Appendix G

Public Coordination

U.S. Army Corps
of Engineers

Galveston District
Southwestern Division

Appendix G

Public Coordination

Supporting Documentation

for the
Coastal Texas Protection and Restoration Study
Integrated Feasibility Report and
Environmental Impact Statement

October 2018

Appendix G-1

Notice of Intent, March 31, 2016

ACTION: Notice of Intent.

SUMMARY: The Los Angeles District of the U.S. Army Corps of Engineers (Corps) and the City of Long Beach intend to prepare a draft Environmental Impact Statement/Environmental Impact Report (EIS/EIR) for the East San Pedro Bay Ecosystem Restoration Feasibility Study, Los Angeles County, California. The components of the EIS/EIR will be contained in an Integrated Feasibility Report (IFR) that also includes a Feasibility Report.

DATES: Two public scoping meetings will be held on April 7, 2016, at 2:00 p.m. and at 6:00 p.m. Submit written comments concerning this notice no later than May 7, 2016.

ADDRESSES: The location for the scoping meetings is: Bixby Park Community Center, 130 Cherry Avenue, Long Beach, CA 90802.

Mail written comments, suggestions, and/or request to be placed on the mailing list for announcements to: Naeem A. Siddiqui, U.S. Army Corps of Engineers, Los Angeles District, CESPL–PDR–N, 915 Wilshire Blvd., Los Angeles, CA 90017–3401 or by email to: *Naeem.A.Siddiqui@usace.army.mil*.

FOR FURTHER INFORMATION CONTACT: Naeem A. Siddiqui, Project Environmental Coordinator, 213–452–3852, *Naeem.A.Siddiqui@usace.army.mil.*

SUPPLEMENTARY INFORMATION: The Feasibility Study is being conducted as a partial response to Senate Resolution, dated June 25, 1969, reading in part:

Resolved by the Committee on Public Works of the United States Senate, that the Board of Engineers for Rivers and Harbors, created under Section 3 of the River and Harbor Act, approved June 13, 1902, be, and is hereby requested to review the report of the Chief of Engineers on the Los Angeles and San Gabriel Rivers and Ballona Creek, California, published as House Document Numbered 838, Seventy-sixth Congress, and other pertinent reports, with a view to determining whether any modifications contained herein are advisable at the present time, in the resources in the Los Angeles County Drainage Area. . . .

The study area is located offshore of the City of Long Beach, California, in the easternmost part of San Pedro Bay. It includes the area between the Long Beach shoreline, the Long Beach Breakwater and the Los Angeles River estuary.

The Corps is the lead agency in preparing the EIS in accordance with the National Environmental Policy Act (NEPA). The City of Long Beach is the non-Federal sponsor of the Feasibility Study and the lead agency in preparing the EIR in accordance with the California Environmental Quality Act. The Corps and City of Long Beach have agreed to jointly prepare an IFR including EIS/EIR to optimize efficiency and avoid duplication.

1. Description. The study will evaluate opportunities to restore aquatic habitat such as kelp, rocky reef, coastal wetlands and other types of sufficient quality and quantity to support diverse resident and migratory species, and to improve water circulation sufficient to support and sustain aquatic habitat, within East San Pedro Bay, California. Recreational opportunities will also be explored, although the primary objective will be ecosystem restoration.

The Corps completed a Reconnaissance Report in August 2010 which identified a federal interest in addressing issues such as loss of historic coastal wetlands, lack of rocky reef/hard bottom habitat, loss of kelp habitat, poor water circulation and tidal action, and other degraded ecosystem conditions. The study is now entering the feasibility phase in which alternatives will be developed, a tentatively selected plan and ultimately a proposed project will be identified, and environmental documentation will be completed.

2. Alternatives. Potential measures that would meet the objectives of the study are currently being developed and may include the addition of rocks out side of navigational channels to create underwater rocky reef and form a base for kelp beds; creation of sandy islands to provide suitable habitat for eelgrass; and various modifications to the Long Beach Breakwater such as removal and/or notching to improve water circulation. Measures will be grouped into discrete alternatives and analyzed in the IFR. In addition, the study will also evaluate the No Action alternative pursuant to NEPA.

3. Scoping and Analysis. a. The Corps intends to hold a public scoping meeting for the Draft IFR to aid in the determination of significant environmental issues associated with the proposed project, and to assist with alternative development. Affected federal, state and local resource agencies, Native American groups and concerned interest groups/individuals are invited to participate in the scoping process. Public participation is critical in defining the scope of analysis in the Draft IFR, identifying significant environmental issues in the Draft IFR, providing useful information such as published and unpublished data, sharing knowledge about relevant issues, and recommending potential measures or alternatives that may be considered for the purpose of meeting study objectives.

b. Potential impacts associated with the proposed project will be fully evaluated during the feasibility study. Identified planning constraints and considerations such as navigational operations, existing major utilities and infrastructure, minimizing flood risks will be considered. Resource categories that will be analyzed include: Physical environment, geology, biological resources, navigation/land use, air quality, water quality, recreational usage, aesthetics, cultural resources, transportation, noise, hazardous waste, socioeconomics and safety.

c. Throughout the feasibility study, the Corps and the City of Long Beach will coordinate and, or consult with other State and Federal regulatory and permitting agencies to ensure compliance with environmental laws and regulations including but not limited to the Coastal Zone Management Act, Clean Water Act, Endangered Species Act, U.S. Fish and Wildlife Coordination Act, Magnuson-Stevens Fishery Management and Conservation Act, as amended, National Historic Preservation Act, and the Clean Air Act.

4. Public Scoping Meetings: The Corps and City of Long Beach will jointly conduct two public scoping meetings at the date and address indicated above. The purpose of the scoping meeting is to gather information from the general public or interested organizations about issues and concerns that they would like to see addressed in the Draft IFR. Comments may be delivered in writing or verbally at the meeting. All comments will be entered into the public record.

5. Availability of the Draft IFR: The Draft IFR including Draft EIS/EIR is anticipated to be available for public review and comment in the spring or summer of 2017.

Dated: March 23, 2016.

Kirk E. Gibbs,

Colonel, U.S. Army, Commander and District Engineer.

[FR Doc. 2016–07284 Filed 3–30–16; 8:45 am]

BILLING CODE 3720–58–P

DEPARTMENT OF DEFENSE

Department of the Army; Corps of Engineers

Intent To Prepare a Draft Environmental Impact Statement for The Coastal Texas Protection and Restoration Feasibility Study

AGENCY: Department of the Army, U.S. Army Corps of Engineers, DoD.

ACTION: Notice of Intent.

SUMMARY: The U.S. Army Corps of Engineers (USACE) intends to prepare a Draft Integrated Feasibility Report and Environmental Impact Statement (DIFR–EIS) for the Coastal Texas Protection and Restoration Feasibility Study. This study will identify and evaluate the feasibility of developing a comprehensive plan for flood risk management, hurricane and storm risk management, and ecosystem restoration for the coastal areas of the State of Texas. The study will focus on providing for the protection, conservation, and restoration of wetlands, barrier islands, shorelines, and related lands and features that protect critical resources, habitat, and infrastructure from the impacts of coastal storms, hurricanes, erosion, and subsidence. This notice announces the USACE's intent to determine the scope of the issues to be addressed and for identifying the significant resources related to a proposed action.

DATES: Comments on the scope of the DIFR–EIS will be accepted through May 9, 2016.

ADDRESSES: Scoping comments may be sent by electronic mail to: *CoastalTexas@usace.army.mil.*

FOR FURTHER INFORMATION CONTACT: Galveston District Public Affairs Office at 409–766–3004 or *swgpao@usace.army.mil.*

SUPPLEMENTARY INFORMATION:

1. *Authority.* The Coastal Texas Protection and Restoration Feasibility Study is authorized under Section 4091, Water Resources Development Act (WRDA) of 2007, Public Law 110–114, to develop a comprehensive plan to determine the feasibility of carrying out projects for flood risk management, hurricane and storm risk management, and ecosystem restoration in the coastal areas of the State of Texas.

2. *Proposed Action.* The study will identify critical data needs and recommend a comprehensive strategy for reducing coastal storm flood risk through structural and nonstructural measures that take advantage of natural features like barrier islands and storm surge storage in wetlands. Structural alternatives to be considered include improvements to existing systems (such as existing hurricane protection projects at Port Arthur, Texas City, Freeport, and Lynchburg, and seawalls at Galveston, Palacios, Corpus Christi, North and South Padre Island), and the creation of new structural plans for hurricane storm risk management. Ecosystem restoration alternatives to be considered include estuarine marsh restoration, beach and dune restoration, rookery island restoration, oyster reef restoration, and seagrass bed restoration. The study will evaluate potential benefits and impacts of the proposed action including direct, indirect and cumulative effects to the human, water and natural environments that balance the interests of flood risk management, hurricane and storm risk management, and ecosystem restoration purposes for Texas and the Nation.

3. *Scoping.* In August, 2014, early scoping meetings were held in League City, Palacios, Corpus Christi, and the City of South Padre Island, Texas. Comments were received for 30 days following the last scoping meeting. Additional input from Federal, state and local agencies, Indian tribes, and other interested private organizations and parties is being solicited with this notice. The USACE requests public scoping comments to: (a) Identify the affected public and agency concerns; (b) identify the scope of significant issues to be addressed in the DIFR–EIS; (c) identify the critical problems, needs, and significant resources that should be considered in the DIFR–EIS; and (d) identify reasonable measures and alternatives that should be considered in the DIFR–EIS. A Scoping Notice announcing the USACE's request for public scoping comments will be sent via electronic mail to affected and interested parties. Scoping comments are requested to be sent by May 9, 2016.

4. *Coordination.* Further coordination with environmental agencies will be conducted under the National Environmental Policy Act, the Fish and Wildlife Coordination Act, the Clean Water Act, the Clean Air Act, the National Historic and Preservation Act, the Magnuson-Stevens Fishery Conservation and Management Act, and the Coastal Zone Management Act under the Texas Coastal Management Program.

5. *Availability of DIFR–EIS.* The DIFR–EIS will be available for public review and comment in July 2018.

Dated: March 23, 2016.

Richard P. Pannell,

Colonel, U.S. Army, Commanding.

[FR Doc. 2016–07283 Filed 3–30–16; 8:45 am]

BILLING CODE 3720–58–P

DEPARTMENT OF ENERGY

Record of Decision in re Application of Clean Line Energy Partners LLC

AGENCY: Department of Energy.

ACTION: Record of decision.

SUMMARY: Section 1222 of the Energy Policy Act of 2005 (EPAct 2005) grants the Secretary of Energy the authority to design, develop, construct, operate, maintain, or own, or participate with other entities in designing, developing, constructing, operating, maintaining, and owning new electric power transmission facilities and related facilities located within any state in which the Southwestern Power Administration (Southwestern) operates. In response to an application submitted by Clean Line Energy Partners LLC on behalf of itself and several corporate affiliates (collectively, Clean Line or the Applicant) the Department of Energy (DOE or the Department) announces its decision to participate in the development of approximately 705 miles of ±600 kilovolt (kV) overhead, high-voltage direct current (HVDC) electric transmission facilities and related facilities from western Oklahoma to the eastern state-line of Arkansas near the Mississippi River (the Project). This decision implements DOE's preferred alternative in Oklahoma and Arkansas as described in the *Final Environmental Impact Statement for the Plains & Eastern Clean Line Transmission Line Project* (Final EIS) (DOE/EIS–0486). Clean Line, acting on its own and without the Department's participation, would build additional facilities that would connect to the Project in Texas and Tennessee.

Collectively, the facilities built by Clean Line would have the capacity to deliver approximately 4,000 megawatts (MW) from renewable energy generation facilities, located in the Oklahoma Panhandle and potentially Texas Panhandle regions, to the electrical grid in Arkansas and Tennessee. The potential environmental impacts associated with the Project, plus the additional facilities in Texas and Tennessee, are analyzed in the Final EIS. DOE's review included consultations in accordance with Section 7 of the Endangered Species Act (ESA) and Section 106 of the National Historic Preservation Act (NHPA). DOE's decision requires the implementation of mitigation measures, and a complete list of these measures can be found in the Mitigation Action Plan (MAP).

ADDRESSES: Information regarding Section 1222 of EPAct 2005 can be found on the DOE Web site at *http://energy.gov/oe/services/electricity-policy-coordination-and-implementation/transmission-planning/section-1222.* The determination by the Secretary of Energy, Summary of Findings, and Participation Agreement are available on the DOE Web site at *http://energy.gov/oe/services/electricity-*

Appendix G-2

Scoping Report, June 2016

US Army Corps of Engineers®

National Environmental Policy Act (NEPA)

SCOPING REPORT

Texas Coastal Integrated Feasibility Study and Environmental Impact Statement

June 2016

ABSTRACT

The U.S. Army Corps of Engineers (USACE), Southwestern Division, Galveston District published a Notice of Intent (NOI) in the *Federal Register* (volume 81, number 62, 18601) on March 31, 2016, declaring its intention to prepare a Draft Integrated Feasibility Report and Environmental Impact Statement to determine the feasibility of implementing the Coastal Texas Protection and Restoration Feasibility Study (Study). The Study will determine the feasibility of developing and carrying out a comprehensive plan to address coastal storm risk management (CSRM) and ecosystem restoration (ER) opportunities in the coastal areas of the State of Texas.

The National Environmental Policy Act requires an early and open process for determining the scope of issues to be addressed in an EIS and for identifying the significant issues related to a proposed action. This process is referred to as *scoping*. Early scoping comments (2014) were considered in preparation of the Reconnaissance Report and of the project management plan (PMP) for the feasibility study. However, scoping input from Federal, state and local agencies, Indian tribes, and other interested private organizations and parties is also being solicited with the NOI. In addition to the request for scoping comments in the NOI, a separate Scoping Notice announcing the USACE's request for scoping comments was also sent via electronic mail to affected and interested parties. Scoping comments were requested, consistent with the NOI, to be provided between March 31, 2016, and May 9, 2016. Scoping comments were requested to:

- identify the affected public and agency concerns;
- identify the scope of significant issues to be addressed in the DIFR–EIS;
- identify the critical problems, needs, and significant resources that should be considered in the DIFR–EIS; and
- Identify reasonable measures and alternatives that should be considered in the DIFR–EIS.

This Scoping Report provides background information regarding the proposed action and outlines the NEPA scoping process. This Scoping Report also summarizes individual scoping comments received during the March 31, 2016 to May 9, 2016 comment period; categorizes the scoping themes of each comment; and indicates where in the DIFR-EIS each scoping comment could likely be addressed.

Scoping comments were received from individuals, non-governmental organizations (NGO), university, city/town, state, and Federal stakeholders. A total of 2,108 scoping comment letters and emails were received during the scoping comment period. A total of 10,954 multi-part scoping comments were expressed. The vast majority of comments were submitted by NGOs, especially the Sierra Club (2,092). The greatest number of comments expressed concerns regarding environmental consequences. The top five scoping themes identified from the scoping comments were provided by the over 2,100 comments from the Sierra Club and include:

1. Address impacts due to human development and population growth.
2. Significant natural resources that could be negatively impacted by a coastal barrier protection system.
3. Changes to natural resources should focus on non-structural solutions and disclose biological effects.
4. Solutions must protect the coastal environment and must disclose biological effects.
5. Alternatives should include nature-based solutions that improves access to outdoor recreation and conserves Texas' diverse coastal ecosystem.

This NEPA Scoping Report will be published on the Study web site: http://www.swg.usace.army.mil/Missions/Projects/CoastalTexasFeasibilityStudy.aspx.

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National Environmental Policy Act (NEPA)

SCOPING REPORT

Coastal Texas Protection and Restoration Feasibility Study
Integrated Feasibility Report and Environmental Impact Statement

June 2016

1.0 INTRODUCTION

The National Environmental Policy Act (NEPA) of 1969 (Public Law 91-190; 42 U.S.C 4321 *et seq*) and the Regulations for Implementing the Procedural Provisions of the NEPA (40 CFR §§ 1500-1508) require the federal government to use all practicable means to create and maintain conditions under which man and nature can exist in productive harmony. The NEPA procedures insure that environmental information is available to the public before decisions are made and before actions are taken. All federal agencies are required to prepare detailed statements assessing the potential environmental impacts of and alternatives to major federal actions significantly affecting the environment. Such detailed statements are referred to as environmental impact statements (EIS).

The U.S. Army Corps of Engineers, Southwestern Division, Galveston District published a Notice of Intent (NOI) in the *Federal Register* (volume 81, number 62, 18601) on March 31, 2016, declaring its intention to prepare a Draft Integrated Feasibility Report and Environmental Impact Statement (DIFR-EIS) to determine the feasibility of implementing the Coastal Texas Protection and Restoration Feasibility Study. The Coastal Texas Protection and Restoration Feasibility Study will determine the feasibility of developing and carrying out a comprehensive plan to address coastal storm risk management (CSRM) and ecosystem restoration (ER) opportunities n the coastal areas of the State of Texas. The study will identify critical data needs and recommend a comprehensive strategy for reducing coastal storm flood risk through structural and nonstructural measures that take advantage of natural features like barrier islands and storm surge storage in wetlands. Structural alternatives to be considered include improvements to existing systems (such as existing hurricane protection projects at Port Arthur, Texas City, Freeport, and Lynchburg, and seawalls at Galveston, Palacios, Corpus Christi, North and South Padre Island), and the creation of new structural plans for hurricane storm risk management. Ecosystem restoration alternatives to be considered include estuarine marsh restoration, beach and dune restoration, rookery island restoration, oyster reef restoration, and seagrass bed restoration.

The NEPA requires an early and open process for determining the scope of issues to be addressed in an EIS and for identifying the significant issues related to a proposed action. This process is referred to as *scoping*. In August, 2014, early scoping meetings were held in League City, Palacios, Corpus Christi, and the City of South Padre Island, Texas. Comments were received for 30 days following the last scoping meeting. These early scoping meeting comments have been considered by the planning delivery team (PDT) during preparation of the Reconnaissance Report and in preparation of the project management plan (PMP) for the feasibility study.

However, scoping input from Federal, state and local agencies, Indian tribes, and other interested private organizations and parties is also being solicited with the NOI. In addition to the request for scoping comments in the NOI, a separate Scoping Notice announcing the USACE's request for scoping comments was also sent via electronic mail to affected and interested parties. Scoping comments were requested, consistent with the NOI, to be provided between March 31, 2016, and May 9, 2016. Scoping comments were requested to:

- identify the affected public and agency concerns;
- identify the scope of significant issues to be addressed in the DIFR–EIS;
- identify the critical problems, needs, and significant resources that should be considered in the DIFR–EIS; and
- Identify reasonable measures and alternatives that should be considered in the DIFR–EIS.

Scoping input from Federal, state and local agencies, Indian tribes, and other interested private organizations and parties is also being solicited with the NOI. In addition to the request for scoping comments in the NOI, a separate Scoping Notice announcing the USACE's request for scoping comments was also sent via electronic mail to affected and interested parties. Scoping comments were requested, consistent with the NOI, to be provided between March 31, 2016, and May 9, 2016. Scoping comments were requested to:

- identify the affected public and agency concerns;
- identify the scope of significant issues to be addressed in the DIFR–EIS;
- identify the critical problems, needs, and significant resources that should be considered in the DIFR–EIS; and
- identify reasonable measures and alternatives that should be considered in the DIFR–EIS.

Scoping comments were received from individuals, non-governmental organizations (NGO), university, city/town, state, and Federal stakeholders. A total of 2,108 scoping comment letters and emails were received during the scoping comment period. This NEPA Scoping Report provides background information regarding the proposed action and outlines the NEPA scoping process. This Scoping Report also summarizes each individual scoping comment received during the March 31, 2016, to May 9, 2016, comment period; categorizes the scoping themes of each comment; and indicates where in the DIFR-EIS scoping comments could likely be addressed.

2.0 STUDY AUTHORITY

Study Authority

"Sec. 4091. Coastal Texas Ecosystem Protection and Restoration, Texas.
(a) In General.—The Secretary shall develop a comprehensive plan to determine the feasibility of carrying out projects for flood damage reduction, hurricane and storm damage reduction, and ecosystem restoration in the coastal areas of the State of Texas.
(b) Scope.—The comprehensive plan shall provide for the protection, conservation, and restoration of wetlands, barrier islands, shorelines, and related lands and features that protect critical resources, habitat, and infrastructure from the impacts of coastal storms, hurricanes, erosion, and subsidence.

(c) Definition.—For purposes of this section, the term "coastal areas in the State of Texas" means the coastal areas of the State of Texas from the Sabine River on the east to the Rio Grande River on the west and includes tidal waters, barrier islands, marshes, coastal wetlands, rivers and streams, and adjacent areas."
(Source: Section 4091, Water Resources Development Act (WRDA) of 2007 Public Law (P.L.) 110-114)

Additional Study Guidelines: On September 25, 2015 at the Coastal Texas exemption briefing to the Senior Leaders Panel (SLP), the SLP recommended that the Coastal Texas Study be considered a "Mega-Study", following some of the same tenets recommended for USACE Mega-Projects by ECB 2014-14. A three tier supplemental governance structure was developed to facilitate conflict resolution and ensure successful partnering at all levels of the organizations. The three tiers that are responsible for project oversight and ensuring successful project execution include Tier 1: Executive Leadership Team, Tier 2: Business Process Assurance Team, and Tier 3: Active Management Team.

3.0 PROPOSED ACTION

Study Area

The Study Area consists of the entire Texas Gulf Coast from the mouth of the Sabine River to the mouth of the Rio Grande, and includes the Gulf and tidal waters, barrier islands, estuaries, coastal wetlands, rivers and streams and adjacent areas that make up the interrelated ecosystem along the coast of Texas. The Study Area encompasses 18 coastal counties. In order to aid the planning process the Study Area was divided into Planning Regions 1-4 where significant project-related impacts would likely occur (**Figure 1**).

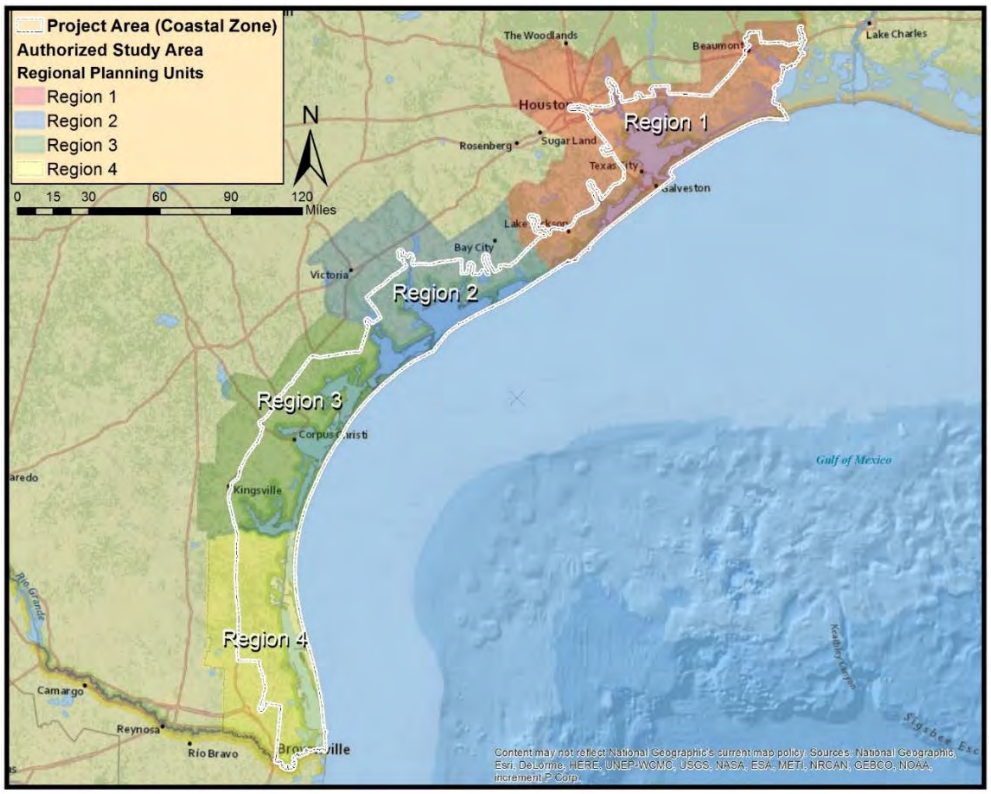

Figure 1. Coastal Texas Study Area and Project Area.

These Planning Regions closely correspond to the U.S. Environmental Protection Agency's (EPA) Level 4 Ecoregions (**Figure 2**). Ecoregions denote areas of general similarity in ecosystems and in the type, quality, and quantity of environmental resources. Ecoregions serve as a spatial framework for the research, assessment, management, of ecosystem components. Ecoregions are also critical for structuring and implementing ecosystem management strategies.

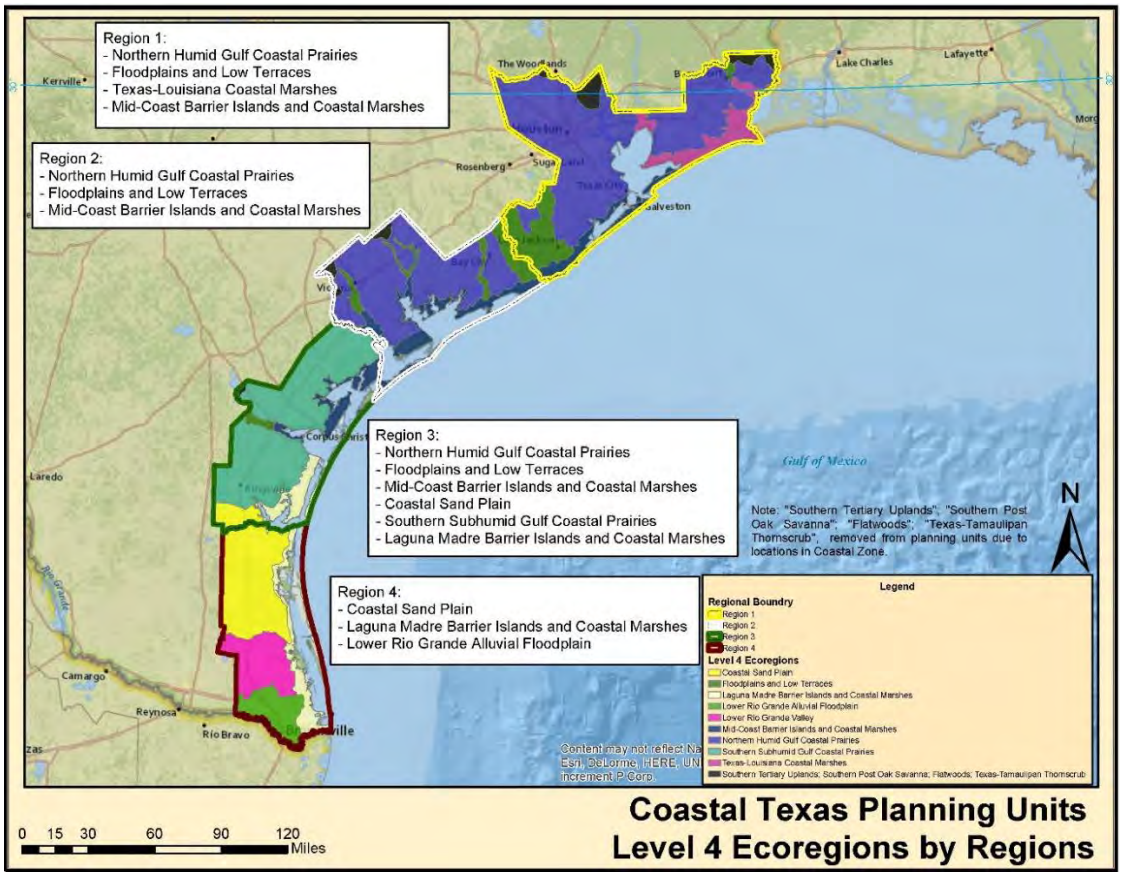

Figure 2. Coastal Texas Planning Units and EPA Level 4 Ecoregions.

Project Goal

The twofold project goal includes both a Coastal Storm Risk Management (CSRM) goal and an Ecosystem Restoration (ER) goal:

1. The CSRM goal is to promote a sustainable economy by reducing the risk of storm damage to residents to residential structures, industries and businesses critical to the nation's economy. Hence, the CSRM measures and alternatives will be formulated to achieve the National Economic Development (NED) principles and objectives.
2. The ER goals are to significantly and sustainably reduce coastal erosion, restore fish and wildlife habitat such as coastal wetlands, oyster reefs, beaches and dunes, and evaluate a range of coastal restoration components to address a multitude of ecosystem problems. The ER measures and alternatives will be formulated to achieve the National Ecosystem Restoration (NER) principles and objectives. Contributions to NER are increases in the net quantity

and/or quality of desired ecosystem resources, and are measured in the Study Area and nationwide.

4.0 NEPA SCOPING PROCESS

As part of the NEPA scoping process the lead agency may hold an early scoping meeting or meetings especially when the potential impacts of a particular action are confined to specific sites. In addition, as part of the scoping process the lead agency shall:

- Invite the participation of affected Federal, State, and local agencies, any affected Indian tribe, the proponent of the action, and other interested persons (including those who might not be in accord with the action on environmental grounds).
- Determine the scope and the significant issues to be analyzed in depth in the environmental impact statement.
- Identify and eliminate from detailed study the issues which are not significant or which have been covered by prior environmental review, narrowing the discussion of these issues in the statement to a brief presentation of why they will not have a significant effect on the human environment or providing a reference to their coverage elsewhere.

Although comments received prior to the publication of the NOI in the Federal Register will be considered during plan formulation, this NEPA Scoping Report presents and summarizes the scoping comments received during the scoping comment period beginning March 31, 2016, and ending May 9, 2016. This NEPA Scoping Report indicates where in the EIS individual comments could likely be addressed. This NEPA Scoping Report will be published on the Study web site:

http://www.swg.usace.army.mil/Missions/Projects/CoastalTexasFeasibilityStudy.aspx.

5.0 SCOPING COMMENTS

NEPA scoping comments document concerns expressed by interested parties regarding the scope of the proposed course of action, as well as significant issues, resources and suggested alternatives. NEPA scoping comments will be considered during the study plan formulation process and in preparation of the draft DIFS-EIS.

Summary of NEPA Scoping Comments

Scoping comments were received from individuals, non-governmental organizations (NGO), university, city/town, state, and Federal stakeholders. A total of 2,108 scoping comment letters and emails were received during the scoping comment period (**Table 1**). A total of 10,954 multi-part scoping comments were expressed (T**able 1**). The majority of comments were submitted by NGOs, especially the Sierra Club (2,092); the second most numerous comments were from individuals (16), State (6), Federal (4), city/town (2), and university (1).

Table 1. Number and Source of Scoping Comments.								
Source of Comments	**#**	**# Multi-part comments**	**Federal**	**State**	**City/ Town**	**University**	**NGO**	**Individual**
Individual Comments From Various Sources	40	389	4	6	2	1	11	16
Sierra Club Mass Email With Same Comments	2082	10,410	0	0	0	0	2,082	0
Sierra Club Mass Email Combination Same and Individual Comments	61	155	0	0	0	0	61	0
TOTALS	**2,108**	**10,954**	**4**	**6**	**2**	**1**	**2,092**	**16**

NEPA scoping comments were categorized, consistent with 40 CFR §1502.10, according to the standard format section of the EIS where the subject matter of the comment would likely be addressed. A scoping comment may contain several multi-part comments regarding multiple areas of concern. Hence, a single comment could potentially be addressed in multiple sections of the DIFR-EIS. **Table 2** displays the categorization and breakdown of the 20,357 specific comments by EIS format or subject matter. The standard EIS format (40 CFR §1502.10) includes the following chapters/sections:

- Purpose and Need
- Alternatives
- Affected Environment
- Environmental Consequences
- Consultation, Coordination, and Compliance with Regulations

Table 2 Categorization of Scoping Comments by EIS Subject Matter.						
Source of Comments	**PN***	**ALT***	**AE***	**EC***	**CC***	**Totals**
Individual Comments From Multiple Sources	36	272	163	246	93	**811**
Sierra Club Mass Email With Same Comments	0	4,168	6,246	8,328	0	**18,742**
Sierra Club Mass Email Combination Same and Individual Comments	2	261	216	318	4	**801**
TOTALS	**38**	**4,440**	**6,409**	**8,574**	**93**	**20,357**
NOTE: A single scoping comment may be categorized under multiple EIS subject matter headings. * PN = Purpose and Need, ALT = Alternatives, AE = Affected Environment, EC = Environmental Consequences, and CC = Consultation, Coordination, and Compliance with Regulations.						

The greatest number of comments received expressed concerns regarding the environmental consequences (8,574); this was followed by the affected environment (6,409); alternatives (4,440); consultation, coordination, and compliance with regulations (93); and the fewest comments received expressed concern regarding the purpose and need (39).

Purpose and Need

A total of 39 comments were received regarding purpose and need. Examples of a comment in this category include:

1. *This Study is important to ensure that our ocean and coastal resources are protected to the maximum extent possible for generations to come, and NEPA demands that all feasible alternatives, impacts, cumulative impacts, and mitigation measures be considered with respect to the Study.*
2. *Stop hurting the USA/Earth in short term thinking/projects.*
3. *Any project to protect the Texas coast from hurricane and storm surges has to take account of science, not just engineering.*

Alternatives

A total of 4,440 comments were received concerning alternatives. Examples of a comment in this category include:

1. *The study must address the impact from development and population growth that occurs in the storm surge areas along the Texas coast and may result in habitat destruction.*
2. *Alternatives should include a nature-based solution that improves access to outdoor recreation and conservation of Texas' diverse coastal ecosystems.*
3. *Changes to our natural resources should focus on non-structural solutions or physical solutions that are adapted to specific areas and have low environmental impacts.*

Affected Environment

A total of 6,409 comments were received concerning the affected environment. Examples of comments in this category include:

1. *Significant natural resources that could be negatively impacted by a coastal barrier protection system include: bottomland hardwood forested wetlands, Galveston Bay, oyster reefs, seagrass beds, salt, brackish, and freshwater marshes, tidal flats, San Luis Pass, Bolivar Peninsula, West Galveston Island, Follets Island, national wildlife refuges, state parks, fish passes, endangered/threatened bird habitat, and sea turtle nesting beaches.*
2. *I have personally been at protected turtle nesting sites and know that hatchling survival, even when everything is ideal, is a challenge. So my immediate comment would be to get to know what the survival requirements would be for the most challenged of creatures and see that your decisions work in their favor.*
3. *I live in San Antonio and frequently visit the Texas coast. Seeing the wildlife at the coast is always a pleasure, especially sea turtles and dolphins. I worry about the overall health of our bays and estuaries.*

Environmental Consequences

A total of 8,574 comments were received regarding the environmental consequences. Examples of comments in this category include:

1. *Solutions must protect the coastal environment, and a full study and analysis of the biological effects of construction of any man-made coastal barrier system must be determined, and alternative ways to solve the problem must be considered including moving humans away from these areas.*

2. *I am an avid birder who travels to different areas of the country and the world, and I am particularly concerned about adverse impacts on the magnificent and crucial bird habitat along the Texas coast.*
3. *The sea turtles are already highly endangered, so destroying their nesting beaches with sea walls, gates and levees will only push them closer to extinction.*

Consultation, Coordination, and Compliance with Regulations

A total of 93 comments were received regarding consultation, coordination and compliance with regulations. Examples of comments in this category include:

1. *The public must have more time to review/analyze/comment on this scoping proposal. The Corps should provide a two to four week extension of the scoping comment period.*
2. *The Corps must implement an extensive public outreach/input program not just for Texas coastal areas but for all of Texas.*
3. *Consultation for tribal cultural resources is required under Section 106 of the National Historic Preservation Act. Historic properties under the NHPA are properties that are included in the National Register of Historic Places or that meet the criteria for the National Register.*

Tables 3, 4 and **5** summarizes each scoping comment and indicates by EIS subject matter, where an individual comment would likely be addressed in the DIF-EIS. EIS categories include: PN = Purpose and Need; ALT = Alternatives; AE = Affected Environment, EC = Environmental Consequences; CC = Consultation, Coordination, and Compliance with Regulations (Federal, state, and local environmental laws and regulations) is also included in this latter category. An individual scoping comment may be categorized under more than one EIS subject matter heading.

Table 3. Coastal Texas Protection and Restoration Study Scoping Comments -- Summary of Electronic Mail and Letter Scoping Comments. This table categorizes scoping comments by EIS subject matter, which is where an individual comment would likely be addressed in the draft EIS.

Comment #	Person /Agency	Date	Theme of Comment	NEPA Scoping Comment (may be paraphrased or summarized)	EIS Section Where Comment Could be Addressed				
					PN	ALT	AE	EC	CC
1	Dwayne Bohac, Texas State Representative for District 138, Harris County	4/5/2016	no substantive comment	Thank you for contacting Dwayne Bohac, Texas State Representative for District 138, Harris County. It is the policy of our office to respond to all constituents. However, in order to receive a response from our office regarding your email, please reply (by clicking the "reply" button) to this email with the following information: 1. Name 2. Physical Address 3. Zip Code 4. Phone Number (s). If you included the information in your original email it is not necessary to re-send the information. Thank you for your understanding and cooperation. Your thoughts and ideas are very important to me, and your message will be reviewed and responded to as soon as we receive your contact information. Should you require immediate assistance, please contact my District Office at 713.460.2800. I appreciate your interest in the issues that affect all of us as Texans. Our system of government can only work properly when each citizen takes an active role in the process of shaping public policy. Sincerely, Dwayne Bohac State Representative, District 138					
2	Huber Vo, State Representative	4/5/2016	no substantive comment	Thank you for your email. I appreciate you taking the time to share your thoughts and concerns with me. Your comments are very important to me, and I can assure you that your email will be reviewed and carefully considered. However, due to the high volume of emails received, I am unable to respond individually. If you would like further assistance, please contact my Capitol office by phone at (512) 463-0568, or by mail at P.O. Box 2910, Austin, Texas 78768. For information on legislation, visit the Texas Legislature's website at www.capitol.state.tx.us<Blockedhttp://www.capitol.state.tx.us/>, or call the bill status hotline toll free at 877-824-7038. As always, it is a pleasure to serve you. Sincerely, Hubert Vo State Representative					
3	Amanda Fenwick, Councilwoman, City of Clear Lake Shores	4/5/2016	no substantive comment	Thanks for your email. Please update your records to reflect my new email: amanda.fenwick.cls@gmail.com. mailto:amanda.fenwick.cls@gmail.com> Thank you! Amanda (Booren) Fenwick Councilwoman, City of Clear Lake Shores					
4	Kevin Tuerff. President Enviro Media	4/5/2016	no substantive comment	Thank you for your email. I'm out of the office on work travel through April 6, 2016. I'll respond to you as soon as possible. If this is an urgent matter, please contact our office at 512-476-4368. Thank you, Kevin Tuerff					
5	tcarrillo@basyfoundation.org	4/5/2016	no substantive comment						
6	Kristin Ransom, The Baldwin Group	4/5/2016	no substantive comment	This is a short note to let you know that I will be out of the office from Monday, April 4 through Friday, April 8. I will be checking email periodically, and well return your message as soon as I am able.					

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7	Brandon Creighton, State Senate Texas	4/5/2016	no substantive comment	Dear Friend, Thank you for taking the time to write to me. I am always appreciative hearing from concerned citizens, like you, who care about the future of our great state. Due to the high volume of correspondence received, it can be difficult to respond to each person individually in a timely manner. We will do our best to respond to your correspondence in the order it was received. If you need immediate assistance, please feel free to contact my staff directly at my capitol or district office					
8	Laurie Howell, Padre Elite Team RE/MAX	4/5/2016	add to email list	To Whom It May Concern, I would like to be added to your coastal information e-mails. Thank you, Laurie					**1**
9	John Brick, City Administrator, City of Jamaica Beach	4/6/2016	install sand dunes	1. The critical natural and human environmental problems and needs that should be addressed is the installation of a sand dune on the beach to protect property from high tides and storms.		**1**			
10			funds and sand	2. Resources that should be considered are funds and sand to install and maintain sand dunes along the coast.	**1**	**1**	**1**		
11			no response	3. No response to this question. (refers to 3rd scoping question)					
12	Emily Eppright Kirchner, Chief of Staff for Rep. Ed Thompson	4/12/2016	request reports	My name is Emily Kirchner and I work for Rep. Ed Thompson in Austin. Would it be possible to receive copies of USACE reports of interest to Rep. Thompson? If so, can you please let me know who I should contact to receive a link to the studies of interest? Thanks so much, Emily					**1**
13	Natalye Appel, Natalye Appel + Associates Architects	4/13/2016	extend public scoping comment period; hold public meetings	The public must have more time to review/analyze/comment on this scoping proposal. The Corps should provide a two- to four-week extension of The scoping comment period.					**1**
14				The Corps should hold at least one, and more appropriately two or more, public meetings in four locations on The Texas Coast including: Orange-Port Arthur-Beaumont, Houston-Galveston, Corpus Christi, and Brownsville areas. The public must be educated about and see The extent of this study. The Corps must implement an extensive public outreach/input program not just for Texas coastal areas but for all of Texas. Federal and state public tax dollars will be used to prepare/implement the study's recommendations. Texas, as well as all United States taxpayers, has significant environmental, social, and economic investments and concerns that this study will cover.					**1**
15			impacted natural resources	Significant natural resources will be negatively impacted by this proposal. Some of these Significant resources include: Sabine Lake, Sabine and Neches Rivers, bottomland hardwood forested wetlands, Galveston Bay, oyster reefs, seagrass beds, salt, brackish, and freshwater marshes, tidal flats, San Luis Pass, Bolivar Peninsula, West Galveston Island, Follets Island, national wildlife refuges (like Aransas, Anahuac, McFaddin, Brazoria, San Bernard, Big Boggy,			**1**	**1**	

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				Laguna Atascosa, and Lower Rio Grande Valley), state parks (like Galveston, Sea Rim, and Goose Island), fish passes, endangered/threatened species habitat (like Whooping Cranes and Piping Plovers), Sea turtle nesting beaches, Matagorda Bay, Lavaca Bay, South Padre Island, Padre Island, Mustang Island, Matagorda Island, San Jose Island, Corpus Christi Bay, Aransas Bay, Laguna Madre, brush country, South Bay, The Mouth of The Rio Grande, etc. Nearly every coastal habitat on The Texas Coast could be affected by this proposal. These natural, recreational, tourist, and wildlife-centered places must not be harmed by any study proposals.					
16			focus on non-structural alternatives	Alternatives should not focus on massive, structural, engineered projects, which harm natural, recreational, and tourist areas. Alternatives should focus on non-structural solutions or structural solutions that are adapted to specific areas and have low environmental impacts like: individual levees around industrial plants/units (like storage tanks) to reduce the impacts of oil/chemical spills on the Houston Ship Channel and other ports; do not worsen and ultimately help resolve environmental justice problems for those who live near large public works and industrial facilities; use planned withdrawal (buyouts) in areas where sensitive ecological lands exist and solutions are expensive to build, operate, finance, maintain, repair, and replace, like Bolivar Peninsula and West Galveston Island; acquire buffers that allow marshes and other natural ecosystems to migrate inland as sea level rises; are as low cost as possible, since proposed costs could be in the tens of billions of dollars, and require significant private sector, local, and state financial support. We must have alternatives that protect the coastal environment and "keep people out of harm's way." We must tailor our natural and human solutions in a manner where they fit together well and compliment each other. Gargantuan projects do not guarantee success in the protection and preservation of our treasured coastline. We need community solutions focused on natural preservation for our and our children and long-term safety, pleasure, and enjoyment.		**1**			
17	Brandt Mannchen / Sierra Club	4/22/2016	extend public scoping comment period; hold public meetings	The Sierra Club requests additional time to provide scoping comments for The Coastal Texas Protection and Restoration Study (Study). Since this Study covers all 367 miles of the Texas Coast, considers 10's of billions of dollars of expenditures, and will propose alternatives with enormous environmental impacts and social and economic costs it is reasonable to provide the Sierra Club, public, and decision-makers with an additional 14 to 30 days of public comment time. This would mean that comments would be due					**1**

Table 3. Coastal Texas Protection and Restoration Study Scoping Comments -- Summary of Electronic Mail and Letter Scoping Comments. This table categorizes scoping comments by EIS subject matter, which is where an individual comment would likely be addressed in the draft EIS.

