.7	30.3	30.4	34.2	34.7	FALSE	5.2	6	FALSE
BO31	-90.0167	30.52643	29.7	29.6	30.9	31.1	34.3	34.7	FALSE	4.6	5.1	FALSE
BO32	-90.0165	30.52893	29.6	29.5	30.7	31	34.3	34.7	FALSE	4.7	5.2	FALSE
BO34	-90.0164	30.53162	29.5	29.4	30.6	30.8	34.3	34.7	FALSE	4.8	5.3	FALSE
BO35	-90.0164	30.53213	29.5	29.3	30.6	30.8	34.3	34.7	FALSE	4.8	5.4	FALSE
BO36	-90.0164	30.53252	29.4	29.3	30.6	30.8	34.3	34.7	FALSE	4.9	5.4	FALSE
BO38	-90.0164	30.53755	29.2	29.1	30.4	30.6	34.3	34.7	FALSE	5.1	5.6	FALSE
BO39	-90.0163	30.54043	29.2	29.0	30.4	30.5	34.3	34.7	FALSE	5.1	5.7	FALSE
BO95	-90.0115	30.55903	29.2	28.8	30.5	30.5	34.3	34.8	FALSE	5.1	6	FALSE
BO37	-90.0163	30.53026	29.5	29.4	30.7	30.9	34.4	34.8	FALSE	4.9	5.4	FALSE
BO46	-90.0153	30.54256	29.1	28.9	30.4	30.5	34.4	34.9	FALSE	5.3	6	FALSE
BO49	-90.0152	30.54591	29.1	28.8	30.3	30.4	34.4	34.9	FALSE	5.3	6.1	FALSE
BO75	-90.0128	30.55468	29.1	28.8	30.4	30.4	34.4	34.9	FALSE	5.3	6.1	FALSE
BO42	-90.0154	30.53629	29.3	29.2	30.5	30.7	34.5	34.9	FALSE	5.2	5.7	FALSE
BO78	-90.0125	30.55352	29.1	28.8	30.4	30.4	34.5	35.1	FALSE	5.4	6.3	FALSE
BO40	-90.0152	30.51932	30.1	30.1	31.2	31.5	34.6	34.9	FALSE	4.5	4.8	FALSE
BO43	-90.015	30.52639	29.7	29.6	30.9	31.1	34.6	35	FALSE	4.9	5.4	FALSE
BO47	-90.0149	30.52862	29.6	29.5	30.8	31	34.6	35	FALSE	5	5.5	FALSE

Table A-1 All Noise Sensitive Receptors in Alternative BO (2035) (Continued)

BOR			Existing Leq[1hr]		No Action Leq[1hr]		Alternative B/O Leq[1hr]			Change from Existing Leq[1hr]		
Receptor	Latitude	Longitude	AM	PM	AM	PM	AM	PM	Exceeds 66 dBA?	AM	PM	Exceeds 10 dBA?
BO48	-90.015	30.53292	29.4	29.3	30.6	30.8	34.6	35	FALSE	5.2	5.7	FALSE
BO59	-90.0142	30.54348	29.1	28.9	30.4	30.5	34.6	35.2	FALSE	5.5	6.3	FALSE
BO60	-90.0142	30.54396	29.1	28.9	30.4	30.5	34.6	35.2	FALSE	5.5	6.3	FALSE
BO82	-90.0122	30.55408	29.1	28.8	30.4	30.4	34.6	35.1	FALSE	5.5	6.3	FALSE
BO87	-90.0116	30.55583	29.2	28.8	30.5	30.5	34.6	35.1	FALSE	5.4	6.3	FALSE
BO99	-90.0111	30.55641	29.2	28.8	30.5	30.5	34.6	35.1	FALSE	5.4	6.3	FALSE
BO101	-90.0109	30.55669	29.2	28.8	30.5	30.5	34.6	35.2	FALSE	5.4	6.4	FALSE
BO114	-90.0104	30.55814	29.2	28.9	30.6	30.6	34.6	35.1	FALSE	5.4	6.2	FALSE
BO50	-90.0145	30.52792	29.7	29.6	30.8	31	34.7	35.1	FALSE	5	5.5	FALSE
BO51	-90.0144	30.52943	29.6	29.5	30.8	31	34.7	35.1	FALSE	5.1	5.6	FALSE
BO53	-90.0141	30.51947	30.1	30.1	31.2	31.5	34.7	35	FALSE	4.6	4.9	FALSE
BO56	-90.0141	30.52586	29.8	29.7	30.9	31.1	34.7	35.1	FALSE	4.9	5.4	FALSE
BO57	-90.0142	30.53536	29.4	29.2	30.6	30.7	34.7	35.2	FALSE	5.3	6	FALSE
BO61	-90.014	30.54202	29.2	29.0	30.4	30.5	34.7	35.2	FALSE	5.5	6.2	FALSE
BO62	-90.0138	30.54265	29.2	29.0	30.4	30.5	34.7	35.3	FALSE	5.5	6.3	FALSE
BO63	-90.0139	30.54315	29.1	28.9	30.4	30.5	34.7	35.2	FALSE	5.6	6.3	FALSE
BO58	-90.0138	30.5302	29.6	29.5	30.7	30.9	34.8	35.2	FALSE	5.2	5.7	FALSE
BO108	-90.0106	30.55616	29.2	28.8	30.5	30.5	34.8	35.3	FALSE	5.6	6.5	FALSE
BO64	-90.0133	30.5281	29.7	29.6	30.8	31	34.9	35.4	FALSE	5.2	5.8	FALSE
BO65	-90.0134	30.53575	29.4	29.2	30.6	30.7	34.9	35.4	FALSE	5.5	6.2	FALSE
BO68	-90.0131	30.54185	29.2	29.0	30.4	30.5	34.9	35.5	FALSE	5.7	6.5	FALSE
BO69	-90.0131	30.54381	29.2	28.9	30.4	30.5	34.9	35.4	FALSE	5.7	6.5	FALSE
BO105	-90.0107	30.55439	29.2	28.8	30.5	30.5	34.9	35.5	FALSE	5.7	6.7	FALSE
BO70	-90.0128	30.54314	29.2	29.0	30.4	30.5	35	35.6	FALSE	5.8	6.6	FALSE
BO71	-90.0125	30.54213	29.2	29.0	30.4	30.6	35.1	35.6	FALSE	5.9	6.6	FALSE
BO72	-90.0118	30.52061	30.1	30.0	31.2	31.4	35.1	35.4	FALSE	5	5.4	FALSE
BO74	-90.0124	30.54109	29.2	29.0	30.5	30.6	35.1	35.7	FALSE	5.9	6.7	FALSE
BO81	-90.0111	30.5185	30.2	30.1	31.3	31.6	35.1	35.5	FALSE	4.9	5.4	FALSE
BO139	-90.0088	30.55779	29.4	28.9	30.7	30.7	35.1	35.7	FALSE	5.7	6.8	FALSE
BO73	-90.0121	30.53113	29.6	29.4	30.7	30.9	35.2	35.7	FALSE	5.6	6.3	FALSE
BO77	-90.0123	30.54413	29.2	28.9	30.4	30.5	35.2	35.7	FALSE	6	6.8	FALSE
BO79	-90.0121	30.54377	29.2	29.0	30.4	30.5	35.2	35.8	FALSE	6	6.8	FALSE
BO80	-90.0116	30.53267	29.5	29.4	30.7	30.9	35.3	35.8	FALSE	5.8	6.4	FALSE
BO88	-90.0105	30.52016	30.1	30.0	31.2	31.5	35.3	35.6	FALSE	5.2	5.6	FALSE
BO93	-90.0103	30.51872	30.2	30.1	31.3	31.5	35.3	35.6	FALSE	5.1	5.5	FALSE
BO97	-90.0101	30.52006	30.1	30.0	31.2	31.5	35.3	35.7	FALSE	5.2	5.7	FALSE
BO83	-90.0116	30.54102	29.3	29.1	30.5	30.6	35.4	36	FALSE	6.1	6.9	FALSE
BO84	-90.0115	30.54373	29.2	29.0	30.5	30.5	35.4	36	FALSE	6.2	7	FALSE
BO85	-90.0114	30.54307	29.2	29.0	30.5	30.6	35.4	36	FALSE	6.2	7	FALSE
BO110	-90.0091	30.50816	30.9	30.9	32	32.3	35.4	35.7	FALSE	4.5	4.8	FALSE
BO118	-90.0086	30.50885	30.9	30.8	31.9	32.2	35.4	35.7	FALSE	4.5	4.9	FALSE
BO145	-90.0085	30.55612	29.3	28.9	30.7	30.7	35.4	36	FALSE	6.1	7.1	FALSE
BO86	-90.0113	30.54211	29.2	29.0	30.5	30.6	35.5	36.1	FALSE	6.3	7.1	FALSE
BO90	-90.0109	30.5343	29.5	29.3	30.7	30.8	35.5	36.1	FALSE	6	6.8	FALSE
BO123	-90.0082	30.51401	30.5	30.4	31.6	31.8	35.5	35.8	FALSE	5	5.4	FALSE
BO125	-90.0081	30.50953	30.8	30.8	31.9	32.1	35.5	35.8	FALSE	4.7	5	FALSE
BO135	-90.0076	30.51128	30.7	30.6	31.7	32	35.5	35.9	FALSE	4.8	5.3	FALSE
BO150	-90.0084	30.5557	29.3	29.0	30.7	30.7	35.5	36.1	FALSE	6.2	7.1	FALSE
BO176	-90.0063	30.56087	29.6	29.1	31	30.9	35.5	36	FALSE	5.9	6.9	FALSE
BO89	-90.0109	30.53169	29.6	29.4	30.7	30.9	35.6	36.1	FALSE	6	6.7	FALSE
BO92	-90.011	30.54107	29.3	29.1	30.5	30.6	35.6	36.2	FALSE	6.3	7.1	FALSE
BO94	-90.0109	30.53853	29.3	29.1	30.6	30.7	35.6	36.2	FALSE	6.3	7.1	FALSE
BO120	-90.0085	30.51915	30.2	30.1	31.3	31.5	35.6	35.9	FALSE	5.4	5.8	FALSE
BO138	-90.0075	30.5146	30.5	30.4	31.5	31.8	35.6	35.9	FALSE	5.1	5.5	FALSE

Table A-1 All Noise Sensitive Receptors in Alternative BO (2035) (Continued)

BOR			Existing Leq[1hr]		No Action Leq[1hr]		Alternative B/O Leq[1hr]			Change from Existing Leq[1hr]		
Receptor	Latitude	Longitude	AM	PM	AM	PM	AM	PM	Exceeds 66 dBA?	AM	PM	Exceeds 10 dBA?
BO141	-90.0072	30.51045	30.7	30.7	31.8	32.1	35.6	35.9	FALSE	4.9	5.2	FALSE
BO143	-90.0074	30.51502	30.4	30.4	31.5	31.8	35.6	36	FALSE	5.2	5.6	FALSE
BO147	-90.0072	30.51276	30.6	30.5	31.7	31.9	35.6	36	FALSE	5	5.5	FALSE
BO180	-90.0048	30.56298	29.9	29.3	31.3	31.2	35.7	36.3	FALSE	5.8	7	FALSE
BO100	-90.0106	30.54374	29.2	29.0	30.5	30.6	35.8	36.4	FALSE	6.6	7.4	FALSE
BO102	-90.0102	30.53374	29.5	29.3	30.7	30.8	35.8	36.3	FALSE	6.3	7	FALSE
BO103	-90.0105	30.5417	29.3	29.1	30.5	30.6	35.8	36.4	FALSE	6.5	7.3	FALSE
BO104	-90.0104	30.54271	29.2	29.0	30.5	30.6	35.8	36.4	FALSE	6.6	7.4	FALSE
BO148	-90.0074	30.5202	30.1	30.0	31.2	31.5	35.8	36.2	FALSE	5.7	6.2	FALSE
BO161	-90.0061	30.51359	30.5	30.5	31.6	31.9	35.8	36.2	FALSE	5.3	5.7	FALSE
BO163	-90.0061	30.51466	30.5	30.4	31.6	31.8	35.8	36.2	FALSE	5.3	5.8	FALSE
BO173	-90.0066	30.55796	29.5	29.1	30.9	30.8	35.8	36.5	FALSE	6.3	7.4	FALSE
BO422	-89.9738	30.52197	30.1	30.0	31.4	31.4	35.8	36.2	FALSE	5.7	6.2	FALSE
BO477	-89.9672	30.50022	31.2	31.2	32.3	32.5	35.8	36.2	FALSE	4.6	5	FALSE
BO113	-90.0096	30.53097	29.6	29.5	30.8	30.9	35.9	36.5	FALSE	6.3	7	FALSE
BO131	-90.0083	30.52466	29.9	29.8	31	31.2	35.9	36.4	FALSE	6	6.6	FALSE
BO159	-90.0063	30.51719	30.3	30.2	31.4	31.6	35.9	36.3	FALSE	5.6	6.1	FALSE
BO160	-90.0062	30.51675	30.3	30.3	31.4	31.7	35.9	36.3	FALSE	5.6	6	FALSE
BO170	-90.0055	30.51463	30.5	30.4	31.6	31.8	35.9	36.3	FALSE	5.4	5.9	FALSE
BO413	-89.9751	30.52361	30.1	30.0	31.3	31.4	35.9	36.3	FALSE	5.8	6.3	FALSE
BO423	-89.9737	30.52131	30.1	30.0	31.4	31.5	35.9	36.2	FALSE	5.8	6.2	FALSE
BO474	-89.968	30.50178	31.1	31.1	32.2	32.4	35.9	36.3	FALSE	4.8	5.2	FALSE
BO475	-89.9679	30.50045	31.2	31.1	32.3	32.5	35.9	36.3	FALSE	4.7	5.2	FALSE
BO476	-89.9672	30.49893	31.2	31.2	32.4	32.6	35.9	36.2	FALSE	4.7	5	FALSE
BO111	-90.01	30.54109	29.3	29.1	30.5	30.6	36	36.6	FALSE	6.7	7.5	FALSE
BO116	-90.0095	30.53496	29.5	29.3	30.7	30.8	36	36.6	FALSE	6.5	7.3	FALSE
BO151	-90.0073	30.52228	30.0	29.9	31.1	31.4	36	36.4	FALSE	6	6.5	FALSE
BO157	-90.0065	30.51919	30.2	30.1	31.3	31.5	36	36.4	FALSE	5.8	6.3	FALSE
BO158	-90.0065	30.51978	30.1	30.1	31.3	31.5	36	36.4	FALSE	5.9	6.3	FALSE
BO162	-90.0062	30.51768	30.3	30.2	31.4	31.6	36	36.3	FALSE	5.7	6.1	FALSE
BO177	-90.0061	30.5583	29.6	29.1	30.9	30.9	36	36.6	FALSE	6.4	7.5	FALSE
BO467	-89.9688	30.50415	30.9	30.9	32.1	32.3	36	36.4	FALSE	5.1	5.5	FALSE
BO468	-89.9688	30.50364	31.0	30.9	32.1	32.3	36	36.4	FALSE	5	5.5	FALSE
BO469	-89.9688	30.50499	30.9	30.9	32.1	32.2	36	36.3	FALSE	5.1	5.4	FALSE
BO472	-89.9679	30.49781	31.3	31.3	32.5	32.6	36	36.3	FALSE	4.7	5	FALSE
BO473	-89.9679	30.49933	31.2	31.2	32.4	32.5	36	36.3	FALSE	4.8	5.1	FALSE
BO117	-90.0093	30.53289	29.5	29.4	30.7	30.9	36.1	36.7	FALSE	6.6	7.3	FALSE
BO121	-90.0088	30.52958	29.7	29.5	30.8	31	36.1	36.6	FALSE	6.4	7.1	FALSE
BO164	-90.0061	30.52006	30.1	30.1	31.3	31.5	36.1	36.5	FALSE	6	6.4	FALSE
BO172	-90.0066	30.55614	29.5	29.0	30.8	30.8	36.1	36.8	FALSE	6.6	7.8	FALSE
BO393	-89.9771	30.52599	30.0	29.9	31.2	31.3	36.1	36.5	FALSE	6.1	6.6	FALSE
BO402	-89.976	30.52391	30.1	29.9	31.3	31.4	36.1	36.5	FALSE	6	6.6	FALSE
BO466	-89.9687	30.49991	31.2	31.2	32.4	32.5	36.1	36.5	FALSE	4.9	5.3	FALSE
BO392	-89.9772	30.52548	30.0	29.9	31.3	31.3	36.2	36.5	FALSE	6.2	6.6	FALSE
BO419	-89.974	30.51889	30.2	30.1	31.5	31.6	36.2	36.6	FALSE	6	6.5	FALSE
BO462	-89.9695	30.50279	31.0	31.0	32.2	32.3	36.2	36.5	FALSE	5.2	5.5	FALSE
BO463	-89.9694	30.50109	31.1	31.1	32.3	32.4	36.2	36.6	FALSE	5.1	5.5	FALSE
BO470	-89.968	30.48967	31.9	31.9	33	33.2	36.2	36.5	FALSE	4.3	4.6	FALSE
BO471	-89.9678	30.49104	31.8	31.8	32.9	33.1	36.2	36.5	FALSE	4.4	4.7	FALSE
BO119	-90.0095	30.54382	29.3	29.0	30.5	30.6	36.3	36.9	FALSE	7	7.9	FALSE
BO122	-90.009	30.53924	29.3	29.2	30.6	30.7	36.3	37	FALSE	7	7.8	FALSE
BO124	-90.0088	30.53272	29.5	29.4	30.7	30.9	36.3	36.9	FALSE	6.8	7.5	FALSE
BO130	-90.0086	30.53185	29.6	29.4	30.8	30.9	36.3	36.9	FALSE	6.7	7.5	FALSE
BO174	-90.0053	30.52015	30.1	30.1	31.3	31.5	36.3	36.7	FALSE	6.2	6.6	FALSE
BO400	-89.9761	30.52225	30.1	30.0	31.3	31.4	36.3	36.7	FALSE	6.2	6.7	FALSE
BO408	-89.9756	30.52122	30.1	30.0	31.4	31.5	36.3	36.7	FALSE	6.2	6.7	FALSE

