CONSULTATION AND COORDINATION

INTRODUCTION

NPS DO #12 and other NPS and EFLHD guidance documents require federal agencies to make "diligent" efforts to involve the interested and affected public in the NEPA process. This process, known as scoping, helps to determine important issues and eliminate those that are not; allocate assignments among the interdisciplinary team members and/or other participating agencies; identify related projects and associated documents; identify other permits, surveys, consultations, etc. required by other agencies; and create a schedule that allows adequate time to prepare and distribute the environmental document for public review and comment before a final decision is made.

Public involvement has been an ongoing and key component of this DCP/EA/AOE. This chapter describes the general processes that were used to include the public; appropriate federal, state, and local agencies; and other interested parties in planning and design in a meaningful and productive manner.

FEDERAL, STATE, AND LOCAL AGENCY COORDINATION

Agency coordination for the Jamaica Bay Transportation Studies began in February 2005 with an agency coordination meeting. The purpose of the meeting was to present the existing conditions data and preliminary alternatives to federal, state, and local representatives in order to get initial feedback and regulatory guidance before taking the information to the general public. Invitations to this meeting were extended through personal contact and followed up with phone calls or emails. A scoping packet was produced for the attendees, providing maps of the study areas as well as brief write ups identifying site conditions, planning issues, and a description of the problems associated with each study area. The meeting was attended by representatives from Gateway, other NPS offices, EFLHD, and their consultants, as well as representatives from federal, state, and local government officials and agencies.

Agencies in attendance addressed respective jurisdictional purviews as they relate to specific jurisdictional areas that might be addressed within the study area. The Army Corps of Engineers stated that as long as there were no wetland impacts, or fill activities in navigable waters, the agency would have no jurisdiction. The NYSDEC reported that the only jurisdiction it would have would be within a 150-foot boundary of the waterline. The agency also has preferred stormwater management techniques that it would like to see implemented (these techniques are included in the planning for the BMPs described on page 73 of "Chapter 2: Alternatives"). All of the representatives from the local Community Boards and

elected officials expressed a strong interest in having the study produce realistic alternatives that could be implemented.

Following the meeting, the NPS mailed scoping packets to agencies and representatives who had expressed interest in the study or held jurisdiction over aspects of the area, but had been unable to attend. These mailings included the U.S. Fish and Wildlife Service, as well as the New York State Department of Environmental Conservation. The purpose of these correspondences was to confirm that the no rare, threatened, or endangered species would be impacted by the project. The Fish and Wildlife Service replied over email that they had no comment on the project at that time (See Appendix A). The state verbally concurred that they had no comment at the time. Coordination with both of these agencies will continue during the public review of the document and during the design process to ensure that no rare, threatened, or endangered species are impacted; and that Section 7 of the Endangered Species Act is satisfied.

NPS representatives also visited the Queens and Brooklyn Borough presidents' offices to present the studies and received additional feed back on the initial proposals. All of the input received from these initial agency contacts were used to refine data and alternatives prior to presenting information to the public.

Based on the nature of the study areas and/or the proposals made to address them, the NPS and EFLHD continued their initial agency coordination with several key groups. In April 2005, representatives from the NPS and their consultants met with the NYCDOT to discuss the study areas, existing traffic conditions, and initial thoughts on addressing these areas. The NYCDOT was also able to provide additional information on traffic and road conditions and also give some insight into what would be considered feasible improvements. This input allowed for the development of realistic alternatives for the four areas.

Another consideration that required further agency coordination was the capping of the former landfill sites at Pennsylvania and Fountain Avenues. In June 2005, the NPS and its consultants met with the NYSDEC and its consultants to discuss the scheduling of the landfill capping and closure. The meeting also provided a forum for the NPS to introduce its initial concepts for the sites to see if they would conform with the capping. Several of the initial alternatives at Fountain Avenue included direct access from the Erskine Street interchange on the Belt Parkway. Discussions at this meeting identified that as an infeasible proposal, as landscaping necessary to create the appropriate road improvements would disrupt the landscaping being completed in conjunction with the capping process. The development of a less intrusive bicycle/pedestrian trail would, however, be acceptable.

Along with having realistic alternatives, the NPS and EFLHD wanted to ensure that the proposals did not impair any of the region's resources. The scoping process included agencies with purviews to protect and manage natural resources, as well as cultural resources. Although representatives from the SHPO's office could not attend the initial agency meeting, they were provided with a scoping packet and expressed interest in staying involved in the project. As the alternatives for the study became more definite, the NPS sent the SHPO a letter noting its intention to prepare a combined document that would not only comply with NEPA, but also with Section 106 of the NHPA. Upon completion of the DCP/EA/AOE, the entire document was sent to the SHPO for review and concurrence.

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In addition to this coordination with the SHPO, another round of agency meetings were held during the public review of this DCP/EA/AOE. The meetings allowed the NPS and EFLHD to present the alternatives, obtain immediate agency comment on the proposals, and begin discussions on the future planning and permitting process required to implement the NPS Preferred Alternative at each of the four locations. Agency representatives provided general comments on the final document as well as more specific guidance on implementing the preferred alternatives.

ADDITIONAL PLANNING AND PUBLIC INVOLVEMENT

Representatives from Gateway, the NPS Northeast Regional Office, EFLHD, and their consultants met at Floyd Bennett Field on February 17, 2005 to discuss the progress of the studies and plan future steps in the process. At this time, baseline data on the existing conditions within the study area had been collected and documented. This data was confirmed by NPS personnel who possessed extensive experience with these resources.

Over the next few months, documentation of existing conditions data was finalized and alternative concepts for the four sites were developed. These concepts were designed to illustrate a wide array of possibilities. Following the agency meeting described above, the NPS and EFLHD hosted two identical public information sessions on April 6 and 7, 2005 at Floyd Bennett Field's Ryan Visitor Center and the Fort Tilden Chapel, respectively. The sessions were held in an open house format to allow people to come and go at any point between the opening and closing hours. Prior to the sessions, announcements were posted in local newspapers, on web sites, and sent out to the Gateway mailing list. Representatives from the NPS, EFLHD, and their consultants were on hand to discuss the studies and answer questions. In addition, handouts and displays regarding natural, historical and physical features that exist in the four study areas were available. The displays were supplemented by a powerpoint presentation that ran throughout the session to fully explain the scope and purpose of the projects. Formal and informal comments were collected from the public at these sessions.

The information obtained from these public information sessions was used to help develop conceptual alternatives for the four study areas. As these alternatives began to take shape, representatives from the NPS, EFLHD, and their consultants met at Floyd Bennett Field's Ryan Visitor Center on June 13 and 14, 2005 to review and refine alternatives for progression through the study. This workshop was followed up by a conference call held on June 30, 2005. During the call, workshop attendees discussed the refined alternatives, specifically those that were to be implemented at Floyd Bennett Field. Following the call, representatives from Gateway selected three alternatives at each of the four study sites. These alternatives, along with a No-Action Alternative for each site, were then run through more thorough analysis and presented in this document.

The next step in the planning process was the selection of the NPS Preferred Alternative at each site. To make this determination, the NPS held a value analysis session on October 17, 2005 to critically analyze and weigh the positive elements provided by each alternative. The decisions made at the value analysis session identified the NPS Preferred Alternative for each site as well as the reasoning for the Environmentally Preferred Alternative, discussed in "Chapter 2: Alternatives" of this document.

Upon completion of the DCP/EA/AOE, the document was released for public review. As part of the public review, another round of public open houses was held. The open house sessions were held in the

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same format as the initial meetings, and provided the public with an opportunity to discuss the study's findings with representatives from the NPS, EFLHD, and their consultants.

LIST OF RECIPIENTS

The DCP/EA/AOE will be on formal review for 30 days and has been distributed to a variety of interested individuals, agencies, and organizations. It is also available on the Internet at http://parkplanning.nps.gov and at local libraries.

Federal Agencies and Officials

Senator Hillary Rodham Clinton

Federal Aviation Administration

Representative Gregory W. Meeks

National Oceanic and Atmospheric Administration

Senator Charles E. Schumer

Representative Edolphus Towns

Representative Anthony D. Weiner

U.S. Army Corps of Engineers

U.S. Environmental Protection Agency

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New York State Department of State

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New York City Department of Environmental Protection

New York City Department of Parks and Recreation

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Friends of Gateway

Gateway Marina

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Jamaica Bay Riding Academy

Pennsylvania Avenue Radio Control Society

Regional Plan Association

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2004. Gateway Integrated Transportation Strategy and Implementation Plan.

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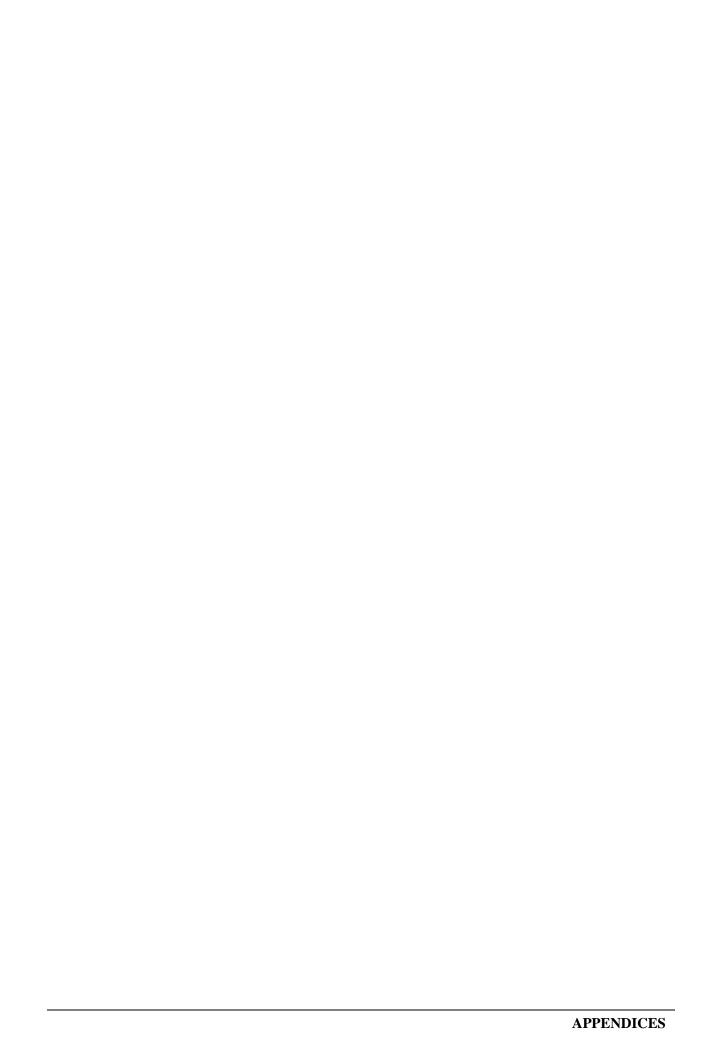
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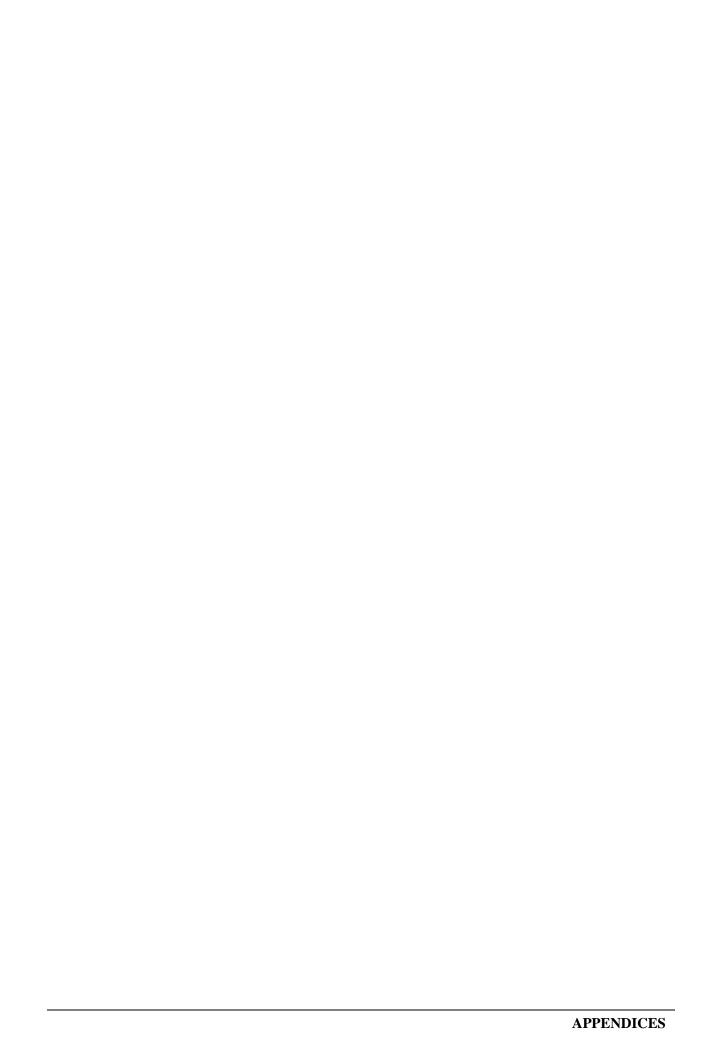
APPENDIX A

AGENCY CORRESPONDENCE



APPENDIX B

WILDLIFE



This Appendix provides a listing of the mammals, reptiles, birds, fisheries and amphibians documented in the Jamaica Bay unit.