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					PN	ALT	AE	EC	CC
				either on May 23, 2016 or June 8, 2016. Such an extension of the comment period would not appreciably slow the preparation of the draft EIS since the Corps can begin analysis, assessment, and evaluation of public comments as they are submitted and the draft EIS is not due for at least two years (2018). The Sierra Club also requests that public scoping meetings be held. It has been about two years since any meetings were held on this project. The public and decision-makers must know where the Corps is with this Study and what information has been acquired to date. Since this Study covers the entire 367 mile Texas Coast and is funded by federal dollars a series of public meetings which provide information about the proposal is a reasonable request to make.					
18			public outreach	Finally, the Sierra Club requests that the Corps implement an extensive public outreach/participation program for the Study. The reason that an extensive public outreach/participation program is needed is that this Study may result in the expenditure of 10's of billions of dollars, massive new infrastructure, significant environmental impacts, significant social and economic costs, and altered human environments that all coastal Texans (about 13 million), all Texans (27.47 million as of 2015), and all United States citizens (318.86 million as of 2014) will be interested and concerned about, are affected by, but will not know about or participate in if they are not informed. Since most of the money to pay for the Study is federal, since this is a federal project, since most of the money used to construct proposed alternatives may be federal, since federal policy, like protection of wetlands via the Clean Water Act is involved, it is reasonable that an extensive public outreach/participation program be implemented now and over the next two years when the DEIS will be released. Thank you for consideration of the Sierra Club's requests for additional time for scoping comments, public meetings, and an extensive public outreach/participation program for The Coastal Texas Protection and Restoration Study. Brandt Mannchen			**1**		**1**
19	Roy E. Crabtree, Regional Administrator, National Oceanic and Atmospheric Administration, National Marine Fisheries Service	4/26/2016	cooperating agency/points of contact	NOAA's National Marine Fisheries Service (NMFS) has received your letter dated April 11, 2016, requesting our participation as a cooperating agency in the preparation of the Integrated Feasibility Report and Environmental Impact statement (IFR-EIS) for the Coastal Texas Protection and Restoration Feasibility Study. Given the scale and scope of the U.S. Army Corps of Engineers' IFR-EIS, there is the potential for impacts and benefits to NOAA-trust resources resulting from projects associated with the IFR-EIS. Therefore, NMFS agrees to serve as a cooperating agency		**1**	**1**	**1**	**1**

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				in the preparation of the IFR-EIS. Due to staffing and travel constraints, our participation in the preparation of the IFR-EIS may be limited to our review and comment on draft National Environmental Policy Act documents, teleconferences, and occasional travel to meetings.					
20			Points of contact	We appreciate your invitation to participate in an Interagency Meeting scheduled on May 3, 2016, from 8:30 to 11:30 AM at the Galveston District Headquarters. Mr. Rusty Swafford of our Habitat Conservation Division plans on attending this meeting. Rusty Swafford is the point of contact for any Essential Fish Habitat related issues/questions. Mr. Dennis Klemm of our Protected Resources Division plans to participate remotely via teleconference/webinar. Dennis Klemm is the point of contact for any Endangered Species Act related issues/questions. Dr. Jim Nance of the Southeast Fisheries Science Center's Galveston Laboratory has also indicated he may attend the Interagency Meeting.					**1**
21	John B. Anderson Maurice Ewing Professor of Oceanography Rice University	4/28/2016	sea level rise, sand supply, coastal change	I am writing to express interest in the proposed CESWG Coastal Texas Program. I am the Maurice Ewing Professor of Oceanography at Rice University and a coastal scientist who has worked on the Texas coast for over three decades. My specific interests are in understanding coastal response to accelerated sea-level, limited sand supply and other factors and in developing improved numerical models for predicting coastal change over the next century. My main objective is to advise you that Rice University, through the Shell Center for Sustainability, is currently conducting research into coastal response to accelerated sea-level rise and impacts of sea-level rise and coastal infrastructure. Our team of researchers stands prepared to collaborate on the CESW Coastal Texas project by providing results from previous studies and updating you on the progress of current research. As Director of the Shell Center for Sustainability, I can be your contact person. Sincerely, John B. Anderson, Maurice Ewing Professor of Oceanography, Rice University			**1**		
22	Kathryn Aguilar	5/1/2016	do no harm, unintended consequences	As a resident living on the shore of Galveston Bay, I have a large stake in the eventual actions which the Army Corps of Engineers is studying in preparation for putting forth a solution to the chronic area flooding problems and the specific dangers posed by hurricanes to our coastal plain. I would like to stress the following guidelines in your study and eventual recommendations. 1. First, do no harm. Flooding is often times the result of human intervention and heedless building along the flood plain. This needs to be stopped for the sake of all residents, current and future. The		**1**		**1**	

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				Army Corps have been involved in many projects, which have as a goal the control of rivers, bayous and bays, dredged shipping lanes, etc. Frequently, unintended consequences of poorly designed, or poorly built or poorly conceived projects can in fact increase dangers and lead to flooding of previously "safe" structures. I would hope that you are all familiar with "Rising Tide" by John Barry, which illuminated the problems of attempting to control the flow of the Mississippi River without regard to the unintended consequences. Such consequences include continuing land loss at the river delta, which greatly exacerbates the problem of tidal flooding & hurricane vulnerability—as shown by Hurricane Katrina. This expensive & flawed effort has given residents a false sense of security and a green light to reckless building.					
23			unintended environmental consequences	In this regard, there has been harm done already by the building of the Bayport POH shipping terminal and cruise ship terminal next to existing neighborhoods—Shoreacres, El Jardin, and SE La Porte. The site of this expansion was important wetlands & habitat for wild animals. Until paved over, this area absorbed much tidal and coastal flooding and is now an empty concrete parking lot and large empty cruise terminal building. Much of the wildlife was displaced, of course, from an area designated a bird sanctuary. Most frustrating, is the fact that this cruise terminal, which required irreplaceable wetlands loss, is unwanted, unneeded, and a financial drain on all Harris County Tax payers. This is now acknowledged as a mistake of embarrassingly large dimensions. Army Corps, please stop, rather than facilitate, such ill-conceived projects in the future. Shoreacres and SE La Porte, by the way, suffered massive damage due to flooding in Hurricane Ike. Much of this flooding resulted from the same effect that condemned parts of New Orleans--- the channeling of water from Bayport into bayous that backed up into neighborhoods, much like the infamous Mr. Go canal did to New Orleans homes.		**1**		**1**	
24			impacts to wetlands; mitigation	All over Harris county and beyond, wetlands are being paved over, filled and removed as vital flood control due to pressure for unlimited growth, which harms all areas, leaving them vulnerable for future flooding. Though removal of wetlands is prohibited by law, it continues. Mitigation for loss is not equivalent to the loss and proves inadequate to stop flooding.		**1**		**1**	
25			cost effectiveness; hurricanes and flood control	1. Take the cost effective and environmentally superior path to flood control. We have a chance now to consider a smarter approach to the dangers of flooding and hurricanes. This approach must allow for the health of the Bay, which includes oyster beds that help clean the water and important fishing and recreational uses,		**1**		**1**	

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				wildlife habitat, residences and some businesses. These must be a priority.					
26			moratorium on projects in flood plain; acquire wetlands	I believe there should be a moratorium on all projects in the flood plain involving replacement of the remaining undeveloped wetlands with concrete and building. Rather than build a coastal spine, which traps water on the Eastern side of 146, where many people have had homes for decades, insist that this undeveloped land serve as absorbing surface for all future flood waters, whether due to hurricane or rain event. The Harris County and other entities should acquire all such undeveloped wetlands as well as chronically flooding land for the public benefit, and passively provide for flood control. This solution is far superior with regard to environmental and cost concerns as well as quality of life for the cities and surrounding suburbs.		1		1	
27			elevate structures instead of building levees	2. Empower the individual owner to elevate, and, where needed, levy their own property. Building massive dikes and spines is a short sighted and ill-considered option which gives the green light to paving over wetlands and unbridled growth. Such growth condemns us all to a future of chronic flooding. These dikes & levies take responsibility away from the individual to secure their own property by elevating and improving their own structures, and places faith in a massive system which requires decades and billions of dollars and will, in the end, be thwarted by the relentless desire of water to flow in the direction that gravity drives it.		1		1	
28			Industry protect their assets	Industry is currently building new facilities along the ship channel and other locations without regard for increasing flood risk. Industry needs to take the initiative to protect their own assets and protect the public from dangers associated with damage to these assets.		1		1	1
29			seawall Galveston Island	Texas City built a levy that withstood Ike and saved many from flooding. Completing a seawall around the most inhabited areas of Galveston Island should also be a priority.		1		1	
30			Galveston Island nature preserve	The West end of the Island should be regarded primarily as a nature preserve.		1			
31			FEMA practices	Another area of need is FEMA practices that will not typically pay for flood damaged foundations. This is a shortsighted practice that results in rebuilding at grade. FEMA should work with homeowners to encourage raising structures to insure future prevention as this solves the problem of repetitive flooding.		1			1
32			public coordination and sustainability	3. Make sure the public is heard and that your proposal is open to revision based on public concerns. We need to build sustainably and in an environmentally sensitive fashion to insure that the area remains viable and beautiful for future generations. Please discard		1		1	1

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				the unlimited growth, big government project bias in favor of multiple smaller actions having the cumulative effect of preserving, protecting, and enhancing our lovely green plain along winding bayous and bays.					
33			address both hurricane and rain events for cost effective long term solutions	I believe that a process which can be gradually implemented and that will address both hurricane events and heavy rain events and works with individual property owners to best address their specific needs as well as the community needs will prove most capable of evolving with a changing environment. This is provide the most cost effective long term solution to all flooding issues. Sincerely, Kathryn Aguilar		1		1	
34	Brandt Mannchen / Sierra Club	4/5/2016	attached scoping comment of Houston Sierra Club	Dear Corps, Attached are the scoping comments of the Houston Sierra Club regarding the Coastal Texas Protection and Restoration Feasibility Study. A hard copy with the appendices will be mailed to you. The Sierra Club addresses these scoping comments via three questions that were included in an April 5, 2016 email from the Corps about the Study.					
35			request for public scoping meetings	1) The Sierra Club requests that public scoping meetings be held. It has been about two years since any meetings were held on this project. The public and decision-makers must know where the Corps is with this Study and what information has been acquired to date. Since this Study covers the entire 367 mile Texas Coast and is funded by federal dollars a series of public meetings which provide information about the proposal is a reasonable request to make.					1
36			extend public scoping comment period	2) The Sierra Club requests additional time to provide scoping comments. Since this Study covers all 367 miles of the Texas Coast, considers 10's of billions of dollars of expenditures, and will propose alternatives with enormous environmental impacts and social and economic costs it is reasonable to provide the Sierra Club, public, and decision-makers with an additional 14 to 30 days of public comment time. This would mean that comments would be due either on May 23, 2016 or June 8, 2016. Such an extension of the comment period would not appreciably slow the preparation of the draft EIS since the Corps can begin analysis, assessment, and evaluation on public comments as they are submitted and the draft EIS is not due for at least two years (2018).					1
37			public outreach	3) The Sierra Club requests that the Corps implement an extensive public outreach/participation program for the Study. The reason that an extensive public outreach/participation program is needed is					1

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				that this Study may result in the expenditure of 10's of billions of dollars, massive new infrastructure, significant environmental impacts, significant social and economic costs, and altered human environments that all coastal Texans (about 13 million), all Texans (27.47 million as of 2015), and all United States citizens (318.86 million as of 2014) will be interested and concerned about, are affected by, but will not know about or participate in if they are not informed. Since most of the money to pay for the Study is federal, since this is a federal project, since most of the money used to construct proposed alternatives may be federal, since federal policy, like protection of wetlands via the Clean Water Act is involved, it is reasonable that an extensive public outreach/participation program be implemented.					
38			request to include references for consideration	4) As a part of these comments, the Appendices attached provide additional input and information to answer the three questions in the April 5, 2016 email. The Sierra Club requests that these Appendices be given equal consideration as the comments in this scoping letter because they are an integral part of the Sierra Club's comments. The Sierra Club included reference to 26 individual references regarding a variety of topics. (NOTE: this list is available to the public upon request).					
39			request for copy of Draft EIS/Feasibility Report	5) The Sierra Club requests that it be sent a copy of the Draft EIS/Feasibility Study when it is complete. The Sierra Club prefers a hard copy of this document. If a hard copy is not available then the Sierra Club requests a CD copy. The Sierra Club requests a 90-day public comment period for the Draft EIS/Feasibility Study due to the significant nature of the proposal (multiple locations and alternatives), its geographic extent (the entire 367 mile Texas Coast), and the significant environmental, social, and economic impacts and their intensity that this proposal will cause if implemented (both positive impacts like possible ecosystem restorations and negative impacts like large, hard structure alternatives with vast footprints and significant direct, indirect, connected, cumulative, and systemic environmental impacts).					**1**
40			comprehensive evaluation should consider human root causes	6) The Study must be comprehensive and address how to restore the coastlines and habitats that have been altered and continue to be altered by humans. For instance, dams trap sediment in rivers/streams; jetties, rock groins, and other human structures catch sediments from the longshore current; marshes and coastal prairies are eroded by the Intracoastal Waterway; development occurs in the 100-year floodplains/storm surge areas and results in the destruction of beaches, marshes, dunes, coastal prairies, barrier islands, and	**1**	**1**		**1**	

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				other coastal habitats that act as storm buffers; rise of sea level due to the release of climate change gases impact the coastlines; wetlands, which soak-up and delay flood waters, are destroyed; etc. The Study must address the human root causes and not just the symptoms of population growth, development, habitat loss, erosion, wave, tide, current, storm/hurricane impacts on our coast.					
41			principles of study analysis	Question #1: What are the critical natural and human environmental problems and needs that should be addressed in the Draft EIS? 7) An underlying foundation is needed of ecological, social, and economic principles to guide the selection, planning, design, analysis, assessment, and evaluation of alternatives and environmental, social, and economic impacts. Certain principles are needed to ensure the success of this Study. Adhering to these principles will go a long way toward the conservation, protection, and preservation of natural habitats and a way of life on the Texas Coast. These principles include the following.		1		1	
42			concentrate development where residents live	8) Concentrate Development Where Residents Live and Work – Currently, much development has occurred on West Galveston Island and Bolivar Peninsula. These areas are vulnerable to storm/hurricane effects. It makes sense to step back and look for a new way. Concentration of development on East Galveston Island, where there is existing seawall, harbor, and city infrastructure makes good economic, environmental, social, and safety sense. The sea wall (ring dike) could be completed around the East end of the City of Galveston; protection of the Houston Ship Channel (HSC) via levees around industrial facilities and sensitive sites (like storage tanks); and concentration of development in existing built-up areas would protect many residents of Galveston Bay. Some sensitive areas, like wetlands, need protection on East Galveston Island. This can be accomplished with much less damage to Galveston's important beaches, dunes, coastal prairies, wetlands, and bays than development on West Galveston Island and Bolivar Peninsula. This principle should be followed wherever development exists along the Texas Coast.		1		1	
43			work with existing protective natural features	9) Work With Existing Protective Natural Features – The first line of defense against storms/hurricanes is natural protective features that are found along the Texas Coast. These natural protective features include barrier islands/peninsulas, beaches, dunes, wetlands, and coastal prairies and ridges. These natural protective features absorb tremendous amounts of wave energy and or store water		1		1	

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					PN	ALT	AE	EC	CC
				during storms/hurricanes. Barrier Islands/peninsulas move shore-word as sediments are pushed across coastal ridges to back bays. This natural sediment transport system feeds the maintenance and protection of wetlands, beaches, and dunes. Hard structures often destroy beaches and dunes and interrupt this natural sediment transport system. Beach re-nourishment, if adequate sands can be found close by, may enhance the natural sediment transport system.					
44			ensure natural amenities are preserved	10) Ensure that Natural Amenities are Preserved – People visit and live on the Texas Coast because they want beaches, open vistas, wildlife, and sea life. People love to walk the beach, watch birds, fish, and hang out in the wind, sun, and water. People like to see a porpoise cruise or mullets jump in the Gulf of Mexico (GOM). The rare Kemp's Ridley Sea Turtle and Piping Plover nest or visit our beaches. Protection of these natural amenities protects the Texas Coast and people's quality of life. Any solution must conserve, protect, and preserve these natural amenities or places like Galveston Island and Bolivar Peninsula will suffer over the short and long-term. Destruction of beaches to protect houses means our coast will no longer be our coast. To ensure that natural amenities are preserved studies must be done before alternatives are conceptually or otherwise planned, selected, and designed to document ecologically sensitive areas. Alternatives must avoid ecologically sensitive areas and be built around them in such a way that they are not hindered, degraded, or destroyed. Inadequate and ineffective mitigation implementation, after alternatives have been planned, designed, and selected does not work. This process leaves coastal ecosystems weakened and less effective with natural protective features disrupted so they cannot function well.		**1**		**1**	
45			sustainable solutions	11) Implement Solutions in a Respectful, Sustainable, and Economic Manner – Long-term protection for the Texas Coast requires sustainable and economic solutions. For example, San Luis Pass, is one of the few natural passes left that is able to function with the existing natural sediment transport system on the Texas Coast. Interruption of this natural sediment transport system so that replenishment sand is reduced, cannot move, or is sent elsewhere will create further erosion problems and degrade the incredible marsh, mudflat, and shallow water areas that make this place so irresistible to beach combers, fishers, and boaters. San Luis Pass should be protected as a sensitive ecological area so that "Ike Dike" and other alternatives do not alter its features and affect a wider area		**1**		**1**	

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				like West Galveston Bay, Mud Island, Bastrop Bay, Christmas Bay, Cold Pass, Drum Bay, and Follets Island.					
46			learn from mistakes	12) We Must Learn From Our Mistakes – Years ago there was a proposal to build a ring levee around the City of Galveston. Only the seawall was built. The City of Galveston, during Hurricane Ike, flooded because there is no bay-side levee. A ring levee makes sense for very developed and densely populated areas like the built-up portion of the City of Galveston. Storm surge does not just come from the GOM. Winds generate storm surge on both Galveston Bay and the GOM. Massive sea walls will not protect the City of Galveston from storm surge that comes from Galveston Bay. We must learn from our mistakes. Sea level rise makes a ring levee an important feature for the East end of the City of Galveston and Galveston Island.		**1**		**1**	
47			local solutions, local responsibility	13) Local Solutions Require Local Responsibility – Since the focus is on local shoreline protection for the Texas Coast local sources must take the economic, social, and environmental responsibility to solve these problems. Our local governments and developers did not heed the call that we should not develop in vulnerable floodplains and hurricane surge areas. We must take responsibility because we encouraged development so that people would live in harm's way. This misguided policy, which continues, requires vast public subsidies so that people and their private property are allowed in vulnerable areas. Land development, where it is appropriate, must be done in a more sensible manner including set-backs, stronger building codes, reduction in publicly subsidized hurricane and flood insurance, storm surge easements, migration buffers, no construction in particularly vulnerable and environmentally sensitive areas, buy-backs, local/state designated funds to acquire vulnerable developments (planned withdrawal), and other solutions that make good economic, social, and environmental sense. But first we must take responsibility for the actions that got us into this mess. We must not repeat our mistakes.		**1**		**1**	
48			work with nature; create & expand wildlife refuges, national seashores, recreation areas	14) We Must Work With Nature – The more we oppose Nature and take a "we shall conquer" attitude the more we endanger ourselves and those we love. Much of the Texas Coast is not densely populated. Examples include parts of Bolivar Peninsula, West Galveston Island, the coast between Sabine Pass and Winnie, the northern shoreline of West Galveston Bay, Follets Island, the area between Corpus Christi and Laguna Atascosa National Wildlife Refuge, Matagorda County, etc. It makes sense to keep people out of harm's way by acquisition, protection, and restoration of natural		**1**		**1**	**1**

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				landscapes and ecosystems including beaches, dunes, coastal prairies, and marshes. The creation or expansion of national wildlife refuges, national seashores, national recreation areas (like the proposed Lone Star Coastal National Recreation Area), state parks, and wildlife management areas make sense in these vulnerable areas.					
49			those who profit should pay; protect Huston Ship Channel	15) Those Who Profit and Benefit Must Pay – The HSC is important and must be protected. The responsibility for that lies with channel companies who are publicly traded and privately-run as well as local governments. These companies should spend their monies to protect their investments. Should the public privatize our money to subsidize channel companies' risk and responsibility? Channel companies, either separately or together, can afford to build new levees or strengthen and increase the height of existing levees along with some help from local governments. Construction of a gate at the entrance of the HSC to Galveston Bay near Morgans Point may make sense. The Port of Houston and East Harris County Manufacturers Association could sponsor, with channel companies and local governments, a levee district. This same strategy could be implemented in the Orange-Port Arthur-Beaumont, Chocolate Bayou, Freeport, Victoria, Corpus Christi, and Brownsville areas.		**1**		**1**	**1**
50			coastal protection plan	16) Plan for the Future – What is needed is a Coastal Protection Plan (CPP). This Plan would give everyone on the Texas Coast, all other Texans, and citizens of the United States a way to produce our vision for the future. All interested people would participate and at the end of the process we would all be united, going in the same direction for funding and implementation. The assumption is that the Coastal Texas Protection and Restoration Study will produce that plan. But this will occur only if we all join together equally, with full transparency, participation, and cooperation to create a more natural, beautiful, and safer Texas Coast for the future. If we do not, the future that we create, along with the additional impacts of climate change, will make living on the Texas Coast tenuous and less safe at best. The choice is ours.		**1**			**1**
51			preservation; coastal erosion	17) What a CPP should contain – The Study should include the following: 1. The preservation of Galveston Island and Bolivar Peninsula and other parts of the Texas Coast should be part of the Study. The Study would address coastal erosion/accretion; restoration/preservation of natural erosion/accretion processes so that they function naturally or more naturally than currently; preservation of natural ecosystems; steer development away from		**1**		**1**	

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				more vulnerable natural coastal areas and those areas that are more vulnerable to storm/hurricane.					
52			structural solutions; adverse impacts of structures	2. Compatible, hard, structural solutions may be found in developed areas, for example, near the seawall in the East End of the City of Galveston. No artificial structures should be allowed to impede natural currents, sediments, organic matter, and salinities of Galveston Bay or other bays/estuaries, or the access to bays/estuaries by marine organisms that depend upon these features.		1		1	
53			protect natural features & organisms	3. The Study must protect shoreline features that provide natural erosion protection like beaches, dunes, prairies, offshore sand replenishment areas, wetlands, freshwater inflows that bring in new sediment, and habitat for endangered species (Kemp's Ridley Sea Turtles, Piping Plovers, Whooping Cranes, etc.).		1	1	1	
54			protect shoreline features & organisms	3. The Study must protect shoreline features that provide natural erosion protection like beaches, dunes, prairies, offshore sand replenishment areas, wetlands, freshwater inflows that bring in new sediment, and habitat for endangered species (Kemp's Ridley Sea Turtles, Piping Plovers, Whooping Cranes, etc.).		1	1	1	
55			Ike Dike impacts	5. The Study must ensure that adjacent and nearby areas do not have their shorelines negatively impacted by Study alternatives. An example would be how the "Ike Dike" would affect the San Luis Pass area and ecosystems to the west of this alternative.		1		1	
56			Texas Open Beaches Act	6. The Study must ensure that the public's Texas Open Beaches Act and its "rolling easement" access for public recreation and protection of existing public lands are enhanced and not diminished.		1		1	1
57			environmental impacts and mitigation	7. The Study must assess and determine the environmental impacts and mitigation for these impacts due to the encouragement of additional development in flood/storm prone areas along the Texas Coast caused by Study alternatives.			1	1	1
58			protect scenic beauty	8. The Study must protect the scenic beauty of Galveston Island, Bolivar Peninsula, and the rest of the Texas Coast.		1	1	1	
59			do not encourage development	9. The Study must not encourage further development on more vulnerable natural coastal areas that are more flood/storm prone (like West Galveston Island and Bolivar Peninsula) which puts more people; property; and sensitive areas in danger and in harm's way.		1		1	
60			shoreline protection	18) Governmental Shoreline Protection – For this Study, shoreline protection is a costly, socially important, environmentally sensitive, and politically tricky business. That is why it requires more than an "Ike Dike". Shoreline protection must be based upon: 1. All levels of government adopt the foundation policy that we all must work with, and not against, Nature.		1			1

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61			public involvement	2. All levels of government are transparent and inclusive of all people for public input, participation, and outreach decision-making processes and that these processes are broad, provide substantial time and opportunities to comment, and proactively reach out and solicit input from all communities including environmental justice, minority, low income, and working class communities.		1			1
62			adopt policy protect wetlands	3. All levels of government adopt the policy which maximally protects wetlands, which store and filter water during rain/storm events. All levels of government would intercede in wetlands dredge/fill permit process on behalf wetlands protection and the avoidance, minimization, and mitigation of all wetlands losses.				1	1
63			adopt buy outs policy	4. All levels of government adopt the policy of moving from an insurance and disaster relief process, in the 100-year floodplain/storm surge zone, to a buyout and environmental protection/restoration process.					1
64			adopt policy immediate cleanup of HTRW	5. All levels of government adopt a policy which requires immediate clean-up of existing hazardous waste/superfund sites near the coast and requires the owners of waste sites build levees that will not be breached by a Category 5 Hurricane.					1
65			remove incentives to develop in 100 year floodplain	6. All levels of government adopt the policy which gradually removes governmental incentives to develop in the 100-year floodplain/storm surge zone.					1
66			adopt policy protect and expand natural areas	7. All levels of government adopt the policy to support protection and expansion of existing and additional natural areas along our coasts and in our floodplains.					1
67			do no harm	19) Do No Harm – A key concept that the Study must reflect is that of "Do No Harm". Erosion or other impacts must not be made worse somewhere else by Study alternatives. Long-shore sediment loads must not be reduced downstream from the project location.		1			1
68			Highway 87	20) Highway 87 Area – The Study should not support projects that destroy, degrade, or alter beaches, dunes, and wetlands along Highway 87. Highway 87 cannot be justified in the location it was in. Movement inward will destroy significant wetlands, prairies, and alter wetland hydrology for a non-water dependent action under Section 404(b)(1) guidelines for dredge/fill permits.	1	1			
69			do not support hard projects	21) Hard Projects – The Study should not support, in most cases, hard projects like seawalls, extensive rock groins, jetties, or similar projects. These projects cause further losses of shoreline and beaches and require more shoreline erosion control. Only in specific circumstances should a "hard project" be considered for implementation and it should be kept as small as possible to reduce the environmental degradation that ultimately is caused.		1			

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70			natural or soft projects	22) Natural or Soft Projects – The Study should support the use of more natural or soft projects like marsh planting/restoration, some beach re-nourishment, buying lands to serve as a storm/erosion and climate change migration buffers dune restoration, and offshore insertion of flexible materials to assist in sediment dropout. Even soft projects can have environmental impacts if not located properly or if sources of beach re-nourishment sand are in biologically important areas.	1	1			1
71			cumulative impacts of reservoirs	23) Sediments Trapped in Reservoirs – In cumulative impact analysis the Study must consider the impacts that reservoirs have in trapping sediments and how this affects shoreline stability. The Study should determine how these trapped sediments can be released in an environmentally safe manner and returned to streams/rivers and the Texas Coast.		1		1	
72			Gulf Intracoastal Waterway	24) Gulf Intracoastal Waterway (GIWW) and Port Projects – The Study must analyze the cumulative impacts that erosion of the GIWW and dredging of ports has had on the entire Texas Coast and how this erosion and dredging impacts can be stopped and damage mitigation implemented. The Study must assess how trapping sediments by port projects and waterway improvements can be released in an environmentally safe manner and returned to the longshore current. The Study must analyze, assess, evaluate, and mitigate the cumulative impacts that the GIWW and ports have had on shoreline erosion and coastal storm protection. Some of these impacts include the loss of marshes and coastal prairies and trapping sediments.		1		1	
73			natural processes	25) Human Activities that Create Erosion – The Study should allow natural shoreline erosion/accretion processes to operate and must not encourage human activities that exacerbate shoreline erosion.		1		1	
74			protect natural dunes	26) Natural Dunes – The Study should assess protection of natural dunes that exist without resort to massive human erosion control methods.		1		1	
75			stop building in 100 year zone	27) 100-Year Floodplain/Storm Surge Zone – The Study must assess how continued building in 100-year floodplain, the 100-year storm zone, dunes, beaches, and marshes can be stopped. The Study must ensure that activities connected with the Study and other associated projects do not encourage development that causes shoreline erosion. The Study, in many cases, should not focus on protection of homes/commercial properties for persons who live in the 100-year floodplain/storm surge zones. People know the risks entailed by living near the GOM. Public works projects that protect the few, many of whom can afford to protect themselves or move elsewhere		1		1	1

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				(those with second homes and with high incomes), and force the many to pay for this lifestyle are not in the public interest. Subsidizing these actions ensures further destruction of the natural flood protection and erosion control features of the land including beaches, marshes, prairies, dunes, wetlands, riparian zones, and other vegetated areas.					
76			protect wetlands	28) Wetlands Protection – The Study must assess protection of existing riparian (bottomland) wetlands, freshwater wetlands, brackish wetlands, saltwater wetlands, and all non-jurisdictional wetlands which assist in the control of flooding or shoreline erosion.		1		1	1
77			direct, indirect and cumulative impacts	29) Cumulative Environmental Impacts – The Study must assess, analyze, and evaluate all cumulative impacts and direct, indirect, connected, secondary, and systemic impacts. The Study must use the Council on Environmental Quality's, "Considering Cumulative Effects," as a guide to conduct the cumulative impacts analysis.			1	1	1
78			Bolivar Bridge	30) Bolivar Bridge – The Study should not support a bridge from Galveston to Bolivar Peninsula or similar projects at other locations on the Texas Coast. Bridges exacerbate shoreline erosion directly, by design and operation, and particularly indirectly due to the impetus given to development in coastal prairies, rangelands, wetlands, and marshes on Bolivar Peninsula and at other locations. Bridges put more people in harm's way. Bridges result in the loss of important ways of life and destroy natural erosion control features like beaches, dunes, marshes, prairies, wetlands, and vegetated areas.		1		1	
79			planned withdrawal	31) Planned Withdrawal from the Shoreline – There is no shame in admitting that "Nature Bats Last". Many times human activities exacerbate the very problems we attempt to solve. It should be a major principle in this Study that "planned withdrawal" from the shoreline is not defeat but victory. This is a reasonable acknowledgment of the problem, makes sense, and should be vigorously pursued as an alternative and a significant part of every alternative.		1			
80			list map environmentally sensitive areas	32) Environmentally Sensitive Areas List/Map – Before any alternatives are chosen the Study should prepare a list/map of all environmentally sensitive areas along the shoreline (from the GOM to 30 miles inland). All alternatives that are considered must, to the maximum degree possible, avoid environmentally sensitive areas and mitigate at least 2:1 (in acres and function) for any damage, degradation, disruption, or destruction that occurs to these areas due to a proposed alternative. The list/map should include information from sources like the "Oil Spill Planning and Response Atlas, Upper Texas Coast" as prepared by the Texas General Land Office (TGLO) and National Oceanic			1		

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				and Atmospheric Administration (NOAA) and should include a work group with the Environmental Protection Agency, TGLO, NOAA, Texas Parks and Wildlife Department, Texas Commission on Environmental Quality, U.S. Fish and Wildlife Service, National Resources Conservation Service, Texas Railroad Commission, Texas State Soil and Water Conservation Board, Non-Governmental Organizations, appropriate state and local governments and citizens represented. The list/map should be ground-truthed and released to the public. Public hearings should be held so that people can provide specific comments about where environmentally sensitive areas are located on the Texas Coast.					
81			prepare list of 49 separate studies	33) Environmental Studies – The Study should prepare a "list of studies" that must be done before alternatives are chosen. Otherwise momentum to support an alternative, like the "Ike Dike", overwhelms the process and proper analysis, assessment, and evaluation will not occur. Below are some of the studies that should be conducted for the Houston-Galveston Area before any alternatives are chosen for the National Environmental Policy Act (NEPA) EIS process. The same or similar studies should be conducted for the Orange-Port Arthur-Beaumont, Freeport, Victoria, Corpus Christi, Brownsville, and other areas on the Texas Coast. NOTE: the request includes a list of 49 specific studies including: ingress/egress of marine organisms, scouring/shoaling of Bolivar Roads, endangered species, habitat fragmentation, toxics, borrow material and others. This list is available upon request. Similar research and studies should be conducted for other areas along the Texas Coast.		**1**	**1**	**1**	**1**
82			geohazards map	34) Geohazards Map – The Study should prepare a "geohazards map" like the one that was prepared for the City of Galveston to guide the creation, planning, design, and selection of alternatives. A "geohazards map" should be used to avoid geohazards and sensitive areas and do nothing to make them worse. A source for "geohazard maps" is, "Geohazards Map of Galveston Island, Texas", James C. Gibeaut, Thomas A. Tremblay, Rachel Waldinger, Edward W. Collins, Rebecca C. Smyth, Williams A. White, Tiffany L. Hepner, John R. Andrews, and Roberto Gutierrez, Bureau of Economic Geology, April 2007.		**1**	**1**	**1**	
83			natural sciences foundation of decisions	35) The Study must ensure that biological, ecological, geological, botanical, limnological, climatological, and other natural sciences are the foundation for decisions about what and what not to do. Humans have upset the natural shoreline and river/stream erosion/accretion processes so they do not function as they once	**1**	**1**	**1**	**1**	

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				did. Humans have also placed themselves in "harm's way" so that natural processes (like storms/hurricanes) endanger them. Humans have altered these processes to resolve the way we interfere with them to benefit some of us. This has not worked. Now we want to further alter these natural processes in very significant ways, with little research or knowledge about what will happen (the law of unintended consequences, blow-back, for every action there is an opposite and equal reaction, etc.) if we do so.					
84			adaptive management	Instead of making plans for large, hard structure projects, the Study should show over time how we can understand what the natural ecosystems are telling us and apply our hand lightly. Smaller, adaptive management changes that restore ecological processes or their functions and give time to determine their effectiveness are needed. Research is needed so that we do not accidentally alter important ecosystems, like parts of Galveston Bay. It may take many years to undo our impacts or we may never be able to undo the impacts.	1	1		1	
85			Climate Change	36) The Study must not ignore climate change. Climate change has altered existing local ecosystems and makes it more difficult for plants/animals to adapt successfully to changed ecosystems across the landscape. The Study should have a climate change Resilient Habitats Plan (RHP). The RHP assesses the biological and ecological elements of the Study area and the effects that climate change has had and will have on the Texas Coast where alternatives may be implemented. The RHP would assist plants/animals/ecosystems to adapt to climate change and would require monitoring of changes and mitigation measure effectiveness. The RHP would be based on: 1. Protection of existing functioning ecosystems in the Study area. 2. Reduction of stressors on the ecosystems in the Study area. 3. Restoration of natural functioning ecological processes in the Study area. 4. Use of natural recovery in the Study area. 5. Acquisition of buffers, corridors, and core reserves to expand and ensure connectivity of ecosystems in the Study area. 6. Intervention to manipulate (manage) ecosystems in the Study area. 7. Reduction of climate change gases in the Study area.		1	1	1	
86			sea level rise	The Study must acknowledge sea level rise and look at scenarios that are best and worst-case. At the very least a 100-year timeframe should be used in the Study. Probably a 500-year timeframe is better due to temperature, rainfall, drought, and sea level rise changes that will occur. Recent research has shown that sea level rise is increasing at a faster		1	1		

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				rate than predicted 10 years ago. According to experts, the Intergovernmental Panel on Climate Change (IPCC) has underestimated future sea level rise. The likelihood of higher emission scenarios has become more likely in recent years and the result by the end of 2100 includes an almost a 4 foot rise in sea level and 6.5 to 9.8 foot rise by 2300. (Appendix 10, "Experts say the IPCC underestimated future sea level rise", John Abraham, The Guardian, December 4, 2013 and "Rising Waters: How Fast and How Far Will Sea Levels Rise?", Nicola Jones, October 21, 2013, environment360)					
87			sea level rise studies	Some studies refer to sea level rise by 2100 at 1 to 4 feet with an uncertainly range of 0.66 feet to 6.6 feet. This means that a much greater sea level rise could occur, at least double over earlier estimates, in the next 100 years. (Appendix 11, "Future Climate Change," U.S. Environmental Protection Agency, last updated February 23, 2016, http://www3.epa.gov/climatechange/sceience/future.html) and "Sea-level rise could nearly double over earlier estimates in next 100 years", March 30, 2016, Science Daily) Climate change means, for the Houston-Galveston Area in all probability, greater numbers of large precipitation events and potentially more and or more intense storms/hurricanes. These predicted changes should be considered with regard to any impacts they have on proposed alternatives. Additional more severe droughts may also occur.		**1**	**1**		
88			hard structures and sea level rise	Although a hard structure (levee, T-wall, etc.), may be built to a certain specification, if sea level rises and other climate change impacts occur over a 100-year timeframe, the hard structure's effectiveness will degrade or diminish. The Study must explore this concern and state plainly how much degradation of alternative effectiveness will occur. The public and decision-makers do not know what the efficacy is of potential alternatives as they age over their 100-year lifetime. In other words, the public and decision-makers do not know what they get for their money in 100 years. With costs of 6 to 10 billion dollars or more it is even more important that the public and decision-makers be informed without fear-based presentations. The public and decision-makers must have all information about adequacy of operation and promised ability to withstand environmental impacts when hurricanes hit the coast every 20 years or so (probably 5 hurricanes in 100 years) in addition to storms that are not hurricanes but are significant due to their shoreline impacts.		**1**	**1**	**1**	

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89			construction & storms	37) The Study must address how potential alternatives will be affected during the 15 to 20 years of construction time, when storms/hurricanes hit the Texas Coast and the construction site.		1		1	
90			funding	38) It is very important that the public and decision-makers know who will fund potential alternatives and how much the actual planning, design, construction, finance, operation, maintenance, repair, and replacement costs are. The public and decision-makers must have information that states how accurate cost estimates are, particularly since estimates are for construction done over several decades in the future, involve extremely large structures, and involve highly complex engineered potential alternatives.		1			1
91			alternative implementation	39) The Study must provide potential modular/partial alternatives that can be implemented as with other alternatives as a group over time if all money is not available from federal or other sources or the money takes a long time to be approved and then appropriated. The source of funds and how those funds will be provided alerts the public and decision-makers about what realistic finance costs are. The public and decision-makers must know all costs associated with the potential alternatives (planning, design, construction, operation, maintenance, finance, repair, and replacement) so that they are not pushed to support "A pig in a poke". Complete transparency is crucial during the analysis process.		1			
92			modular alternatives	40) The Sierra Club supports in the Study the analysis of alternatives that are a collection of potential modular/partial alternatives. In this way, the Study can more easily show how different areas can be addressed, what their cost is, and what their environmental impacts are.		1			
93			consider all reasonable alternatives	The Study must consider "all reasonable alternatives". A series of potential modular/partial alternatives, that can be implemented over time, as money is available, which are less environmentally destructive, that address storm surge, erosion, and ecological problems comprehensively, and are brought together and considered as one or more potential alternatives that can be implemented to reduce damage over time acceptably must be considered.		1			
94			protection of Houston Ship Channel	One potential partial alternative addresses the protection of the HSC. The Study must address why, with government assistance and regulatory backing, large industrial companies with petrochemical plants and oil refineries along the HSC cannot totally or partially finance individual or joint levees to protect their plants or parts of plants (storage tanks) or in an association (like a levee district) fund a		1			

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				levee to protect the entire HSC district (the Port of Houston and East Harris County Manufacturers Association could assist with such an alternative).					
95			planned withdrawal	The Study must analyze a potential partial alternative that implements "planned withdrawal" on certain parts of the Texas Coast that are particularly vulnerable, expensive to protect, have relatively few people to protect, and whose protection would cause great additional environmental damage. For example, some of these areas include Bolivar Peninsula, West Galveston Island, and Shoreacres or similar smaller communities.		**1**			
96			buyouts	These areas are in extremely vulnerable positions with regard to storm surge and sea level rise and place an environmental and economic burden on all other citizens in the Houston-Galveston Area. It would make more sense to buy out these residences and commercial establishments and allow the barrier island, barrier peninsula, beach, dune, freshwater and saltwater marsh, and prairie ecosystems to function with the natural sediment transport system on the coast and act as a storm surge buffer. These natural coastal ecosystems (natural communities) have evolved with storms/hurricanes and will re-heal themselves or be altered to another storm surge compatible ecosystem if we allow them to do so. There should be several buyout alternatives. Buyout alternatives should not just be defined as selective but should be "significant" and "large" because there are a considerable number of homes, businesses, and properties that are in danger and more that will be in danger in the future due to sea level rise (climate change). One option for some buyout alternatives is to focus on the removal of weekend homes. The Study should have alternatives that are not overwhelmingly structural in nature so a more balanced approach is presented. The Study must produce a unbiased and fair range of reasonable alternatives. Alternatives that have little chance of actually being chosen and implemented should not be chosen.		**1**			
97			selection criteria	The Study must state why alternatives studied have been chosen, what criteria were used to make such decisions and why these criteria were chosen. Criteria used to choose alternatives should include how the alternatives chosen will impact bottomland hardwood, cypress-tupelo swamps, and other wetlands in the Sabine River, near Sabine Lake, on the Neches River, in Orange County, on Adams Bayou, on Cow Bayou, in Big Thicket National Preserve, etc.		**1**			

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Comment #	Person /Agency	Date	Theme of Comment	NEPA Scoping Comment (may be paraphrased or summarized)	EIS Section Where Comment Could be Addressed				
					PN	ALT	AE	EC	CC
98			cumulative impacts	41) The Study should rigorously address cumulative and systemic environmental impacts so that the synergistic sum of effects is known in the individual area and wider area where alternative will be built. For instance, the Study must show how the entire Texas Coast shoreline will be affected if significant projects are constructed in the Orange-Port Arthur-Beaumont, Houston-Galveston, Chocolate Bayou, Freeport, Victoria, Corpus Christi, Brownsville, and other areas. The total, cumulative impacts that occur on the shoreline of Texas along its entire 367 mile length must be analyzed.				1	
99			cumulative impacts	42) With cumulative or connected effects, their links to other proposed projects and their environmental impacts must be considered. An example is the Gulf Coast Community Protection and Recovery District's (GCCPRD) Phase II Report for the Storm Surge Suppression Study (SSSS) has proposed an "Ike Dike" alternative with a gate at Bolivar Roads that will have a sill depth of 60 feet. This would allow deepening of the HSC to 60 feet. This would be 15 feet deeper than the current authorized HSC depth and would allow huge Panamex ships into the HSC and alter Galveston Bay significantly. If such specifications are allowed then the attendant connected and cumulative environmental impacts should be presented and analyzed.				1	
100			natural processes	43) Coastal ecosystems have evolved to adapt to and change with storm surge. When we talk about damage to these ecosystems from storms/hurricanes we forget that they are resilient and that changes to these ecosystems due to storms/hurricanes are not bad but the way natural adaptation occurs in the coastal zone. We also forget about the benefits that storms/hurricanes provide for these coastal ecosystems. New habitats for fish/wildlife are created, new sand/sediment is provided for marshes, new inlets are created that provide connections to bays, estuaries, and the GOM, etc. Humans may look at these changes as bad but ecosystems don't and simply adapt, change, and evolve as the resilient "communities of life" that they are. Over time, and we are talking Nature's time and not human time, oysters will increase/decrease, seagrasses will increase/decrease, beaches will increase/decrease, marshes will increase/decrease, dunes will increase/decrease. This is the way these ever changing coastlines naturally operate. Humans must not substitute their views and desires for what the geological, biological, and ecological processes desire. Humans, instead of keeping out of harm's way and allowing the natural processes to work, want to interfere, manipulate, and stabilize an inherently dynamic and every-changing set of natural processes. Over the long-term this will not work for humans or		1	1	1	

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				coastal ecosystems. The positive impacts of storms/hurricanes must be analyzed, assessed, and evaluated in the Study and the information provided to the public and decision-makers in an unbiased fashion.					
101			subsidence	44) It is of great concern that some counties, like Jefferson, Chambers, and Orange, have no subsidence data and do not believe subsidence is a concern in their area. This means that any subsidence due to water withdrawal, oil/gas withdrawal, or sediment deposition is ignored. This is data should be acquired and the Study should use it in the analysis of alternatives. A "regional average" of subsidence should not be used in the Study. Because subsidence has occurred differently in different places (is localized) these differences must not be lost by an average when looking at subsidence and relative sea level rise. The Sierra Club recommends that a more conservative value for sea level rise (higher sea level rise) be used in the Study. Melting of the Greenland ice-sheet and Antarctica is occurring much faster than was anticipated 10 years ago. Recent concerns expressed by some scientists are that we have underestimated what sea level rise will be along with increasing thermal expansion of water. A worst-case sea level rise scenario should be modeled to determine how any proposed alternative will be affected by this worst-case sea level rise in 100 years. (Appendix 12, "Climate Disruption in Overdrive: Submerged Cities and Melting That "Feeds on Itself"", Dahr Jamail, Truthout Report, March 29, 2016)		**1**	**1**	**1**	
102			storm surge	45) The Study must examine that storm surge will still be created in Galveston Bay even with an "Ike Dike" alternative. This occurs because of the long fetch (distance of water between shorelines) that exists in Galveston Bay. Galveston Bay is 31 miles long, 17 miles wide and averages about 9 feet deep. (Appendix 13, "Galveston Bay", Wikipedia, January 7, 2016) The Study should analyze what storm surge will be in Galveston Bay for all proposed alternatives. The Study must analyze storm/hurricane scenarios which move slowly or stagnate on the coast for several days (like Hurricane Carla in 1961) and therefore place extreme pressure on internal drainage and storm surge backwash. The results of modeling in these scenarios must be reported in the Study.		**1**	**1**	**1**	
103			rainfall	Recent rains occurred in March 2016 in East Texas and other southern coastal states and in Houston, Texas in April 2016, provide		**1**	**1**	**1**	

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				an opportunity to determine how rainfall events affect all alternatives, and should be modeled. 100-year and 200-year rainfall events are not sufficient tests particularly since climate change predictions are for Southeast Texas, for example, to have more and more intense rainfalls. A minimum of 500-year rainfall events should be modeled. (Appendix 14, "DOTD announces closure of I-10 at Sabine River", Eddie Scott, Tri-County Sun Times, March 24, 2016; "Texas governor visits communities engulfed by floods", David Warren, Associated Press, March 16, 2016; "Rising Rivers, Bayous Force Texas Evacuations", Insurance Journal, 2016)					
104			direct, indirect and cumulative impacts	46) The Study must ensure that all environmental impacts are covered including direct, indirect, connected, cumulative, and systemic. Some of the environmental impacts that must be analyzed, assessed, and evaluated. NOTE: there is a list of 19 individual items suggested for consideration of direct, indirect and cumulative impacts that are available upon request			1	1	
105			consideration of existing scientific work	47) The Sierra Club is concerned that existing scientific work may not be considered or used in the Study. The following sources of information should be used in the Study as well as the information in the Appendices. This list include 7 referenced studies. This list is available upon request.			1		
106			direct and indirect impacts	48) The Study should include both direct environmental impacts in acres and also indirect (secondary), connected, systemic, and cumulative impacts in acres so that the public gets a complete picture of spatial environmental impacts on Galveston Island, Bolivar Peninsula, and other areas on the Texas Coast				1	
107			sea turtles	49) The Study must not ignore sea turtles, in particular Kemp's Ridley Sea Turtle, which occasionally nests on the beaches/dunes of Galveston Island. The beach/dune habitat of this species will be negatively impacted by the Coastal Spine, as previously mentioned, due to increased erosion caused by water hitting the "dike" and eroding the beach. The same impacts will occur to Piping Plover winter habitat on Galveston Island and Bolivar Peninsula.			1	1	
108			sea level rise and barrier island movement	As sea level rises there must be sufficient land behind beaches so that the beach, dunes, freshwater wetlands, coastal prairie, and saltwater wetlands can move and retreat as the barrier island moves toward the mainland. The Coastal Spine attempts to glue the barrier island/peninsula in place, which will not succeed. This will result in loss of the beach habitat, degradation of the barrier island/peninsula, and significant degradation or even destruction of the Coastal Spine.		1	1	1	
109			100 year storm surge area	50) Almost all areas of Galveston Island and Bolivar Peninsula are in the 100-year storm surge area. This information along with 100-year			1		