Table A-1 All Noise Sensitive Receptors in Alternative BO (2035) (Continued)

BOR			Existing Leq[1hr]		No Action Leq[1hr]		Alternative B/O Leq[1hr]			Change from Existing Leq[1hr]		
Receptor	Latitude	Longitude	AM	PM	AM	PM	AM	PM	Exceeds 66 dBA?	AM	PM	Exceeds 10 dBA?
BO416	-89.9748	30.52032	30.2	30.1	31.4	31.5	36.3	36.6	FALSE	6.1	6.5	FALSE
BO453	-89.9701	30.50125	31.1	31.1	32.3	32.4	36.3	36.7	FALSE	5.2	5.6	FALSE
BO458	-89.9695	30.49896	31.3	31.3	32.4	32.6	36.3	36.7	FALSE	5	5.4	FALSE
BO460	-89.9693	30.49654	31.4	31.4	32.6	32.7	36.3	36.7	FALSE	4.9	5.3	FALSE
BO461	-89.9693	30.49731	31.4	31.4	32.5	32.7	36.3	36.7	FALSE	4.9	5.3	FALSE
BO464	-89.9689	30.48985	31.9	31.9	33	33.2	36.3	36.6	FALSE	4.4	4.7	FALSE
BO465	-89.9687	30.49131	31.8	31.8	32.9	33.1	36.3	36.6	FALSE	4.5	4.8	FALSE
BO455	-89.9694	30.4917	31.8	31.8	32.9	33.1	36.4	36.8	FALSE	4.6	5	FALSE
BO456	-89.9695	30.49453	31.6	31.6	32.7	32.9	36.4	36.8	FALSE	4.8	5.2	FALSE
BO457	-89.9695	30.49535	31.5	31.5	32.6	32.8	36.4	36.8	FALSE	4.9	5.3	FALSE
BO459	-89.9693	30.49244	31.7	31.7	32.8	33	36.4	36.7	FALSE	4.7	5	FALSE
BO126	-90.009	30.54204	29.3	29.1	30.5	30.6	36.5	37.1	FALSE	7.2	8	FALSE
BO127	-90.009	30.54101	29.3	29.1	30.6	30.7	36.5	37.1	FALSE	7.2	8	FALSE
BO129	-90.0089	30.54167	29.3	29.1	30.6	30.6	36.5	37.2	FALSE	7.2	8.1	FALSE
BO134	-90.0083	30.53312	29.5	29.4	30.7	30.9	36.5	37.2	FALSE	7	7.8	FALSE
BO341	-89.9808	30.52968	29.9	29.7	31.2	31.2	36.5	37	FALSE	6.6	7.3	FALSE
BO391	-89.9771	30.52293	30.1	30.0	31.3	31.4	36.5	36.9	FALSE	6.4	6.9	FALSE
BO448	-89.9709	30.50306	31.0	31.0	32.2	32.3	36.5	36.9	FALSE	5.5	5.9	FALSE
BO449	-89.9709	30.50329	31.0	31.0	32.2	32.3	36.5	36.9	FALSE	5.5	5.9	FALSE
BO450	-89.9708	30.50181	31.1	31.1	32.2	32.4	36.5	36.9	FALSE	5.4	5.8	FALSE
BO452	-89.9701	30.49397	31.6	31.6	32.7	32.9	36.5	36.9	FALSE	4.9	5.3	FALSE
BO454	-89.9699	30.49644	31.4	31.4	32.6	32.8	36.5	36.8	FALSE	5.1	5.4	FALSE
BO132	-90.0089	30.5437	29.3	29.0	30.5	30.6	36.6	37.3	FALSE	7.3	8.3	FALSE
BO136	-90.0083	30.53593	29.4	29.3	30.7	30.8	36.6	37.3	FALSE	7.2	8	FALSE
BO149	-90.0077	30.53103	29.6	29.5	30.8	31	36.6	37.2	FALSE	7	7.7	FALSE
BO445	-89.9709	30.50051	31.2	31.2	32.3	32.5	36.6	37	FALSE	5.4	5.8	FALSE
BO447	-89.9709	30.50011	31.2	31.2	32.3	32.5	36.6	37	FALSE	5.4	5.8	FALSE
BO451	-89.9703	30.48705	32.1	32.1	33.2	33.4	36.6	36.9	FALSE	4.5	4.8	FALSE
BO106	-90.0085	30.48445	33.3	33.2	34.1	34.5	36.7	36.9	FALSE	3.4	3.7	FALSE
BO107	-90.0086	30.4848	33.2	33.2	34.1	34.4	36.7	36.9	FALSE	3.5	3.7	FALSE
BO112	-90.0083	30.48535	33.1	33.1	34	34.4	36.7	36.9	FALSE	3.6	3.8	FALSE
BO133	-90.0087	30.54412	29.3	29.0	30.5	30.6	36.7	37.3	FALSE	7.4	8.3	FALSE
BO439	-89.9717	30.50224	31.1	31.1	32.2	32.4	36.7	37.2	FALSE	5.6	6.1	FALSE
BO440	-89.9717	30.50256	31.1	31.0	32.2	32.4	36.7	37.1	FALSE	5.6	6.1	FALSE
BO441	-89.9717	30.50358	31.0	31.0	32.2	32.3	36.7	37.1	FALSE	5.7	6.1	FALSE
BO443	-89.971	30.49772	31.4	31.4	32.5	32.7	36.7	37.1	FALSE	5.3	5.7	FALSE
BO444	-89.971	30.49702	31.4	31.4	32.5	32.7	36.7	37.1	FALSE	5.3	5.7	FALSE
BO446	-89.9708	30.49651	31.4	31.4	32.6	32.8	36.7	37.1	FALSE	5.3	5.7	FALSE
BO115	-90.0081	30.48454	33.2	33.2	34.1	34.4	36.8	37	FALSE	3.6	3.8	FALSE
BO137	-90.0085	30.54311	29.3	29.1	30.6	30.6	36.8	37.5	FALSE	7.5	8.4	FALSE
BO142	-90.008	30.53515	29.5	29.3	30.7	30.8	36.8	37.5	FALSE	7.3	8.2	FALSE
BO153	-90.0074	30.53077	29.6	29.5	30.8	31	36.8	37.4	FALSE	7.2	7.9	FALSE
BO171	-90.0057	30.5257	29.9	29.8	31	31.2	36.8	37.3	FALSE	6.9	7.5	FALSE
BO433	-89.972	30.49419	31.6	31.6	32.7	32.9	36.8	37.2	FALSE	5.2	5.6	FALSE
BO434	-89.972	30.49369	31.6	31.6	32.8	33	36.8	37.2	FALSE	5.2	5.6	FALSE
BO436	-89.9717	30.49225	31.7	31.8	32.9	33.1	36.8	37.2	FALSE	5.1	5.4	FALSE
BO438	-89.9716	30.49249	31.7	31.7	32.8	33	36.8	37.1	FALSE	5.1	5.4	FALSE
BO442	-89.9711	30.4959	31.5	31.5	32.6	32.8	36.8	37.2	FALSE	5.3	5.7	FALSE
BO109	-90.0083	30.48246	33.5	33.5	34.3	34.7	36.9	37.1	FALSE	3.4	3.6	FALSE
BO144	-90.0064	30.48485	33.1	33.1	34	34.4	36.9	37.2	FALSE	3.8	4.1	FALSE
BO152	-90.0076	30.53315	29.5	29.4	30.7	30.9	36.9	37.5	FALSE	7.4	8.1	FALSE
BO201	-89.9999	30.50737	30.9	30.9	32	32.3	36.9	37.3	FALSE	6	6.4	FALSE
BO388	-89.9773	30.52137	30.1	30.0	31.4	31.5	36.9	37.3	FALSE	6.8	7.3	FALSE
BO431	-89.9723	30.50223	31.1	31.1	32.2	32.4	36.9	37.4	FALSE	5.8	6.3	FALSE
BO91	-90.0092	30.48139	33.7	33.7	34.5	34.9	37	37.1	FALSE	3.3	3.4	FALSE
BO96	-90.009	30.48144	33.7	33.7	34.5	34.9	37	37.1	FALSE	3.3	3.4	FALSE

Table A-1 All Noise Sensitive Receptors in Alternative BO (2035) (Continued)

BOR			Existing Leq[1hr]		No Action Leq[1hr]		Alternative B/O Leq[1hr]			Change from Existing Leq[1hr]		
Receptor	Latitude	Longitude	AM	PM	AM	PM	AM	PM	Exceeds 66 dBA?	AM	PM	Exceeds 10 dBA?
BO98	-90.0089	30.48173	33.6	33.6	34.5	34.8	37	37.1	FALSE	3.4	3.5	FALSE
BO128	-90.0072	30.48299	33.4	33.4	34.2	34.6	37	37.2	FALSE	3.6	3.8	FALSE
BO140	-90.0082	30.54159	29.3	29.1	30.6	30.7	37	37.7	FALSE	7.7	8.6	FALSE
BO211	-89.9993	30.50604	31.0	31.0	32.1	32.4	37	37.5	FALSE	6	6.5	FALSE
BO213	-89.9991	30.50528	31.1	31.0	32.1	32.4	37	37.5	FALSE	5.9	6.5	FALSE
BO425	-89.9728	30.49253	31.7	31.7	32.8	33.1	37	37.4	FALSE	5.3	5.7	FALSE
BO435	-89.972	30.49533	31.5	31.5	32.7	32.9	37	37.4	FALSE	5.5	5.9	FALSE
BO437	-89.9719	30.49659	31.4	31.4	32.6	32.8	37	37.4	FALSE	5.6	6	FALSE
BO146	-90.0081	30.54246	29.3	29.1	30.6	30.7	37.1	37.8	FALSE	7.8	8.7	FALSE
BO181	-90.0033	30.5208	30.1	30.0	31.2	31.5	37.1	37.5	FALSE	7	7.5	FALSE
BO182	-90.0033	30.52051	30.1	30.0	31.3	31.5	37.1	37.5	FALSE	7	7.5	FALSE
BO389	-89.9772	30.52012	30.2	30.1	31.4	31.5	37.1	37.5	FALSE	6.9	7.4	FALSE
BO424	-89.9729	30.49583	31.5	31.5	32.6	32.8	37.1	37.5	FALSE	5.6	6	FALSE
BO426	-89.9729	30.50251	31.1	31.0	32.2	32.4	37.1	37.6	FALSE	6	6.6	FALSE
BO429	-89.9728	30.50128	31.1	31.1	32.3	32.5	37.1	37.6	FALSE	6	6.5	FALSE
BO430	-89.9728	30.5016	31.1	31.1	32.3	32.4	37.1	37.6	FALSE	6	6.5	FALSE
BO432	-89.9721	30.49671	31.4	31.4	32.6	32.8	37.1	37.5	FALSE	5.7	6.1	FALSE
BO166	-90.0049	30.48337	33.2	33.2	34.1	34.5	37.2	37.5	FALSE	4	4.3	FALSE
BO178	-90.0031	30.48713	32.7	32.7	33.7	34	37.2	37.5	FALSE	4.5	4.8	FALSE
BO188	-90.002	30.51828	30.2	30.2	31.4	31.6	37.2	37.6	FALSE	7	7.4	FALSE
BO382	-89.9783	30.52157	30.1	30.0	31.4	31.5	37.2	37.7	FALSE	7.1	7.7	FALSE
BO384	-89.9778	30.52053	30.2	30.1	31.4	31.5	37.2	37.6	FALSE	7	7.5	FALSE
BO418	-89.9735	30.49451	31.6	31.6	32.7	32.9	37.2	37.7	FALSE	5.6	6.1	FALSE
BO420	-89.9732	30.49532	31.5	31.5	32.7	32.9	37.2	37.6	FALSE	5.7	6.1	FALSE
BO427	-89.9728	30.50068	31.2	31.2	32.3	32.5	37.2	37.6	FALSE	6	6.4	FALSE
BO428	-89.9728	30.50095	31.2	31.1	32.3	32.5	37.2	37.6	FALSE	6	6.5	FALSE
BO185	-90.0018	30.48901	32.5	32.5	33.5	33.8	37.3	37.7	FALSE	4.8	5.2	FALSE
BO187	-90.0024	30.52011	30.1	30.1	31.3	31.5	37.3	37.8	FALSE	7.2	7.7	FALSE
BO189	-90.0009	30.49119	32.3	32.3	33.2	33.6	37.3	37.7	FALSE	5	5.4	FALSE
BO217	-89.9982	30.5045	31.1	31.1	32.2	32.5	37.3	37.8	FALSE	6.2	6.7	FALSE
BO370	-89.9791	30.5228	30.1	30.0	31.3	31.4	37.3	37.7	FALSE	7.2	7.7	FALSE
BO415	-89.974	30.4918	31.8	31.8	32.9	33.1	37.3	37.8	FALSE	5.5	6	FALSE
BO155	-90.0076	30.54264	29.3	29.1	30.6	30.7	37.4	38.1	FALSE	8.1	9	FALSE
BO184	-90.0018	30.48831	32.6	32.6	33.5	33.9	37.4	37.7	FALSE	4.8	5.1	FALSE
BO414	-89.9741	30.49223	31.8	31.8	32.9	33.1	37.4	37.8	FALSE	5.6	6	FALSE
BO421	-89.9731	30.49728	31.4	31.4	32.5	32.7	37.4	37.8	FALSE	6	6.4	FALSE
BO154	-90.0076	30.54125	29.3	29.1	30.6	30.7	37.5	38.1	FALSE	8.2	9	FALSE
BO156	-90.0075	30.54196	29.3	29.1	30.6	30.7	37.5	38.2	FALSE	8.2	9.1	FALSE
BO165	-90.0065	30.53298	29.6	29.4	30.8	30.9	37.5	38.2	FALSE	7.9	8.8	FALSE
BO183	-90.0033	30.52322	30.0	29.9	31.1	31.3	37.5	38	FALSE	7.5	8.1	FALSE
BO367	-89.9793	30.52236	30.1	30.0	31.3	31.4	37.5	37.9	FALSE	7.4	7.9	FALSE
BO407	-89.9747	30.4914	31.8	31.8	32.9	33.2	37.5	38	FALSE	5.7	6.2	FALSE
BO409	-89.9746	30.4906	31.9	31.9	33	33.2	37.5	38	FALSE	5.6	6.1	FALSE
BO417	-89.9739	30.50281	31.1	31.0	32.2	32.4	37.5	38	FALSE	6.4	7	FALSE
BO221	-89.9971	30.50373	31.2	31.1	32.2	32.5	37.6	38.1	FALSE	6.4	7	FALSE
BO222	-89.9972	30.50725	30.9	30.9	32	32.3	37.6	38.1	FALSE	6.7	7.2	FALSE
BO357	-89.9799	30.52294	30.1	30.0	31.3	31.4	37.6	38	FALSE	7.5	8	FALSE
BO369	-89.9791	30.52175	30.1	30.0	31.3	31.5	37.6	38	FALSE	7.5	8	FALSE
BO406	-89.9748	30.49161	31.8	31.8	32.9	33.2	37.6	38	FALSE	5.8	6.2	FALSE
BO410	-89.9746	30.49338	31.7	31.7	32.8	33	37.6	38	FALSE	5.9	6.3	FALSE
BO179	-90.0028	30.48226	33.3	33.3	34.2	34.5	37.7	38	FALSE	4.4	4.7	FALSE
BO191	-90.0005	30.48799	32.6	32.6	33.5	33.9	37.7	38.1	FALSE	5.1	5.5	FALSE
BO193	-90.0009	30.51837	30.2	30.2	31.4	31.6	37.7	38.1	FALSE	7.5	7.9	FALSE
BO198	-89.9996	30.49106	32.3	32.2	33.2	33.6	37.7	38.1	FALSE	5.4	5.9	FALSE
BO405	-89.975	30.49433	31.6	31.6	32.7	33	37.7	38.2	FALSE	6.1	6.6	FALSE
BO412	-89.9746	30.50523	30.9	30.9	32.1	32.2	37.7	38.2	FALSE	6.8	7.3	FALSE

Table A-1 All Noise Sensitive Receptors in Alternative BO (2035) (Continued)