Mammals Documented as Occurring in the Jamaica Bay Unit	
Spec	cies
Common Name	Scientific Name
Black-tailed jack rabbit	Lepus californicus
Cottontail rabbit	Sylvilagus floridanus
Eastern chipmunk	Tamias striatus
Gray squirrel	Sciurus carolinensis
Hoary bat	Lasiurus cinereus semotus
House mouse	Mus musculus
Little brown myotis	Myotis lucifugus
Masked shrew	Sorex cinereus
Meadow vole	Microtus pennsylvanicus
Muskrat	Ondatra zibethica
Norway rat	Rattus norvegicus
Opossum	Didelphis virginiana
Raccoon	Procyon lotor
Red bat	Lasiurus blossevillii
Silver-haired bat	Lasionycteris noctivagans
White-footed mouse	Peromyscus leucopus

Reptiles Documented as Occurring in the Jamaica Bay Unit	
Species	
Common Name	Scientific Name
Diamondback terrapin	Malaclemys terrapin
Eastern box turtle*	Terrapene carolina
Eastern garter snake	Thamnophis sirtalis
Eastern hognose snake	Heterodon platirhinos
Eastern milk snake	Lampropeltis triangulum
Eastern painted turtle	Chrysemys picta
Northern black racer	Coluber constrictor constrictor
Northern brown snake	Storeria dekayi dedayi
Red-eared slider	Trachemys scripta elegans
Smooth green snake	Liochlorophis vernalis
Snapping turtle	Chelydra serpentine

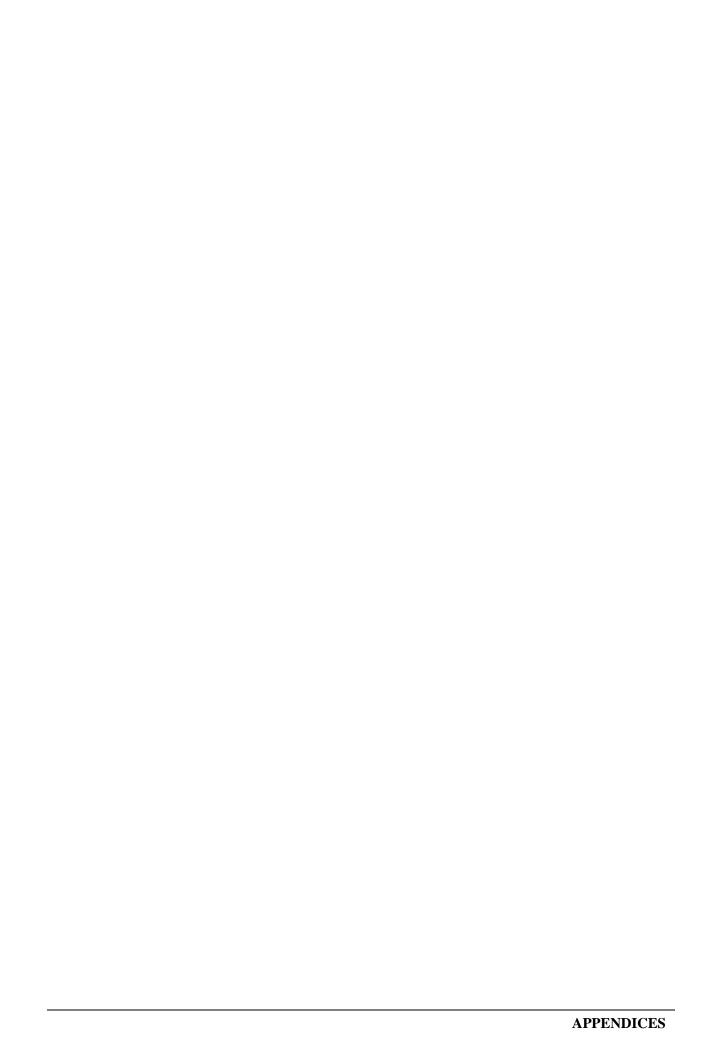
^{*=}state listed species of special concern

Common Name	Scientific Name	Common Name	Scientific Name
American crow	Corvus brachyrhynchos	Greater scaup	Aythya marila
American krestrel	Falco sparverius	Green heron	Butorides virescens
American oystercatcher	Haematopus palliatus	Gull-billed tern	Sterna nilotica
American robin	Turdus migratorius	Herring gull	Larus marinus
Barn owl	Tyto alba	Laughing gull	Larus atricilla
Black duck	Anas rubripes	Least sandpiper	Calidris minutilla
Black-and-white warbler	Mniotilta varia	Least tern**	Sterna antillarum
Black-bellied plover	Pluvialis squatarola	Marsh wren	Cistothorus palustris
Black-crowned night heron	Nycticorax nycticorax	Mourning dove	Zenaida macroura
Bobolink	Dolichonyx oryzivorus	Northern harrier	Circus cyaneus
Brant	Branta bernicula	Osprey*	Pandion haliaetus
Brown thrasher	Toxostoma rufum	Piping plover	Charadrius melodus
Bufflehead	Bucephala albeola	Red-breasted merganser	Mergus serrator
Canada goose	Branta canadensis	Red-tailed hawk	Buteo jamaicensis
Cedar waxwing	Bombycilla cedrorum	Rough-legged hawk	Buteo lagopus johannis
Common tern**	Sterna hirundo	Ruddy duck	Oxyura jamaicensis
Common yellowthroat	Geothlypis trichas	Semipalmated plover	Charadrius semipalmatus
Coopers hawk*	Accipiter cooperi	Semipalmated sandpiper	Calidris pusilla
Double-crested cormorant	Phalacrocorax auritus	Sharp-shinned hawk*	Accipiter striatus
Eastern meadowlarks	Sturnella magna	Short-eared owl	Asio flammeus
European starling	Sturnus vulgaris	Snow goose	Chen caerulescens
Fish crow	Corvus ossigragus	Snowy egret	Egretta thula
Glossy ibis	Plegadis falcinellus	Song sparrow	Melospiza melodia
Grasshopper sparrow	Ammodramus savannarum	Spotted sandpiper	Actitis macularia
Gray catbird	Dumetella carolinensis	Tree swallows	Tachycineta bicolor
Great egret	Casmerodius albus	Upland sandpiper**	Bartramia longicauda
Greater black-backed gull	Larus marinus	Willet	Catoptrophorus semipalmatus

^{* =} state listed species of special concern **= state listed endangered species

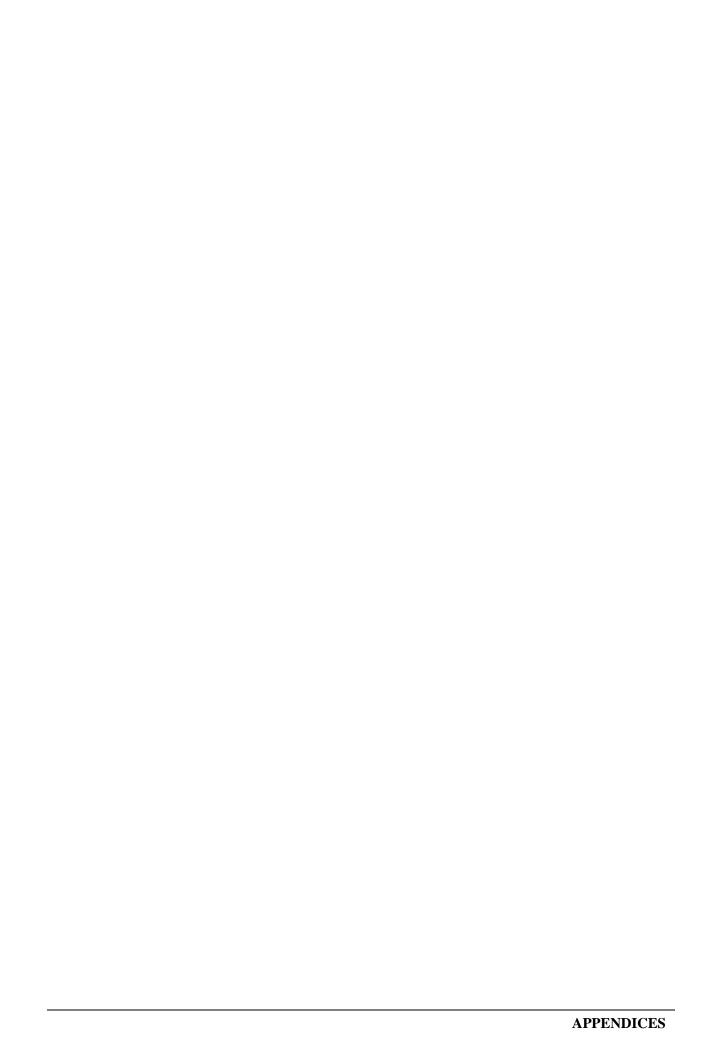
Fisheries Documented as Occurring in the Jamaica Bay Unit			
Common Name	Scientific Name		
Atlantic herring	Clupea harengus		
Monkfish	Lophius americanus		
Red hake	Urophycis chuss		
Whiting	Merluccius bilinearis		
Windowpane flounder	Scophthalmus aquosus		
Winter flounder	Pleuronectes americanus		

Amphibians Documented as Occurring in the Jamaica Bay Unit			
Common Name	Scientific Name		
Spotted salamander	Ambystoma maculatum		
Red-spotted newt	Notophthalmus viridescens		
Redback salamander	Plethodon cinereus		
Fowler's toad	Bufo woodhousii fowleri		
Northern spring peeper	Pseudacris crucifer		
Gray tree frog	Hyla chrysoscelis		
Green frog	Rana clamitans		
Eastern spadefoot toad	Schaphiopus holbrookii		



APPENDIX C

CULTURAL RESOURCES



This Appendix provides supplemental information on the cultural resources associated with Jacob Riis Park and Floyd Bennett Field. Because of the size of these two historic districts, and the general nature of the Affected Environment Chapter of this document, specific resource information is provided in this appendix rather than in the document itself. This Appendix also provides specific architectural descriptions and historical significance of many of the buildings and structures not immediately impacted by the alternatives presented.

Jacob Riis Park

Bathing Pavilion

The Bathing Pavilion, commonly referred to as the bathhouse, is a good example of Art Deco design adapted to architecture. Art Deco style is characterized by streamlined geometric shapes and occasional polychrome patterns. This style was particularly concentrated in New York City during the early 20th century. John L. Plock began designing the bathhouse in 1930 and construction began in 1932. The building and grounds have survived relatively unaltered since 1937 and remain a good example of prevalent aesthetic design during the 1930s. The roughly T-shaped building consists of a rectangular, single-story unit built in 1932. The use of ornamental masonry and brick details on the 1932 portions were typical of New York City Parks Department and other public buildings o the period. The original site work in the immediate vicinity of the building relates to a highly formal and symmetrical structure that was modeled on the successful Jones Beach Bathhouse completed in 1929. The building was enlarged in 1936-1937 when the New York City Department of Parks built a long, two-story addition on the south. In 1937, the bathhouse was completely renovated. In 1964, the bathhouse was sandblasted weakening the bricks and destroying the integrity of the overall color scheme of the park structures. Today, the remaining 1932 and 1936-1937 site work is of historic interest for its relationship to the bathhouse structure and for its characteristic formality, similar to other seashore parks of the period in the New York region. The importance of the 1936-1937 site work alterations in the bathhouse area derive from their relationship to the overall circulation and spatial organization at Jacob Riis Park. They modified the bathhouse area from an isolated, recreational outpost along the beach into an entry for a much larger, coordinated complex of outdoor recreational characteristics of other similar development of the period in the New York region.

Character-Defining Features of the Bathhouse

The character-defining elements of the Bathhouse that represent important historic architectural and cultural values include the following:

- Symmetry of the landscape, walkways, and buildings remains strongly visible and relates strongly to overall form of the larger park, which is representative of public seaside parks of the era.
- Bathhouse area still plays same potential function it had in 1932 and 1936 plans.
- Border plantings on the north, east, and west sides of building remain and highlight elements characteristic of 1930-1940s. They also reinforce setting.
- The bathhouse, which is a collection of buildings linked by enclosing walls, is the only building in this area of the park. It is very high in significance and predates the larger plan for the area. Retention and rehabilitation of the bathhouse for public use is central to historic values of the landscape.
- Development with strong symmetry along a central north south axis, which is reinforced by turrets on entrance pavilion and larger towers on the beach pavilion. The towers are important

orientation elements throughout the park and all elements were part of site design in 1932-1937 periods and are important attributes of historic landscape.

Wise Clock

In 1941, the Wise Clock, also known as the Riis Memorial Clock, was installed on the Boardwalk at the east end of the eclipse. This structure was donated to the Park Department by William A. Wise and Sons, a Brooklyn Jeweler. The four-faced clock stood in front of the original Wise and Sons store at Flatbush Avenue and Nevins Avenue for almost 30 years. When the firm went out of business, the Wise family gave the clock to the Park Department. The large, distinctive-looking clock was originally topped by a weather vane of a sailor looking through a spy glass.

Pump House

Similar in design and materials to other support structures erected in the 1936-1937 expansion of Jacob Riis Park, this building's functions are compatible with the use of Jacob Riis Park. Its design is a compliment to adjacent Bathhouse buildings.

Boardwalk

Repairs to original fabric of the Boardwalk have resulted in replacement with inappropriate material and repairs have not always been made with the best workmanship. The Boardwalk area was originally split into two segments by the projecting front porch of the 1932 beach pavilion and by 1936-1937, the Promenade extended to the property limit. It was widened in front of the Bathhouse and the crescent Boardwalk that was created centered on the Mall buildings, and was the major focal point for activities. At one time, there was a bandstand and dance floor between the Mall buildings which was removed in 1954 when the area was re-decked. In 1969-1970, the timber Boardwalk was replaced with a concrete deck and the original railings were removed and reset in concrete.

In addition to these railings, a ship's railing was installed along the Boardwalk during the 1936-1937 construction period when the design impulse changed from Byzantine/Moorish to Art Deco-Modern. This has become a prominent site element which provides continuity and scale to the Park. While some of the present rail is replacement material, components of the original still remain.

In 1958, the last section of the Boardwalk/Promenade was extended to complete this structure. The Boardwalk/Promenade is an integral and important element of overall Park design, and pivotal to the historic significance of Jacob Riis Park.

Character-Defining Features of the Boardwalk

The character-defining elements of the Boardwalk/Promenade that represent important historic architectural and cultural values include the following:

- The overall layout remains substantially as originally designed;
- The form compliments buildings, the ellipse relates to curved Mall buildings, and the straight section relates to the Bathhouse;
- The overall shape and form of the Boardwalk are critical elements to the creation of an integrated recreational complex at Jacob Riis Park in terms of its ability to link east and west areas;
- The strong relationship to key buildings and uses within the Park and the pedestrian quality is retained;

- All of the Park's important structures front the walk, and the relationship of these to the Boardwalk is of primary historic significance as the relationships between their uses and forms are an important aspect of the integrated recreational concept;
- The overall walk serves as a viewing platform from which all other activities can be observed or reached;
- The ship's rail is the most prominent piece of site furniture;
- The Boardwalk provides the only continuous east/west circulation route across Jacob Riis Park and ties the long, linear Park together both physically and visually; and
- The layout, circulation, and points of access originally designed and completed in 1936-1937 still exist.

Boiler Room

Attached to the West Mall Building by a subterranean passage, this building was constructed as part of Robert Moses' Jacob Riis Park expansion of 1936-1937.

Garage

This building was constructed as part of Robert Moses' Jacob Riis Park expansion of 1936-1937 and was undertaken as part of the nation's largest WPA-sponsored projects.

Park Police Stables

Built as part of the 1936-1937 Jacob Riis Park expansion, these were considered support structures for expanded facilities, and reflect a more-standardized, less-stylized construction than Art Deco-Moderne buildings on the Mall. However, these structures remain an intact part of the historic Park layout.

Utility Buildings

These buildings were located adjacent to the lighted ball field and the Bathhouse. Built in 1940, they were used to house floodlight controls, a transformer, and a pump house.

Ball Field Electrical Building

In 1941, the open space at the east end of the Boardwalk was converted for use as a ball field. The electrical building serves that field. Its design is a refinement of the prevalent Art Deco-Moderne style introduced in the Park in 1936-1937.

Administration Building

This two-story Neo-Georgian style red- and black-brick building was constructed in 1931. As originally designed, the building housed a restaurant, cafeteria, post office, dorms, lounge, weather bureau, and Department of Commerce Officer. The building underwent repairs and alterations during the WPA period and was adapted for use by the U.S. Navy. Today, the building is unoccupied and in need of general repair. There is a non-significant frame addition attached to the north end of the building during U.S. Navy occupation and is scheduled to be removed by the NPS.

Floyd Bennett Field

Pedestrian Tunnel

In conjunction with expansion of the apron at Floyd Bennett Field, an innovative passenger tunnel was installed to lead passengers underground from the terminal to allow them to emerge near their airplane. This tunnel, abandoned for many years, is intact and still accessible from the basement level of the terminal building. As installed, a flight of stairs led from the east side of the lobby to a basement-level landing, then down another short flight to the tunnel level. The tunnel itself extends eastward from the terminal a distance of 124 feet to intersect a transverse end at short cross corridors leading to stairs which lead to the apron.