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				floodplain must be documented, mapped, and presented in the Study.					
110			coastal spine	51) The Study must state how the west end of the Coastal Spine will be tied into the mainland at San Luis Pass. If the west end will not be tied into the mainland then the Study must state clearly and show how the Coastal Spine structure will be protected from storm surge and other storm flows and how the area around the west end of the Coastal Spine will be impacted by tides, storm surge, waves, and other wind/water forces that ricochet off the Coastal Spine and cause erosion/sedimentation.			1		
111			water quality and water circulation	The Study must address water quality conditions and water circulation. The GCCPRD Phase II Report stated that a 12-25% tidal amplitude decrease and a 10-25% tidal exchange decrease will occur. This level of change is significant.			1		
112			Bolivar Roads and Neches River Ship Channel	52) The Study must address narrowing of Bolivar Roads (HSC) and Neches River Ship Channel by placement of gates and how these gates (several different types) affect erosion, shoaling, and sediment movement in rivers, bays, or estuaries.			1		
113			artificial islands Galveston Bay	53) The Study must state how large the two artificial islands will be (acres), how much Galveston Bay bottom will be affected by the gates, and the extent of effects by gates on the Neches River bottom		1		1	
114			costs	54) The Sierra Club is concerned about employment of standardization and simplification techniques for costs. Because proposed alternatives will be unique their uniqueness will probably reflect higher costs. The Study should state where the more complex, difficult, and unique parts of proposed alternatives will be and then focus on realistic estimated costs for those and other aspects of the alternatives. Otherwise the proposed costs may be artificially low and mislead the public and decision-makers about how much the proposed alternatives cost.				1	
115			barrow operations	55) The Study must state what the environmental impacts will be for barrow operations including how many acres, what kind of land, what the condition of the land will be after the barrow operations, costs for moving the material, etc.		1		1	
116			pipelines/utilities	56) The Study must not assume that pipelines/utilities that have sufficient geometry will incur no further actions/costs. Unexpected difficulties and costs can occur with pipeline/utilities crossings especially if the gates permit ships that are 60 feet deep in the HSC. These are direct, indirect, connected, and cumulative environmental impacts that must be addressed.		1	1	1	

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					PN	ALT	AE	EC	CC
117			environmental impacts and costs	57) The Study must report the environmental impacts and costs that are associated with the proposed alternatives. A true benefit/cost ratio calculation should include these costs including the loss of beaches, dunes, wetlands, and coastal prairies in front of Coastal Spine that retreat and then disappear over time due to sea level rise as well as erosion caused by the Coastal Spine. The Neches River Gate will have bottomland hardwood forested wetlands impacts including losses, isolation, and or fragmentation of these important habitats.				1	
118			impacts to Big Thicket National Preserve	The Beaumont Unit of Big Thicket National Preserve (BTNP) is just north of I-10, near where some alternatives stop. There may be environmental impacts in the BTNP due to proposed alternatives including backed up floodwaters, altered flow regimes, sediment alterations, erosion alterations, wetlands and vegetation alterations, etc. The Study should analyze the potential environmental impacts on the BTNP due to proposed alternatives.				1	
119			damage categories	58) The Study must have damage categories that include parks and protected lands, both private/public. These lands may be destroyed, degraded, fragmented, and or isolated due to proposed alternatives. Environmental benefits will not be restored and are lost forever.				1	
120			expansion of petrochemical plants	59) The Study should not make the assumption that no growth in the size or number of industrial facilities will occur. There has been a massive expansion in petrochemical plants and refineries in the past 5-8 years. This will most likely continue in the future as market conditions change and companies take advantage to increase market share, promote internal efficiency, and reduce costs.			1	1	
121			debris costs	60) The Study should use cost figures for debris removal/disposal from Hurricane Ike since this is the storm that occurred most recently in our area and is a better predictor of costs than data collected elsewhere.		1	1	1	
122			benefit / cost ratio	61) The benefit/cost ratio only collects information on certain costs and benefits. Many environmental costs, what are called environmental services, either are not calculated or there is no method to calculate their value. The benefit/cost ratio is rigged to emphasize easily calculated human benefits/costs and not those that are associated with the natural environment. The Study should either not use the benefit/cost ratio or should include with it the cost for environmental services and a listing of these services if they cannot be calculated.		1			
123			impacts to bottomland hardwoods	62) The Study should compare how many acres of bottomland hardwood forested wetlands will be destroyed, degraded, isolated, and or fragmented for different proposed alternatives. Fragmentation effects must not be ignored for different proposed		1		1	

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					PN	ALT	AE	EC	CC
				alternatives. The potential impacts on BTNP must be analyzed for proposed alternatives.					
124			coastal spine and storm surge	63) The Study must state that the Coastal Spine will not eliminate storm surge in Galveston Bay. The Study must report what storm surge will occur in Galveston Bay even if the Coastal Spine is constructed. Storms/hurricanes have a 31 mile long and 17 mile wide Galveston Bay to push down on and create storm surge. The Study must state what will happen at the eastern and western ends of the Coastal Spine during storms/hurricanes. Additional erosion, sedimentation, circulation changes, etc. will occur in San Luis Pass and the lands west of the Coastal Spine. The Study must discuss fragmentation due to the Coastal Spine and how it will affect wildlife/plant populations and Galveston Bay.		1	1	1	
125			project induced impacts	64) The Study must state what will happen to lands, waters, wetlands, etc. that exist beyond the east and west ends of "dike" alternatives. The Study should address erosion, sedimentation, flooding, circulation of water, fragmentation and isolation of wildlife/plant habitats, etc.				1	
126			100 year impacts analysis	65) The Study must tell the full story about losses, environmental costs, and the benefits/values that will be impacted for the next 100 years via direct, indirect, connected, cumulative, systemic impacts. The Study must state what the costs are of continuing the current policy that encourages people to "live in harm's way (in the 100-year floodplain/storm surge area).			1	1	
127			pumps	66) The Study should state how large pumps will be, how they will be powered, what and how many back-up pumps or power systems will be used, and what additional air/water pollution will be created by these systems. The Study should state for pumps required to de-water the gate within a reasonable amount of time after flood water recedes, what a reasonable amount of time is. The Study should state how pumps for internal rainfall and stream/river flow when the gate is closed, will be powered, what and how many back-up pumps or power systems will be used, and what additional air/water pollution will be created by these systems. If pumps fail to close a gate and or remove water when the gate is closed the Study should state what the environmental impacts will be, what the cost is of failure, and how this will be mitigated.		1			
128			roads/bridges	67) The Study should state if new roads/bridges will be needed on land or over water to connect with roadways to Bolivar Roads and the HSC. The Study should show approximately where roads/bridges will be and the environmental impacts this will have				1	
129			transportation impacts	68) The Study should state what the impacts are of transportation of steel sector gates via barges to offsite maintenance/repair facilities.				1	

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					PN	ALT	AE	EC	CC
130			electrical systems, diesel storage tanks	With regard to electrical systems and back-up power generators, the Study should state how many will be needed, how large they will be, where they will be located, how many diesel storage tanks will be required, and what environmental impacts will be caused by the use and installation of this equipment.		1			
131			impacts of overland flows	69) The Study should analyze the impact on overland flow of proposed alternatives. Many local areas flood during rains even even though they are in an area that has existing storm surge protection. The disruption of the overland flow pattern and volume caused by each of the alternatives must be provided in the Study. The day-to-day rains that occur in our area, some very heavy and some very light, create overland flow patterns and regimes that will be altered by proposed alternatives.				1	
132			future conditions	70) The Study should state what assumptions are used to determine future conditions, what these future conditions are, and how far into the future the Corps looks. This is particularly important when it relates to sea level rise and other climate change effects. If future conditions are already taken into account (100 years or more in the future) then the Study should state what assumptions were used to address these future condition in the proposed alternatives. The Study should determine and tell the public and decision-makers what additional right-of-ways (ROWs), structural modifications, and constructions costs could arise from each alternative (cumulative actions) and their cumulative impacts.			1	1	
133			cost overages	The Study should provide the public with information about how accurate cost overage estimates are particularly since these will be calculated for construction done several decades in the future, involve extremely large structures, and involve highly complex engineered potential alternatives.		1			
134			Right of way	71) ROW valuations in the Study must take into account federal, state, local, and private conservation easements and protected lands and utility right-of-ways and their costs so that costs are not underestimated.		1		1	
135			models	72) A number of models will be used in the Study. All of these models are only so accurate/precise. The public and decision-makers should be told how accurate/precise each model is. This can be done by providing the plus or minus percent error that each model operates at. The cumulative plus or minus percent error for several models that operate together should also be provided so the public and decision-makers know how accurate the numbers are that each model provides.		1		1	

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136			significant resources	Question #2: What are the significant resources that should be considered in the Draft EIS? Significant resources may be negatively impacted by proposed alternatives. Some of these significant resources that must be analyzed, assessed, evaluated, and the environmental impacts avoided, minimized, and mitigated include: Sabine Lake; Sabine River; Neches River; Big Thicket National Preserve; Tony Houseman State Park and Wildlife Management Area; Texas Ornithological Society Sabine Woods; Cow Bayou; Adams Bayou; Taylor Bayou; Spindletop Bayou; Mud Bayou; Anahuac National Wildlife Refuge; Texas Point National Wildlife Refuge; Sea Rim State Park; Sabine Pass Battlegrounds State Historic Site; McFaddin National Wildlife Refuge; J.D. Murphree wildlife Management Area; Candy Abshier Wildlife Management Area; Smith Point; Oyster Bayou; East Bay Bayou; Elm Bayou; Bolivar Peninsula; Galveston Island; East Jetty; Big Reef; Turtle Bayou; Double Bayou; Double Bayou Park; Fort Travis Seashore Park; Appfel Park; Moses Lake; Galveston Bay Foundation (GBF) Burnet Bay Property; GBF Shipe Woods; GBF Texas City Property; GBF Wright Preserve; GBF Frost-Dean Preserve; GBF Moore Wildlife Sanctuary; GBF Pierce Marsh Reserve; GBF Rich Sanctuary; GBF Sweetwater Nature Preserve; Dickinson Bayou and Bay; Clear Lake and Clear Creek; Taylor Lake; Cedar Bayou; San Jacinto River; Trinity Bay; East Galveston Bay; West Galveston Bay;			**1**	**1**	
137				significant natural resources (continued): Galveston Bay; Lake Anahuac; Smith Point and James H. Robbins Memorial Park; Trinity River; Trinity River Delta and Wallisville Reservoir Recreation Area; Trinity River National Wildlife Refuge; Tabbs Bay; Scott Bay; Burnet Bay; San Jacinto Battleground State Historical Park and the Battleship Texas; Baytown Nature Center; City of Baytown Eddie V. Gray Goose Creek Wetlands Education Center; City of Seabrook Pine Gully Park; City of Shoreacres Heron Park; Houston Audubon Society (HAS) High Island Preserves (Boy Scout Woods, Eubanks Woods, Smith Woods, The Rookery, S. E. Gast Red Bay) ; Port Bolivar Light House; Artist Boat Coastal Heritage Preserve; HAS Bolivar Flats Preserve; HAS Horseshoe Marsh Preserve; HAS Mundy Marsh Preserve; University of Houston Coastal Center; Pelican Island; Galveston Island State Park; Chocolate Bayou; Chocolate Bay; Halls Bayou; Carancahua Bayou; Hitchcock Prairie; Scenic Galveston Virginia Point Preserve, John M. O'Quinn I-45 Estuarial Corridor, and other Preserves; The Nature Conservancy Texas City Preserve; San Luis Pass the Surrounding Area; Christmas Bay Coastal Preserve; Armand Bayou Nature Center and Coastal			**1**		

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				Preserve; Harris County Bay Area Park; Brazoria National Wildlife Refuge; Brazos River; Bastrop Bayou; Bastrop Bay; Drum Bay; Austin Bayou; San Bernard National Wildlife Refuge; Follets Island; Texas Parks and Wildlife Department Follets Island Preserve; Bryan Beach and Bryan Beach State Recreation Area; San Bernard River; Justin Hurst Wildlife Management Area; Pierce Ranch;					
138				significant resources (Continued):Colorado River; Big Boggy National Wildlife Refuge; Oyster Creek; Surfside and Quintana Beaches; Gulf Coast Bird Observatory Quintana Neotropical Bird Sanctuary; Jones Creek; Caney Creek; East Matagorda Bay; Tres Palacios Bay; Matagorda Bay; Matagorda Peninsula; Powderhorn Ranch State Wildlife Management Area; Matagorda County Birding Nature Center; Sargent Beach; Matagorda County Jetty Park; Palacios Marine Education Center Nature Trail; Matagorda Island; Mad Island Wildlife Management Area; Matagorda Island State Park and Wildlife Management Area; Guadalupe Delta Wildlife Management Area; Welder Flats Wildlife Management Area; Redhead Pond Wildlife Management Area; Goose Island State Park; Brazoria County San Luis Pass County Park; Brazoria County Brazos River County Park; City of Port Lavaca Port Lavaca Bird Sanctuary; Lavaca Bay; Calhoun County Magnolia Beach; City of Port Aransas Leonabelle Turnbull Birding Center; City of Port Aransas Wetland Park; Aransas National Wildlife Refuge; Nueces County Packery Channel County Park; City of Corpus Christi Hans and Pat Suter Wildlife Refuge City Park; City of Portland Indian Point Park; City of Corpus Christi Nueces River Park; Nueces County Hazel Bazemore County Park; Texas Department of Transporation Lavaca/Navidad Estuary Overlook; General Land Office (GLO) Egery Flats; GLO JFK Causeway Wetlands;			**1**		
139				significant resources (continued): Texas A&M University – Corpus Christi Nature Trail; City of Corpus Christi Wildlife Sanctuary; Mustang Island State Park; San Jose Island; Espiritu Santo Bay; San Antonio Bay; Matagorda Island Unit of Aransas National Wildlife Refuge; Copano Bay; Corpus Christi Bay; Aransas Bay; Nueces Bay; Mission Bay; Aransas River; Nueces River; St. Charles Bay; Padre Island National Seashore; South Padre Island; Laguna Madre; Laguan Atascosa National Wildlife; Baffin Bay; South Bay; Lower Rio Grande National Wildlife Refuge; Mouth of the Rio Grande; Boca Chica State Park; Bahia Grande; Kemp's Ridley Sea Turtle Nesting Beaches; Whooping Crane Habitat; Piping Plover Habitat; Any Other State or Federal Listed Endangered or Threatened Species Habitat; Land buffers for natural ecosystems to migrate to during sea level rise; Bottomland Hardwood Forests and Riparian			**1**		

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				Woodland Forests; Salt Marshes; Bird Rookeries; Tidal and Mud Flats; Brackish Marshes; Freshwater Marshes; Coastal Prairies; Bays; Estuaries; Seagrasses; Oyster Reefs and Hash Areas; Beaches; Dunes; Ecotourism; Commercial Fishing; Recreational Fishing; Canoeing/Kayaking; Crabbing; Nature Study;					
140			focus on reasonable alternatives	Question #3: What are the reasonable alternatives that should be considered in the Draft EIS? The Sierra Club supports in the Study the analysis of alternatives, including those that are a package or collection of potential modular/partial alternatives. In this way, the Study can more easily show how different areas will be addressed, what the cost is, and what environmental impacts are. The Study must consider "all reasonable alternatives". A series of potential modular/partial alternatives, that can be implemented over time; as money is available; which are less environmentally destructive; that address storm surge, erosion, and ecological problems comprehensively; and are brought together and considered as a comprehensive, integrated, package/collection that can be implemented to reduce damage over time acceptably, must be considered. Reasonable alternatives must not create a "false sense of security" and encourage further development in ecologically sensitive/dangerous areas like 100-year floodplains/storm surge zones. No one alternative will resolve our problems. Alternatives must be site specific, not damage natural, recreational, and tourist areas, and must "keep people out of harm's way".		**1**			
141			nonstructural alternatives	Alternatives should not focus on massive, structural, engineered projects which harm natural, recreational, and tourist areas. Alternatives should focus on non-structural solutions or structural solutions that are adapted to specific places and have low environmental impacts. Instead of fewer alternatives we need more alternatives so people have a choice and can see how different alternatives compare and work together or separately		**1**		**1**	
142			level of protection	It is crucial that the Corps state clearly what storm/hurricane category, storm surge level, and probability of risk is the standard that will be used to judge alternatives. The Corps should state what level of property loss is acceptable at which location. Different places may have different standards depending on what natural and human environments, their density, and quality, and other factors are at risk and the probability of the risk. The public, community, must be given choices and a clear explanation what to expect and what actual protection and damage will occur, particularly over the years as climate change and sea level rise worsens. The Corps must		**1**		**1**	

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				answer "where the cut-off is" for protection of residential and other developed areas since not all can be protected 100%, 90%, 80%, 75%, 60%, or any other percent of the time.					
143			reasonable alternatives	The Study must produce an unbiased and fair range of reasonable alternatives so that no alternatives are presented as "Trojan horses" with little chance of actually being chosen and implemented.		1			
144			alternatives	Solutions analyzed must make good economic, social, and environmental sense. First, we must take responsibility for the actions that got us into this mess. We must not repeat our mistakes.		1			
145			alternatives transparent selection criteria	The Study must state why the alternatives that will be studied have been chosen, what criteria were used to choose alternatives, and why these criteria were chosen rather than other criteria. Criteria used to choose alternatives should include how the alternative chosen will impact various ecosystems, for example, bottomland hardwoods, cypress-tupelo swamps, natural inlets, salt marshes, oyster reefs, other wetlands, etc. The Sierra Club is concerned that some alternatives are being looked at and will be rejected so that other alternatives appear more "reasonable". Without any criteria provided that are used to identify and scope the full range of alternatives, an explanation of why these criteria were chosen, survey/scoring sheets that show how these alternatives were ranked, etc., the public will have no information about how the screening/selection process and the method used for scoring operates and why it was chosen. Without this information the public is kept in the dark instead of having a transparent process.		1			
146			do not support Ike Dike	274) The Sierra Club does not support the alternative called the "Ike Dike", "Central Spine", or "Coastal Spine". This alternative will have tremendous environmental impacts on Galveston Bay ecosystems and will not prevent storm surge in Galveston Bay from having significant impacts on people. This alternative costs far too much (currently estimated at a cost of $6-8 billion but it possibly will cost $10-20 billion), and is being touted as a "silver bullet" to protect everyone and everything. Such "hype" raises false hopes in people and encourages further development in the 100-year floodplain/storm surge zone. This alternative does not keep people out of harm's way. The Corps should not study, choose, or implement this alternative.		1			
147			planned withdrawal	275) The Study must analyze a potential partial/modular alternative that implements "planned withdrawal" on certain parts of the Texas Coast that are particularly vulnerable, expensive to protect, have relatively few people to protect, and whose protection would cause		1			

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				great additional environmental damage. For example, some of these areas include Bolivar Peninsula, West Galveston Island, and perhaps Shoreacres, Surfside, and Quintanna. These areas are in extremely vulnerable positions with regard to storm surge and place a significant environmental and economic cost on all other citizens in the Houston-Galveston Area. It makes more sense to buy out these residences and commercial establishments and allow barrier island or peninsula, beach, dune, freshwater and saltwater marsh, and coastal prairie ecosystems to function with the natural sediment transport system on the Texas Coast. These natural coastal ecosystems (communities) have evolved with storms/hurricanes and will re-heal themselves or be altered to another storm surge compatible ecosystem if we allow them to do so.					
148			alternatives; protect Houston Ship Channel	276) A number of potential partial/modular alternatives should be studied which use individual or area levees around industrial plants/units (like storage tanks) to reduce the impacts of oil/chemical spills on the HSC, and in other ports or developed industrial areas. The HSC is important and must be protected. The responsibility for that lies with channel companies who are publicly traded and privately-run as well as local governments. These companies should spend their money to protect their investments. Channel companies, either separately or together, can afford to build new levees or strengthen and increase the height of existing levees along with some help from local governments or the State of Texas. Construction of a gate at the entrance of the HSC to Galveston Bay near Morgans Point may make sense. The Port of Houston and East Harris County Manufacturers Association could sponsor, with channel companies and local governments, a levee district.		**1**			
149			individual levees	277) A number of potential partial/modular alternatives should be studied which use individual or area levees around industrial plants/units (like storage tanks) to reduce the impacts of oil/chemical spills in other ports or developed industrial areas. Examples include the Chocolate Bayou industrial area and the Victoria Ship Channel area. 278) A number of potential partial/modular alternatives should be studied which use individual or area levees to protect population centers, residential areas, and commercial areas. Examples include Clear Lake/NASA area and the LaPorte area. 279) A number of potential partial/modular alternatives should be studied which use existing individual or area levees,that are improved		**1**			

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				via height and to some degree length, to protect population centers, residential areas, commercial areas, and industrialized areas. Examples include the existing Texas City, Freeport, and Beaumont-Port Arthur-Orange levees.					
150			environmental justice	280) A number of potential partial/modular alternatives should be studied which do not worsen and ultimately help resolve environmental justice problems for those who live near large public works and industrial facilities including working class, poor, and minority communities. If planned withdrawal is chosen then alternative which allow the integration of these communities with wider, more prosperous communities and which leaves these neglected populations better off then they were before they are moved.		**1**	**1**	**1**	**1**
151			planned withdrawal	281) A number of potential partial/modular alternatives should be studied which use planned withdrawal (buyouts) in areas where sensitive ecological lands exist and solutions are expensive to plan, construct, operate, finance, maintain, repair, and replace. Examples include Bolivar Peninsula, West Galveston Island, Follets Island, Chocolate Bayou, Hitchcock Prairie, and West Galveston Bay.		**1**			
152			alternatives that allow migration	282) A number of potential partial/modular alternatives should be studied which acquire buffers that allow marshes and other natural ecosystems to migrate inland as sea level rises. Examples include West Galveston Bay, East Galveston Bay, Trinity Bay, Follets Island, and Christmas Bay.		**1**	**1**	**1**	
153			buffers to natural ecosystems	283) A number of potential partial/modular alternatives should be studied which acquire buffers that allow natural ecosystems on federal owned lands to migrate inland as sea level rises. Examples include Padre Island National Seashore, Anahuac, Brazoria, McFaddin, Texas Point, Sand Bernard, Aransas, Lower Rio Grande Valley, Laguna Atascosa, Big Boggy, and other National Wildlife Refuges. 284) A number of potential partial/modular alternatives should be studied which acquire buffers that allow natural ecosystems on state owned lands to migrate inland as sea level rises. Examples include Galveston Island State Park, Sea Rim State Park, Goose Island State Park, Mustang Island State Park, J.D. Murphree Wildlife Management Area, Justin Hurst Wildlife Management Area, other state lands.		**1**	**1**	**1**	

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154			easements	285) A number of potential partial/modular alternatives should be studied which establish, via acquisition or easement, lands or buffers for natural ecosystems like for example in the SSPEED Center proposed Lone Star Coastal National Recreation Area.		1		1	1
155			low cost alternatives	286) A number of potential partial/modular alternatives should be studied which are as low cost as possible (to avoid costs in the tens of billions of dollars which require significant private sector, local, and state financial support) and that regulate, enforce, and or control more stringently land development, where it is appropriate, in a more strict manner including set-backs, floodplain management, stronger building codes, reduction in public subsidized hurricane related insurance or incentives, storm surge easements, migration buffers, prevents construction in particularly vulnerable and environmentally sensitive areas, uses local/state dedicated funds to acquire vulnerable developments (planned withdrawal), flood warning signs, public education, documentation in real estate documents of 100-year flood/storm surge zone probability and risk, and other lower cost strategies.		1			
156			buyouts	287) A number of potential partial/modular alternatives should be studied which focus on buyouts of residential, commercial, and other areas. These alternatives should not just be defined as selective but should also be "significant" and "large" because there are a significant number of homes, businesses, and properties that are in danger and more that will be in danger in the future due to sea level rise (climate change). One alternative for buyouts is to focus on the removal of weekend homes.					
157			mitigation	288) A number of potential partial/modular alternatives should be studied which mitigate, recover, and return trapped sediments to the longshore current on the Texas Coast that are held in lakes/reservoirs behind dams on rivers/streams. 289) A number of potential partial/modular alternatives should be studied which mitigate, recover, and return trapped sediments to the longshore current on the Texas Coast that are held behind jetties, rock groins, and other human structures. 290) A number of potential partial/modular alternatives should be studied which mitigate and restore marshes, coastal prairie, and other natural landscapes eroded by the Gulf Intracoastal Waterway (GIWW). Examples include the GIWW near West Galveston Bay, near Anahuac National Wildlife Refuge and High Island, near McFaddin National Wildlife Refuge, near Brazoria and San Bernard National Wildlife Refuges, and near Aransas National Wildlife Refuge.		1		1	1

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158			longshore transport	291) A number of potential partial/modular alternatives should be studied which removes and returns from ports/channels trapped sediments to the longshore current on the Texas Coast.		1		1	
159			barrier systems	292) A number of potential partial/modular alternatives should be studied which restore, protect, or re-nourish barrier islands/peninsulas, dune, marsh, coastal prairie, and beach systems. Examples include the area between Sea Rim State Park and High Island, Bolivar Peninsula, West Galveston Island, and Follets Island.		1	1	1	
160			alternatives and development	293) A number of potential partial/modular alternatives should be studied which require concentration of development in existing built-up areas. Examples include Texas City, Freeport, and Lake Jackson. 294) A number of potential partial/modular alternatives should be studied which concentrate development on the East Galveston Island (east City of Galveston), where existing seawall, harbor, and city infrastructure exists for economic, environmental, social, and safety benefits. A ring levee would be completed around the East end of the City of Galveston and tie into the seawall.		1		1	
161			modular alternatives	295) A number of potential partial/modular alternatives should be studied which determine which alternatives should be paid for by which governmental or private entities, under what circumstances, and under what conditions.		1			
162			Blue Carbon	296) Blue Carbon – The analysis, assessment, and evaluation of alternatives and this proposal should be extensive and comprehensive. The Sierra Club urges the Corps to consider as an alternative or part of an alternative using Blue Carbon as a way to restore certain areas of the Texas Coast. Both wetlands and coastal prairies store significant amounts of carbon dioxide in their stems and roots. This carbon stored can either be sold as credits to generate funds for ecosystem restoration and the creation of a "carbon neutral state" with regard to climate change emissions or retired permanently so that the carbon is stored long-term and perpetually. Appendix 22 consists of material the Sierra Club received recently (April 6, 2016) at the "Blue Carbon: A Management Tool for Conservation and Restoration of Coastal Wetlands" workshop. The Corps can contact Restore America's Estuaries for additional information about "Blue Carbon".		1		1	
163			systemic risks	297) Systemic Risks/Effects – The deterioration of the natural Texas Coast is due to systemic risks/effects of urbanization. While the Corps cannot resolve a global phenomena of development it can make a regional impact in Texas about the way we live and develop our coast and near coast environments.		1			

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				Appendix 23 is an article from Environment Magazine, March/April 2016,that discusses systemic risks and the effects that go along with them. The entire system of development and urbanization has broken down so that the 100-year floodplains, 100-year storm surge zones, and adjacent or upstream areas are at risk and have tremendous effects like over paving which causes flood water run-off quicker filled with non-point source water pollutants; placing people in environments that are riskier like 100-year floodplains and storm surge zones; use of public monies and other subsidies for these environmentally degrading and risky projects; fragmentation of wild, natural, and rural habitats via roads, urbanized areas, right-of-ways, etc., to inhibit and eliminate plant and animal presence and migration; etc. The Coastal Texas Protection and Restoration Study can be the light to show the way and an example of how to regionally begin to "turn the ship" and make better decisions that are less risky and environmentally damaging. The Corps should make as a goal for this Study to be that example of how to "turn the ship".					
164			Master thesis reference	In 2011 a Master's of Science Thesis was completed by a student in the Netherlands. Appendix 24 has this study about Ike Dike's effects on Galveston Bay. This document, while not comprehensive has some interesting information that the Corps should take into account. This information includes: additional referenes to hydrodynamic modeling, tidal prism, currents, sediement deficit, Ike Dike, water residency time, water quality, collected date, closure of San Luis Pass, tidal amplitude, sediment budget, changing hydrodynamics, vertical tide range.		1	1	1	
165			suggested reference: "Living by the Rules of the Sea"	316) An alternative that implements "Living by the Rules of the Sea", David M. Bush, Orrin H. Pilkey Jr., and William J. Neal, Duke University Press, 1996, using the 10 "Rules of the Sea" and the four element process. (Appendix 25) The 10 "Rules of the Sea" are described.		1	1		
166			suggested reference: "Living with the Texas Shore"	317) The Corps should use "Living with the Texas shore," Robert A. Morton, Orrin H. Pilkey, Jr., Orrin H. Pilkey, Sr., and William J. Neal, Duke University Press, 1983, in preparing alternatives and reviewing historically how areas have been affected by hurricanes and storms. (Appendix 26)		1	1		
167			do not rush study to meet self imposed deadlines	It is extremely important that the Corps not rush this Study due to a self-imposed deadline. The fate of Galveston Bay lies with Study as does the fate of other important Texas bays and coastal features. There are studies, research, analyses, assessments, and evaluations	1	1	1	1	1

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				that must first be done about where sensitive areas are located; what are the important ecological processes and functions that these sensitive areas have; how these sensitive areas may be affected by alternatives; what mitigation is possible or not possible for these sensitive areas; and what these sensitive areas will look and function like after a specific alternative has been constructed. Do this work, do it right, and take the time needed so see that the best job is done. The Sierra Club appreciates this opportunity to comment. Thank you. Brandt Mannchen					
168	Michael Janskey, EPA Region 6	5/2/2016	difficulty in providing a through list of significant issue	Thank you for the opportunity to offer input in response to the request by the U.S. Army Corps of Engineers to provide scoping comments as they develop a Draft Integrated Feasibility Report (IFR) and Draft Environmental Impact Statement (EIS) for the Coastal Texas Protection and Restoration Study. Our comments are provided pursuant to the National Environmental Policy Act (NEPA), Council on Environmental Quality (CEQ) regulations (40 CFR Parts 1500- 1508) and Section 309 of the Clean Air Act. General Observations Planning for the entire Texas coastline is a huge undertaking and it is therefore difficult to provide a thorough list of significant issues prior to seeing a more specific statement of the mission and goals. The March 31, 2016, Public Notice sets out a broad conceptual intent of providing "a comprehensive strategy for reducing coastal storm flood risk through structural and nonstructural measures that take advantage of natural features such as barrier islands and storm surge storage in wetlands."	**1**				
169			refine goal statement	A more detailed review would be facilitated if the goal statement was refined and expanded to provide prograننatic results-based goals. Examples could include: providing flood protection at a certain level above the base flood elevation; providing flood protection at a certain level above the standard project flood; or providing an incremental amount of risk reduction for a specified period of time based on a specified rate of future land loss. Similarly, goals for the coastal restoration aspect of the project should be specified and should incorporate results-based elements. This will help provide a solid framework for the planning effort and facilitate public participation.	**1**				
170			clarify Corps only or state-wide master plan	It would also be helpful to clarify whether this effort amounts to a State-wide coastal master plan or a plan limited only to Corps-funded projects. Although the Final Reconnaissance Report implies that projects funded by other participants could be included, the IFR should clarify that point. Another useful aspect of the goal statement would be an explanation of how this plan might mesh with other	**1**	**1**			

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				significant coastal natural resource restoration and flood risk reduction plans being developed and implemented by the State, metropolitan areas, other agencies at all levels of government, corporate entities, and other organizations. Again, the Final Reconnaissance Report includes a listing of prior studies and existing water projects but the IFR should provide an integrated evaluation of approved projects or projects underway. Providing as much information as possible from the outset with regard to project goals and the limits of Corps authorities and/or funding will help the public appropriately scale their expectations about the priorities and possibilities for addressing flood and storm surge protection, flood risk reduction, and coastal restoration through this effort. Because there will be a natural desire by those potentially affected by this feasibility analysis to get a community or neighborhood view of the potential benefits and/or adverse impacts from the plan out the outset, it will be essential to define expected results and to explain the overall process. That process would stretch from feasibility to implementation to operations and maintenance. Likewise, a general picture of the funding process and projected time to completion, once funding is secured, should be provided at this early planning stage.					
171			EPA does not endorse any specific set of features	Once a framework is established that defines the study parameters and delimits the Corps' mission in this overall effort, a more specific evaluation could be provided by EPA. In the meantime, please consider the following planning issues, grouped into three categories according to the Corps' request. Note, however, that EPA does not, by way of these comments, endorse any specific set of structural features or restoration design options at this initial stage of the feasibility planning. The following information is provided for purposes of scoping under the National Environmental Policy Act and not as endorsements or rejections of specific project alternatives or features.	**1**	**1**	**1**	**1**	**1**
172			Policy and funding considerations	1) Natural Conditions and Human Environmental Problems and Needs: Policy and Funding Considerations EPA fully recognizes the need to plan for improved storm damage and flood risk reduction for the coastal communities of Texas. We remain committed to working with the Corps of Engineers, our State and federal partners, and other stakeholders to conduct an effective and efficient environmental review during this program planning effort. We are also committed to ensuring that any resulting storm and flood damage risk reduction projects are consistent with ongoing efforts and plans to protect and restore	**1**	**1**	**1**	**1**	**1**

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				coastal environmental resources. These coastal resources provide not only vital environmental benefits to the people of the State and our nation but also supply ecosystem services that contribute to our quality life. These natural coastal resources also oftentimes serve to ameliorate the impacts of floods and storms. The comprehensive plan envisioned by the IFR should truly integrate the two goals of flood protection and environmental restoration. However, primacy should be afforded to options that would protect or restore natural coastal habitats and to coastal features that currently contribute to both the environmental and the flood minimization goals.					
173			project purpose, limitations, goals, future funding.	We recommend that the draft IFR and draft EIS clearly explain the project purposes and identify the limits of Corps involvement in the life of overall proposed project. An explanation should be provided about any limitations of Corps authority for addressing the expansive array of goals listed in the Public Notice, the amount of Corps or other federal funding available to implement the selected alternatives, and the need for additional funding sources and/or project implementers. Similarly, the initial statement of goals should contain a description of the long term operations and maintenance requirements that might be expected of local sponsors or other non-Corps entities. The process for securing future funding for the proposed set of projects or actions should be clearly identified at the outset of the study in order to frame public expectations.	**1**	**1**			
174			geographic planning areas	Planning Considerations The Final Reconnaissance Report was organized around four geographic planning areas. We agree that the IFR study area should employ a similar series of inter-related ecosystem-based geographic units for more detailed analyses of human and ecological needs and opportunities for intervention. We would be willing to entertain modifications to these boundaries but we were not able to devote detailed attention to the boundaries at this time. Conceptually, this type of process will provide an opportunity for stakeholders to have input on options and challenges within specific geographic locations and will help shape effective public participation.	**1**				
175			existing conditions	Examples of significant existing coastal environmental conditions that deserve special attention, either all along the coast or at certain identifiable hot spots, include: altered freshwater inflows to estuaries; altered estuarine hydrodynamics (deep draft ship channels, GIWW, artificial passes, river diversions, dikes and causeways, cooling water intakes/outfalls); barrier island/barrier headland degradation (sand-starved beaches, dunes, and supratidal habitats); subsidence; development; coastal wetland loss; wetland impoundment; changes			**1**		

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				to seagrass distribution and productivity, loss of wind tidal flats, and coastal water and sediment quality (low dissolved oxygen, bacteria/pathogen indicators and PCBs that are bioaccumulated into fish tissues), and contaminated sediments.					
176			comparison of costs	The discussion of existing problems should provide a clear comparison of the costs of damages from previous storms. Note that Table 4-3 in the Final Reconnaissance Report does not include information that would normalize those costs over time. Without this type of information, it is difficult to compare damage calculations from one storm to another.		1		1	
177			gaps in coastal monitoring	The IFR should identify significant gaps in existing coastal monitoring and discuss whether this study could contribute to filling those data needs.	1	1	1		
178			Policy, goals, mitigation	2) Significant Resources: Policy Considerations The IFR should acknowledge the need for and establish a firm goal of avoiding, minimizing, and fully mitigating all adverse impacts to estuarine resources from the flood protection aspects of the plan. For those unavoidable adverse impacts, compensatory mitigation should be planned in a manner that would be complementary to the coastal restoration actions proposed as part of the planning effort. The mitigation policy should also consider establishing a goal of implementing mitigation concurrently with project construction features or as close in time as possible. Compensatory mitigation should be based on the EPA/Corps 2008 Mitigation Rule. Accordingly, preservation as a mitigation technique should generally be considered a low priority, unless specifically justified.	1				1
179			avoid confsing mitigation and restortion goals	Because the IFR goal is a dual one of both flood risk reduction and coastal restoration, the planning should avoid confusing or combining mitigation for unavoidable impacts from construction of flood control features with those features being designed to accomplish the coastal restoration goal. In other words, mitigation for construction impacts should not be considered a substitute for achieving the coastal restoration goals.		1		1	1
180			borrow material policy	The draft IFR should include a policy regarding any borrow material that might be required for construction of individual flood risk reduction projects across the coast. In order to complement the coastal restoration aspect of the planning effort, consideration should be given to establishing a policy that no borrow material, whether from onsite or offsite, will be derived from wetland areas or flood tide deltas. As an example, note that the avoidance of	1				1

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				jurisdictional wetlands for borrow material was one of the significant features of a similar large-scale planning project, the Greater New Orleans Hurricane and Storm Damage Risk Reduction System Project managed by the New Orleans District of the Corps of Engineers. We encourage the Corps to repeat this important precedent as part of this coastal planning effort. Ifsignificant borrow material will be required, consideration should be given to developing a protocol for the selection of borrow sites that would avoid and minimize impacts to valuable coastal natural resources and that would ensure consistency with coastal restoration strategies. Ifthe use of open water borrow sites are potential alternatives, analysis of any associated water quality impacts should be conducted.					
181			resources to be considered	Planning Considerations The Public Notice listed the following resources to be considered for protection, conservation, and restoration: wetlands, barrier islands, and shorelines. Although this general list is a good starting point, we recommend that public review documents explicitly incorporate, at a minimum: wetlands, including cypress-tupelo swamp forest, bottomland hardwood forest, salt marsh, brackish marsh, intermediate marsh, fresh marsh, seagrass beds, and mangroves; barrier islands, including beach, dunes, supratidal habitats, freshwater marshes, and saltmarshes/mangrove scrub-shrub; seagrass beds; wind tidal flats; oyster reefs; prairie potholes, estuarine and coastal fish and shellfish; and coastal wildlife (specifically including birds, terrapins, and sea turtles, as well as any species of special interest and threatened and endangered species); and protected habitats managed or owned by any entities. To the degree possible, the descriptions of the various resources should be displayed via maps and other graphics in order for the reader to gain an understanding of critical natural resource locations.			**1**		
182			human and natural resource trends	Likewise, a thorough presentation about the current understanding of the human and natural resource conditions and trends that would be impacted by the proposed alternatives would be useful at the earliest possible time in the planning process. The status and ecological significance of freshwater inflows, red and brown tide events, hypoxic conditions, land loss rates and contributing factors, hydrologic alterations, sediment availability and movements, habitat loss and modification, changes in living resources, and land use and socioeconomic trends should be presented and analyzed. Any projected changes to resources as a result of weather and climate projections for the project period should be factored into the planning.			**1**	**1**	

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183			indirect impacts	.,. With respect to indirect impacts to coastal natural resources, the analysis should include potential adverse effects of the various alternatives due to changes in: wetland hydrology, salinity regimes, and pollutant loading; estuarine connectivity, including fish and shellfish ingress and egress; sediment processes; and transitions in habitat types as a result of any individual flood reduction feature or as a result of the combined impacts from all proposed features.			1	1	
184			direct impacts durations	.,.The evaluation of the direct environmental consequences of proposed actions should take into consideration not only the magnitude (degree and extent) of the expected changes but the expected duration and speed of the changes. A comprehensive indirect analysis should include effects caused by the proposed action that might occur later in time or are somewhat removed by distance.				1	
185			constructiion impacts	Impacts to coastal resources as a result of construction activities should be evaluated along with other environmental impacts. Construction impacts should include the transportation of construction materials to the building site for any alternative that would entail large-scale construction and that would require significant relocation of materials. Potential topics for analysis include road or barge traffic, roadway wear and tear, noise and other community impacts, energy use, and air quality impacts.		1		1	
186			cumulative impacts	The study area is an ecologically important area that is experiencing natural resource declines. Due to the expansive nature of this study and the environmental sensitivity of the coast, a comprehensive and wide-ranging cumulative impacts analysis should be completed. A rigorous cumulative impact evaluation should start by establishing spatial and temporal boundaries for significant resources and including a description of past, present, and reasonably foreseeable future projects or alternatives. The analysis should include the overall impacts to the environment that can be expected from a number of individual projects or alternative features being implemented across the coast.			1	1	
187			construction staging and cumulative impacts	The IFR will likely show that concurrent implementation of all proposed features across the coast is not a practical alternative. If construction is to be staged over a significant period of time, plans should be made to develop a series of cumulative impact evaluations which should each incorporate an adaptive evaluation of the preceding construction phases.		1	1	1	
188			project induced impacts	Because the IFR has dual goals of flood risk reduction and coastal restoration, it will be essential to plan carefully the flood risk reduction features so as to minimize any associated adverse impacts		1	1	1	

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				to coastal natural resources. In particular, flood risk reduction features should be located and designed so as to avoid, to the degree possible, enclosing wetlands or other sensitive habitats within flood control works. For instance, greater wetland loss might be expected in areas enclosed by levees, due to a combination of factors that might make them more susceptible to storm damage or make them otherwise less valuable as wetland ecosystems.					
189			framework development and policy condsiderations	3) Reasonable Alternatives: Framework Development and Policy Considerations We recommend that innovative approaches to providing enhanced storm and flood protection be given full consideration during the planning phase, including combinations of structural and non-structural components. Similarly, multiple lines of defense should be considered that might, in combination, reduce vulnerabilities from floods, storms (wind and rain), and storm surge. Alternative sequencing options for the implementation of features should also be analyzed, along with the corresponding levels of project effectiveness and environmental impacts.	1	1	1	1	1
190			relatie weight of flood reduction and environmental restoration goals	We recommend that the IFR clearly explain the relative weight that will be afforded to the flood and storm risk reduction goals as compared to the coastal restoration goals. The restoration goals should not be considered as secondary or simply as mitigation for the flood risk reduction goals. Neither should restoration benefits be calculated as offsetting the costs of storm risk reduction projects. Restoration features should not be put forth to justify storm risk reduction.Both major project goals should stand the test of independent review.	1	1		1	
191			integrated environmental and engineering evaluations	In order to maintain a balanced level of effort with regard to both the flood reduction and environmental restoration goals for this project, it would be helpful to integrate the initial environmental and engineering evaluations by considering including environmental staff, in addition to engineering staff, in the formal Corps Alternative Engineering Evaluation Process.	1	1	1	1	1
192			alternative analysis	An alternatives analysis should identify ongoing efforts to protect and restore coastal natural resources along the Texas coast. This should include not only projects being considered under Corps authorities but any others that might contribute cumulatively to meeting the goals for this project and/or that might impose constraints on designing reasonable alternatives for this project.		1		1	

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193			uncertainties	In order to address any uncertainties regarding future coastal dynamics (including relative sea level rise), each of the major alternatives should consider a range of potential changes in water and land elevations projected for each portion of the coast over time and in response to other reasonably foreseeable changes.	1	1		1	
194			planning process	Although the feasibility study will apply within specified geographic limits, it is possible that certain parts of the study area will be projected to experience increased or decreased levels of risk reduction due to engineering, hydrologic, economic, or other reasons. This possibility should be i" discussed early in the planning process	1	1			
195			cost	The presentation of alternatives should clearly present the financial and opportunity costs of acquiring necessary easements, rights-of-way, or property titles.		1			
196			existing navigation channels and storm surge	The role of existing navigation channels in compounding the effects of storm surge should be evaluated, along with the implications of any reasonably foreseeable channel expansions.		1	1	1	
197			adaptive management and monitorign	The development of alternatives should include some discussion of the types of baseline coastal resource monitoring that would be required and the needs for long-term monitoring for adaptive management purposes.		1		1	1
198			nonstructural alternatives	Non-Structural Alternatives The IFR should identify the range of potential types of both structural and non-structural alternatives that will be considered for achieving flood risk reduction. The discussion of non structural alternatives should identify whether buyouts and relocations will be considered at a conceptual level for historically flooded properties or following future storm events. Increasing wetland restoration as a means of flood risk reduction should also be considered as a viable alternative. Non-structural options should include policy changes such as limiting federal infrastructure development on barrier islands/barrier headlands, acquiring undeveloped barrier island/barrier headland properties from willing sellers, requiring onsite restoration or preservation as mitigation for any permitted development on barrier islands/barrier headlands, increasing beneficial use of dredged material for marsh creation, and employing living shorelines in areas where hardened structures are not necessary. The selection and presentation of IFR alternatives planned for federal funding should not inadvertently discourage individual		1			