BOR			Existing Leq[1hr]		No Action Leq[1hr]		Alternative B/O Leq[1hr]			Change from Existing Leq[1hr]		
Receptor	Latitude	Longitude	AM	PM	AM	PM	AM	PM	Exceeds 66 dBA?	AM	PM	Exceeds 10 dBA?
BO175	-90.0057	30.53201	29.6	29.5	30.8	31	37.8	38.5	FALSE	8.2	9	FALSE
BO194	-90.0022	30.56222	30.1	29.5	31.5	31.4	37.8	38.6	FALSE	7.7	9.1	FALSE
BO399	-89.9753	30.49332	31.7	31.7	32.8	33	37.8	38.3	FALSE	6.1	6.6	FALSE
BO404	-89.9751	30.49709	31.4	31.4	32.6	32.8	37.8	38.4	FALSE	6.4	7	FALSE
BO199	-89.9995	30.48829	32.5	32.5	33.5	33.8	37.9	38.4	FALSE	5.4	5.9	FALSE
BO228	-89.9965	30.50206	31.3	31.3	32.3	32.6	37.9	38.4	FALSE	6.6	7.1	FALSE
BO287	-89.9856	30.53071	29.9	29.7	31.1	31.2	37.9	38.5	FALSE	8	8.8	FALSE
BO394	-89.976	30.48976	32.0	32.0	33.1	33.3	37.9	38.4	FALSE	5.9	6.4	FALSE
BO398	-89.9755	30.49483	31.6	31.6	32.7	32.9	37.9	38.4	FALSE	6.3	6.8	FALSE
BO186	-90.0037	30.556	29.6	29.2	31	30.9	38	38.8	FALSE	8.4	9.6	FALSE
BO200	-90.0004	30.51853	30.2	30.2	31.4	31.6	38	38.4	FALSE	7.8	8.2	FALSE
BO210	-89.9988	30.48969	32.4	32.4	33.3	33.7	38	38.5	FALSE	5.6	6.1	FALSE
BO215	-89.9983	30.49164	32.2	32.2	33.2	33.5	38	38.5	FALSE	5.8	6.3	FALSE
BO411	-89.9746	30.50143	31.1	31.1	32.3	32.5	38	38.5	FALSE	6.9	7.4	FALSE
BO167	-90.0067	30.54104	29.4	29.1	30.6	30.7	38.1	38.8	FALSE	8.7	9.7	FALSE
BO396	-89.976	30.49411	31.7	31.7	32.8	33	38.1	38.6	FALSE	6.4	6.9	FALSE
BO232	-89.9958	30.50155	31.3	31.3	32.4	32.6	38.2	38.7	FALSE	6.9	7.4	FALSE
BO372	-89.979	30.5193	30.2	30.1	31.4	31.5	38.2	38.6	FALSE	8	8.5	FALSE
BO168	-90.0065	30.54055	29.4	29.2	30.6	30.7	38.3	39	FALSE	8.9	9.8	FALSE
BO192	-90.0002	30.48266	33.2	33.2	34.1	34.4	38.3	38.7	FALSE	5.1	5.5	FALSE
BO209	-90.0011	30.56202	30.2	29.6	31.6	31.5	38.3	39.1	FALSE	8.1	9.5	FALSE
BO385	-89.9768	30.49092	31.9	31.9	33	33.2	38.3	38.8	FALSE	6.4	6.9	FALSE
BO390	-89.9764	30.49378	31.7	31.7	32.8	33	38.3	38.8	FALSE	6.6	7.1	FALSE
BO401	-89.9755	30.50479	30.9	30.9	32.1	32.3	38.3	38.8	FALSE	7.4	7.9	FALSE
BO206	-89.999	30.4855	32.8	32.8	33.7	34.1	38.4	38.9	FALSE	5.6	6.1	FALSE
BO371	-89.979	30.51857	30.3	30.2	31.5	31.6	38.4	38.8	FALSE	8.1	8.6	FALSE
BO169	-90.0063	30.53973	29.4	29.2	30.6	30.7	38.5	39.2	FALSE	9.1	10	FALSE
BO190	-90.0016	30.52267	30.0	29.9	31.2	31.4	38.5	38.9	FALSE	8.5	9	FALSE
BO202	-90.0003	30.51998	30.2	30.1	31.3	31.5	38.5	38.9	FALSE	8.3	8.8	FALSE
BO352	-89.9801	30.52056	30.2	30.1	31.4	31.5	38.5	38.9	FALSE	8.3	8.8	FALSE
BO387	-89.9767	30.49528	31.6	31.6	32.7	32.9	38.5	39.1	FALSE	6.9	7.5	FALSE
BO195	-89.9996	30.48128	33.3	33.3	34.2	34.5	38.6	39	FALSE	5.3	5.7	FALSE
BO225	-89.9965	30.49273	32.0	32.0	33	33.4	38.6	39.2	FALSE	6.6	7.2	FALSE
BO397	-89.9758	30.50432	31.0	31.0	32.1	32.3	38.6	39.1	FALSE	7.6	8.1	FALSE
BO403	-89.9753	30.50149	31.1	31.1	32.3	32.5	38.6	39.1	FALSE	7.5	8	FALSE
BO197	-89.9994	30.48107	33.3	33.3	34.2	34.6	38.7	39.2	FALSE	5.4	5.9	FALSE
BO203	-90.0003	30.52039	30.1	30.1	31.3	31.5	38.7	39.1	FALSE	8.6	9	FALSE
BO338	-89.9808	30.52121	30.1	30.0	31.4	31.5	38.7	39.2	FALSE	8.6	9.2	FALSE
BO281	-89.9862	30.52904	29.9	29.7	31.1	31.2	38.8	39.4	FALSE	8.9	9.7	FALSE
BO349	-89.9802	30.51989	30.2	30.1	31.4	31.5	38.8	39.2	FALSE	8.6	9.1	FALSE
BO381	-89.9776	30.49118	31.9	31.9	33	33.2	38.8	39.3	FALSE	6.9	7.4	FALSE
BO196	-90.002	30.56004	30.0	29.5	31.4	31.3	38.8	39.7	FALSE	8.8	10.2	TRUE
BO237	-89.9946	30.50052	31.4	31.4	32.4	32.7	38.9	39.5	FALSE	7.5	8.1	FALSE
BO316	-89.9827	30.52381	30.1	29.9	31.3	31.4	38.9	39.4	FALSE	8.8	9.5	FALSE
BO224	-89.9965	30.48985	32.3	32.3	33.3	33.6	39	39.6	FALSE	6.7	7.3	FALSE
BO219	-89.9997	30.56052	30.3	29.7	31.7	31.6	39	39.9	FALSE	8.7	10.2	TRUE
BO205	-90.0001	30.52106	30.1	30.0	31.3	31.5	39.1	39.5	FALSE	9	9.5	FALSE
BO378	-89.9787	30.51589	30.4	30.3	31.6	31.7	39.1	39.6	FALSE	8.7	9.3	FALSE
BO395	-89.9764	30.50391	31.0	31.0	32.1	32.3	39.1	39.7	FALSE	8.1	8.7	FALSE
BO230	-89.9956	30.49173	32.1	32.1	33.1	33.4	39.2	39.8	FALSE	7.1	7.7	FALSE
BO355	-89.9799	30.51853	30.3	30.2	31.5	31.6	39.2	39.7	FALSE	8.9	9.5	FALSE
BO376	-89.9787	30.51549	30.4	30.3	31.6	31.7	39.2	39.7	FALSE	8.8	9.4	FALSE
BO241	-89.9938	30.5012	31.3	31.3	32.4	32.7	39.3	40	FALSE	8	8.7	FALSE
BO306	-89.9835	30.52465	30.0	29.9	31.2	31.3	39.3	39.8	FALSE	9.3	9.9	FALSE
BO383	-89.9776	30.51071	30.6	30.6	31.8	32	39.3	39.9	FALSE	8.7	9.3	FALSE
BO212	-89.9984	30.47913	33.5	33.5	34.4	34.8	39.4	39.9	FALSE	5.9	6.4	FALSE

Table A-1 All Noise Sensitive Receptors in Alternative BO (2035) (Continued)

BOR			Existing Leq[1hr]		No Action Leq[1hr]		Alternative B/O Leq[1hr]			Change from Existing Leq[1hr]		
Receptor	Latitude	Longitude	AM	PM	AM	PM	AM	PM	Exceeds 66 dBA?	AM	PM	Exceeds 10 dBA?
BO366	-89.9785	30.49165	31.9	31.9	33	33.2	39.4	40	FALSE	7.5	8.1	FALSE
BO377	-89.9787	30.51465	30.4	30.4	31.6	31.8	39.4	40	FALSE	9	9.6	FALSE
BO229	-89.9967	30.51604	30.4	30.3	31.5	31.7	39.5	39.9	FALSE	9.1	9.6	FALSE
BO364	-89.9786	30.49196	31.8	31.9	32.9	33.2	39.6	40.2	FALSE	7.8	8.3	FALSE
BO379	-89.9786	30.51382	30.5	30.4	31.6	31.8	39.6	40.2	FALSE	9.1	9.8	FALSE
BO218	-89.9974	30.48098	33.3	33.3	34.2	34.5	39.7	40.3	FALSE	6.4	7	FALSE
BO359	-89.9789	30.49276	31.8	31.8	32.9	33.1	39.9	40.5	FALSE	8.1	8.7	FALSE
BO386	-89.977	30.50259	31.1	31.1	32.2	32.4	39.9	40.4	FALSE	8.8	9.3	FALSE
BO214	-89.9995	30.5215	30.1	30.0	31.2	31.4	39.9	40.4	FALSE	9.8	10.4	TRUE
BO373	-89.9788	30.5134	30.5	30.4	31.7	31.8	39.9	40.5	FALSE	9.4	10.1	TRUE
BO346	-89.9795	30.48974	32.0	32.0	33.1	33.4	40	40.7	FALSE	8	8.7	FALSE
BO374	-89.9787	30.51295	30.5	30.5	31.7	31.8	40	40.5	FALSE	9.5	10	FALSE
BO227	-89.9984	30.5613	30.5	29.9	31.9	31.8	40	40.8	FALSE	9.5	10.9	TRUE
BO368	-89.9791	30.51429	30.4	30.4	31.6	31.8	40	40.5	FALSE	9.6	10.1	TRUE
BO358	-89.9789	30.49401	31.7	31.7	32.8	33	40.1	40.7	FALSE	8.4	9	FALSE
BO375	-89.9787	30.51231	30.5	30.5	31.7	31.9	40.1	40.7	FALSE	9.6	10.2	TRUE
BO353	-89.9792	30.49264	31.8	31.8	32.9	33.1	40.2	40.9	FALSE	8.4	9.1	FALSE
BO231	-89.9978	30.56202	30.6	30.0	32.1	31.9	40.2	41	FALSE	9.6	11	TRUE
BO380	-89.9785	30.51139	30.6	30.5	31.8	31.9	40.2	40.8	FALSE	9.6	10.3	TRUE
BO220	-89.9968	30.48038	33.3	33.3	34.2	34.6	40.3	40.9	FALSE	7	7.6	FALSE
BO223	-89.9988	30.56009	30.3	29.7	31.8	31.6	40.3	41.2	FALSE	10	11.5	TRUE
BO235	-89.995	30.48865	32.4	32.4	33.4	33.7	40.4	41	FALSE	8	8.6	FALSE
BO248	-89.9927	30.50781	30.9	30.8	32	32.2	40.4	41	FALSE	9.5	10.2	TRUE
BO351	-89.98	30.51557	30.4	30.3	31.6	31.7	40.5	41.1	FALSE	10.1	10.8	TRUE
BO251	-89.9922	30.50309	31.2	31.1	32.3	32.5	40.7	41.4	FALSE	9.5	10.3	TRUE
BO321	-89.9821	30.51978	30.2	30.1	31.4	31.5	40.7	41.2	FALSE	10.5	11.1	TRUE
BO350	-89.98	30.51529	30.4	30.3	31.6	31.7	40.7	41.2	FALSE	10.3	10.9	TRUE
BO354	-89.9799	30.51501	30.4	30.3	31.6	31.7	40.7	41.2	FALSE	10.3	10.9	TRUE
BO247	-89.9926	30.49772	31.6	31.6	32.6	32.9	40.8	41.5	FALSE	9.2	9.9	FALSE
BO303	-89.9838	30.52275	30.1	30.0	31.3	31.4	40.8	41.3	FALSE	10.7	11.3	TRUE
BO242	-89.9934	30.49288	32.0	32.0	33	33.3	40.9	41.6	FALSE	8.9	9.6	FALSE
BO291	-89.985	30.52369	30.0	29.9	31.3	31.4	40.9	41.3	FALSE	10.9	11.4	TRUE
BO328	-89.9816	30.51852	30.3	30.2	31.5	31.6	41	41.5	FALSE	10.7	11.3	TRUE
BO333	-89.9804	30.49055	32.0	32.0	33.1	33.3	41.1	41.8	FALSE	9.1	9.8	FALSE
BO339	-89.9799	30.4932	31.8	31.8	32.9	33.1	41.1	41.8	FALSE	9.3	10	FALSE
BO216	-89.9989	30.5222	30.1	30.0	31.2	31.4	41.1	41.6	FALSE	11	11.6	TRUE
BO356	-89.9797	30.51285	30.5	30.5	31.7	31.8	41.3	41.9	FALSE	10.8	11.4	TRUE
BO361	-89.9794	30.51138	30.6	30.5	31.8	31.9	41.3	41.9	FALSE	10.7	11.4	TRUE
BO239	-89.9935	30.49074	32.2	32.2	33.2	33.5	41.4	42.1	FALSE	9.2	9.9	FALSE
BO250	-89.9921	30.49824	31.5	31.5	32.6	32.9	41.4	42.1	FALSE	9.9	10.6	TRUE
BO335	-89.9803	30.49188	31.9	31.9	33	33.2	41.4	42.1	FALSE	9.5	10.2	TRUE
BO345	-89.9797	30.49601	31.6	31.6	32.7	32.9	41.4	42.1	FALSE	9.8	10.5	TRUE
BO226	-89.996	30.47872	33.5	33.5	34.4	34.7	41.5	42.1	FALSE	8	8.6	FALSE
BO300	-89.9841	30.52221	30.1	30.0	31.3	31.4	41.5	42	FALSE	11.4	12	TRUE
BO315	-89.9826	30.51951	30.2	30.1	31.4	31.5	41.5	42	FALSE	11.3	11.9	TRUE
BO362	-89.9793	30.51014	30.7	30.6	31.8	32	41.5	42.1	FALSE	10.8	11.5	TRUE
BO363	-89.9792	30.50988	30.7	30.6	31.8	32	41.5	42.2	FALSE	10.8	11.6	TRUE
BO360	-89.9794	30.51047	30.6	30.6	31.8	32	41.6	42.3	FALSE	11	11.7	TRUE
BO365	-89.9792	30.50935	30.7	30.7	31.9	32	41.6	42.2	FALSE	10.9	11.5	TRUE
BO252	-89.992	30.49697	31.6	31.6	32.7	33	41.8	42.5	FALSE	10.2	10.9	TRUE
BO253	-89.9918	30.49844	31.5	31.5	32.6	32.8	41.8	42.5	FALSE	10.3	11	TRUE
BO336	-89.9802	30.49557	31.6	31.6	32.7	32.9	42	42.7	FALSE	10.4	11.1	TRUE
BO340	-89.98	30.49686	31.5	31.5	32.6	32.8	42	42.7	FALSE	10.5	11.2	TRUE
BO245	-89.9926	30.49185	32.1	32.1	33.1	33.4	42.2	43	FALSE	10.1	10.9	TRUE
BO279	-89.9863	30.52403	30.0	29.9	31.2	31.4	42.3	42.7	FALSE	12.3	12.8	TRUE
BO323	-89.981	30.49157	31.9	31.9	33	33.2	42.3	43	FALSE	10.4	11.1	TRUE

Table A-1 All Noise Sensitive Receptors in Alternative BO (2035) (Continued)

