Oceanside Location	Mileage*	Alts A and B— No Action	Alternative C	Alternative D	Alternative E	Alternative F
Bodie Island (north to south) Ramp 1 to north end of Coquina Beach	0.9	OPEN** Seasonally closed May 15 to Sep 15 (Longstanding safety closure).	ORV route—Mar 15 to Oct 14 Non-ORV area—Oct 15 to Mar 14	x	X Parking at ramp 1 expanded.	x
North end of Coquina Beach to 0.5 mile south of Coquina	0.8	OPEN** Seasonally closed May 15 to Sep 15 (Longstanding safety closure). South of ramp 2 at Coquina Beach open seasonally.	X Ramp 2 relocated approx. 0.5 mile south of Coquina Beach.	X Ramp 2 relocated approx. 0.5 mile south of Coquina Beach.	X  Ramp 2 relocated approx. 0.5 mile south of Coquina Beach.  Parking at Coquina Beach expanded.	X Ramp 2 relocated approx. 0.5 mile south of Coquina Beach.
0.5 mile south of Coquina to 0.2 mile south of ramp 4 (Includes beach in front of Oregon Inlet Campground. If Bonner Bridge construction closes ramp 4, new Ramp 3 will be constructed north of campground and day-use parking and trailhead near campground will be provided.)	2.1	OPEN YR**	ORV route YR	ORV route YR	ORV route YR ORV pass-through zone established on upper beach in front of campground when campground is open.	ORV route YR
0.2 mile south of ramp 4 to inlet to SW edge of Bait Pond (Species Management Area)	1.9	OPEN YR**	ORV route—Oct 15 to Mar 14 Non-ORV area—Mar 15 to Oct 14  Area closed to ORVs from March 15 to October 14. When pre-nesting area is established, a pedestrian access corridor would be allowed along ocean shoreline to the inlet. When shorebird breeding activity is observed, standard buffers would apply, which depending upon the circumstances could close the access corridor.  (SM2)	<b>X</b> (SM 1)	ORV route YR with limited access Mar 15 to Aug 31 When pre-nesting area is established, ORV corridor with pass-through zone would be allowed along ocean shoreline to the inlet. When shorebird breeding activity is observed, standard buffers would apply, which depending upon the circumstances could close the access corridor. Pedestrian trail to inlet from new parking near campground established. Trail subject to resource closures.  NPS would allow water taxi service to spit from Oregon Inlet Fishing Center, subject to designated landing zone and to resource closures.  (SM2)	ORV route—Aug 1 to Mar 14 Non-ORV area—Mar 15 to Jul 31*  *Area closed to ORVs from March 15 to July 31, or until 2 weeks after shorebird breeding ceases or all chicks have fledged, whichever is later. When pre-nesting area is established, a pedestrian access corridor would be allowed along ocean shoreline to the inlet. When shorebird breeding activity is observed, standard buffers would apply, which depending upon the circumstances could close the access corridor.  Pedestrian trail to inlet from new parking near campground established. Trail subject to resource closures.  (SM2)
Hatteras Island (north to south) Rodanthe–Waves–Salvo to ramp 23 (includes Tri-Village beaches)	5.3	OPEN ** Seasonally closed May 15 to Sep 15.	ORV route—Oct 15 to Mar 14 Non-ORV area—Mar 15 to Oct 14 Parking at ramp 23 expanded.	x	ORV route—Nov 1 to Mar 31 Non-ORV area—Apr 1 to Oct 31 Parking at ramp 23 expanded.	ORV route—Sep 16 to May 14 Non-ORV area—May 15 to Sep 15 Parking at ramp 23 expanded.



Comment: Park please verify this is correct

Oceanside Location	Mileage*	Alts A and B— No Action	Alternative C	Alternative D	Alternative E	Alternative F
Ramp 23 to ramp 27	4.3	OPEN YR**	ORV route YR	ORV route YR	ORV route YR One new ramp with parking established at 24 or 26.	ORV route YR.  Only new ramp with parking established at 24 only 26.  There would be 1.5 miles of "floating" non-ORV area for nonbreeding shorebirds, either here or in one of the segments below.
Ramp 27 to ramp 30 (Species Management Area)	2.2	OPEN YR**	ORV route—Oct 15 to Mar 14 Non-ORV area—Mar 15 to Oct 14 (SM1)	X (SM1)	X (SM1)	X (SM1)
Ramp 30 to (new) ramp 32.5	2.5	OPEN YR**	ORV route YR  New ramp with parking established at 32.5.	ORV route YR  New ramp established at 32.5.	ORV route YR  New ramp with parking established at 32.5.	ORV route YR <sup>+</sup> New ramp with parking established at 32.5.  *There would be 1.5 miles of "floating" non-ORV area for nonbreeding shorebirds, either here, in the above segment, or in the next segment.
(New) ramp 32.5 to ramp 34 (Species Management Area)	1.8	OPEN YR**	ORV route—Oct 15 to Mar 14 Non-ORV area—Mar 15 to Oct 14 (SM1)	<b>X</b> (SM1)	ORV route—Sep 1 to Mar 14 Non-ORV area—Mar 15 to Aug 31 (SM1)	ORV route*—Aug 1 to Mar 14 Non-ORV area—Mar 15 to Jul 31*  *Area closed from Mar 15 to Jul 31, or until 2 weeks after shorebird breeding ceases or all chicks have fledged, whichever is later.  *There would be 1.5 miles of "floating" non-ORV area for nonbreeding shorebirds, either here or in one of the two previous segments.  (SM1)
Ramp 34 to ramp 38 (includes Avon Village Beach)	3.9	OPEN** Seasonally closed May 15 to Sep 15.	ORV route—Oct 15 to Mar 14 Non-ORV area—Mar 15 to Oct 14	х	ORV route—Nov 1 to Mar 31 Non-ORV area—Apr 1 to Oct 31 Parking at ramp 34 expanded.	ORV route—Sep 16 to May 14 Non-ORV area—May 15 to Sep 15
Ramp 38 to approx. 1.7 miles south	1.7	OPEN YR**	ORV route YR	ORV route YR	ORV route YR Parking at ramp 38 expanded.	ORV route YR Parking at ramp 38 expanded.
Approximately 1.7 miles south of ramp 38 (i.e., Haulover) to Buxton line (Species Management Area)	2.0	OPEN YR** (Current 3.8-mile safety closure from 1.8 miles south of ramp 38 to 0.4 mile north of ramp 43.)	ORV route—Oct 15 to Mar 14 Non-ORV area—Mar 15 to Oct 14 (SM1)	X (SM1)	ORV route—Sep 1 to Mar 14 Non-ORV area—Mar 15 to Aug 31 (SM1)	X  New ramp 39 across from Haulover and new soundside parking at Kite Point established.  (SM1)
Buxton village beach to 0.4 mile north of ramp 43	1.9	OPEN** Seasonally closed May 15 to Sep 15 (longstanding safety closure).	X  NPS or Dare County to establish new parking at old Coast Guard Station site.	х	ORV route—Nov 1 to Mar 31 Non-ORV area—Apr 1 to Oct 31 NPS or Dare County to establish new ORV ramp and parking at old Coast Guard Station site.	X  NPS or Dare County to establish new parking at old Coast Guard Station site.

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Oceanside Location	Mileage*	Alts A and B— No Action	Alternative C	Alternative D	Alternative E	Alternative F
0.4 mile north of ramp 43 to ramp 43	0.4	OPEN** Subject to seasonal closure May 15 to Sep 15	ORV route—Oct 15 to Mar 14 Non-ORV area—Mar 15 to Oct 14 Parking at ramp 43 expanded.	x	ORV route—Mar 15 to Aug 31 Non-ORV area—Sep 1 to Mar 14 Open to ORVs only when east side of Cape Point is closed. Parking at amp 43 expanded.	ORV route YR  Parking at ramp 43 expanded.
Ramp 43 to 0.2 mile south of ramp 44	0.6	OPEN YR**	ORV route YR	ORV route YR	ORV route YR	ORV route YR
0.2 mile south of ramp 44 to Cape Point to approx. 0.2 mile west of the hook (Species Management Area)	1.0	OPEN YR**	ORV route—Oct 15 to Mar 14 Non-ORV area—Mar 15 to Oct 14 When pre-nesting area is established, a pedestrian access corridor would be allowed along ocean shoreline to the point. When shorebird breeding activity is observed, standard buffers would apply, which depending upon the circumstances could close the access corridor.  (SM2)	X (SM1)	ORV route YR with limited access Mar 15 to Aug 31 When pre-nesting area is established, ORV access corridor with pass-through zone would be allowed along ocean shoreline to the point. When shorebird breeding activity is observed, standard buffers would apply, which depending upon the circumstances could close the access corridor.  (SM2)	ORV route YR with limited access Mar 15 to Jul 31 When pre-nesting area is established, ORV access corridor would be allowed along ocean shoreline to the point. When shorebird breeding activity is observed, standard buffers would apply, which depending upon the circumstances could close the access corridor.  (SM2)
Cape Point 0.2 mile west of the hook to ramp 45 (Species Management Area)	1.2	OPEN YR**	ORV route—Oct 15 to Mar 14 Non-ORV area—Mar 15 to Oct 14 (SM1)	<b>X</b> (SM1)	ORV route—Sep 1 to Mar 14 Non-ORV area—Mar 15 to Aug 31 (SM1)	ORV route—Aug 1 to Mar 14 Non-ORV area—Mar 15 to Jul 31 (SM1)
Ramp 45 to (new) ramp 47 (Species Management Area)	1.7	OPEN YR**	ORV route—Oct 15 to Mar 14 Non-ORV area—Mar 15 to Oct 14 Interdunal road extended and new ramp 47 established.  (SM1)	<b>X</b> (SM1)	ORV route—Sep 1 to Mar 14 Non-ORV area—Mar 15 to Aug 31 Interdunal road extended and new ramp 47 established. (SM1)	ORV route*—Aug 1 to Mar 14 Non-ORV area—Mar 15 to Jul 31 Interdunal road extended and new ramp 47 established.  *There would be 1.5 miles of "floating" nonbreeding shorebird area, either here or in the segment below.  (SM1)
(New) ramp 47 to ramp 49 (includes beach in front of Frisco Campground)	1.7	OPEN YR**	ORV route YR Interdunal road extended to ramp 49 and new ramp 48 established.	ORV route YR	ORV route YR  ORV pass-through zone established on upper beach in front of campground (or bypass beach in front of campground via new interdunal road) when campground is open.  Interdunal road extended west of new ramp 47 to ramp 49 and new ramp 48 established.	ORV route YR <sup>+</sup> Interdunal road extended west of new ramp 47 to ramp 49 and new ramp 48 established.  *There would be 1.5 miles of "floating" nonbreeding shorebird area, either here or in the segment above.
Ramp 49 to East Frisco boundary	1.2	OPEN YR**	ORV route YR	ORV route YR	ORV route YR	ORV route YR
Frisco Village Beach (east village boundary to west boundary)	1.1	OPEN** Seasonally closed May 15 to Sep 15 (longstanding safety closure).	ORV route—Oct 15 to Mar 14 Non-ORV area—Mar 15 to Oct 14	X	X Parking at day-use area expanded.	ORV route—Dec 1 to Feb 28 Non-ORV area—Mar 1 to Nov 30