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				efforts to elevate properties or install other non-structural adaptive measures.					
199			flood control alternatives and wetlands	Structural Alternatives Structural measures designed for exterior flood control, such as levees, should be evaluated for impacts to interior drainage, subsidence, sediment dynamics, water quality, and salinity regime changes. Goals for the placement of any structural flood control measures should be defined early in the feasibility phase. Goals for upgrading existing structures should include and evaluate alternatives for flood-side vs. protected-side shifts. To the extent possible, structural measures for flood control should be situated in locations other than wetlands or on sensitive barrier island habitats		1	1	1	
200			sector gates and engineered flood control deveices	If structural measures such as large sector gates or smaller engineered flood control devices are proposed, a full analysis of the altered hydrological and other ecological ramifications should be presented as early as possible, along with the potential social impacts. Operational parameters and adaptive protocols should be considered as priority design elements. There may be a range of environmentally preferable operational schemes for such features that might not compromise the primary purpose of flood risk reduction		1			
201			water control structures remain open	Alternatives for gated or other water control structures should be designed to remain open except during specified conditions of certain storms or high tides. Gates or water control structures should be designed to allow sufficient ingress and egress of aquatic organisms and exchanges of sediment, organic matter, and nutrients. These structures should be sited and designed so as not to cause wetland degradation due to prolonged impoundment or other hydrologic changes.		1	1	1	
202			levees direct and indirect impacts	If structural measures such as levees are proposed, a full analysis of the altered hydrological and other ecological ramifications should be presented as early as possible, along with the potential social impacts. For instance, the construction of levee systems can result in both direct and indirect impacts to wetlands and aquatic resources. While direct impacts are somewhat easier to quantify, indirect impacts can be technically challenging to assess and yet of significant consequence to aquatic resources and other aspects of the environment. The assessment of potential indirect impacts to wetlands and aquatic resources is often the most critical component		1		1	

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				of the environmental review oflevee projects and such alternatives should incorporate rigorous evaluations.					
203			pump stations hydrologic & sediment exchange	If structural measures such as pumping stations are proposed, a full analysis of the altered hydrological and sediment exchange and other ecological ramifications should be presented as early as possible, along with the potential social impacts. Alternative operations of pumping stations should also be evaluated with regard to differing types and degree of environmental impacts.		1		1	
204			dredgiing placement	If significant dredging is a reasonably foreseeable component of the major alternatives, beneficial use of the dredged material for purposes of coastal restoration should be considered as a priority. Consequently, appropriate plans should be made for contaminant testing and for evaluating the dredged material in a timely manner. If significant quantities of dredged material are expected, consideration should be given to establishing an interagency team to review and evaluate alternative placement options.		1	1	1	1
205			levels of risk reduction	The presentation of flood risk reduction alternatives should include comparative evaluations of the relative differences among options with regard to the level of risk reduction expected and the effect upon National Flood Insurance Program certifications in each area. This might help the public to evaluate the costs and benefits of different alternative arrays.		1			
206			unintended environmental consequences	Any proposed infrastructure improvement, such as roadway elevations or widened evacuation routes, should be evaluated for the potential to cause unintended consequences (impounding water, reducing water quality in adjacent wetlands, causing a rebound of storm-induced waves, etc.). Similarly, structural features should evaluated with regard to their potential effects on accidental spills or storm and flood-induced releases of hazardous material.		1	1	1	
207			alternatives, hydrology, wetlands	Restoration Construction Activities In general, alternatives should be considered that would: restore hydrology to coastal wetlands (accounting for future projections regarding droughts and flooding); preserve coastal wetlands regardless of their status under the Clean Water Act; and restore coastal depressional wetlands.		1		1	
208			dedicated dredging & barrier islands	Consideration should be afforded to using dedicated dredging of sediments of the appropriate grain size from the nearshore Gulf of Mexico, but beyond the depth of closure, for the purpose of barrier island/barrier headland restoration.		1		1	
209			tidal flat restoration	The potential for tidal flat restoration on the middle and lower Texas coast should be considered cautiously. The tidal flats of these sections of the Texas coast are fundamentally different than any		1		1	

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				other tidal flats in the U.S. If successful restoration is possible, new techniques would likely need to be developed.					
210			scrape down wetlands	Note that "scrape downs" of higher elevation areas in order to create suitable wetland elevations should only be considered after detailed evaluation, and should probably be excluded from consideration in the case of barrier islands.		1		1	
211			backfilling coastal oil and gas canals and degrading associated spoil banks s	The potential for backfilling coastal oil and gas canals and degrading associated spoil banks should be evaluated for as potential coastal restoration projects.		1		1	
212			reevaluate existing flood risk reduction features	In conjunction with proposed flood risk reduction features, modifications of existing features that have altered coastal hydrology and ecological dynamics should be recevaluated for long-term ecological efficacy. Possibilities for evaluation might include reconnecting Lake Anahuac with the Trinity Delta, altering the Texas City Dike, ending or deferring federally funded maintenance dredging at the mouth of the San Bernard River, letting certain passes develop without additional intervention by federally-funded dredging, restoring topographic sills at passes where they may have occurred historically, and conveying freshwater across the GIWW to areas such as the Salt Bayou brackish marsh habitat. We look forward to continuing to coordinate and collaborate with the Corps on this important endeavor. Ifyou have any questions about the above comments, please contact Barbara Keeler (214-665-6698) or Kenneth Teague (214-665-6687) regarding matters relating to our Coastal Program and our Section 404 Wetland Program respectively.		1	1	1	
213			cooperating agency	Other Scoping Issues To Be Considered in the EIS Under our role as a cooperating agency and Section 309 Review, EPA has identified several other issues for your attention and consideration in the preparation of the EIS and has enclosed detailed scoping comments for your consideration. We believe significant participation in this phase of the planning process plays an extremely important partnership role for both our coastal program and in our role as a cooperating agency and will assist your agency in the EIS development process. We appreciate the opportunity to review this NOI and are available to discuss all of our comments. Please send one hard copy of the Draft EIS and four CD ROM copies to this office when completed and submitted for public comment. Ifyou have any questions, please	1	1	1	1	1

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				contact me at (214) 665-7451 or by e-mail at jansky.michael@epa.gov.					
214			Purpose and Need	Statement of Purpose and Need We recommend the EIS clearly identify the underlying purpose and need to which the USACE is responding in proposing the alternatives (40 CFR 1502.13). The purpose of the proposed action is typically the specific objectives of the activity, while the need for the proposed action may be to eliminate a broader underlying problem or take advantage of an opportunity. Recommendation: The purpose and need should be a clear, objective statement of the rationale for the proposed project. We recommend the EIS discuss the proposed project in the context of the natural gas supply and the need for an additional export capabilities.					
215			alternatives analysis	Alternatives Analysis The National Environmental Policy Act (NEPA) requires evaluation ofreasonable alternatives, including those that may not be within the jurisdiction of the lead agency (40 CFR Section 150.2.14(c)). A robust range of alternatives will include options for avoiding significant environmental impacts. We recommend the EIS provide a clear discussion of the reasons for the elimination of alternatives which are not evaluated in detail. The environmental impacts of the proposal and alternatives should be presented in comparative form, thus sharply defining the issues and providing a clear basis for choice among options by the decision maker, and the public (40 CFR 1502.14). The potential environmental impacts of each alternative should be quantified to the greatest extent possible (e.g., acres of bay bottom impacted, tons per year of emissions produced). Recommendations: In the discussion of Alternatives, we recommend the EIS describe how each alternative was developed, how it addresses each project objective, and how it will be implemented. We also recommend the EIS clearly describe the rationale used to determine whether Impacts of an alternative are significant or not. Finally, we recommend the EIS describe the methodology and criteria used for determining project siting.	**1**	**1**			
216			water quality and supply and project discharges	Water Supply and Water Quality Public drinking water supplies and/or their source areas often exist in many watersheds. Source water is water from streams, rivers, lakes, springs, and aquifers used as a supply of drinking water. Source water areas are delineated and mapped by the state for each federally regulated		**1**	**1**	**1**	

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				public water system. The 1996 amendments to the Safe Drinking Water Act require federal agencies to protect sources of drinking water for communities. We recommend the EIS address the potential effects of project discharges, if any, on surface water quality. Specific discharges should be identified and potential effects of discharges on designated beneficial uses of affected waters should be analyzed. Recommendations: EPA recommends the EIS address the potential effects of project discharges, if any, on surface water quality. Specific discharges should be identified and potential effects of discharges on designated beneficial uses of affected waters should be analyzed. We recommend the EIS describe water reliability for the proposed project and clarify how existing and/or proposed sources may be affected by climate change. At a minimum, the EPA recommends a qualitative discussion of impacts to water supply and the adaptability of the project to these changes.					
217			groundwater and mitigation	Groundwater EPA recommends the EIS address potential adverse impacts to groundwater. For each alternative under consideration, we request that the EIS satisfy the recommendations below to ensure groundwater resources are protected and any unavoidable impacts are fully assessed in the EIS. . Recommendations: EPA recommends the EIS describe current groundwater conditions in the project area and fully assess any impacts to groundwater quality and quantity associated with the proposed project construction and operational activities. We also recommend the EIS identify mitigation measures to prevent or reduce adverse impacts to groundwater quality and discuss their effectiveness. EPA asks that the lead agency work closely with state and local agencies which regulate the protection of groundwater resources (i.e., state health departments and water pollution control agencies.)		**1**		**1**	
218			stormwater discharge and mitigation	Stormwater Considerations EPA recommends the EIS describe the original (natural) drainage patterns in the project locale, as well as the drainage patterns of the area during project operations. Also, we recommend the EIS identify whether any components of the proposed project are within a 50 or 100-year floodplain. We also recommend noting that, under the Federal Clean Water Act, any construction project disturbing a land area of one or more acres requires a construction stormwater		**1**		**1**	

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				discharge permit. Recommendations: EPA recommends the EIS document the project's consistency with applicable stormwater permitting requirements. Requirements of a stormwater pollution prevention plan would be reflected as appropriate in the EIS. We also recommend the EIS discuss specific mitigation measures that may be necessary or beneficial in reducing adverse impacts to water quality and aquatic resources.					
219			Clean Water Act Section 303(d)	Clean Water Act (CWA) Section 303(d) The CWA requires States to develop a list of impaired waters that do not meet water quality standards, establish priority rankings, and develop action plans, called Total Maximum Daily Loads (TMDL), to improve water quality. We recommend the EIS provide information on CWA Section 303(d) impaired waters in the project area, if any, and efforts to develop and revise TMDLs. EPA further recommends the EIS describe existing restoration and enhancement efforts for those waters, and any mitigation measures that will be implemented to avoid further degradation of impaired waters. Recommendation: EPA recommends the EIS provide information on CWA Section 303(d) impaired waters in the project area, if any, and efforts to.develop and revise TMDLs. We recommend the EIS describe existing restoration and enhancement efforts for those waters, how the proposed project will coordinate with on-going protection efforts, and any mitigation measures that will be implemented to avoid further degradation of impaired waters.		**1**	**1**	**1**	
220			coordinationi across resource agencies,	Biological Resources, Habitat and Wildlife EPA asks that the EIS identify all petitioned and listed threatened and endangered species and critical habitat that might occur within the project area, including any areas. We further recommend the EIS identify which species or critical habitat might be directly, indirectly, or cumulatively affected by each alternative and describe possible mitigation for each of the species. EPA asks that FERC consult with the U.S. Fish and Wildlife Service (USFWS) and National Marine Fisheries Service (NMFS) under Section 7 of the Endangered Species Act. We also recommend that the USACE coordinate across field offices and with USFWS, NMFS, and the Texas Department of Parks and Wildlife (TDPW) to ensure that current and consistent surveying, monitoring, and reporting protocols are applied in protection and mitigation efforts. Recommendations:					**1**

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				EPA recommends that USACE coordinate across field offices and with the USFWS, NMFS and TDPW protocols are applied in protection and mitigation efforts.					
221			Impact analysis and mitigation	Analysis of impacts and mitigation on covered species would include: • Baseline conditions of habitats and populations of the covered species. • A clear description of how avoidance, mitigation and conservation measures will protect and encourage the recovery of the covered species and their habitats in the project area. • Monitoring, reporting and adaptive management efforts to ensure species and habitat conservation effectiveness. • A discussion of how the projects potential impacts such as air emissions and/or wastewater discharges may impact species. If the applicant is to acquire compensation lands, the location(s) and management plans for these lands should be discussed in the EIS.		1	1	1	1
222			mitigation	EPA recommends incorporating information on the compensatory mitigation proposals (including quantification of acreages, estimates of species protected, costs to acquire compensatory lands, etc.) for unavoidable impacts to WOUS and biological resources in the EIS. We recommend identifying compensatory mitigation lands or quantify available lands for compensatory habitat mitigation for this project, as well as reasonably foreseeable projects in the area. Specify provisions that will ensure habitat selected for compensatory mitigation will be protected in perpetuity in the EIS. EPA recommends incorporating mitigation, monitoring, and reporting measures that result from consultation with the USFWS or NMFS that incorporate recently released guidance to avoid and minimize adverse effects to sensitive biological resources in the EIS.		1	1	1	1
223			habitat fragmentation	We further request that the EIS describe the potential for habitat fragmentation and obstructions for wildlife movement from the construction of this project and other projects in the area			1	1	
224			mitigation, monitoring, translocation manaement	The EIS should discuss the need for monitoring, mitigation, and if applicable, translocation management plans for the sensitive biological resources, approved by the USFWS, NMFS and the biological resource management agencies.	1	1	1	1	
225			project induced impacts; habitat conservation alternatives	EPA is also concerned about the potential impact of construction, installation, and maintenance activities (deep trenching, grading, filling, and fencing) on habitat. We recommend the EIS describe the extent of these activities and the associated impacts on habitat and		1		1	

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				threatened and endangered species, including all interrelated and interdependent facilities. We encourage habitat conservation alternatives that avoid and protect high value habitat and create or preserve linkages between habitat areas to better conserve the covered species.					
226			project induced impacts	We recommend the EIS describe the extent of potential impacts from construction, installation, and maintenance activities, including all interrelated and interdependent facilities.				1	
227			ROW vegetation management	We recommend the EIS describe the ROW vegetation management techniques to be used And their potential associated environmental impacts, especially if mechanical methods or herbicides are to be used.		1		1	
228			marine and widlife habitat areas	We recommend the EIS indicate the location of important marine and wildlife habitat areas and that the EIS describe what measures will be taken to protect important wildlife habitat areas and to preserve linkages between them.		1	1	1	
229			fencing	We recommend the EIS provide detailed information on any proposed fencing design and its placement, and its potential effects on drainage systems on the project site. Fencing proposed for this project should meet appropriate hydrologic, wildlife protection and movement, and security performance standards.		1		1	
230			air quality and project emissions	Air Quality EPA recommends the EIS provide a detailed discussion of ambient air conditions (baseline or existing conditions), National Ambient Air Quality Standards (NAAQS) and non NAAQS pollutants, criteria pollutant nonattainment areas, and potential air quality impacts of the proposed project (including cumulative and indirect impacts). Such an evaluation is necessary to understand the potential impacts from temporary, long-term, or cumulative degradation of air quality. We further recommends the EIS describe and estimate air emissions from potential construction and maintenance activities, as well as proposed mitigation measures to minimize those emissions. EPA recommends an evaluation of the following measures to reduce emissions of criteria air pollutants and hazardous air pollutants (air toxics).		1	1	1	
231			air quality emissions	• Existing Conditions -We recommend the EIS provide a detailed discussion of ambient air conditions, National Ambient Air Quality Standards, and criteria pollutant nonattainment areas in the vicinity of the project. • QuantifY Emissions -We recommend the EIS estimate emissions of criteria and hazardous air pollutants (air toxics) from the proposed project and discuss the timeframe for release of these		1	1	1	

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				emissions over the lifespan of the project. We recommend the EIS describe and estimate emissions from potential construction activities, as well as proposed mitigation measures to minimize these emissions. • Specify Emission Sources -We recommend the EIS specify all emission sources by pollutant from mobile sources (on and off-road), stationary sources (including portable and temporary emission units), fugitive emission sources, area sources, and ground disturbance. This source specific information should be used to identify appropriate mitigation measures and areas in need of the greatest attention.					
232			construction emissions Mitigation Plan	• Construction Emissions Mitigation Plan - We recommend the EIS include a draft Construction Emissions Mitigation Plan and ultimately adopt this plan in the Record of Decision. In addition to all applicable local, state, or federal requirements, we recommend the following control measures (Fugitive Dust, Mobile and Stationary Source and Administrative) be included in the Construction Emissions Mitigation Plan in order to reduce impacts associated with emissions of particulate matter and other toxics from construction-related activities. (See Attachment 1)		**1**	**1**	**1**	
233			Hazardous, toxic and radioactive waste and solid waste	Hazardous Materials, Hazardous Waste and Solid Waste EPA recommends the EIS address potential direct, indirect and cumulative impacts of hazardous waste from construction, maintenance, and operation of the proposed facilities. The document should identify projected solid and hazardous waste types, volumes, and expected storage, disposal, and management plans. · Recommendations: We recommend the EIS address the applicability of state and federal hazardous waste requirements. Appropriate mitigation should be evaluated, including measures to minimize the generation of hazardous waste (i.e., hazardous waste minimization). Alternate industrial processes using less toxic materials should be evaluated as mitigation since such processes could reduce the volume or toxicity of hazardous materials requiring management and disposal as hazardous waste.		**1**		**1**	**1**
234			Climate Change	Effects of Climate Change on Project Impacts We recommend describing potential changes to the Affected Environment that may result from climate change. Including future climate scenarios in the EIS would help decision makers and the public consider whether the environmental impacts of the alternatives would be exacerbated by climate change. Ifimpacts may be exacerbated by climate change, additional mitigation measures may be warranted.		**1**	**1**	**1**	**1**

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235			climate change adaptation measures	Climate Change Adaptation We recommend considering climate adaptation measures based on how future climate scenarios may impact the project. The National Climate Assessment (NCA), released by the U.S. Global Change Resource Program 1, contains scenarios for regions and sectors, including energy and transportation. UsingNCA or other peer reviewed climate scenarios to inform alternatives analysis and possible changes to the proposal can improve resilience and preparedness for climate change.		1	1	1	1
236			Coordination with Tribal Governments	Coordination with Tribal Governments Executive Order 13175, Consultation and Coordination with Indian Tribal Governments (November 6, 2000), was issued in order to establish regular and meaningful consultation and collaboration with tribal officials in the development of federal policies that have tribal implications, and to strengthen the United States government-to-government relationships with Indian tribes. Ifapplicable, we recommend the EIS describe the process and outcome of government-to-government consultation between the USACE and with any and each of the tribal governments within the project area, issues that were raised (if any), and how those issues were addressed in the selection of the proposed alternative. Recommendation: We recommend the EIS describe the process and outcome of government-to-government consultation between the USACE and each of the tribal governments within the project area, issues that were raised (if any), and how those issues were addressed in the selection of the proposed alternative.					1
237			National Hisotic Preservation Act	National Historic Preservation Act and Executive Order 13007(NRHA) Consultation for tribal cultural resources is required under Section 106 of the National Historic Preservation Act. Historic properties under the NHPA are properties that are included in the National Register of Historic Places or that meet the criteria for the National Register. Section I 06 of the NHPA requires a federal agency, upon determining that activities under its control could affect historic properties, consult with the appropriate State Historic Preservation Officer (SHPO)/Tribal Historic Preservation Officer (THPO), Indian tribes, or any other interested party. Under NEPA, any impacts to tribal, cultural, or other treaty resources must be discussed and mitigated. Section 106 of the NHPA requires that Federal agencies consider the effects of their actions on cultural resources, following regulation in 36 CFR 800.		1	1	1	1

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				Recommendation: We recommend the EIS address the existence of cultural and historic resources, including Indian sacred sites, in the project areas, and address compliance with Section 106 of the NHPA. It should also address Executive Order 13007, distinguish it from Section 106 of the NHPA, and discuss how the applicant will avoid adversely affecting the physical integrity, accessibility, or use of sacred sites, if they exist. We recommend the EIS provide a summary of all coordination with Tribes, the SHPO/THPO, or any other party; and identify all NRHP listed or eligible sites, and the development of a Cultural Resource Management Plan.					
238			Permits and associated activities	Permits and Other Associated Activities The EIS should include a discussion of relevant permits and other activities associated with the construction, maintenance, and operation of proposed projects.			1	1	1
239			Environmental Justice	Environmental Justice and Impacted Communities Executive Order 12898, Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations (February 11, 1994) and the Interagency Memorandum of Understanding on Environmental Justice (August 4, 2011) direct federal agencies to identify and address disproportionately high and adverse human health or environmental effects on minority and low-income populations, allowing those populations a meaningful opportunity to participate in the decision-making process. Guidance2 by CEQ clarifies the terms low-income and minority population (which includes Native Americans) and describes the factors to consider when evaluating disproportionately high and adverse human health effects. We recommend the EIS include an evaluation of environmental justice populations within the geographic scope of the projects. Assessment of the projects impact on minority and low-income populations should reflect coordination with those affected populations. We recommend the EIS also describe outreach conducted to all other communities that could be affected by the project, since rural communities may be among the most vulnerable to health risks associated with the project.		1	1	1	1
240			Environmental Justice	Recommendations: EPA recommends the EIS include an evaluation of environmental justice populations within the geographic scope of the projects. Ifsuch populations exist, EPA recommends the EIS address the potential for disproportionate adverse impacts to minority and low income populations, and the approaches used to foster public participation by these populations. Assessment of the projects		1	1	1	1

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				impact on minority and low-income populations should reflect coordination with those affected populations. EPA's recently released mapping and screening tool EJSCREEN3 utilizes nationally consistent data to highlight places that may have higher environmental burdens and vulnerable populations. During the NEPA scoping process EJSCREEN can assist in identifying potential EJ populations and areas likely to have environmental impacts. Used in conjunction with NEPAssist, it can be a very powerful tool to strengthen public outreach and involvement efforts and help facilitate the consideration of environmental justice (EJ) in the decision-making process. We recommend the EIS describe outreach conducted to all other communities that could be affected by the project, since rural communities may be among the most vulnerable to health risks associated with the project.					
241			Coordination with Land Use Planing	Coordination with Land Use Planning Activities We recommend the EIS discuss how the proposed action would support or conflict with the objectives of federal, state, tribal or local land use plans, policies and controls in the project areas. The term "land use plans" includes all types of formally adopted documents for land use planning, conservation, zoning and related regulatory requirements. Proposed plans not yet developed should also be addressed if they have been formally proposed by the appropriate government body in a written form (CEQ's Forty Questions, #23b).				1	1
242			control measures for fugitive dust, mobile and stationary sources and adminsitrative	Attachment: Control Measures (Fugitive Dust, Mobile and Stationary Source and Administrative): Fugitive Dust Source Controls; Mobile and Stationarv Source Controls; Administrative Controls		1		1	1
243	Don Haydel, Admistartor, Office of Coastal Management (James Bondy email)	5/2/2016	Louisiana Coastal Zone Management	C20160052, Coastal Zone Consistency. The Department of Natural Resources, Office of Coastal Management (OCM) received the Federal Register Announcement regarding the Intent to Prepare a Draft Environmental Impact Statement for the Coastal Texas Protection and Restoration Feasibility Study on March 31, 2016. Louisiana would like the opportunity to review and provide comment on projects stemming from this study that may have direct and/or cumulative impacts to the Louisiana Master Plan and Coastal Louisiana. For obvious reasons, OCM would have particular interest in any proposed activities in the Sabine River basin. OCM looks forward to working with the Galveston District and the State of Texas to ensure that projects to protect and restore the coast are mutually beneficial. If you have any questions concerning these comments please contact Jeff Harris of the Consistency Section		1		1	1

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244	Deborah Brown	5/4/2016	project induced impacts to coastal reasources	Please make sure natural resources are not impacted by a coastal protection system. That includes national wildlife refuges, sea turtle nesting beaches, oyster reefs, etc. There is the opportunity to plan to include theses things so let's do it right!		1		1	
245	Catalina (Kate) O'Connell	5/4/2016	sea turtles	I hope that the study will include the impact on sea turtles. I know this may sound like a minor part of the overall impact of the work you are doing, but I hope that we are all trying (including you, as the people conducting the study) to make this as environmentally friendly as possible. It had been said many times, but remains true: turtles and other marine animals cannot speak for themselves. The burden of caring for them and protecting them, falls on us, and we must take it seriously. I am sure that you have considered this, and many other matters that are equally important-- I would never deny that. My grandparents were Texans, and I would never in a million years wish any hardship to fall on Texans. But we must protect those who cannot speak for themselves. Their survival makes the entire world a better place for us all.				1	
246	Carter Smith, Executive Director, Texas Parks & Wildlife	5/10/2016	recognize need for hurricane and storm risk management and ecosystem restoration in the Texas coastal area.	TPWD recognizes the critical importance and need to develop a comprehensiv plan to determine the feasibility of completing projects for flood risk management, hurricane and storm risk management and ecosystem restoration in the coastal area of the State ot Texas.					
247			impacts to critical habitats	In further development of the DIFR-EIS. TPWD will have a particular interest in potential impacts to critical habitats including wetlands, bays and estuaries, streams and bayous, resacas, oysters and biogenic reefs, submerged aquatic vegetation, sand and tidal flats, colonial waterbird nesting and foraging areas, shorebird nesting and foraging areas, federal/state threatened and endangered species habitat, as well as important upland features such as coastal prairie, live oak woodlands, rare vegetative communities, mima mounds, riparian corridors, Tamaulipan thornscrub, lomas, and dunes.			1	1	
248			descriptions, maps and plans for all recommeded projects considered to determin risks of impacts	To that end, TPWD recommends the DIFR-EIS include complete and comprehensive descriptions, location map, and plans for all projects considered and for all phases and portions of projects so that the risks to both critical habitat and impact to various species can be determined and analyzed between the alternatives.		1	1	1	
249			full suite of alternatives and associated information	TPWD appreciates the opportunity to contribute comments for this NOI. Prior to issuance of a Final IFR-EIS, TPWD recommends that USACE coordinate closely with TPWD and other resource agencies to develop a full suite of alternatives for the Texas Coast that include the following: objectives, site selection, implementation		1	1	1	

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				details and timing, monitoring, and ecological success standards. If you or any members of your team require any further assistance from TPWD, please contact my colleague, Ms. Rebecca Hensley, in Dickinson. Texas.					
250	Laura Withers	5/4/2016	sea turtles	Yes it's another email from an animal lover but really what is important is that we become a country that is considerate of the environment and animals while we do what we need to do to help and protect our citizens. I'm not asking you to put the sea turtles first, just asking that you and your team use thoughtful consideration in finding solutions, which will perhaps in some cases be a 'compromise' (on both sides) but in the end will WORK for all.		1		1	
251	P. Cashman	5/4/2016	restore natural coastal barriers	Please seriously consider restoring and strengthening NATURAL coastal barriers that protect the Texas coast. Rising sea level, coastal subsidence, and unanticipated consequences of human activities have damaged the marshes, dunes, and barrier bars that used to protect the coast. Re-establishing these would increase habitat viability and diversity as well as protecting the coast. In contrast, engineered projects often INCREASE erosion in specific localities, accelerate subsidence, and invariably reduce habitat extent, robustness and diversity. The Corps of Engineers has recognized that some floodplains along the Mississippi River are best left as wetlands that will distribute and absorb floodwaters. Rebuilding previously-flooded communities in these areas is not feasible. Similarly, some coastal areas are best left in their natural state. Engineered structures cannot change the fundamental vulnerability of these places. So please apply the same wisdom as your floodplain colleagues have, and reinforce natural barriers while discouraging continued building and engineering approaches.		1	1	1	
252	Jim Steitz	5/4/2016	cease fire on construction	America is decades past any rationale for continued heavy-engineering approaches to water management. The Corps of Engineers must declare a cease-fire on our remaining natural ecosystems in on their most precious and most fragile remaining holdouts, the Texas coast. I urge you to resist the institutional and professional-inertial impulse to construct more impoundments, constraints, and barriers to the movement of water and sand in a futile attempt to convert the living, dynamic mantle of the Texas coast into a static, calcified, domesticated platform for human activity.					
253			climate change	As climate change and ocean rise continue, our coastal ecosystems will enjoy a chance at survival only if their physical space for dynamic renewal, revegetation, and restoration is observed and respected by the Corps. A century of tragedy has befallen American		1	1	1	

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				ecosystems that the Corps has sheared and imprisoned in a manifold of artificial plumbing, and the Corps must approach the Texas coast differently, encouraging the restoration of the rich and diverse ecosystems that will buffer the coast better than any seawalls or levees.***					
254			development	The study must address the impact from development and population growth that occurs in the storm surge areas along the Texas coast and may result in habitat destruction.		1	1	1	
255			impacts to significant natural resources	Significant natural resources that could be negatively impacted by a coastal barrier protection system include: bottomland hardwood forested wetlands, Galveston Bay, oyster reefs, seagrass beds, salt, brackish, and freshwater marshes, tidal flats, San Luis Pass, Bolivar Peninsula, West Galveston Island, Follets Island, national wildlife refuges, state parks, fish passes, endangered/threatened bird habitat, and sea turtle nesting beaches.		1	1	1	
256			nonstructural alternatives	Changes to our natural resources should focus on non-structural solutions or physical solutions that are adapted to specific areas and have low environmental impacts. Solutions must protect the coastal environment, and a full study and analysis of the biological effects of construction of any man-made coastal barrier system must be determined, and alternative ways to solve the problem must be considered. Alternatives should include a nature-based solution that improves access to outdoor recreation and conservation of Texas' diverse coastal ecosystems.		1		1	
257	Beth Jones	5/5/2015	impacts to natural resources	In my opinion as a very concerned citizens, the Corps' Coastal Texas Protection and Restoration Study must address not only the impact from development and population growth that (foolishly) occurs in the storm surge areas along the Texas coast that will result in repeated habitat destruction, it should also consider present and future sea level rises, which are known to be occurring due to ongoing and increasing ice melt in the earth's polar regions. A coastal barrier protection system would negatively impact numerous natural resources in Texas, including: * Bottomland * Hardwood forested wetlands, * Galveston Bay, * Oyster reefs, * Seagrass beds, * Salt, brackish, and freshwater marshes, * Tidal flats, * The San Luis Pass, Bolivar Peninsula, West Galveston Island,		1		1	

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				Follets Island, national wildlife refuges and state parks, * Fish passes, * Endangered/threatened bird habitat, as well as * Sea turtle nesting beaches.					
258			nonstructural alternatives	Changes to our natural resources should focus on non-structural solutions or physical solutions that are adapted to specific areas and have low environmental impacts.		1		1	
259			nature-based alternatives	Alternatives should include a nature-based solution that improves access to outdoor recreation and the strict conservation of Texas' diverse coastal ecosystems. (Along with drastically lowering our global warming emissions of course, although that is not in your purview. But if we don't deal with that issue as well, the Corps will face even greater, even insurmountable problems in the future. Thank you for your time and efforts to solve these dilemmas in a responsible, forward-thinking manner.		1		1	
260	John Singleton	5/5/2016	impacts to natural resources	Please have your study identify the natural resources impacted by these projects, particularly the impact from development and population growth along the Texas coast.		1		1	
261			protect coastal environment	Solutions must protect the coastal environment, and a full study and analysis of the biological effects of construction of any man-made coastal barrier system should be assessed, as well as consideration for alternatives given.		1		1	
262			nature-based alternatives	Alternatives should include nature-based solutions that that conserve Texas' diverse coastal ecosystems. Thank you for considering my comments.		1		1	
263	Harold Wayne Tilford	5/5/2016	extend scoping comment period	1) The public must have more time to review/analyze/comment on this scoping proposal. The Corps should provide a two to four week extension of the scoping comment period.	1				1
264			scoping public meetings	2) The Corps should hold at least one, and more appropriately two or more, public meetings in four locations on the Texas Coast including: Orange-Port Arthur-Beaumont, Houston-Galveston, Corpus Christi, and Brownsville areas. The public must be educated about and see the extent of this study.	1				1
265			public outreach	3) The Corps must implement an extensive public outreach/input program not just for Texas coastal areas but for all of Texas. Federal and state public tax dollars will be used to prepare/implement the study's recommendations. Texas, as well as all United States tax-payers, have significant environmental, social, and economic investments and concerns that this study will cover.	1	1			1
266			impacts to natural resources	4) Significant natural resources may be negatively impacted by this proposal. Some of these significant resources include: Sabine Lake,		1		1	

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				Sabine and Neches Rivers, bottomland hardwood forested wetlands, Galveston Bay, oyster reefs, seagrass beds, salt, brackish, and freshwater marshes, tidal flats, San Luis Pass, Bolivar Peninsula, West Galveston Island, Follets Island, national wildlife refuges (like Aransas, Anahuac, McFaddin, Brazoria, San Bernard, Big Boggy, Laguna Atascosa, and Lower Rio Grande Valley), state parks (like Galveston, Sea Rim, and Goose Island), fish passes, endangered/threatened species habitat (like Whooping Cranes and Piping Plovers), sea turtle nesting beaches, Matagorda Bay, Lavaca Bay, South Padre Island, Padre Island, Mustang Island, Matagorda Island, San Jose Island, Corpus Christi Bay, Aransas Bay, Laguna Madre, brush country, South Bay, the Mouth of the Rio Grande, etc. Nearly every coastal habitat on the Texas Coast could be affected by this proposal. These natural, recreational, tourist, and wildlife centered places must not be harmed by any study proposals.					
267			comprehensive restoration	5) The study must be comprehensive and address how to restore the coastlines and habitats that has been altered and continue to be altered. For instance, dams trap sediment in rivers/streams; jetties, rock groins, and other human structures catch sediments from the longshore current; marshes and coastal prairie are eroded by the Intracoastal Waterway; development occurs in the 100-year floodplains/storm surge areas and results in the destruction of beaches, marshes, dunes, coastal prairie, barrier islands, and other coastal habitats that act as storm buffers; rise of sea level due to the release of climate change gases impacts the coastlines; wetlands, which soak-up and delay flood waters, are destroyed; etc. The study must address the root causes and not just the symptoms of population growth, development, habitat loss, erosion, wave, tide, current, storm and hurricane impacts on our coast.	**1**	**1**	**1**	**1**	
268			no silver bullet	6) Reasonable alternatives must not consist of "silver bullets" that create a "false sense of security" and encourage further development in ecologically sensitive or dangerous areas like 100-year floodplains/storm surge areas. No one alternative will resolve our problems. Alternatives must be site specific, not damage natural, recreational, and tourist areas, and must "keep people out of harm's way". We must use the philosophy of "working with Nature and not against it".		**1**			
269			nonstructural alternatives	Alternatives should not focus on massive, structural, engineered projects which harm natural, recreational, and tourist areas. Alternatives should focus on non-structural solutions or structural		**1**			

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				solutions that are adapted to specific areas and have low environmental impacts like: individual levees around industrial plants/units (like storage tanks) to reduce the impacts of oil/chemical spills on the Houston Ship Channel and other ports; do not worsen and ultimately help resolve environmental justice problems for those who live near large public works and industrial facilities; use planned withdrawal (buyouts) in areas where sensitive ecological lands exist and solutions are expensive to build, operate, finance, maintain, repair, and replace, like Bolivar Peninsula and West Galveston Island; acquire buffers that allow marshes and other natural ecosystems to migrate inland as sea level rises; are as low cost as possible, since proposed costs could be in the tens of billions of dollars, and require significant private sector, local, and state financial support.					
270			keep people out of harms way; focus on natural preservatioin	We must have alternatives that protect the coastal environment and "keep people out of harm's way". We must tailor our natural and human solutions in a manner where they fit together well and compliment each other. Gargantuan projects do not guarantee success in the protection and preservation of our treasured coastline. We need community solutions focused on natural preservation for our and our children and long-term safety, pleasure, and enjoyment. The choice is ours.		**1**			
271	Salvador Salinas, State Conservationist (Lori Ziehr, USDA, NRCS, Assistant State Conservationist for Landscape Conservation)	5/5/2-16	critical natural and human needs and problems	critical natural and human environmental problems and needs: flooding, subsidence, erosion, conversion of wetlands and marshes to dry land (development) or open water, water quality and quantity, rising sea levels and global warming, storm surge and salt water intrusion, Plant community health in all ecosystems including weland and dunes, invasive species flora and fauna, development increasing populations on non-porous surfaces, coastal industries oil industry, shipping, coastal recreation, hotel industry, fishing, water sports, manufacturing, navigation, mitigation, evacuation routes, Deepwater Horizon oil spill, cumulative impacts of known restoration projects or developments including future highways,	**1**		**1**		
272			significant resources to address in draft EIS	Significant resources to address in draft EIS: Impoundments, wetland, Estuaries and Marshes, Essential Fish Habitat, Seagrass, Wild and Scenic Rivers, Streams, Tributaries, Ephemeral Streams, Intermittent Streams, Perennial streams, Riparian Areas and Floodplains, Bottomland Hardwoods, Forests to include Urban Forests and Micro Habitats, Animal Populations - Impacts and Benefits, T&E Species -Both Federal and State including Freshwater and Marine Mussel Surveys, Fish Populations - Impacts and Benefits - Aquatic Resources Relocation Plans, Migratory			**1**		

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				Species -Fish, Insect, Birds, and Mammals, Pollinators, Barrier Islands, Dune Ecosystems, Coastal prairie grassland mosaic and coastal prairie savannah ecosystems, Coral Reefs, Agriculture, Prime and Unique Farmland, Cultural Resources and Historic Properties, Environmental Justice, Scenic Beauty					
273			reasonable alternatives	1. Alternatives should start with soft, all native vegetative measures and develop into hard surface measures.		**1**			
274			reasonable alternatives	2. Alternatives should start with natural sustainable measures and develop Incrementally toward measures that require maintenance to function properly.		**1**			
275			reasonable alternatives	3. The incremental development of alternatives should include alternatives that contain a combination of soft and hard measures, as well as alternatives that contain sustainable and non-sustainable (require maintenance) measures.		**1**			
276			reasonable alternatives	4. Projects should not be used to provide recreational beach restoration or nourishment.		**1**			
277			reasonable alternatives	5. Alternatives should use natural hydrology if at all possible, and only use pumps as a last resort.		**1**			
278	Juanita W Perkins Office Manager/Volunteer Coordinator Houston Audubon Society	5/5/2016	protect Texas Coastal Area, sanctuaries, habitat, birds and wildlife	These comments are submitted by Houston Audubon Society (HAS) in response to the Notice in the Federal Register dated 3/31/2016, "Intent to Prepare a Draft Environmental Impact Statement for The Coastal Texas Protection and Restoration Feasibility Study". The "Coastal Texas Protection and Restoration Feasibility Study,is authorized under Section 4091, Water Resources Development Act of 2007, to develop a comprehensive plan to determine the feasibility of carrying out projects for flood risk management, hurricane and storm risk management, and ecosystem restoration in the coastal areas of the State of Texas." According to the Notice, the study will identify data needs and recommend a comprehensive strategy for reducing coastal storm flood risk through structural and nonstructural measures that take advantage of natural features like barrier islands and storm surge storage in wetlands. HAS is very concerned for the protection of the Texas Coastal area and particularly its sanctuaries, habitat and the birds and wildlife that use them. These general statements are supported and more fully explained in the following paragraphs.		**1**	**1**	**1**	
279			potential impacts on bird sanctuaries owned by Huston Audubon Society	1. Impact on Houston Audubon Sanctuaries A major concern is the potential impact on bird sanctuaries owned and operated by HAS. Of particular concern are three areas on the Bolivar Peninsula - High Island, (Boy Scout Woods, Smith Oaks and			**1**	**1**	

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				the Rookery), Bolivar Flats and Horseshoe Marsh. The issues are similar but different for each area.					
280			neotropical migranting birds and stopover habitat	Many species of birds, called neotropical migrants, nest in North America and spend the winter in Latin America. Twice each year these birds migrate the long distances between wintering grounds and spring nesting locations. Each spring millions of birds that wintered in Central and South America are driven north by the urge to establish breeding territories and select mates. During the spring migration period from early March to mid-May weather conditions can exist where strong turbulent north winds and rain trigger a phenomenon called a "fallout". This fallout causes tens of thousands of extremely tired migratory birds to seek shelter and food as soon as they reach the coast. Especially at these times, good quality habitat along the coast is vitally important to the survival of these birds and the HAS sanctuaries provide this for them.			1	1	
281			Impacts to Boy Scout Woods coastal praries and wetlands	Boy Scout Woods consists of 60 acres of woods, coastal prairie and wetlands, and is located one mile from the Gulf of Mexico on High Island.			1	1	
282			Smith Oaks Sanctury oak mottes	Smith Oaks Sanctuary contains oak mottes with live oaks over 100 years old, ponds wetlands and coastal prairie.			1	1	
283			Smith Oaks Sanctury Rookery Island	The U-shaped island in the middle of Smith Oaks known as the Rookery, has become a favored roosting and nesting place for thousands of waterbirds. In the spring and summer, herons, egrets cormorants, and spoonbills build their nests and raise their chicks on the predator-free island			1	1	
284			Bolivar Flats globally important bird area	Bolivar Flats is a unique area located just east of the east jetty on Bolivar, combining salt marsh, mud flats, and beach, each habitat quite different from the other. The sanctuary includes property from the beach and the flats inland to the highway. Bolivar Flats is a Globally Important Bird Area, the highest designation, and is an International site in the Western Hemisphere Shorebird Reserve Network.			1	1	
285			migrating bird sancuaries	These sanctuaries therefore are vital to the birds migrating north from Central and Latin America.			1	1	
286			Horseshoe Marsh land loss and "takings"	Horseshoe marsh lies north of U.S. 87 and extends from Galveston Bay inland at the western tip of the Peninsula. Here the concern is more about loss of land. HAS strenuously objects to any taking of property without a serious evaluation of the extent of the damage to our property.			1	1	
287			Galveston Bay and tidal exchange	2. Impact Upon Galveston Bay and Shorebirds A second major concern arises from any construction of a gate		1	1	1	

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				structure across Bolivar Roads. Even if the openings allow 50% tidal exchange, we still expect substantial impacts to Galveston Bay.					
288			Netherlands Eastern Scheldt environmental barrier changes to tidal prism and circulation	It is our understanding the Eastern Scheidt "environmental" barrier in the Netherlands, which is about 33% open, has had substantial negative impacts upon the estuary behind it. The particular impact of concern is the loss of mud flats and other bird loafing and feeding areas behind the barrier. Reports from the Netherlands indicate that in addition to impact to the abundance and distribution of mud flats and water birds, changes to the estuary included alteration of the tidal prism and circulation within the estuary as well as the salinity of the bay. This is of great importance to HAS. This issue should be fully modeled and evaluated with the potential impacts disclosed to the public prior to making any decision on alternatives.		1	1	1	
289			Endangered and Trheatened species turtles piping plover	3. Impact Upon Endangered and Threatened Species HAS is concerned about the impact to at least two endangered species, and any number of threatened species. The endangered species of concern are the piping plover and the Kemp's ridley sea turtle. Piping plovers forage on the beach as well mud flats adjacent to the bay. Kemp's ridley sea turtles as well as threatened sea turtles use Galveston Bay and move in and out to the Gulf through Bolivar Roads. These endangered and threatened turtles nest on beaches of Galveston Island. The point here is that the issue of impact to these Endangered and Threatened species must be thoroughly evaluated and understood prior to making any decisions.			1	1	1
290			alternative analysis	4. Alternatives Analysis All of the comments above lead to a major concern about an appropriate alternatives analysis. A full array of alternatives must be studied in order to protect coastal habitat as well as cities and communities such as the City of Galveston and the Clear Lake area. Major impacts to the Bay must also be avoided. Just consider the recent flooding events to understand how important this analysis will be, and why it is of great concern.		1	1	1	
291			full analysis of alternatives and impacts	5. In conclusion, HAS submits that this study must include a full analysis of alternatives and impacts, specifically analysis of our particular concerns, impacts to our sanctuaries and migrating birds and marine life. We urge cautious progress, and continued public input and involvement throughout the process.		1	1	1	
292	Mary Carter	5/5/2016	acknowledges Jaunita Perkins, Houston Audubon Society comments	Great Juanita. Thanks to all. Mary		1	1	1	
293	John Baros	5/5/2016	acknowledges Jaunita Perkins, Houston Audubon Society comments	Great Juanita. Thanks to all. Mary		1	1	1	

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294	Carole Allen	5/6/2016	community solutions focused on natural preservation	Gentlemen: Gargantuan projects do not guarantee success in the protection and preservation of our treasured coastline. We need community solutions focused on natural preservation for our children and long-term safety, pleasure, and enjoyment.		1	1	1	
295			wildlife and threatened and endangered species	Please keep wildlife in mind with every step considered along the Texas Coast – especially the endangered Kemp's ridley sea turtles and the other sea turtles of the Gulf of Mexico.			1	1	
296			Ike Dike impacts	The monstrous project known as the Ike Dike would be a disaster for sea turtles and many types of wildlife on the Texas Coast. It will make a lot of architects rich but it will hurt the sea turtles who will not be able to get to the beaches to nest.		1	1	1	
297			sea tutles and animals do not have to fight structural measures	The Texas Coast should remain a place where nature is in charge so that sea turtles and animals do not have to fight seawalls, gates and levees to find nesting beaches, dunes, marshes and wildlife habitat. We are counting on you to consider the wildlife and natural resources before making decisions. We must have alternatives that protect the coastal environment and people as well. We must tailor our natural and human solutions in a manner where they fit together well and compliment each other. Thank you.		1	1	1	
298	Grace Martinez	5/6/2016	attached comment letter addressing scoping questions	Dear Sirs, I am sending this letter to Col.Pannell re the Notice of Intent for a Draft Integrated Feasibility Study of the Texas Coastline. Please respond to me at this email address. I will also put this letter in the mail. Thank you ever so kindly. In your Notice of Intent" to prepare a "Draft Integrated Feasibility Report and Environmental Impact Statement (EIS) for the Coastal Texas Protection and Restoration Study" (Federal Register, March 31, 2016, Vol. 81, No. 62, pp. 18601-18602) you request that the public respond basically to three questions by May 9, 2016 1. Identify the critical/human environmental problems/needs that should be addressed 2. Identify the significant predicted resources (costs) that should be included 3. Identify the alternatives that should be addressed	1	1	1	1	
299			additionl scoping meetings and public outreach	It is premature for the Corps to ask for a public response at this point. I, a resident of the Houston Clear Lake Area and grateful life-long resident of the Texas Gulf Coast, submit the following request for additional scoping information 1. That the Corps implement an extensive public outreach/input program to all of Texas as federal, state, and local tax dollars will be used 2. That the Corps hold at least one public meetings in at least four locations on the Texas Gulf Coast: Orange-Port Arthur-Beaumont,	1				1