BOR			Existing Leq[1hr]		No Action Leq[1hr]		Alternative B/O Leq[1hr]			Change from Existing Leq[1hr]		
Receptor	Latitude	Longitude	AM	PM	AM	PM	AM	PM	Exceeds 66 dBA?	AM	PM	Exceeds 10 dBA?
BO343	-89.9803	30.51264	30.5	30.5	31.7	31.9	42.4	43	FALSE	11.9	12.5	TRUE
BO236	-89.9967	30.56135	30.7	30.1	32.2	32	42.5	43.4	FALSE	11.8	13.3	TRUE
BO255	-89.9915	30.49701	31.6	31.6	32.7	32.9	42.5	43.3	FALSE	10.9	11.7	TRUE
BO244	-89.9927	30.49037	32.2	32.2	33.2	33.5	42.6	43.4	FALSE	10.4	11.2	TRUE
BO275	-89.9867	30.52451	30.0	29.9	31.2	31.3	42.6	43	FALSE	12.6	13.1	TRUE
BO320	-89.9812	30.49187	31.9	31.9	33	33.2	42.7	43.5	FALSE	10.8	11.6	TRUE
BO347	-89.98	30.50564	30.9	30.9	32.1	32.3	43	43.7	FALSE	12.1	12.8	TRUE
BO249	-89.992	30.49212	32.0	32.0	33	33.3	43.1	43.9	FALSE	11.1	11.9	TRUE
BO274	-89.987	30.52456	30.0	29.9	31.2	31.3	43.1	43.5	FALSE	13.1	13.6	TRUE
BO334	-89.9811	30.51421	30.5	30.4	31.6	31.8	43.1	43.7	FALSE	12.6	13.3	TRUE
BO278	-89.9864	30.52328	30.1	30.0	31.3	31.4	43.4	43.8	FALSE	13.3	13.8	TRUE
BO344	-89.9802	30.50964	30.7	30.6	31.8	32	43.4	44.1	FALSE	12.7	13.5	TRUE
BO272	-89.9874	30.52465	30.0	29.9	31.2	31.3	43.5	44	FALSE	13.5	14.1	TRUE
BO330	-89.9815	30.51487	30.4	30.4	31.6	31.8	43.5	44.1	FALSE	13.1	13.7	TRUE
BO282	-89.9857	30.52215	30.1	30.0	31.3	31.4	43.6	44	FALSE	13.5	14	TRUE
BO258	-89.9909	30.49706	31.6	31.6	32.7	32.9	43.7	44.5	FALSE	12.1	12.9	TRUE
BO329	-89.9815	30.51459	30.4	30.4	31.6	31.8	43.7	44.3	FALSE	13.3	13.9	TRUE
BO348	-89.9799	30.50746	30.8	30.8	32	32.1	43.7	44.4	FALSE	12.9	13.6	TRUE
BO325	-89.9817	30.51514	30.4	30.3	31.6	31.7	43.8	44.4	FALSE	13.4	14.1	TRUE
BO243	-89.9951	30.56292	31.2	30.5	32.7	32.5	43.9	44.9	FALSE	12.7	14.4	TRUE
BO271	-89.9877	30.52473	30.0	29.9	31.2	31.3	43.9	44.3	FALSE	13.9	14.4	TRUE
BO322	-89.9818	30.51539	30.4	30.3	31.6	31.7	43.9	44.5	FALSE	13.5	14.2	TRUE
BO342	-89.9802	30.5088	30.7	30.7	31.9	32.1	43.9	44.6	FALSE	13.2	13.9	TRUE
BO311	-89.9819	30.49224	31.9	31.9	32.9	33.2	44.1	44.9	FALSE	12.2	13	TRUE
BO337	-89.9807	30.51077	30.6	30.6	31.8	32	44.1	44.8	FALSE	13.5	14.2	TRUE
BO204	-90.0006	30.53242	29.7	29.5	30.9	31	44.2	45	FALSE	14.5	15.5	TRUE
BO261	-89.9899	30.50306	31.2	31.1	32.2	32.5	44.3	45.1	FALSE	13.1	14	TRUE
BO270	-89.988	30.52479	30.0	29.9	31.2	31.3	44.3	44.7	FALSE	14.3	14.8	TRUE
BO260	-89.9899	30.50249	31.2	31.2	32.3	32.5	44.4	45.2	FALSE	13.2	14	TRUE
BO277	-89.9864	30.52266	30.1	30.0	31.3	31.4	44.4	44.9	FALSE	14.3	14.9	TRUE
BO332	-89.9811	30.51175	30.6	30.5	31.7	31.9	44.5	45.2	FALSE	13.9	14.7	TRUE
BO233	-89.9963	30.52097	30.1	30.0	31.3	31.5	44.7	45.1	FALSE	14.6	15.1	TRUE
BO256	-89.9913	30.49215	32.0	32.0	33	33.3	44.7	45.5	FALSE	12.7	13.5	TRUE
BO313	-89.9819	30.49364	31.8	31.8	32.8	33.1	44.7	45.5	FALSE	12.9	13.7	TRUE
BO318	-89.9816	30.49528	31.6	31.6	32.7	33	44.7	45.5	FALSE	13.1	13.9	TRUE
BO207	-90.0003	30.53294	29.7	29.5	30.9	31	44.8	45.7	FALSE	15.1	16.2	TRUE
BO208	-90.0003	30.53201	29.7	29.5	30.9	31	44.8	45.6	FALSE	15.1	16.1	TRUE
BO307	-89.9824	30.49108	32.0	32.0	33	33.3	44.8	45.6	FALSE	12.8	13.6	TRUE
BO327	-89.9815	30.513	30.5	30.5	31.7	31.8	44.8	45.5	FALSE	14.3	15	TRUE
BO259	-89.9911	30.52958	29.8	29.7	31.1	31.2	44.9	45.7	FALSE	15.1	16	TRUE
BO324	-89.9817	30.5136	30.5	30.4	31.7	31.8	44.9	45.6	FALSE	14.4	15.2	TRUE
BO326	-89.9816	30.51331	30.5	30.4	31.7	31.8	45	45.6	FALSE	14.5	15.2	TRUE
BO263	-89.9895	30.50568	31.0	30.9	32.1	32.3	45.4	46.2	FALSE	14.4	15.3	TRUE
BO283	-89.9857	30.52083	30.2	30.1	31.4	31.5	45.5	45.9	FALSE	15.3	15.8	TRUE
BO319	-89.9821	30.51437	30.4	30.4	31.6	31.8	45.6	46.3	FALSE	15.2	15.9	TRUE
BO302	-89.9828	30.4906	32.0	32.0	33.1	33.3	45.7	46.5	FALSE	13.7	14.5	TRUE
BO312	-89.9826	30.51553	30.4	30.3	31.6	31.7	45.9	46.5	FALSE	15.5	16.2	TRUE
BO314	-89.9825	30.51527	30.4	30.3	31.6	31.7	45.9	46.6	FALSE	15.5	16.3	TRUE
BO317	-89.9824	30.51494	30.4	30.4	31.6	31.8	45.9	46.5	FALSE	15.5	16.1	TRUE
BO310	-89.9829	30.51608	30.4	30.3	31.5	31.7	46.2	46.7	FALSE	15.8	16.4	TRUE
BO257	-89.9909	30.49108	32.1	32.1	33.1	33.4	46.4	47.3	FALSE	14.3	15.2	TRUE
BO331	-89.9812	30.5079	30.8	30.8	31.9	32.1	46.4	47.2	FALSE	15.6	16.4	TRUE
BO240	-89.9931	30.47972	33.3	33.3	34.2	34.5	46.8	47.6	FALSE	13.5	14.3	TRUE
BO308	-89.9824	30.49504	31.7	31.7	32.7	33	46.8	47.6	FALSE	15.1	15.9	TRUE
BO264	-89.9891	30.50217	31.2	31.2	32.3	32.5	46.9	47.7	FALSE	15.7	16.5	TRUE
BO286	-89.9852	30.5191	30.2	30.1	31.4	31.6	47.5	47.9	FALSE	17.3	17.8	TRUE

Table A-1 All Noise Sensitive Receptors in Alternative BO (2035) (Continued)												
BOR			Existing Leq[1hr]		No Action Leq[1hr]		Alternative B/O Leq[1hr]			Change from Existing Leq[1hr]		
Receptor	Latitude	Longitude	AM	PM	AM	PM	AM	PM	Exceeds 66 dBA?	AM	PM	Exceeds 10 dBA?
BO262	-89.9895	30.49734	31.6	31.6	32.6	32.9	47.6	48.4	FALSE	16	16.8	TRUE
BO284	-89.9854	30.51937	30.2	30.1	31.4	31.6	47.6	48	FALSE	17.4	17.9	TRUE
BO309	-89.9824	30.49657	31.5	31.5	32.6	32.9	47.6	48.4	FALSE	16.1	16.9	TRUE
BO298	-89.9844	30.51764	30.3	30.2	31.5	31.6	48.3	48.8	FALSE	18	18.6	TRUE
BO265	-89.9897	30.52444	30.0	29.9	31.2	31.3	48.6	48.9	FALSE	18.6	19	TRUE
BO294	-89.9848	30.5179	30.3	30.2	31.5	31.6	48.8	49.3	FALSE	18.5	19.1	TRUE
BO305	-89.9833	30.51488	30.4	30.4	31.6	31.8	49	49.6	FALSE	18.6	19.2	TRUE
BO266	-89.9884	30.50432	31.1	31.0	32.2	32.4	49.1	50	FALSE	18	19	TRUE
BO267	-89.9884	30.5056	31.0	30.9	32.1	32.3	49.1	50	FALSE	18.1	19.1	TRUE
BO301	-89.9831	30.49492	31.7	31.7	32.8	33	49.2	50	FALSE	17.5	18.3	TRUE
BO238	-89.9945	30.52084	30.1	30.0	31.3	31.5	49.7	50.1	FALSE	19.6	20.1	TRUE
BO295	-89.9845	30.51649	30.3	30.3	31.5	31.7	51.1	51.6	FALSE	20.8	21.3	TRUE
BO246	-89.9921	30.47912	33.3	33.3	34.2	34.6	51.4	52.3	FALSE	18.1	19	TRUE
BO293	-89.984	30.49276	31.9	31.9	32.9	33.2	52	52.9	FALSE	20.1	21	TRUE
BO290	-89.9841	30.49246	31.9	31.9	32.9	33.2	52.1	53	FALSE	20.2	21.1	TRUE
BO299	-89.9835	30.49655	31.6	31.6	32.6	32.9	52.3	53.2	FALSE	20.7	21.6	TRUE
BO268	-89.9884	30.52146	30.1	30.0	31.3	31.5	52.5	52.7	FALSE	22.4	22.7	TRUE
BO297	-89.9844	30.5157	30.4	30.3	31.6	31.7	52.6	53.2	FALSE	22.2	22.9	TRUE
BO304	-89.983	30.50488	31.0	31.0	32.1	32.3	53.9	54.8	FALSE	22.9	23.8	TRUE
BO285	-89.9845	30.49221	31.9	31.9	33	33.2	54	54.9	FALSE	22.1	23	TRUE
BO269	-89.9875	30.50329	31.1	31.1	32.2	32.5	54.1	55	FALSE	23	23.9	TRUE
BO292	-89.9841	30.49532	31.7	31.7	32.7	33	55.1	56	FALSE	23.4	24.3	TRUE
BO280	-89.9852	30.48992	32.1	32.1	33.2	33.4	56.5	57.4	FALSE	24.4	25.3	TRUE
BO296	-89.9843	30.51347	30.5	30.4	31.7	31.8	56.6	57.3	FALSE	26.1	26.9	TRUE
BO288	-89.9845	30.49565	31.6	31.6	32.7	33	57.7	58.6	FALSE	26.1	27	TRUE
BO234	-89.9964	30.52694	29.9	29.8	31.1	31.2	58	58.9	FALSE	28.1	29.1	TRUE
BO276	-89.9854	30.49003	32.1	32.1	33.1	33.4	58.3	59.2	FALSE	26.2	27.1	TRUE
BO273	-89.9867	30.50415	31.1	31.0	32.2	32.4	60.5	61.4	FALSE	29.4	30.4	TRUE
BO289	-89.9846	30.50436	31.0	31.0	32.1	32.4	64.7	65.6	FALSE	33.7	34.6	TRUE
BO254	-89.9923	30.52368	30.0	29.9	31.2	31.4	66.8	67	TRUE	36.8	37.1	TRUE

Table A-2 All Noise Sensitive Receptors in Alternative J (2035)												
			Existing Leq[1hr]		No Action Leq[1hr]		Alternative J Leq[1hr]			Change from Existing Leq[1hr]		
Receptor	Latitude	Longitude	AM	PM	AM	PM	AM	PM	Exceeds 66 dBA?	AM	PM	Exceeds 10 dBA?
S3	-89.9021	30.55847	30.3	30	31.9	31	36.2	36.5	FALSE	5.9	6.5	FALSE
S4	-89.9023	30.55848	30.2	30	31.9	31	36.1	36.4	FALSE	5.9	6.4	FALSE
S5	-89.9019	30.55853	30.3	30	31.9	31	36.3	36.6	FALSE	6	6.6	FALSE
S6	-89.9026	30.55885	30.2	30	31.8	31	36.1	36.3	FALSE	5.9	6.3	FALSE
S7	-89.886	30.56301	31.8	31.7	33.6	32.1	38.2	39.5	FALSE	6.4	7.8	FALSE
S15	-89.8813	30.5702	32.9	32.7	34.7	32.9	35.6	35.4	FALSE	2.7	2.7	FALSE
S17	-89.8833	30.57036	32.3	32.1	34.1	32.5	36	35.9	FALSE	3.7	3.8	FALSE
S19	-89.8833	30.57078	32.3	32.1	34.1	32.5	35.9	35.8	FALSE	3.6	3.7	FALSE
S21	-89.8902	30.57105	31.2	30.9	32.9	31.6	38.8	40.8	FALSE	7.6	9.9	FALSE
S22	-89.8829	30.57132	32.4	32.2	34.2	32.6	35.8	35.7	FALSE	3.4	3.5	FALSE
S23	-89.8899	30.57128	31.2	31	33	31.6	38.5	40.2	FALSE	7.3	9.2	FALSE
S25	-89.8893	30.57305	31.3	31.1	33	31.7	37.6	38.7	FALSE	6.3	7.6	FALSE
S27	-89.8887	30.57416	31.4	31.1	33.1	31.8	37.1	37.8	FALSE	5.7	6.7	FALSE
S29	-89.8868	30.57467	31.6	31.4	33.4	32	36.3	36.5	FALSE	4.7	5.1	FALSE
S30	-89.8906	30.57471	31.2	30.9	32.9	31.6	38	39.4	FALSE	6.8	8.5	FALSE
S31	-89.892	30.57578	31	30.8	32.8	31.5	38.7	40.7	FALSE	7.7	9.9	FALSE
S32	-89.8891	30.57632	31.3	31.1	33.1	31.7	37	37.5	FALSE	5.7	6.4	FALSE
S33	-89.8867	30.57642	31.7	31.4	33.5	32	36.1	36.2	FALSE	4.4	4.8	FALSE
S34	-89.8907	30.57683	31.2	30.9	32.9	31.6	37.6	38.6	FALSE	6.4	7.7	FALSE
S35	-89.8897	30.57696	31.3	31	33	31.7	37.1	37.7	FALSE	5.8	6.7	FALSE
S36	-89.8879	30.57749	31.5	31.3	33.3	31.9	36.3	36.5	FALSE	4.8	5.2	FALSE
S37	-89.8913	30.57745	31.1	30.9	32.9	31.6	37.8	39	FALSE	6.7	8.1	FALSE
S38	-89.8888	30.57763	31.4	31.1	33.2	31.8	36.6	36.9	FALSE	5.2	5.8	FALSE
S39	-89.8888	30.57786	31.4	31.1	33.2	31.8	36.6	36.9	FALSE	5.2	5.8	FALSE
S41	-89.8889	30.57834	31.4	31.1	33.2	31.8	36.5	36.8	FALSE	5.1	5.7	FALSE
S43	-89.8927	30.57884	31	30.7	32.8	31.6	38.4	40.1	FALSE	7.4	9.4	FALSE
S50	-89.8937	30.58193	31.1	30.7	32.8	31.6	38.3	39.7	FALSE	7.2	9	FALSE
S51	-89.8886	30.58205	31.5	31.2	33.3	31.9	36	36.1	FALSE	4.5	4.9	FALSE
S53	-89.8912	30.58218	31.3	31	33	31.8	36.9	37.3	FALSE	5.6	6.3	FALSE
S64	-89.8973	30.59182	31.6	31.1	33.3	32.3	38.8	40.4	FALSE	7.2	9.3	FALSE
S66	-89.889	30.59317	32.1	31.7	33.9	32.5	35.5	35.3	FALSE	3.4	3.6	FALSE
S67	-89.8901	30.59323	32	31.7	33.8	32.5	35.7	35.6	FALSE	3.7	3.9	FALSE
S68	-89.8951	30.59329	31.8	31.4	33.5	32.4	37.4	38.1	FALSE	5.6	6.7	FALSE
S72	-89.9114	30.59509	32.2	31.4	33.8	33.1	37.2	38	FALSE	5	6.6	FALSE
S73	-89.8968	30.59572	32.1	31.6	33.8	32.7	38.6	40.1	FALSE	6.5	8.5	FALSE
S76	-89.8963	30.59684	32.3	31.8	34.1	32.9	38.3	39.6	FALSE	6	7.8	FALSE
S77	-89.8956	30.59725	32.4	31.9	34.2	33	37.9	38.8	FALSE	5.5	6.9	FALSE
S78	-89.8895	30.59782	32.7	32.3	34.5	33.1	35.6	35.4	FALSE	2.9	3.1	FALSE
S79	-89.8938	30.59829	32.6	32.2	34.4	33.1	37	37.4	FALSE	4.4	5.2	FALSE
S80	-89.8961	30.59827	32.6	32.1	34.4	33.2	38.3	39.7	FALSE	5.7	7.6	FALSE
S81	-89.893	30.59846	32.7	32.3	34.5	33.2	36.7	36.9	FALSE	4	4.6	FALSE
S82	-89.8972	30.59883	32.7	32.2	34.4	33.3	39.4	41.7	FALSE	6.7	9.5	FALSE
S83	-89.8969	30.59884	32.7	32.2	34.5	33.3	39	41	FALSE	6.3	8.8	FALSE
S84	-89.8969	30.60008	33	32.5	34.8	33.6	39.3	41.6	FALSE	6.3	9.1	FALSE
S85	-89.8951	30.60098	33.3	32.9	35.1	33.8	38	39.1	FALSE	4.7	6.2	FALSE
S86	-89.8943	30.60141	33.5	33.1	35.3	33.9	37.6	38.4	FALSE	4.1	5.3	FALSE
S89	-89.8888	30.60193	33.9	33.6	35.8	34.1	35.7	35.4	FALSE	1.8	1.8	FALSE
S90	-89.8969	30.60176	33.5	33.1	35.4	34.1	39.7	42.4	FALSE	6.2	9.3	FALSE
S92	-89.8873	30.60243	34.2	33.9	36.1	34.3	35.5	35.1	FALSE	1.3	1.2	FALSE
S93	-89.8907	30.60263	34.1	33.8	36	34.4	36.3	36.1	FALSE	2.2	2.3	FALSE
S94	-89.89	30.60267	34.2	33.9	36.1	34.4	36.1	35.9	FALSE	1.9	2	FALSE
S1	-89.8875	30.55042	31.9	31.8	33.6	32.2	67.6	69.9	TRUE	35.7	38.1	TRUE
S2	-89.8876	30.55149	31.8	31.7	33.6	32.1	58.5	64.8	FALSE	26.7	33.1	TRUE
S8	-89.8929	30.5638	30.9	30.7	32.6	31.4	59.3	65.2	FALSE	28.4	34.5	TRUE