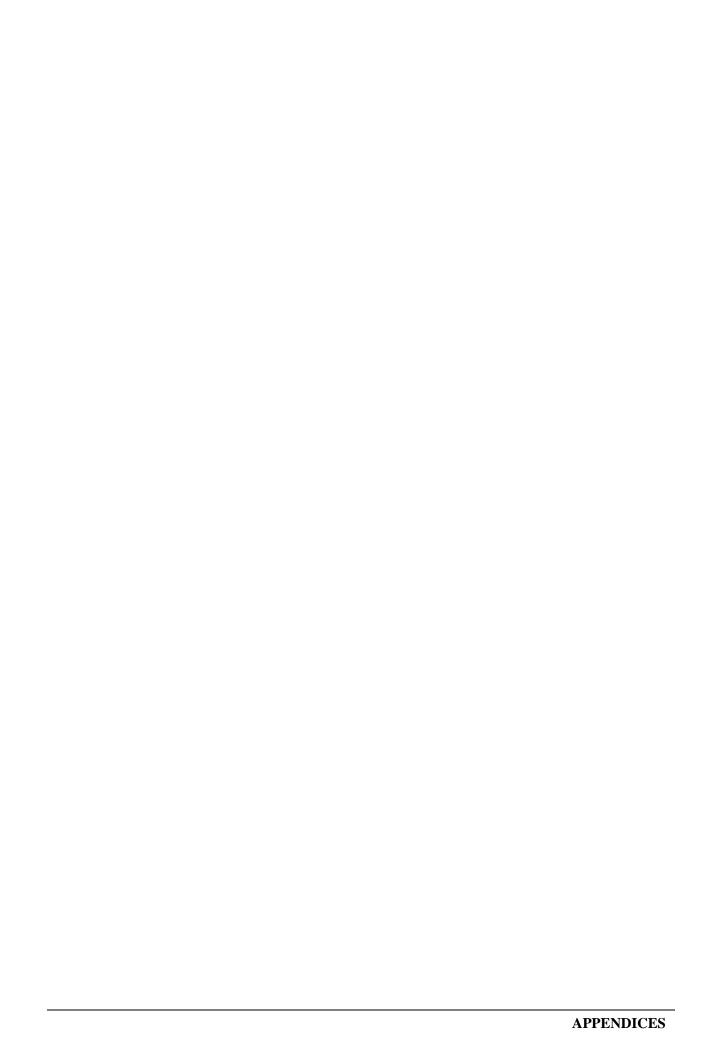
Smaller Structures in Hangar Row

Smaller structures in Hangar Row that date from the historic period include: fire pump house (Building 29), sewage pump house (Building 30), electrical vault (Building 57), North and South vaults (Buildings 88 and 117), utility vault (Building 101), and transformer vault (Building 120). All of these are located in the northern section of the property and date from the World War II period. The pump house contains operating pump machinery and tanks, and the electrical vault houses electrical equipment to support the activities on the airfield. The brickwork is not in good condition and requires some patching. The transformer building is located north of the hangars along the taxiway and is still used to house transformer facilities.

Within the original boundaries of the municipal airport, there are several structures built after 1941 that are intrusions. Some were constructed in the main complex of buildings, while others are more recent and are located on the east side of the Field on what was open flying field in 1931-1941. None of these more recent buildings contribute to the historic significance of the district. Intrusive buildings within the main building complex include Hangars 9 and 10, which are wood-frame attached hangars built by the U.S. Navy circa 1942. Structures 44, 45, 266, and 238 are small, single-story concrete block buildings used as storehouses. Structure 265A is a small shed. Structure 171 is a wood-frame addition to the administration building, while structures 48 and 50 are single-story, wood-frame buildings that used to house U.S. Navy training facilities and a garage. Shop structures 126 and 236 are small, single-story sheds used for storage.

APPENDIX D

NOISE METHODOLOGY



The noise analysis conducted under this study was prepared for the NPS and EFLHD, and followed the New York State Department of Transportation (NYSDOT) and FHWA noise evaluation and abatement procedures.

Noise Terminology

Noise is defined as unwanted or excessive sound. Sound becomes unwanted when it interferes with normal activities such as sleep, work, or recreation. The individual human response to noise is subject to considerable variability, since there are many emotional and physical factors that contribute to the differences in reaction to noise.

Sound (noise) is described in terms of loudness, frequency, and duration. Loudness is the sound pressure level measured on a logarithmic scale in units of decibels (dB). For community noise impact assessment, sound level frequency characteristics are based upon human hearing, using an A-weighted (dBA) frequency filter as it approximates the way humans hear sound.

The most common way to account for the time varying nature of sound (duration) is through the equivalent sound level measurement, referred to as L_{eq} . The L_{eq} averages the background sound levels with short-term transient sound levels and provides a uniform method for comparing sound levels that vary over time. The time period used for highway noise analysis is typically one hour. FHWA guidelines and criteria require the use of the one-hour L_{eq} for assessing highway noise impacts on different land uses.

The following general relationships exist between hourly traffic noise levels and human perception:

- A 1 or 2 dBA increase is not perceptible to the average person;
- A 3 dBA increase, although a doubling of acoustic energy, is just barely perceptible to the human ear; and,
- A 10 dBA increase is a ten-fold increase in acoustic energy, but is perceived as a doubling in loudness to the average person.

Noise Abatement Criteria

Traffic noise can adversely affect human activities, such as communication. FHWA has established Noise Abatement Criteria (NAC) to help protect the public health and welfare from excessive vehicle traffic noise. Recognizing that different areas are sensitive to noise in different ways, the NAC varies according to land use. The NYSDOT endorses FHWA procedures and considers adverse noise impacts to occur when existing or future sound levels approach 1 dBA or exceed the NAC, or when future sound levels exceed existing sound levels by six dBA or more. These guidance criteria are the recommended maximum levels for identifying locations that may be affected by noise.

Typical Sound Levels			
	Sound Pressure (µPa)	Sound Level (dBA)	
Outdoor Sound Levels	·		Indoor Sound Levels
Jet Over-Flight at 300 m	3,324,555	110	Rock band at 5 m
		105	
Gas Lawn Mower at 1 m	2,000,000	100	Inside New York subway train
		95	
Diesel Truck at 15 m	632,456	90	Food blender at 1 m
		85	
Noisy Urban Area-Daytime	200,000	80	Garbage disposal at 1 m
		75	Shouting at 1 m
Gas Lawn Mower at 30 m	63,246	70	Vacuum cleaner at 3 m
		65	Normal speech at 1 m
Suburban Commercial Area	20,000	60	
		55	Quiet conversation at 1 m
Quiet Urban Area-Daytime	6,325	50	Dishwasher in next room
		45	
Quiet Urban Area-Nighttime	2,000	40	Empty theater or library
		35	
Quiet Suburb-Nighttime	632	30	Quiet bedroom at night
		25	Empty concert hall
Quiet Rural Area-Nighttime	200	20	
		15	Broadcast and recording studios
Rustling Leaves	63	10	
		5	
Reference Pressure Level	20	0	Threshold of hearing

μPA MicroPascals describe pressure. The pressure level is what sound level monitors measure.

dBA A-weighted decibels describe pressure logarithmically with respect to 20 μPa (the reference pressure level).

Source: Highway Noise Fundamentals, Federal Highway Administration, September 1980.

Methodology

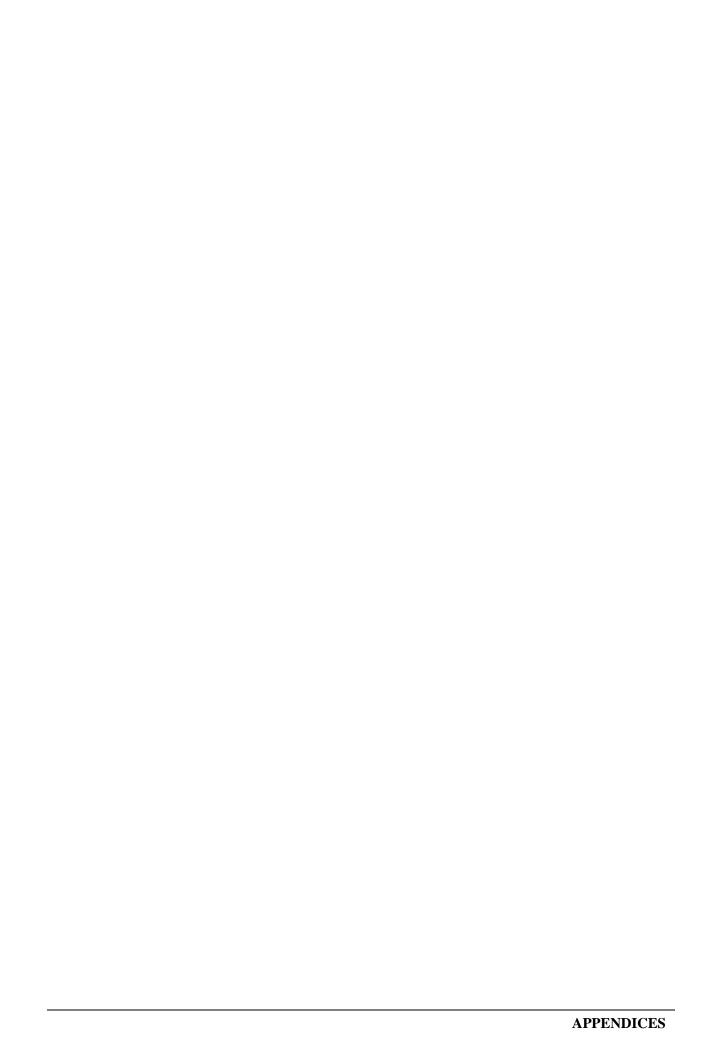
The noise analysis evaluated the highest noise levels in the study area, which were assumed to occur during the evening peak hour traffic commuting period. The sound levels were calculated using FHWA's approved noise modeling methodology. FHWA's current noise prediction model is *Traffic Noise Model (TNM)* 2.5. The modeling input data included peak-hour traffic volumes, vehicle mix, vehicle speeds, and roadway and receptor geometry.

Noise Abar Activity	tement Criteria (N <i>F</i>	AC) – One-Hour A-Weighted Sound Levels in dBA
Category	L _{eq} (h)	Description of Activity Category
A	57 (Exterior)	Lands on 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 purposes
В	67 (Exterior)	Picnic areas, recreation areas, playgrounds, active sports areas, parks, residences, motels, hotels, schools, churches, libraries, and hospitals
С	72 (Exterior)	Developed lands, properties, or activities not included in Categories A or B above
D	(No Set Criteria)	Undeveloped lands
E	52 (Interior)	Residences, motels, hotels, public meeting rooms, schools, churches, libraries, hospitals, and auditoriums

 $L_{\text{eq(h)}}$ is an energy-averaged, one-hour, A-weighted sound level in decibels (dBA).

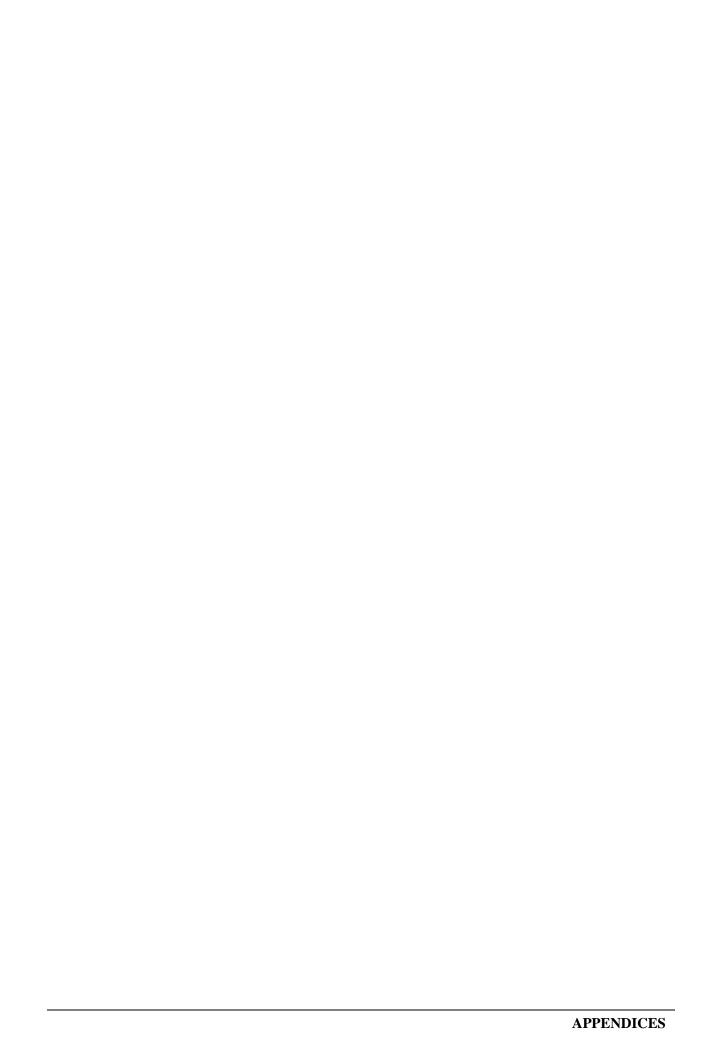
Source: 23 CFR Part 772, Procedures for Abatement of Highway Traffic Noise and Construction Noise.

The noise analysis evaluated two parameters to help identify potential noise impacts. These parameters included the existing sound levels at a representative distance of 50 feet and the distance from the centerline of the roadway to the 66 dBA contour line for each corridor. The representative distance of 50 feet was selected as the worst-case distance from the roadway to a residential building. The 66 dBA contour line was selected because the residential NAC is 67 dBA and an impact is considered to occur if noise levels approach one dBA of the NAC. The existing sound levels were calculated using the TNM model.



APPENDIX E

SUMMARY OF ENVIRONMENTAL CONSEQUENCES



Appendix F: Summary of Environmental Consequences						
	Site	Alternative A	Alternative B	Alternative C	Alternative D	
		No changes would be made to existing soil or topographic conditions.	Approximately 1,000 sf of new impervious surface installed within median.	Approximately 0.5 acre (22,000 sf) of new impervious surface installed within median.	Approximately 0.5 acre (22,000 sf) of new impervious surface installed within median.	
Soils and Topography	Floyd Bennett Field	Overall impact: long- term, negligible, and adverse	Overall impact: long-term, negligible, and adverse.	Overall impact: long-term, negligible, and adverse.	Overall impact: long-term, negligible, and adverse.	
		Alternative contributes imperceptible, adverse increments to a long-term, minor beneficial cumulative impact.	Alternative contributes imperceptible, adverse increments to a long-term, minor beneficial cumulative impact.	Alternative contributes imperceptible, adverse increments to a long-term, minor beneficial cumulative impact.	Alternative contributes imperceptible, adverse increments to a long-term, minor beneficial cumulative impact.	