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					PN	ALT	AE	EC	CC
				Houston-Galveston, Corpus Christi, and Brownsville areas (last meetings were held approximately two years ago 3. That the Corps include other agencies such as the Texas General Land Office (co-sponsor of the Study) in these public meetings					
300			short-term and long-term solutions to keep people out of harms way	After this information is publically available, the Corps should ask then for an official response from the public so as to be able to answer your questions more soundly. There are too many conflicting and inconclusive solutions thrashing about including dikes, dams, levees, and the like. However, this study needs to not only provide short-term solutions but long-term plans and alternatives that protect coastal environment, keep people out of harm's way, and protect our economic assets in an ever changing climate and with huge amount of demographic and industrial development anticipated.		1		1	1
301			protect entire coast	For me (a life-long resident of the Texas coastline) I especially want to protect the whole coastline and pass on to generations the awe of its bays. They "represent ecological resources of the first order. Our coastal bays are water fingers, drowned river channels carved when the Gulf was several feet lower in elevation. When the sea level rose over five thousand years ago, these river channels were filled with Gulf water, creating places where riverine inflow combined with salt water, creating areas of immense natural productivity called estuaries." Jim Blackburn, The Book of Texas Bays (Texas A&M University Press 2004).		1	1	1	
302	Amanda Fuller, Deputy Director, Gulf of Mexico Restoration Program, National Wildlife Federation	5/9/2016	attached comment letter	On behalf of the National Wildlife Federation, thank you for the opportunity to provide the attached comments on the intent to prepare a Draft Integrated Feasibility Report and Environmental Impact Statement for the Coastal Texas Protection and Restoration Feasibility Study. Please reach out to me, Amanda Fuller, with any questions.					
303				RE: Comments from the National Wildlife Federation in response to the U.S.Army Corps of Engineers' request for comments on the intent to prepare a Draft Integrated Feasibility Report and Environmental Impact Statement (DIFR-EIS) for the Coastal Texas Protection and Restoration Study.					
304			scoping comments based on Final Reconaissance 905(b) Report	On behalf of the National Wildlife Federation (NWF) and our more than 220,000 members and supporters in Texas, I submit the following comments in response to the U.S. Army Corps of Engineers' (USACE) request for public scoping comments on the intent to prepare a Draft Integrated Feasibility Report and Environmental Impact Statement (DIFR-EIS) for the Coastal Texas					1

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				Protection and Restoration Study based on the information within the Final Reconnaissance 905(b) Report.					
305			freshwater inflows	NWF is pleased that the serious issue of the lack of adequate amounts of freshwater inflows reaching Texas bays and estuaries was captured in the Final Reconnaissance Report, although not to the full extent of the problem. In the report, the USACE recognizes Regions 2 and 3 as facing wetland sustainability threats by "diminished freshwater inflows and hydraulic modifications." NWF believes that freshwater (riverine) inflows and overland flows should be included as "significant resources" in the DIFR-EIS in all four regions of the Texas coast, as explained below. Alterations to these resources have resulted in documented issues such as negative impacts on habitats like coastal wetlands, reduced sediment deposits and subsequent erosion issues, and increased saltwater intrusion.			**1**		
306			hydrologic alterations and lack of authority to affect quantity of freshwater inflows	The Problems section of the Final Reconnaissance Report lists water shortages as resulting in "further degradation of the riverine, delta, and bay ecosystems," and explains that "anthropogenic hydrologic alterations have reduced riverine inflows and overland flows, or adversely altered tidal flows and circulation." The Opportunities section lists "identify potential hydrologic restoration to improve aquatic habitat," and the Future Without Project section clearly states that "impacts [from decreased freshwater and sediment inflows] are expected to continue and potentially increase in the future due to the needs of a growing population and the effects of climate change." Those are important issues throughout the four regions. Without adequate justification, the Planning Constraints section says that there is a "lack of authorities to affect quantity of freshwater inflows."		**1**	**1**	**1**	**1**

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307			lack of authorites to affect quantity of freshwater inflows.	NWF respectfully disagrees with the USACE's identification of "lack of authorities to affect quantity of freshwater inflows" as a reason that freshwater inflows projects should not be considered as an Ecosystem Restoration alternative. There are many available approaches, relying on existing authority, for protecting and enhancing the amount of freshwater reaching wetlands and bays and estuaries in Texas. Many of the approaches do not involve regulatory actions over water withdrawals. For example, important coastal habitat that helps provide critical runoff can be protected, mechanisms for restoring flow paths (an example includes the installation of siphons as part of the Salt Bayou Restoration Plan) can be pursued, land can be contoured to restore or enhance drainage, and other market-based transactions to acquire and convert water rights to flow protection purposes can be pursued. In addition, existing regulatory authority also may provide an avenue for protecting or restoring inflows for projects that trigger mitigation requirements.		1	1	1	1
308			water quality and quantity concerns	The Texas General Land Office's (GLO) report, The Texas Coast: Shoring Up Our Future, notes that Regions 1, 2, and 4 all have water quality and quantity concerns. Coupled with the Region 3 issues noted in the Final Reconnaissance Report, the NWF believes that the USACE should address freshwater inflow concerns and water quantity issues in all four regions across the Texas coast in the DIFR-EIS.		1	1	1	
309			connection between Coastal Storm Rsk Management and Ecosystem Restoration	Lastly, NWF believes that there should be a better connection made between Coastal Storm Risk Management (CSRM) alternatives and Ecosystem Restoration (ER) alternatives. Many coastal ecosystem restoration projects also have coastal storm protection benefits, thereby promoting coastal resiliency in Texas. Categorizing these as two entirely distinct types of alternatives seems like an artificially imposed separation that fails to recognize the potential synergies across the categories for some ecosystem restoration alternatives.	1	1	1	1	
310			coordinate with National Wildlife Federation	The National Wildlife Federation stands ready to discuss our comments further with representatives of the USACE and the GLO. We hope our recommendations will be taken into consideration as you prepare a Draft Integrated Feasibility Report and Environmental Impact Statement for the Coastal Texas Protection and Restoration Feasibility Study. Thank you for the opportunity to provide comments.					1
311	Elizabeth Spike	5/9/2015	extend scoping comment period; public engangement	Email includes attahced comments. Enclosed please find my concerns about the US Army Corps of Engineers 'Notice of Intent'	1				1

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				to prepare a 'Draft Integrated Feasibility Report and Environmental Impact Statement for the Coastal Texas Protection and Restoration Study' from the 3/31/16 Federal Register (Volume 81, #62). Below is a list of my concerns: 1. Little public input has been engaged. Extend the time period for public participation, including the public's ability to formulate questions and comments to scoping meetings to understand the study. This is a justifiable request since the project will incur high costs at the federal level---hence all citizens are stakeholders in the formulation and implementation of the study.					
312			multiple solutions, not just coastline barrier	2. The proposed coastline barrier is an insufficient solution to protect and preserve coastal ecosystems as well as built structures. Multiple solutions unique to specific geography, topography, and public lands should be applied. No one solution will solve the problem of sea level rise, storm surge in the bay, protect natural and built environments. Conduct multiple, site-specific studies.		**1**	**1**	**1**	
313			preserve protected coastal lands; prepare for planned withdrawal	3. Preserve protected coastal lands and prepare for planned withdrawal from the coast as the coast retreats inland. Allow the natural habitat to move fluidly inland as the land is submerged underwater. Natural environments serve as a buffer and barrier to storm surge yet they require these disturbances to promote species diversity. Ensure protected lands continue to exist and find an equitable method to allow residents to volunteer to move away from the coast as the coast line retreats. Thank you for reading my comments.		**1**			
314	Scott Jones, Directory of Advocacy, Galveston Bay Foundation	5/9/2016	flood and storm surge suppression mitigation strategies effects in Region 1	Email with attached comment letter. The Galveston Bay Foundation (GBF), a 501(c)(3) organization founded in 1987 whose mission is to preserve, protect and enhance Galveston Bay for present users and for posterity, provides the following comments on the Coastal Texas Protection and Restoration Feasibility Study (Coastal Texas Study) Draft Integrated Feasibility Report Environmental Impact Statement (DIFR-EIS). We appreciate the opportunity to provide our comments given that structural flood and storm surge suppression mitigation strategies could have profound and permanent effects on the health of Galveston Bay, one of the most productive estuary systems in the nation. In this letter, we are limiting our comments to the Coastal Texas Study as it relates to the Coastal Texas Study Region 1 counties of Brazoria, Chambers, Galveston and Harris.		**1**	**1**	**1**	
315			protect Galveston Bay from environmental catastrophe	GBF agrees that steps need to be taken to protect Galveston Bay from an environmental catastrophe that could result if the industrial complexes along the Houston Ship Channel, Barbours Cut, Bayport,		**1**		**1**	

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				Texas City, Freeport or other areas were impacted by a hurricane storm surge resulting in the release and spills of large amounts of petroleum and petrochemicals to adjacent waterways. We also recognize the concerns that local communities have about whether they would be protected by storm surge suppression mitigation strategies.					
316			protect environment	In addition, we understand the sense of urgency to put a storm surge protection system in place, but we must balance the need to move expeditiously while ensuring that we do not harm the Bay in the process. As our mission is the protection of the bay and its users, we believe that the environment must be protected while we attempt to protect people and infrastructure from storm surge. In fact, protecting the bay environment protects our economy by preserving our critical commercial and recreational fisheries and the tourism and ecotourism industries that provide local revenue and jobs.		1		1	
317			data and information to inform decisions	We believe that the data and information that could result from a complete and comprehensive Coastal Texas Study is critical to informing the decisions made on coastal storm risk management, i.e. storm surge suppression mitigation strategies in a holistic manner that would better ensure the long-term protection of people, infrastructure and the environment. Combining/comparing/assessing these Coastal Texas Study data with the data produced by other past and current government and non-government studies will result in a better outcome for all three.		1	1		1
318			May 2015 Coastal Texas Protection and Restoration Study Final Reconnaissance 905(b) Report alternatives are incomplete	However, at present, the Coastal Texas Study's Region 1 Sabine Pass to Galveston Bay alternatives as noted in Table 14-3 of the May 2015 Coastal Texas Protection and Restoration Study Final Reconnaissance 905(b) Report are incomplete and are not reflective of all the work on storm surge protection alternatives that are being completed at this time. Specifically, Table 14-3 is lacking other possible alternatives that are currently being proposed by the Severe Storm Prediction, Education and Evacuation from Disasters Center (SSPEED) through their Houston-Galveston Area Protection System (H-GAPS) studies. This is an extremely important resource that must be included along with the important alternatives that are being offered by Texas A&M University at Galveston or from any other source.		1	1	1	
319			include absence of the SSPEED H-GAPS alternative in Region 1	As a result, we feel that the public could be limited in the Region 1 options from which they could comment. Regardless of the reason for the absence of the SSPEED H-GAPS alternatives in the Coastal Texas Study list of alternatives, their omission severely limits its utility. GBF requests that all viable alternatives, including SPPEED H-GAPS, be included in the DIFR-EIS scope so that the public has		1			

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				a complete picture of the alternatives available in such a locally and nationally critical initiative to address storm surge.					
320			impacts to bay circulation, salinity regime and estuarine species accessabilty	In regards to environmental impacts to the Bay from Alternative G7 (Galveston Bay Coastal Barrier), we are most concerned about the impacts that could result from changes to bay circulation, salinity regimes and the movement of estuarine species in and out of the bay as a result of the placement of gates at Bolivar Roads or in any other location in the Bay.		1		1	
321			Alternative G7, tidal prism at Bolivar Roads	Initial studies indicate that the tidal prism at Bolivar Roads could be altered anywhere from 10-40%, or even more. The magnitude of the possible alteration is concerning to us. The environmental effects of the gates must be assessed carefully before a coastal spine concept is accepted, so that we know the complete benefits and costs of such a system.		1		1	
322			assess benefits and costs including environmental impacts of a gate Galveston Bay Alternative G8	The same holds true for gates being potentially located in any other location, e.g. Alternative G8 (Surge Gate and Barrier at Hartman Bridge). Again, any structural storm surge mitigation strategies can have permanent effects on the Bay, so we must proceed with due diligence. We request that the DIFR-EIS include an assessment of the benefits and costs of a gate, both from a feasibility standpoint and an environmental standpoint.		1	1	1	
323			Direct impacts Alternative G7	Regarding direct impacts from Alternative G7, we need specifics on the exact nature or specific location of a coastal barrier. We need to know if the barrier would be on the wet beach or an elevated existing roadway, or somewhere else, so we can determine the direct impacts to wetlands or other important estuarine or marine resources or the habitats of endangered species such as sea turtles or Piping plover. Likewise, we do not know the exact nature or location of the gates or if the passes would have to be narrowed, so we do not know the direct impacts to the resources/habitats in and adjacent to Bolivar Roads. We request that the DIFR-EIS include such location and direct impact information.		1	1	1	
324			sand charcteristics	Finally, in regards to the feasibility of the construction of an Alternative G7 coastal barrier, we are concerned that the quantity of appropriately-sized and quality of sand may not exist to allow for the creation and maintenance of a wet beach version that provides the environmental and aesthetic benefits as has been proposed by Texas A&M University at Galveston. We feel that such potential exists, but studies need to confirm if this option is possible. We request that the DIFR-EIS include such an analysis.		1		1	
325			implement nonstructural alternatives protect natural resources	In general, we are very supportive of non-structural solutions to manage risks from flooding and storm surge coast wide, as they keep people and infrastructure out of harm's way and have the added		1		1	

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				benefit of protecting our critically impacted natural resources such as freshwater and saltwater wetlands, seagrasses, oyster reefs, mud and tidal flats, bay shorelines and barrier islands.					
326			nonstructural in combination with structural alternatives	GBF believes that these non-structural solutions should be considered in conjunction with appropriate structural methods for which a transparent and complete accounting of environmental costs are assessed and weighed against the benefits the structural controls are purported to provide. Examples of voluntary initiatives are the Lone Star Coastal National Recreation Area, SSPEED's Texas Coastal Exchange, and continued preservation and conservation of land through conservation easements. It may be very well appropriate to utilize a combination of protection, accommodation and retreat strategies in the Galveston Bay area. This must be assessed with complete transparency and the direct and, very importantly, the indirect impacts from structural methods must be carefully assessed.		**1**		**1**	
327			comprehensive storm surge mitigationi system assessing all available alternatives	In conclusion, the Coastal Texas Study must include an assessment of all available alternatives, including the SSPEED H-GAPS. A comprehensive storm surge mitigation system must be evaluated before any structural system components are accepted for possible construction.		**1**			
328	James Lindsay, National Park Service, Chief of Science and Resource Management, Padre Island National Seashore	5/9/2-16	include scoping comments into draft report	Email with attached comment letter. This letter is in response to the public comment request on the scope of the Draft Integrated Feasibility Report and Environmental Impact Statement (through May 9, 2016). The management and staff of Padre Island National Seashore recognize the vital public engineering services the U.S. Army Corps of Engineers (USACE) provides for the nation. We respectfu lly requests the USACE to consider the following comments for inclusion into the Draft Integrated Feasibility Report and Environmental Impact Statement for the Coastal Texas Protection and Restoration Study which wil l be referred to from this poi nt on as the Draft Environmental Impact Statement (DEIS).					**1**
329			sea turtles	There are five marine turtle species in Texas (Rabalais and Rabalais 1980, Teas 1993). These species are protected as Threatened or Endangered under the Endangered Species Act (Federal Register 2011) and listed on the IUCN Reel List (2015). Green (*Chelonia mydas*) and loggerhead sea turtles (*Caretta caretta*) are listed as threatened or endangered depending on the referenced distinct population segment. Hawksbill (*Eretmocvhelys imbricata*), Kemps's ridley (*Lepidochelys kempii*) and leathcrback sea turtles (*Dermochelys coriacea*), are listed as endangered species throughout their respective ranges. The aforementioned species are protected internationally under the Convention on International Trade in Endangered Species			**1**	**1**	**1**

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				of Wild Fauna and Flora Appendix I (CITES). All five species have diminished greatly from their historic levels primarily from directed turtle fisheries, egg-harvesting, incidental captures (e.g., longlines and trawls), and habitat loss (degradation of foraging ground s and nesting beaches).					
330			sea turtles habitats	On page 38 (1st paragraph of section 10: FISH AND WILDLI FE RESOURCES CONSIDERATIONS) of the Coastal Texas Protection and Restorat i on Study Final Reco1maissance 905(b) Report, it is stated that "Five species of federally-listed sea turtles (*Chelonia mydas, Lepidochelys kempii, Caretta caretta, Eretmochelys imbricata, Dermochelys coriacea*) are common in Gulf waters along the coast." The subsequent discussion in that section describes the extensive bay systems in Texas. Use of inshore waters in Texas by sea turtles; it should be incorporated in the document. The bays and estuaries in Texas provide important critical habitat for development of juvenile green and Kemp's ridley sea turtles (*Chelonia mydas* and *Lepidochelys kempii*). The DEIS should include the use of inshore waters by sea turtles when addressing environmental impacts that may be likely during work conducted in those areas.			**1**	**1**	
331			consider sea turtle impacts	Many activities described in the Coastal Texas Protection and Restoration Study (i.e. beach nourishment, dune restoration, sediment management, shoreline armoring and construction of submerged nearshore breakwaters , Gulf shoreline ridge restoration, GIWW island restoration, and restoration of rookery islands) have high probability of negatively impacting sea turtles and sea turtle habitat if not planned and conducted with respect to these species. These impacts should be addressed i n the DEIS.		**1**	**1**	**1**	
332			limit project activities during migrationi and nesting seasons	Nesting sea turtles have been documented on all Texas Gulf beaches. To reduce disturbance or take of nesting sea turtles or sea turtles migrating to and from the nesting beaches in nearshore Gulf waters, project activities in those areas should be conducted outside of nesting season. The proposed mitigation measure would be to limit project activities in Texas nearshore waters Dec. I through July 15, each year during the same period they are closed to shrimping off of Padre Island (to 5 nautical miles), to allow for Kemp's ridley mating and nesting. Vessel strikes and boat traffic near nesting beaches have been shown to directly cause injury and/or death to females attempting to nest and affect males in sea turtle mating areas (Singe! et al. 2003, NMFS and FWS 2008). Additionally, projects that occur on Texas Gulf beaches should be limited to times outside of sea turtle nesting season, which in Texas, is Apri 11 tluough August 31 for all species of sea turtle that have been documented nesting on state beaches.		**1**	**1**	**1**	

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333			sand quality	An additional impact to nesting beaches that should be included in the EIS is careful consideration of sand quality (grain size, compaction, bacterial and chemical content) placed on Texas Gulf beaches during beach nourishment and dune restoration. Poor sand quality could negatively affect both the ability for sea turtles to traverse beaches and construct nests, as well as impair or disrupt egg development.		1	1	1	
334			project activities could impact migratory movement and nesting of Kemp's ridley sea turtle	Nearshore project activities may impede or alter the migratory movements along the main migration route of nesting Kemp's ridley sea turtles between nesting beaches and foraging grounds. The Kemp's ridley sea turtle is the most endangered of all sea turtle species and went from a nesting population of 40,000 in a single day in 1947 in Rancho Nuevo, Tamaulipas, Mexico to a low of less than 300 nesting turtles in 1985 (USFWS & NMFS 1992, Marquez et al. 2005). The nearshorc (≤37 m depth) waters of the Gulf of Mexico are utilized by Kemp's ridley for seasonal pre-nesting and post-nesting migration from foraging areas along the northern Gulf coast to the primary nesting beach in Mexico (Shaver et al. 2005, Shaver and Rubio 2008, Seney and Landry 2008). Furthermore, Kemp 's ridley foraging grounds include areas offshore of Texas (Putman et al. 2010, Shaver et al. 2013, Shaver et al. 2016).		1	1	1	
335			construction activities impacts during low water temperatures affects sea turtles	To mitigate impacts to sea turtles using inshore habitats, special consideration should be taken to cease activities such as dredging or other types of substrate alteration during times when water temperature drops below 12 degrees Celsius. Sea turtles become immobilized (stunned) below this temperature and cannot move out of the way of machinery. They can be struck by boats while floating helplessly on the water surface or easily crushed or buried by machinery or materials.		1	1	1	
336			longshore transport at Padre Island	Padre Island is unusual among Texas's coastal barrier islands; it is accreting along most of its 75 miles of Gulf of Mexico shoreline. Most Gulf of Mexico barrier islands are starved for sediment and eroding away because of dams and water withdrawals on rivers that historically provided sediment into the Gulf of Mexico. Padre Island receives sediment from the Texas longshore current carrying sediment south and from the Yucatan current moving north. The two currents collide along the PINS shoreline and the sediment they carry is dropped where they collide. "These currents transport sediment from two source areas-the Rio Grande to the south and the Brazos-Colorado River system to the north (Brezina 2004)." Erosion of islands both north and south of Padre Island also adds to the sediment load.			1		

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337			near shore sand mining near PINS	Near shore sand mining north or south of PINS has the potential to deprive the island of sediment and could shift the island from generally accreting to eroding over an extended time period. Currently the southern 10 miles of PINS is eroding due to interference with the Yucatan current caused by the jetties at the Mansfield Channel pushing the current and it 's sediment load off shore over 500 meters. This has resulted in the loss of much of the beach in the southern 10 miles of the island.		1	1	1	
338			loss of beach sediments impacts sea turtles	The Gulf beach at PINS provides feeding, nesting and brooding habitat for many species including Federally listed threatened or endanger and special status species: Least tern (*Sterna antillarum*) , Northern Aplomado Falcon (*Falco femoralis septentrionalis*), Piping Plover (*Chardrius melodus*) , Redl Knot (Calidris cantus rufa), Sprague's Pipit (*Anthus spragueii*), Whooping crane (*Grus Americana*), as well as Green Sea Turtle (Chelonia mydas), Hawksbill Sea Turtle (*Eretmochelys imbricata*), Kemp's Ridley Sea Turtle (*Lepidochelys kempii*), Leatherback Sea Turtle (Dermochelys coiacea), and Loggerhead Sea Turtle (Caretta caretta). (USFWS). Loss of sediment to the beach would likely impact these species so impacts to them should be considered within the NEPA process.			1		1
339	Charlotte Wells	5/9/2016	comment zip file is not accessible	comment zip file is not accessible					
340	Darah Damron, Chapter Manager, Surfrider Foundation	5/9/2016	coastal management and beach access concerns	The Surfrider Foundation and its five Texas chapters, which include the South Texas, Texas Coastal Bend, Texas Upper Coast, Galveston, and Central Texas Chapters ("Surfrider Foundation"), appreciate the opportunity to provide public comments in response to the Notice of Intent to Prepare Draft Integrated Feasibility Report and Environmental Impact Statement ("DIFR-EIS") for the Coastal Texas Protection and Restoration Feasibility Study ("Study"). The Surfrider Foundation is a 501(c)(3) non-profit organization that is dedicated to the protection and enjoyment of the world's oceans, waves and beaches through a powerful activist network. Our members consist of coastal recreators, fishermen, coastal property owners, and coastal business owners who support our mission. Toward this mission, and specifically toward protecting public beach access and preserving the Texas coast, the Texas chapters have been very engaged in local and statewide efforts concerned with coastal management.			1	1	
341			climate change effects on Texas coastal natural and human resources	The Texas coast faces the potential for great change due to severe storms, hurricanes and flooding. These weather activities and their effects stand to be further strengthened by climate change and resulting effects such as sea level rise. A statewide study and coordinated set of actions for reactively and proactively adapting		1	1	1	

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				to impending weather and climate events is crucial to protecting the Texas coast in the short- and long-term, to ensure that we not only protect infrastructure and communities, but that we also protect the natural coastal resources and public trust resources of Texas. It is critical that protection measures are implemented for the benefit of the coastal environment and public trust resources, not at the expense of those resources.					
342			National Environmental Policy Act requirements	The Surfrider Foundation hereby submits the following comments on the DIFR-EIS: Legal Requirements Under NEPA The National Environmental Policy Act of 1969 ("NEPA") establishes a policy to encourage a productive and enjoyable harmony between man and his environment, prevent or eliminate damage to the environment, and enrich the understanding of the ecological systems and natural resources important to the nation. (42 USC § 4321). In furtherance of this policy, NEPA requires that the Federal government use all practicable means such that the Nation may, among other duties, fulfill its responsibilities as trustee of the environment for future generations; assure for all Americans safe, healthful, productive, and aesthetically and culturally pleasing surroundings; attain the widest range of beneficial uses of the environment without degradation, risk to health or safety, or other undesirable and unintended consequences; and enhance the quality of renewable resources and approach themaximum attainable recycling of depletable resources. (42 USC § 4331(b)).					
343			NEPA requirement to prepare an Environmental Impact Statement	One of NEPA's key mandates requires Federal agencies, "to the fullest extent possible" to prepare a detailed Environmental Impact Statement for any major Federal action significantly affecting the environment, which addresses: (1) the environmental impact of the proposed action; (2) any adverse environmental effects which cannot beavoided if the proposal is implemented; (3) alternatives to the proposed action; (4) the relationship between local short-term uses of man's environment and the maintenance and enhancement of long-term productivity; and (5) any irreversible and irretrievable commitments of resources which would be involved in the proposed action should it be implemented. (42 USC § 4332). The primary purpose of an EIS is to force the government to take a "hard look" at its proposed action, and to provide a full and fair discussion of significant environmental impacts and inform decision makers and the public of the reasonable alternatives which would avoid or minimize adverse impacts or enhance the quality of the human environment. (Baltimore Gas and Electric Co. v. Natural Resources Defense Council, Inc., 462 U.S. 87	**1**	**1**	**1**	**1**	**1**

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				(1983); 40 C.F.R. § 1502.1)					
344			NEPA requirement to describe affected environment	To comply with NEPA, an EIS must describe the affected environment, that is, the area(s) to be affected by the proposed project. (40 C.F.R. § 1502.15.) Further, an EIS must fully and fairly discuss all significant environmental impacts of the project. (40 C.F.R. § 1502.1)			1		
345			describe environmental consequences including direct, indirect and cumulative impacts	All environmental consequences, including direct and indirect impacts; potential conflicts between the proposed action and other Federal, state, regional, or local land use plans or policies; and cumulative impacts must be addressed (40 C.F.R. §§ 1502.10(g), 1502.16(c), 1508.7, 1508.8.)				1	
346			NEPA requirement to describe all reasonable alternatives	An EIS must also address all reasonable alternatives that will avoid or minimize adverse effects to the environment; and the regulations describe this alternatives analysis as being the "heart of the [EIS]". (40C.F.R. § 1502.14.) An EIS must also include mitigation measures. (40 C.F.R. § 1502.14(f)(h).)		1			
347			NEPA requirement integrte preparation draft EIS concurrently with other environmental analyses	To the fullest extent possible, agencies shall prepare draft environmental impact statements concurrently with and integrated with environmental impact analyses and related surveys and studies required by the Fish and Wildlife Coordination Act (16 U.S.C. 661 et seq.), the National Historic Preservation Act of 1966 (16 U.S.C. 470 et seq.), the Endangered Species Act of 1973 (16 U.S.C. 1531 et seq.), and other environmental review laws and executive orders. (40 C.F.R. § 1502.25(a))				1	1
348			affected environment and maintaining public access to public lands	Affected Environment The Texas coast features over 367 miles of shoreline. Under the Texas Open Beaches Act and Article I, Section 33 of the Texas Constitution, the public is granted unfettered right of access to the public beach from the shore to the first line of vegetation. Giventhis, an important objective of the Study should be maintaining public shoreline and maintaining public access to these public lands				1	1
349			alternatives that preserve use of coast	The Texas coast supports many recreational and commercial uses, including but not limited to surfing, beach-going, beach-combing, fishing, and tourism. The Study should seek to preserve existing low-impact beneficial uses of the coast by prioritizing alternatives that preserve and facilitate such uses.		1		1	1
350			alternatives that avoid and minimize impacts	Specifically, the DIFR-EIS should prioritize alternatives that minimize coastal hazard risks while also avoiding or minimizing impacts to coastal resources, including: substantial alteration of natural landforms, public access, recreation, marine resources,		1		1	

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				agricultural areas, sensitive habitats, archaeological resources, and scenic and visual resources.					
351			consider sea level rise and climate change	Due to the Study's geographic scope, the DIFR-EIS must consider the potential for and effects of sea level rise as well as other climate change-related effects in the Study area, and the Study should incorporate the best-available data and science on that front.		1	1	1	
352			consider sea level rise and climate change	Moreover, the hazards/events that the Study focuses on may have effects that compound. For example, sea level rise is predicted to increase at accelerating rates, exacerbating already prevalent erosion. Climate change may increase the frequency of storms, which, when coupled with escalations in storm intensity and wave energy due to increased sea level rise, imperil Texas beaches.					
353			statewide or regional vulerablily assessment	In order for Texas coastal communities to truly understand impacts of coastal erosion, storm surge, flooding, potential sea level rise, and the cumulative effects of two or more of such events occurring in tandem, Surfrider Foundation suggests a statewide or regional vulnerability assessments to help identify highly vulnerable areas, anticipate episodic erosion events, and encourage strategic shoreline planning in those areas. This will help jurisdictions calculate appropriate setbacks and preempt emergency permits. This effort could be tied into the current regional coastal sediment planning efforts around the State.		1	1		
354			erosion hazard avoidance and erosion response e.g., Dune Protection Act and others	Relevant State Law and Policy Texas laws and regulations relating to erosion hazard avoidance and erosion response include Management of Coastal Public Land, Open Beaches Act (OBA), Dune Protection Act, Coastal Erosion Planning & Response Act, CEPRA Program Rules and GLO Beach/Dune Rules. The Dune Protection Act requires counties to establish a dune protection line on the Gulf shoreline. Only limited uses and activities are allowed seaward of this line.		1	1		1
355			Construction of geotubes in the Beach/Dune System and direct effects	Title 31, Chapter 15 (Coastal Area Planning) governs the construction of geotubes in Texas. Section 501.26, Policies for Construction in the Beach/Dune System, outlines restrictions on coastal constructions in detail. In general, it prohibits construction "that results in the material weakening of dunes and material damage to dune vegetation." Construction that does not do so "shall be sited, designed, constructed, maintained, and operated so that adverse 'effects' . . . on the sediment budget and critical dune areas are avoided to the greatest extent practicable."2 "Effects" include: direct effects--those impacts on public beach use and access, on critical dune areas, or on dunes and dune vegetation seaward of a dune protection line which are caused by an action and occur at the same time and place; and indirect effects--those impacts on beach					

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				use and access, on critical dune areas, or on dunes and dune vegetation seaward of a dune protection line which are caused by an action and are later in time or farther removed in distance than a direct effect, but are still reasonably foreseeable. Indirect effects may include growth inducing effects and other effects related to induced changes in the pattern of land use, population density, or growth rate, and related effects on air and water and other natural systems, including ecosystems. "Effects" and "impacts" as used in this subchapter are synonymous. "Effects" may be ecological (such as the effects on natural resources and on the components, structures, and functioning of affected ecosystems), aesthetic, historic, cultural, economic, social, or health, whether direct, indirect, or cumulative.3					
356			public beach access	Substantial interference with access to and use of the public beach is one adverse effect given considerable attention in §15.16. This section identifies the criteria used to determine whether a structure poses such a substantial interference.		**1**	**1**	**1**	
357			non-structural erosion methods	Furthermore, "non-structural erosion response methods such as beach nourishment, sediment bypassing, nearshore sediment berms, and planting of vegetation shall be preferred instead of structural erosion response methods."		**1**			
358			limitations of erosion response structures	Constructions of new erosion response structures and enlargement, improvement, repair or maintenance of existing erosion response structures shall not be approved except in limited circumstances described in 31 Tex. Admin. Code tit. 31, §501.26 (b).6 This law also sets out further limitations on shore protection projects. For example, "a shore protection project shall not adversely affect sea turtle nesting areas or an endangered species", "public input shall be incorporated into a local government's review and approval of a shore protection project," and "sand from the beach/dune system shall not be used to fill or cover a shore protection project."7		**1**	**1**	**1**	
359			develop reasonable alternatives that avoid and minimize effects	Alternatives and Impacts The DIFR-EIS must seek to meet Study objectives through consideration of all reasonable alternatives that will avoid or minimize adverse effects to the environment. This should include a "no project" alternative. Below, we have worked to characterize some alternatives that we believe should be, or will be, considered in the DIFR-EIS:		**1**			
360			development setbacks	Regulatory, policy, and administrative alternatives i. Development setbacks: Setbacks are a proactive measure that can be established and implemented to prevent development from occurring too close to areas and features that could negatively impact the development or vice versa over the projected lifespan of the development. Especially considering that storm surge, flooding,		**1**		**1**	

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				erosion, and sea level rise cause shorelines to change both in the near-term and long-term, adequate setbacks are an effective mechanism for avoiding shoreline encroachment upon development. There are currently no statewide setback requirements for new construction in Texas. Both counties and cities can mandate a regulatory setback to address beach erosion, but many have not done so to-date. Local governments that have mandated setbacks are the City of Galveston, South Padre Island, Cameron County and Nueces County.					
361			madatory setbacks	The DIFR-EIS should consider the feasibility and appropriateness of mandatory local or statewide setbacks or setback minimums from wetlands and water bodies--including but not limited to the Gulf of Mexico, rivers, streams, and bays--taking into consideration factors such as erosion rates, sea level rise, storm events, flooding, cumulative effects of the aforementioned, and other hazards in establishing the appropriate distance for setback. Enforcing and expanding setbacks from the first line of vegetation on the coast will help keep existing dune structures healthy and prevent loss of protective natural dune vegetation, which holds the sand dunes in place during storm events.		1		1	
362			enforcement of existing setbacks	Enforcement of existing setbacks, including the rolling easement established by Texas Open Beaches Act, as well as future setbacks, is crucial to ensure their effectiveness.		1		1	1
363			minimize development on barrier islands	Minimizing development on barrier islands: In recognition of both the sensitive and changing environments associated with barrier islands, restricting future development and redevelopment on barrier islands should be considered. Region 2 (Coastal Bend) includes some the best preserved barrier islands on the Texas Coast and every effort should be made to continue their preservation and natural function.		1	1	1	
364			managed retreat	Managed retreat: Privately or publicly owned development located in unstable areas threatened by coastal erosion may ultimately be damaged or destroyed by the ocean's natural processes. In many cases the most effective solution to the threat of damage to the structure in the short- or long-term, is relocating the structures away from hazardous areas (away from an encroaching shoreline; out of a flood zone; etc.). The concept of managed retreat refers to the gradual removal or relocation of structures away from unstable erosion-prone areas. Managed retreat is most effective in situations where erosion threats have been anticipated and plans made in well in advance of an imminent threat to the structure.		1			

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365			managed retreat strategies benefit coastal ecosystem	Retreat strategies promote the ability of natural systems (e.g., beaches, dunes, wetlands) to respond to wave action and migrate landward, ensuring their survival. Managed retreat strategies can benefit coastal ecosystems and serve as protective buffers against sea level rise and storm events while continuing to provide access, recreation opportunities and other social benefits.		1		1	
366			land acquisition, conservation easement, tranfer of development credit, flood insurance reform, designate coastal hazard areas	There are a number of other means that might warrant consideration, to the extent that they facilitate the Study objectives avoid impacts to coastal resources, include: - Land acquisition - Conservation easement - Transfer of development credit - acquire the development potential of one parcel of land and allowing that development credit to be used in another location, to direct development away from certain areas and into other areas that can better accommodate development - Flood insurance reform - Produce overlay zones designating coastal hazard areas with stricter development, setback and rebuilding ordinances and resilient designrequirements;		1			
367			discourage beach nourishment in areas where beach is maintining itself	Beach nourishment: Beach nourishment is simply depositing sand on the beach in order to widen it. Sand nourishment is a costly, temporary solution. The projects are not intended to have a long life span and must be renourished on a regular basis, creating a cycle that will go on until the money runs out or shorefront buildings are relocated. There are many considerations that must addressed when designing a nourishment project. If the grains of sand are not exactly the same size as that of the natural beach, the newly nourished beach may erode faster than the natural beach was eroding. Beach nourishment has several potential ecosystem impacts: burying existing habitat, changing the sand composition of the beach and clouding nearshore waters as the beach fill settles. By placing new fill material on the beach, beach fill buries existing ecosystems on the beach and in nearshore areas. This can disturb both the sandbased ecological communities on the beach and the ecosystems immediately offshore. Beach nourishment also moves the shoreline seaward into deeper water, causing the beach to drop off quickly, posing a hazard to swimmers. This may impact the surf for a period of time, causing the waves to break as shore break, until the beach and sandbars can reestablish a level of equilibrium. For these reasons, beach nourishment should be discouraged in areas where beaches and dunes seem to be maintaining, such as in Region 2 (Coastal Bend).		1	1	1	

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368			beach nourishment at North Padre Island	This said, beach nourishment can sometimes be an effective short- and mid-term solution. For example, beach nourishment in front of the seawall on North Padre Island after major storm events seems to be an effective means of maintaining beach width and preserve public uses. Beach nourishment projects should be continuously evaluated on a case-by-case basis. Standardized guidance for determining and minimizing impacts of sand replenishment should be established to ensure projects do not have unintentional negative repercussions. To the extent that beaches and beach "roads" are maintained or nourished, minimizing use of heavy equipment so that sand is not pushed into the Gulf is very important to maintain good surf breaks.		1	1	1	
369			coastal resilance	Dune and beach restoration: Coastal resilience will become increasingly important in the face of sea level rise and the increasing frequency of severe storms associated with climate change. Restored dunes and beaches help to trap and anchor windblown sand and, when well established, enhance coastal defenses by absorbing additional wave energy and maintaining a sand reservoir that helps minimize erosion. It is fundamental that Texas continues to examine and prioritize coastal dune restoration and preservation as critical elements of coastal management strategies. Coastal dunes provide a first line of defense against hazards such as high-energy waves and flooding, and have the additional benefit of serving as habitat themselves. As such, they can help to stave off storm surge and slow shoreline erosion rates. Additionally, dune vegetation can help stabilize the dunes, so maintaining and restoring dune vegetation is also important. As for the beach, leaving seaweed on the beach helps retain sand and reduce erosion as well as provide food and habitat.		1	1	1	
370			"living shoreline"	"Living shoreline" adaptation mechanisms have been gaining recognition. Living shorelines substitute natural vegetation for hard armoring structures, relying on natural methods for shoreline erosion control that do not sever existing connections between riparian, intertidal, estuarine and aquatic areas essential for water quality, ecosystem health, and habitat values. Pursuing cutting-edge projects such as oyster reef construction, marsh building, protection of coastal trees, and the use of "living shorelines" will restore and strengthen impaired ecosystems. Restoring critical habitat will decrease wave energy, lessen erosion, and stabilize sediments; which in turn will produce healthy ecosystem that respond more adequately to coastal erosion.		1	1	1	
371			weland and watershed restoration	Wetland and watershed restoration: Restoration of watershed, estuary, and wetland ecosystems should be analyzed to promote the		1	1	1	

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				resumption of natural sediment transport to the coast and to restore natural water retention and percolation functions in developed watersheds.					
372			runoff flooding	Runoff of surface waters, especially during storm events, can contribute to flooding and cause other issues such as loss of soils and downstream pollution. Runoff, and the problems it causes, can be prevented through creation of retention features and maximizing permeable surfaces. The Study might consider the appropriateness and effect of regionally-implemented small scale projects (home and business) and/or larger scale projects (i.e. implementing low impact development policies) to mitigate flooding impacts.		1	1		
373			coastal armoring/seawals	Coastal armoring/seawalls: While designed as a stopgap measure to protect individual properties from erosion, coastal armoring transfers the harm to the shoreline and to the public, impeding access to the beach and water and destroying coastal resources. Coastal armoring, which includes seawalls and bluff retention devices, are large man-made structures built into a shoreline or bluff to harden the coast. These structures create or contribute to many negative and potentially longlasting impacts, including: reducing sand supply and beach size, increasing erosion, destroying habitat, diminishing the quality of recreational activities at the beach, and limiting public access to the beach. This directly impacts millions of people who visit the Texas coastline to enjoy beach gazing, swimming, walking, jogging, surfing, sunbathing, beach co mbing and building sandcastles. The impact of coastal armoringon these activities—including the impact on the coastal economy—is truly a cause for concern.		1		1	
374			shoreline armoring and loss of sand	It is well established that shoreline armoring causes a net loss of sand to the beach. A natural, unarmored shoreline is dynamic, with sand levels fluctuating seasonally and annually. Throughout the year, the coastline loses sand that is transported into the ocean by waves and wind, and gains sand from rivers and coastal bluff erosion. The replacement of sand is critical for maintaining beach area. Without it, there is a net loss in beach area over time as sand is transported out to sea.					
375			seawalls and coastal armoring interupt sand replenishment	Seawalls and other coastal armoring devices interrupt these natural balancing processes and inhibit the replenishment of sand from natural bluff erosion by placing a hardened artificial barrier between the bluff and the beach, resulting in a decrease in sand and ultimately narrowing the beach. While coastal armoring devices are designed to halt the impacts of erosion in a localized area by anchoring the shoreline, these structures actually exacerbate erosion—causing the		1	1	1	

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				very impact they are designed to prevent. Wave energy deflecting off the front of armoring structures exacerbates erosion on the sides of the structures, thereby increasing the vulnerability of neighboring properties to increased erosion impacts and leading to the need for yet more armoring.9 This isespecially problematic given that the sand supply is choked off by the same coastal armoring structures. With increased erosion and reduced sand supply, the beach in front of the coastal armoring device will retreat to the face of the structure until no beach remains, cutting off the public's access to that section of the beach and to surrounding areas.10 Put simply, when placed on a dynamic, eroding beach, armoring structures will cause that beach to narrow and eventually disappear.					
376			coastal armoring decreases ecological value and recreational values	Coastal armoring devices create other adverse impacts to coastal resources. By reducing the size of the beach and disrupting natural processes, they decrease the ecological value and recreational value of the beach, impairing the public's ability to access and enjoy coastal areas.		1		1	
377			coastal armoring reduces size of beach and affects various values of beach	Coastal armoring structures greatly diminish habitat for species that rely on sandy beaches, marshes, bluffs and dune ecosystems. Shorebirds and coastal flora and fauna require these ecosystems for spawning, nesting, and feeding and have few alternatives when great swaths of the coastline are armored. A smaller beach area also limits the activities for which the beach can be used. When the whole beach is covered at high tide, there is no longer room for runners to jog or children to play. Surfers are doubly harmed: treasured surf breaks are inaccessible at high tide because of beach loss and the quality of surf breaks declines as waves rebound off of the concrete structures and change wave patterns.		1		1	
378			coastal armoring guidelines	In instances where coastal armoring is deemed unavoidable or mandatory, Surfrider Foundation offers the following guidelines: • Develop consistent, transparent and standard methodologies to calculate and assess each type of impact of all coastal armoring/development projects. • Require emergency structures to be temporary, i.e. a revetment build with sandbags. This would help incentivize those who may be actively seeking to avoid the armoring permitting process. •Require the removal of armoring within a fixed time (i.e. when the structure it is in place to protect has met its expected lifespan)		1			
379			dikes, groins jettie impacts	Other structural alternatives on the coast: Dikes, groins, parallel groins, and jetties impact the natural flow of coastal sediment in the nearshore, albeit in different ways. Despite their differences, by interrupting the natural flow of sediment, they can act to displace		1		1	

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				sediment from supplying portions of a beach and result in narrowing of the beach.					
380			beach access	Relevant Legal Matters In recent years, protection of public beach access in Texas has faced difficulties due to litigious homeowners, which is highlighted by three examples: (1) the modification of the Beach and Dune Rules following Hurricanes Rita and Ike; (2) the Severance litigation; and (3) the State's ongoing enforcement efforts in the Brannan matter. As described in more detail below, each of these events deonstrates he political and practical constraints that already imperil public beach access in Texas		**1**	**1**	**1**	**1**
381			Texas beach and dune rules	As of 2005, Texas' Beach and Dune rules barred beachfront owners from reconnecting utility service to their homes after a storm event if the storm moved the line of vegetation landward and the subject home came to lay on the public beach. In theory, each home that came to lay on the public beach after a storm event should have been subject to an enforcement action requiring removal of the home, consistent with the language in Texas' required real estate acknowledgement. However, in the aftermath of a particularly severe storm season in 2004 and the looming threat of litigation by homeowners, the Texas Land Commissioner decided that the number of homes that had come to lay on the public beach was too many to enforce against at one time, and exercised his authority under the Open Beaches Act to issue a two-year moratorium on enforcement against these homes. When the moratorium ended, there was still no comprehensive strategy to determine which homes to enforce against, and therefore a de facto policy of non-enforcement. Recognizing that there were still numerous homes on the public beach (many directly impeding public access and presenting public safety hazards) and that many of these homes were in need of repairs, in 2009 the General Land Office modified the Beach and Dune Rules to permit repairs that would otherwise be forbidden to homes that are seaward of the vegetation line upon the issuance of a disaster recovery order finding that the property is seaward of the vegetation line solely as the result of a storm event.			**1**		**1**
382			challenge to Open Beach Act	The second major development was the litigation in Severance v. Patterson, a constitutional challenge to Texas' enforcement of the Open Beaches Act. Setting aside the long and complicated procedural history, Severance is significant because the Supreme Court of Texas uprooted long-settled understandings of the legal definition of the public beach in Texas, left the case law inerpretations uncertain, and likely produced more litigious oceanfront homeowners in its wake. This shift in beach access			**1**		**1**