Table A-2 All Noise Sensitive Receptors in Alternative J (2035) (Continued)												
			Existing Leq[1hr]		No Action Leq[1hr]		Alternative J Leq[1hr]			Change from Existing Leq[1hr]		
Receptor	Latitude	Longitude	AM	PM	AM	PM	AM	PM	Exceeds 66 dBA?	AM	PM	Exceeds 10 dBA?
S9	-89.891	30.56708	31.1	30.9	32.8	31.5	41.8	46.4	FALSE	10.7	15.5	TRUE
S10	-89.8915	30.56762	31	30.8	32.7	31.5	42.3	47.4	FALSE	11.3	16.6	TRUE
S11	-89.89	30.56806	31.2	31	32.9	31.6	39.6	42.5	FALSE	8.4	11.5	TRUE
S12	-89.8922	30.56834	30.9	30.7	32.7	31.4	43.4	49.3	FALSE	12.5	18.6	TRUE
S13	-89.8937	30.56966	30.8	30.6	32.5	31.4	47	55	FALSE	16.2	24.4	TRUE
S14	-89.8912	30.56994	31.1	30.8	32.8	31.5	40.2	43.6	FALSE	9.1	12.8	TRUE
S16	-89.8937	30.57003	30.8	30.6	32.5	31.4	46.3	53.9	FALSE	15.5	23.3	TRUE
S18	-89.891	30.57059	31.1	30.8	32.8	31.5	39.7	42.7	FALSE	8.6	11.9	TRUE
S20	-89.8909	30.57101	31.1	30.9	32.8	31.6	39.4	42.1	FALSE	8.3	11.2	TRUE
S24	-89.8927	30.57143	30.9	30.7	32.6	31.4	41.7	46.3	FALSE	10.8	15.6	TRUE
S26	-89.8927	30.57302	30.9	30.7	32.7	31.5	40.8	44.7	FALSE	9.9	14	TRUE
S28	-89.8922	30.57411	31	30.7	32.7	31.5	39.6	42.4	FALSE	8.6	11.7	TRUE
S40	-89.8932	30.57811	31	30.7	32.7	31.5	39	41.2	FALSE	8	10.5	TRUE
S42	-89.9005	30.57849	30.7	30.3	32.3	31.4	50	59.4	FALSE	19.3	29.1	TRUE
S44	-89.8973	30.57889	30.8	30.4	32.5	31.4	47.3	55.4	FALSE	16.5	25	TRUE
S45	-89.8944	30.57922	30.9	30.6	32.7	31.5	39.8	42.8	FALSE	8.9	12.2	TRUE
S46	-89.8976	30.57976	30.8	30.4	32.5	31.5	47.1	55.1	FALSE	16.3	24.7	TRUE
S47	-89.8978	30.58011	30.8	30.4	32.5	31.5	47.3	55.4	FALSE	16.5	25	TRUE
S48	-89.8958	30.58032	30.9	30.6	32.6	31.5	41.3	45.7	FALSE	10.4	15.1	TRUE
S49	-89.8986	30.58037	30.8	30.4	32.5	31.5	51.8	60.6	FALSE	21	30.2	TRUE
S52	-89.8978	30.58187	30.9	30.5	32.6	31.5	44.6	51.2	FALSE	13.7	20.7	TRUE
S54	-89.8973	30.58235	30.9	30.5	32.6	31.6	42.8	48.2	FALSE	11.9	17.7	TRUE
S55	-89.8968	30.58304	31	30.6	32.7	31.6	41.1	45.3	FALSE	10.1	14.7	TRUE
S56	-89.8976	30.58309	30.9	30.6	32.6	31.6	42.8	48.2	FALSE	11.9	17.6	TRUE
S57	-89.8959	30.58326	31	30.6	32.7	31.6	39.8	42.8	FALSE	8.8	12.2	TRUE
S58	-89.8976	30.58427	31	30.6	32.7	31.7	41.8	46.5	FALSE	10.8	15.9	TRUE
S59	-89.8998	30.58565	31	30.6	32.7	31.8	47.1	54.9	FALSE	16.1	24.3	TRUE
S60	-89.9049	30.58637	31	30.5	32.7	31.9	43.9	50.8	FALSE	12.9	20.3	TRUE
S61	-89.8996	30.58696	31.1	30.7	32.8	31.8	44.4	50.8	FALSE	13.3	20.1	TRUE
S62	-89.9015	30.58787	31.2	30.7	32.9	31.9	52	60.6	FALSE	20.8	29.9	TRUE
S63	-89.9018	30.59073	31.4	30.9	33.1	32.2	48.2	56.2	FALSE	16.8	25.3	TRUE
S65	-89.8988	30.59249	31.6	31.1	33.4	32.3	40.3	43.2	FALSE	8.7	12.1	TRUE
S69	-89.8983	30.59356	31.8	31.3	33.5	32.5	39.7	42.1	FALSE	7.9	10.8	TRUE
S70	-89.8983	30.59433	31.9	31.4	33.6	32.6	39.7	42.2	FALSE	7.8	10.8	TRUE
S71	-89.8996	30.59452	31.9	31.4	33.6	32.6	41.7	45.9	FALSE	9.8	14.5	TRUE
S74	-89.9052	30.59581	32.1	31.5	33.8	33	45.8	53.4	FALSE	13.7	21.9	TRUE
S75	-89.9082	30.59591	32.2	31.5	33.9	33.1	39.3	42.6	FALSE	7.1	11.1	TRUE
S87	-89.9067	30.60133	33.2	32.5	34.9	34.1	39.9	43.3	FALSE	6.7	10.8	TRUE
S88	-89.8981	30.60166	33.5	32.9	35.3	34	41.5	45.7	FALSE	8	12.8	TRUE
S91	-89.8974	30.60182	33.6	33	35.4	34.1	40.4	43.7	FALSE	6.8	10.7	TRUE

Table A-3 All Noise Sensitive Receptors in Alternative P (2035)												
PR			Existing Leq [1hr]		No Action Leq[1hr]		Alternative P Leq[1hr]			Change from Existing Leq[1hr]		
Receptor	Latitude	Longitude	AM	PM	AM	PM	AM	PM	Exceeds 66 dBA?	AM	PM	Exceeds 10 dBA?
P1	-89.9686304	30.4442441	40.0	40.0	40.4	40.6	45.3	45.1	FALSE	5.3	5.1	FALSE
P2	-89.9576102	30.44569565	48.9	48.8	48.9	49.0	49.9	49.8	FALSE	1	1	FALSE
P3	-89.9561003	30.44646055	42.6	42.6	42.8	43.0	45.5	45.2	FALSE	2.9	2.6	FALSE
P4	-89.9679627	30.4477463	56.8	56.7	56.7	56.9	56.9	56.8	FALSE	0.1	0.1	FALSE
P6	-89.9245605	30.47652964	32.3	32.4	33.5	33.6	37.7	37.3	FALSE	5.4	4.9	FALSE
P7	-89.9225916	30.47680179	32.3	32.3	33.5	33.5	37.4	37	FALSE	5.1	4.7	FALSE
P8	-89.9250389	30.47844541	32.2	32.2	33.4	33.4	37.8	37.4	FALSE	5.6	5.2	FALSE
P9	-89.925675	30.47851615	32.2	32.2	33.4	33.4	37.9	37.5	FALSE	5.7	5.3	FALSE
P10	-89.9233331	30.47879412	32.1	32.2	33.3	33.4	37.6	37.2	FALSE	5.5	5	FALSE
P11	-89.9234342	30.47962202	32.1	32.1	33.3	33.3	37.6	37.2	FALSE	5.5	5.1	FALSE
P13	-89.9357937	30.48105338	32.1	32.2	33.3	33.4	40.8	40.2	FALSE	8.7	8	FALSE
P14	-89.9246397	30.48180776	31.9	32.0	33.2	33.2	37.9	37.5	FALSE	6	5.5	FALSE
P15	-89.9342113	30.4817044	32.1	32.1	33.3	33.3	40.2	39.6	FALSE	8.1	7.5	FALSE
P16	-89.9328122	30.48201443	32.0	32.1	33.2	33.3	39.7	39.2	FALSE	7.7	7.1	FALSE
P17	-89.9320641	30.48216302	32.0	32.0	33.2	33.3	39.5	39	FALSE	7.5	7	FALSE
P18	-89.9226122	30.48250486	31.9	31.9	33.1	33.1	37.7	37.2	FALSE	5.8	5.3	FALSE
P20	-89.9289332	30.48270886	31.9	32.0	33.1	33.2	38.8	38.3	FALSE	6.9	6.3	FALSE
P21	-89.9348604	30.48286591	32.0	32.0	33.2	33.2	40.7	40.1	FALSE	8.7	8.1	FALSE
P22	-89.9263613	30.48309047	31.9	31.9	33.1	33.1	38.3	37.8	FALSE	6.4	5.9	FALSE
P23	-89.9278409	30.48317996	31.9	31.9	33.1	33.1	38.6	38.1	FALSE	6.7	6.2	FALSE
P25	-89.9342645	30.48332293	31.9	32.0	33.1	33.2	40.5	39.9	FALSE	8.6	7.9	FALSE
P27	-89.9295776	30.48474002	31.8	31.8	33.0	33.0	39.1	38.6	FALSE	7.3	6.8	FALSE
P28	-89.9327058	30.48490403	31.8	31.9	33.0	33.1	40.1	39.5	FALSE	8.3	7.6	FALSE
P29	-89.9245008	30.48558635	31.7	31.7	32.9	32.9	38.1	37.7	FALSE	6.4	6	FALSE
P30	-89.9233699	30.48608618	31.6	31.7	32.9	32.9	38	37.5	FALSE	6.4	5.8	FALSE
P31	-89.9221699	30.48638987	31.6	31.6	32.8	32.8	37.8	37.4	FALSE	6.2	5.8	FALSE
P32	-89.9320199	30.48632751	31.7	31.8	32.9	33.0	40.1	39.5	FALSE	8.4	7.7	FALSE
P33	-89.9288976	30.48715033	31.6	31.7	32.9	32.9	39.2	38.7	FALSE	7.6	7	FALSE
P34	-89.9340922	30.48717361	31.7	31.7	32.9	32.9	41.2	40.6	FALSE	9.5	8.9	FALSE
P35	-89.9233915	30.48750678	31.5	31.6	32.8	32.8	38.1	37.6	FALSE	6.6	6	FALSE
P36	-89.9333229	30.48769934	31.6	31.7	32.9	32.9	40.9	40.3	FALSE	9.3	8.6	FALSE
P37	-89.9308603	30.48780734	31.6	31.6	32.8	32.9	39.9	39.3	FALSE	8.3	7.7	FALSE
P38	-89.9326895	30.48777608	31.6	31.7	32.8	32.9	40.6	40	FALSE	9	8.3	FALSE
P40	-89.9315659	30.48901977	31.7	31.7	32.9	32.9	40.3	39.8	FALSE	8.6	8.1	FALSE
P42	-89.9229789	30.48964083	31.4	31.5	32.7	32.6	38.3	37.7	FALSE	6.9	6.2	FALSE
P44	-89.9326142	30.49000393	31.5	31.5	32.7	32.7	41	40.4	FALSE	9.5	8.9	FALSE
P45	-89.9313416	30.49035635	31.5	31.5	32.7	32.7	40.5	39.9	FALSE	9	8.4	FALSE
P46	-89.9278682	30.49061816	31.4	31.4	32.6	32.6	39.4	38.9	FALSE	8	7.5	FALSE
P47	-89.9227659	30.49099017	31.3	31.4	32.6	32.6	38.4	37.9	FALSE	7.1	6.5	FALSE
P51	-89.9249875	30.49318912	31.2	31.3	32.5	32.5	39.2	38.6	FALSE	8	7.3	FALSE
P52	-89.9315275	30.4931388	31.3	31.3	32.5	32.5	41.3	40.7	FALSE	10	9.4	FALSE
P53	-89.9301308	30.49321095	31.3	31.3	32.5	32.5	40.7	40.1	FALSE	9.4	8.8	FALSE
P56	-89.928872	30.4938034	31.2	31.3	32.5	32.5	40.4	39.8	FALSE	9.2	8.5	FALSE
P59	-89.9282634	30.49411589	31.2	31.2	32.5	32.4	40.2	39.7	FALSE	9	8.5	FALSE
P60	-89.9230361	30.49433128	31.2	31.2	32.4	32.4	39	38.4	FALSE	7.8	7.2	FALSE
P61	-89.9262646	30.49480525	31.2	31.2	32.4	32.4	39.9	39.3	FALSE	8.7	8.1	FALSE
P63	-89.9227889	30.49609075	31.1	31.1	32.3	32.3	39.3	38.7	FALSE	8.2	7.6	FALSE
P64	-89.9248515	30.49632754	31.1	31.1	32.3	32.3	39.9	39.3	FALSE	8.8	8.2	FALSE
P67	-89.9275428	30.49690078	31.1	31.1	32.3	32.3	41.1	40.4	FALSE	10	9.3	FALSE
P68	-89.9462654	30.49666868	31.2	31.2	32.4	32.5	40.5	39.9	FALSE	9.3	8.7	FALSE
P70	-89.9268187	30.4972578	31.0	31.0	32.3	32.3	41	40.3	FALSE	10	9.3	FALSE
P71	-89.946507	30.49688602	31.2	31.2	32.4	32.5	40.3	39.7	FALSE	9.1	8.5	FALSE
P72	-89.9240315	30.49767122	31.0	31.0	32.3	32.2	40.1	39.5	FALSE	9.1	8.5	FALSE
P73	-89.9496123	30.49714927	31.2	31.2	32.4	32.5	39	38.5	FALSE	7.8	7.3	FALSE
P75	-89.9254464	30.49797175	31.0	31.0	32.2	32.2	40.8	40.2	FALSE	9.8	9.2	FALSE
P76	-89.9505455	30.49804702	31.2	31.2	32.4	32.5	38.6	38.1	FALSE	7.4	6.9	FALSE
P78	-89.9498879	30.49904948	31.1	31.1	32.3	32.4	38.6	38.1	FALSE	7.5	7	FALSE

Table A-3 All Noise Sensitive Receptors in Alternative P (2035) (Continued)												
PR			Existing Leq [1hr]		No Action Leq[1hr]		Alternative P Leq[1hr]			Change from Existing Leq[1hr]		
Receptor	Latitude	Longitude	AM	PM	AM	PM	AM	PM	Exceeds 66 dBA?	AM	PM	Exceeds 10 dBA?
P79	-89.9497345	30.49938992	31.1	31.1	32.3	32.4	38.6	38.1	FALSE	7.5	7	FALSE
P82	-89.9561426	30.49963247	31.1	31.1	32.3	32.4	37.2	36.8	FALSE	6.1	5.7	FALSE
P85	-89.95768	30.5013146	31.0	31.0	32.2	32.3	36.8	36.4	FALSE	5.8	5.4	FALSE
P86	-89.9506466	30.50176258	31.0	30.9	32.2	32.2	38	37.5	FALSE	7	6.6	FALSE
P88	-89.9502852	30.50267983	30.9	30.9	32.1	32.2	37.9	37.4	FALSE	7	6.5	FALSE
P90	-89.9619168	30.50290054	31.0	31.0	32.2	32.3	36.2	35.7	FALSE	5.2	4.7	FALSE
P91	-89.9500991	30.50346463	30.9	30.8	32.1	32.1	37.8	37.3	FALSE	6.9	6.5	FALSE
P92	-89.9613026	30.50331689	30.9	30.9	32.1	32.2	36.2	35.8	FALSE	5.3	4.9	FALSE
P93	-89.960831	30.50361025	30.9	30.9	32.1	32.2	36.2	35.8	FALSE	5.3	4.9	FALSE
P94	-89.9492106	30.50390944	30.8	30.8	32.1	32.1	37.9	37.4	FALSE	7.1	6.6	FALSE
P95	-89.9500447	30.50405083	30.8	30.8	32.0	32.1	37.8	37.2	FALSE	7	6.4	FALSE
P97	-89.9603594	30.50401706	30.9	30.9	32.1	32.2	36.2	35.8	FALSE	5.3	4.9	FALSE
P98	-89.9570457	30.50422689	30.9	30.8	32.1	32.2	36.6	36.1	FALSE	5.7	5.3	FALSE
P101	-89.9492549	30.50459957	30.8	30.8	32.0	32.1	37.8	37.3	FALSE	7	6.5	FALSE
P102	-89.9609075	30.50448286	30.9	30.9	32.1	32.2	36.1	35.7	FALSE	5.2	4.8	FALSE
P103	-89.9610609	30.50458448	30.9	30.8	32.1	32.2	36.1	35.7	FALSE	5.2	4.9	FALSE
P104	-89.9563877	30.50469997	30.8	30.8	32.0	32.1	36.6	36.2	FALSE	5.8	5.4	FALSE
P105	-89.9501879	30.50494893	30.8	30.8	32.0	32.1	37.6	37.1	FALSE	6.8	6.3	FALSE
P106	-89.9606681	30.50470766	30.9	30.8	32.1	32.2	36.1	35.7	FALSE	5.2	4.9	FALSE
P107	-89.9607668	30.50479868	30.9	30.8	32.0	32.2	36.1	35.7	FALSE	5.2	4.9	FALSE
P108	-89.9604956	30.50489295	30.8	30.8	32.0	32.2	36.1	35.7	FALSE	5.3	4.9	FALSE
P109	-89.9604886	30.50494001	30.8	30.8	32.0	32.1	36.1	35.7	FALSE	5.3	4.9	FALSE
P110	-89.9592398	30.5050697	30.8	30.8	32.0	32.1	36.2	35.8	FALSE	5.4	5	FALSE
P111	-89.9495737	30.50535578	30.8	30.7	32.0	32.0	37.6	37.1	FALSE	6.8	6.4	FALSE
P112	-89.9602121	30.50511777	30.8	30.8	32.0	32.1	36.1	35.7	FALSE	5.3	4.9	FALSE
P113	-89.9609802	30.50509456	30.8	30.8	32.0	32.1	36.1	35.6	FALSE	5.3	4.8	FALSE
P114	-89.9602668	30.50521489	30.8	30.8	32.0	32.1	36.1	35.7	FALSE	5.3	4.9	FALSE
P115	-89.9608323	30.50520242	30.8	30.8	32.0	32.1	36.1	35.6	FALSE	5.3	4.8	FALSE
P116	-89.9504626	30.50553498	30.8	30.7	32.0	32.0	37.4	36.9	FALSE	6.6	6.2	FALSE
P117	-89.9500569	30.50601737	30.7	30.7	32.0	32.0	37.4	36.9	FALSE	6.7	6.2	FALSE
P118	-89.9504632	30.50633863	30.7	30.7	31.9	32.0	37.3	36.8	FALSE	6.6	6.1	FALSE
P119	-89.9517253	30.50653656	30.7	30.7	31.9	32.0	37.1	36.6	FALSE	6.4	5.9	FALSE
P124	-89.9366373	30.50793637	30.6	30.5	31.8	31.8	40.3	39.7	FALSE	9.7	9.2	FALSE
P127	-89.9369737	30.50864232	30.5	30.5	31.8	31.8	39.9	39.3	FALSE	9.4	8.8	FALSE
P129	-89.9364634	30.51035881	30.5	30.4	31.7	31.7	39.5	38.9	FALSE	9	8.5	FALSE
P131	-89.9335861	30.51157644	30.4	30.4	31.7	31.6	40	39.3	FALSE	9.6	8.9	FALSE
P132	-89.9381254	30.51312994	30.4	30.3	31.6	31.6	38.3	37.8	FALSE	7.9	7.5	FALSE
P133	-89.9361184	30.5132347	30.3	30.3	31.6	31.6	38.8	38.2	FALSE	8.5	7.9	FALSE
P134	-89.9376549	30.51483544	30.3	30.2	31.6	31.5	38.1	37.5	FALSE	7.8	7.3	FALSE
P135	-89.9359255	30.5150675	30.3	30.2	31.6	31.5	38.4	37.8	FALSE	8.1	7.6	FALSE
P137	-89.930729	30.5172536	30.2	30.1	31.5	31.4	39.1	38.6	FALSE	8.9	8.5	FALSE
P138	-89.9375089	30.5174172	30.2	30.1	31.5	31.4	37.6	37.1	FALSE	7.4	7	FALSE
P141	-89.9039657	30.51939528	30.3	30.2	31.7	31.3	39.5	38.9	FALSE	9.2	8.7	FALSE
P142	-89.9326355	30.51889402	30.1	30.1	31.5	31.3	38.3	37.7	FALSE	8.2	7.6	FALSE
P143	-89.9022989	30.51972063	30.3	30.3	31.7	31.3	39.1	38.5	FALSE	8.8	8.2	FALSE
P144	-89.9001223	30.51999336	30.3	30.3	31.8	31.3	38.5	37.9	FALSE	8.2	7.6	FALSE
P145	-89.9281313	30.5195033	30.1	30.1	31.5	31.3	39.3	38.7	FALSE	9.2	8.6	FALSE
P146	-89.9010043	30.52036204	30.3	30.3	31.8	31.3	38.9	38.2	FALSE	8.6	7.9	FALSE
P151	-89.9277966	30.52090246	30.1	30.0	31.4	31.2	39.1	38.5	FALSE	9	8.5	FALSE
P152	-89.9035891	30.52159541	30.3	30.2	31.7	31.2	40.1	39.5	FALSE	9.8	9.3	FALSE
P154	-89.9266533	30.52144481	30.1	30.0	31.4	31.2	39.3	38.7	FALSE	9.2	8.7	FALSE
P155	-89.9243256	30.52157738	30.1	30.0	31.4	31.2	40.1	39.4	FALSE	10	9.4	FALSE
P157	-89.8990576	30.52258005	30.3	30.3	31.8	31.3	38.8	38.2	FALSE	8.5	7.9	FALSE
P158	-89.9015173	30.5230768	30.3	30.2	31.7	31.2	39.8	39.1	FALSE	9.5	8.9	FALSE
P164	-89.8982808	30.52482859	30.4	30.3	31.9	31.2	39.1	38.5	FALSE	8.7	8.2	FALSE
P167	-89.9009746	30.52505255	30.3	30.2	31.8	31.2	40.2	39.6	FALSE	9.9	9.4	FALSE