Oceanside Location	Mileage*	Alts A and B— No Action	Alternative C	Alternative D	Alternative E	Alternative F
Sandy Bay / Frisco Day-Use Area (west Frisco boundary to east Hatteras Village boundary)	1.4	OPEN** Seasonally closed May 15 to Sep 15 (longstanding safety closure).	ORV route—Oct 15 to Mar 14 Non-ORV area—Mar 15 to Oct 14	x	х	x
Hatteras Village Beach (east boundary to ramp 55)	2.2	OPEN** Seasonally closed May 15 to Sep 15 (longstanding safety closure).	ORV route—Oct 15 to Mar 14 Non-ORV area—Mar 15 to Oct 14	х	х	ORV route—Dec 1 to Feb 28 Non-ORV area—Mar 1 to Nov 30
Ramp 55 along ocean beach to 0.2 mile southwest of Bone Road	1.8	OPEN YR**	ORV route YR Parking expanded at ramp 55.	ORV route YR	ORV route YR Parking expanded at ramp 55.	ORV route YR
Pole Road from NC-12 past Cable Crossing access to Spur Road	2.3	OPEN YR**	ORV route YR	ORV route YR	ORV route YR	ORV route YR West of the overwash fan, Pole Road re-routed toward the sound to provide natural barrier to bird nesting area south of road.
Cable Crossing along sound shoreline to Spur Road	0.8	Varies	x	х	х	ORV route YR when width allows, subject to resource closure(s) to protect vegetation.
Spur Road along sound shoreline to Hatteras Inlet	0.2	OPEN YR**	ORV route YR  Pedestrian access to the "rip" permitted from soundside during breeding season, subject to resource closures.	x	ORV route YR  Pedestrian access to the "rip" permitted from soundside during breeding season, subject to resource closures.	ORV route YR  Pedestrian access to the "rip" permitted from soundside during breeding season, subject to resource closures.
Ocean shoreline from 0.2 mile southwest of Bone Road (a.k.a. Fort Clark Spur) to inlet (Species Management Area)	1.0	OPEN YR**	ORV route—Oct 15 to Mar 14 Non-ORV area—Mar 15 to Oct 14 (SM1)	<b>X</b> (SM1)	ORV route—Sep 1 to Mar 14 Non-ORV area—Mar 15 to Aug 31 (SM1)	X New interdunal road extending southwest and northeast of the south end of Pole Road established to provide access to False Point and inlet.  (SM1)
Ocracoke Island (north to south) Inlet to 0.25 mile northeast of ramp 59 (Species Management Area)	1.1	OPEN YR**	ORV route—Oct 15 to Mar 14 Non-ORV area—Mar 15 to Oct 14 Parking area at ramp 59 expanded. (SM1)	X (SM1)	X  Parking area at ramp 59 expanded. Pedestrian access corridor(s) provided, subject to resource closures during breeding season. Pedestrian boardwalk access from ferry terminal parking developed.  (SM1)	X  New interdunal road established parallel to the beach extending from ramp 59 for 0.3 mile northeast toward the inlet, with parking at the terminus.  (SM1)
0.25 mile northeast of ramp 59 to 0.25 mile southwest of ramp 59	0.5	OPEN YR**	ORV route YR	ORV route YR	ORV route YR	ORV verde II

ative D Alternative E Alternative F	Alternative D	Alternative C	Alts A and B— No Action	Mileage*	Oceanside Location
oute YR ORV route YR X	ORV route YR	ORV route YR	OPEN YR** (Longstanding safety closure.)	2.4	0.25 mile southwest of ramp 59 to new ramp 62 at 3.0 miles northeast of Pony Pen area
DO THE STREET OF THE PROPERTY OF THE PROPERTY OF THE STREET OF THE STREE	ORV route YR New ramps 62 and 64 established.	ORV route YR  New ramps 62 and 64 established.  Parking established at ramp 64.	OPEN YR** (Longstanding safety closure.)	2.0	New ramp 62 to new ramp 64 at 1.0 mile northeast of Pony Pen
X Parking at Pony Pen expanded.  Parking at Pony Pen expanded.	x	X Parking at Pony Pen expanded.	OPEN YR** (Longstanding safety closure.)	2.3	New ramp 64 at 1.0 mile northeast of Pony Pen to 0.75 mile northeast of ramp 67
ute YR ORV route YR ORV route YR	ORV route YR	ORV route YR	OPEN YR**	1.4	0.75 mile northeast of ramp 67 to 0.5 mile northeast of ramp 68
ORV route—Nov 1 to Mar 31  Non-ORV area—Apr 1 to Oct 31  ORV route—Nov 1 to Mar 31  Non-ORV area—Apr 1 to Oct 31	х	Seasonal ORV route Open when campground closed.	OPEN YR** Seasonally closed when campground open.	1.0	0.5 mile northeast of ramp 68 to 0.5 mile southwest of ramp 68 (Ocracoke Campground area)
Non-ORV area—Mar 15 to Oct 31	<b>X</b> (SM1)	ORV route—Oct 15 to Mar 14 Non-ORV area—Mar 15 to Oct 14 (SM1)	OPEN YR** Seasonally closed when campground open.	0.9	0.5 mile southwest of ramp 68 to 1.2 miles northeast of ramp 70 (Species Management Area)
ORV route—Nov 1 to Mar 31	X Parking at day-use area expanded.	X Parking at day-use area expanded.	OPEN YR** Seasonally closed when campground open.	0.8	1.2 miles northeast of ramp 70 to 0.5 mile northeast of ramp 70 (includes Ocracoke Day-Use Area)
ute YR ORV route YR ORV route YR	ORV route YR	ORV route YR	OPEN YR**	2.7	0.5 mile northeast of ramp 70 to 0.5 mile southwest of ramp 72
standard buffers would apply, which depending which depending which depending which depending	<b>X</b> (SM1)	ORV route—Oct 15 to Mar 14 Non-ORV area—Mar 15 to Oct 14 When pre-nesting area is established, a pedestrian access corridor would be allowed along ocean shoreline to the inlet. When shorebird breeding activity is observed, standard buffers would apply, which depending upon the circumstances could close the access corridor.  (SM2)	OPEN YR**	3.0	0.5 mile southwest of ramp 72 to inlet (Species Management Area)
					* All mileages are approximate.

<sup>\*</sup> All mileages are approximate.

<sup>\*\*</sup>Area(s) open to ORV use, except when resource, seasonal, or safety closures are in effect.

Designated ORV routes and areas (X = No ORV use permitted, YR = ORV use permitted year-round).

All ORV routes and areas subject to temporary resource closures.

Species Management Areas (SMAs): SM1 and SM2 are the two proposed strategies for species management. See Species Management Table for detailed description of these strategies. All areas outside of designated SMAs would be managed under the SM1 strategy.

(SM1 areas) Once pre-nesting closures are established at SM1 areas, ORV and pedestrian access would be prohibited until breeding activity is completed.

(SM2 areas) Once pre-nesting closures are established at SM2 areas, ORV or pedestrian access corridor(s) and/or boat landing areas (as indicated in the respective alternatives) would be permitted. Upon the first observation of breeding activity, standard SM2 buffers would apply, which depending upon the circumstances may close the access corridor.

Approximate Mileage Summary	A and B	С	D	E	F
Closed to ORVs (X)	varies	11.9	40.8	14.5	16.0
Seasonal ORV use	varies	28.7	0	26.1	25.8
ORV route YR	varies	27.4	27.2	27.4	26.2
Total	66 to 68	68.0	68.0	68.0	68.0

	,		TABLE 1. ORV R	COUTES AND AREAS		MW 10/64/69
	Alternative A—No Action: Continuation of Management under the Interior Co	Alternative B—No Action: Continuation of Management	Alternative C—Seasonal Management	Alternative D—Increased Predictability and Simplified Management	Alternative E—Variable Access and Maximum Management	Alternative F—Management Based on Advisory Committee Input
and Corridors	o 4 impri Post-it* Notes 3  Al Po ex Su aci mu  My Com		ORV routes: ORV access would be prohibited in all areas of the Seashore except where an ORV route is specifically designated.  An ORV route is a designated location, typically linear in nature (e.g., from point A to point B), where ORV travel may be authorized by the Superintendent, but which may be temporarily closed to ORV use to protect park resources,	ORV routes: ORV access would be prohibited in all areas of the Seashore except where an ORV route is specifically designated. The definition of ORV route is same as for alternative C.	ORV routes: ORV access would be prohibited in all areas of the Seashore except where an ORV route is specifically designated. The definition of ORV route is same as for alternative C.	ORV routes: ORV access would be prohibited in all areas of the Seashore except where an ORV route is specifically designated. The definition of ORV route is same as for alternative C.
ORV Routes, Use Areas, and	rou res Are  ORV co  Deach is marked by posts praced approx. 150 ft landward from the average, normal high tide line, or if less than 150 ft of space is available, at the vegetation or the toe of the remnant dune line; except as noted in the interim strategy. The corridor width will fluctuate over time due to the dynamic nature of beach and surf.	it:  ations hat are all  ocean backshore at least 10  meters wide, wherever there is sufficient beach width to allow an ORV corridor of at least  ometers above the mean high tide line.	provide for visitor safety, or prevent user conflicts. Refer to table 2 (Routes and Areas).  ORV corridors:  An ORV corridor is the actual physical demarcation of the ORV route in the field. The ORV corridor on the ocean beach would be marked by posts seaward of the toe of dune or vegetation line to the high tide line (the seaward side of the corridor would not be posted). ORV routes through vegetated areas, such as interdunal roads and ramps, would be posted on both sides of the corridor.	ORV corridors: Same as alternative C.  Seasonally designated ORV routes:	Analysis will drouge!  I hamp 24 AND 26  NO expended parking @ 46  Carrying capacity on Odrach	ear-round: Where the ocean beach is t least 30 m wide above the high tide ne, the corridor would be posted 0 meters seaward of the toe of the une to provide an ocean backshore losure.
8			Seasonally designated ORV routes: These would occur as indicated in table (Routes and Areas).	No seasonal designations under this alternative.	(Koutes and Areas).	asonally designated ORV routes: ese would occur as indicated in table 2 (Routes and Areas).
Village , Campground, and Day-Use Area Beaches	Village beaches, as identified below, are seasonally closed to ORV use from May 15 through Sep 15:  - Bodie Island from ramp 1 to 0.6 mi S of Coquina Beach. (Table 2 says 0.5 mi. Park to clarify.)  - Beaches fronting the villages of Rodanthe, Waves, Salvo, and Avon.  - The beach fronting Buxton S to ramp 43.  - Beaches fronting the villages of Frisco and Hatteras.  Ocracoke Day-Use Area and Campground beaches:  Ocracoke Island from 0.5 mi S of ramp 67 to 0.25 mi N of ramp 70 closed to ORVs when campground is open (approx. Apr 1 to Oct 31).	Same as alternative A, except:  The beach from ramp 43 to 0.4 mi N is open to ORVs year-round.	Village, campground, and day-use beaches would be managed as follows (also described in table 2):  Seasonally restricted ORV routes: (closed to ORVs Mar 15 to Oct 14, unless otherwise indicated)  Rodanthe, Waves, Salvo, Avon, Frisco, and Hatteras Village beaches.	Village beaches would be managed as follows (also described in table 2): Non-ORV areas year-round: - All village beaches would be non-ORV year-round.	Village beaches would be managed as follows (also described in table ☑):  Seasonally restricted ORV routes: (closed to ORVs Apr 1 to Oct 31)  Rodanthe, Waves, Salvo, and Avon beaches, and Buxton Beach S to 0.4 mi N of ramp 43.  Ocracoke Campground Beach, from 0.5 mi NE to 0.5 mi SW of ramp 68.  Non-ORV areas year-round:  Bodie Island from ramp 1 to approx. 0.5 mi S of Coquina Beach.  Frisco and Hatteras village beaches.  Ocracoke Day-Use Area Beach, from 1.2 mi NE (of ramp 70) to 0.5 mi NE of ramp 70.	Village beaches would be managed as follows (also described in table ②):  Seasonally restricted ORV routes: (closed to ORVs as indicated below)  - Rodanthe, Waves, Salvo, and Avon beaches (closed to ORVs May 15 to Sep 15).  - Frisco and Hatteras Village beaches would be closed to ORVs Mar 1 to Nov 30.  - Ocracoke Campground Beach, from 0.5 mi NE to 0.5 mi SW of ramp 68 (closed to ORVs Apr 1 to Oct 31).  - Ocracoke Day-Use Area Beach, from 1.2 mi NE to 0.5 mi NE of ramp 70 (closed to ORVs Apr 1 to Oct 31).  Non-ORV areas year-round:  - Bodie Island from ramp 1 to approx. 0.5 mi S of Coquina Beach.  - Buxton Beach S to 0.4 mi N of ramp 43.