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				jurisprudence calls into question the extent of the right of public beach access over major stretches of the Texas coast. The scope and strength of the Severance decision as case law is unclear, and it will likely continue to be tested in future litigation.					
383			Terxas Open Beach Act and court cases	The Brannan v. State of Texas case involves an ongoing battle between beachfront homeowners against the State, General Land Commissioner, Attorney General and Defendants Surfrider Foundation and Environmental Defense who intervened in the case. The beachfront homeowners challenged public beach access easements (or right to make beneficial use of the land) in Surfside Beach, where the plaintiffs' houses ended up on the sandy beach after Tropical Storm Frances in 1998. At issue are the rolling easement doctrine and the strength of the Texas Open Beaches Act. Surfrider activists testified to the public's use over decades of beach-going through engaging in usual beach related activities, such as swimming, boating, surfing, fishing, picnicking, sunbathing, beach-combing and relaxing. In August 2009, the Court of Appeals for the First District of Texas issued a ruling defending the Texas Open Beaches Act and requiring removal of houses that moved into the public beach easement as a result of the storm. On January 25, 2013, the Texas Supreme Court remanded the issue to the Appellate Court to rule in light of the Severance v. Patterson decision. The case is currently before the trial court awaiting further factual findings.			**1**		**1**
384			takings	In light of the recent case law that has arguably encouraged property owners to make takings claims in court, this demonstrates the need to protect the beach in ways that will not lead to takings claims and will allow for maximum beach access in establishing a storm surge response system.		**1**	**1**		**1**
385			protect coastal resources and follow NEPA mandates	Conclusion The Surfrider Foundation appreciates the opportunity to provide these comments. The foregoing matters are significant issues, which warrant inclusion and in-depth analysis in the DIFR-EIS. This Study is important to ensure that our ocean and coastal resources are protected to the maximum extent possible for generations to come, and NEPA demands that all feasible alternatives, impacts, cumulative impacts, and mitigation measures be considered with respect to the Study.	**1**	**1**	**1**	**1**	**1**
386	Andrew Vrana	5/9/2016	public information campaign about current state of Texas Gulf Coast and vulnerabilities	Please find my attached letter in response to the request for public comment on a draft Environmental Impact Statement for a Coastal Texas Protection and Restoration Feasibility Study. Please confirm that the agency has received my letter and that it has been entered into the review process. In response to the call for public comment on the proposed EIS for the Texas Gulf Coast I			**1**		**1**

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				request that you consider the following: 1. Engage in a public information campaign that demonstrates the current state of the Texas Gulf Coast including all of its assets as well as vulnerabilities. Illustrate future outcomes that the various scopes of work being proposed might result in based on different courses of action from a non-invasive approach that engages natural systems and long term processes of coastal morphology. These should be compared and contrasted with the engineered solutions proposed by the CoE with third party assessment from experts outside of the agency to assist with interpreting the outcomes for the public.					
387			publish current state of Texas coast	2. Publish this work across a broad audience throughout the Gulf Coast in Beaumont/Port Arthur, Houston/Galveston, Corpus Christi and Brownsville.			**1**		**1**
388			disclose potential impacts of proposed alternatives	3. This public disclosure should IN DETAIL describe and illustrate the changes and detrimental effects of the proposed engineered solutions to the following public assets on the Texas Gulf Coast to recreational users. Personally I am concerned about he following areas where engineered solutions are being proposed: the Galveston Bay region with its oyster reefs, seagrass beds, salt, brackish, and freshwater marshes, tidal flats, San Luis Pass, Bolivar Peninsula, West Galveston Island, Follets Island, Aransas, Anahuac and Brazoria national wildlife refuges, Galveston Island and Sea Rim state parks, habitats for endangered/threatened species habitat (like Whooping Cranes and Piping Plovers), sea turtle nesting beaches. These natural, recreational, tourist, and wildlife-centered places must not be harmed by any study proposals.		**1**		**1**	**1**
389			cumulative impacts with past changes	4. The study must put into historical perspective the proposed changes to the Gulf Coast by demonstrating past efforts to control nature with seawalls, jetties, waterways, channelized canals and bayous, artificial retention ponds and clearly disclose the failures of these efforts with third-party assessment form a broad spectrum of expertise including ecologists, environmental engineers and recreational fisherman who have a nuanced understand of the public benefits of natural alternatives to the engineered solutions.		**1**		**1**	**1**
390			consider inland development impacts to coast	5. The study can not only consider the edge of the landmass where it meets the sea as the location of interventions to mitigate sea level rise, storm surges and other flooding events. It must look beyond the symptoms and honestly assess the effects that inland development has on exacerbating these problems from the coast line, the marsh/estuary system, through the urbanized bayou-drainage system and into the coastal prairie that is rapidly being consumed by development which is adding impervious cover to a		**1**	**1**	**1**	

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				vital part of the coastal ecosystem that is clearly needed given the recent flooding events in Houston.					
391			petrochemical and industrial facilities need levee protection	6. The petrochemical and industrial facilities in the Houston Ship Channel and beyond that are processing and storing hazardous materials in the flood zone with inadequate levee protection need to be compelled to address the real risk they are posing to the public and the environment beyond their stakeholders and insurance underwriters. If their storm protection structures are inadequate then this governing body needs to assert its authority by exposing the grave risk of a Category 5 hurricane exceeding the magnitude of Ike and mandating remedies that prevent catastrophes that will eclipse recent events like the BP Horizon oil spill.		1	1	1	
392			buy-outs	7. Allow marsh ecologies to be regenerated, maintained, cultivated and expanded as sea level rises. Land that should never have been developed in the floodways, 100 and even 500 year flood planes should be obtained by the federal government and state through buy-out programs and redirected on a path toward the reintegration of natural systems that protect the mainland from storm surges while providing habitat for water cleansing ecologies like oyster reef and seagrass to thrive the rest of the time. Thank you for your consideration of my concerns for which I am passionately committed to.		1		1	
				Totals	**36**	**272**	**163**	**246**	**93**

Table 4. Sierra Club Scoping Comments From a Total of 2082 Individuals Responding With the Same Three Comments. This table categorizes scoping comments by EIS subject matter, which is where an individual comment would likely be addressed in the draft EIS

Comment #	Person /Agency	Date	Theme of Comment	NEPA Scoping Comment (may be paraphrased or summarized)	EIS Section Where Comment Could be Addressed				
					PN	ALT	AE	EC	CC
1	A Puza	5/5/2016	impacts due to human development and population growth	The study must address the impact from development and population growth that occurs in the storm surge areas along the Texas coast and may result in habitat destruction.			1	1	
			significant natural resources that could be negatively impacted	Significant natural resources that could be negatively impacted by a coastal barrier protection system include: bottomland hardwood forested wetlands, Galveston Bay, oyster reefs, seagrass beds, salt, brackish, and freshwater marshes, tidal flats, San Luis Pass, Bolivar Peninsula, West Galveston Island, Follets Island, national wildlife refuges, state parks, fish passes, endangered/threatened bird habitat, and sea turtle nesting beaches.			1	1	

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Comment #	Person /Agency	Date	Theme of Comment	NEPA Scoping Comment (may be paraphrased or summarized)	EIS Section Where Comment Could be Addressed				
					PN	ALT	AE	EC	CC
			focus on non-structural solutions and disclose biological effects	Changes to our natural resources should focus on non-structural solutions or physical solutions that are adapted to specific areas and have low environmental impacts.		1		1	
2			protect coastal environment; full analysis of effects	Solutions must protect the coastal environment, and a full study and analysis of the biological effects of construction of any man-made coastal barrier system must be determined, and alternative ways to solve the problem must be considered.					
3			nature based solutions; access to outdoor recreation, diversity	Alternatives should include a nature-based solution that improves access to outdoor recreation and conservation of Texas' diverse coastal ecosystems.		1	1	1	
4	A. Mervyn & Marilyn Carse	5/5/2016	same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
5	A. Todd	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
6	Aaron Echternacht	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
7	Abby Ives	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
8	Ace Hull	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
9	Adam D'Onofrio	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
10	Adam Trauger	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
11	Adina Parsley	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
12	Adrian Smith	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
13	Adrienne Neff	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
14	Adrienne Ross	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
15	Aileen O'brien	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
16	Aimee Couture	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
17	Aimee Mendes	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
18	Ainslie Gilligan	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
19	Al Bradley	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
20	Al Chazin	5/9/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
21	Alan Arnold	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
22	Alan Davis	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
23	Alan Jasper	5/7/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
24	Alana Willroth	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
25	Albert Bechtel	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
26	Albert Fecko	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
27	Albert Fecko	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
28	Albert Tahhan	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
29	Alea Nadeem	5/7/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
30	Alessandro Barbato	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
31	Alessandro Raganato	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
32	Alex Andrews	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
33	Alex Blin	5/9/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
34	Alex Gardiner	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
35	Alex Taylor	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	

Table 4. Sierra Club Scoping Comments From a Total of 2082 Individuals Responding With the Same Three Comments. This table categorizes scoping comments by EIS subject matter, which is where an individual comment would likely be addressed in the draft EIS

Comment #	Person /Agency	Date	Theme of Comment	NEPA Scoping Comment (may be paraphrased or summarized)	EIS Section Where Comment Could be Addressed				
					PN	ALT	AE	EC	CC
36	Alfred Griffith	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
37	Alice Parra	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
38	Alice Polesky	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
39	Alicia Caraballo	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
40	Alicia Jackson	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
41	Alison Bateman-House	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
42	Alison Wasielewski	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
43	Alison Zyla	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
44	Allen Corte	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
45	Allie Palmer	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
46	Allie Tennant	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
47	Allison Anderson	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
48	Allison Burgess	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
49	Amala Kohler	5/10/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
50	Amanda Graves	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
51	Amanda Scuder	5/8/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
52	Amy Elepano	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
53	Amy Hopkins	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
54	Amy Lagrone	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
55	Amy Mall	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
56	Amy Parker	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
57	Amy Rafiee	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
58	Amy Wahl	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
59	Ana Ramirez	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
60	Anatoliy Postolatiy	5/7/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
61	André Henrique Bacci	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
62	Andrea Angulo	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
63	Andrea F.	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
64	Andrea Kilcher	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
65	Andreas Vlasiadis	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
66	Andree Armand	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
67	Anette Juhl Allton	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
68	Angela Black	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
69	Ángela De Jesús Cerviño González	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
70	Angela Kohn	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
71	Angela Leventis	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
72	Angela Lockhart	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
73	Angela White	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
74	Angelika Braxton	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
75	Angeline Zalben	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	

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Comment #	Person /Agency	Date	Theme of Comment	NEPA Scoping Comment (may be paraphrased or summarized)	EIS Section Where Comment Could be Addressed				
					PN	ALT	AE	EC	CC
76	Animae Chi	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
77	Animae Chi	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
78	Anita Hansen	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
79	Anita Hoos	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
80	Anita Murray	5/7/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
81	Anita Shumaker	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
82	Anita Wisch	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
83	Anita Wisch	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
84	Ann Bein	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
85	Ann Debolt	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
86	Ann Hallowell	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
87	Ann Johnson	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
88	Ann Lavine	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
89	Ann Mccall	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
90	Ann Nevans	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
91	Ann Sandritter	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
92	Ann Siegel	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
93	Anna Drummond	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
94	Anna Lukaszewicz	5/7/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
95	Anna Masenello	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
96	Annabelle Herbert	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
97	Annamaria Rizzo	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
98	Annamay Waldman	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
99	Anne Elise Grégoire	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
100	Anne Henry	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
101	Anne Orth	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
102	Anne Parzick	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
103	Anne Seidel	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
104	Anne Settanni	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
105	Anne Streeter	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
106	Anneli Kulack	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
107	Anne-Marie Hewitt	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
108	Anne-Marie Sancho	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
109	Annette Barsby	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
110	Annette Hartshorne	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
111	Annette Pieniazek	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
112	Annette Pirrone	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
113	Annie Coustaty	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
114	Annoula Wylderich	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
115	Anthony Calvelage	5/7/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
116	Anthony Donnici	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	

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					PN	ALT	AE	EC	CC
117	Anthony Montapert	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
118	Anthony P. Vessicchio	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
119	Anthony Wong	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
120	Antje Fray	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
121	Antje Peters	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
122	Antoinette Rainoldi	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
123	Antoinette Sellitto	5/7/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
124	Anushka Drescher	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
125	April Eversole	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
126	Ariane Sullivan	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
127	Arlene Steinberg	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
128	Arlene Wolf	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
129	Arlene Zimmer	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
130	Armando A. Garcia	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
131	Aron Shevis	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
132	Arthur Connor	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
133	Ashley Christian-Koep	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
134	Ashley Goodson	5/9/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
135	Ashley Hunsberger	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
136	Astrid Suchanek	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
137	Athena Coroneos	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
138	Avril Lomas	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
139	B & J Metzler	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
140	B W	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
141	B. Wimmel	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
142	Barb Anders	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
143	Barbara Arlen	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
144	Barbara Becker	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
145	Barbara Bennigson	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
146	Barbara Bradley	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
147	Barbara Charles	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
148	Barbara Delmestri	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
149	Barbara Harper	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
150	Barbara Jannicelli	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
151	Barbara Johnson	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
152	Barbara King	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
153	Barbara Klein	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
154	Barbara Lafaver Gleason	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
155	Barbara Leake	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
156	Barbara Mango	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
157	Barbara Reibel	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	

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					PN	ALT	AE	EC	CC
158	Barbara Richett	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
159	Barbara Rozen	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
160	Barbara Schrader	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
161	Barbara Sharma	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
162	Barbara Singer	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
163	Barbara Stamp	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
164	Barbara Sullivan	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
165	Barbara Vanness	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
166	Barry Medlin	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
167	Becky Binder	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
168	Becky Ewers	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
169	Becky Monger	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
170	Ben Martin	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
171	Benigno Del Rio	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
172	Bernadette Methven	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
173	Bernard Thuring	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
174	Bertrand Taesch	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
175	Beth Flake	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
176	Beth Marszalek	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
177	Beth O'brien	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
178	Beth Stanberry	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
179	Bettie Auble	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
180	Bettina Bowers	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
181	Bettina Roeder	5/7/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
182	Betty J. Van Wicklen	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
183	Betty Smisek	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
184	Betty Swain	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
185	Beverly Conroy	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
186	Beverly Stickley	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
187	Bhuvanesh Bhatt	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
188	Billie Talamantes	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
189	Blaine Ackley	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
190	Bo Dhi	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
191	Boaz Shacham	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
192	Bob Brucker	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
193	Bob Brucker	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
194	Bob Hagele	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
195	Bob Leppo	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
196	Bob Lichtenbert	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
197	Bob Steininger	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
198	Bob Thomas	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	

Table 4. Sierra Club Scoping Comments From a Total of 2082 Individuals Responding With the Same Three Comments. This table categorizes scoping comments by EIS subject matter, which is where an individual comment would likely be addressed in the draft EIS

Comment #	Person /Agency	Date	Theme of Comment	NEPA Scoping Comment (may be paraphrased or summarized)	EIS Section Where Comment Could be Addressed				
					PN	ALT	AE	EC	CC
199	Bonnie Gallik	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
200	Bonnie German	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
201	Bonnie Hamilton	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
202	Bonnie Horeski	5/7/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
203	Bonnie Lynn Mackinnon	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
204	Bonnie M	5/8/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
205	Brad Scoble	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
206	Brandy Cole	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
207	Brenda Artz	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
208	Brenda Galardo	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
209	Brenda Robinson	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
210	Brenda Simmons	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
211	Brent Palmer	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
212	Bret Johnson	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
213	Brian Bienkowski	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
214	Brian Field	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
215	Brian Glenn	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
216	Brian Glover	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
217	Brian Gray	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
218	Brian Murphy	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
219	Brian Paradise	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
220	Brian Yanke	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
221	Brooke Cochran	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
222	Bruce Sadowskas	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
223	C K	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
224	C. Martinez	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
225	Camelia Mitu	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
226	Camilla Spicer	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
227	Camilla Torsander	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
228	Camille Cox	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
229	Camille Gilbert	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
230	Camille Kozlowski	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
231	Candace Laporte	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
232	Candace Volz	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
233	Candy Bowman	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
234	Candy Leblanc	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
235	Candy Riley	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
236	Candy Rocha	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
237	Capitolina Santos	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
238	Capri Angel	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
239	Cara Ammon	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	

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Comment #	Person /Agency	Date	Theme of Comment	NEPA Scoping Comment (may be paraphrased or summarized)	EIS Section Where Comment Could be Addressed				
					PN	ALT	AE	EC	CC
240	Cara Nims	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
241	Carl Burchfiel	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
242	Carl Gosper	5/8/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
243	Carl Oerke Jr	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
244	Carl Tyndall	5/8/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
245	Carla Behrens	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
246	Carla Montagno	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
247	Carlene Visperas	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
248	Carlo Zucchi	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
249	Carlos Quilez	5/10/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
250	Carmen Elisa Bonilla-Jones	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
251	Carmen Sebastian	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
252	Carmen Willcox	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
253	Carol Becker	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
254	Carol Davis	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
255	Carol Devoss	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
256	Carol Devoss	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
257	Carol Devoss	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
258	Carol Fletcher	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
259	Carol Hoke	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
260	Carol Larkin	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
261	Carol Lenz	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
262	Carol Piccione	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
263	Carol Sanders	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
264	Carol Stevens	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
265	Carol Stokrocki	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
266	Carol Taggart	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
267	Carol Thompson	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
268	Carol Tompkins	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
269	Carol Tompkins	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
270	Carol Treacy	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
271	Carole De La Cruz	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
272	Carole Smudin	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
273	Carole Wilmoth	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
274	Carolyn De Mirjian	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
275	Carolyn Massey	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
276	Carolyn Mone	5/7/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
277	Carolyn Suchenicz	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
278	Carolyn Walker	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
279	Carrie Blackery-West	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
280	Carrie Cole	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	

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Comment #	Person /Agency	Date	Theme of Comment	NEPA Scoping Comment (may be paraphrased or summarized)	EIS Section Where Comment Could be Addressed				
					PN	ALT	AE	EC	CC
281	Carrie Long	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
282	Caryn Graves	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
283	Casee Maxfield	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
284	Cassandra Browning	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
285	Cassandra Treppeda	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
286	Cassio Saverino	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
287	Catherine Jubb	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
288	Catherine Keys	5/8/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
289	Catherine Kryg	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
290	Catherine Loudis	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
291	Catherine Martin-Brown	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
292	Catherine Raymond	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
293	Cathleen Foley	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
294	Cathy Barton	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
295	Cathy Brownlee	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
296	Cathy Scott	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
297	Cave Man	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
298	César Pérez Cerviño	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
299	César Pérez Fernández	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
300	Chantal Beveren	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
301	Chantal Krommenhacker	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
302	Charleen Strelke	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
303	Charlene Boydston	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
304	Charles Brumleve	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
305	Charles Mercklen	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
306	Charles Mercklen	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
307	Charles Phillips	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
308	Charles Ruas	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
309	Charles Shlimon	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
310	Charles Smith	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
311	Charlotte Kortum	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
312	Cherie Morales	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
313	Cherine Bauer	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
314	Cherrie Kerwell	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
315	Cherry Chau	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
316	Cheryl Costigan	5/7/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
317	Cheryl Dzubak	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
318	Cheryl Fergeson	5/10/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
319	Cheryl Jennings	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
320	Cheryl Rudin	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
321	Cheryl Watters	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	

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Comment #	Person /Agency	Date	Theme of Comment	NEPA Scoping Comment (may be paraphrased or summarized)	EIS Section Where Comment Could be Addressed				
					PN	ALT	AE	EC	CC
322	Chris Busse	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
323	Chris Drumright	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
324	Chris Mackrell	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
325	Chris Middleton	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
326	Chris Ottosen	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
327	Chris Washington	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
328	Chris Wrinn	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
329	Christian Danto	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
330	Christina Crosby	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
331	Christina Frutiger	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
332	Christina Treadwell	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
333	Christina Zorn	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
334	Christine Carol Abraham	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
335	Christine Crawford	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
336	Christine Fluet	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
337	Christine Goetz	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
338	Christine Harrison	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
339	Christine Hinze	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
340	Christine M. Roane	5/9/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
341	Christine Neary	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
342	Christine Wolff	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
343	Christopher Feehan	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
344	Christopher Lee	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
345	Christopher Panayi	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
346	Christopher Panny	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
347	Christopher Pincetich	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
348	Christopher Riff	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
349	Christopher Tower	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
350	Christy Carosella	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
351	Cindy Charnetski	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
352	Cindy Grove	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
353	Cl Westin	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
354	Claire Mehiris	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
355	Clara Pichi Goossens	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
356	Clarice Gilchrist	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
357	Claude Robert	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
358	Claudia Bassi	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
359	Claudia Petrikowski	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
360	Claudia Richner	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
361	Claudia Wornum	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
362	Cliff Gray	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	

Table 4. Sierra Club Scoping Comments From a Total of 2082 Individuals Responding With the Same Three Comments. This table categorizes scoping comments by EIS subject matter, which is where an individual comment would likely be addressed in the draft EIS

Comment #	Person /Agency	Date	Theme of Comment	NEPA Scoping Comment (may be paraphrased or summarized)	EIS Section Where Comment Could be Addressed				
					PN	ALT	AE	EC	CC
363	Colette Nusbaum Vallet	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
364	Colleen Mcglone	5/9/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
365	Colleen Northmore	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
366	Colonel Meyer	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
367	Connor Hansell	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
368	Cora Quisumbing-King	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
369	Cord Monroe	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
370	Corey Barnes	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
371	Cornelia Teed	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
372	Cristi Beehn	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
373	Cristina Ciucu	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
374	Cristina Tirelli	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
375	Crystal Rector	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
376	Crystal Young	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
377	Cynthia Arnold	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
378	Cynthia Culp	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
379	Cynthia Hines	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
380	Cynthia Kramer	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
381	Cynthia Murphy	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
382	D Schoech	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
383	Dagmar Grabsch	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
384	Dalton Grady	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
385	Dameon Hansen	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
386	Damien Breau	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
387	Dan Esposito	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
388	Dan Gordon	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
389	Dan Hubbard	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
390	Dan O'keefe	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
391	Dan White	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
392	Dana Banks	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
393	Dana Wilson	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
394	Danichert Emmanuelle	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
395	Daniel Safronoff	5/7/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
396	Daniel Sylvester	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
397	Danielle Pirotte	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
398	Danuta Watola	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
399	Darcia Ostling	5/7/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
400	Darlene Byrd	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
401	Darrick Christodaro	5/7/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
402	David Bary	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
403	David Brodnax	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	

Table 4. Sierra Club Scoping Comments From a Total of 2082 Individuals Responding With the Same Three Comments. This table categorizes scoping comments by EIS subject matter, which is where an individual comment would likely be addressed in the draft EIS

Comment #	Person /Agency	Date	Theme of Comment	NEPA Scoping Comment (may be paraphrased or summarized)	EIS Section Where Comment Could be Addressed				
					PN	ALT	AE	EC	CC
404	David Broer-Leroux	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
405	David Brooks	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
406	David Burkhart	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
407	David Burkhart	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
408	David Burns	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
409	David Fisher	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
410	David Fisher	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
411	David Holloway	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
412	David Houseman	5/7/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
413	David Klass	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
414	David Laramie	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
415	David Meade	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
416	David Parker	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
417	David Pierpaoli	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
418	David Rothage	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
419	David Seifert	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
420	David Smith	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
421	David Van Kempen	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
422	David Van Kempen	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
423	David Walker	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
424	Dawn Albanese	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
425	Dawn Florio	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
426	Dawn Hendry	5/8/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
427	Dawn Stephenson	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
428	Dax Riner	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
429	Dea Smith	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
430	Deane Plaister	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
431	Deanne O'donnell	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
432	Deb Hooley	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
433	Debbie Bonnet	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
434	Debbie Koundry	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
435	Debbie Kreuser	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
436	Debbie Slack	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
437	Debbie Williamson	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
438	Debi Bergsma	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
439	Debi Binkley	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
440	Deborah Burckhardt	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
441	Deborah Dahlgren	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
442	Deborah Efron	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
443	Deborah Kieffer	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
444	Deborah Lipman	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	

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Comment #	Person /Agency	Date	Theme of Comment	NEPA Scoping Comment (may be paraphrased or summarized)	EIS Section Where Comment Could be Addressed				
					PN	ALT	AE	EC	CC
445	Deborah Reeves	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
446	Deborah Smith	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
447	Deborah Spencer	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
448	Deborah Stowe	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
449	Deborah Warot	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
450	Deborah Welsh	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
451	Debra Atlas	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
452	Debra Combs	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
453	Debra Rehn	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
454	Debra Sherman	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
455	Debra Young	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
456	Debz Jones	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
457	Deen Warren	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
458	Deena Sadek	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
459	Deidre Silverman	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
460	Deirdre Balaam	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
461	Denise Bonk	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
462	Denise Brennan	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
463	Denise Frullo	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
464	Dennis Branse	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
465	Dennis Feichtinger	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
466	Dennis Feichtinger	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
467	Dennis Miller	5/8/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
468	Dennis Miller	5/8/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
469	Dennis O'brien	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
470	Dennis Wolff	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
471	Derek Gendvil	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
472	Desiree Silverstone	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
473	Devon Ravine	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
474	Diana Anderson	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
475	Diana David	5/8/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
476	Diana Dee	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
477	Diana Dorer	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
478	Diana Duffy	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
479	Diana Madoshi	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
480	Diana Morales	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
481	Diana Reid	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
482	Diana Schwab	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
483	Diana Tomlinson	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
484	Diana Ward	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
485	Diane Aliperti	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	

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Comment #	Person /Agency	Date	Theme of Comment	NEPA Scoping Comment (may be paraphrased or summarized)	EIS Section Where Comment Could be Addressed				
					PN	ALT	AE	EC	CC
486	Diane Bolman	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
487	Diane Clark	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
488	Diane Eisenhower	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
489	Diane Finley	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
490	Diane London	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
491	Diane Petrillo	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
492	Diane R Morgan	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
493	Diane Randgaard	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
494	Diane Seaman	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
495	Dianne Douglas	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
496	Dianne Winne	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
497	Didier Hussenot	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
498	Dina Monaghan	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
499	Dirk Reed	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
500	Dixie Meyer	5/8/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
501	Dixie Meyer	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
502	Dixie Meyer	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
503	Dominique Boulay	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
504	Don Lipsitt	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
505	Don Milligan	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
506	Don Najita	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
507	Don Schwartz	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
508	Dona Laschiava	5/7/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
509	Donald Dimock	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
510	Donald Garlit	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
511	Donald Lockard	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
512	Donald Shaw	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
513	Donald Taylor	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
514	Donlon Mcgovern	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
515	Donna Deese	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
516	Donna Deese	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
517	Donna George	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
518	Donna Knipp	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
519	Donna Lumsden	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
520	Donna Paden	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
521	Donna Stoddard	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
522	Dorian Bowen	5/9/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
523	Doris Potter	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
524	Doris Warnstedt	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
525	Dorothy Stoner	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
526	Doug Landau	5/7/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	

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					PN	ALT	AE	EC	CC
527	Douglas Lass	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
528	Douglas Randolph	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
529	Douglas Rives	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
530	Douglas Schneller	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
531	Douglas Wagoner	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
532	Dr Antonio Scognamiglio	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
533	Dr Stefan Petersen	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
534	Dr. Douglas E. Johnston, Jr.	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
535	Dr. James Wright	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
536	Dr. Robert And Ginny Bonometti (Ltc Usa Ret.)	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
537	Drephal Véronique	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
538	Drew Martin	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
539	Dwayne Munar	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
540	E. A. Cleary	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
541	Earl Gregg Swem Iii	5/8/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
542	Edeltraut Renk	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
543	Edna Mullen	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
544	Edward Cubero	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
545	Edward Rengers	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
546	Edwina Smith	5/9/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
547	Eileen Macmillan	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
548	Eileen Norris	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
549	Eileen Sands	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
550	Eileen Snitzer	5/9/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
551	Elaine Becker	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
552	Elaine Becker	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
553	Elaine Benjamin	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
554	Elaine Crowder	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
555	Elaine Erickson	5/9/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
556	Elaine Eudy	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
557	Elaine Fischer	5/7/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
558	Elaine Fitzgerald	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
559	Elaine Guernari	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
560	Elaine Johnson	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
561	Elaine Michaels	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
562	Elaine Phillips	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
563	Eleanor Cohen	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
564	Elisa Donnadieu	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
565	Elisabeth Richter	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
566	Elise Hanley	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	

Table 4. Sierra Club Scoping Comments From a Total of 2082 Individuals Responding With the Same Three Comments. This table categorizes scoping comments by EIS subject matter, which is where an individual comment would likely be addressed in the draft EIS

Comment #	Person /Agency	Date	Theme of Comment	NEPA Scoping Comment (may be paraphrased or summarized)	EIS Section Where Comment Could be Addressed				
					PN	ALT	AE	EC	CC
567	Elise Mccoubrie	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
568	Elise Mechain	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
569	Elissa Wagner	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
570	Elizabeth Barrett	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
571	Elizabeth Beatty	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
572	Elizabeth Fowler	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
573	Elizabeth Graham	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
574	Elizabeth Kramer	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
575	Elizabeth Montgomery	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
576	Elizabeth Murfitt	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
577	Elizabeth Redifer	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
578	Elizabeth Rose	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
579	Elke Hoppenbrouwers	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
580	Ellen Domke	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
581	Ellen Franzen	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
582	Ellen Mcconnell	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
583	Ellen North	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
584	Ellie Friedman	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
585	Elma Tassi	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
586	Elsbeth Meier	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
587	Elsbeth Meier	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
588	Emilia Boccagna	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
589	Emily Alpert	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
590	Emily Dickinson-Adams	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
591	Emily Willoughby	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
592	Emmett Blankenship	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
593	Eric Edwards	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
594	Eric Lesseur	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
595	Eric Nylen	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
596	Eric Stevenson	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
597	Erica Heimberg	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
598	Erica Johanson	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
599	Erik Larue	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
600	Erika Mello	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
601	Erika Mello	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
602	Erika Somlai	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
603	Erin Thompson	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
604	Ernie Walters	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
605	Esther Garvett	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
606	Eugene Gourley	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	

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Comment #	Person /Agency	Date	Theme of Comment	NEPA Scoping Comment (may be paraphrased or summarized)	EIS Section Where Comment Could be Addressed				
					PN	ALT	AE	EC	CC
607	Eusebio Manuel Vestias Pecurto Vestias	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
608	Eva Gersbach	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
609	Eva Goss	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
610	Eva Hofberg	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
611	Evelyn Ball	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
612	Evelyn Coltman	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
613	Evi Meuris	5/8/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
614	Fabienne Jouve	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
615	Fabrice Oswald	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
616	Fallon Hume	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
617	Family Doria	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
618	Fay Forman	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
619	Federica Ciciriello	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
620	Felicia Dale	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
621	Felix And Judi Fusco	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
622	Felix And Judi Fusco	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
623	Fernando Ulloa	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
624	Fiona Stuart	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
625	Flavia Brizio	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
626	Florence Brin	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
627	Forrest P. Smith Jr	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
628	Fran Collier	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
629	France Fayet	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
630	Francine Cohen	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
631	Francisco Javier Pérez Cerviño	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
632	Francoise Phipps	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
633	Frank Aamodt	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
634	Frank Curtis	5/7/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
635	Frank Farinacci	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
636	Frank Gomez	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
637	Fred Rilling	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
638	Frederick Hamilton	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
639	Frederick Yucht	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
640	Frederique Joly	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
641	G & B Martin	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
642	G Bertelmann	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
643	G.W. Cheney	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
644	Gabi Janssen	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
645	Gabi Schöngart	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
646	Gabriela Sosa	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	

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Comment #	Person /Agency	Date	Theme of Comment	NEPA Scoping Comment (may be paraphrased or summarized)	EIS Section Where Comment Could be Addressed				
					PN	ALT	AE	EC	CC
647	Gail Alford	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
648	Gail Camhi	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
649	Gail Caswell	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
650	Gail Inzerillo-Latella	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
651	Gail Johnston	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
652	Gail Koza	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
653	Gail Mcmullen	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
654	Gail Roberts	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
655	Gail Ryland	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
656	Gail Walter	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
657	Gale Rullmann	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
658	Gale Thomssen	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
659	Garry Taroli	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
660	Gary Hull	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
661	Gary Raehse	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
662	Gavin Bornholtz	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
663	Gene A Hawkins	5/7/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
664	Gene R. Trapp	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
665	George Craciun	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
666	George Diaz	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
667	George Grace	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
668	George Liddle	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
669	George Milkowski	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
670	George Picchioni	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
671	George Rock	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
672	George Stadnik	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
673	Georgeanne Matranga	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
674	Georgeanne Matranga	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
675	Georgia Shankel	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
676	Georgia Thurgood	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
677	Georgios Kechagioglou	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
678	Gerald Brimhall	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
679	Gerald Gouge	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
680	Gérard Breaudat	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
681	Gérard Couchoud	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
682	Geri Willett	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
683	Gerry Smolinsky	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
684	Gerry Smolinsky	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
685	Gertraud Enter	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
686	Gianpaolol Galletti	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
687	Gil Panzer	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	

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Comment #	Person /Agency	Date	Theme of Comment	NEPA Scoping Comment (may be paraphrased or summarized)	EIS Section Where Comment Could be Addressed				
					PN	ALT	AE	EC	CC
688	Gilles Gaulard	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
689	Gillian Devine	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
690	Gillian Miller	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
691	Gina Estrada	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
692	Gina Estrada	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
693	Gina Megay	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
694	Ginny Griffin	5/9/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
695	Gisele Challis	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
696	Giuseppe Cortinovis	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
697	Gladys Eddy-Lee	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
698	Glenna Harris	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
699	Gloria Jean Lopez Augelli	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
700	Gloria Picchetti	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
701	Gloria Sall	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
702	Gloria Shen	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
703	Gloria Smith	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
704	Gr Lewis	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
705	Grace Neff	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
706	Graham Harrell	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
707	Grant Sorrell	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
708	Greg Allbee	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
709	Greg Pennington	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
710	Greg Sells	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
711	Greg Singer	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
712	Gregory Elems	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
713	Gregory Freeman	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
714	Gregory Kampwirth	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
715	Gregory Petzold	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
716	Gregry Loomis	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
717	Guadalupe Yanez	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
718	Gustavo Gomes	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
719	Gwendalina Carrera	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
720	Gwenn Meltzer	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
721	H. Guh	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
722	H. Guh	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
723	Haas Nadine	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
724	Hannelore Barke	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
725	Harold Denenberg	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
726	Harriet Mccleary	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
727	Harry Debie	5/9/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
728	Heather Harris	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	

Table 4. Sierra Club Scoping Comments From a Total of 2082 Individuals Responding With the Same Three Comments. This table categorizes scoping comments by EIS subject matter, which is where an individual comment would likely be addressed in the draft EIS

Comment #	Person /Agency	Date	Theme of Comment	NEPA Scoping Comment (may be paraphrased or summarized)	EIS Section Where Comment Could be Addressed				
					PN	ALT	AE	EC	CC
729	Heather Rider	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
730	Heide Catherina Coppotelli	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
731	Heike Brown	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
732	Heike Feldmann	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
733	Hein Moritz	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
734	Helen Golding	5/8/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
735	Helen Nelson	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
736	Helene Weil	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
737	Helene Whitson	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
738	Henk Prij	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
739	Henry Kamrath	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
740	Henry Sanchez	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
741	Herb Allenson	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
742	Hervé Bérard	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
743	Hilary Capstick	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
744	Hilary Malyon	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
745	Hollie Hollon	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
746	Hollie Hollon	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
747	Holly Chisholm	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
748	Holly Crawford	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
749	Holly Mcduffie	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
750	Horst Pfand	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
751	Howard Edelstein	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
752	Ian Shelley	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
753	Ida Vilhelmsen	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
754	Ilah Hartung	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
755	Ilene Pincus	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
756	Ilene Pincus	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
757	Ilona Pfaff	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
758	Ilya Fadeev	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
759	Ingrid Broecker	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
760	Ingrid Suratny-Atay	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
761	Irena Franchi	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
762	Irene M. & Thomas A.(Son) Guaraldi	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
763	Irene Roos	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
764	Iris Chynoweth	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
765	Iris Sinai	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
766	Iris Sinai	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
767	Irwin Hoenig	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
768	Isabel Araujo	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	

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Comment #	Person /Agency	Date	Theme of Comment	NEPA Scoping Comment (may be paraphrased or summarized)	EIS Section Where Comment Could be Addressed				
					PN	ALT	AE	EC	CC
769	Isabelle Boisgard	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
770	Isabelle Duet	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
771	Ivana Dzobova	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
772	J Alexander	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
773	J Lasahn	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
774	J Pratt	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
775	J Thompson	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
776	J V	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
777	J. Barry Gurdin	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
778	J. David Scott	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
779	Jack Fay	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
780	Jack Steinberg	5/8/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
781	Jacki Hileman	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
782	Jackie Demarais	5/8/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
783	Jackie Stolfi	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
784	Jackie Stolze	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
785	Jackie Tryggeseth	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
786	Jaclyn Smith	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
787	Jacqueline Tessman	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
788	Jacques Parize	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
789	Jacqui Skill	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
790	Jaime Amador	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
791	Jaime Cammarata	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
792	Jake Evans	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
793	James & April Thompson	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
794	James Bess	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
795	James Chambo	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
796	James Cronin	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
797	James Dixon	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
798	James H. Fitch	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
799	James Hansen	5/8/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
800	James Jachimiak	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
801	James Mcclure	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
802	James Mulcare	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
803	James Pentelow	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
804	James Wee	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
805	Jamie Gronko	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
806	Jamie Shultz	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
807	Jan Batchelder	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
808	Jan Mccreary	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
809	Jan Novotny	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	

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Comment #	Person /Agency	Date	Theme of Comment	NEPA Scoping Comment (may be paraphrased or summarized)	EIS Section Where Comment Could be Addressed				
					PN	ALT	AE	EC	CC
810	Jan Payne	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
811	Jan Petrikowski	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
812	Jana Perinchief	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
813	Jane Callahan	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
814	Jane Cindric	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
815	Jane Curry	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
816	Jane Drews	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
817	Jane Nachazel	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
818	Jane Wilson	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
819	Janeene Porcher	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
820	Janelle Pollock	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
821	Janet Chase	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
822	Janet Delaney	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
823	Janet Forman	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
824	Janet Fraidstern	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
825	Janet G Heinle	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
826	Janet Moncure	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
827	Janet Neihart	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
828	Janet Robinson	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
829	Janet Steggerda	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
830	Janette Shablow	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
831	Janice Banks	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
832	Janice Barnes	5/7/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
833	Janice Phillips	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
834	Janice Waldron	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
835	Janine Moore	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
836	Janine Perlman	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
837	Jan-Paul Alon	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
838	Jared Brenner	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
839	Jared Cornelia	5/8/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
840	Jaremy Lynch	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
841	Jarrett Cloud	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
842	Jason Bowman	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
843	Jason Bowman	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
844	Jason Chin	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
845	Jason Crawford	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
846	Jason Fish	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
847	Jason Palmer	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
848	Javier Mendez	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
849	Jay Clements	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
850	Jay Rice	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	

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Comment #	Person /Agency	Date	Theme of Comment	NEPA Scoping Comment (may be paraphrased or summarized)	EIS Section Where Comment Could be Addressed				
					PN	ALT	AE	EC	CC
851	Jayna Williams	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
852	Jayne Cerny	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
853	Jean Cameron	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
854	Jean Cameron	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
855	Jean Kuhn	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
856	Jean Naples	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
857	Jean Terschuren-Devillersj	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
858	Jean-Claude Challis	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
859	Jeanette Holmgren	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
860	Jeanette Taylor	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
861	Jean-François Ricci	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
862	Jean-Louis Brunsperger	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
863	Jean-Luc Seurre	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
864	Jean-Marc Gusella	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
865	Jeanne Dutto	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
866	Jeanne Friedman	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
867	Jeanne Gordon	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
868	Jeanne Held-Warmkessel	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
869	Jeanne Puerta	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
870	Jeannette Sablick	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
871	Jeannette Sander	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
872	Jeannie Finlay-Kochanowski	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
873	Jeannine Lish	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
874	Jean-Paul Cezeur	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
875	Jeff Hopkins	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
876	Jeff Omans	5/8/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
877	Jeff Thayer	5/7/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
878	Jeffery Cunha	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
879	Jeffery Cunha	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
880	Jeffery Garcia	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
881	Jeffrey Gomes	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
882	Jeffrey Hurwitz	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
883	Jelica Roland	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
884	Jen Scibetta	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
885	Jenifer Hartman	5/7/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
886	Jenifer Hartman	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
887	Jenna Westwood	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
888	Jennifer Chemel	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
889	Jennifer Collins	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
890	Jennifer Cunningham	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
891	Jennifer Fulks	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	

Table 4. Sierra Club Scoping Comments From a Total of 2082 Individuals Responding With the Same Three Comments. This table categorizes scoping comments by EIS subject matter, which is where an individual comment would likely be addressed in the draft EIS

Comment #	Person /Agency	Date	Theme of Comment	NEPA Scoping Comment (may be paraphrased or summarized)	EIS Section Where Comment Could be Addressed				
					PN	ALT	AE	EC	CC
892	Jennifer Harrison	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
893	Jennifer Lowans	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
894	Jennifer Payne	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
895	Jennifer Pritchard	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
896	Jennifer Simbrow	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
897	Jenny Bramlette	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
898	Jeremy Herrera	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
899	Jeremy Mandel	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
900	Jeriene Walberg	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
901	Jerry Hudgins	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
902	Jerry Rivers	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
903	Jerry Stout	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
904	Jesse Quintero	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
905	Jessi Yap	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
906	Jessica Cresseveur	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
907	Jessica Denham	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
908	Jessica Fielden, Md	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
909	Jessica Roberts	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
910	Jill Alibrandi	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
911	Jill Cresko	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
912	Jill Hirschi	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
913	Jillian Forschner	5/8/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
914	Jim Brunton	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
915	Jim Freeberg	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
916	Jim May	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
917	Jimmy Phi	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
918	Jl Angell	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
919	Jo Ann Foglia	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
920	Jo Oneill	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
921	Joan Armer	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
922	Joan Ciccarone	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
923	Joan How	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
924	Joan Johnston	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
925	Joan Keijer	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
926	Joan Smith	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
927	Joan Smith	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
928	Joan Squires	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
929	Joanie Steinhaus	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
930	Joanie Steinhaus	5/3/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
931	Joann Polley	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
932	Joanna Welch	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	

Table 4. Sierra Club Scoping Comments From a Total of 2082 Individuals Responding With the Same Three Comments. This table categorizes scoping comments by EIS subject matter, which is where an individual comment would likely be addressed in the draft EIS

Comment #	Person /Agency	Date	Theme of Comment	NEPA Scoping Comment (may be paraphrased or summarized)	EIS Section Where Comment Could be Addressed				
					PN	ALT	AE	EC	CC
933	Joanne Kondratieff	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
934	Jocelyne Williams	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
935	Jodie Busch	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
936	Jody Macdonald	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
937	Joe Buhowsky	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
938	Joe Marcinkowski	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
939	Joe Mccain	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
940	Joe Moreira	5/7/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
941	Joel And Mary Bonham	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
942	Joellen Rudolph	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
943	Joey Delhoste	5/9/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
944	Joey Rossi	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
945	John And Nuri Pierce	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
946	John Bernard	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
947	John Byland	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
948	John Cannon	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
949	John Carroll	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
950	John Deadman	5/10/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
951	John Frey	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
952	John Gatehouse	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
953	John Glebs	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
954	John Hetlage	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
955	John Holtzclaw	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
956	John Jacobs	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
957	John Kirchner	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
958	John Liddy	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
959	John M Schaus	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
960	John Macdonald	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
961	John Macfadyen	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
962	John Papandrea	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
963	John Rokas	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
964	John Ruhl	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
965	John Sodrel	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
966	John Staunton	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
967	John Sutkowski	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
968	John Teevan	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
969	John Thomas	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
970	John Viacrucis	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
971	John Walker	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
972	John Willson	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
973	Joii Resnick	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	

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Comment #	Person /Agency	Date	Theme of Comment	NEPA Scoping Comment (may be paraphrased or summarized)	EIS Section Where Comment Could be Addressed				
					PN	ALT	AE	EC	CC
974	Jon Hayenga	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
975	Jon Povill	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
976	Jon Swart	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
977	Jonathan Boyne	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
978	Jordan Fox	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
979	Jordan Gl	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
980	Jörg Gaiser	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
981	Jorge De Cecco	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
982	Jorge J Tamargo	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
983	Jorge Mouriño Lourido	5/9/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
984	Jose De Arteaga	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
985	Jose Rodriguez	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
986	Joseph Baldi	5/8/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
987	Joseph Brigandi	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
988	Joseph Hoess	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
989	Joseph Lawson	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
990	Joseph M. Varon	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
991	Joseph Quirk	5/9/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
992	Joseph Waldner Md	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
993	Joseph Wenzel	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
994	Joshua Heffron	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
995	Joy Zadaca	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
996	Joyce Carlson-Leavitt	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
997	Joyce Dixon	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
998	Joyce Hudson	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
999	Joyce Wheaton	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1000	Juan Masello	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1001	Juanita Hull	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1002	Judi Poulson	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1003	Judith Anderson	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1004	Judith Carlson	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1005	Judith Hazelton	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1006	Judith M. Fitzgerald	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1007	Judith Peter	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1008	Judith Sanders	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1009	Judith Shematek	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1010	Judith Smith	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1011	Judith Swain	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1012	Judy Childers	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1013	Judy Krach	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1014	Judy Krach	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	