Table A-3 All Noise Sensitive Receptors in Alternative P (2035) (Continued)												
PR			Existing Leq [1hr]		No Action Leq[1hr]		Alternative P Leq[1hr]			Change from Existing Leq[1hr]		
Receptor	Latitude	Longitude	AM	PM	AM	PM	AM	PM	Exceeds 66 dBA?	AM	PM	Exceeds 10 dBA?
S3	-89.9021023	30.55846531	30.3	30.0	31.9	31.0	39	39	FALSE	8.7	9	FALSE
S4	-89.9023145	30.55848493	30.2	30.0	31.9	31.0	38.9	38.9	FALSE	8.7	8.9	FALSE
S5	-89.9019238	30.55852784	30.3	30.0	31.9	31.0	39.1	39	FALSE	8.8	9	FALSE
S6	-89.9026225	30.55885471	30.2	30.0	31.8	31.0	38.8	38.8	FALSE	8.6	8.8	FALSE
S7	-89.8859921	30.56300532	31.8	31.7	33.6	32.1	40.1	40.1	FALSE	8.3	8.4	FALSE
S15	-89.8812637	30.57020256	32.9	32.7	34.7	32.9	37.7	37.3	FALSE	4.8	4.6	FALSE
S17	-89.8833133	30.57035599	32.3	32.1	34.1	32.5	38	37.8	FALSE	5.7	5.7	FALSE
S19	-89.8832695	30.57077666	32.3	32.1	34.1	32.5	38	37.7	FALSE	5.7	5.6	FALSE
S22	-89.8829029	30.57132392	32.4	32.2	34.2	32.6	37.9	37.6	FALSE	5.5	5.4	FALSE
S23	-89.8898925	30.57128004	31.2	31.0	33.0	31.6	40.6	40.8	FALSE	9.4	9.8	FALSE
S25	-89.8892784	30.57305169	31.3	31.1	33.0	31.7	39.8	39.8	FALSE	8.5	8.7	FALSE
S27	-89.8886873	30.57416149	31.4	31.1	33.1	31.8	39.2	39.2	FALSE	7.8	8.1	FALSE
S29	-89.8867656	30.57467442	31.6	31.4	33.4	32.0	38.4	38.3	FALSE	6.8	6.9	FALSE
S30	-89.8905733	30.57471284	31.2	30.9	32.9	31.6	40.1	40.2	FALSE	8.9	9.3	FALSE
S32	-89.8891422	30.57632326	31.3	31.1	33.1	31.7	39	39	FALSE	7.7	7.9	FALSE
S33	-89.8867048	30.57641668	31.7	31.4	33.5	32.0	38.2	38.1	FALSE	6.5	6.7	FALSE
S34	-89.8906527	30.57682563	31.2	30.9	32.9	31.6	39.6	39.7	FALSE	8.4	8.8	FALSE
S35	-89.8896809	30.57695668	31.3	31.0	33.0	31.7	39.1	39.2	FALSE	7.8	8.2	FALSE
S36	-89.8879195	30.57749424	31.5	31.3	33.3	31.9	38.4	38.3	FALSE	6.9	7	FALSE
S37	-89.8913077	30.57744845	31.1	30.9	32.9	31.6	39.9	40	FALSE	8.8	9.1	FALSE
S38	-89.8888078	30.57763478	31.4	31.1	33.2	31.8	38.7	38.7	FALSE	7.3	7.6	FALSE
S39	-89.888849	30.57786362	31.4	31.1	33.2	31.8	38.6	38.6	FALSE	7.2	7.5	FALSE
S41	-89.8888606	30.57834265	31.4	31.1	33.2	31.8	38.6	38.6	FALSE	7.2	7.5	FALSE
S43	-89.8927047	30.57883711	31.0	30.7	32.8	31.6	40.4	40.6	FALSE	9.4	9.9	FALSE
S50	-89.8936507	30.58193427	31.1	30.7	32.8	31.6	40.2	40.4	FALSE	9.1	9.7	FALSE
S51	-89.8886479	30.58205493	31.5	31.2	33.3	31.9	38	38	FALSE	6.5	6.8	FALSE
S53	-89.8911566	30.58217609	31.3	31.0	33.0	31.8	38.9	38.9	FALSE	7.6	7.9	FALSE
S66	-89.889017	30.59316808	32.1	31.7	33.9	32.5	37.5	37.3	FALSE	5.4	5.6	FALSE
S67	-89.8900866	30.5932256	32.0	31.7	33.8	32.5	37.8	37.7	FALSE	5.8	6	FALSE
S68	-89.8951486	30.59329111	31.8	31.4	33.5	32.4	40	40.2	FALSE	8.2	8.8	FALSE
S72	-89.9113746	30.59508717	32.2	31.4	33.8	33.1	38.3	38.4	FALSE	6.1	7	FALSE
S75	-89.9082105	30.59590571	32.2	31.5	33.9	33.1	40.1	40.3	FALSE	7.9	8.8	FALSE
S76	-89.8963081	30.59683978	32.3	31.8	34.1	32.9	41.4	41.6	FALSE	9.1	9.8	FALSE
S77	-89.8955591	30.59725264	32.4	31.9	34.2	33.0	40.7	40.9	FALSE	8.3	9	FALSE
S78	-89.8894876	30.59782269	32.7	32.3	34.5	33.1	37.7	37.4	FALSE	5	5.1	FALSE
S79	-89.8937833	30.59829098	32.6	32.2	34.4	33.1	39.5	39.5	FALSE	6.9	7.3	FALSE
S80	-89.8961086	30.59827398	32.6	32.1	34.4	33.2	41.4	41.6	FALSE	8.8	9.5	FALSE
S81	-89.8929671	30.59845542	32.7	32.3	34.5	33.2	39	39	FALSE	6.3	6.7	FALSE
S85	-89.8950734	30.60098494	33.3	32.9	35.1	33.8	40.7	40.8	FALSE	7.4	7.9	FALSE
S86	-89.8942988	30.60141001	33.5	33.1	35.3	33.9	40.1	40.1	FALSE	6.6	7	FALSE
S87	-89.9067416	30.60132896	33.2	32.5	34.9	34.1	40.5	40.7	FALSE	7.3	8.2	FALSE
S89	-89.8888457	30.60192594	33.9	33.6	35.8	34.1	37.7	37.3	FALSE	3.8	3.7	FALSE
S92	-89.887284	30.60243481	34.2	33.9	36.1	34.3	37.5	36.8	FALSE	3.3	2.9	FALSE
S93	-89.8907229	30.60263275	34.1	33.8	36.0	34.4	38.4	38	FALSE	4.3	4.2	FALSE
S94	-89.8900302	30.60266601	34.2	33.9	36.1	34.4	38.1	37.7	FALSE	3.9	3.8	FALSE
P5	-89.9572145	30.45081839	37.3	37.3	38.0	38.1	48.3	47.7	FALSE	11	10.4	TRUE
P12	-89.9385757	30.48079833	32.2	32.2	33.4	33.5	42.5	41.9	FALSE	10.3	9.7	TRUE
P19	-89.9378777	30.48228964	32.1	32.1	33.3	33.3	42.5	41.9	FALSE	10.4	9.8	TRUE
P24	-89.9376401	30.48300592	32.0	32.0	33.2	33.3	42.6	42	FALSE	10.6	10	TRUE
P26	-89.9381317	30.48405722	31.9	32.0	33.1	33.2	43.6	43	FALSE	11.7	11	TRUE
P39	-89.9344539	30.48849973	31.6	31.6	32.8	32.9	41.8	41.1	FALSE	10.2	9.5	TRUE
P41	-89.9360295	30.48926808	31.6	31.6	32.8	32.8	43.5	42.8	FALSE	11.9	11.2	TRUE
P43	-89.9373142	30.48949205	31.6	31.6	32.8	32.8	45.9	45.2	FALSE	14.3	13.6	TRUE
P48	-89.9339228	30.49085041	31.4	31.5	32.7	32.7	42	41.4	FALSE	10.6	9.9	TRUE
P49	-89.9330471	30.49164638	31.4	31.4	32.6	32.6	41.7	41.1	FALSE	10.3	9.7	TRUE
P50	-89.937962	30.4919043	31.4	31.4	32.6	32.7	51.1	50.4	FALSE	19.7	19	TRUE
P54	-89.935801	30.49322338	31.3	31.3	32.5	32.6	45.6	44.9	FALSE	14.3	13.6	TRUE

Table A-3 All Noise Sensitive Receptors in Alternative P (2035) (Continued)												
PR			Existing Leq [1hr]		No Action Leq[1hr]		Alternative P Leq[1hr]			Change from Existing Leq[1hr]		
Receptor	Latitude	Longitude	AM	PM	AM	PM	AM	PM	Exceeds 66 dBA?	AM	PM	Exceeds 10 dBA?
P55	-89.9329078	30.49342488	31.3	31.3	32.5	32.5	42.2	41.5	FALSE	10.9	10.2	TRUE
P57	-89.945199	30.49343572	31.4	31.4	32.6	32.7	42.2	41.5	FALSE	10.8	10.1	TRUE
P58	-89.9380959	30.49362371	31.3	31.3	32.5	32.6	56	55.2	FALSE	24.7	23.9	TRUE
P62	-89.9292389	30.49571122	31.1	31.1	32.4	32.4	41.2	40.6	FALSE	10.1	9.5	TRUE
P65	-89.9360188	30.49636123	31.1	31.2	32.4	32.4	49.8	49.1	FALSE	18.7	17.9	TRUE
P66	-89.9291913	30.49673357	31.1	31.1	32.3	32.3	41.7	41.1	FALSE	10.6	10	TRUE
P69	-89.9436431	30.49680226	31.2	31.2	32.4	32.5	42.4	41.8	FALSE	11.2	10.6	TRUE
P74	-89.9278746	30.49789331	31.0	31.0	32.3	32.2	41.8	41.2	FALSE	10.8	10.2	TRUE
P77	-89.9324356	30.49915146	31.0	31.0	32.2	32.2	48	47.3	FALSE	17	16.3	TRUE
P80	-89.9362701	30.49992893	31.0	31.0	32.2	32.2	65.4	64.7	FALSE	34.4	33.7	TRUE
P81	-89.9278417	30.5002174	30.9	30.9	32.1	32.1	44.2	43.6	FALSE	13.3	12.7	TRUE
P83	-89.9322752	30.50028103	30.9	30.9	32.2	32.1	52.6	51.8	FALSE	21.7	20.9	TRUE
P84	-89.9319322	30.50081011	30.9	30.9	32.1	32.1	54.7	53.9	FALSE	23.8	23	TRUE
P87	-89.9341912	30.50265107	30.8	30.8	32.1	32.0	50.9	50.2	FALSE	20.1	19.4	TRUE
P89	-89.9379185	30.50341048	30.8	30.8	32.0	32.0	43.1	42.4	FALSE	12.3	11.6	TRUE
P96	-89.9344371	30.50454688	30.7	30.7	32.0	31.9	44.6	43.9	FALSE	13.9	13.2	TRUE
P99	-89.9358731	30.50480159	30.7	30.7	32.0	31.9	43.2	42.5	FALSE	12.5	11.8	TRUE
P100	-89.93309	30.50489722	30.7	30.7	32.0	31.9	45.5	44.8	FALSE	14.8	14.1	TRUE
P120	-89.930527	30.50724721	30.6	30.6	31.9	31.8	44.5	43.8	FALSE	13.9	13.2	TRUE
P121	-89.9357449	30.50730269	30.6	30.6	31.9	31.8	41.1	40.4	FALSE	10.5	9.8	TRUE
P122	-89.9301005	30.50751189	30.6	30.5	31.8	31.8	44.7	44.1	FALSE	14.1	13.6	TRUE
P123	-89.9303349	30.50787035	30.5	30.5	31.8	31.8	44	43.3	FALSE	13.5	12.8	TRUE
P125	-89.9318689	30.50845278	30.5	30.5	31.8	31.7	42.2	41.6	FALSE	11.7	11.1	TRUE
P126	-89.9307673	30.50877555	30.5	30.5	31.8	31.7	42.8	42.1	FALSE	12.3	11.6	TRUE
P128	-89.9329827	30.50902899	30.5	30.5	31.8	31.7	41.3	40.7	FALSE	10.8	10.2	TRUE
P130	-89.9323947	30.51137299	30.4	30.4	31.7	31.6	40.5	39.8	FALSE	10.1	9.4	TRUE
P136	-89.9262772	30.51689202	30.2	30.2	31.5	31.4	41.1	40.4	FALSE	10.9	10.2	TRUE
P139	-89.9250929	30.51799051	30.2	30.1	31.5	31.3	41.2	40.6	FALSE	11	10.5	TRUE
P140	-89.9259395	30.51855176	30.1	30.1	31.5	31.3	40.5	39.9	FALSE	10.4	9.8	TRUE
P147	-89.9184955	30.52003997	30.1	30.1	31.5	31.2	47.2	46.5	FALSE	17.1	16.4	TRUE
P148	-89.9191498	30.52057409	30.1	30.1	31.5	31.2	44.9	44.2	FALSE	14.8	14.1	TRUE
P149	-89.9043485	30.52122196	30.2	30.2	31.7	31.2	40.3	39.7	FALSE	10.1	9.5	TRUE
P150	-89.9209996	30.52098145	30.1	30.0	31.5	31.2	42.3	41.7	FALSE	12.2	11.7	TRUE
P153	-89.9191276	30.52127358	30.1	30.0	31.5	31.2	44	43.4	FALSE	13.9	13.4	TRUE
P156	-89.9190997	30.52191965	30.1	30.0	31.4	31.2	43.4	42.7	FALSE	13.3	12.7	TRUE
P159	-89.9212882	30.52299237	30.0	30.0	31.4	31.2	41	40.3	FALSE	11	10.3	TRUE
P160	-89.922377	30.52335399	30.0	30.0	31.4	31.1	40.3	39.6	FALSE	10.3	9.6	TRUE
P161	-89.9178038	30.52406714	30.0	30.0	31.4	31.1	42.9	42.2	FALSE	12.9	12.2	TRUE
P162	-89.9187963	30.52404249	30.0	30.0	31.4	31.1	42	41.4	FALSE	12	11.4	TRUE
P163	-89.9204654	30.52409534	30.0	29.9	31.4	31.1	40.9	40.3	FALSE	10.9	10.4	TRUE
P165	-89.9020335	30.52491363	30.3	30.2	31.7	31.2	40.7	40.1	FALSE	10.4	9.9	TRUE
P166	-89.92167	30.52457038	30.0	29.9	31.4	31.1	40.1	39.5	FALSE	10.1	9.6	TRUE
P168	-89.9044328	30.52499591	30.2	30.1	31.7	31.1	42.3	41.7	FALSE	12.1	11.6	TRUE
P169	-89.9032116	30.52517015	30.2	30.2	31.7	31.2	41.5	40.9	FALSE	11.3	10.7	TRUE
P170	-89.9188193	30.52505285	30.0	29.9	31.4	31.1	41.4	40.8	FALSE	11.4	10.9	TRUE
P171	-89.9198399	30.52557605	30.0	29.9	31.4	31.1	40.6	39.9	FALSE	10.6	10	TRUE
P172	-89.9204062	30.52594455	30.0	29.9	31.4	31.1	40.2	39.5	FALSE	10.2	9.6	TRUE
P173	-89.9199092	30.52604879	30.0	29.9	31.4	31.1	40.3	39.7	FALSE	10.3	9.8	TRUE
P174	-89.9005	30.53535297	30.3	30.2	31.9	31.1	53.6	52.8	FALSE	23.3	22.6	TRUE
S1	-89.887544	30.55042059	31.9	31.8	33.6	32.2	46.7	46.5	FALSE	14.8	14.7	TRUE
S2	-89.8876294	30.55149394	31.8	31.7	33.6	32.1	45.1	45.2	FALSE	13.3	13.5	TRUE
S8	-89.8928586	30.56380101	30.9	30.7	32.6	31.4	61.7	62	FALSE	30.8	31.3	TRUE
S9	-89.8910124	30.56707993	31.1	30.9	32.8	31.5	44.1	44.3	FALSE	13	13.4	TRUE
S10	-89.8914761	30.56761787	31.0	30.8	32.7	31.5	44.6	44.9	FALSE	13.6	14.1	TRUE
S11	-89.8899593	30.56805696	31.2	31.0	32.9	31.6	41.9	42	FALSE	10.7	11	TRUE
S12	-89.8922076	30.5683372	30.9	30.7	32.7	31.4	45.7	46	FALSE	14.8	15.3	TRUE
S13	-89.8937215	30.56965617	30.8	30.6	32.5	31.4	49.2	49.5	FALSE	18.4	18.9	TRUE