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Oceanside access:				1	1
ORV access is provided via 17 oceanside ramps and access points located off NC-12.  Ramps are numbered and identified on the Seashore's ORV route map as official vehicle access routes.  Seashore staff maintains ramps and signage.	Oceanside access: Same as alternative A.	Oceanside access:  To provide access to the designated ORV routes and non-ORV areas in addition to the existing ramps, which would be maintained, new or improved ramps would be developed as identified in table 2. Toilet facilities and trash receptacles would be provided at high use locations.	Oceanside access: Same as alternative C.	Oceanside access: Same as alternative C.	Oceanside access: Same as alternative C.
Soundside access:  ORV access is provided via 18 soundside access points located off NC-12.  Seashore staff maintains ramps and signage.	Soundside access: Same as alternative A.	Soundside access:  Existing soundside ramps would be designated as ORV routes and would remain open with sufficient maintenance to provide clear passage.  Signage/posts would be installed at the primitive parking areas and boat launch areas to prevent damage to vegetation and other soundside resources.	Soundside access: Same as alternative A.	Soundside access:  Soundside ramps to designated boat launch areas and Pole Road access to the sound via Cable Crossing and Spur Road would remain open. The remaining soundside ramps would be closed to ORV use and small parking areas would be constructed to provide pedestrian access to the water, except:  - Existing Ocracoke Island access points N of village would remain open to commercial fishermen.  Signage/posts would be installed at the parking areas and boat launch areas to prevent damage to vegetation and other soundside resources.	Soundside access: Same as alternative C, plus: Bodie Island: Develop a new soundside vehicular access point (ORV or other). Ocracoke Island: Develop a new soundside access point approx. 0.65 mi S of ramp 72 by establishing short ORV route perpendicular from ocean beach toward sound, ending in a small unpaved parking area with a pedestrian trail leading to the sound.  The approx. 0.5 miles with a pedestrian trail seading to the sound.
Interdunal roads: One-lane, interdunal routes have been designated as follows:	Interdunal roads: Same as alternative A.	Interdunal roads: Same as alternative A, plus: Existing interdunal roads would be better maintained as needed to provide access to ORV areas. Pullouts or road widening would be provided where appropriate to provide safe passage.	Interdunal roads: Same as alternative A.	Interdunal roads: Same as alternative C.	South of whom 272  Meets the beach  Interdunal roads:  Same as alternative C.  The south of whom 272  Multiple South of the beach of th
Bodie Island Ranger District:	Bodie Island Ranger District:	Bodie Island Ranger District:	Bodie Island Ranger District:	Bodie Island Ranger District:	Bodie Island Ranger District:
None.	Same as alternative A.	Same as alternative A.	Same as alternative A.	Same as alternative A.	Same as alternative A.
<ul> <li>Hatteras Island Ranger District:</li> <li>Cape Point between ramp 44 and ramp 45.</li> <li>Hatteras Inlet from ramp 55 to the inlet (includes Pole Road and Spur Road).</li> </ul>	Hatteras Island Ranger District: Same as alternative A.	Hatteras Island Ranger District:  Same as alternative A, plus:  - South Beach: Extend interdunal road W of ramp 45 to newramp 47,  Establish new Youngs 47 and 48 pt of interduvel yeard.	Hatteras Island Ranger District: Same as alternative A.	Hatteras Island Ranger District: Same as alternative C. excepts - South Beach: Extend interdunal road W of ramp 48 to ramp 48. Establish new ramp 48 off of interdunal road.	Hatteras Island Ranger District: Same as alternative E, plus:  - Hatteras Inlet Spit: Re-route Pole Road toward the sound W of the Overwash Fan to provide natural barrier to bird nesting area S of road; and establish new interdunal road, with SW and NE extensions parallel to the beach, from the southern terminus of Pole Road to provide access to False Point and inlet.
Ocracoke Island Ranger District: None.	Ocracoke Island Ranger District: Same as alternative A.	Ocracoke Island Ranger District: Same as alternative A.	Ocracoke Island Ranger District: Same as alternative A.	Ocracoke Island Ranger District: Same as alternative A.	Ocracoke Island Ranger District:  North Ocracoke Spit: Establish new interdunal road parallel to the beach from ramp 59 for 0.3 mi NE toward the inlet, with parking area at the terminus.

from drive 0-25 mi

## 0024312

All areas of the seashore open 24 hours a day year-round.	Nov 16 to Apr 30: All beaches open to ORV use 24 hours a day.  May 1 to Nov 15: All potential sea turtle nesting habitat (ocean intertidal zone, ocean backshore, and dunes) closed to non-essential ORV use from 10:00 p.m. to 6:00 a.m., except that from Sep 16 to Nov 15 ORV use is allowed from 10:00 p.m. to 6:00 a.m. subject to terms and conditions of a permit.	Nov 16 to Apr 30: Designated ORV routes would be open to ORV use 24 hours a day.  May 1 to Nov 15: Designated ORV routes in potential sea turtle nesting habitat (ocean intertidal zone, ocean backshore, and dunes) would be closed to non-essential ORV use from 7:00 p.m. to 7:00 a.m.  Hours of night driving prohibition would be established in the Superintendent's Compendium and subject to periodic review.	Same as alternative C, except: - No periodic review.	Nov 16 to Apr 30: Designated ORV routes would be open to ORV use 24 hours a day.  May 1 to Nov 15: Designated ORV routes in potential sea turtle nesting habitat (ocean intertidal zone, ocean backshore, and dunes) would be closed to non-essential ORV use from 10:00 p.m. to 6:00 a.m.  Sep 16 to Nov 15: Selected ORV routes with no or low density of turtle nests would reopen to ORV use between 10:00 p.m. and 6:00 a.m., subject to terms and conditions of permit.	Nov 16 to Apr 30: Designated ORV routes would be open to ORV use 24 hours a day. May 1 to Nov 15: Designated ORV routes in potential sea turtle nesting habitat (ocean intertidal zone, ocean backshore, and dunes) would be closed to nonessential ORV use from 1 hour after sunset until turtle patrol has checked the beach in the morning (by approx. ½ hour after sunrise).  Sep 16 to Nov 15: Selected ORV routes with no or low density of turtle nests remaining would reopen for night driving, subject to terms and conditions of an ORV permit.  Hours of night driving prohibition would be established in the Superintendent's Compendium and subject to periodic review.
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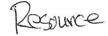
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## 0024314

Pedestrian Safety	36 CFR 4.20, Right-of-Way: An operator of a motor vehicle shall yield the right of way to pedestrians (as well as saddle and pack animals, and vehicles drawn by animals). Failure to yield the right of way is prohibited.  36 CFR 4.22, Unsafe Operation: (b) The following are prohibited: (3) Failing to maintain that degree of control of a motor vehicle necessary to avoid danger to persons, property, or wildlife.  No additional measures apply.	Same as alternative A.	Same as alternative A.	Same as alternative A.	Same as alternative A, plus:  - For village beaches that are open to ORV use during the winter season, the village beaches must be at least 20 m (66 ft) wide from the toe of the dune seaward to mean high tide line in order to be open to ORV use.	<ul> <li>Same as alternative A, plus: <ul> <li>Vehicles must yield to pedestrians on all ORV routes.</li> <li>When approaching or passing a pedestrian on the beach, ORVs shall move to the landward side of the available ORV driving in order to yield the wider portion of the beach corridor to the pedestrian.</li> <li>ORVs shall slow to 5 mph (or the slowest possible speed to maintain traction without exceeding the overall speed limit) when traveling within 30 ft (40 m) or less of pedestrians at any location on the beach at any time of year.</li> <li>Pedestrians should not block access ramps and should use pedestrian ramps/boardwalks where available. If a pedestrian walkover is not available, pedestrians should walk to the side of ORV ramps, not in the tire tracks.</li> </ul> </li> </ul>
Administra- tive ORV Closures	The beach in front of the former site of Cape Hatteras Lighthouse is closed to ORV access.  Buxton Woods Road is closed to ORV access.	Same as alternative A.	No administrative closures would be established. ORV routes and non-ORV areas would be designated as described in table 2.	Same as alternative C.	Same as alternative C.	Same as alternative C.
Temporary Emergency ORV Closures	Temporary emergency ORV closures established per Superintendent's Compendium and NPS policy.	Same as alternative A, plus:  NPS retains the authority to implement a temporary emergency ORV closure if any of the following conditions are observed:  ORV traffic is backing up on the beach access ramps, either onor off-beach bound, which threatens to impede traffic flow.  ORV traffic on the beach is parked in such a way that two-way traffic is impeded.  Multiple incidents of disorderly behavior are observed or reported.	Same as alternative B, plus:  - Beaches would be temporarily closed to additional ORV use if/when carrying capacity is reached or exceeded.	Same as alternative B.	Same as alternative C.	Same as alternative C.
Ramp Characteristics	Ramp width and construction details vary. Current practice is to use shell/clay base material to provide firm driving surface where ramps cross dune line.	Same as alternative A.	Ramps would be two lanes wide with shell/clay base and have:  - Standard regulatory signs and information boards at all ramps.  - Gates at all ramps and access points.  - Designated "air down" area with hardened surface (e.g., shell/clay base).	Same as alternative C.	Same as alternative C.	Same as alternative C, plus:  - Preferably, each ORV route would have an access ramp at either end of the route.



## 0024315

## TABLE 1. ORV ROUTES AND AREAS

*						
Permit Require- ments	No permit required.	Night driving permit required for ORV use from 10:00 p.m. to 6:00 a.m. Sep 16 to Nov 15.	ORV permit required.	Same as alternative C.	Same as alternative C.	Same as alternative C.
Permit Distribu- tion	N/A	Available in person at various locations and online.	Available in-person at designated permit issuing stations and on-line	Same as alternative C.	Same as alternative C.	Same as alternative C.
Permit Issuance Requirements	N/A	ORV owner must sign permit to acknowledge understanding of the rules and must carry permit when beach driving during the restricted period.	ORV owners must complete a short education program in person or online and pass a basic knowledge test. Owners would sign for their permits to acknowledge understanding of the rules and regulations governing ORV use at the Seashore.	ORV owners must read an information brochure and sign the permit to acknowledge understanding of the rules and regulations governing ORV use at the Seashore.	Same as alternative C.	Same as alternative C.
Permit Types	N/A	Night-driving permit for Sep 16 to Nov 15.	Annual ORV permits would be valid for 12 months from date of purchase.	Annual ORV permits would be valid for the calendar year.	Weekly (7-day) and annual (12-month) ORV permits would be valid from date of purchase. אייניקאל שפיעל זיינין אייניקאל מייניקאל מ	Weekly (7-day) and annual (12-month)  ORV permits would be valid from date of purchase. Permits would include mouth driving compress for Sep 16-1.  Night driving parmit required from Sep 18 to Nov 15.
Permit Number Limits	N/A	No limit on night-driving permits.	No limit on ORV permits.	Same as alternative C.	Same as alternative C, except:  - Use limits would be established for park-and-stay and SCV camping.  - Use limits would be subject to periodic review.	Same as alternative C.
Permit Fees	N/A	None	ORV permit fee would be based on cost recovery as described in NPS Director's Order and Reference Manual # 53.	Same as alternative C, except:  - Amount of fee would be lower than alternative C due to decreased management costs under this alternative.	Same as alternative C, except:  - Fee for weekly ORV permit would be less than fee for annual permit.  - Fees for park-and-stay and SCV permits would be determined separately.	Same as alternative C, except:  - Fee for weekly ORV permit would be less than fee for annual permit.
Permit Form	N/A	Night-driving permit is an informational brochure that the user signs and places on dash of vehicle.	ORV permit would be affixed to vehicle in a manner approved by the NPS.	Same as alternative C.	Same as alternative C.	Same as alternative C.
Permit Revocation	N/A	Night-driving permit may be revoked for violation of applicable park regulations or terms and conditions of the permit.	ORV permit may be revoked for violation of applicable park regulations or terms and conditions of the permit.	Same as alternative C.	Same as alternative C.	Same as alternative C.
Beach Parking	Parking within routes is allowed in any configuration as long for parked white de fort	Same as alternative A.	Same as alternative A.	Parking within ORV routes is allowed, but only one vehicle deep. Stacking of vehicles in more than one row would be prohibited.	Same as alternative A.	Same as alternative A.