Appendix F: Summary of Environmental Consequences					
Site	Alternative A	Alternative B	Alternative C	Alternative D	
	The amount of	Approximately 0.1	Approximately 0.8	Approximately 1.0	
	impervious cover	acre (6,000 sf) of	acre (37,000 sf) of	acre (44,000 sf) of	
	would remain	impervious surface	impervious surface	impervious surface	
	constant. Vehicles	would be installed.	would be installed.	would be installed.	
	driving along Beach	The modification and	The modification and	The modification and	
	Channel Drive may	reduction in size of the	reduction in size of the	reduction in size of the	
	continue to make	existing roundabout	existing roundabout	existing roundabout	
	illegal U-turns over	would allow an	would allow an	would allow an	
	the median, causing	estimated 1.2 acres	estimated 1.2 acres	estimated 1.2 acres	
	some disruption and	(55,000 sf) of current	(55,000 sf) of current	(55,000 sf) of current	
Jacob Riis	erosion to soils.	impervious surface to	impervious surface to	impervious surface to	
Park		be returned to natural	be returned to natural	be returned to natural	
	Overall impact: long-	ground cover.	ground cover.	ground cover.	
	term, negligible,	0 111	0 111	0 111	
	adverse	Overall impact: long-	Overall impact: long-	Overall impact: long-	
	A1,	term, moderate,	term, minor,	term, minor,	
	Alternative contributes	beneficial.	beneficial.	beneficial.	
	imperceptible, adverse	Alternative contributes	Alternative contributes	Alternative contributes	
	increments to a long- term, minor, beneficial				
	cumulative impact.	imperceptible, adverse increments to a long-	imperceptible, adverse increments to a long-	imperceptible, adverse increments to a long-	
	cumulative impact.	term, minor, beneficial	term, minor, beneficial	term, minor, beneficial	
		cumulative impact.	cumulative impact.	cumulative impact.	
		camarative impact.	camarative impact.	cumulative impact.	

Appendix F: Summary of Environments Site	Alternative A	Alternative B	Alternative C	Alternative D
	Without new parking	Approximately 3.7	The development of a	Impacts would be
	infrastructure,	acres (165,000 sf) of	new sidewalk would	similar to those
	increasing visitation	natural ground cover	be immeasurable.	described under
	would require more	would be lost to	Other impacts would	Alternative A.
	regular use of	impervious surface.	be similar to those	
	overflow parking	0 111 1	described under	Overall impact: long-
	areas. These areas are	Overall impact: long-	Alternative A.	term, negligible,
	primarily lawns or	term, minor, adverse	0 111	adverse
	graveled areas. The		Overall impact: long-	
	continued use of these		term, negligible,	Alternative contributes
	sites could compress	Alternative contributes	adverse	imperceptible, adverse
Riis Landing	soils and/or lead to the	imperceptible, adverse	A1	increments to a long-
-	loss of the upper	increments to a long-	Alternative contributes	term, minor, beneficial
	layers of soil.	term, minor, beneficial cumulative impact.	imperceptible, adverse increments to a long-	cumulative impact.
	Overall impact: long-	camarative impact.	term, minor, beneficial	
	term, negligible,		cumulative impact.	
	adverse		cumulative impact.	
	Alternative contributes			
	imperceptible, adverse			
	increments to a long-			
	term, minor, beneficial			
	cumulative impact.			

Appendix F: Summary of Environ	mental Consequences			
Site	Alternative A	Alternative B	Alternative C	Alternative D
	Soils would remain	Approximately 4.6	Approximately 4.3	Approximately 5.3
	compacted and	acres (199,000 sf) of	acres (187,000 sf) of	acres (233,000 sf) of
	exposed. The lack of	impervious surface	impervious surface	impervious surface
	development would	would be installed at	would be installed at	would be installed at
	leave them open to	the two sites. This	the two sites. This	the two sites. This
	future erosion and	would eliminate	would eliminate	would eliminate
	compaction,	natural ground cover	natural ground cover	natural ground cover
	eliminating the change	conditions, from areas	conditions, from areas	conditions, from areas
	of natural ground	that are already	that are already	that are already
New NPS	cover.	lacking these qualities.	lacking these qualities.	lacking these qualities.
Sites				
	Overall impact: long-	Overall impact: long-	Overall impact: long-	Overall impact: long-
	term, minor to moderate, adverse	term, minor, adverse	term, minor, adverse	term, minor, adverse
	Alternative contributes	Alternative contributes	Alternative contributes	Alternative contributes
	imperceptible, adverse	imperceptible, adverse	imperceptible, adverse	imperceptible, adverse
	increments to a long-	increments to a long-	increments to a long-	increments to a long-
	term, minor, beneficial	term, minor, beneficial	term, minor, beneficial	term, minor, beneficial
	cumulative impact.	cumulative impact.	cumulative impact.	cumulative impact.

Annendiy F: Sumr	mary of Environm	ental Consequences			
Appendix 1. Julii	Site	Alternative A	Alternative B	Alternative C	Alternative D
		Vegetation throughout	Approximately 1,000	Approximately 0.5	Approximately 0.5
		the site would	sf of impervious	acre (21,000 sf) of	acre (21,000 sf) of
		continue to be	surface would be	impervious surface	impervious surface
		impacted by	installed over existing	would be installed	would be installed
		stormwater runoff,	green space.	over existing green	over existing green
	vehicular exhaust, and		space. Approximately	space. Approximately	
		the occasional off-road	Overall impact: long-	16 immature trees	16 immature trees
		activity.	term, negligible, and	would be removed.	would be removed.
T 7 4 4*	Floyd	0 11 1	adverse.	0 11 1	0 11 1 1
Vegetation	Bennett Field	Overall impact: long-		Overall impact: long-	Overall impact: long-
		term, negligible, and	Alternative contributes	term, minor, and	term, minor, and
		adverse.	imperceptible, adverse increments to a long-	adverse.	adverse.
		Alternative contributes	term, negligible,	Alternative contributes	Alternative contributes
		imperceptible, adverse	beneficial cumulative	imperceptible, adverse	imperceptible, adverse
		increments to a long-	impact.	increments to a long-	increments to a long-
		term, negligible,		term, negligible,	term, negligible,
		beneficial cumulative		beneficial cumulative	beneficial cumulative
		impact.		impact.	impact.

Appendix F: Summary of Environm				
Site	Alternative A	Alternative B	Alternative C	Alternative D
	Stormwater runoff	Approximately 0.1	Approximately 0.8	Approximately 1.0
	could adversely	acre (6,000 sf) of	acres (37,000 sf) of	acres (44,000 sf) of
	impact vegetation	vegetation would be	green space would be	green space would be
	immediately	lost to impervious	converted to	converted to
	surrounding the roads,	surface.	impervious surface	impervious surface
	as could any off road	Approximately 1.2	through the	through the
	driving in the median.	acres (55,000 sf)	installation of the new	installation of the new
		would be returned to	intersection.	bridges.
	Overall impact: long-	green space through	Approximately 1.2	Approximately 1.2
	term, negligible,	the improvements	acres (55,000 sf)	acres (55,000 sf)
	adverse.	made at the roundabout.	would be returned to green space through	would be returned to green space through
	Alternative contributes		the improvements	the improvements
Jacob Riis	imperceptible, adverse	Overall impact: long-	made at the	made at the
Park	increments to a long-	term, moderate,	roundabout.	roundabout.
	term, negligible,	beneficial.		
	beneficial cumulative		Overall impact: long-	Overall impact: long-
	impact.	Alternative contributes	term, minor,	term, minor,
		imperceptible, adverse	beneficial.	beneficial.
		increments to a long-		
		term, negligible,	Alternative contributes	Alternative contributes
		beneficial cumulative	imperceptible, adverse	imperceptible, adverse
		impact.	increments to a long-	increments to a long-
			term, negligible,	term, negligible,
			beneficial cumulative	beneficial cumulative
			impact.	impact.

Appendix F: Summary of Environme	ental Consequences			
Site	Alternative A	Alternative B	Alternative C	Alternative D
	The repeated use of	An estimated 3.7 acres	Less than 0.1 acre	Impacts would be
	these lawns for	(165,000 sf) of green	(3,500 sf) of	similar to those
	parking would	space would be lost to	maintained lawn	described under
	eventually lead to the	impervious surface.	would be removed.	Alternative A.
	loss of the grasses that		Other impacts would	
	support the park-like	Overall impact: long-	be similar to	Overall impact: long-
	setting at Fort Tilden.	term, minor, adverse.	Alternative A.	term, negligible,
				adverse
Riis Landing	Overall impact: long-	Alternative contributes	Overall impact: long-	
S	term, negligible,	imperceptible, adverse	term, negligible, and	Alternative contributes
	adverse.	increments to a long-	adverse.	imperceptible, adverse
	Alternative contributes	term, negligible, beneficial cumulative	Alternative contributes	increments to a long-
				term, negligible, beneficial cumulative
	imperceptible, adverse increments to a long-	impact.	imperceptible, adverse increments to a long-	impact.
	term, negligible,		term, negligible,	impact.
	beneficial cumulative		beneficial cumulative	
	impact.		impact.	
	impact.		impact.	

Appendix F: Summary of Environme	ental Consequences			
Site	Alternative A	Alternative B	Alternative C	Alternative D
	Soils would remain	Approximately 4.6	Approximately 4.3	Approximately 5.3
	compacted and	acres (199,000 sf) of	acres (187,000 sf) of	acres (233,000 sf) of
	exposed, unable to	impervious surface	impervious surface	impervious surface
	support healthy	would be installed.	would be installed.	would be installed.
	vegetation. Exotic or	This would prevent	This would prevent	This would prevent
	native species would continue to take root	the development of much vegetation.	the development of much vegetation.	the development of much vegetation.
	along the edges of the site.	However, medians and curbs would be	However, medians and curbs would be	However, medians and curbs would be
Now NDC		planted with native,	planted with native,	planted with native,
New NPS Sites	Overall impact: long-	park-like vegetation.	park-like vegetation.	park-like vegetation.
Sites	term, moderate,			
	adverse	Overall impact: long-	Overall impact: long-	Overall impact: long-
		term, minor, beneficial	term, minor, beneficial	term, minor, beneficial
	Alternative contributes			
	imperceptible, adverse	Alternative contributes	Alternative contributes	Alternative contributes
	increments to a long-	imperceptible,	imperceptible,	imperceptible, adverse
	term, negligible,	beneficial increments	beneficial increments	increments to a long-
	beneficial cumulative	to a long-term,	to a long-term,	term, negligible,
	impact.	negligible, beneficial	negligible, beneficial	beneficial cumulative
		cumulative impact.	cumulative impact.	impact.

Appendix F: Sumn	nary of Environm	ental Consequences			
	Site	Alternative A	Alternative B	Alternative C	Alternative D
Wildlife and		Existing circulation and visitor use patterns would continue to create noise impacts. Overall impact: long-term, negligible, and adverse. Alternative contributes	Approximately 1,000 sf of green space would be lost in the median. Runway closures would improve the wildlife corridor within the Field. Overall impact: long-term, minor, and	Approximately 0.5 acre (21,000 sf) of green space would be lost in the median. Approximately 16 immature trees would also be removed. Ample runway closures would greatly improve the wildlife corridor within the	Approximately 0.5 acre (21,000 sf) of green space would be lost in the median. Approximately 16 immature trees would also be removed. Ample runway closures would greatly improve the wildlife corridor within the
Wildlife Habitat	Floyd Bennett Field	imperceptible, adverse increments to a long-term, negligible, adverse cumulative impact.	beneficial. Alternative contributes imperceptible, beneficial increments to a long-term, negligible, adverse cumulative impact.	Field. Overall impact: long-term, moderate, and beneficial. Alternative contributes noticeable, beneficial increments to a long-term, negligible, adverse cumulative impact.	Field. Overall impact: long-term, moderate, and beneficial. Alternative contributes noticeable, beneficial increments to a long-term, negligible, adverse cumulative impact.

ppendix F: Summary of Environr Site	Alternative A	Alternative B	Alternative C	Alternative D
	Vehicular noises,	Installation of the new	An estimated 0.8 acre	An estimated 1.0 acre
	human activities, and	turning lane would	(37,00 sf) of green	(44,000 sf) of green
	existing structures	result in the loss of	space would be	space would be
	would continue to	approximately 0.1 acre	removed. The	removed. The
	impact wildlife,	(6,000 sf) of existing	realignment and	realignment and
	precluding some	grassy habitat along	reduction in size of the	reduction in size of the
	species from certain	the roadway. The	existing roundabout	existing roundabout
	areas.	realignment and	would result in an	would result in an
		reduction in size of the	increase of an	increase of an
	Overall impact: long-	existing roundabout	estimated 1.2 acres	estimated 1.2 acres
	term, negligible,	would result in an	(55,000 sf) of green	(55,000 sf) of green
	adverse	increase of an	space.	space.
Jacob Riis	Alternative contributes	estimated 1.2 acres	Overell immest, long	Overell imports long
Park	imperceptible, adverse	(55,000 sf) of green space within an	Overall impact: long- term, moderate,	Overall impact: long-term, moderate,
Tark	increments to a long-	existing corridor.	beneficial.	beneficial.
	term, negligible,	existing confider.	oenericiai.	bellericiai.
	adverse cumulative	Overall impact: long-	Alternative contributes	Alternative contributes
	impact.	term, moderate,	imperceptible,	imperceptible,
	•	beneficial.	beneficial increments	beneficial increments
			to a long-term,	to a long-term,
		Alternative contributes	negligible, adverse	negligible, adverse
		imperceptible,	cumulative impact.	cumulative impact.
		to a long-term,		
		cumulative impact.		
		imperceptible, beneficial increments		

Appendix F: Summary of Environmental Consequences						
Site	Alternative A	Alternative B	Alternative C	Alternative D		
	Impacts would consist of common occurrences in the urban environment.	The new parking lot would eliminate approximately 3.7 acres (165,000 sf) of low-quality habitat.	Impacts would consist of common occurrences in the urban environment.	Impacts would consist of common occurrences in the urban environment.		
Riis Landing	Overall impact: long-term, negligible, adverse.	Overall impact: long-term, minor, adverse.	Overall impact: long-term, negligible, adverse.	Overall impact: long-term, negligible, adverse.		
	Alternative contributes imperceptible, adverse increments to a long-term, negligible, adverse cumulative impact.	Alternative contributes imperceptible, adverse increments to a long-term, negligible, adverse cumulative impact.	Alternative contributes imperceptible, adverse increments to a long-term, negligible, adverse cumulative impact.	Alternative contributes imperceptible, adverse increments to a long-term, negligible, adverse cumulative impact.		

Appendix F: Summary of Environme	ental Consequences			
Site	Alternative A	Alternative B	Alternative C	Alternative D
	The poor soil	The site would be	The site would be	The site would be
	conditions and lack of	developed, but would	developed, but would	developed, but would
	vegetation would	not result in the loss of	not result in the loss of	not result in the loss of
	make the	any real habitat. Noise	any real habitat. Noise	any real habitat. Noise
	administrative areas	intrusions from the	intrusions from the	intrusions from the
	inhabitable.	new parking lot would	new parking lot would	new parking lot would
		be standard for the	be standard for the	be standard for the
	Overall impact: long-	urban environment	urban environment	urban environment
	term, negligible,	and would not greatly	and would not greatly	and would not greatly
	adverse	enhance existing	enhance existing	enhance existing
New NPS		noises.	noises.	noises.
Sites	Alternative contributes			
	imperceptible, adverse	Overall impact: long-	Overall impact: long-	Overall impact: long-
	increments to a long-	term, negligible,	term, negligible,	term, negligible,
	term, negligible,	adverse.	adverse.	adverse.
	adverse cumulative			
	impact.	Alternative contributes	Alternative contributes	Alternative contributes
		imperceptible, adverse	imperceptible, adverse	imperceptible, adverse
		increments to a long-	increments to a long-	increments to a long-
		term, negligible,	term, negligible,	term, negligible,
		adverse cumulative	adverse cumulative	adverse cumulative
		impact.	impact.	impact.