Table A-3 All Noise Sensitive Receptors in Alternative P (2035) (Continued)												
PR			Existing Leq [1hr]		No Action Leq[1hr]		Alternative P Leq[1hr]			Change from Existing Leq[1hr]		
Receptor	Latitude	Longitude	AM	PM	AM	PM	AM	PM	Exceeds 66 dBA?	AM	PM	Exceeds 10 dBA?
S14	-89.8911738	30.56994214	31.1	30.8	32.8	31.5	42.4	42.6	FALSE	11.3	11.8	TRUE
S16	-89.8937005	30.57002703	30.8	30.6	32.5	31.4	48.4	48.7	FALSE	17.6	18.1	TRUE
S18	-89.8910299	30.57059046	31.1	30.8	32.8	31.5	41.9	42.1	FALSE	10.8	11.3	TRUE
S20	-89.8909169	30.57101183	31.1	30.9	32.8	31.6	41.6	41.8	FALSE	10.5	10.9	TRUE
S21	-89.8902271	30.57105023	31.2	30.9	32.9	31.6	41	41.1	FALSE	9.8	10.2	TRUE
S24	-89.8926604	30.57143253	30.9	30.7	32.6	31.4	43.8	44.1	FALSE	12.9	13.4	TRUE
S26	-89.892749	30.57301997	30.9	30.7	32.7	31.5	42.9	43.1	FALSE	12	12.4	TRUE
S28	-89.8922435	30.57410721	31.0	30.7	32.7	31.5	41.7	41.9	FALSE	10.7	11.2	TRUE
S31	-89.8919708	30.57577986	31.0	30.8	32.8	31.5	40.8	41	FALSE	9.8	10.2	TRUE
S40	-89.8931701	30.57810527	31.0	30.7	32.7	31.5	41	41.2	FALSE	10	10.5	TRUE
S42	-89.9005134	30.57848725	30.7	30.3	32.3	31.4	54.5	54.8	FALSE	23.8	24.5	TRUE
S44	-89.8972848	30.57889336	30.8	30.4	32.5	31.4	48.4	48.7	FALSE	17.6	18.3	TRUE
S45	-89.8944085	30.57922365	30.9	30.6	32.7	31.5	41.8	42	FALSE	10.9	11.4	TRUE
S46	-89.8975785	30.57975815	30.8	30.4	32.5	31.5	48.2	48.5	FALSE	17.4	18.1	TRUE
S47	-89.8977541	30.58011096	30.8	30.4	32.5	31.5	48.3	48.6	FALSE	17.5	18.2	TRUE
S48	-89.8958469	30.58031728	30.9	30.6	32.6	31.5	43.1	43.4	FALSE	12.2	12.8	TRUE
S49	-89.8985949	30.58036975	30.8	30.4	32.5	31.5	52	52.4	FALSE	21.2	22	TRUE
S52	-89.8977595	30.58186987	30.9	30.5	32.6	31.5	45.9	46.2	FALSE	15	15.7	TRUE
S54	-89.8972958	30.58235208	30.9	30.5	32.6	31.6	44.3	44.6	FALSE	13.4	14.1	TRUE
S55	-89.8967759	30.58303614	31.0	30.6	32.7	31.6	42.8	43.1	FALSE	11.8	12.5	TRUE
S56	-89.8975807	30.5830866	30.9	30.6	32.6	31.6	44.3	44.6	FALSE	13.4	14	TRUE
S57	-89.8959226	30.58326336	31.0	30.6	32.7	31.6	41.7	41.9	FALSE	10.7	11.3	TRUE
S58	-89.8976076	30.58427186	31.0	30.6	32.7	31.7	43.4	43.7	FALSE	12.4	13.1	TRUE
S59	-89.8998095	30.58565495	31.0	30.6	32.7	31.8	47.6	47.9	FALSE	16.6	17.3	TRUE
S60	-89.9049138	30.58637024	31.0	30.5	32.7	31.9	47.4	47.7	FALSE	16.4	17.2	TRUE
S61	-89.8996425	30.5869573	31.1	30.7	32.8	31.8	45.8	46.1	FALSE	14.7	15.4	TRUE
S62	-89.9014697	30.58787411	31.2	30.7	32.9	31.9	52.8	53.2	FALSE	21.6	22.5	TRUE
S63	-89.9017593	30.59073079	31.4	30.9	33.1	32.2	59.5	59.8	FALSE	28.1	28.9	TRUE
S64	-89.8972588	30.59181767	31.6	31.1	33.3	32.3	41.8	42	FALSE	10.2	10.9	TRUE
S65	-89.8988497	30.59249476	31.6	31.1	33.4	32.3	44.6	44.9	FALSE	13	13.8	TRUE
S69	-89.8982811	30.59356328	31.8	31.3	33.5	32.5	43.7	44	FALSE	11.9	12.7	TRUE
S70	-89.8982726	30.59433113	31.9	31.4	33.6	32.6	43.9	44.2	FALSE	12	12.8	TRUE
S71	-89.8995995	30.59451997	31.9	31.4	33.6	32.6	47.8	48.2	FALSE	15.9	16.8	TRUE
S73	-89.8968489	30.59572471	32.1	31.6	33.8	32.7	41.9	42.1	FALSE	9.8	10.5	TRUE
S74	-89.9052446	30.5958139	32.1	31.5	33.8	33.0	43.8	44.1	FALSE	11.7	12.6	TRUE
S82	-89.8972277	30.59882645	32.7	32.2	34.4	33.3	43.1	43.3	FALSE	10.4	11.1	TRUE
S83	-89.8968587	30.5988415	32.7	32.2	34.5	33.3	42.5	42.7	FALSE	9.8	10.5	TRUE
S84	-89.8969107	30.6000809	33.0	32.5	34.8	33.6	42.9	43.1	FALSE	9.9	10.6	TRUE
S88	-89.898069	30.60166243	33.5	32.9	35.3	34.0	46.2	46.5	FALSE	12.7	13.6	TRUE
S90	-89.89689	30.60176171	33.5	33.1	35.4	34.1	43.3	43.5	FALSE	9.8	10.4	TRUE
S91	-89.8973938	30.60182429	33.6	33.0	35.4	34.1	44.4	44.7	FALSE	10.8	11.7	TRUE

Table A-4 All Noise Sensitive Receptors in Alternative Q (2035)												
QR			Existing Leq[1hr]		No Action Leq[1hr]		Alternative Q Leq[1hr]			Change from Existing Leq[1hr]		
Receptor	Latitude	Longitude	AM	PM	AM	PM	AM	PM	Exceeds 66 dBA?	AM	PM	Exceeds 10 dBA?
Q1	-89.8805	30.38033	38.2	38.5	39.4	39.4	41	41	FALSE	2.8	2.5	FALSE
Q2	-89.8816	30.38109	38.2	38.5	39.5	39.5	41.3	41.3	FALSE	3.1	2.8	FALSE
Q3	-89.8807	30.38246	38.1	38.4	39.3	39.3	41.4	41.3	FALSE	3.3	2.9	FALSE
Q4	-89.8826	30.38343	38.2	38.5	39.4	39.4	42.3	42.3	FALSE	4.1	3.8	FALSE
Q5	-89.8804	30.38429	38	38.2	39.2	39.2	41.6	41.6	FALSE	3.6	3.4	FALSE
Q6	-89.8828	30.38493	38.2	38.5	39.4	39.4	43.3	43.2	FALSE	5.1	4.7	FALSE
Q7	-89.8835	30.38501	38.2	38.5	39.5	39.5	44.1	44.1	FALSE	5.9	5.6	FALSE
Q8	-89.8825	30.38507	38.1	38.4	39.3	39.4	43.1	43.1	FALSE	5	4.7	FALSE
Q9	-89.8805	30.38522	37.9	38.2	39.1	39.1	41.9	41.9	FALSE	4	3.7	FALSE
Q10	-89.8837	30.3856	38.2	38.6	39.5	39.5	45.3	45.3	FALSE	7.1	6.7	FALSE
Q11	-89.8828	30.38614	38.1	38.4	39.3	39.3	44.6	44.6	FALSE	6.5	6.2	FALSE
Q13	-89.8828	30.38707	38.1	38.4	39.3	39.3	46	46	FALSE	7.9	7.6	FALSE
Q14	-89.8725	30.42496	53.8	53.7	53.7	53.9	51.2	51.2	FALSE	-2.6	-2.5	FALSE
Q15	-89.8733	30.42497	56.6	56.6	56.6	56.7	53.9	53.9	FALSE	-2.7	-2.7	FALSE
Q16	-89.8726	30.42527	49.8	49.8	49.8	50	47.6	47.6	FALSE	-2.2	-2.2	FALSE
Q17	-89.875	30.42541	55.1	55.1	55.1	55.3	52.5	52.5	FALSE	-2.6	-2.6	FALSE
Q18	-89.8732	30.42553	48.6	48.5	48.6	48.7	46.6	46.5	FALSE	-2	-2	FALSE
S3	-89.9021	30.55847	30.3	30	31.9	31	37	36.6	FALSE	6.7	6.6	FALSE
S4	-89.9023	30.55848	30.2	30	31.9	31	36.9	36.6	FALSE	6.7	6.6	FALSE
S5	-89.9019	30.55853	30.3	30	31.9	31	37	36.7	FALSE	6.7	6.7	FALSE
S6	-89.9026	30.55885	30.2	30	31.8	31	36.8	36.5	FALSE	6.6	6.5	FALSE
S7	-89.886	30.56301	31.8	31.7	33.6	32.1	38.9	38.4	FALSE	7.1	6.7	FALSE
S11	-89.89	30.56806	31.2	31	32.9	31.6	40.1	39.8	FALSE	8.9	8.8	FALSE
S14	-89.8912	30.56994	31.1	30.8	32.8	31.5	40.6	40.3	FALSE	9.5	9.5	FALSE
S15	-89.8813	30.5702	32.9	32.7	34.7	32.9	37.2	36	FALSE	4.3	3.3	FALSE
S17	-89.8833	30.57036	32.3	32.1	34.1	32.5	37.2	36.3	FALSE	4.9	4.2	FALSE
S18	-89.891	30.57059	31.1	30.8	32.8	31.5	40.1	39.9	FALSE	9	9.1	FALSE
S19	-89.8833	30.57078	32.3	32.1	34.1	32.5	37.2	36.2	FALSE	4.9	4.1	FALSE
S20	-89.8909	30.57101	31.1	30.9	32.8	31.6	39.9	39.6	FALSE	8.8	8.7	FALSE
S21	-89.8902	30.57105	31.2	30.9	32.9	31.6	39.3	39	FALSE	8.1	8.1	FALSE

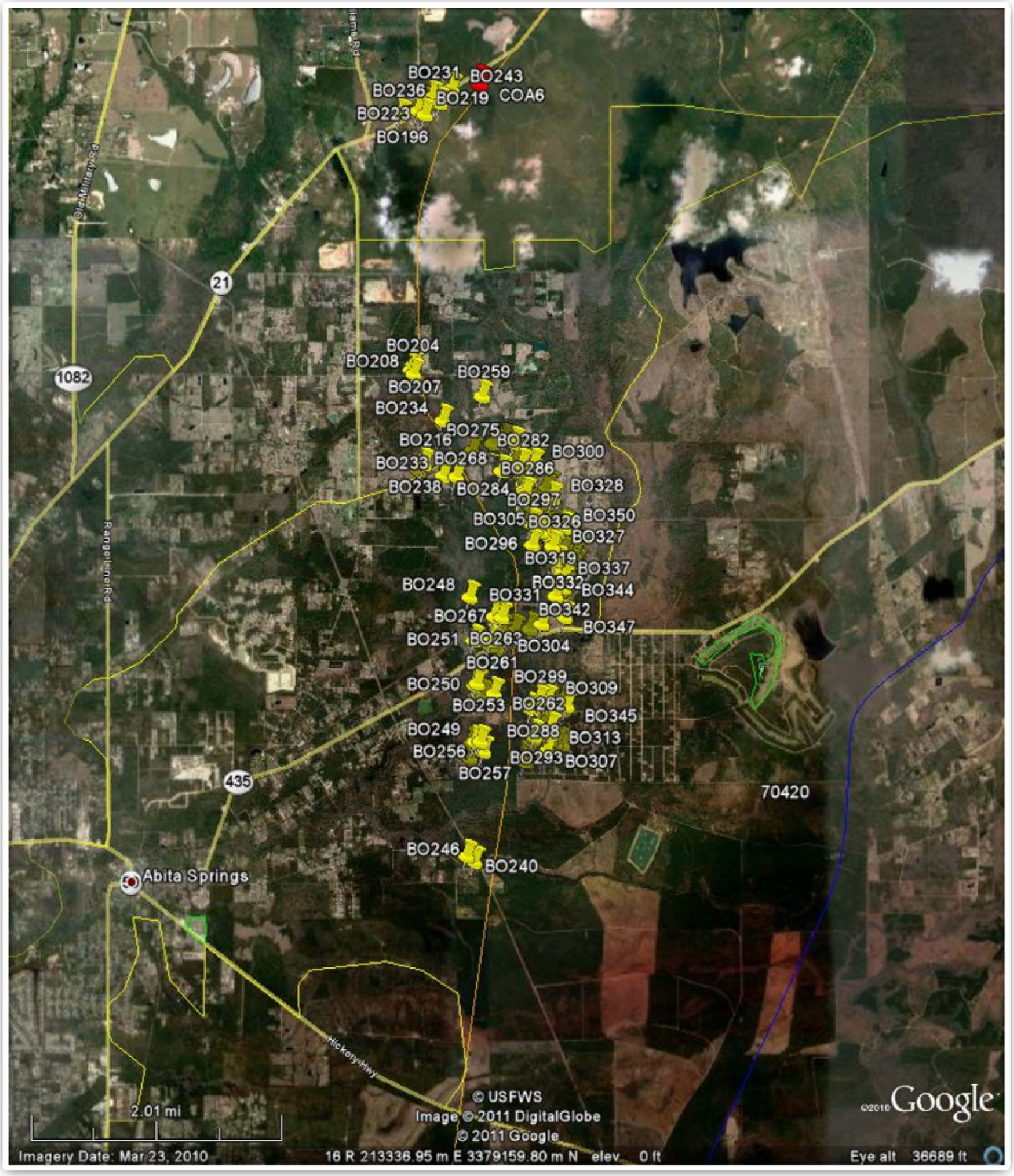

Figure A-1 Receptors with a Greater than 10 dBA Increase – Alternative BO (Aerial)