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Vehicle Carrying Capacity Determination	Vehicle carrying capacity would not be determined.	Same as alternative A.	Carrying capacity would be a "peak use limit" determined for all areas based on the linear feet of beachfront and the following physical space requirements ("mi" refers to miles of beach open to ORV use):  Bodie Island Ranger District:  - 260 vehicles/mi (20 ft/vehicle).  Hatteras Island Ranger District:  - 260 vehicles/mi (20 ft/vehicle).  Ocracoke Island Ranger District:  - 100 vehicles/mi (30 ft/vehicle).  Temporary exceptions to carrying-capacity limits may be approved for short-term events operating under a special-use permit.  Carrying-capacity criteria would be subject to periodic review.	Carrying capacity would be addressed solely by the beach parking restriction described in the row above.	Same as alternative C, except:  Hatteras Island Ranger District:  Cape Point: 400 vehicles allowed within a 1 mi area centered on Cape Point.  Ocracoke Island Ranger District:  175 vehicles/mi (30 ft/vehicle).	Same as alternative E, except:  Ocracoke Island Ranger District:  - 260 vehicles/mi (20 ft/vehicle).
ORV Characteristic Requirements	All vehicles operating in all areas of the Seashore must have valid vehicle registration, insurance, and license plate.  Vehicles must be street legal. Allterrain vehicles (ATVs) are prohibited from beach driving.	Same as alternative A.	Vehicle characteristics:  - All vehicles must be registered, licensed, and insured for highway use and must comply with state inspection regulations within the state, country, or province where the vehicle is registered  - Four-wheel-drive vehicles are recommended.  - Two-wheel-drive vehicles are allowed.  - Motorcycles and ATVs are prohibited.  - There is a three-axle maximum for vehicles (this is the axle maximum for the powered vehicle only and does not include the additional number of axles on towed trailers).  - Any trailers are limited to no more than two axles.  - The maximum vehicle length is 30 ft (this is the maximum length for the powered vehicle and does not include the additional length of a towed trailer).  - Tires must be U.S. Dept. of Transportation—listed or approved.	Same as alternative C.	Same as alternative C, except:  - Motorcycles would be prohibited on ocean beaches, but allowed on soundside access areas where ORVs are allowed.	Same as alternative C.

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Equipment Requirements	None	Same as alternative A.	<ul> <li>Equipment requirements:</li> <li>All vehicles shall contain a low-pressure tire gauge, shovel, jack, and jack stand.</li> <li>A full-sized spare tire, first-aid kit, fire extinguisher, trash bag or container, flashlight (if night driving), and tow strap are recommended.</li> </ul>	Same as alternative C.	Same as alternative C.	Same as alternative C.
Tire Pressure	Recommend air down of tires before driving on the beach.	Same as alternative A.	When driving on designated routes, tire pressure must be lowered sufficiently to maintain adequate traction within the posted speed limit. Tire pressure of 20 psi is <i>recommended</i> for most vehicles. The softer the sand, the lower the pressure needed. Re-inflate tires to normal pressure as soon as possible after vehicle returns to paved roads.	Same as alternative C.	Same as alternative C.	Same as alternative C.
Speed Limit	Speed limit is 25 mph (unless otherwise posted) on park beaches for public and private vehicles.  Speed limit is 10 mph when ORV corridor is less than 100 ft wide.  Speed limit in front of villages during off season (Sep 16 to May 14) on park beaches posted at 10 mph.  Emergency vehicles exempt when responding to a call.	May 15 to Sep 15: Speed limit is 15 mph (unless otherwise posted) Sep 16 to May 14: Speed limit is 25 mph (unless otherwise posted)	Speed limit is 15 mph (unless otherwise posted). Emergency vehicles exempt when responding to a call.	Same as alternative C.	Same as alternative C.	Same as alternative C.
Essential Vehicles	Essential vehicles are allowed in non-ORV areas and within resource closures subject to guidelines in Essential Vehicles section of Appendix G of the USFWS Piping Plover, Atlantic Coast Population, Revised Recovery Plan. To the extent practicable, emergency response vehicle operators will consult with trained resource management staff regarding protected species before driving into or through resource closures; however, prior consultation may not always be practical.	Same as alternative A.	Same as alternative A.	Same as alternative A.	Same as alternative A.	Same as alternative A.
Non-ORV Areas	None designated. ORVs are temporarily prohibited in seasonal (village) closures, safety closures, administrative closures, and resource closures, including some areas that have been closed to ORV use for many years.	Same as alternative A.	Non-ORV areas would be designated as indicated in table 2.	Non-ORV areas would be designated as indicated in table 2.	Non-ORV areas would be designated as indicated in table ☑.	Non-ORV areas would be designated as indicated in table 2.

Resource Education	Information is available to the general public through the park website, newspaper, information brochures, and interpretive programs. However, there is no targeted education program for beach users.	Same as alternative A, except:  Night-driving permit has basic education component.  Protected species information is available at ORV access points.  There is a 24-hour citizen phone line.  The beach access brochure is to be redesigned.	General information would remain available as described in alternative A.  There would be a new required education program for ORV users, as described under ORV Permit Issuance Requirements.	Same as alternative C.	Same as alternative C.	Same as alternative C, plus:  - There would be a new voluntary resource education program targeted toward non-ORV beach users.
Temporary ORV Use of Non-ORV Areas	N/A	N/A	Under the terms and conditions of a special use permit, the Superintendent could authorize the following:  - Temporary emergency ORV use of non-ORV areas if needed to bypass sections of NC-12 that are closed for repairs.  - Temporary non-emergency ORV use of non-ORV areas traditionally used for fishing tournaments that were established prior to Jan 1, 2009.  - Temporary non-emergency ORV use of non-ORV areas to transport mobility-impaired individuals to join their family or friends on an open beach that is otherwise closed to ORVs. ORV use would be limited to the shortest, most direct distance between the nearest designated ORV route and the location of the gathering.  Temporary non-emergency use by nonessential vehicles would not be permitted within resource closures.	Same as alternative A.	Same as alternative C.	Same as alternative C.
Parking Areas for Non-ORV Access	Parking is currently provided in 32 park-maintained parking lots throughout the Seashore, totaling approx. 1,000 spaces.	Same as alternative A.	New or expanded parking would be established to support pedestrian access to non-ORV areas as identified in table  NPS would use environmentally appropriate design standards to minimize stormwater runoff and other resource impacts. Toilet facilities and trash receptacles would be provided at high-use locations.	Same as alternative C.	Same as alternative C.	Same as alternative C.

_					Same as alternative C, plus:	
Alternative Transportation	None	Same as alternative A.	NPS would consider applications for commercial use authorization to offer beach shuttle services.	Same as alternative A.	- NPS would designate and post boat landing zones (drop-off) near the inlet at Bodie Island Spit and South Point Ocracoke that could be used to drop off pedestrians if/when the inlet shoreline is not otherwise closed to protect park resources. NPS would encourage a commercial water shuttle service for this purpose; however, the drop-off points would be subject to closure on short notice if needed to protect park resources.	Same as alternative C.
					Same as alternative C. plus:	
Camping and Nighttime Beach Use	Per 36 CFR 2.10: Camping* is prohibited except in designated areas. In the Superintendent's Compendium, camping is prohibited on Seashore beaches. In areas open to ORV use, ORVs are allowed on the beach overnight if someone associated with the vehicle is actively fishing.  *Camping is defined in 36 CFR 1.4 as the erecting of a tent or shelter of natural or synthetic material, preparing a sleeping bag or other bedding material for use, parking of a motor vehicle, motor home, or trailer, or mooring of a vessel for the apparent purpose of overnight occupancy.	Same as alternative A, plus:  - Nighttime use of ORVs is seasonally restricted as described under the Hours of Allowable ORV Operation section.	Same as alternative B, plus:  - Unattended beach equipment (e.g., chairs, canopies, volleyball nets, water sports gear) is prohibited on the Seashore at night. Turtle patrol and law enforcement will tag equipment found at night. Owners have 24 hours to remove equipment before it is removed by NPS staff.  - This policy would be subject to periodic review.	Same as alternative C.	Same as alternative C, plus:  SCV camping would be authorized as follows:  The following campgrounds and use limits would be designated for SCV camping from Nov 1 to Mar 31: Oregon Inlet—100 spaces; Cape Point—100 spaces; and Ocracoke—50 spaces. Use limits would be established in the Superintendent's Compendium and subject to periodic review.  SCV permits would be required, in addition to an ORV permit for beach driving, and would be available in weekly or seasonal increments.  There would be a 7-consecutive-day-/6-night-stay limit during any one visit and a limit of one visit per month.  SCVs would be required to have a self-contained toilet and a separate, permanently installed holding tank for both black and grey water, each with a min. capacity of 3 days' waste.  Holding tanks must be dumped at an appropriate facility every 72 hours during a visit.  Between Marchard Schleibshed: Inlet spits—15 vehicles each; Cape Point and South Point Ocracoke—25 vehicles each.  Park-and-stay use limits and hours of night-driving prohibition would be established in the Superintendent's	Same as alternative C.
					established in the Superintendent's Compendium and subject to periodic review.	

Beach Fires	Per 36 CFR 2.13: Fires are prohibited except in designated areas. In the Superintendent's Compendium, beach fires are authorized year-round, with the following restrictions:  - Fires are prohibited from midnight to 6:00 a.m. year-round.  - Fires are prohibited within resource closures.	Same as alternative A.	Same as alternative B, plus:  - A non-fee educational fire permit is required for any beach fire year-round.  - This policy would be subject to periodic review.	Same as alternative B.	Same as alternative C.	Same as alternative C, except:  - May 1 to Nov 15: Beach fires would be permitted only in front of Coquina Beach, Rodanthe, Waves, Salvo, Avon, Buxton, Frisco, Hatteras Village, and Ocracoke Day-Use Area during the sea turtle nesting season.
Pets	Per 36 CFR 2.15: The following are prohibited:  - Possessing a pet in an area closed to the possession of pets by the Superintendent.  - Failing to crate, cage, restrain on a leash which shall not exceed 6 ft in length, or otherwise physically confine a pet at all times.  In the Superintendent's Compendium, pets are prohibited in all resource closures. Pets are prohibited, even if on a leash, from the landward side of the posts delineating the ORV corridor at the spits (Bodie, Hatteras, Ocracoke) and Cape Point.	Same as alternative A.	Same as alternative A, except:  Pets would be prohibited within all designated Breeding Shorebird Species Management Areas (SMAs) from Mar 15 to Oct 15.  Pets would be prohibited within all Nonbreeding Shorebird SMAs that are otherwise open to recreational use.  Pets would be prohibited in ORV access corridors during the prenesting period.  This policy would be subject to periodic review.	Same as alternative C, except:  - Pets would be prohibited in all designated SMAs year-round.  - This policy would not be subject to periodic review.	Same as alternative C, except:  - Pets would be prohibited within all designated Breeding Shorebird SMAs, including pass-through zones, from Mar 15 to Aug 31.	Same as alternative C, except:  - Pets would be prohibited in all designated Breeding Shorebird SMAs from Mar 15 to Jul 31, or 2 weeks after all shorebird breeding activities have ceased or all chicks in the area have fledged, whichever comes later.
Horses	Per 36 CFR 2.16: The use of horses or pack animals is prohibited outside of trails, routes, or areas designated for their use.  In the Superintendent's Compendium, horse use is prohibited in resource closures and on lifeguarded beaches, and is allowed only in the following locations:  - On the beach seaward of the existing dunes and only on beaches open to ORV use.  - Along road shoulders or across paved roads where travel is necessary to cross to and from beach access routes.  - On trails or in areas as authorized by commercial-use authorization or special-use permit.	Same as alternative A.	Same as alternative A, except::  - Horse use would be allowed in some non-ORV areas, except for SMAs, and on a limited number of trails to be designated in the Superintendent's Compendium after ORV routes are determined.  - Horse use would be allowed on village beaches from Sep 16 to May 14.  - This policy would be subject to periodic review.	Same as alternative A.	Same as alternative C.	Same as alternative C, except:  - Horse use would be authorized in any upper beach ORV corridor(s), if such is provided at "floating" Nonbreeding Shorebird SMAs as described in the final section of this table.