Appendix F: Summ	nary of Environm	ental Consequences			
	Site	Alternative A	Alternative B	Alternative C	Alternative D
		Increased visitation	Approximately 1,000	Approximately 0.5	Approximately 0.5
		could lead to increased	sf of impervious	acre (21,000 sf) of	acre (21,000 sf) of
		pollutant loads being	surface would be	impervious surface	impervious surface
		absorbed by	installed.	would be installed.	would be installed.
		stormwater.			
			Overall impact: long-	Overall impact: long-	Overall impact: long-
		Overall impact: long-	term, negligible, and	term, negligible, and	term, negligible, and
Water	Floyd	term, negligible, and	adverse.	adverse.	adverse.
Resources	Bennett Field	adverse.			
			Alternative contributes	Alternative contributes	Alternative contributes
		Alternative contributes	imperceptible, adverse	imperceptible, adverse	imperceptible, adverse
		imperceptible, adverse	increments to a long-	increments to a long-	increments to a long-
		increments to a long-	term, negligible to	term, negligible to	term, negligible to
		term, negligible to	minor, adverse	minor, adverse	minor, adverse
		minor, adverse	cumulative impact.	cumulative impact.	cumulative impact.
		cumulative impact.			

Appendix F: Summary of Environm	ontal Consequences			
Site	Alternative A	Alternative B	Alternative C	Alternative D
	Current pollutant loads	There would be a net	There would be a net	There would be a net
	would be captured by	gain of 1.1 acres	gain of 0.4 acres	gain of 0.2 acres
	existing storm water	(49,000 sf) of green	(18,000 sf) of green	(11,000 sf) of green
	drainages, or escape	space. The change in	space. The change in	space. The change in
	into the surrounding	impervious surface	impervious surface	impervious surface
	water bodies.	should not alter runoff	should not alter runoff	should not alter runoff
	Continued off road	patterns, however any	patterns, however any	patterns, however any
	driving in the Beach	additional runoff	additional runoff	additional runoff
	Channel Drive median	would be captured by	would be captured by	would be captured by
	would increase erosion	the remaining median	the remaining median	the remaining median
	rates, adding	and/or existing	and/or existing	and/or existing
	sediments to	drainage structures	drainage structures	drainage structures
Jacob Riis	stormwater runoff.	along Beach Channel	along Beach Channel	along Beach Channel
Park		Drive.	Drive.	Drive.
	Overall impact: long-			
	term, negligible,	Overall impact: long-	Overall impact: long-	Overall impact: long-
	adverse.	term, minor,	term, negligible,	term, negligible,
		beneficial.	beneficial.	beneficial.
	Alternative contributes			
	imperceptible, adverse	Alternative contributes	Alternative contributes	Alternative contributes
	increments to a long-	imperceptible,	imperceptible,	imperceptible,
	term, negligible to	beneficial increments	beneficial increments	beneficial increments
	minor, adverse	to a long-term,	to a long-term,	to a long-term,
	cumulative impact.	negligible to minor, adverse cumulative	negligible to minor, adverse cumulative	negligible to minor, adverse cumulative
		impact.	impact.	impact.

Appendix F: Summary of Environment	ental Consequences			
Site	Alternative A	Alternative B	Alternative C	Alternative D
	The overuse of overflow parking areas could lead to temporary increases in erosion, which could	Approximately 3.7 acres (165,000 sf) of green space would be replaced by impervious surface.	Impacts would be similar to those described under Alternative A.	Impacts would be similar to those described under Alternative A.
	lead to increased sediment loads in stormwater runoff.	This change should not alter stormwater runoff patterns.	Overall impact: long-term, negligible, adverse.	Overall impact: long-term, negligible, adverse.
Riis Landing	Overall impact: long-term, negligible, adverse.	Overall impact: long-term, minor, adverse. Alternative contributes	Alternative contributes imperceptible, adverse increments to a long-term, negligible to	Alternative contributes imperceptible, adverse increments to a long-term, negligible to
	Alternative contributes imperceptible, adverse increments to a long-term, negligible to minor, adverse cumulative impact.	imperceptible, adverse increments to a long- term, negligible to minor, adverse cumulative impact.	minor, adverse cumulative impact.	minor, adverse cumulative impact.

Appendix F: Sum	mary of Environm	ental Consequences			
	Site	Alternative A	Alternative B	Alternative C	Alternative D
		The barren	The increase in	The increase in	The increase in
		administrative areas	impervious surface	impervious surface	impervious surface
		would continue to be	would be accompanied	would be accompanied	would be accompanied
		exposed to stormwater	by BMPs capable of	by BMPs capable of	by BMPs capable of
		and erosion. These	fully absorbing the	fully absorbing the	fully absorbing the
		pollutants would be	increased stormwater	increased stormwater	increased stormwater
		washed into the surrounding bodies of	pollutants.	pollutants.	pollutants.
	New NPS	water.	Overall impact: long- term, moderate,	Overall impact: long- term, moderate,	Overall impact: long- term, moderate,
	Sites	Overall impact: long-	beneficial.	beneficial.	beneficial.
		term, minor, adverse.			
			Alternative contributes	Alternative contributes	Alternative contributes
		Alternative contributes	imperceptible,	imperceptible,	imperceptible,
		imperceptible, adverse increments to a long-	beneficial increments to a long-term,	beneficial increments to a long-term,	beneficial increments to a long-term,
		term, negligible to	negligible to minor,	negligible to minor,	negligible to minor,
		minor, adverse	adverse cumulative	adverse cumulative	adverse cumulative
		cumulative impact.	impact.	impact.	impact.
		All of the proposed	All of the proposed	All of the proposed	All of the proposed
		actions fall outside of	actions fall outside of	actions fall outside of	actions fall outside of
		the floodplain.	the floodplain.	the floodplain.	the floodplain.
		Overall impact: no	Overall impact: no	Overall impact: no	Overall impact: no
Floodplains	Floyd Bennett Field	impact.	impact.	impact.	impact.
	Defined Field	Alternative does not	Alternative does not	Alternative does not	Alternative does not
		contribute to a long-	contribute to a long-	contribute to a long-	contribute to a long-
		term, negligible to	term, negligible to	term, negligible to	term, negligible to
		minor, adverse	minor, adverse	minor, adverse	minor, adverse
		cumulative impact.	cumulative impact.	cumulative impact.	cumulative impact.

Appendix F: Summary of Environmental Consequences						
Site	Alternative A	Alternative B	Alternative C	Alternative D		
	The high level of	Approximately 1.2	Approximately 0.4	Approximately 0.2		
	impervious surface	acres (55,000 sf) of	acres (18,000 sf) of	acres (11,000 sf) of		
	that currently exists at	green space would be	green space would be	green space would be		
	the site would allow	added to the study	added to the study	added to the study		
	flood velocities to	area. Though not	area. Though not	area. Though not		
	increase as it traveled	readily noticeable, this	readily noticeable, this	readily noticeable, this		
	across the site.	gain in green space would allow the	gain in green space would allow the	gain in green space would allow the		
	Overall impact: long-	floodplain to reduce	floodplain to reduce	floodplain to reduce		
	term, negligible,	floodwater velocities.	floodwater velocities.	floodwater velocities.		
Jacob Riis	adverse					
Park		Overall impact: long-	Overall impact: long-	Overall impact: long-		
	Alternative contributes	term, negligible,	term, negligible,	term, negligible,		
	imperceptible, adverse increments to a long-	beneficial	beneficial	beneficial		
	term, negligible to	Alternative contributes	Alternative contributes	Alternative contributes		
	minor, adverse	imperceptible, adverse	imperceptible,	imperceptible, adverse		
	cumulative impact.	increments to a long-	beneficial increments	increments to a long-		
		term, negligible to	to a long-term,	term, negligible to		
		minor, adverse	negligible to minor,	minor, adverse		
		cumulative impact.	adverse cumulative impact.	cumulative impact.		

ppendix F: Summary of Environi		Altomotive D	Altamatica C	Altamatics
Site	Alternative A	Alternative B	Alternative C	Alternative D
	There would be no	An estimated 3.7 acres	The introduction of	The introduction of
	new development	(165,000 sf) of	the sidewalk and	pedestrian
	within the floodplain.	impervious space would be installed.	pedestrian improvements would	improvements would not alter floodplain
	Overall impact: no impact.	This could increase floodwater velocities	not alter floodplain values.	values.
	1	within the immediate		Overall impact: no
	Alternative does not contribute to a long-	vicinity of the site.	Overall impact: no impact.	impact.
Riis Landing	term, negligible to	Overall impact: long-	-	Alternative does not
	minor, adverse cumulative impact.	term, negligible, adverse.	Alternative does not contribute to a long-term, negligible to	contribute to a long- term, negligible to minor, adverse
		Alternative contributes imperceptible, adverse	minor, adverse cumulative impact.	cumulative impact.
		increments to a long- term, negligible to minor, adverse cumulative impact.		

Appendix F: Summary of Environm Site	nental Consequences Alternative A	Alternative B	Alternative C	Alternative D
Site				
	The administrative	The development of	The development of	The development of
	area would remain	the administrative area	the administrative area	the administrative area
	undeveloped. The	would solidify its	would solidify its	would solidify its
	highly compacted soils	already impervious	already impervious	already impervious
	would be nearly	nature, allowing	nature, allowing	nature, allowing
	impervious, allowing	floodwater velocity to	floodwater velocity to	floodwater velocity to
	flood waters to	increase.	increase.	increase.
	increase in velocity as			
	they passed over the	Overall impact: long-	Overall impact: long-	Overall impact: long-
New NPS	confined area.	term, negligible,	term, negligible,	term, negligible,
Sites		adverse.	adverse.	adverse.
	Overall impact: long-			
	term, negligible,	Alternative contributes	Alternative contributes	Alternative contributes
	adverse.	imperceptible, adverse	imperceptible, adverse	imperceptible, adverse
		increments to a long-	increments to a long-	increments to a long-
	Alternative contributes	term, negligible to	term, negligible to	term, negligible to
	imperceptible, adverse	minor, adverse	minor, adverse	minor, adverse
	increments to a long-	cumulative impact.	cumulative impact.	cumulative impact.
	term, negligible to			
	minor, adverse			
	cumulative impact.			

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Appendix F: Sum	Site	ental Consequences Alternative A	Alternative B	Alternative C	Alternative D
		Air quality would be	Air quality would be	Air quality would be	Air quality would be
		influenced by the	influenced by the	influenced by the	influenced by the
		growing regional	growing regional	growing regional	growing regional
		population. Air quality	population and	population and	population and
		would continue to	changes in internal	changes in internal	changes in internal
	improve due to EPA regulations.	circulation. Air quality would continue to improve due to EPA	circulation. Air quality would continue to improve due to EPA	circulation. Air quality would continue to improve due to EPA	
		Overall impact: long-	regulations.	regulations.	regulations.
A : O 1:4	Floyd	term, negligible, and			
Air Quality	Bennett Field	beneficial.	Overall impact: long- term, negligible to	Overall impact: long- term, negligible to	Overall impact: long- term, negligible to
		Alternative contributes imperceptible,	minor, and beneficial.	minor, and beneficial.	minor, and beneficial.
		beneficial increments to a long-term, minor,	Alternative contributes imperceptible,	Alternative contributes imperceptible,	Alternative contributes imperceptible,
		beneficial cumulative impact.	beneficial increments to a long-term, minor, beneficial cumulative impact.	beneficial increments to a long-term, minor, beneficial cumulative impact.	beneficial increments to a long-term, minor, beneficial cumulative impact.

Appendix F: Summary of Environme	ental Consequences			
Site	Alternative A	Alternative B	Alternative C	Alternative D
	Air quality would be	Air quality would be	Air quality would be	Air quality would be
	influenced by the growing regional population. Air quality would continue to improve due to EPA regulations.	influenced by the growing regional population and changes in internal circulation. Air quality would continue to improve due to EPA	influenced by the growing regional population and changes in internal circulation. Air quality would continue to improve due to EPA	influenced by the growing regional population and changes in internal circulation. Air quality would continue to improve due to EPA
Jacob Riis	Overall impact: long- term, negligible, and	regulations.	regulations.	regulations.
Park	beneficial.	Overall impact: long- term, minor, and	Overall impact: long- term, minor, and	Overall impact: long- term, negligible to
	Alternative contributes imperceptible,	beneficial.	beneficial.	minor, and beneficial.
	beneficial increments to a long-term, minor,	Alternative contributes imperceptible,	Alternative contributes imperceptible,	Alternative contributes imperceptible,
	beneficial cumulative impact.	beneficial increments to a long-term, minor, beneficial cumulative impact.	beneficial increments to a long-term, minor, beneficial cumulative impact.	beneficial increments to a long-term, minor, beneficial cumulative impact.

Appendix F: Summary of Environm	ental Consequences			
Site	Alternative A	Alternative B	Alternative C	Alternative D
	Air quality would be	Air quality would be	Air quality would be	Air quality would be
	influenced by the growing regional population. Air quality would continue to improve due to EPA	influenced by the growing regional population and changes in internal circulation. Air quality	influenced by the growing regional population and changes in internal circulation. Air quality	influenced by the growing regional population and changes in internal circulation. Air quality
	regulations.	would continue to improve due to EPA	would continue to improve due to EPA	would continue to improve due to EPA
Diis Londina	Overall impact: long- term, negligible, and	regulations.	regulations.	regulations.
Riis Landing	beneficial.	Overall impact: long- term, minor, and	Overall impact: long- term, minor, and	Overall impact: long- term, minor, and
	Alternative contributes imperceptible,	beneficial.	beneficial.	beneficial.
	beneficial increments to a long-term, minor,	Alternative contributes imperceptible,	Alternative contributes imperceptible,	Alternative contributes imperceptible,
	beneficial cumulative	beneficial increments	beneficial increments	beneficial increments
	impact.	to a long-term, minor,	to a long-term, minor,	to a long-term, minor,
		beneficial cumulative	beneficial cumulative	beneficial cumulative
		impact.	impact.	impact.

Appendix F: Summary of Environme	ental Consequences			
Site	Alternative A	Alternative B	Alternative C	Alternative D
	Air quality would be	Air quality would be	Air quality would be	Air quality would be
	influenced by the growing regional population. Air quality would continue to improve due to EPA regulations.	influenced by the growing regional population and changes in internal circulation. Air quality would continue to improve due to EPA	influenced by the growing regional population and changes in internal circulation. Air quality would continue to improve due to EPA	influenced by the growing regional population and changes in internal circulation. Air quality would continue to improve due to EPA
New NPS	Overall impact: long- term, negligible, and	regulations.	regulations.	regulations.
Sites	beneficial.	Overall impact: long-term, negligible, and	Overall impact: long- term, negligible, and	Overall impact: long- term, negligible, and
	Alternative contributes imperceptible,	beneficial.	beneficial.	beneficial.
	beneficial increments to a long-term, minor, beneficial cumulative impact.	Alternative contributes imperceptible, beneficial increments to a long-term, minor, beneficial cumulative impact.	Alternative contributes imperceptible, beneficial increments to a long-term, minor, beneficial cumulative impact.	Alternative contributes imperceptible, beneficial increments to a long-term, minor, beneficial cumulative impact.