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Comment #	Person /Agency	Date	Theme of Comment	NEPA Scoping Comment (may be paraphrased or summarized)	EIS Section Where Comment Could be Addressed				
					PN	ALT	AE	EC	CC
1015	Judy Merrick	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1016	Judy Moran	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1017	Judy Pizarro	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1018	Judy Whitehouse	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1019	Juidith Cohen	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1020	Julene Weaver	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1021	Jules Berchem	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1022	Juli Kring	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1023	Julia O'neal	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1024	Julia Waller	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1025	Julie Ford	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1026	Julie Guthrie	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1027	Julie Litwin	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1028	Julie Rose	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1029	Julie Sasaoka	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1030	Julie Schultz	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1031	Julie Skelton	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1032	Julie Viergutz	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1033	June Green	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1034	Justin Makaruse	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1035	K Danowski	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1036	K Hanlon	5/7/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1037	K R	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1038	Kaatje Adams	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1039	Kacey Donston	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1040	Karen Anderson	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1041	Karen Anderson	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1042	Karen Berger	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1043	Karen Bond	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1044	Karen Borgardt	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1045	Karen Cappa	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1046	Karen Carr	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1047	Karen Christian	5/8/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1048	Karen Dunson	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1049	Karen Enstrom	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1050	Karen Labarge	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1051	Karen Martin	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1052	Karen Mchugh	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1053	Karen Naiman	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1054	Karen Raccio	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1055	Karen Reggio	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	

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					PN	ALT	AE	EC	CC
1056	Karen Shatz	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1057	Karen Stickney	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1058	Karen Vasily	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1059	Karen West	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1060	Karen White	5/9/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1061	Karen Witkus	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1062	Kari Mueller	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1063	Karl Armens	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1064	Karl Mortimer	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1065	Karla Berezoski	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1066	Karla Devine	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1067	Karline Rousseau	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1068	Karolyn Burns	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1069	Kate Baird	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1070	Kate Kenner	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1071	Kathaline Wright	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1072	Katherine Babiak	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1073	Katherine Cadury	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1074	Katherine Lewis	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1075	Katherine Meyer	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1076	Katherine Schoonover	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1077	Kathleen Gable	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1078	Kathleen Galligan	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1079	Kathleen Kaiser	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1080	Kathleen Metevier-Rizza	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1081	Kathleen Moraski	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1082	Kathleen Phillips	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1083	Kathleen Tyson	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1084	Kathleen Watson	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1085	Kathrin Hentzschel	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1086	Kathryn Hirt	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1087	Kathryn Mckinley	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1088	Kathryn Morrow	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1089	Kathryn Rose	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1090	Kathryn Spence	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1091	Kathy Abby	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1092	Kathy Haverkamp	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1093	Kathy Kowalchick	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1094	Katie Brady	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1095	Katie Whittaker	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1096	Katrin Rosinski	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	

Table 4. Sierra Club Scoping Comments From a Total of 2082 Individuals Responding With the Same Three Comments. This table categorizes scoping comments by EIS subject matter, which is where an individual comment would likely be addressed in the draft EIS

Comment #	Person /Agency	Date	Theme of Comment	NEPA Scoping Comment (may be paraphrased or summarized)	EIS Section Where Comment Could be Addressed				
					PN	ALT	AE	EC	CC
1097	Kay Brockman-Mederas	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1098	Kay Martin	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1099	Kay Patterson	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1100	Kayo Yoshida	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1101	Keelin Pohl	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1102	Keith Vaughn	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1103	Kelley Lamke	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1104	Kelly Dunn	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1105	Kelly Irwin	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1106	Kelly Lyon	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1107	Kelly Riley	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1108	Kelsey Baker	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1109	Ken Gibb	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1110	Ken Goldsmith	5/7/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1111	Ken Greenwald	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1112	Ken Windrum	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1113	Kenneth Bird	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1114	Kent Wright	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1115	Kerry C. Kelso	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1116	Kerry C. Kelso	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1117	Kerry C. Kelso	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1118	Kerry Pfeifer	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1119	Kevin Davis	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1120	Kevin Hughes	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1121	Kevin Rolfes	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1122	Kevin Vaught	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1123	Kevin Walsh	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1124	Kia Hendrix	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1125	Killian Patrick	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1126	Kim & Sue Benston	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1127	Kim Haling	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1128	Kim King	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1129	Kim Mccoy	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1130	Kim Morrill	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1131	Kim Patterson	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1132	Kim Pow	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1133	Kim Sellon	5/8/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1134	Kimberly Allen	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1135	Kimberly Crane	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1136	Kimberly Duncan	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1137	Kimberly Frey	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	

Table 4. Sierra Club Scoping Comments From a Total of 2082 Individuals Responding With the Same Three Comments. This table categorizes scoping comments by EIS subject matter, which is where an individual comment would likely be addressed in the draft EIS

Comment #	Person /Agency	Date	Theme of Comment	NEPA Scoping Comment (may be paraphrased or summarized)	EIS Section Where Comment Could be Addressed				
					PN	ALT	AE	EC	CC
1138	Kimberly Payne	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1139	Kimberly Schmidt	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1140	Kirsten Brueggerhoff	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1141	Kj Linarez	5/7/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1142	Koraljka Augu??Tan	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1143	Krista Munster	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1144	Kristen Deville	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1145	Kristen Krupicka	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1146	Kristin Sunada	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1147	Kristina Fukuda-Schmid	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1148	Kristine Janson	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1149	Kristy Ojala	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1150	Krystyna Wo?Niak	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1151	Kurt Cruger	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1152	Kwankisha Crawford	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1153	Kx Bx	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1154	Kym Waugh	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1155	Kyra Rice	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1156	L Baxter	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1157	L Kifer	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1158	Lacey Hicks	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1159	Lacey Levitt	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1160	Larry Chapman	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1161	Larry Hale	5/7/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1162	Larry Lapuyade	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1163	Larry Olivier	5/9/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1164	Laura Chariton	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1165	Laura De La Garza	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1166	Laura Deming	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1167	Laura Mendoza	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1168	Laura Regan	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1169	Laura Yamase	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1170	Lauraine Wilson	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1171	Lauren Bauernschmidt	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1172	Lauren Kupp	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1173	Lauren Wallen	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1174	Laurie Bailey	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1175	Lavonne Gunn	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1176	Lawrence Crowley	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1177	Lawrence Lefkowitz	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1178	Laza Papa	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	

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Comment #	Person /Agency	Date	Theme of Comment	NEPA Scoping Comment (may be paraphrased or summarized)	EIS Section Where Comment Could be Addressed				
					PN	ALT	AE	EC	CC
1179	Leah Jacobs	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1180	Leah Player	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1181	Lee Johnson	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1182	Lee Oler	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1183	Lee Rowan	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1184	Lee Stough	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1185	Lehman Holder	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1186	Lenore Reeves	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1187	Leonora Midgley	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1188	Les Rees	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1189	Les Rees	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1190	Les Roberts	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1191	Leslie Ann Rodarte	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1192	Leslie Krygier	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1193	Leslie Michetti	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1194	Leslie Mueller	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1195	Leslie Richardson	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1196	Letizia Balsamo	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1197	Liane Casten	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1198	Lilia Tiemi Saito	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1199	Lilian Burch	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1200	Lilinoe Smith	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1201	Lilly Kohler	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1202	Lily Lau-Enright	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1203	Linda Bescript	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1204	Linda Butler	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1205	Linda Cleland	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1206	Linda Fay Sampson	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1207	Linda Gazzola	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1208	Linda Headley	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1209	Linda Honadel	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1210	Linda Massey	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1211	Linda Mceachrontaylor	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1212	Linda Mitchell	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1213	Linda Mulder	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1214	Linda Muntner	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1215	Linda Petrulias	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1216	Linda Rolf	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1217	Linda Trevillian	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1218	Linda Underhill	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1219	Lindsay Mugglestone	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	

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Comment #	Person /Agency	Date	Theme of Comment	NEPA Scoping Comment (may be paraphrased or summarized)	EIS Section Where Comment Could be Addressed				
					PN	ALT	AE	EC	CC
1220	Line Ringgaard	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1221	Line Taillade	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1222	Lisa Blanck	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1223	Lisa Boldizsar	5/8/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1224	Lisa Caudill	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1225	Lisa Collon	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1226	Lisa Conner	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1227	Lisa Ferguson	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1228	Lisa Jacobson	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1229	Lisa Johnson	5/8/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1230	Lisa Kenion	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1231	Lisa Mazzola	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1232	Lisa Miller	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1233	Lisa Reich	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1234	Lisa Steele	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1235	Lisa Udel	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1236	Lisa Vitale Arnold	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1237	Lisa Whipple	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1238	Lise Kastigar	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1239	Litsa Katsarou	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1240	Liv Biron	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1241	Liv Biron	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1242	Liz Ciocea	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1243	Liz Garratt	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1244	Ljubica Landeka	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1245	Lloyd Hedger	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1246	Lois Bruce	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1247	Lois Cheesman	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1248	Lois Dunn	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1249	Lois Hamilton	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1250	Lois Nottingham	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1251	Lois Wilson	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1252	Lorenz Steininger	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1253	Lori Beth Kidd	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1254	Lori Mulvey	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1255	Lori Obrien	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1256	Lori Triggs	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1257	Lorien Smyer	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1258	Lorraine Dumas	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1259	Lorraine Laprade	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1260	Louise Mann	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	

Table 4. Sierra Club Scoping Comments From a Total of 2082 Individuals Responding With the Same Three Comments. This table categorizes scoping comments by EIS subject matter, which is where an individual comment would likely be addressed in the draft EIS

Comment #	Person /Agency	Date	Theme of Comment	NEPA Scoping Comment (may be paraphrased or summarized)	EIS Section Where Comment Could be Addressed				
					PN	ALT	AE	EC	CC
1261	Louise Slattery	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1262	Lucy Mattinen	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1263	Lucy Peixoto	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1264	Lucy Tyndall	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1265	Luise Frech	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1266	Lydia Garvey	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1267	Lyle Collins	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1268	Lyle Dougherty	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1269	Lynda Bagot-Parker	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1270	Lynda Rennick	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1271	Lyneane Lewis	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1272	Lynette Ridder	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1273	Lynn Fischer	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1274	Lynn Goldberg	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1275	Lynn R	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1276	Lynn Smith	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1277	Lynn Wilbur	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1278	Lynnne George	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1279	M Mcgillivary	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1280	Macyle Candela	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1281	Magda Balocco	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1282	Magoo Shoulderblade	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1283	Maja Lewicka	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1284	Malcolm Groome	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1285	Malene Zamora	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1286	Malin Jander	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1287	Marc Conrad	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1288	Marce Walsh	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1289	Marcel Schmitt	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1290	Marcina Motter	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1291	Marcy Arlin	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1292	Maree Penhart	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1293	Marga Terstal	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1294	Margaret Demott	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1295	Margaret Durham	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1296	Margaret Houlihan	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1297	Margaret Lohr	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1298	Margaret Silver	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1299	Margaret Vernon	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1300	Margherita Canessa	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1301	Margie Goulden	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	

Table 4. Sierra Club Scoping Comments From a Total of 2082 Individuals Responding With the Same Three Comments. This table categorizes scoping comments by EIS subject matter, which is where an individual comment would likely be addressed in the draft EIS

Comment #	Person /Agency	Date	Theme of Comment	NEPA Scoping Comment (may be paraphrased or summarized)	EIS Section Where Comment Could be Addressed				
					PN	ALT	AE	EC	CC
1302	Mari Doming	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1303	Mari Elvi	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1304	Maria Kalousi	5/7/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1305	Maria Mcglashan	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1306	Maria Schulz	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1307	Maria Soares	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1308	Marian Hussenbux	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1309	Marianne Crawford	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1310	Marianne Maetz	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1311	Marie Claire Deluna	5/7/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1312	Marie D'anna	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1313	Marie Dutto	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1314	Marie Young	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1315	Mariea Gill	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1316	Marie-Therese Frank	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1317	Marilyn Evenson	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1318	Marilyn Katz	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1319	Marilyn Logan	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1320	Marilyn Long	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1321	Marilynn Smith	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1322	Marina Buscarello	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1323	Marion Barnes	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1324	Marion Barry	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1325	Marion Forbes	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1326	Marion Forbes	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1327	Marion Kraus	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1328	Marisa Ware	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1329	Marjie Thornton	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1330	Marjorie Angelo	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1331	Marjorie Xavier	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1332	Marjorie Yambor	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1333	Mark Chudzik	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1334	Mark Damon	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1335	Mark E. Smith	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1336	Mark Hallett	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1337	Mark Hargraves	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1338	Mark Hill	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1339	Mark Hollinrake	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1340	Mark Muhich	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1341	Mark Wheeler	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1342	Mark Wirth	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	

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Comment #	Person /Agency	Date	Theme of Comment	NEPA Scoping Comment (may be paraphrased or summarized)	EIS Section Where Comment Could be Addressed				
					PN	ALT	AE	EC	CC
1343	Marlis Stoecker	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1344	Marsha Adams	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1345	Martha Buchan	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1346	Martha Carrington	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1347	Martha Chambers	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1348	Martha Izzo	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1349	Martha Lyons	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1350	Martha Lyons	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1351	Martha Utz	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1352	Martin Archer	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1353	Martin Lupowitz	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1354	Martina Grosse	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1355	Mary Ann Bayne	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1356	Mary Catherine Epatko	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1357	Mary Caydler	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1358	Mary Haley	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1359	Mary Hanley	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1360	Mary Jo Al-Tukhaim	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1361	Mary Lee	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1362	Mary Margaret Switlik	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1363	Mary Mcgee	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1364	Mary Mutch	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1365	Mary Nasse	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1366	Mary Ornee	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1367	Mary Rapp	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1368	Mary Rooker	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1369	Mary Saunders	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1370	Mary Walls	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1371	Mary Whitehead	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1372	Mary Wozniak	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1373	Maryann Gribac	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1374	Mary-Ann Sodrel	5/9/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1375	Maryanne Lowman	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1376	Maryellen Redish	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1377	Marylucia Arace	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1378	Massimiliano Pescador	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1379	Matt Brzezinski	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1380	Matt Chalfa	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1381	Matthew Drew	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1382	Matthew Franck	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1383	Matthew Tarpley	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	

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Comment #	Person /Agency	Date	Theme of Comment	NEPA Scoping Comment (may be paraphrased or summarized)	EIS Section Where Comment Could be Addressed				
					PN	ALT	AE	EC	CC
1384	Maud Van Tol	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1385	Maureen Burke	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1386	Maureen Knutsen	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1387	Maureen Porcelli	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1388	Maurice Costa	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1389	Maxine Jaffee	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1390	Maxine Stopfer	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1391	Megan Tenney	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1392	Meghan Frost	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1393	Melania Padilla	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1394	Melanie Gates	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1395	Melanie Picciotti	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1396	Melinda Armistead	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1397	Melinda Themm	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1398	Melissa Gaskill	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1399	Melissa Gaskins	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1400	Melissa Keith	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1401	Melissa Mctague	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1402	Melissa Polick	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1403	Melvin D. Cheitlin	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1404	Mercedes Lackey	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1405	Meredith Dressen	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1406	Merrill Dellas	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1407	Mervin Nethercoat	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1408	Meryle A. Korn	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1409	Meya Law	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1410	Mia Moss	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1411	Micha Koenig	5/7/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1412	Micha Koenig	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1413	Michael & Kathryn Kevany	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1414	Michael Balsai	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1415	Michael Bordenave	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1416	Michael Braude	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1417	Michael Chase	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1418	Michael Davenport	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1419	Michael Dorer	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1420	Michael French	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1421	Michael Gross	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1422	Michael Halloran	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1423	Michael Iltis	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1424	Michael Kirkby	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	

Table 4. Sierra Club Scoping Comments From a Total of 2082 Individuals Responding With the Same Three Comments. This table categorizes scoping comments by EIS subject matter, which is where an individual comment would likely be addressed in the draft EIS

Comment #	Person /Agency	Date	Theme of Comment	NEPA Scoping Comment (may be paraphrased or summarized)	EIS Section Where Comment Could be Addressed				
					PN	ALT	AE	EC	CC
1425	Michael Lee	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1426	Michael Lieberman	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1427	Michael Miller Jr	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1428	Michael Mitsuda	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1429	Michael Moynihan	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1430	Michael Olenjack	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1431	Michael Pattinson	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1432	Michael Routery	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1433	Michael White	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1434	Michaela Feldmann	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1435	Michaela Oldfield	5/9/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1436	Michele Coakley	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1437	Michele Halligan	5/7/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1438	Michele Ledesky	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1439	Michele Lockwood	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1440	Michele Lockwood	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1441	Michele Ozuna	5/7/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1442	Michele Rule	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1443	Michele Wittig	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1444	Michelle Carter	5/9/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1445	Michelle Friessen	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1446	Michelle Hayward	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1447	Michelle Hunsicker	5/7/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1448	Michelle Jacobsen	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1449	Michelle Mackenzie	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1450	Michelle Mehlhorn	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1451	Michelle Murphy	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1452	Michelle Palladine	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1453	Michelle Schramm	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1454	Michelle Sewald	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1455	Michelle Simeunovich	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1456	Midori Furutate	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1457	Mike Cass	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1458	Mike Nestor	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1459	Mikki Chalker	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1460	Miranda Leiva	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1461	Mireille Dumont	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1462	Mireille Urbain	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1463	Miriam Wesselink	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1464	Miss Crystal J Boles	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1465	Missy Utegirl	5/8/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	

Table 4. Sierra Club Scoping Comments From a Total of 2082 Individuals Responding With the Same Three Comments. This table categorizes scoping comments by EIS subject matter, which is where an individual comment would likely be addressed in the draft EIS

Comment #	Person /Agency	Date	Theme of Comment	NEPA Scoping Comment (may be paraphrased or summarized)	EIS Section Where Comment Could be Addressed				
					PN	ALT	AE	EC	CC
1466	Mitchell Field	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1467	Mitzi Frank	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1468	Molly Pickett-Harner	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1469	Mona Stephanie Benedetto	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1470	Monica Maes	5/9/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1471	Monika Huber	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1472	Monika Kiermasch	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1473	Monique Musialowski	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1474	Morgane Philippot	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1475	Mrs. P. D. Waterworth	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1476	Ms Adrian Siegel	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1477	Munch Sophia	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1478	Muriel L. Welch	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1479	Nadine Vergilia	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1480	Naila Sanchez	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1481	Nancy Beavers	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1482	Nancy Booth	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1483	Nancy Hines	5/7/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1484	Nancy Hines	5/7/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1485	Nancy Howard	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1486	Nancy Kay	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1487	Nancy L Young	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1488	Nancy Newton	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1489	Nancy Newton	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1490	Nancy Novak	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1491	Nancy Rosa	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1492	Nancy Smith	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1493	Nanette Oggiono	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1494	Nanita Samuels	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1495	Natalie A. Carter	5/8/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1496	Natalie Kovacs	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1497	Natalie Robello	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1498	Natalie Van Leekwijck	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1499	Natasha Prentice	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1500	Natasha Salgado	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1501	Natasha Salgado	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1502	Natassija Watson	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1503	Neena Mehra	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1504	Neil Stanton	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1505	Nicholas Lenchner	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1506	Nicholas Prychodko	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	

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Comment #	Person /Agency	Date	Theme of Comment	NEPA Scoping Comment (may be paraphrased or summarized)	EIS Section Where Comment Could be Addressed				
					PN	ALT	AE	EC	CC
1507	Nicholas St Clair	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1508	Nicholas Sully	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1509	Nick Mouzourakis	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1510	Nicola Nicolai	5/8/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1511	Nicolas Duvoisin	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1512	Nicole Schildcrout	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1513	Nicole Weber	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1514	Nicole Weber	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1515	Nicole Weber	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1516	Nicole Williams	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1517	Nina Clausen	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1518	Nina Foss	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1519	Nina Monasevitch	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1520	Nina Wouk	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1521	Nita Sembrowich	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1522	Nivo Roveedo	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1523	Noel Crim	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1524	Noel Orr	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1525	Noel Orr	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1526	Noella Santerre	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1527	Nora Davidoff	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1528	Norman Baker	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1529	Novella Adoue	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1530	Nuriya Bulatova	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1531	Nyack Clancy	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1532	O Lewis	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1533	O. Ruiz	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1534	Olga Batila	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1535	Oracio Casillas	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1536	Orva M Gullett	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1537	P Mar	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1538	P Scoville	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1539	P Scoville	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1540	P. Hays	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1541	P.S. Padula	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1542	Pablo Bobe	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1543	Paige Harrison	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1544	Pam Alterman	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1545	Pam Courts	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1546	Pam Mettier	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1547	Pam Patterson	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	

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Comment #	Person /Agency	Date	Theme of Comment	NEPA Scoping Comment (may be paraphrased or summarized)	EIS Section Where Comment Could be Addressed				
					PN	ALT	AE	EC	CC
1548	Pamela Check	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1549	Pamela Cooper	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1550	Pamela Evans	5/8/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1551	Pamela Evans	5/8/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1552	Pamela Green	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1553	Pamela Hamilton	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1554	Pamela Hamilton	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1555	Pamela Hatfield	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1556	Pamela Hatfield	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1557	Pamela Miller	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1558	Pamela Paskell	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1559	Pamela Raup-Kounovsky	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1560	Pamela Raup-Kounovsky	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1561	Pamela Robinson	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1562	Pamela Vouroscallahan	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1563	Paola Catapano	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1564	Pat Blackwell-Marchant	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1565	Pat Blevins	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1566	Pat Bray	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1567	Pat Dufau	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1568	Pat Redner	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1569	Pat Rose	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1570	Pat Thomas	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1571	Pati Jio	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1572	Pati Jio	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1573	Pati Jio	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1574	Patric Kearns	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1575	Patricia Bjorklund	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1576	Patricia Boud	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1577	Patricia Cachopo	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1578	Patricia Fleischer	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1579	Patricia Holbert	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1580	Patricia Madi	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1581	Patricia Packer	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1582	Patricia Pippin-Emanuel	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1583	Patricia Wilburn	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1584	Patti Fink	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1585	Patti Smith	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1586	Patti Weizel	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1587	Paul A. Trahan	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1588	Paul Belz	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	

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Comment #	Person /Agency	Date	Theme of Comment	NEPA Scoping Comment (may be paraphrased or summarized)	EIS Section Where Comment Could be Addressed				
					PN	ALT	AE	EC	CC
1589	Paul C Barry	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1590	Paul Cofrancesco	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1591	Paul Ghenoiu	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1592	Paul Johnson	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1593	Paul Owenson	5/8/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1594	Paul Runion	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1595	Paul Saint	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1596	Paul Strecker	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1597	Paul Sutton	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1598	Paula Morgan	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1599	Paula Myles	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1600	Paula Zerzan	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1601	Paulette Allison	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1602	Paulette Hill	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1603	Peggy Cavanaugh	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1604	Peggy Loe	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1605	Peggy Pierotti	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1606	Peggy Ranson	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1607	Penelope Mazza	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1608	Penny Olson	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1609	Pete Cox	5/8/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1610	Peter Collins	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1611	Peter Fugazzotto	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1612	Peter Gunther	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1613	Peter J. Keiser	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1614	Peter Mason	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1615	Peter Reed	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1616	Peter Solt	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1617	Peter Watson	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1618	Peter Watson	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1619	Peter Wright	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1620	Philip Kritzman	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1621	Philip Shook	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1622	Phillip Anderton	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1623	Phillip Hope	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1624	Phillip Mitchell	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1625	Phyllis Magal	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1626	Pia Martin	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1627	Pierre Schlemel	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1628	Piers Strailey	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1629	Pilar Quintana	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	

Table 4. Sierra Club Scoping Comments From a Total of 2082 Individuals Responding With the Same Three Comments. This table categorizes scoping comments by EIS subject matter, which is where an individual comment would likely be addressed in the draft EIS

Comment #	Person /Agency	Date	Theme of Comment	NEPA Scoping Comment (may be paraphrased or summarized)	EIS Section Where Comment Could be Addressed				
					PN	ALT	AE	EC	CC
1630	Polly Stonier	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1631	Porscha Hudson	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1632	Probyn Gregory	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1633	Purnima Barve	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1634	Quentin Fischer	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1635	R Vanstrien	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1636	R. Zierikzee	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1637	Rachel Gullett	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1638	Rachel Leigh	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1639	Rachel Pratt	5/9/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1640	Rachel Trolinder	5/7/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1641	Rachel Wells	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1642	Rae Pearson	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1643	Ragan Allen	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1644	Ragen Serra	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1645	Rahul Keshri	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1646	Raleigh Koritz	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1647	Ramon Trumbull	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1648	Ramona Lione	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1649	Randall Herz	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1650	Randall Woodbury	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1651	Randy Mcfarland	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1652	Rashid Patch	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1653	Raul Arribas	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1654	Ray Rodney	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1655	Ray Uriy	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1656	Rebecca Harper	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1657	Rebecca Jacobs	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1658	Rebecca Koo	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1659	Rebecca Mcdonough	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1660	Rebecca Skalsky	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1661	Rebecca Stockwell	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1662	Rechsteiner Valérie	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1663	Regan Ebert	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1664	Regine Schneider	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1665	Renae Mckeon	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1666	Renate Dr. Michelitsch	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1667	Renee De Camp	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1668	Renee Stein	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1669	Rex Lee	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1670	Rhea Damon	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	

Table 4. Sierra Club Scoping Comments From a Total of 2082 Individuals Responding With the Same Three Comments. This table categorizes scoping comments by EIS subject matter, which is where an individual comment would likely be addressed in the draft EIS

Comment #	Person /Agency	Date	Theme of Comment	NEPA Scoping Comment (may be paraphrased or summarized)	EIS Section Where Comment Could be Addressed				
					PN	ALT	AE	EC	CC
1671	Rhonda Bradley	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1672	Ricardo Sagardua	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1673	Richard Arthur	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1674	Richard Baker	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1675	Richard Bourne	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1676	Richard Glanville	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1677	Richard Harvey	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1678	Richard Heinlein	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1679	Richard Hieber	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1680	Richard Ordonez	5/7/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1681	Richard Puaoi	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1682	Richard Rothstein	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1683	Richard Spotts	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1684	Richard Strowd	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1685	Richard Waldo	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1686	Richard Wightman	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1687	Richie Mackie	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1688	Rick Knable	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1689	Rick Luttmann	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1690	Rick Pearson	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1691	Rick Shreve	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1692	Rickey Buttery	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1693	Ricki Newman	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1694	Riley Muise	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1695	Rita Lemkuil	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1696	Rita-Louisa Gerritsen	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1697	Rob Jursa	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1698	Rob Lozon	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1699	Rob Seltzer	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1700	Robert Badcock	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1701	Robert Blumenthal	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1702	Robert Brown	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1703	Robert Cobb	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1704	Robert Dowling	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1705	Robert Dowling	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1706	Robert Drop	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1707	Robert Drop	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1708	Robert Frank	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1709	Robert Fuchs	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1710	Robert Gabriel	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1711	Robert Gerosa	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	

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Comment #	Person /Agency	Date	Theme of Comment	NEPA Scoping Comment (may be paraphrased or summarized)	EIS Section Where Comment Could be Addressed				
					PN	ALT	AE	EC	CC
1712	Robert Herzog	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1713	Robert Keiser	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1714	Robert Kessler	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1715	Robert Long	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1716	Robert Love	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1717	Robert Mcartor`	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1718	Robert Prokopczyk	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1719	Robert Puca	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1720	Robert Sabin	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1721	Robert Sargent	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1722	Robert Schoonmaker	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1723	Robert Soto	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1724	Robert Wood	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1725	Roberta Campbell	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1726	Roberta Collins	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1727	Roberta Desalle	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1728	Robin Featherstone Arrow Heileman	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1729	Robin Peterson	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1730	Robin Reinhart	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1731	Robyn Barthel	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1732	Rodney Lewis	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1733	Rohana Wolf	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1734	Ron Mcgill	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1735	Ron Silver	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1736	Ron Weiss	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1737	Ronald Johnson	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1738	Ronald Kestler	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1739	Ronald Taliano	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1740	Ronnie Bolling	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1741	Rosalind Andrews	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1742	Roseann Trezza	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1743	Roselyne Jorge	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1744	Rosemary Bernier	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1745	Rosemary Graham-Gardner	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1746	Roslynn Budoff	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1747	Ross Miller	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1748	Roxanne Williams	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1749	Roy Fuller	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1750	Roy Richards	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1751	Rudy Zeller	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	

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Comment #	Person /Agency	Date	Theme of Comment	NEPA Scoping Comment (may be paraphrased or summarized)	EIS Section Where Comment Could be Addressed				
					PN	ALT	AE	EC	CC
1752	Russell Weisz	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1753	Russell Ziegler	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1754	Ruth Boice	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1755	Ruth Cooper	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1756	Ruth Karpel	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1757	Ruth Riordan	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1758	Ruth Siekevitz	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1759	Ryan Bradley	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1760	S. Chapek	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1761	S. Kohler	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1762	Sabdy Jimenez	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1763	Sabine G.	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1764	Sabine Sturm	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1765	Sally Oesterling	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1766	Salme Armijo	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1767	Samantha Burgie	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1768	Samantha Goodman	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1769	Sammy Low	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1770	Sandra Albo	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1771	Sandra Arapoudis	5/7/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1772	Sandra Boylston	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1773	Sandra Couch	5/7/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1774	Sandra Creswell	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1775	Sandra Delarosa	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1776	Sandra Ferri	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1777	Sandra Materi	5/7/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1778	Sandra Meyer	5/7/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1779	Sandra Quirnbach	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1780	Sandra Salisbury	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1781	Sandra Squaire	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1782	Sandra Woodall	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1783	Sandy Dalcais	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1784	Sandy Michael	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1785	Sandy Sanderson	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1786	Sanford Futterman	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1787	Sanja Dimitrijevic	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1788	Sara Connell	5/7/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1789	Sara Gann	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1790	Sara Mauri	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1791	Sara Paoluzzi	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1792	Sara Paoluzzi	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	

Table 4. Sierra Club Scoping Comments From a Total of 2082 Individuals Responding With the Same Three Comments. This table categorizes scoping comments by EIS subject matter, which is where an individual comment would likely be addressed in the draft EIS

Comment #	Person /Agency	Date	Theme of Comment	NEPA Scoping Comment (may be paraphrased or summarized)	EIS Section Where Comment Could be Addressed				
					PN	ALT	AE	EC	CC
1793	Sarah Hamilton	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1794	Sarah Springham	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1795	Sarah Wiebenson	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1796	Sarah Young	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1797	Scott Diamond	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1798	Scott Species	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1799	Scott Walker	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1800	Selma Oermeyer	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1801	Shahriar Hossain	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1802	Shakil Hamid	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1803	Shannon Catt	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1804	Shannon Hu	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1805	Shannon Thomas	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1806	Sharon Balzano	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1807	Sharon Cozzette	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1808	Sharon Davis	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1809	Sharon Frank	5/7/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1810	Sharon Holford	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1811	Sharon Kirk	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1812	Sharon Lacy	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1813	Sharon Morris	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1814	Sharon Mowery	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1815	Sharon Schmidt	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1816	Sharon Schmidt	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1817	Sharon Wojno	5/9/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1818	Shauna Sparlin	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1819	Shawna Blaker	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1820	Sheila D	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1821	Sheila Morgan	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1822	Sheila Morgan	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1823	Sheila Ward	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1824	Shelly Skoog-Smith	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1825	Sheri Randolph	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1826	Sherri Fryer	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1827	Sherrill Futrell	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1828	Sheryl Gillespie	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1829	Shinobu Fukushima	5/7/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1830	Shirlene Harris	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1831	Shirley Darby	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1832	Shirley Irwin	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1833	Shirley Irwin	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	

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Comment #	Person /Agency	Date	Theme of Comment	NEPA Scoping Comment (may be paraphrased or summarized)	EIS Section Where Comment Could be Addressed				
					PN	ALT	AE	EC	CC
1834	Shirley Schue	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1835	Shoshanah Mcknight	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1836	Sibyll Gilbert	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1837	Sibylle Schwarz	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1838	Sigrid Ebert	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1839	Silvana Borrelli	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1840	Silvia Roe	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1841	Simona Pizzigoni	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1842	Simone Moraes	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1843	Skot Mcdaniel	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1844	Snezana Trkulja	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1845	Sofie Løve Forsberg	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1846	Sonia Immasche	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1847	Sonia Romero Villanueva	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1848	Sophia Coleman	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1849	Staci Tefertiller	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1850	Stacie Charlebois	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1851	Stacie Wooley	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1852	Stacy Grossman	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1853	Stacy Patyk	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1854	Stacy Thompson	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1855	Stanley Charles	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1856	Stella Lerma	5/8/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1857	Steph Glasgow	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1858	Stephan Donovan	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1859	Stephanie Easton	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1860	Stephanie Goldbach	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1861	Stephanie Goldbach	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1862	Stephanie Goldbach	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1863	Stephanie Jones	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1864	Stephanie Kob	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1865	Stephanie Linam	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1866	Stephanie Roy	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1867	Stephen & Jacqueline Cutler	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1868	Stephen Bohac	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1869	Stephen Donnelly	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1870	Stephen Graff	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1871	Stephen Greene	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1872	Stephen Sommerville	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1873	Stephen Vannelli	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1874	Stephen Weissman	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	

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Comment #	Person /Agency	Date	Theme of Comment	NEPA Scoping Comment (may be paraphrased or summarized)	EIS Section Where Comment Could be Addressed				
					PN	ALT	AE	EC	CC
1875	Sterling & Loui Proffitt	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1876	Sterling & Loui Proffitt	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1877	Steve Aydelott	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1878	Steve Iverson	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1879	Steve Matthews	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1880	Steve Overton	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1881	Steve Sugarman	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1882	Steve Tyler	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1883	Steve Wanninger	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1884	Steven Kostis	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1885	Steven Rule	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1886	Steven Rule	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1887	Steven Urquhart	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1888	Sudeshna Ghosh	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1889	Sudeshna Ghosh	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1890	Sudeshna Ghosh	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1891	Sue Copeland	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1892	Sue Dunson-Reggio	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1893	Sue Dutch	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1894	Sue Velez	5/8/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1895	Susan Allen	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1896	Susan Barrons	5/7/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1897	Susan Dorchin	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1898	Susan Dunham	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1899	Susan Ellis	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1900	Susan Esposito	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1901	Susan Foley	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1902	Susan Goldberg	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1903	Susan Goldberg	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1904	Susan Hurwitz	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1905	Susan Ice	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1906	Susan King	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1907	Susan Krause	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1908	Susan Lofurno	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1909	Susan Longosky	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1910	Susan Mcmillan	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1911	Susan Mcpherson	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1912	Susan Messerschmitt	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1913	Susan Ostlie	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1914	Susan Parrish	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1915	Susan Plubell	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	

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					PN	ALT	AE	EC	CC
1916	Susan Porter	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1917	Susan Ross	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1918	Susan Rubin	5/7/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1919	Susan Sebanc	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1920	Susan Severino	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1921	Susan Smith	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1922	Susan Summers	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1923	Susan Thing	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1924	Susan Watts	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1925	Susan Wayne	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1926	Susan Wesley	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1927	Susan White	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1928	Susannah Gelbart	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1929	Suzanne Barns	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1930	Suzanne Kirby	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1931	Suzanne Narducy	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1932	Suzanne Smither	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1933	Suzi Jolicoeur	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1934	Sydney Farr	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1935	Sylvia Cooper	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1936	Sylvia Cooper	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1937	T Cho	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1938	T J Fox	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1939	T. O'neill	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1940	T.M. Brooks	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1941	Tabitha Tracey	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1942	Tahoe Leigh	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1943	Tal Kinnersly	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1944	Talila Stan	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1945	Tam Fenske	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1946	Tamar Carson	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1947	Tami Palacky	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1948	Tammy Desanchez	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1949	Tammy Glaze	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1950	Tammy Swoboda	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1951	Tammy Weatherly	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1952	Tanja Rieger	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1953	Tanja Schacht	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1954	Tanya Haynes	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1955	Tanya Kern	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1956	Tara Combs	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	

Table 4. Sierra Club Scoping Comments From a Total of 2082 Individuals Responding With the Same Three Comments. This table categorizes scoping comments by EIS subject matter, which is where an individual comment would likely be addressed in the draft EIS

Comment #	Person /Agency	Date	Theme of Comment	NEPA Scoping Comment (may be paraphrased or summarized)	EIS Section Where Comment Could be Addressed				
					PN	ALT	AE	EC	CC
1957	Tara Larkin	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1958	Tatiana Druffel	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1959	Tatiana Lazareva	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1960	Tatyana Bobok	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1961	Tayira Mora Black	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1962	Ted Atkins	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1963	Ted Von Eiff	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1964	Teresa Hutchison	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1965	Teresa Sullivan	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1966	Teresa Torralva	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1967	Teresa Wlosowicz	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1968	Terrie Williams	5/8/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1969	Terry Elliott	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1970	Terry Tedesco-Kerrick	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1971	Tess Dunlap	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1972	The U. Family	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1973	The U. Family	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1974	Theodore King	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1975	Theodore Marszalek	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1976	Theresa Perenich	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1977	Theresa Yee	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1978	Thom Peters	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1979	Thomas Brenner	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1980	Thomas Dorsey	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1981	Thomas Hoover	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1982	Thomas Lincoln	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1983	Thomas Ross	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1984	Thomas Schweickart	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1985	Thomas Smidth	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1986	Tiffany Buell	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1987	Tiffany Howard	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1988	Tiffany Snyder	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1989	Tiffany Witmer	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1990	Tim Baxter	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1991	Timothy Dunn	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1992	Timothy Hainley	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1993	Timothy Martin	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1994	Timothy Mullen	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1995	Tina Brenza	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1996	Tina Florell	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1997	Tina Horowitz	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	

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Comment #	Person /Agency	Date	Theme of Comment	NEPA Scoping Comment (may be paraphrased or summarized)	EIS Section Where Comment Could be Addressed				
					PN	ALT	AE	EC	CC
1998	Tina Tine'	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
1999	Tod Luethans	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
2000	Todd Gross	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
2001	Tom Falvey	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
2002	Tom Harris	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
2003	Tom Sharkey	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
2004	Tom Sloan	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
2005	Toni Caldwell Clark	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
2006	Toni Hamilton	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
2007	Toni Siegrist	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
2008	Toni Wissenback	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
2009	Tony Buch	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
2010	Tony Menechella	5/9/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
2011	Tonya Kay	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
2012	Tracey Aquino	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
2013	Tracey Bonner	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
2014	Tracey Katsouros	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
2015	Tracey Mangus	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
2016	Traci Scott	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
2017	Tracie Gabrisko	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
2018	Tracy Callow	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
2019	Tracy Ouellette	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
2020	Tricia Hamilton	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
2021	Twyla Meyer	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
2022	Tyler Harrington	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
2023	Uta Cortimilia	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
2024	Val Laurent	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
2025	Valerie Baugher	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
2026	Valerie Brown	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
2027	Valerie Clark	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
2028	Valerie Hildebrand	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
2029	Valérie Medori	5/7/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
2030	Valerie Molof	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
2031	Vance Arquilla	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
2032	Vera Brown	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
2033	Verena Ketola	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
2034	Veronica Berntsson	5/8/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
2035	Veronica Cota	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
2036	Vicki Ferguson	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
2037	Vicki Ginoli	5/9/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
2038	Vicki Johnson	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	

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Comment #	Person /Agency	Date	Theme of Comment	NEPA Scoping Comment (may be paraphrased or summarized)	EIS Section Where Comment Could be Addressed				
					PN	ALT	AE	EC	CC
2039	Vickie Brown	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
2040	Vickie Mcalister	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
2041	Vickie Openshaw	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
2042	Vicky Moraiti	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
2043	Victor Carmichael	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
2044	Victoria Cypherd	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
2045	Victoria Miller	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
2046	Virginia Bennett	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
2047	Virginia Bennett	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
2048	Virginia Green	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
2049	Virginia Rice-Coughlan	5/8/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
2050	Vitor Pacheco	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
2051	Vitor Pacheco	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
2052	Viv Cecil	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
2053	Vivian Newman	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
2054	W Andrew Stover	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
2055	Wade And Betty Matthews	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
2056	Walker Everette	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
2057	Walt Brown	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
2058	Walter Erhorn	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
2059	Walter Kuciej	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
2060	Walter Tulys	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
2061	Waltraud Kraus	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
2062	Wanda Louise	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
2063	Wendy Fears	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
2064	Wendy Fears	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
2065	Wendy Forster	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
2066	Wendy Weldon	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
2067	Wg Miller	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
2068	Whitney Watters	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
2069	Willa Klein	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
2070	William Barmettler	5/7/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
2071	William Buss	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
2072	William J Bolen	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
2073	William Meade	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
2074	William Obrien	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
2075	William Parr	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
2076	William Stewart	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
2077	Willie Hinze	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
2078	Willis Gravelle	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
2079	Yazmin Gonzalez	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	

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Comment #	Person /Agency	Date	Theme of Comment	NEPA Scoping Comment (may be paraphrased or summarized)	EIS Section Where Comment Could be Addressed				
					PN	ALT	AE	EC	CC
2080	Yolanda Clay	5/6/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
2081	Zachary Rosenfeld	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
2082	Zita Fox	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
2083	Zita Fox	5/4/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
2084	Zsanine Alexander	5/5/2016	Same 5 themes as A. Puza	Includes same 5 comments as A. Puza		2	3	4	
				Totals	**0**	**4164**	**6246**	**8328**	**0**

Table 5. Sierra Club Scoping Comments. This table categorizes scoping comments by EIS subject matter, which is where an individual comment would likely be addressed in the draft EIS.

Comment #	Person /Agency	Date	Theme of Comment	NEPA Scoping Comment (may be paraphrased or summarized)	EIS Section Where Comment Could be Addressed				
					PN	ALT	AE	EC	CC
1	Aimee Polekoff	5/8/2016	address impacts from development and growth	The study must address the impact from development and population growth that occurs in the storm surge areas along the Texas coast and may result in habitat destruction.		1	1	1	
2			significant natural resources that could be negatively impacted	Significant natural resources that could be negatively impacted by a coastal barrier protection system include: bottomland hardwood forested wetlands, Galveston Bay, oyster reefs, seagrass beds, salt, brackish, and freshwater marshes, tidal flats, San Luis Pass, Bolivar Peninsula, West Galveston Island, Follets Island, national wildlife refuges, state parks, fish passes, endangered/threatened bird habitat, and sea turtle nesting beaches.			1	1	
3			nonstructural alternatives/low impacts	Changes to our natural resources should focus on non-structural solutions or physical solutions that are adapted to specific areas and have low environmental impacts.		1		1	
4			protect coast, disclose full study of impacts	Solutions must protect the coastal environment, and a full study and analysis of the biological effects of construction of any man-made coastal barrier system must be determined, and alternative ways to solve the problem must be considered.		1		1	
5			nature based solutions; access to outdoor recreation; conservation of ecosystems	Alternatives should include a nature-based solution that improves access to outdoor recreation and conservation of Texas' diverse coastal ecosystems. An example is mangrove tree buffers or other native coastal plant communities.		1	1	1	
6	Bryony Angell	5/4/2016	biodiversity and mitigation	I'm a concerned citizen writing from WA state, where we face and respond to similar coastal rehabilitation and wildlife conservation. Your coast hosts distinct biodiversity from my own state, and all biodiversity must be considered when implementing coastal projects. Mitigation affecting future survival of native plants and wildlife is serious business and will have lasting impact to biodiversity if not taken into the account of the project. I urge you to prioritize the health and conservation of your native plant and animal species in the planning for these projects.		1	1	1	
7			same themes as Aimee Polekoff	Almost verbatim comments as Aimee Polekoff		4	3	5	
8	C King	5/5/2016	same themes as Aimee Polekoff	Almost verbatim comments as Aimee Polekoff		4	3	5	
9	Carmen Sanchez Sadek	5/4/2016	address impacts from development and growth	The study --por lo menos-- must address the impact from development and population growth that occurs in the storm surge areas along the Texas coast and may result in habitat destruction.		1	1	1	
10			significant natural resources potentially impacted	Significant natural resources that could be negatively impacted by a coastal barrier protection system include: bottomland hardwood forested wetlands, Galveston Bay, oyster reefs, seagrass beds, salt,			1	1	

Table 5. Sierra Club Scoping Comments. This table categorizes scoping comments by EIS subject matter, which is where an individual comment would likely be addressed in the draft EIS.