None  Same as alternative A.  Same as alternative C.	Commercial Fishing Vehicles	Commercial fishing at the Seashore is authorized and managed under a special-use permit in accordance with 36 CFR 7.58(b). Commercial fishing vehicles are considered nonessential vehicles and are not authorized to enter resource closures. Permitted commercial fishermen are authorized to enter other areas that are closed to recreational ORV use, including seasonal closures and safety closures, but are not authorized to enter lifeguarded beaches.	Same as alternative A, plus:  - Commercial fishing vehicles are subject to the night-driving restriction in the consent decree.	Same as alternative A, except:  - Commercial fishermen would not be required to obtain an ORV permit that would be required for recreational ORVs.  - Commercial fishing vehicles would be authorized to enter non-ORV areas, except for full resource closures and lifeguarded beaches.  - In areas outside of existing resource closures, the Superintendent would be able to modify the hight-driving restrictions subject to terms and conditions of the fishing permit, for commercial fishermen who are actively engaged in authorized commercial fishing activity and can produce fish house receipts from the past 30 days. Such modifications would be subject to periodic review.	Same as alternative C.	Same as alternative C.	Same as alternative C.
Protection: \$1,162,000   Protection: \$1,424,300   Protection: \$1,632,700   Protection: \$1,632,700   Protection: \$1,632,700   Administration: \$2,073,100   Protection: \$99,500   Administration: \$99,500	Periodic Review	None	Same as alternative A.	systematic review of the ORV management measures that are identified in this plan as being subject to Periodic Review. This could result in changes to those management actions	Same as alternative A.	Same as alternative C.	Same as alternative C.
Total: \$1,800,650 Total: \$2,691,950 Total: \$2,801,800 Total: \$2,789,700 Total: \$3,459,000 Total: \$3,459,000 Total:	Staffing and Material Costs	Sesource Mgmt: \$41,750     Resource Mgmt: \$474,750     Facilities: \$58,300     Interpretation: \$63,850     Total: \$1,800,650	Administration: \$80,250 Resource Mgmt: \$829,250 Facilities: \$171,300 Interpretation: \$186,850	Resource Mgmt: \$696,250 Facilities: \$186,500 Interpretation: \$186,850	Administration: \$99,500  Resource Mgmt: \$637,750  Facilities: \$171,300  Interpretation: \$186,850	Administration: \$99,500  Resource Mgmt: \$905,450  Facilities: \$194,100  Interpretation: \$186,850	Administration: \$99,500  Resource Mgmt: \$836,950  Facilities: \$194,100  Interpretation: \$186,850

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Breeding Season Measures	Shorebird pre-nesting areas and ORV/pedestrian buffers for observed shorebird breeding behavior, sea turtle nests, and seabeach amaranth are established as described in the interim strategy FONSI.	Shorebird pre-nesting areas and ORV/pedestrian buffers for observed shorebird breeding behavior, sea turtle nests, and seabeach amaranth are established as described in the interim strategy FONSI, as modified by the consent decree.	Breeding Shorebird SMAs would be designated. Shorebird pre-nesting areas and ORV/pedestrian buffers for observed shorebird breeding behavior, sea turtle nests, and seabeach amaranth would be established as described in table (Species Management).  SM1 measures would be implemented at all locations (including those outside of SMAs), except at Bodie Island Spit, Cape Point, and South Point Ocracoke, where SM2 measures would be implemented.  Designated SMAs would be subject to periodic review.	Same as alternative C, except: - SM1 would be implemented at all locations	Same as alternative C, except:  - SM2 areas at Bodie Island Spit, Cape Point, and South Point Ocracoke would include an ORV pass-through zone, using standard buffer distances as described in table 5.	Same as alternative C, except:  - SM2 area at Bodie Island Spit would include a pedestrian access corridor, and SM2 areas at Cape Point and South Point Ocracoke would include an ORV access corridor, using standard buffer distances as described in table 5.
Nonbreeding Season Measures	As described in the interim strategy FONSI: Suitable interior habitats at spits and at Cape Point are closed year-round to all recreational users to provide for resting and foraging for shorebirds. Suitable habitats include ephemeral ponds and moist flats at Cape Point, Hatteras Spit, Ocracoke, and Bodie Island Spit. Actual locations of suitable foraging and resting habitat may change periodically due to natural processes and are determined based on annual habitat assessment and monitoring.	Same as alternative A.	Nonbreeding Shorebird SMAs would be established at the points and spits based on an annual habitat assessment. In addition, year-round non-ORV areas along the ocean shoreline outside of the villages, as identified in table 2, would be managed as Nonbreeding Shorebird SMAs with recreational activity restrictions as described in table 5.  Designated SMAs would be subject to periodic review.	Same as alternative C.	Same as alternative C.	Same as alternative C, plus the following areas would be managed as "floating" non-ORV areas during the nonbreeding season (i.e., as soon as breeding season closures are reduced or removed):  - "Floating" 1.5 mi of ocean shoreline habitat between ramp 23 (Salvo) and ramp 34 (Avon) would be non-ORV (in addition to ramps 27–30), based on habitat assessment and nonbreeding surveys.  - "Floating" 1.5 mi of ocean shoreline on South Beach between ramp 45 and ramp 49, based on habitat assessment and nonbreeding surveys. ORV access to be provided via interdunal road or upper beach route (where 50 m buffer can be maintained).  - "Floating" 1.0 mi of ocean shoreline between ramp 72 and inlet, based on annual habitat assessment and nonbreeding surveys. Upper-beach ORV corridor will be used to bypass the 1.0 mi shoreline area.  The "floating" Nonbreeding Shorebird SMAs would be monitored as described in table 5 and would be subject to periodic review.

\*This matrix is designed to display differences among alternatives; therefore, actions common to all alternatives are not included in it. Actions common to all alternatives can be viewed on pp. xx-xx. \*\* Please refer to table 2, ORV Routes and Areas, to determine when routes and areas are open to ORV use.

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# TABLE 5. SPECIES MANAGEMENT STRATEGIES FOR ACTION ALTERNATIVES

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## Definitions

scrapes, and other breeding or nest-building activities. Breeding behavior: Shorebird behavior that includes, but is not limited to, territorial behavior, courtship, mating, scraping, confirmed

Human disturbance: Any human activity that changes the contemporaneous behavior of one or more individuals of breeding, nesting foraging, or roosting colonial waterbirds, piping plover, Wilson's plover, or American oystercatcher. Behaviors indicating disturbance include

defensive displays; alarm calls; flushing or leaving a nest or feeding area; and diving or mobbing pedestrians, dogs, or vehicles

management actions in order to improve effectiveness. management actions in making progress toward the accomplishment of stated objectives. Periodic review could result in changes to the hurricane, or after a significant change in protected species status (e.g., listing or de-listing), in order to evaluate the effectiveness of Periodic review: A systematic review of data, habitat conditions, and other information to be conducted by NPS every 5 years, after a major

start of the shorebird breeding season to provide undisturbed habitat for bird breeding activities to occur. Pre-nesting closure: A kind of resource closure in which an area of suitable habitat is proactively closed to ORVs and pedestrians at the

research project authorized by NPS under a research permit. Research area: Area of suitable habitat set aside on a temporary or long-term basis (such as a study site or control plot) as part of a

bird and turtle nests, or vegetation from human disturbance. Resource closure: Any area posted as closed to all public entry in order to protect wildlife, such as breeding and foraging shorebirds and

designated SMAs are listed at the end of this table. SMAs will be re-evaluated and re-designated every 5 years, or after major hurricanes, as specimens, in more than 1 (i.e., 2 or more) of the past 5 years and is managed to reduce or minimize human disturbance. Currently multiple species of protected shorebirds during the breeding season or nonbreeding season, or concentrations of seabeach amaranth Species Management Area (SMA): Area of suitable habitat that has had concentrated and recurring use by multiple individuals and/or part of the periodic review process described at the end of this table.

Breeding Shorebird SMA: Area of suitable breeding habitat that has had multiple nests of individuals and/or multiple species of protected shorebirds, or concentrations of seabeach amaranth specimens, in more than 1 (i.e., 2 or more) of the past 5 years and is managed to areas have been designated as Breeding Shorebird SMAs: breeding sherebird species addressed by this plan, as part of the periodic review process described at the end of this table. The following minimize human disturbance during the breeding season. Focal species for Breeding Shorebird SMAs include piping plover, Wilson's plover, American oystercatcher, least tern, common tern, gull-billed tern, and black skimmer; however, there will be ongoing evaluation of the

Bodie Island Spit: 0.2 miles south of ramp 4 to inlet

- Ramp 27 to ramp 30
- New ramp 32.5 to ramp 34
- Approximately 1.7 miles south of ramp 38 to north boundary of Buxtor
- Cape Point: 0.2 miles south of ramp 44 to ramp 45

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- South Beach: Ramp 45 to new ramp 47
- Hatteras Inlet Spit: Ocean shoreline south of Pole Road to soundside of inlet
- North Ocracoke Spit: Inlet to 0.25 miles northeast of ramp 59
- 0.5 miles southwest of ramp 68 to 1.2 miles north of ramp 70
- South Point Ocracoke: 0.5 miles southwest of ramp 72 to inlet

Nonbreeding Shorebird SMA: Area of suitable nonbreeding habitat that has had concentrated foraging by migrating/wintering shorebirds in

TABLE 5. SPECIES MANAGEMENT STRATEGIES FOR ACTION ALTERNATIVES

season and designated non-ORV areas that are set aside to provide pedestrians with the opportunity for a natural beach experience. include portions of breeding SMAs that provide suitable nonbreeding habitat during periods of overlap between the breeding and migrating more than 1 (i.e., 2 or more) of the past 5 years and is managed to reduce human disturbance during the nonbreeding season. This may

with less monitoring to reduce the need for more frequent monitoring and fencing changes. Species Management 1 (SM1): An approach to shorebird protection during the breeding season that will use larger, longer-lasting buffers

Species Management 2 (SM2): An approach to shorebird protection during the breeding season that will use smaller buffers and will require more frequent monitoring and fencing changes when an ORV or pedestrian access corridor is open at designated locations during the

breeding season.