Appendix F: S	Summary of Environme Site	ental Consequences Alternative A	Alternative B	Alternative C	Alternative D
		Sound levels and	Sound levels and	Sound levels and	Sound levels and
Noise Floyd Bennett Field	distance to impact would both increase due to increased vehicular traffic.	distance to impact would both increase to due to increased vehicular traffic and	distance to impact would both increase to due to increased vehicular traffic and	distance to impact would both increase to due to increased vehicular traffic and	
	Overall impact: long-term, minor, adverse.	changes in circulation patterns.	changes in circulation patterns.	changes in circulation patterns.	
	Alternative contributes imperceptible, adverse	Overall impact: long-term, minor, adverse.	Overall impact: long-term, minor, adverse.	Overall impact: long-term, minor, adverse.	
	increments to a long- term, negligible, adverse cumulative	Alternative contributes imperceptible, adverse increments to a long-	Alternative contributes imperceptible, adverse increments to a long-	Alternative contributes imperceptible, adverse increments to a long-	
		impact.	term, negligible, adverse cumulative impact.	term, negligible, adverse cumulative impact.	term, negligible, adverse cumulative impact.

Appendix F: Summary of Environm	nental Consequences			
Site	Alternative A	Alternative B	Alternative C	Alternative D
	Sound levels and	Sound levels and	Sound levels and	Sound levels and
	distance to impact	distance to impact	distance to impact	distance to impact
	would both increase	would both increase to	would both increase to	would both increase to
	due to increased	due to increased	due to increased	due to increased
	vehicular traffic.	vehicular traffic and	vehicular traffic and	vehicular traffic and
		changes in circulation	changes in circulation	changes in circulation
	Overall impact: long-	patterns.	patterns.	patterns.
Jacob Riis	term, minor, adverse.			
Park		Overall impact: long-	Overall impact: long-	Overall impact: long-
Tun	Alternative contributes	term, minor, adverse.	term, minor, adverse.	term, minor, adverse.
	imperceptible, adverse			
	increments to a long-	Alternative contributes	Alternative contributes	Alternative contributes
	term, negligible,	imperceptible, adverse	imperceptible, adverse	imperceptible, adverse
	adverse cumulative	increments to a long-	increments to a long-	increments to a long-
	impact.	term, negligible,	term, negligible,	term, negligible,
		adverse cumulative	adverse cumulative	adverse cumulative
		impact.	impact.	impact.

Appendix F: Summary of Environm	ental Consequences			
Site	Alternative A	Alternative B	Alternative C	Alternative D
	Sound levels and	Sound levels and	Sound levels and	Sound levels and
	distance to impact would both increase due to increased vehicular traffic.	distance to impact would both increase to due to increased vehicular traffic and changes in circulation	distance to impact would both increase to due to increased vehicular traffic and changes in circulation	distance to impact would both increase to due to increased vehicular traffic and changes in circulation
	Overall impact: long-term, minor, adverse.	patterns.	patterns.	patterns.
Riis Landing		Overall impact: long-	Overall impact: long-	Overall impact: long-
	Alternative contributes imperceptible, adverse	term, minor, adverse.	term, minor, adverse.	term, minor, adverse.
	increments to a long- term, negligible, adverse cumulative	Alternative contributes imperceptible, adverse increments to a long-	Alternative contributes imperceptible, adverse increments to a long-	Alternative contributes imperceptible, adverse increments to a long-
	impact.	term, negligible, adverse cumulative	term, negligible, adverse cumulative	term, negligible, adverse cumulative
		impact.	impact.	impact.

Appendix F: Summary of Environr	mental Consequences			
Site	Alternative A	Alternative B	Alternative C	Alternative D
	Sound levels and	Sound levels and	Sound levels and	Sound levels and
	distance to impact would both increase	distance to impact would both increase to	distance to impact would both increase to	distance to impact would both increase to
	due to increased vehicular traffic.	due to increased vehicular traffic and changes in circulation	due to increased vehicular traffic and changes in circulation	due to increased vehicular traffic and changes in circulation
New NPS	Overall impact: long-term, minor, adverse.	patterns.	patterns.	patterns.
Sites	Alternative contributes imperceptible, adverse	Overall impact: long-term, minor, adverse.	Overall impact: long-term, minor, adverse.	Overall impact: long-term, minor, adverse.
	increments to a long- term, negligible, adverse cumulative impact.	Alternative contributes imperceptible, adverse increments to a long-term, negligible, adverse cumulative impact.	Alternative contributes imperceptible, adverse increments to a long-term, negligible, adverse cumulative impact.	Alternative contributes imperceptible, adverse increments to a long-term, negligible, adverse cumulative impact.

Appendix F: Sumr	nary of Environm	ental Consequences			
	Site	Alternative A	Alternative B	Alternative C	Alternative D
		Any ground-disturbing	Any ground-disturbing	Any ground-disturbing	Any ground-disturbing
		activity proposed by	activity proposed by	activity proposed by	activity proposed by
		this study would be	this study would be	this study would be	this study would be
		isolated along	isolated along	isolated along	isolated along
		Flatbush Avenue, away from the area	Flatbush Avenue, away from the area	Flatbush Avenue, away from the area	Flatbush Avenue, away from the area
		where resources may	where resources may	where resources may	where resources may
		exist.	exist.	exist.	exist.
			· · · · · · · · · · · · · · · · · · ·		
		Overall impact: no	Overall impact: no	Overall impact: no	Overall impact: no
Archeological	Floyd	impact.	impact.	impact.	impact.
Resources	Bennett Field				
		Alternative does not	Alternative does not	Alternative does not	Alternative does not
		contribute cumulative	contribute cumulative	contribute cumulative	contribute cumulative
		impacts.	impacts.	impacts.	impacts.
			For the purposes of	For the purposes of	For the purposes of
			Section 106, the	Section 106, the	Section 106, the
			proposed action would	proposed action would	proposed action would
			have a no effect on	have a no effect on	have a no effect on
			archeological	archeological	archeological
			resources.	resources.	resources.

Appendix F: Summary of Envir	ronmental Consequences			
Site	Alternative A	Alternative B	Alternative C	Alternative D
	The proposed	The proposed	The proposed	The proposed
	alternatives would	alternatives would	alternatives would	alternatives would
	occur on previously	occur on previously	occur on previously	occur on previously
	disturbed soil,	disturbed soil,	disturbed soil,	disturbed soil,
	therefore known	therefore known	therefore known	therefore known
	archeological	archeological	archeological	archeological
	resources are not	resources are not	resources are not	resources are not
	expected to be	expected to be	expected to be	expected to be
	impacted.	impacted.	impacted.	impacted.
Jacob Riis	Overall impact: no	Overall impact: no	Overall impact: no	Overall impact: no
Park	impact	impact	impact	impact
	Alternative does not	Alternative does not	Alternative does not	Alternative does not
	contribute cumulative	contribute cumulative	contribute cumulative	contribute cumulative
	impacts.	impacts.	impacts.	impacts.
		For the purposes of	For the purposes of	For the purposes of
		Section 106, the	Section 106, the	Section 106, the
		proposed action would	proposed action would	proposed action would
		have a no effect on	have a no effect on	have a no effect on
		archeological	archeological	archeological
		resources.	resources.	resources.
		resources.	resources.	resources.

Appendix F: Summary of Environn	nental Consequences			
Site	Alternative A	Alternative B	Alternative C	Alternative D
	Because no recent	Because no recent	Because no recent	Because no recent
	studies have been	studies have been	studies have been	studies have been
	done, ground-	done, ground-	done, ground-	done, ground-
	disturbance would	disturbance would	disturbance would	disturbance would
	have the potential to			
	impact archeological	impact archeological	impact archeological	impact archeological
	resources. Prior to	resources. Prior to	resources. Prior to	resources. Prior to
	construction, the NPS	construction, the NPS	construction, the NPS	construction, the NPS
	would investigate	would investigate	would investigate	would investigate
	areas not previously	areas not previously	areas not previously	areas not previously
	surveyed.	surveyed.	surveyed.	surveyed.
D., T. 1.		A1,	A1,	A1,
Riis Landing		Alternative does not	Alternative does not	Alternative does not
		contribute cumulative	contribute cumulative	contribute cumulative
		impacts.	impacts.	impacts.
		For the purposes of	For the purposes of	For the purposes of
		Section 106, the	Section 106, the	Section 106, the
		proposed action would	proposed action would	proposed action would
		have a no	have a no	have a no
		determination of	determination of	determination of
		effect can be made on	effect can be made on	effect can be made on
		archeological	archeological	archeological
		resources.	resources.	resources.

Appendix F: Summary of Environn				
Site	Alternative A	Alternative B	Alternative C	Alternative D
	Based on the sites			
	historic uses as	historic uses as	historic uses as	historic uses as
	landfills, and the	landfills, and the	landfills, and the	landfills, and the
	recent capping and	recent capping and	recent capping and	recent capping and
	landscaping activities,	landscaping activities,	landscaping activities,	landscaping activities,
	it can be assumed that			
	there are no cultural			
New NPS	resources present.	resources present.	resources present.	resources present.
Sites				
	Overall impact: no	Overall impact: no	Overall impact: no	Overall impact: no
	impact	impact	impact	impact
	Alternative does not	Alternative does not	Alternative does not	Alternative does not
	contribute cumulative	contribute cumulative	contribute cumulative	contribute cumulative
	impacts.	impacts.	impacts.	impacts.

Appendix F: Sum	mary of Environme	ental Consequences			
	Site	Alternative A	Alternative B	Alternative C	Alternative D
		The runways would	Runway closures	Ample runway	Ample runway
		continue to receive	would allow the	closures would allow	closures would allow
		wear and tear due to	resources to be further	the resources to be	the resources to be
		vehicle use and	protected and	further protected and	further protected and
		misinterpretation.	accurately interpreted.	accurately interpreted.	accurately interpreted.
		Overall impact: long-term, minor, adverse.	Overall impact: long- term, negligible, beneficial.	Overall impact: long- term, negligible, beneficial.	Overall impact: long- term, negligible, beneficial.
		Alternative contributes			
Historic Structures	Floyd Bennett Field	imperceptible, adverse increments to a long-term, minor, beneficial cumulative impact.	Alternative contributes imperceptible, beneficial increments to a long-term, minor, beneficial cumulative impact.	Alternative contributes imperceptible, beneficial increments to a long-term, minor, beneficial cumulative impact.	Alternative contributes imperceptible, beneficial increments to a long-term, minor, beneficial cumulative impact.
			Alternative B would have a <i>no adverse effect</i> on historic structures at Floyd Bennett Field.	Alternative C would have a <i>no adverse effect</i> on historic structures at Floyd Bennett Field.	Alternative D would have a <i>no adverse effect</i> on historic structures at Floyd Bennett Field.

Appendix F: Summary	of Environme	ntal Consequences			
	Site	Alternative A	Alternative B	Alternative C	Alternative D
		All of the alternatives	All of the alternatives	All of the alternatives	All of the alternatives
		presented in this	presented in this	presented in this	presented in this
		document encompass	document encompass	document encompass	document encompass
		construction in	construction in	construction in	construction in
		conjunction with	conjunction with	conjunction with	conjunction with
		traffic patterns. The	traffic patterns. The	traffic patterns. The	traffic patterns. The
		roads surrounding the	roads surrounding the	roads surrounding the	roads surrounding the
		park are not	park are not	park are not	park are not
		considered historic	considered historic	considered historic	considered historic
		structures.	structures.	structures.	structures.
Jac	ob Riis	Overall impact: no	Overall impact: no	Overall impact: no	Overall impact: no
Par	rk	impact	impact	impact	impact
		Alternative does not to	Alternative does not to	Alternative does not to	Alternative does not to
		a long-term, minor,	a long-term, minor,	a long-term, minor,	a long-term, minor,
		beneficial cumulative	beneficial cumulative	beneficial cumulative	beneficial cumulative
		impact.	impact.	impact.	impact.
			For the purposes of	For the purposes of	For the purposes of
			Section 106, the	Section 106, the	Section 106, the
			proposed action would	proposed action would	proposed action would
			have a no effect on	have a no effect on	have a no effect on
			historic structures.	historic structures	historic structures

Appendix F: Summary of Environm	ental Consequences			
Site	Alternative A	Alternative B	Alternative C	Alternative D
	The proposed changes would not alter the site's historical structures.	The proposed changes would not alter the site's historical structures.	The proposed changes would not alter the site's historical structures.	The proposed changes would not alter the site's historical structures.
	Overall impact: no impact	Overall impact: no impact	Overall impact: no impact	Overall impact: no impact
Riis Landing	Alternative does not to a long-term, minor, beneficial cumulative impact.	Alternative does not to a long-term, minor, beneficial cumulative impact.	Alternative does not to a long-term, minor, beneficial cumulative impact.	Alternative does not to a long-term, minor, beneficial cumulative impact.
		For the purposes of Section 106, the proposed action would have a no effect on historic structures.	For the purposes of Section 106, the proposed action would have a no effect on historic structures	For the purposes of Section 106, the proposed action would have a no effect on historic structures

Appendix F: Summary of Env	vironmental Consequences			
Site	e Alternative A	Alternative B	Alternative C	Alternative D
	Based on the sites			
	historic uses as	historic uses as	historic uses as	historic uses as
	landfills, and the	landfills, and the	landfills, and the	landfills, and the
	recent capping and	recent capping and	recent capping and	recent capping and
	landscaping activities,	landscaping activities,	landscaping activities,	landscaping activities,
	it can be assumed that			
	there are no cultural			
New NF	resources present.	resources present.	resources present.	resources present.
Sites	Overall impact: no impact			
	Alternative does not to a long-term, minor,			
	beneficial cumulative impact.	beneficial cumulative impact.	beneficial cumulative impact.	beneficial cumulative impact.

Appendix F: Sum	mary of Environm	ental Consequences			
	Site	Alternative A	Alternative B	Alternative C	Alternative D
		The use of runways	Runway closures	Ample runway	Runway closures
		and taxiways for	would allow for a	closures would allow	would allow for a
		internal access and	better understanding	for a better	better understanding
		circulation would	and interpretation of	understanding and	and interpretation of
		create confusion and a	historic airport. The	interpretation of	historic airport. The
		lack of interpretation.	new entrance would	historic airport. The	multiple entrances
			not be consistent with	new entrance would	would not be
		Overall impact: long-	the historic use.	not be consistent with	consistent with the
		term, moderate,		the historic use.	historic use.
		adverse.	Overall impact: long-		
			term, minor adverse.	Overall impact: long-	Overall impact: long-
Cultural	Floyd	No cumulative		term, minor adverse.	term, moderate
Landscapes	Bennett Field	impacts to cultural	No cumulative		adverse.
		landscapes have been	impacts to cultural	No cumulative	
		identified.	landscapes have been	impacts to cultural	No cumulative
			identified.	landscapes have been	impacts to cultural
				identified.	landscapes have been
			Alternative B would		identified.
			have a <i>no adverse</i>	Alternative C would	
			effect on cultural	have a <i>no adverse</i>	Alternative D would
			landscapes at Floyd	effect on cultural	have an <i>adverse effect</i>
			Bennett Field.	landscapes at Floyd	on cultural landscapes
				Bennett Field.	at Floyd Bennett Field.