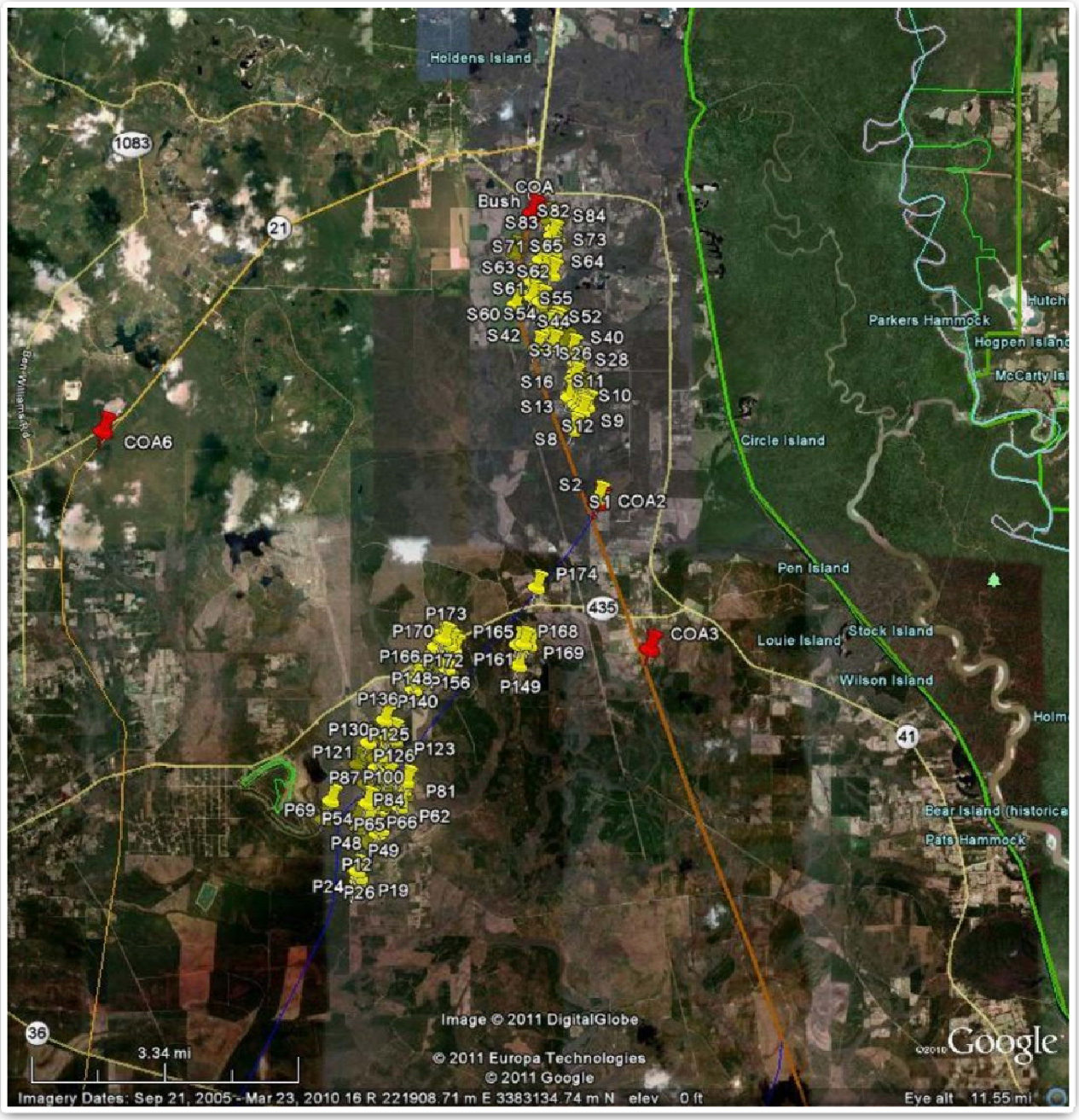

Figure A-2 Receptors with a Greater than 10 dBA Increase – Alternative P (Aerial)

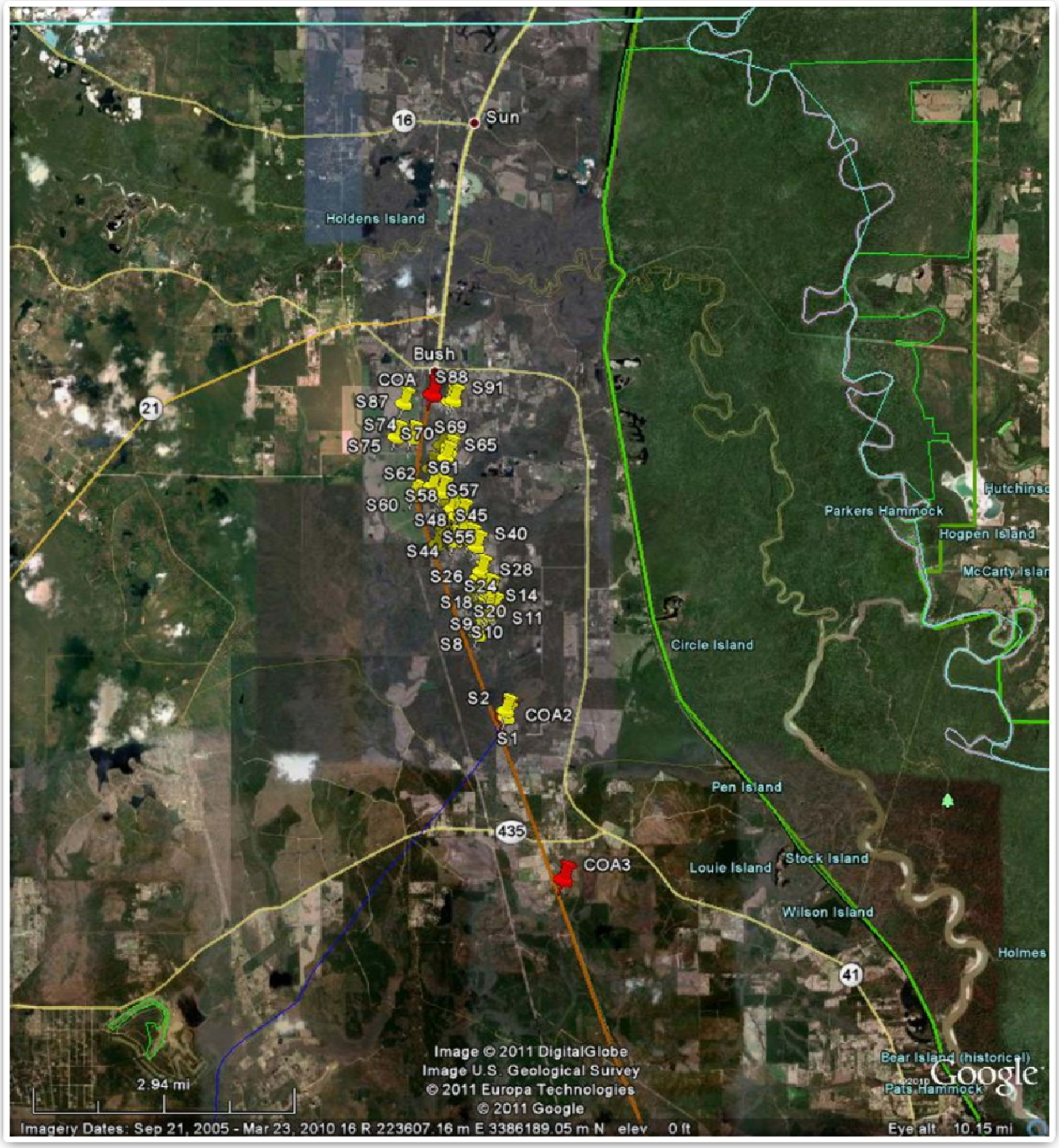

Figure A-3 Receptors with a Greater than 10 dBA Increase – Alternative J (Aerial)

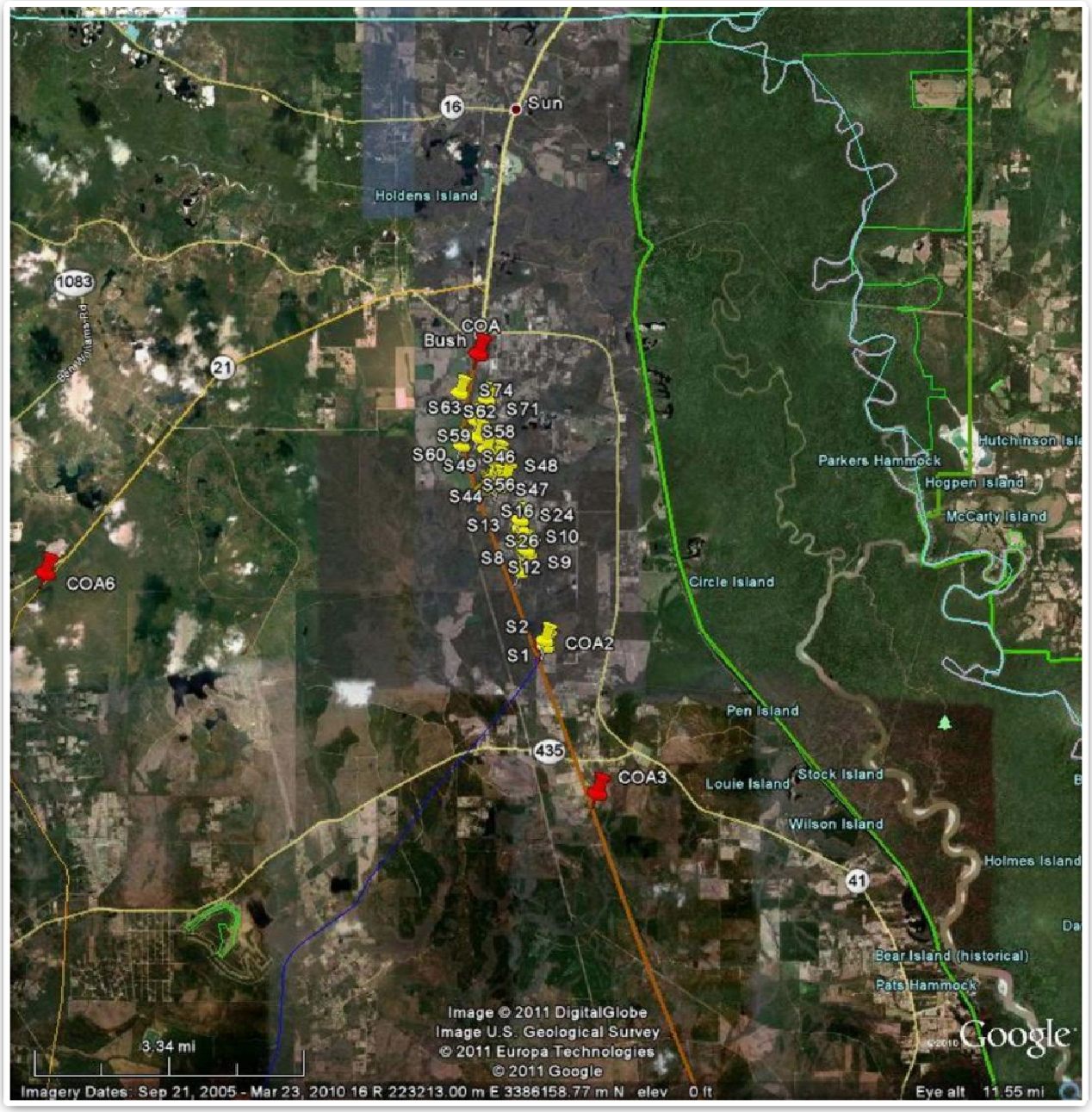

Figure A-4 Receptors with a Greater than 10 dBA Increase – Alternative Q(Aerial)

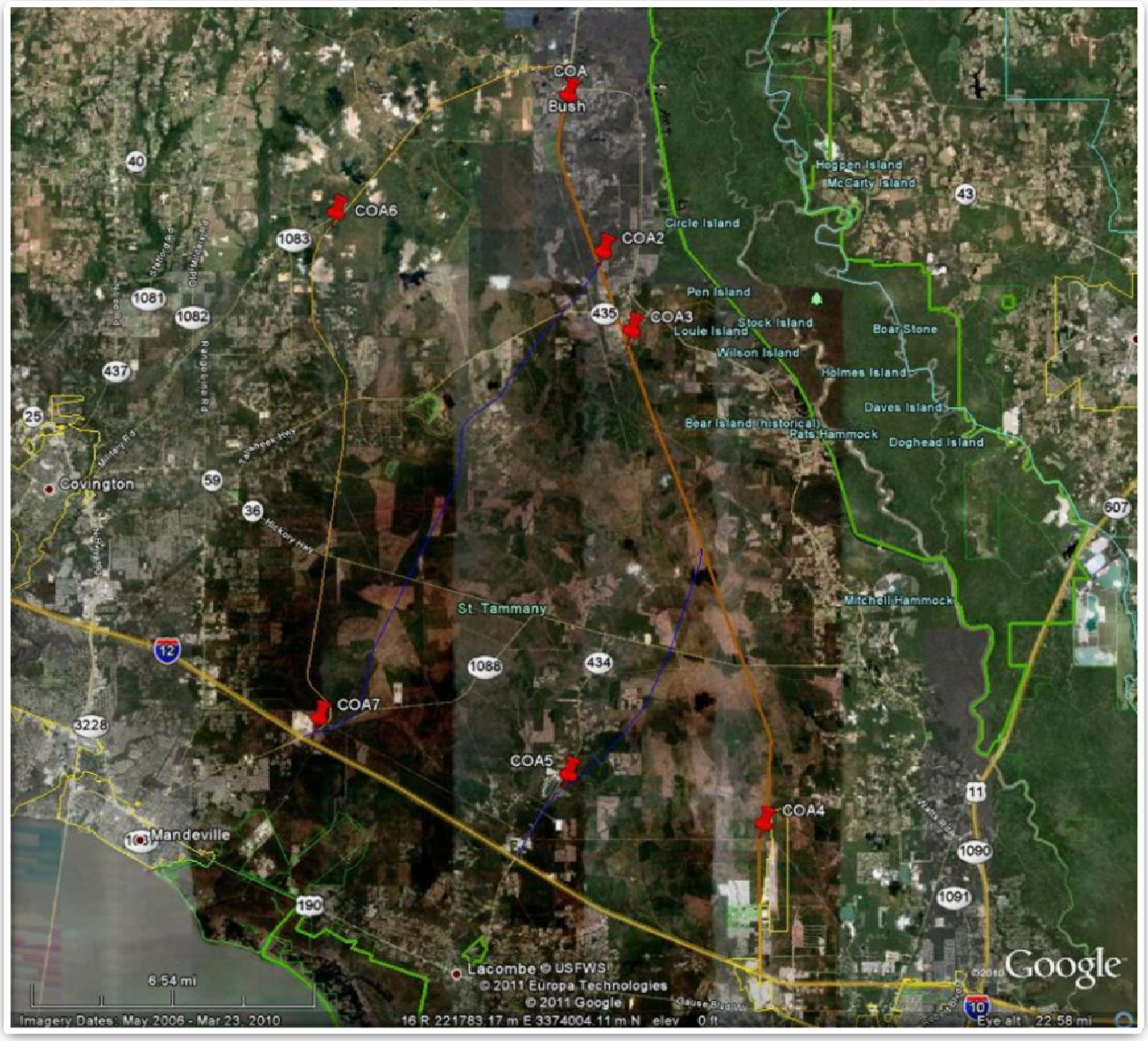

Figure A-5 All Control of Access Start and End Points (Aerial)

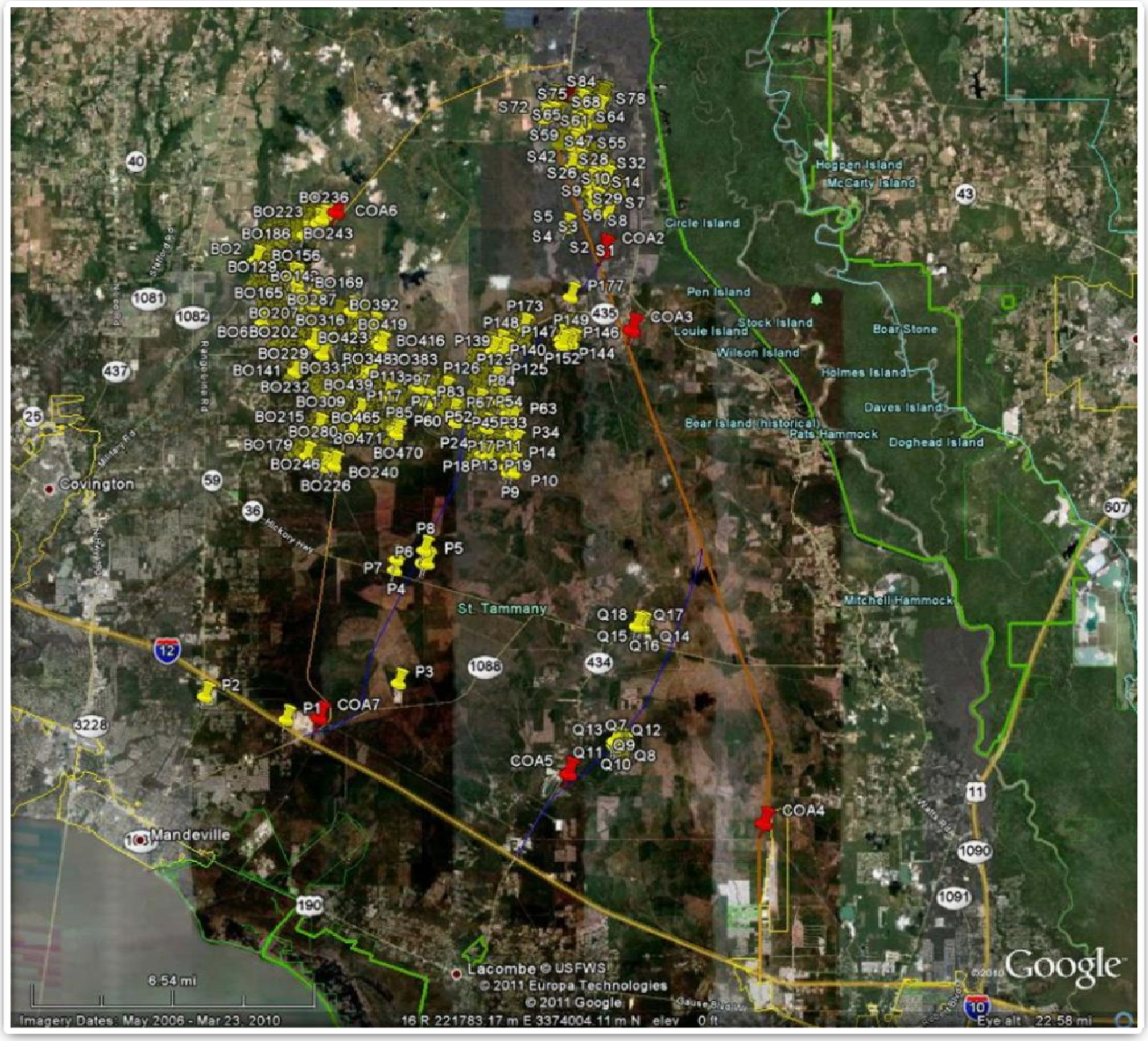

Figure A- 6 All Noise Sensitive Receptors (Aerial)