Pre-Nesting Surveys  By Mar 1: NPS staff will evaluate all potential breeding habitat and recommend on that evaluation.  Mar 15 to Jul 15: Pre-nesting closures will be surveyed three times per week.  Outside of pre-nesting closures, suitable habitat will be surveyed twice per week, increasing to three times per week once birds are present.  Colonial Waterbirds, including Least Terns, Common Terns, Gull-Billed Terns, and Black Skimmers  Mar 15 to Jul 15: Pre-nesting closures will be surveyed three times per week.  Outside of pre-nesting closures, suitable habitat will be surveyed twice per week, increasing to three times per week once breeding pairs are present.  Colonial Waterbirds, including Least Terns, Common Terns, Gull-Billed Terns, and Black Skimmers  May 1 to Jul 15: Pre-nesting closures will be surveyed three times per week.  Outside of pre-nesting closures, suitable habitat will be surveyed twice per week, increasing to three times per week once breeding pairs are present.			Shorebirds	
By Mar 1: NPS staff will evaluate all potential breeding habitat and recommend piping plover pre-nesting closures based on that evaluation.  Mar 15 to Jul 15: Pre-nesting closures will be surveyed three times per week.  Outside of pre-nesting closures will be surveyed twice per week, increasing to three times per week once birds are present.	Management Activity	Piping Plover	American Oystercatcher and Wilson's Plover	Colonial Waterbirds, including Least Terns, Common Terns, Gull-Billed Terns, and Black Skimmers
			Mar 15 to Jul 15: Pre-nesting closures will be surveyed three times per week.  Outside of pre-nesting closures, suitable habitat will be surveyed twice per week, increasing to three times per week once breeding pairs are present.	May 1 to Jul 15: Pre-nesting closures will be surveyed three times per week.  Outside of pre-nesting closures, suitable habitat will be surveyed twice per week, increasing to three times per week once breeding pairs are present.

are prohibited within all resource closures, including pre-nesting closures. Pre-nesting closures will not be modified in cases where the beach erodes into the buffered habitat. ORVs, pedestrians, and pets in this table) if no breeding activity is seen in the area by **Jul 31**, or 2 weeks after all chicks have fledged, whichever comes later. nesting closures will be adjusted to the configuration of the Nonbreeding Shorebird SMAs for the respective sites (as described later waterbirds. NPS will determine the configuration of specific pre-nesting closures based on an annual habitat assessment. Presites involving piping plover, Wilson's plover, and/or American oystercatcher; and by Apr 15 at sites involving only colonial

SM1: SMAs designated as SM1 would not allow ORV or pedestrian access when pre-nesting closures are in effect

standard buffers (please refer to table 6, Shorebird / Waterbird Buffer Summary) will apply, which depending upon the circumstances pedestrian access corridor (where ORV use is not permitted) would be established. Upon the first observation of breeding activity, the Once pre-nesting closures are implemented at these sites, a narrow ORV access corridor (where ORV use is permitted) or a SM2: The Bodie Island Spit, Cape Point, and South Point Ocracoke SMAs are designated as SM2 in action alternatives C, E, and F.

# TABLE 5. SPECIES MANAGEMENT STRATEGIES FOR ACTION ALTERNATIVES

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Nest Surveys:	Courtship/Mating Buffers:	Courtship/Mating Surveys:
A walk-through will be conducted to look for nests every 3 days.  Once nests are found, nests will be observed daily from a distance that does not disturb the birds, based on professional judgment.  Nests will be approached once per week to observe and record  Add own "All Species" Sextern the conducted once per week to observe and record the conducted once per week to observe and record the conducted once per week to observe and record the conducted once per week to observe and record the conducted once per week to observe and record the conducted once per week to observe and record the conducted once per week to observe and record the conducted once per week to observe and record the conducted to look for nests every 3 days.	SM1/SM2: If breeding activity is observed outside of an existing closure, a buffer will be established or expanded to ensure a 75 m buffer for the observed birds.  Buffers will be increased in 50 m increments if human disturbance* occurs.  Outside of pre-nesting areas, closures will be removed if no breeding activity is observed for a 2-week period, or when associated breeding activity has concluded.  *Buffers are not expanded for incidental disturbance associated with required NPS protected species monitoring.	access corridor would follow the ocean shoreline from ramp 44 south to the point, then west approximately 0.2 mi along the ocean shoreline. The South Point Ocracoke access corridor would follow the ocean shoreline south from ramp 72 to the inlet. Exact configuration of the corridor would be determined by NPS staff based on the annual habitat assessment. The ORV access corridor SM2 sites will generally be no more than 50 m wide above the high tide line (alternative E may include a designated pass-through where no stopping or recreation would be permitted in order to minimize disturbance). An SM2 pedestrian access corridor would generally be below the high tide line and would in no case be more than 10 m above the high tide line. Pets, as well as kite flying, the pre-nesting closure is in effect.  Pre-nesting closures will be surveyed three times per week. Outside of pre-nesting closures, suitable habitat will be surveyed three times per week once breeding pairs are present.
A walk-through will be conducted to look for nests when observations suggest a nest is present.  SM1: Nests will be observed at least three times per week from a distance that does not disturb the birds, based on professional judgment. For incubating birds that cannot be observed from a distance, nests will the observed from a distance, nests will the observed from a distance.	SM1: If breeding activity is observed outside of an existing closure, a buffer will be established or expanded to ensure a 300 m buffer for the observed birds.  SM2: If breeding activity is observed outside of an existing closure, a buffer will be established or expanded to ensure a 150 m buffer for the observed birds.  Buffers will be increased in 50 m increments if human disturbance occurs.  All: Outside of pre-nesting areas, closures will be removed if no breeding activity is observed for a 2-week period, or when associated breeding activity has concluded.	access corridor would follow the ocean shoreline from ramp 44 south to the point, shoreline. The South Point Ocracoke access corridor would follow the ocean shor configuration of the corridor would be determined by NPS staff based on the annu SM2 sites will generally be no more than 50 m wide above the high tide line (altern where no stopping or recreation would be permitted in order to minimize disturban generally be below the high tide line and would in no case be more than 10 m abound Frisbee tossing, and similar activities, will be prohibited in the access corridors the pre-nesting closure is in effect.  Pre-nesting closures will be surveyed three times per week. Outside of pre-nesting times per week once breeding pairs are present.
A walk-through will be conducted to look for nests every 3 days.  Once nests are found, nests will be observed daily from a distance that does not disturb the birds, based on professional judgment.  Nests will be approached once per week to observe and record per week to observe and record observed and record observed and record observed at least three times per week from a distance on professional judgment. For incubating birds that cannot be observed from a distance, nests will be observed from a distance, colonies  Aux "Au Species" Text Tycum (1) best Buffers Santa Quaye were from a distance, colonies  Colonies will be surveyed on foot during the peak nesting period, which generally is during the peak nesting period, which generally is during the peak nesting period, which generally is during the look for nests will be observed at least three times per week from a distance that does not disturb the birds, based on professional judgment. For incubating birds that cannot be observed from a distance, colonies  While All Species to look for nests when observations suggest a nest is present.  SM1: Colonies will be surveyed on foot during the peak nesting period, which generally is during the last week of May and the first week of June, but could be later, especially for black skimmers.  SM1: Colonies will be observed at least three times per week from a distance that does not disturb the birds. For incubating birds that cannot be observed from a distance, colonies  Which are found, nests will be conducted to look for nests when observed at least three times per week from a distance that does not disturb the birds. Sufficient three times per week from a distance that does not disturb the birds. Sufficient three times period, which generally is during the last week of May and the first week of June, but could be later, especially for black skimmers.  SM1: Colonies will be abter, especially for black skimmers.  SM1: Colonies will be observed at least three times period, which generally is during the last week of May	SM1: If scraping is observed outside an existing closure, a buffer will be established or expanded to ensure a 300 m buffer for the observed birds.  SM2: If scraping is observed outside a resource closure, a 100 m buffer will be established around the scrape location for least terns (if only least terns are present), or a 200 m buffer when other colonial waterbird species are present.  Buffers will be increased in 50 m increments if human disturbance occurs.  All: Buffer establishment will be based on the location of scrape(s) and not location of copulation or "fish flashing."  Outside of pre-nesting areas, buffers will be removed if no breeding activity is observed for a 2-week period, or when associated breeding activity has concluded.	access corridor would follow the ocean shoreline from ramp 44 south to the point, then west approximately 0.2 mi along the ocean shoreline. The South Point Ocracoke access corridor would follow the ocean shoreline south from ramp 72 to the inlet. Exact configuration of the corridor would be determined by NPS staff based on the annual habitat assessment. The ORV access corridor at SM2 sites will generally be no more than 50 m wide above the high tide line (alternative E may include a designated pass-through zone where no stopping or recreation would be permitted in order to minimize disturbance). An SM2 pedestrian access corridor would generally be below the high tide line and would in no case be more than 10 m above the high tide line. Pets, as well as kite flying, ball and Frisbee tossing, and similar activities, will be prohibited in the access corridors or pass-through zones (in alternative E only) while the pre-nesting closure is in effect.  Pre-nesting closures will be surveyed three times per week. Outside of pre-nesting closures, suitable habitat will be surveyed three times per week once breeding pairs are present.

TABLE 5. SPECIES MANAGEMENT STRATEGIES FOR ACTION ALTERNATIVES

	data.	be checked on a weekly basis (or as staff is available).  SM2: Nests will be observed daily from a distance that does not disturb the birds, based on professional judgment. For incubating birds that cannot be observed from a distance, nests will be checked every 3 days.	will be checked on a weekly basis.  SM2: Nests will be observed daily from a distance that does not disturb the birds, based on professional judgment. For incubating birds that cannot be observed from a distance, colonies will be checked every 3 days.
Nest Buffers:	All species: The park retains the disc unprotected areas, a buffer will be est by such areas within designated ORV provided that buffers adequate to prev of paved roads, parking lots, campgro to the maximum extent possible while accommodate ORV ramp access. Buf of pre-nesting areas, buffers will be refledged, whichever comes later.	All species: The park retains the discretion to expand nest buffers under SM1 and SM2 depending on staffing and bird behaunprotected areas, a buffer will be established immediately when a nest with egg(s) is found. Prior to hatching, vehicles may by such areas within designated ORV access corridors that have been established along the outside edge of nesting habitat, provided that buffers adequate to prevent human disturbance are maintained. When nests or chicks occur in the immediate v of paved roads, parking lots, campgrounds, buildings, and other facilities, NPS retains the discretion to provide resource prot to the maximum extent possible while still allowing those facilities to remain operational. NPS shall not reduce buffers to accommodate ORV ramp access. Buffers will remain in place for 2 weeks after a nest is lost to determine if pair will re-nest. (of pre-nesting areas, buffers will be removed if no breeding activity is seen in the area for 2 weeks, or 2 weeks after all chicks fledged, whichever comes later.	All species: The park retains the discretion to expand nest buffers under SM1 and SM2 depending on staffing and bird behavior. In unprotected areas, a buffer will be established immediately when a nest with egg(s) is found. Prior to hatching, vehicles may pass by such areas within designated ORV access corridors that have been established along the outside edge of nesting habitat, provided that buffers adequate to prevent human disturbance are maintained. When nests or chicks occur in the immediate vicinity of paved roads, parking lots, campgrounds, buildings, and other facilities, NPS retains the discretion to provide resource protection to the maximum extent possible while still allowing those facilities to remain operational. NPS shall not reduce buffers to accommodate ORV ramp access. Buffers will remain in place for 2 weeks after a nest is lost to determine if pair will re-nest. Outside of pre-nesting areas, buffers will be removed if no breeding activity is seen in the area for 2 weeks, or 2 weeks after all chicks have fledged, whichever comes later.
	SM1 and SM2: A 75 m buffer/ closure will be established around	SM1: A 300 m buffer/closure will be established around nest(s).	<b>SM1:</b> Buffers will be the same as for courtship and mating: 300 m.
	in 50 m increments if human disturbance occurs.	SM2: A 150 m buffer/closure will be established around nest(s). Buffers will be increased in 50 m increments if	<b>SM2:</b> A 100 m buffer/closure will be established around a least tern nest or colony. A 200 m buffer/closure will be established around the
	zone, a full-beach closure will result.	human disturbance occurs.  If a buffer falls within the intertidal zone, a full-beach closure will result.	nest or colony if any common terns, gull-billed terns, or black skimmers are present. Buffers will be increased in 50 m increments if human
		For nests that occur inside a pre-nesting closure <b>and</b> require a buffer expansion of the pre-nesting area, the buffer	If a buffer falls within the intertidal zone, a full-beach closure will result.
		expansion may be removed to the original pre-nesting closure after	For a colony that occurs inside a pre-nesting closure <b>and</b> requires a buffer expansion of the
		nest is lost to overwash or predation.	re-nesting area, the outrer expansion may be removed after 2 weeks with no breeding activity if the nest is lost to overwash or predation.
Adult Foraging Surveys and Buffer:	Suitable breeding habitat will be surveyed three times per week to	No additional buffers/closures.	No additional buffers/closures.
	monitor for adults with an		
	foraging outside of an existing		