Appendix F: Summary of Environ		Alternative D	Altornativo C	Alternative D
Site	Alternative A	Alternative B	Alternative C	Alternative D
	Existing cultural	Improvements along	Improvements along	Improvements along
	landscapes would be	Beach Channel Drive	Beach Channel Drive	Beach Channel Drive
	preserved in their	would not alter the	would not alter the	would not alter the
	current configuration.	overall layout of the	overall layout of the	overall layout of the
	The overall plan,	park. However,	park. However, the	park. However, the
	circulation patterns,	changes within the	loss of the Beach	loss of the Beach
	and relationship of	parking lot would	Channel Drive ramps	Channel Drive ramps
	buildings to the	detract from historic	would alter the	would alter the
	landscape would	views, uses, and	existing vehicle	existing vehicle
	remain intact.	circulation patterns.	circulation path	circulation path
	0 11 1	0 111	leading into the Park.	leading into the Park.
	Overall impact: no	Overall impact: long-	It would also redefine	It would also redefine
	impact	term, minor, adverse	the linkage of Jacob	the linkage of Jacob
Lead Dila	NI.	NI	Riis Park to the	Riis Park to the
Jacob Riis Park	No cumulative impacts to cultural	No cumulative impacts to cultural	parkway system.	parkway system.
	landscapes have been	landscapes have been	Overall impact: long-	Overall impact: long-
	identified.	identified.	term, minor, adverse	term, minor, adverse
		For the purposes of	No cumulative	No cumulative
		Section 106, the	impacts to cultural	impacts to cultural
		proposed action would	landscapes have been	landscapes have been
		have a no adverse effect on cultural	identified.	identified.
		landscapes	For the purposes of	For the purposes of
			Section 106, the	Section 106, the
			proposed action would	proposed action would
			have a no adverse	
			effect on cultural	
			landscapes	

Appendix F: Summary of Environme				
Site	Alternative A Existing cultural landscapes would be preserved in their current configuration. The three landscape character areas that	Alternative B The alternative would enhance the connection between the Fortification area and the wharf area, a change in the historic	Alternative C The new sidewalk would conform to historic design patterns throughout the area. The historic gate would also be	Alternative D There would be no physical development. Improvements at the historic gate would still be made.
	reflect the historic use and development of the landscape, as well	landscape. The enhanced traffic signals would also	opened to improve the landscape.	Overall impact: long-term, minor, beneficial
	as current park operations, would be maintained.	result in a change from historic conditions. Opening the historic gate would improve	Overall impact: long- term, minor, beneficial No cumulative	No cumulative impacts to cultural landscapes have been identified.
Riis Landing	Overall impact: no impact	the historic landscape of the site.	impacts to cultural landscapes have been identified.	For the purposes of Section 106, the
	No cumulative impacts to cultural landscapes have been identified.	Overall impact: long-term, negligible, adverse.	For the purposes of Section 106, the proposed action would	proposed action would have a no adverse effect on cultural landscapes
		No cumulative impacts to cultural landscapes have been identified.	have a no adverse effect on cultural landscapes	
		For the purposes of Section 106, the proposed action would have a no adverse effect on cultural landscapes		

Appendix F: Summary of Environn	nental Consequences			
Site	Alternative A	Alternative B	Alternative C	Alternative D
	Based on the sites			
	historic uses as	historic uses as	historic uses as	historic uses as
	landfills, and the	landfills, and the	landfills, and the	landfills, and the
	recent capping and	recent capping and	recent capping and	recent capping and
	landscaping activities,	landscaping activities,	landscaping activities,	landscaping activities,
	it can be assumed that			
	there are no cultural			
New NPS	resources present.	resources present.	resources present.	resources present.
Sites				
	Overall impact: no	Overall impact: no	Overall impact: no	Overall impact: no
	impact.	impact.	impact.	impact.
	No cumulative	No cumulative	No cumulative	No cumulative
	impacts to cultural	impacts to cultural	impacts to cultural	impacts to cultural
	landscapes have been	landscapes have been	landscapes have been	landscapes have been
	identified.	identified.	identified.	identified.

Appendix F: Sun	nmary of Environmo	ental Consequences			
	Site	Alternative A	Alternative B	Alternative C	Alternative D
		No changes would be	The new entrance	The new entrance	The multiple entrances
		made to existing	would provide much	would provide much	would provide much
		resources. Lack of site	needed site	needed site	needed site
		identity would create confusion and detract	recognition, reducing confusion. Runway	recognition, reducing confusion. This	recognition, reducing confusion. This
		from historic and	closures would	entrance, along with	entrance, along with
		natural views of the Field.	improve historic and natural views within	ample runway closures would improve	ample runway closures would improve
			the Field.	historic and natural	historic and natural
		Overall impact: long-		views within the Field.	views within the Field.
Visual	Floyd	term, moderate,	Overall impact: long-		
Resources	Bennett Field	adverse.	term, moderate,	Overall impact: long-	Overall impact: long-
			beneficial.	term, moderate,	term, moderate,
		Alternative contributes		beneficial.	beneficial.
		imperceptible, adverse	Alternative contributes		
		increments to a long-	noticeable to	Alternative contributes	Alternative contributes
		term, moderate,	appreciable, beneficial	noticeable to	noticeable to
		beneficial cumulative impact.	increments to a long- term, moderate,	appreciable, beneficial increments to a long-	appreciable, beneficial increments to a long-
		ппраст.	beneficial cumulative	term, moderate,	term, moderate,
			impact.	beneficial cumulative	beneficial cumulative
			ппраст.	impact.	impact.
					T

Appendix F: Summary of Environm Site	Alternative A	Alternative B	Alternative C	Alternative D
Site	No changes would be	Changes would come	The installation of the	The installation of the
	made to the current	in the form of a new	new intersection	new bridges would
	visual resources at the	traffic signal, a turning	would provide	provide immediate
	site. While this would	lane, temporary	immediate visual	visual recognition of
	preserve many	infrastructure within	recognition of the site	the site for visitors
	significant sights, it	the parking lot, and	for visitors coming	coming from the east.
	would also provide	new traffic patterns.	from the east. The	The bridge and new
	little site recognition	Views from within the	intersection and new	access routes would
	for westbound traffic.	parking lot would be	access routes would	change views offered
		altered by new	change views offered	on the approach to the
	Overall impact long-	circulation patterns.	on the approach to the	site, as well as within
Jacob Riis	term, minor, adverse.		site, as well as within	the park.
Park		Overall impact: long-	the park.	
2 0222	Alternative contributes	term, minor to		Overall impact: long-
	imperceptible, adverse	moderate, adverse.	Overall impact: long-	term, minor to
	increments to a long-	A 14 a.m. a 4 i a a m 4 m i la 4 a a	term, minor to	moderate, adverse.
	term, moderate, beneficial cumulative	Alternative contributes	moderate, adverse.	Alternative contributes
	impact.	imperceptible to noticeable, adverse	Alternative contributes	imperceptible to
	трасс.	increments to a long-	imperceptible to	noticeable, beneficial
		term, moderate,	noticeable, adverse	increments to a long-
		beneficial cumulative	increments to a long-	term, moderate,
		impact.	term, moderate,	beneficial cumulative
		_	beneficial cumulative	impact.
			impact.	

Appendix F: Summary of Environme	ental Consequences			
Site	Alternative A	Alternative B	Alternative C	Alternative D
	No changes would be	The new parking lot	The historic gated	Vehicular congestion
	made to accommodate	would eliminate the	entrance would be	and parking would be
	increased visitation.	vegetative buffer that	opened at the Landing,	removed from the site.
	This would lead to	separates the site from	providing improved	The historic gated
	vehicular congestion	the busy roads.	visual understanding	entrance would be
	and regular use of	Despite this loss, the	of the site. Other	opened at the Landing,
	overflow parking lots.	new parking lot would	impacts would be	providing improved
		maintain the park-like	similar to Alternative	visual understanding
	Overall impact: long-	atmosphere in the	A.	of the site.
Riis Landing	term, moderate,	area.		
	adverse		Overall impact: long-	Overall impact: long-
		Overall impact, long-	term, minor, and	term, minor, beneficial
	Alternative contributes	term, minor, adverse	adverse	A 1
	imperceptible, adverse	A1	A1	Alternative contributes
	increments to a long-	Alternative contributes	Alternative contributes	imperceptible,
	term, moderate, beneficial cumulative	imperceptible, adverse	imperceptible, adverse	beneficial increments
		increments to a long- term, moderate,	increments to a long- term, moderate,	to a long-term, moderate, beneficial
	impact.	beneficial cumulative	beneficial cumulative	cumulative impact.
		impact.	impact.	cumulative impact.
		impact.	impact.	

Appendix F: Summary of Environme	ental Consequences			
Site	Alternative A	Alternative B	Alternative C	Alternative D
	Despite the capping of	Formalized access and	Formalized access and	Despite the larger
	the sites, they would	circulation would	circulation would	paved surface at
	appear detached from	visually connect the	visually connect the	Fountain Avenue,
	the local community.	sites to the	sites to the	impacts would be
	Based on lack of	surrounding	surrounding	similar to those
	access or parking,	community and	community and	described under
	there would be no site	provide immediate site	provide immediate site	Alternative C.
	recognition.	recognition. The new	recognition. The new	
		parking would add to	parking would add to	Overall impact: long-
	Overall impact: long-	the park-like	the park-like	term, moderate,
New NPS	term, moderate,	environment on site.	environment on site.	beneficial.
Sites	adverse.			
		Overall impact: long-	Overall impact: long-	Alternative contributes
	Alternative contributes	term, moderate,	term, moderate,	imperceptible,
	imperceptible, adverse	beneficial.	beneficial.	beneficial increments
	increments to a long-			to a long-term,
	term, moderate,	Alternative contributes	Alternative contributes	moderate, beneficial
	beneficial cumulative	imperceptible,	imperceptible,	cumulative impact.
	impact.	beneficial increments	beneficial increments	
		to a long-term,	to a long-term,	
		moderate, beneficial	moderate, beneficial	
		cumulative impact.	cumulative impact.	

Appendix F: Summ	nary of Environm	ental Consequences			
	Site	Alternative A	Alternative B	Alternative C	Alternative D
Transportation,	Floyd	Existing access and circulation routes would be maintained as vehicular traffic increased. LOS at the Floyd Bennett Drive intersection could be reduced to LOS E. Overall impact: long-	Access to the Field would be improved, as would internal circulation routes. Floyd Bennett Drive would maintain its LOS A and internal intersections would be improved to LOS A.	Access to the Field would be greatly improved, as would internal circulation routes. Floyd Bennett Drive would maintain its LOS A and internal intersections would be improved to LOS A.	Access to the Field would be greatly improved, as would internal circulation routes. Floyd Bennett Drive would maintain its LOS A and internal intersections would be improved to LOS A.
Site Access, and Circulation	Bennett Field	term, moderate, adverse. Alternative contributes	Overall impact: long- term, moderate, beneficial.	Overall impact: long- term, moderate, beneficial.	Overall impact: long-term, moderate, beneficial.
		noticeable, adverse increments to a long-term, moderate, beneficial cumulative impact.	Alternative contributes noticeable, beneficial increments to a long-term, moderate, beneficial cumulative impact.	Alternative contributes noticeable, beneficial increments to a long-term, moderate, beneficial cumulative impact.	Alternative contributes noticeable, beneficial increments to a long-term, moderate, beneficial cumulative impact.

Appendix F: Summary of Environm	ental Consequences			
Site	Alternative A	Alternative B	Alternative C	Alternative D
	The volume of traffic	A new traffic signal	A new intersection	A new series of
	would increase due to	and turning lane	would be installed	bridges would be
	normal growth in	would be installed,	northeast corner of the	installed northeast of
	activity and general	altering traffic patterns	parking lot, providing	the parking lot. This
	background growth in	for eastbound traffic.	direct access for	would preserve the
	the region. The	Park visitors would	westbound traffic. The	free flow of traffic and
	signalized intersection of Rockaway Beach	now be able to directly enter the parking lot	intersection would operate at LOS B and	existing LOS.
	Boulevard at Beach	from the east. No	there would be no	Overall impact: long-
	116 th Street remaining	changes in LOS would	change to other	term, moderate,
	at LOS B.	occur.	operating conditions in	beneficial.
Jacob Riis			the area.	
Park	Overall impact: long-	Overall impact: long-		Alternative contributes
	term, negligible,	term, moderate,	Overall impact: long-	imperceptible to
	beneficial.	beneficial.	term, moderate,	noticeable, beneficial
	A1	A1,	beneficial.	increments to a long-
	Alternative contributes	Alternative contributes imperceptible to	Alternative contributes	term, moderate, beneficial cumulative
	imperceptible, beneficial increments	noticeable, beneficial	imperceptible to	impact.
	to a long-term,	increments to a long-	noticeable, beneficial	impact.
	moderate, beneficial	term, moderate,	increments to a long-	
	cumulative impact.	beneficial cumulative	term, moderate,	
	_	impact.	beneficial cumulative	
			impact.	

Appendix F: Summary of Environme	Appendix F: Summary of Environmental Consequences						
Site	Alternative A	Alternative B	Alternative C	Alternative D			
	As visitation increased	A new parking lot	Existing Fort Tilden	Existing Jacob Riis			
	in response to new	would be installed to	infrastructure would	Park infrastructure			
	activities at Riis	support future	be used to support Riis	would be used to			
	Landing, the LOS on	developments at Riis	Landing. The use of	support Riis Landing.			
	local roads would	Landing. The use of	these elements would	Local roads would			
	diminish. Parking	this lot would	not change LOS in the	continue to operate at			
	infrastructure would	maintain a LOS B on	area.	LOS B.			
	also be filled to	Fort Tilden roads and					
	capacity on a regular	LOS A on Rockaway	Overall impact: long-	Overall impact: long-			
	basis.	Point Boulevard.	term, moderate,	term, minor,			
Riis Landing			beneficial.	beneficial.			
	Overall impact: long-	Overall impact: long-					
	term, negligible to	term, moderate,	Alternative contributes	Alternative contributes			
	moderate, and adverse.	beneficial.	imperceptible,	imperceptible,			
			beneficial increments	beneficial increments			
	Alternative contributes	Alternative contributes	to a long-term,	to a long-term,			
	imperceptible, adverse	imperceptible,	moderate, beneficial	moderate, beneficial			
	increments to a long-	beneficial increments	cumulative impact.	cumulative impact.			
	term, moderate,	to a long-term,					
	beneficial cumulative	moderate, beneficial					
	impact.	cumulative impact.					

Site	Alternative A	Alternative B	Alternative C	Alternative D
	Increased pedestrian	Pedestrian and bicycle	Pedestrian and bicycle	Despite the larger
	and bicycle traffic to	safety would be	safety would be	parking lot at Fountain
	the sites could create unsafe conditions.	improved. Parking would be fully	improved. Parking would be fully	Avenue, impacts would be similar to
	Also, the lack of parking would lead to	accommodated at both sites. However,	accommodated at both sites. The use of an	Alternative C.
	increased parking in	without modifications	intersection at	Overall impact: long-
	the surrounding neighborhoods.	to existing traffic signals, LOS could	Pennsylvania Avenue would avoid potential	term, minor, beneficial
	Increased traffic and	decrease to D or F.	impacts to existing	Alternative contributes
	queuing on the ramps		traffic patterns.	imperceptible,
New NPS	could result in a	Overall impact: long-		beneficial increments
Sites	decrease in LOS.	term, moderate,	Overall impact: long-	to a long-term,
		adverse	term, minor, beneficial	moderate, beneficial
	Overall impact: long-			cumulative impact.
	term, moderate,	Alternative contributes	Alternative contributes	
	adverse	imperceptible, adverse increments to a long-	imperceptible, beneficial increments	
	Alternative contributes	term, moderate,	to a long-term,	
	imperceptible, adverse	beneficial cumulative	moderate, beneficial	
	increments to a long-	impact.	cumulative impact.	
	term, moderate,			
	beneficial cumulative			
	impact.			