TABLE 5. SPECIES MANAGEMENT STRATEGIES FOR ACTION ALTERNATIVES

Unfledged Chick Buffers:	Unfledged Chicks Surveys:	
SM1: A minimum 1,000 m buffer will be established on either side of the nest when unfledged chicks are present.  SM2: A 1,000 m ORV buffer and, where harms and disturbance can be minimized, a 300 m pedestrian buffer will be established on either	SM1: Brood will be observed once daily.  SM2: Brood will be observed at least 1 hour each in a.m. and p.m. daily. Monitor(s) will be present during periods of ORV or pedestrian access.  All: Observations will end once chicks have fledged. Chicks are considered fledged at 35 days of age or when observed in sustained flight of at least 15 m.	closure. If birds are observed foraging outside an existing closure, the site will be surveyed daily. If birds are observed foraging outside of a closure on two consecutive surveys, the buffer will be established or expanded using flexible increments based on observed bird behavior to include the foraging site. These closures are intended to provide foraging opportunities close to breeding sites. The closure will be removed if no foraging is observed for a 2-week period during the breeding season, or when associated breeding activity has concluded.
SM1: A 300 m buffer will be established around the nest when unfledged chicks are present. If chicks move outside of the buffer, it will be adjusted to include an additional 200 m from the chicks' location. Closures will be removed 2 weeks after fledging.  SM2: A 200 m buffer will be established	sm1: Brood will be observed every other day.  sm2: Brood will-be observed once daily for at least ½ hour.  All: Observations will end once the chicks have fledged. American oystercatcher chicks are considered fledged if they have been observed to be proficient in flying or observed in sustained flight of at least 30 m.  Wilson's plover chicks are considered fledged if they are observed in sustained flight of at least 15 m.	
SM1: A 300 m buffer will be established around nests or colony. If chicks move outside of the buffer, it will be adjusted to provide a standard buffer of 200 m from the chicks' location.  SM2: A 200 m buffer will be established around the chicks' location. Buffers will be adjusted as needed when chicks are mobile.	SM1: Colony will be observed every other day.  SM2: Colony will be observed daily.  All: Colonies will be surveyed on foot during the peak hatching period, which should fall 21 days after initial nest observations.  A follow-up survey (perimeter count) should be conducted during the peak fledge, which should fall 20 days after hatch counts.  Observations will end after no unfledged chicks have been observed on three consecutive surveys.	realistic given mides?

TABLE 5. SPECIES MANAGEMENT STRATEGIES FOR ACTION ALTERNATIVES

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Breeding Data Collection/Reporting		
The following data will be recorded:  Date, time, location of breeding pair, courtship behavior, foraging, scrape, nest, or brood observations; identity of observer.  Pair, nest, and brood identification number.  Number, location, and status of territorial pairs, nesting pairs, nests, eggs, and chicks. GPS will be used to document nest location.  Status of eggs/nest and presence/ behavior of adults (laying, incubating, lost, abandoned,	All: The buffer should extend 1,000 m for ORVs (or 300 m for pedestrians under SM2) on each side of a line drawn through the nest site and perpendicular to the long axis of the beach. The resulting area (2,000 m wide for ORVs or 600 m wide for pedestrians) of protected habitat for piping plover chicks would extend from the oceanside low water line to the soundside low water line or to the farthest extent of dune habitat if no soundside intertidal habitat exists.  All Species: Vehicles and/or pedestri- inaccessible to chicks because of stee outside of the pre-nesting area will be closed for an additional 2 weeks).	side of the nest when unfledged chicks are present. Buffers move with chicks.
The following data will be recorded:  Date, time, and location of breeding pair, scrape, nest, or brood observations; identity of observer.  Pair number; color band (if applicable).  Number, location, and status of pairs, scrapes, nests, eggs, and chicks. Use GPS to document nest location.  Status of eggs/nest and presence/ behavior of adults (laying, incubating, lost, abandoned, hatching, hatched).  Status of chicks (age, behavior, fledge status) and presence/behavior of adults.	to the dune (or sound shoreline, if accessible). Buffers will be adjusted/increased as needed when chicks are mobile. Buffers move with chicks.  Buffers will remain until Wilson's plover chicks have fledged or 2 weeks after American oystercatcher chicks have fledged (observed flight of 30 meters); a pedestrian corridor may be established prior to the end of the 2-week waiting period for permitting access to the points and spits.  It is accessed as needed when chicks have mobile allowed to pass through portions teep topography, dense vegetation, or other nable reopened after chicks fledge (except for Ambeuros can be removed after Jul 31, or 2 weel weel with the points and spits.	around the unfledged chicks' location. Foraging and roosting habitat will be included from the ocean (low water line)
The following data will be recorded:  Date, time, location, and species of nest/colony observations; identity of observer.  Number and location of birds, nests, chicks, and fledglings. GPS will be used to document colony location.  Status of colony and presence/behavior of adults (laying, incubating, lost, abandoned).  Status of chicks (behavior, fledge status) and presence/behavior of adults.  Indications of potential predators, humans, pets, or ORVs within posted areas.	to the dune (or sound shoreline, if 1,000 m for ORVs (or 300 m for pedestrians under SM2) on each side of a line drawn through the nest side of a line drawn through the nest side and perpendicular to the long area axis of the beach. The resulting area will be remain until Wilson's plover chicks have fledged or 2 weeks after American oystercatcher chicks have fledged (observed flight of 30 meters); a pedestrians) of protected habitat for piping plover chicks would habitat from the oceanside low water line or to the farthest extent of dune (or sounds shoreline, if increased as needed when chicks are mobile. Buffers will be ready with chicks. Buffers will the adjusted increased as needed when chicks are mobile. Buffers will be ready with chicks are mobile. Buffers will be ready with chicks. Buffers will remain until Wilson's plover chicks have fledged or 2 weeks after American oystercatcher chicks have fledged (observed flight of 30 meters); a period for permitting access to the points and spits.  All Species: Vehicles and/or pedestrians may be allowed to pass through portions of the buffers or closures that are considered naccessible to chicks because of steep topography, dense vegetation, or other naturally occurring obstacles. Access corridors outside of the pre-nesting area will be reopened after chicks fledge (except for American oystercatchers, where the area will remain closed for an additional 2 weeks). The provious of the points and spits.  The provious flexible in the chicks are mobile. Buffers will be educated as needed when chicks are adjusted. Increased as needed when chicks are mobile. Buffers will be educated as needed when chicks are mobile. Buffers will be flexible and prior to the end of the 2-week waiting period for permitting access to the points and spits.	

TABLE 5. SPECIES MANAGEMENT STRATEGIES FOR ACTION ALTERNATIVES

		Nonbreeding Shorebird SMAs	Nonbreeding Survey					
Ocean Shoreline Areas: In addition to establish non-ORV areas along the oce for migrating and wintering shorebirds. buffer of at least 50 m above the high ti such as to provide pedestrians with opposition with migrating/wintering shorebird use with migrating/wintering shorebird use kiteboarding, paddleboarding, photogram and windsurfing. If resource protection	Points and Spits: An annual habitat and closures will be established at the point of the past 5 years, the presence of birthe annual survey, Actual locations of success to the interspectation of the habitat assessment.	All Species: Nonbreeding Shorebird SMAs will be Seashore. Such closures will be installed no later the prohibited within Nonbreeding Shorebird SMAs.	NPS will monitor presence, abundance protocol. Survey sites will include all No (ISS) data. The following information w number of birds observed; band combi majority of birds in the flock (foraging, r seen; and number of pedestrians, pets	<ul> <li>Reproductive rate (chicks fledged per breeding pair).</li> </ul>	Indications of cause of nest or chick loss, if apparent.	<ul> <li>Indications of potential predators, humans, pets, or ORVs within posted areas</li> </ul>	fledge status) and presence/behavior of adults.	hatching, hatched).  Status of chicks (age, behavior,
Ocean Shoreline Areas: In addition to the nonbreeding resource closures at the points and spits described above, NPS will establish non-ORV areas along the ocean shoreline that will provide relatively less-disturbed foraging, resting, and roosting a for migrating and wintering shorebirds. These may include wider sections of beach with an upper-beach ORV corridor that have buffer of at least 50 m above the high tide line, and/or sections of beach that have been designated as non-ORV for other resuch as to provide pedestrians with opportunities for a natural beach experience. The following activities are generally composited as to provide pedestrians with opportunities for a natural beach experience. The following activities are generally compowith migrating/wintering shorebird use of these areas: pedestrian access for fishing, beach walking, bird-watching, kayaking, kiteboarding, paddleboarding, photography, picnicking, sailing, shelling, stargazing, sunbathing, surfing, swimming, wildlife very and windsurfing. If resource protection staff determines that any single activity or collection of activities is negatively impactive.	Points and Spits: An annual habitat assessment will be conducted after all birds he closures will be established at the points and spits based on habitat used by winter of the past 5 years, the presence of birds at the beginning of the migratory season, the annual survey, actual locations of suitable foraging and roosting habitat may chaccess to the interspectives, where permitted, will be maintained by a corridor to habitat assessment.	MAs will be established for migrating/wintering no later than when breeding season closured to SMAs.	NPS will monitor presence, abundance, and behavior of migrating and wintering shorebirds from July through May using the protocol. Survey sites will include all Nonbreeding Shorebird SMAs. NPS will obtain data similar to International Shorebird SI (ISS) data. The following information will be recorded: Date, time, and location of observations; identity of observer; species number of birds observed; band combination of any banded birds; weather variables and tidal stage; habitat; behavior of the majority of birds in the flock (foraging, resting, disturbed [source will be recorded], other); site management in effect where biseen; and number of pedestrians, pets, ORVs and other potential disturbances.			loss, if apparent.  Reproductive rate (chicks fledged per breeding pair)	- Indications of cause of nest or chick	<ul> <li>Indications of potential predators, humans, pets, or ORVs within posted</li> </ul>
Ocean Shoreline Areas: In addition to the nonbreeding resource closures at the points and spits described above, NPS will establish non-ORV areas along the ocean shoreline that will provide relatively less-disturbed foraging, resting, and roosting areas for migrating and wintering shorebirds. These may include wider sections of beach with an upper-beach ORV corridor that has a buffer of at least 50 m above the high tide line, and/or sections of beach that have been designated as non-ORV for other reasons, such as to provide pedestrians with opportunities for a natural beach experience. The following activities are generally compatible with migrating/wintering shorebird use of these areas: pedestrian access for fishing, beach walking, bird-watching, kayaking, kiteboarding, paddleboarding, photography, picnicking, sailing, shelling, stargazing, sunbathing, surfing, swimming, wildlife viewing, and windsurfing. If resource protection staff determines that any single activity or collection of activities is negatively impacting	edged from the area. Nor edged from the area. Nor sing plovers in more than uitable habitat types base periodically due to natura ermined by NPS staff base	<u>π</u> Θ Ω	NPS will monitor presence, abundance, and behavior of migrating and wintering shorebirds from July through May using the SECN protocol. Survey sites will include all Nonbreeding Shorebird SMAs. NPS will obtain data similar to International Shorebird Survey protocol. Survey sites will include all Nonbreeding Shorebird SMAs. NPS will obtain data similar to International Shorebird Survey (ISS) data. The following information will be recorded: Date, time, and location of observations; identity of observer; species and number of birds observed; band combination of any banded birds; weather variables and tidal stage; habitat, behavior of the majority of birds in the flock (foraging, resting, disturbed [source will be recorded], other); site management in effect where birds are seen; and number of pedestrians, pets, ORVs and other potential disturbances.					apparent.
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This may include non-only areas, as well as areas closely to all recreational and,

shorebird use of a specific location, NPS may implement additional restrictions on compatible activities. The location(s) of all ocean shoreling Nonbreeding Shorebird SMAs will be subject to periodic review.

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## TABLE 5. SPECIES MANAGEMENT STRATEGIES FOR ACTION ALTERNATIVES

## Adaptive Management Initiatives

and improve the measures identified above. The following adaptive management initiatives related to shorebirds or shorebird havitat have been identified: NPS would take an adaptive management approach to the species management program in order to evaluate the effectivenes

- Piping plover chick fledge rate: An adaptive management study will be developed to evaluate the short-term performance target of desired results. what management actions (e.g., frequency of monitoring; size or timing of buffers) need to be changed in order to achieve the determine what productivity rate is realistically attainable and would provide for a growing population at the Seashore over the long 1.0 chick fledged per breeding pair, as well as the 1.5 chicks fledged per pair productivity rate identified in the recovery plan, to term. If the actual productivity rate is not sufficient to achieve the desired future conditions for piping plover, it will be determined
- during daylight hours. Piping plover chick buffer distance: As stated in the piping plover recovery plan, where several years of data document that piping plovers on a particular site feed in only certain habitat types, USFWS may provide written concurrence that vehicles pose no danger have hatched, would be adequate to prevent disturbance of piping plover chicks by ORVs and/or pedestrians using adjacent areas ORV or pedestrian buffer distance (i.e., less than that stated in this plan) after a certain time period, such as 2 weeks after chicks to plovers in other specified habitats on that site. An adaptive management study will be geveloped to evaluate whether a reduced
- Pass-through buffers during the incubation period: An adaptive management study or studies will be developed to evaluate oystercatcher, or colonial waterbird nest sites if all other recreation (e.g., pedestrians, pets) is prohibited within the reduced buffer whether a reduced buffer distance is adequate to prevent disturbance caused by ORVs driving past piping plover, American line past piping plover, American oystercatcher, or colonial waterbird nest sites. and to determine whether a reduced buffer is adequate to prevent disturbance caused by pedestrians walking below the high tide
- Colonial waterbird social attraction: As a pilot project, an adaptive management study will be developed to evaluate the effectiveness of using colonial waterbird decoys and audio-attraction to establish or re-establish colonial waterbird colonies in
- **Vegetation management:** As a pilot project, an adaptive management study will be developed to evaluate methods for managing vegetation and improving habitat and wildlife access to available habitat in the Cape Point dredge pond area. The applicability and potential effectiveness of such measures at other locations will be determined.
- Habitat management: As a pilot project, an adaptive management study (will be developed to evaluate methods of improving sand or water at the site. The applicability and potential effectiveness of such measures at other locations will be determined. shorebird nesting and/or foraging habitat at one location in the Seashore by applying dredge material or by moving/manipulating
- Enhanced predator management: An adaptive management study will be developed to evaluate whether predator management whether enhanced measures (such as managing avian predators or ghost crabs) would be beneficial and effective, or are necessary actions to be implemented under the (proposed) predator control program for protected species management are effective as is, or to achieve the desired future conditions for species protection.
- Change in protected species status: If a significant change were to occur in the status of protected shorebird species (e.g., listing or de-listing), as part of the periodic review process described at the end of this table there would be a systematic re-evaluation of the related species management actions identified in this plan to determine what changes in management, if any, are appropriate

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TABLE 5. SPECIES MANAGEMENT STRATEGIES FOR ACTION ALTERNATIVES

disposition of animal/carcass. Samples and photos will be collected when necessary. Necropsies will be conducted when possible.
All nests will be examined after hatching to determine productivity rates. Nests will be excavated in the evening, a minimum of 72 hours after the hatching event. In cases where hatching events or dates are unknown, nest cavities will be unearthed 80–90 days after the lay date. Any live hatchlings found during excavations will be released at dusk or after dark on the same day as excavation.
<ul> <li>Recessary protective measures for nests and natchings.</li> <li>Information regarding any post-hatching nest excavation and analysis.</li> </ul>
Sea Turtle Data At a minimum, the NCWRC handbook will be followed and the following will be recorded: Collection/Reporting - Date, location, and species of nests and false crawls; identity of observer.
Once a light filter fence is installed, nests will be monitored daily for signs of hatchling emergence.
high visitation, from that date until Nov 15.  Monitoring will also occur for post-hatchling washbacks during periods when there are large quantities of seaweed washed ashore or following severe storm events. Nest observations will stop when all nests have hatched or excavation indicates that unhatched nests are not viable.
Daily surveys will be conducted by ATV/UTV and possibly ORV for crawls and nests on all beaches, generally in the morning before onset of public ORV use. Daily surveys for nests end Sep 15, or 2 weeks after the last sea turtle nest or crawl is found, whichever is later. Periodic monitoring (e.g., every 2 to 3 days) for unknown nesting and emerging batchlings will continue especially in areas of
Sea turtle patrol will begin on May 1, unless leatherback nests have been reported within the state, in which case the Seashore will follow the direction of NCWRC. Patrol will continue until Sep 15, or 2 weeks after the last sea turtle nest or crawl is found, whichever is later.
Management Activity Sea Turtles
Adaptive Management and Management changes, such changes would be evaluated and considered for implementation as part of the 5-year periodic review process described at the end of this table.
Research In addition to the species management procedures outlined in this table, through the issuance of a research permit NPS may authorize qualified researchers associated with recognized academic or research institutions to conduct additional scientific research on the respective species that will add to the existing knowledge of shorebird species or improve resource protection within the Seashore. Establishment of research aleas may be authorized under such a permit.

TABLE 5. SPECIES MANAGEMENT STRATEGIES FOR ACTION ALTERNATIVES

Necropsies of strande	Strandings The Seashore will respond to see	Nest Relocation  By Apr 15, areas deemed unsuitable and descriptions of these areas will when a nest is found, designated N identified in the NCWRC handbook. If it is determined that the nest will n 10 × 10 m in size. Closure size may If a nest is threatened by an immine	Nest Watch Program  A cadre of trained vo emergence success in predation, and human it may be necessary the watching the nests the state of trained volumes.	Approximately 50–55 type and level of use  1. Vehicle-free areas  2. Village beaches or  3. Areas with ORV tra On the landward from the ne reflective arrows.  Light-filtering fence woriented toward the voriented toward
Necropsies of surdined unless will be dofte when possible.	The Seashore will respond to sea turtle strandings in a timely manner, and will forward or report all information, pictures, and signs of human interaction to NCWRC.	By Apr 15, areas deemed unsuitable for turtle nests (e.g., those with a high erosion rate) will be identified by Seashore staff. Maps and descriptions of these areas will be analyzed by NCWRC prior to nesting season.  When a nest is found, designated NPS staff members will assess the need for nest relocation and follow relocation guidance identified in the NCWRC handbook.  If it is determined that the nest will not be relocated, it will be immediately protected with symbolic fencing and signs approximately 10 × 10 m in size. Closure size may vary at the discretion of NPS staff depending on the environmental factors at a nest location.  If a nest is threatened by an imminent storm event, NPS will consult with NCWRC to determine appropriate action.	A cadre of trained volunteers will be established to watch nests that have reached their hatch windows in order to monitor hatchling emergence success and success reaching the water, and to provide for the minimization of negative impacts from artificial lighting, predation, and human disturbance. Depending on the number of nests that may be ready to hatch and the availability of volunteers, it may be necessary for NPS turtle staff to prioritize which nests are watched on any particular night. Priority will be given to watching the nests that are most likely to be negatively impacted by manageable factors.	Approximately 50–55 days into incubation, closures will be expanded to the surf line. The width of the closure will be based on the type and level of use in the area of the beach where the nest was laid:  1. Vehicle-free areas with little or no pedestrian traffic—25 m wide (total).  2. Village beaches or other areas with high levels of pedestrian and other non-ORV use—50 m wide (total).  3. Areas with ORV traffic—105 m wide (total).  On the landward side of the nest, the closed area will be expanded to 15 m from the nest where possible, but no less than 10 m landward from the nest. If appropriate, traffic detours behind the nest area will be established and clearly marked with signs and reflective arrows.  Light-filtering fence will be used in a U-shaped configuration around nests nearing their hatch dates, with the open face of the U criented toward the water, to block light pollution from the villages and vehicles operating on the beach after dark.  Once the buffer expansion is implemented, NPS staff will use takes or a steel mat attached to an ATV to smooth any vehicle tracks between the nest and the water, so that tracks do not impede hatchlings from reaching the water.  If multiple nests are located near each other (with not be removed until all nests within 14 days of each other), then closures will encompass all nests in the area and will not be removed until all nests within the closure have hatched.

TABLE 5. SPECIES MANAGEMENT STRATEGIES FOR ACTION ALTERNATIVES

In addition to the species management procedures outlined in this table, through the issuance of a research permit, NPS may authorize qualified researchers associated with recognized academic or research institutions to conduct additional scientific research on turtle species that will add to the existing knowledge of sea turtles or improve resource protection within the Seashore.  Establishment of research areas could be authorized under such a permit.
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# TABLE 5. SPECIES MANAGEMENT STRATEGIES FOR ACTION ALTERNATIVES

	chicks.
	Observations will end when all known seabeach amaranth plants have died back.
Data Collection	The location of all individual plants or plant clusters will be recorded using GPS. It will be noted whether the plant is located in an area open or closed to recreational use.
Buffers/Closures	Prior to Jun 1, suitable seabeach amaranth habitat will be identified at points and spits where plants have observed within the last 5 years and delineated with symbolic fencing if such areas are not already protected within existing shorebird resource closures.
	If a plant/seedling is found outside of an existing closure, symbolic fencing with signage will be erected creating a $10 \times 10$ m buffer around the plant. If plants are located next to one another, the area will be expanded to create one enclosure protecting several plants.
	If a seabeach amaranth plant is found during the survey prior to reopening a bird closure to ORV and pedestrian use, the Seashore will protect the plant as described above and reopen the portions of the bird closure where seabeach amaranth plants do not exist.
À	If seabeach amaranth is not present by Sep 1, seabeach amaranth buffers will be removed. If seabeach amaranth is present, buffers will remain until after the plants have senesced, which is typically around Dec 1.

## All Species

## Periodic Review the

hurricane, or if necessitated by a significant change in protected species status (e.g., listing or de-listing), in order to evaluate the effectiveness of management actions in making progress toward the accomplishment of stated objectives. Periodic review could result in changes to the management actions in order to improve effectiveness. A systematic review of data, annual reports, and other information would be conducted by NPS every 5 years, after a major

Management Initiation, Kedondy, and

## Table 6. Shorebird / Waterbird Buffer\*\* Summary Table

thoptwo

Species	Breeding Behavior/Nest Buffer	Unfledged Chicks
	SM1/SM2	SM1/SM2
Piping plover	75 m / 75 m	1,000 m / 1,000 m; 300m (pedestrian only)
Wilson's plover	300 m / 150 m	300 m / 200 m
American oystercatcher	300 m / 150 m	300 m / 200 m

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TABLE 5. SPECIES MANAGEMENT STRATEGIES FOR ACTION ALTERNATIVES

		species
300 m / 200 m	300 m / 200 m	Other colonial waterbird
300 m / 200 m	300 m / 100 m	Least tern

<sup>\*\*</sup> Buffers apply to both ORVs and pedestrians, unless otherwise specified.