Appendix F: Summ		ental Consequences			
	Site	Alternative A	Alternative B	Alternative C	Alternative D
		Current experiences	The new entrance	The new entrance	The new entrances
		would be maintained.	would provide	would provide much	would provide much
		Lack of site	improved site	improved site	improved site
		recognition and	recognition. Runway	recognition and	recognition and
		misuse of historic	closures would	opportunities. Ample	opportunities. Ample
		runways would create	improve opportunities	runway closures	runway closures
		confusion and lack of	and understanding of	would also improve	would also improve
		understanding. User	the site. Rerouting of	opportunities and	opportunities and
		conflicts would detract	partner and tenant	understanding of the	understanding of the
		from the park-like	users would reduce	site. Rerouting of	site. Rerouting of
		experience.	conflicts with NPS	partner and tenant users would reduce	partner and tenant users would reduce
Visitor Use and	Floyd	Overall impacts long	visitors.	conflicts with NPS	conflicts with NPS
Experience	Bennett Field	Overall impact: long- term, moderate,	Overall impact: long-	visitors.	visitors.
		adverse.	term, minor, beneficial	VISILOIS.	visitors.
		udverse.	term, mmor, cenericiai	Overall impact: long-	Overall impact: long-
		Alternative contributes	Alternative contributes	term, moderate,	term, moderate,
		appreciable, adverse	noticeable, beneficial	beneficial	beneficial
		increments to a long-	increments to a long-		
		term, moderate,	term, moderate,	Alternative contributes	Alternative contributes
		beneficial cumulative	beneficial cumulative	appreciable, beneficial	appreciable, beneficial
		impact.	impact.	increments to a long-	increments to a long-
				term, moderate,	term, moderate,
				beneficial cumulative	beneficial cumulative
				impact.	impact.

Appendix F: Summary of Environm	ental Consequences			
Site	Alternative A	Alternative B	Alternative C	Alternative D
	Site recognition and	The new turn would	The new intersection	The new intersection
	access would remain	provide direct site	would provide direct	would provide direct
	problematic for	recognition and access	site recognition and	site recognition and
	westbound traffic.	for westbound traffic.	access. It would also	access. It would also
		The alternative would	preserve visitor choice	preserve visitor choice
	Overall impact: long-	limit visitor choice, by	within the site. This	within the site. It
	term, minor, adverse.	bringing them directly	alternative would,	would also preserve
		to the parking lot.	however, disrupt the	the free flow of traffic
	Alternative contributes	0 111	free flow of traffic	around the site.
Jacob Riis	noticeable, adverse	Overall impact would	around the site.	011
Park	increments to a long- term, moderate,	be long-term, minor, beneficial	Overall impact would	Overall impact would be long-term,
	beneficial cumulative	Delicitat	be long-term,	moderate, beneficial
	impact.	Alternative contributes	moderate, beneficial	moderate, beneficial
	impact.	noticeable, beneficial	moderate, concreta	Alternative contributes
		increments to a long-	Alternative contributes	appreciable, beneficial
		term, moderate,	appreciable, beneficial	increments to a long-
		beneficial cumulative	increments to a long-	term, moderate,
		impact.	term, moderate,	beneficial cumulative
			beneficial cumulative	impact.
			impact.	

Appendix F: Summary of Environm Site	ental Consequences Alternative A	Alternative B	Alternative C	Alternative D
	Increased	New parking would	By relying on existing	Jacob Riis Park
	developments would	provide ample and	infrastructure at Fort	parking lot has the
	not include new	efficient capacity for	Tilden, impacts would	capacity to support the
	parking. This would	the Riis Landing	be similar to those of	new Landing
	result in existing	developments. It	Alternative A.	developments.
	parking lots quickly	would also support		However, based on the
	filling to capacity,	existing activities at	Overall impact: long-	distance between the
	leading visitors to	Fort Tilden. There	term, moderate,	two sites, and the need
	spend time searching	would be noticeable	adverse	to rely on a shuttle,
	for parking or parking	changes in the park-	A 14 4 4 1 4	visitor choice would
	in overflow parking	like atmosphere.	Alternative contributes	be limited.
Riis Landing	lots.	Overall impact: short-	appreciable, adverse increments to a long-	Overall impact: long-
	Overall impact: long-	term, minor, adverse	term, moderate,	term, minor, adverse
	term, moderate,	and long-term,	beneficial cumulative	term, mmor, adverse
	adverse	moderate, beneficial.	impact.	Alternative contributes
	4470150	moderate, senement.	impact.	noticeable, beneficial
	Alternative contributes	Alternative contributes		increments to a long-
	appreciable, adverse	noticeable to		term, moderate,
	increments to a long-	appreciable, beneficial		beneficial cumulative
	term, moderate,	increments to a long-		impact.
	beneficial cumulative	term, moderate,		
		beneficial cumulative		
	impact.	beneficial cumulative		

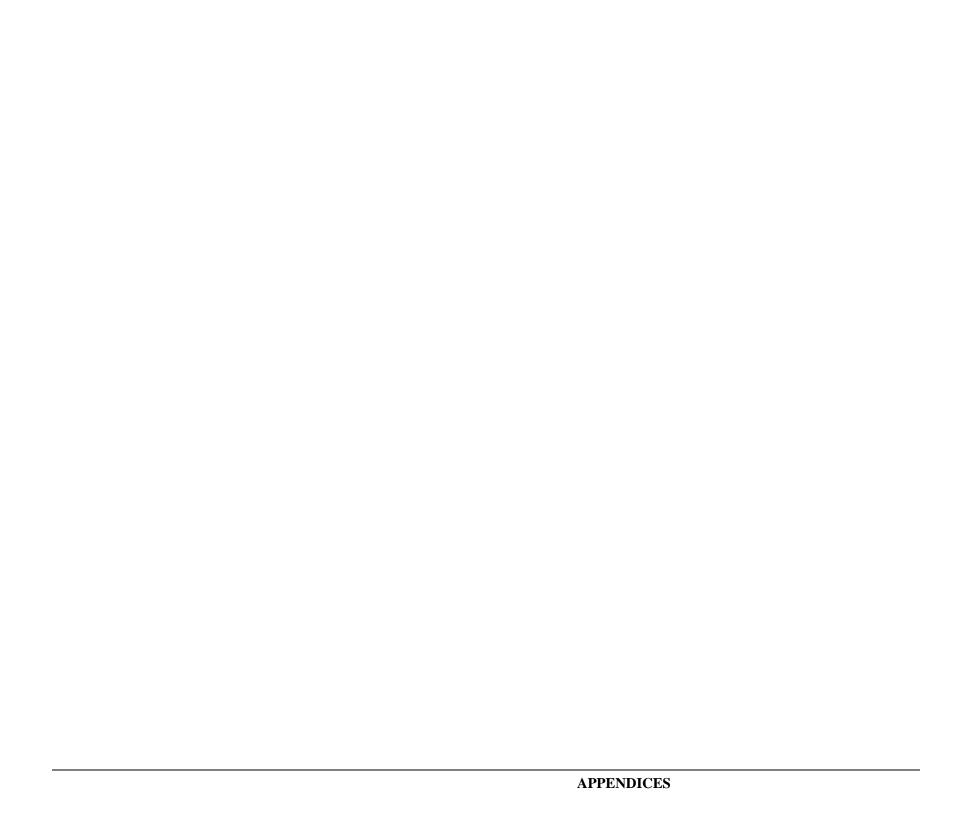
Appendix F: Summary of Environme	ental Consequences			
Site	Alternative A	Alternative B	Alternative C	Alternative D
	Without formalized	Formalized access and	Formalized access and	Formalized access and
	access, the new sites	parking would provide	parking would provide	parking would provide
	would only be	safe passage for	safe passage for	safe passage for
	accessible on foot or	pedestrians, bicycles,	pedestrians, bicycles,	pedestrians, bicycles,
	by bike. In many	and vehicles. The new	and vehicles. The new	and vehicles. The new
	areas, access would be unsafe. On site, there	parking areas would serve as an orientation	parking areas would serve as an orientation	parking areas would serve as an orientation
	would be no central	point for the large	point for the large	point for the large
	location within the	sites. They would also	sites. They would also	sites. They would also
	sites for orientation.	enhance the park-like	enhance the park-like	enhance the park-like
	The barren	atmosphere at both	atmosphere at both	atmosphere at both
	administrative areas	sites.	sites.	sites.
New NPS	would detract from the			
Sites	green environment.	Overall impact: long-	Overall impact: long-	Overall impact: long-
	Overall impacts long	term, moderate, beneficial.	term, moderate, beneficial.	term, moderate, beneficial.
	Overall impact: long- term, moderate,	Deficitation	Deficitation	belieficial.
	adverse.	Alternative contributes	Alternative contributes	Alternative contributes
		appreciable, beneficial	appreciable, beneficial	appreciable, beneficial
	Alternative contributes	increments to a long-	increments to a long-	increments to a long-
	appreciable, adverse	term, moderate,	term, moderate,	term, moderate,
	increments to a long-	beneficial cumulative	beneficial cumulative	beneficial cumulative
	term, moderate,	impact.	impact.	impact.
	beneficial cumulative			
	impact.			

Appendix F: Summary of Environmental Consequences						
	Site	Alternative A	Alternative B	Alternative C	Alternative D	
		Lack of site	The new entrance	The new entrance	The new entrances	
		recognition would	would require new	would require new	would require new	
		require NPS to focus	maintenance activities.	maintenance activities.	maintenance activities.	
		on basic interpretation.	The improved site	The improved site	The improved site	
		Access and circulation	recognition would	recognition would	recognition would	
		problems would	allow staff to focus on	allow staff to focus on	allow staff to focus on	
		require regular	improving	improving	improving	
		attention.	opportunities on	opportunities on	opportunities on	
			closed runways.	closed runways and	closed runways and	
		Overall impact: long-	Rerouting of traffic	within the historic	within the historic	
		term, negligible,	would also reduce	district. Rerouting of	district.	
Operations	Floyd	adverse	need for traffic control	traffic would also		
operations	Bennett Field		activities.	reduce need for traffic	Overall impact: long-	
		Alternative contributes		control activities.	term, moderate,	
		imperceptible, adverse	Overall impact: long-		beneficial	
		increments to a long-	term, minor, beneficial	Overall impact: long-		
		term, minor, beneficial		term, moderate,	Alternative contributes	
		cumulative impact.	Alternative contributes	beneficial	appreciable, beneficial	
			noticeable, beneficial		increments to a long-	
			increments to a long-	Alternative contributes	term, minor, beneficial	
			term, minor, beneficial	appreciable, beneficial	cumulative impact.	
			cumulative impact.	increments to a long-		
				term, minor, beneficial		
				cumulative impact.		

	Site	ental Consequences Alternative A	Alternative B	Alternative C	Alternative D
		No changes would be	New maintenance	New developments	New developments
		made to current	activities would be	would occur primarily	would occur primarily
		operations. The NPS	required around the	on non-NPS lands.	on non-NPS lands.
		would need to focus	new entrance and	Changes in operations	Changes in operations
		on promoting the site	within the parking lot	could easily be	could easily be
		to address lack of site	queuing lane. There	incorporated into	incorporated into
		recognition.	would also be an	current practices. This	current practices. This
		0 111	increase in effort at the	would allow staff to	would allow staff to
		Overall impact: long-	toll booths. The direct	focus on improving	focus on improving
		term, negligible, adverse.	access would allow staff to focus on	opportunities at the	opportunities at the
	Jacob Riis	adverse.	activities other than	park.	park.
	Park	Alternative contributes	site recognition.	Overall impact: long-	Overall impact: long-
	Tark	imperceptible, adverse	site recognition.	term, minor,	term, minor,
		increments to a long-	Overall impact: short-	beneficial.	beneficial.
		term, minor, beneficial	term, moderate,		
	cumulative impact.	adverse and long-term, minor, beneficial.	Alternative contributes noticeable, beneficial increments to a long-	Alternative contributes noticeable, beneficial increments to a long-	
			Alternative contributes noticeable, beneficial increments to a long- term, minor, beneficial cumulative impact.	term, minor, beneficial cumulative impact.	term, minor, beneficial cumulative impact.

Site	Alternative A	Alternative B	Alternative C	Alternative D
	The lack of parking	The new parking lot	By relying on existing	Changes would be
	would require staff to	would require	Fort Tilden	required at the Jacob
	dedicate time to traffic	landscaping, cleaning,	infrastructure, this	Riis Park toll booths to
	control and parking	and maintenance	alternative would have	account for Riis
	direction. The overuse	activities. All of these	impacts similar to	Landing users.
	of overflow lots would	activities could be	those in Alternative A.	Attempting to enforce
	also require additional	incorporated into		the new parking
	maintenance.	existing operations. With dedicated	Overall impact: long- term, minor to	procedures would be impossible, resulting
	Overall impact: long-	parking, staff could	moderate, adverse	in impacts similar to
	term, minor to	focus on improving		Alternative A.
	moderate, and adverse	the Landing.	Alternative contributes	
Riis Landing			noticeable to	Overall impact: long-
	Alternative contributes	Overall impact: long-	appreciable, adverse	term, moderate,
	noticeable to appreciable, adverse	term, negligible, and beneficial	increments to a long- term, minor, beneficial	adverse
	increments to a long-		cumulative impact	Alternative contributes
	term, minor, beneficial cumulative impact.	Alternative contributes imperceptible,		appreciable, adverse increments to a long-
	1	beneficial increments		term, minor, beneficial
		to a long-term, minor,		cumulative impact
		beneficial cumulative		
		impact		

Appendix F: Summary of Environm Site	Alternative A	Alternative B	Alternative C	Alternative D
	On-site staff would be required to dedicate much of their time to	The new infrastructure would require occasional	Impacts would be the same as those in Alternative B.	Despite having more developed surface, impacts would be the
	directing visitors into the site and ensuring that bicycles or other	landscaping, maintenance, and cleaning. When the	Overall impact: long-term, negligible,	same as those in Alternative B.
	vehicles did not go off the trails that could	sites were closed to the public, the gated entrance could easily	adverse	Overall impact: long- term, negligible, adverse
	support them. It would also be necessary to keep visitors from	secure the site. These activities could be	imperceptible, adverse increments to a long- term, minor, beneficial	imperceptible, adverse
New NPS Sites	these areas as they would not be safe for regular activity.	easily incorporated into the operating procedures at the new sites.	cumulative impact.	increments to a long- term, minor, beneficial cumulative impact.
	Overall impact: long- term, minor to moderate, adverse	Overall impact: long-term, negligible, adverse.		
	Alternative contributes appreciable, adverse increments to a long-term, minor, beneficial cumulative impact	Alternative contributes imperceptible, adverse increments to a long-term, minor, beneficial cumulative impact.		









As the nation's principal conservation agency, the Department of the Interior has responsibility for most of our nationally owned public lands and natural resources. This includes fostering sound use of land and water resources; protecting our fish, wildlife, and biological diversity; preserving the environmental and cultural values of our national parks and historical places; and providing for the enjoyment of life through outdoor recreation. The department assesses our energy and mineral resources and works to ensure that their development is in the best interests of all our people by encouraging stewardship and citizen participation in their care. The department also has a major responsibility for American Indian reservation communities and for people who live in island territories under U.S. administration.

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