Comment #	Person /Agency	Date	Theme of Comment	NEPA Scoping Comment (may be paraphrased or summarized)	EIS Section Where Comment Could be Addressed				
					PN	ALT	AE	EC	CC
				brackish, and freshwater marshes, tidal flats, San Luis Pass, Bolivar Peninsula, West Galveston Island, Follets Island, national wildlife refuges, state parks, fish passes, endangered/threatened bird habitat, and sea turtle nesting beaches. ¡¡¡NO, POR FAVOR!!!					
11			nonstructural alternatives/low impacts	Changes to our natural resources should focus on non-structural solutions or physical solutions --¡¡¡MUY IMPORTANTE!!!—that are adapted to specific areas and have low environmental impacts.		1		1	
12			nature based alternatives to protect coast, disclose full study of impacts	Solutions must protect the coastal environment--POR LO MENOS--, and a full study and analysis of the biological effects of construction of any man-made coastal barrier system must be determined--SUPER IMPORTANTE--, and alternative ways to solve the problem must be considered--ESENCIAL. Alternatives should include a nature-based solution that improves access to outdoor recreation and conservation of Texas' diverse coastal ecosystems ¡¡¡MUY IMPORTANTE!!!.		1		1	
13	Cenie Cafarelli	5/5/2016	self modifying natural ecosystems	Natural ecosystems, with encouragement, can be self modifying and improve their protection of the seashore, some thing that concrete and other man made structures cannot do.			1		
14			address impacts from development and growth	The study must address the impact from development and population growth that occurs in the storm surge areas along the Texas coast and may result in habitat destruction.		1	1	1	
15			significant natural resources potentially impacted	Significant natural resources that could be negatively impacted by a coastal barrier protection system include: bottomland hardwood forested wetlands, Galveston Bay, oyster reefs, seagrass beds, salt, brackish, and freshwater marshes, tidal flats, San Luis Pass, Bolivar Peninsula, West Galveston Island, Follets Island, national wildlife refuges, state parks, fish passes, endangered/threatened bird habitat, and sea turtle nesting beaches.			1	1	
16			nonstructural alternatives/low impacts	Changes to our natural resources should focus on non-structural solutions or physical solutions that are adapted to specific areas and have low environmental impacts.		1		1	
17			nature based alternatives to protect coast, disclose full study of impacts	Solutions must protect the coastal environment, and a full study and analysis of the biological effects of construction of any man-made coastal barrier system must be determined, and alternative ways to solve the problem must be considered. Alternatives should include a nature-based solution that improves access to outdoor recreation and conservation of Texas' diverse coastal ecosystems.		1		1	
18	Chris Lish	5/9/2016	address impacts from development and growth	The Draft Integrated Feasibility Report and Environmental Impact Statement for the Coastal Texas Protection and Restoration Feasibility Study must address the impact from development and population growth that occurs in the storm surge areas along the Texas coast and may result in habitat destruction.		1	1	1	

Table 5. Sierra Club Scoping Comments. This table categorizes scoping comments by EIS subject matter, which is where an individual comment would likely be addressed in the draft EIS.

Comment #	Person /Agency	Date	Theme of Comment	NEPA Scoping Comment (may be paraphrased or summarized)	EIS Section Where Comment Could be Addressed				
					PN	ALT	AE	EC	CC
19			conservation of natural resources	"Our duty to the whole, including to the unborn generations, bids us to restrain an unprincipled present-day minority from wasting the heritage of these unborn generations. The movement for the conservation of wildlife and the larger movement for the conservation of all our natural resources are essentially democratic in spirit, purpose and method."-- Theodore Roosevelt			1	1	
20			significant natural resources potentially impacted	Significant natural resources that could be negatively impacted by a coastal barrier protection system include: bottomland hardwood forested wetlands, Galveston Bay, oyster reefs, seagrass beds, salt, brackish, and freshwater marshes, tidal flats, San Luis Pass, Bolivar Peninsula, West Galveston Island, Follets Island, national wildlife refuges, state parks, fish passes, endangered/threatened bird habitat, and sea turtle nesting beaches.			1	1	
21			preserve material resources	"Every man who appreciates the majesty and beauty of the wilderness and of wild life, should strike hands with the farsighted men who wish to preserve our material resources, in the effort to keep our forests and our game beasts, game-birds, and game-fish—indeed, all the living creatures of prairie and woodland and seashore—from wanton destruction. Above all, we should realize that the effort toward this end is essentially a democratic movement."-- Theodore Roosevelt			1	1	
22			nonstructural alternatives/low impacts	Changes to our natural resources should focus on non-structural solutions or physical solutions that are adapted to specific areas and have low environmental impacts. Solutions must protect the coastal environment, and a full study and analysis of the biological effects of construction of any man-made coastal barrier system must be determined, and alternative ways to solve the problem must be considered. Alternatives should include a nature-based solution that improves access to outdoor recreation and conservation of Texas' diverse coastal ecosystems.		1		1	
23			preserve biotic community	"A thing is right when it tends to preserve the integrity, stability, and beauty of the biotic community. It is wrong when it tends otherwise." -- Aldo Leopold			1	1	
24			do not add name to mailing list	Thank you for your consideration of my comments. Please do NOT add my name to your mailing list. I will learn about future developments on this issue from other sources.					1
25	Christi Hughes	5/5/2016	address impacts from development and growth	The study must address the impact from poorly regulated development and population growth that occurs in storm surge areas along the Texas coast and may result in habitat destruction and loss of human life.		1	1	1	
26			significant natural resources potentially impacted	Significant natural resources that could be negatively impacted by a coastal barrier protection system include: bottomland hardwood forested wetlands, Galveston Bay, oyster reefs, seagrass beds, salt,			1	1	

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				brackish, and freshwater marshes, tidal flats, San Luis Pass, Bolivar Peninsula, West Galveston Island, Follets Island, national wildlife refuges, state parks, fish passes, endangered/threatened bird habitat, and sea turtle nesting beaches.					
27			nonstructural alternatives/low impacts	Changes to our natural resources should focus on non-structural solutions or physical solutions that are adapted to specific areas and have low environmental impacts.		1		1	
28			protect coastal environment and provide full analysis of effects	Solutions must protect the coastal environment, and a full study and analysis of the biological effects of construction of any man-made coastal barrier system must be determined, and alternative ways to solve the problem must be considered. Alternatives should include a nature-based solution that improves access to outdoor recreation and conservation of Texas' diverse coastal ecosystems.		1	1	1	
29			long-term, innovative, cost-effective, functional solutions	Proper long-term solutions will concurrently protect our important natural heritage while improving the safety and economic value of our lands. Please do not continue to utilize archaic solutions (like seawalls) that we already know result in more problems long-term than they solve. Seek out innovative, cost-effective, functional solutions that benefit both our communities and the existing natural resources inherently beneficial to each and every one of us.		1		1	
30	Christopher Hamilton	5/4/2016	consider science	Any project to protect the Texas coast from hurricane and storm surges has to take account of science, not just engineering.	1	1			1
31			effects on animal life	Public agencies like yours must consider the effects of their projects on animal life.		1		1	
32			address impacts from development and growth	The study must address the impact from development and population growth that occurs in the storm surge areas along the Texas coast and may result in habitat destruction.		1	1	1	
33			significant natural resources potentially impacted	Significant natural resources that could be negatively impacted by a coastal barrier protection system include: bottomland hardwood forested wetlands, Galveston Bay, oyster reefs, seagrass beds, salt, brackish, and freshwater marshes, tidal flats, San Luis Pass, Bolivar Peninsula, West Galveston Island, Follets Island, national wildlife refuges, state parks, fish passes, endangered/threatened bird habitat, and sea turtle nesting beaches.			1	1	
34			nonstructural alternatives/low impacts	Changes to our natural resources should focus on non-structural solutions or physical solutions that are adapted to specific areas and have low environmental impacts.		1		1	
35			nature based alternatives to protect coast, disclose full study of impacts	Solutions must protect the coastal environment, and a full study and analysis of the biological effects of construction of any man-made coastal barrier system must be determined, and alternative ways to solve the problem must be considered. Alternatives should include a nature-based solution that improves access to		1		1	

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				outdoor recreation and conservation of Texas' diverse coastal ecosystems.					
36	Claire Lawrence	5/4/2016	same themes as Aimee Polekoff	Almost verbatim comments as Aimee Polekoff: 1) address impacts from development and growth; 2) significant natural resources potentially impacted; 3) nonstructural alternatives with low impacts; 4) nature based alternatives to protect coast, disclose full study of impacts		4	3	5	
37			consider impacts of sea wall barrier	PLEASE TRULY CONSIDER THE ENTIRE ENVIRONMENTAL IMPACT ADDING A SEA WALLBARRIER WOULD CAUSE???!!! THANK YOU !		1		1	
38	Debra Barringer	5/5/2016	address impacts from development and growth	The study must address the impact from development and population growth that occurs in the storm surge areas along the Texas coast that has already and will continue to cause habitat destruction.		1	1	1	
39			natural habitats	Natural habitat is what protects coastlines and the development behind it.		1	1		
40			significant resources that could be negatively impacted	Significant natural resources that could be negatively impacted by a coastal barrier protection system include: bottomland hardwood forested wetlands, Galveston Bay, oyster reefs, seagrass beds, salt, brackish, and freshwater marshes, tidal flats, San Luis Pass, Bolivar Peninsula, West Galveston Island, Follets Island, national wildlife refuges, state parks, fish passes, endangered/threatened bird habitat, and endangered sea turtle nesting beaches.			1	1	
41			shoreline retreat	In Ventura, CA they realized that a bike path and parking lot were being damaged by high tides because they were located too close to the ocean. Cooperating agencies completed a shoreline retreat to increase duneland habitat and move hardscape facilities back to accommodate higher storm surges. Adding riprap, rock, walls, etc. were only making things worse.		1			
42			nonstructural alternatives/low impacts	Non-structural solutions that are adapted to specific areas and have low environmental impacts are the only acceptable methods for coastal protection.		1		1	
43			sea level rise	The latest sea level rise prediction maps must be used to realistically project how the coast will change, to keep new development away, and where possible, move existing development inland.		1	1	1	
44			nature based alternatives to protect coast, disclose full study of impacts	Solutions must protect the coastal environment - the natural barrier to high seas, and a full study and analysis of the biological effects of construction of any man-made coastal barrier system must be determined, and alternative ways to solve the problem must be considered. Alternatives should include a nature-based solution that improves access to outdoor recreation and conservation of Texas' diverse coastal ecosystems.		1		1	

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45	Diane Harper	5/4/2016	same themes as Aimee Polekoff	Almost verbatim comments as Aimee Polekoff		4	3	5	
46	Elizabeth and Terrence Mccloskey	5/4/2016	address impacts from development and growth	The study must address the impact from development and population growth that could occur in the storm surge areas along the Texas coast and may result in habitat destruction.		1		1	
47			significant natural resources that could be negatively impacted	Significant natural resources that could be negatively impacted by a coastal barrier protection system include: bottomland hardwood forested wetlands, Galveston Bay, oyster reefs, seagrass beds, salt, brackish, and freshwater marshes, tidal flats, San Luis Pass, Bolivar Peninsula, West Galveston Island, Follets Island, national wildlife refuges, state parks, fish passes, endangered/threatened bird habitat, and sea turtle nesting beaches.			1		
48			migratory bird habitat	Habitat that migratory birds need after flying across the Gulf of Mexico during spring migation, or before flying south in the fall migration, may also be adversely affected.			1		
49			nonstructural alternatives/low impacts	The project should focus on non-structural solutions or physical solutions that are adapted to specific areas that have low environmental impacts.		1		1	
50			protect the coast	The proposed solutions must protect the coastal environment.		1	1	1	
51			analysis of biological effects of man-made barrier system	A full study and analysis of the biological effects of construction of any man-made coastal barrier system must be undertaken, and alternative ways to solve the problem must be considered.		1	1	1	
52			nature based alternatives improve access to outdoor recreaton and diverse coastal ecosystems	Alternatives must include nature-based solutions that improve access to outdoor recreation and the conservation of Texas' diverse coastal ecosystems, such as wetland and coastal island restoration.		1	1	1	
53	Elizabeth Bartlett	5/5/2016	choices of people versus wildlife	People have choices of where to live and raise their children. Turtles and other wildlife that relies on beach environments have none.			1		
54			human development	Increased human development should not be encouraged where it will endanger other species.		1	1	1	
55			address impacts from development and growth	The study must address the impact from development and population growth that occurs in the storm surge areas along the Texas coast and may result in habitat destruction.		1	1	1	
56			significant resources that could be negatively impacted	Significant natural resources that could be negatively impacted by a coastal barrier protection system include: bottomland hardwood forested wetlands, Galveston Bay, oyster reefs, seagrass beds, salt, brackish, and freshwater marshes, tidal flats, San Luis Pass, Bolivar Peninsula, West Galveston Island, Follets Island, national wildlife refuges, state parks, fish passes, endangered/threatened bird habitat, and sea turtle nesting beaches.			1	1	
57			nonstructural alternatives/low impacts	Changes to our natural resources should focus on non-structural solutions or physical solutions that are adapted to specific areas and have low environmental impacts.		1		1	

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58			nature based alternatives to protect coast, disclose full study of impacts	Solutions must protect the coastal environment, and a full study and analysis of the biological effects of construction of any man-made coastal barrier system must be determined, and alternative ways to solve the problem must be considered. Alternatives should include a nature-based solution that improves access to outdoor recreation and conservation of Texas' diverse coastal ecosystems.		1		1	
59	Elizabeth Dahl	5/4/2016	save endangered turtles	Please help save endangered turtles.			1	1	
60			address impacts from development and growth	The study must address the impact from development and population growth that occurs in the storm surge areas along the Texas coast and may result in habitat destruction.		1	1	1	
61			significant natural resources that could be negatively impacted	Significant natural resources that could be negatively impacted by a coastal barrier protection system include: bottomland hardwood forested wetlands, Galveston Bay, oyster reefs, seagrass beds, salt, brackish, and freshwater marshes, tidal flats, San Luis Pass, Bolivar Peninsula, West Galveston Island, Follets Island, national wildlife refuges, state parks, fish passes, endangered/threatened bird habitat, and sea turtle nesting beaches.			1	1	
62			nonstructural alternatives/low impacts	Changes to our natural resources should focus on non-structural solutions or physical solutions that are adapted to specific areas and have low environmental impacts.		1		1	
63			nature based alternatives improve access to outdoor recreaton and diverse coastal ecosystems	Solutions must protect the coastal environment, and a full study and analysis of the biological effects of construction of any man-made coastal barrier system must be determined, and alternative ways to solve the problem must be considered. Alternatives should include a nature-based solution that improves access to outdoor recreation and conservation of Texas' diverse coastal ecosystems.		1		1	
64	Gayle Janzen	5/4/2016	science based solutions to address impacts from development and growth; protect the environment	While your study needs to address many impacts due to development and population growth that are occurring in the storm surge areas along the Texas coast, I believe your proposed solutions will only create more problems for the environment. The solutions need to be based on science and long-term studies, then there will not be as much destruction to the area in future storms. Protecting the environment in these areas is the answer because as it is swallowed up by development and the wrong man-made "solutions", the problems will continue unabated.		1	1	1	
65			significant resourcs that could be negatively impacted	There are just too many natural resources that could be negatively impacted by your proposed coastal barrier protection system. These include: bottomland hardwood forested wetlands, Galveston Bay, oyster reefs, seagrass beds, salt, brackish, and freshwater marshes, tidal flats, San Luis Pass, Bolivar Peninsula, West Galveston Island, Follets Island, national wildlife refuges,			1	1	

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				state parks, fish passes, endangered/threatened bird habitat, and sea turtle nesting beaches.					
66			sea turtles nesting beaches destroyed by sea walls/gates	The sea turtles are already highly endangered, so destroying their nesting beaches with sea walls, gates and levees will only push them closer to extinction.		1	1	1	
67			mother nature built in hurricane deterrents	Mother Nature created this area with marshes and tidelands which used to keep the hurricanes from doing so much damage, yet humans have overdeveloped the area which destroys Mother Nature's built-in hurricane deterrents. We think we know better than Mother Nature, but we don't and we tend to make things much worse.			1		
68			nonstructural alternatives/low impacts	Therefore, any changes to our natural resources should primarily focus on non-structural solutions or natural solutions that are adapted to specific areas and have very low environmental impacts. Sometimes less is more!		1	1	1	
69			nature based alternatives to protect coast, disclose full study of impacts	It's essential the solutions protect the coastal environment, and a full study and analysis of the biological effects of construction of any man-made coastal barrier system need to be determined, and alternative ways to solve the problem must be considered. If you study the landscape and adhere to the natural outlay of the land by repairing the marshes with grasses and trees and protecting the beaches, you will spend less money in man-made "solutions" that always fail in the end anyway. Sea walls, gates and levees will wreak havoc on this already fragile area. Any alternative should include a nature-based solution that improves access to outdoor recreation and conservation of Texas' diverse coastal ecosystems.		1	1	1	
70	Grace Holden	5/4/2016	same themes as Aimee Polekoff	Almost verbatim comments as Aimee Polekoff		3	2	3	
71			importance of protecting habitats and diversity	Thank you for considering my thoughts on this issue that is very important to me and so many others who care deeply about protecting wildlife habitats and the wonderful diversity of wildlife they support.		1	1	1	
72	Heather Little	5/4/2016	habitat destruction and address impacts from development and growth	I have just learned about the engineering projects being planned for the Texas coast and as concerned. These projects may result in habitat destruction, therefore the study must address the impact from development and population growth that occurs in the storm surge areas that will be effected by these projects.		1	1	1	
73			significant natural resources that could be negatively impacted	Significant natural resources that could be negatively impacted by a coastal barrier protection system include: bottomland hardwood forested wetlands, Galveston Bay, oyster reefs, seagrass beds, salt, brackish, and freshwater marshes, tidal flats, San Luis Pass, Bolivar Peninsula, West Galveston Island, Follets Island, national wildlife refuges, state parks, fish passes, endangered/threatened bird habitat, and sea turtle nesting beaches.			1	1	

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74			nonstructural alternatives/low impacts	Changes to natural resources should focus on non-structural solutions or physical solutions that are adapted to specific areas and have low environmental impacts.		1		1	
75			nature based alternatives improve access to outdoor recreaton and diverse coastal ecosystems	Solutions must protect the coastal environment, and a full study and analysis of the biological effects of construction of any man-made coastal barrier system must be determined, and alternative ways to solve the problem must be considered. Alternatives should include a nature-based solution that improves access to outdoor recreation and conservation of Texas' diverse coastal ecosystems.		1		1	
76	Heidi Garbe	5/5/2016	wildlife and human well being	Without our wildlife, our own well being is at stake.			1		
77			address impacts from development and growth	The study must address the impact from development and population growth that occurs in the storm surge areas along the Texas coast and may result in habitat destruction.		1	1	1	
78			significant natural resources that could be negatively impacted	Significant natural resources that could be negatively impacted by a coastal barrier protection system include: bottomland hardwood forested wetlands, Galveston Bay, oyster reefs, seagrass beds, salt, brackish, and freshwater marshes, tidal flats, San Luis Pass, Bolivar Peninsula, West Galveston Island, Follets Island, national wildlife refuges, state parks, fish passes, endangered/threatened bird habitat, and sea turtle nesting beaches.		1	1	1	
79			nonstructural alternatives/low impacts	Changes to our natural resources should focus on non-structural solutions or physical solutions that are adapted to specific areas and have low environmental impacts.		1		1	
80			nature based alternatives improve access to outdoor recreaton and diverse coastal ecosystems	Solutions must protect the coastal environment, and a full study and analysis of the biological effects of construction of any man-made coastal barrier system must be determined, and alternative ways to solve the problem must be considered. Alternatives should include a nature-based solution that improves access to outdoor recreation and conservation of Texas' diverse coastal ecosystems.		1	1	1	
81	Helene Lisy	5/5/2016	address impacts from development and growth	The study must address the impact from development and population growth that occurs in the storm surge areas along the Texas coast and may result in habitat destruction.		1	1	1	
82			significant natural resources that could be negatively impacted	Significant natural resources that could be negatively impacted by a coastal barrier protection system include: bottomland hardwood forested wetlands, Galveston Bay, oyster reefs, seagrass beds, salt, brackish, and freshwater marshes, tidal flats, San Luis Pass, Bolivar Peninsula, West Galveston Island, Follets Island, national wildlife refuges, state parks, fish passes, endangered/threatened bird habitat, and sea turtle nesting beaches.			1	1	

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83			nonstructural alternatives/low impacts	Changes to our natural resources should focus on non-structural solutions or physical solutions that are adapted to specific areas and have low environmental impacts.		1		1	
84			protect the coast; full analysis of biological effects	Solutions must protect the coastal environment, and a full study and analysis of the biological effects of construction of any man-made coastal barrier system must be determined, and alternative ways to solve the problem must be considered.		1	1	1	
85			nature based solutions; access to outdoor recreation; conservation of ecosystems	Alternatives should include a nature-based solution that improves access to outdoor recreation and conservation of Texas' diverse coastal ecosystems.		1	1	1	
86			protect wetlands to protect coast	Our wetlands are the natural sponges in the system and we must employ them to protect our coasts.		1	1	1	
87			sea level rise; let wetlands move inland naturally	Sea rise is happening and we must protect the coasts naturally. Let these wetlands and barrier islands move inland naturally so that our future and the future of animals and plants are guaranteed. Thank you for making decisions based on natural science suited for the 21st century.		1	1	1	
88	Jackie Shea	5/5/2016	same themes as Aimee Polekoff	Almost verbatim comments as Aimee Polekoff		4	3	5	
89			damaging impact of seawalls, gates and levees	As a lover of coastal areas, I hope that you will seriously consider the potential for the damaging impact that seawalls, gates and levees will have on the coast, and it's natural inhabitants, not just the human population. We are all part of the planet, and must live together.		1	1	1	
90	James K Hadcroft	5/5/2016	same themes as Aimee Polekoff	Almost verbatim comments as Aimee Polekoff		4	3	5	
91			democracy; national socialistic philosophy	I am a Veteran, Active Voter and TaxPayer. As a Veteran I put my life on the line for Democracy. This missive is Democracy in action. Please help stop the plutocratic take over and save American Democracy and the middle class. It is my sad observation that national socialist philosophy now informs and drives the republican party.			1		
92	James Klein	5/4/2016	same themes as Aimee Polekoff	Almost verbatim comments as Aimee Polekoff		4	3	5	
93			real estate; money; corruption; political system; US Constitution.	This remains a vexing problem primarily due to the real estate industry's ability to curry favor with elected officials. The corrupting influence of money in our political system is undermining our democratic traditions and discouraging Americans from voting and/or running for office. This ominous development may well end our experiment in representative democracy unless we alter this decades-long trend. For the sake of the republic, we must amend the US Constitution to state that corporations are not people (and do not have constitutional rights) and money is not speech (and thus can be regulated by state			1		

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				and/or federal campaign finance laws). Short of accomplishing this, no other reform of significance will be achieved. The moneyed interests will turn any reform to their benefit, often at the expense of the nation as a whole.					
94	Janet Davis	5/4/2016	same themes as Aimee Polekoff	Almost verbatim comments as Aimee Polekoff		4	3	5	
95			preserve and protect indigenous species	Many of us in the U.S. feel it is of the utmost importance to preserve and protect indigenous species of all types both in and out of the waters. Please make this an important consideration in your decisions. Thank you.			1		
96	Janet Fletcher	5/4/2016	same themes as Aimee Polekoff	Almost verbatim comments as Aimee Polekoff		4	3	5	
97			please listen to mails	Can you please pay attention to these mails, nobody every does and it's getting more and more depressing every day. Don't wonder why Trump is where he is...listen to us please.					1
98	Janet Seaforth	5/5/2016	same themes as Aimee Polekoff	Almost verbatim comments as Aimee Polekoff		4	3	5	
99			protect Galveston Island and animals in this region	I have lived on Galveston Island and appreciate its beauty and diversity. Please help protect the animals that live in this region. The animals are subject to human behavior and decisions. Please act with compassion and integrity to create and maintain a safe home for these magnificent creatures. with Love		1	1	1	
100	John Kennedy	5/4/2016	same themes as Aimee Polekoff	six individual emails with same comments; comments almost verbatim comments as Aimee Polekoff		4	3	5	
101	John Pasqua	5/4/2016	same themes as Aimee Polekoff	six individual emails with same comments; comments almost verbatim comments as Aimee Polekoff		4	3	5	
102	John Pasqua	5/4/2016	same themes as Aimee Polekoff	six individual emails with same comments; comments almost verbatim comments as Aimee Polekoff		4	3	5	
103	John Pasqua	5/4/2016	same themes as Aimee Polekoff	six individual emails with same comments; comments almost verbatim comments as Aimee Polekoff		4	3	5	
104	John Pasqua	5/4/2016	same themes as Aimee Polekoff	six individual emails with same comments; comments almost verbatim comments as Aimee Polekoff		4	3	5	
105	John Pasqua	5/4/2016	same themes as Aimee Polekoff	six individual emails with same comments; comments almost verbatim comments as Aimee Polekoff		4	3	5	
106	John Pasqua	5/4/2016	same themes as Aimee Polekoff	six individual emails with same comments; comments almost verbatim comments as Aimee Polekoff		4	3	5	
107	John Pasqua	5/4/2016	same themes as Aimee Polekoff	six individual emails with same comments; comments almost verbatim comments as Aimee Polekoff		4	3	5	
108	Jon Berges	5/5/2016	same themes as Aimee Polekoff	same almost verbatim comments as Aimee Polekoff		4	3	5	
109			ban construction on coast	A ban on construction along dangerous areas of the coast should be considered. Building on the coast line and thus putting more Texas citizens in harms way does not make sense.		1	1	1	

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110	Kathleen Lytle	5/5/2016	same themes as Aimee Polekoff	same almost verbatim comments as Aimee Polekoff		4	3	5	
111			development; future generations; Mother Earth	Development needs to take into serious consideration our grand children and theirs!!! Our Mother earth must be protected by the agencies that matter! Please Mr Pannell be careful in what we approve.		1	1	1	
112	Kathryn Carroll	5/4/2016	same themes as Aimee Polekoff	same almost verbatim comments as Aimee Polekoff		4	3	5	
113			coordinationi with public	I would also like to thank you and the Army Corps of Engineers for caring enough to ask for this kind of imput.					1
114	Kathryn Fenn	5/5/2016	same themes as Aimee Polekoff	same almost verbatim comments as Aimee Polekoff		4	3	5	
115			unintended conseqences to wildlife sea turtles, seabirds	I am concerned that so-called "barrier island protection systems" you are considering to protect the Texas coast will have the unintended consequence of harming wildlife, specifically endangered sea turtle and sea bird nesting grounds.		1	1	1	
116	Kathy Jarvis	5/5/2016	same themes as Aimee Polekoff	same almost verbatim comments as Aimee Polekoff		4	3	5	
117			impacts to bird habitat	I am an avid birder who travels to different areas of the country and the world, and I am particularly concerned about adverse impacts on the magnificent and crucial bird habitat along the Texas coast.			1	1	
118	Kenneth Gibson	5/4/2016	same themes as Aimee Polekoff	same almost verbatim comments as Aimee Polekoff		4	3	5	
119	Laura Horowitz	5/5/2016	same themes as Aimee Polekoff	same almost verbatim comments as Aimee Polekoff		4	3	5	
120	Laurie D	5/4/2016	same themes as Aimee Polekoff	same almost verbatim comments as Aimee Polekoff		4	3	5	
121			protection of marine ecosystem	I am a frequent visitor to the Gulf after years of living in the Coastal South. The protection of this vital marine ecosystem is very important to me and my nature/fishing friends.		1	1	1	
122	Lee Schodnorf	5/4/2016	same themes as Aimee Polekoff	same almost verbatim comments as Aimee Polekoff		4	3	5	
123			short term projects hurt USA/Earth	Stop hurting the USA/Earth in short term thinking/projects!	1	1			
124	Lenard Milich	5/6/2016	same themes as Aimee Polekoff	same almost verbatim comments as Aimee Polekoff		4	3	5	
125	Linda Haney	5/4/2016	same themes as Aimee Polekoff	same almost verbatim comments as Aimee Polekoff		4	3	5	
126	M Johnaon, Esq.	5/4/2016	same themes as Aimee Polekoff	same almost verbatim comments as Aimee Polekoff		4	3	5	

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					PN	ALT	AE	EC	CC
127			protect environment; full analysis of effects; move humans away from area	Solutions must protect the coastal environment, and a full study and analysis of the biological effects of construction of any man-made coastal barrier system must be determined, and alternative ways to solve the problem must be considered including moving humans away from these areas.		1	1	1	
128	Maggie Schafer	5/4/2016	same themes as Aimee Polekoff	same almost verbatim comments as Aimee Polekoff		4	3	5	
129			stop destroying ecosystem; use natrual barriers	WE MUST STOP DESTROYING SENSITIVE ECOSYSTEMS AND BARRIERS! THESE PROJECTS ARE DRIVEN BY LACK OF COMMON SENSE! YOU WANT TO DO THE EASY THING BUT YOU DON'T CONSIDER THE IMPACTS ON THESE VERY RARE AND SENSITIVE PLACES AND WHAT IT WILL DO TO ENDANGERED MARINE WILDLIFE! IT IS TIME YOU DID! THE PUBLIC IS GETTING EXTREMELY TIRED OF HAVING TO ADVISE AGENCIES AS TO WHAT IS THE PROPER WAY TO DO A JOB! YOU ARE SUPPOSED TO KNOW BETTER! SO DO IT RIGHT AND USE NATURAL BARRIERS THAT WILL BE SUSTAINABLE ADAPTING TO THE SURGES AS CONCRETE AND STEEL WON'T!		1	1	1	
130	Maija Schaefer	5/4/2016	same themes as Aimee Polekoff	same almost verbatim comments as Aimee Polekoff		4	3	5	
131	Maria Christopher	5/4/2016	same themes as Aimee Polekoff	same almost verbatim comments as Aimee Polekoff		4	3	5	
132	Marian Isaac	5/4/2016	same themes as Aimee Polekoff	same almost verbatim comments as Aimee Polekoff		4	3	5	
133	Marie Louise Morandi Long Zwicker	5/5/2016	same themes as Aimee Polekoff	same almost verbatim comments as Aimee Polekoff		4	3	5	
134			restore and protect	Please do not make a bad situation worse. The environment and wildlife have already been severely, tragically damaged by what has happened in the gulf. Any deviation from a plan to restore and protect the natural environment will be a disaster because of incompetent plans and actions by the Corps.		1	1	1	
135			barriers result in damabe to environment	Barriers of any kind will result in more damage to the environment.		1		1	
136	Mary Madeco-Smith	5/4/2016	same themes as Aimee Polekoff	same almost verbatim comments as Aimee Polekoff		4	3	5	
137			concern with harm to creatures	BLESSED ARE THE CREATURES OF GOD THAT MAN WOULD STOP HIS MURDERING AND HARMING OF THEM.			1		
138	Nancy Riley	5/4/2016	same themes as Aimee Polekoff	same almost verbatim comments as Aimee Polekoff		4	3	5	
139	Pamelea Champoux	5/4/2016	same themes as Aimee Polekoff	same almost verbatim comments as Aimee Polekoff		4	3	5	

Table 5. Sierra Club Scoping Comments. This table categorizes scoping comments by EIS subject matter, which is where an individual comment would likely be addressed in the draft EIS.

Comment #	Person /Agency	Date	Theme of Comment	NEPA Scoping Comment (may be paraphrased or summarized)	EIS Section Where Comment Could be Addressed				
					PN	ALT	AE	EC	CC
140			fish and wildlife	Please consider those who cannot speak up for their homes; that turtles, birds, fish and other ocean wildlife depend on responsible stewardship of the beaches.					
141	Peter Chesson	5/4/2016	same themes as Aimee Polekoff	same almost verbatim comments as Aimee Polekoff		4	3	5	
142			natural methods of coastal protection	I urge you to study ecological and Earth systems approaches to coastal protection in Texas. There are many more positive outcomes than fighting nature with man made structures. You must take into account the very positive effects on the environment and lifestyles of the residents from natural methods of coastal protect, using nature to do the work rather than fighting nature at great expense, and ultimately also at great environmental cost, now and in the future.		1	1		
143	Pietro Poggi	5/4/2016	same themes as Aimee Polekoff	same almost verbatim comments as Aimee Polekoff		4	3	5	
144	Sandra Bonsell	5/4/2016	same themes as Aimee Polekoff	same almost verbatim comments as Aimee Polekoff		4	3	5	
145			sea tutles	I love these beaches and look for the Kemp Rigley Turtle three days a week for two hours each day to help protect them and it is my hope that you will consider their habitat in your plans.		1	1	1	
146	Sharon Feissel	5/4/2016	same themes as Aimee Polekoff	same almost verbatim comments as Aimee Polekoff		4	3	5	
147			sea turtles	I have personally been at protected turtle nesting sites and know that hatchling survival, even when everything is ideal, is a challenge. So my immediate comment would be to get to know what the survival requirements would be for the most challenged of creatures and see that your decisions work in their favor.			1		
148	Sheri Varner-Munt	5/9/2016	same themes as Aimee Polekoff	same almost verbatim comments as Aimee Polekoff		4	3	5	
149	Sierra Zephyr	5/4/2016	same themes as Aimee Polekoff	same almost verbatim comments as Aimee Polekoff		4	3	5	
150			wildlife and sea turtles	My first job in 1964 was on Padre Island, and I had to stop along the road from Brownsville to pick the turtles up and wait for the Armadillos to cross the road to motor down to work at the S. Padre Island Motel and Restaurant. Memories of the nesting turtles is one of the most precious in my life. I'd be aghast, heartbroken, if the Army Corps or anyone else damaged their habitat to make way for more human domination.		1	1	1	
151	Susan Rudnicki	5/4/2016	same themes as Aimee Polekoff	same almost verbatim comments as Aimee Polekoff		4	3	5	
152			natural solutions	As a resident of a coastal city in Los Angeles County, I am very familiar with the highly engineered coastal "remedy" projects that always seem to result in degradation of the natural environment and later, bigger issues caused by the lack of human understanding		1			

Table 5. Sierra Club Scoping Comments. This table categorizes scoping comments by EIS subject matter, which is where an individual comment would likely be addressed in the draft EIS.

Comment #	Person /Agency	Date	Theme of Comment	NEPA Scoping Comment (may be paraphrased or summarized)	EIS Section Where Comment Could be Addressed				
					PN	ALT	AE	EC	CC
				and consideration of LONG term benefit. Nature does not work well with static human engineered answers to coastal problems---tides, climate change, and the demands of growing human population numbers are pushing many ecological systems to the breaking point. The outcome is usually painful and difficult problems for the impacted humans, as well.					
153			greenhouse gases and abatements	The world in general, and Texas in part, is in a period of rapid and destructive change wrought by the rising oceans due to human generated green house gases. The decisions we make now regarding these "abatements" to hold back Nature will be tried severely in the coming decades.			1		
154	Tatjana Walker	5/4/2016	same themes as Aimee Polekoff	same almost verbatim comments as Aimee Polekoff		4	3	5	
155			wildlife, sea turtles, dolphins, health of estuaries	I live in San Antonio and frequently visit the Texas coast. Seeing the wildlife at the coast is always a pleasure, especially sea turtles and dolphins. I worry about the overall health of our bays and estuaries.			3		
				Totals	**2**	**261**	**216**	**318**	**4**

Appendix G-3

Addendum to Scoping Report, September 2016

US Army Corps of Engineers®

National Environmental Policy Act (NEPA)

ADDENDUM TO SCOPING REPORT

Coastal Texas Protection and Restoration Study
Integrated Feasibility Report and
Environmental Impact Statement

September 2016

INTRODUCTION

The National Environmental Policy Act (NEPA) of 1969 (Public Law 91-190; 42 U.S.C 4321 et seq) and the Regulations for Implementing the Procedural Provisions of NEPA (40 CFR §§ 1500-1508) require the Federal Government to use all practicable means to create and maintain conditions under which man and nature can exist in productive harmony. The NEPA procedures insure that environmental information is available to the public before decisions are made and before actions are taken. All Federal agencies are required to prepare detailed statements assessing the potential environmental impacts of and alternatives to major Federal actions significantly affecting the environment. Such detailed statements are referred to as environmental impact statements (EIS).

The U.S. Army Corps of Engineers (USACE), Southwestern Division, Galveston District published a Notice of Intent (NOI) in the *Federal Register* (Volume 81, Number 62, 18601) on March 31, 2016, declaring its intention to prepare a Draft Integrated Feasibility Report and Environmental Impact Statement (DIFR-EIS) to determine the feasibility of implementing the Coastal Texas Protection and Restoration Feasibility Study.

NEPA requires an early and open process for determining the scope of issues to be addressed in an EIS and for identifying the significant issues related to a proposed action. This process is referred to as scoping.

Scoping input from Federal, state and local agencies, Indian tribes, and other interested private organizations and parties were solicited with the NOI. In addition to the request for scoping comments on the NOI, a separate Scoping Notice announcing the USACE's request for scoping comments was also sent via electronic mail to affected and interested parties. Scoping comments were requested, consistent with the NOI, to be provided between March 31, 2016, and May 9, 2016. Scoping comments were requested to identify:

- Affected public and agency concerns;
- Scope of significant issues to be addressed in the DIFR-EIS;
- Critical problems, needs, and significant resources that should be considered in the DIFR-EIS; and
- Reasonable measures and alternatives that should be considered in the DIFR-EIS.

PURPOSE OF ADDENDUM

This addendum documents the early scoping efforts, which began in 2012, for the Coastal Texas Protection and Restoration Feasibility Study. The following describes the findings from the early scoping process to determine the scope of the issues and alternatives to be examined in the DIFR-EIS.

The Texas General Land Office (GLO) developed an overview of issues affecting the Texas coast, entitled *"The Texas Coast: Shoring Up Our Future"*. This document identified the issues of concern as wetland/habitat loss, water quality and quantity, impact to fish and wildlife, impact to marine resources, Gulf beach/dune erosion, bay shoreline erosion, flooding and storm surge, tourism/local economy, along with other less significant issues. This publication was used as a starting point in

identifying the scope of issues, problems and opportunities, and alternatives to be examined in the DIFR-EIS.

A series of scoping meetings were held along the upper Texas coast as a part of the Sabine Pass to Galveston Bay feasibility study. Meetings were held in Seabrook, Beaumont, Freeport, and Galveston, Texas in February and March 2012 to gather ideas for Coastal Storm Risk Management and Ecosystem Restoration opportunities in Region 1 of the study area. The information collected at these meetings was also used in the preparation of the Reconnaissance 905(b) Report (USACE, 2015).

In August 2014, separate scoping meetings were held in Palacios, Corpus Christi, and South Padre Island, Texas to collect similar information for the remainder of the Texas coast to encompass the Coastal Texas Protection and Restoration Feasibility Study efforts. These meetings requested input from the counties identified in Regions 2, 3, and 4 of the study area. An additional meeting was held in League City to update the public on the activities in Region 1.

During the public scoping meetings, numerous individuals provided verbal comments at each meeting. A total of 20 people representing county, city, and state agencies, ports, non-governmental organizations (NGOs), and private and special interest groups provided a total of 54 comments during the first three meetings. Verbal comments from the fourth meeting held in League City were not available and not included in this addendum.

The following summarizes concerns brought forth during the NEPA scoping process that were not previously documented. These comments are organized by bay system according to the following order: Galveston Bay, Matagorda Bay, San Antonio Bay, Corpus Christ Bay, Laguna Madre, and coast wide.

<u>August 11, 2014, Palacios, Texas – Public Meeting Scoping Comments Summary:</u>

Matagorda Bay

- The study should acknowledge the loss of fresh, intermediate, brackish, saline gradient due to low flow in Colorado River flows, changes to native fisheries, especially oysters.
- The study needs to include coastal S/L revetment and re-establish the Gulf Intracoastal Waterway (GIWW) land bridge with dredged sediments to include wetland restoration.
- The study should acknowledge the steadily increasing salinities in Matagorda Bay due to decreased freshwater inflows.
- The single best way to maintain the ecological productivity of the bay is to buy Colorado Rights for freshwater inflows and re-establish seasonal inflows.
- The study should acknowledge the erosion of beach front of East Matagorda Bay and erosion protection for Sargent Beach.
- The study should acknowledge the threat of breakthrough in the land barrier and how this would impact the habitat types currently in Keller Bay.
- The study should propose the improvement of the Matagorda Ship Channel.

Coast Wide

- The study needs to obtain a sediment budget for the Texas Coast to inform objectives in planning and should use current studies to inform future data collection strategically, where required.
- The study should identify potential sand sources from GLO designated sites.

August 12, 2014, Corpus Christi, Texas – Public Meeting Scoping Comments Summary:

Galveston Bay

- The study should identify areas where wintering piping plover habitat can be established, particularly on marsh along Bolivar Peninsula.

Matagorda and San Antonio Bays

- Concerned with lack of freshwater inflow into the system.
- Interested in preservation and restoration of habitats: oyster reef, Mad Island Wildlife Management Area, and bird rookery islands.

Corpus Christi Bay

- There is a need for industry to understand and realize the risks and residual risks in order to focus on non-structural solutions needed to perform flood proofing against storms.
- Within the Nueces Delta, the project should complete acquisition of all delta parcels, implement more hydrological restoration projects, protect the delta shoreline, and restore marsh in the delta using dredged material.
- The study should identify areas where wintering piping plover habitat can be established, particularly on Pelican Islands on Corpus Christi Ship Channel.
- Interested in local/regional coalition to support the project and build support.

Coast Wide

- The study should place monetary value on sediments to be dredged for non-Federal sponsor cost share accounting to offset the required funds.
- The study should coordinate plans across Federal and non-Federal organizations that may not be explicitly partnering to strive toward consistency and synergy in plan outcomes.
- The study should incorporate analyses of the effects of sea level rise.
- The study should seek out opportunities to increase whooping crane habitat coast wide.
- The study needs to consider observing each coastal region as independent of the surrounding regions.

August 13, 2014, South Padre Island, Texas – Public Meeting Scoping Comments Summary:

Laguna Madre

- The study needs to address the wind storm surge flooding in Port Isabel and consider adding a relief valve under Highway 100.
- The study should consider hydrological detention in regional valley floodways to modulate adverse freshwater impacts in Laguna Madre.
- The study should consider keeping the Port Mansfield Ship Channel open, as this is important in relieving bay surge.

Coast Wide

- There is a need to educate the local community on coastal vulnerability to stimulate engagement in the process.
- The study should to address the need to produce vegetation for use (mangroves, smooth cord grass, sea oats, sea grasses, etc.).
- The study needs to address relative sea level rise and establish a long-term strategy for relative sea level rise, setbacks, and anticipated adaption in near-term designs.

In addition, written scoping comments (letters and emails) were received from Federal, state, and local agencies, NGOs, private and special interest groups, and concerned members of the public. A total of 22 scoping comment letters and emails were received during the scoping comment period in August 2014 containing 57 comments.

The following summarizes concerns brought forth during the NEPA scoping process that were not previously documented, including both written comment letters and emails that were received during the August 2014 scoping review period.

August 2014 Scoping Comment Letters and Emails Summary:

- The study needs to identify bird island beneficial use projects that could be incorporated into planned dredging events.
- The study needs to support and identify other beneficial use projects that could enhance foraging habitats for water birds, shorebirds, and neotropic migrants.
- Supports protection and restoration of wetlands, bird islands, oyster reefs, critical habitat, and other natural features along the coast and project features that will protect these resources.
- The study needs to focus on capturing dredged sediments along the Texas Coast to be used as beneficial use projects.
- The study should not support hard structures (seawalls, extensive rock groins, jetties, or similar projects) that destroy and interrupt beaches and dunes and the natural sand transport systems.
- The study should concentrate support and projects on developing East Galveston Island instead of West Galveston Island.
- Building the "Ike Dike" provides the best solution for the Gulf coast region, it protects the entire bay area and industries and eliminates the need for the other bay alternatives.

- The "Ike Dike" and the Centennial Gate are separate studies and should be treated as such.
- The Centennial Gate should be dismissed because it does not do anything to protect people and property along the coast.
- Supports ring levees for highly populated areas.
- Natural solutions to storm surge mitigation should be thoroughly investigated and exhausted before moving forward with the "Ike Dike" so that unintended consequences to the estuary's critical habitats and functions are not imperiled.
- Suggests reconsideration of the results from the USACE storm damage reduction study produced in the late 1970s and the construction of bay-side protection.
- The progress of the study should not be slowed trying to compare and make comprises.
- The study should consider using Matagorda County as a catalyst for long-term comprehensive coastal planning for the entire Texas Coast.
- Should conduct studies on impacts the project would have, for example: spawning marine organisms if the Houston Ship Channel was reduced; scouring of Bolivar Roads; impacts to piping plover and sea turtles from hard structure alternatives; impacts to San Luis Pass; impacts to water/salinity/marine organisms into and out of Galveston Bay; determine which entities will be involved and where public input will occur; determine the level of protection that will be provided for hurricane category and storm surge height, etc.

SUMMARY

During the public scoping meetings and comment period, numerous individuals provided comments at each meeting and via letters and email. A total of 111 comments were received during the scoping comment period in August 2014. Comments were received from Federal, state, and local agencies, NGOs, private and species interest groups, and concerns members of the public. During the June 2016 scoping, a total of 2,108 scoping comment letters and emails were received during the scoping comment period. The majority of comments were submitted by NGOs, especially the Sierra Club; the second most numerous comments were from individuals, state, Federal, city/town, and university.

The scoping comments received in August 2014 during both public scoping meetings and from scoping comment letters and emails were similar to the scoping comments received during the March 2016 comment period. The greatest distinction between the two sets of comments was the generality of the comments. The August 2014 comments were much more specific and particular to an area or bay system, whereas the comments received during the March 2016 comment period were more detailed and pointed toward the entire Texas Coast.

Due to the sheer volume of comments received during the March 2016 scoping period, it is difficult to make a comparison between the August 2014 and March 2016 scoping comments. However, the most common theme between the two meetings were in regards to protecting/restoring and not harming coastal natural resources to the maximum extent possible including oyster reefs, sea grass, wetlands, bird rookeries, sea turtle nesting beaches, marine species, National Wildlife Refuges, natural coastal areas, hydrology, water quality, critical habitats, threatened and endangered species, etc. across the entire Texas coast.

REFERENCES

U.S. Army Corps of Engineers (USACE). 2015. Coastal Texas Protection and Restoration Study, Final Reconnaissance 905(b) Report. USACE, Galveston District, May 2015.

Appendix G-4

Additional Comments Received Outside Scoping Period

Lisa Vitale

From: CESWG-Coastal Texas <CoastalTexas@usace.army.mil>
Sent: Thursday, October 06, 2016 3:01 PM
To: Behrens, Elizabeth MVN; Stokes, Janelle S SWF @SWG; Lisa Vitale; Anthony Risko
Subject: FW: [EXTERNAL] USACE Public Notice for Coastal Texas Protection and Restoration Study Timeline
Attachments: Coastal Schedule.pdf

Additional comments by Sierra Club after providing Brandt Mannchen the study schedule.

Sheri Willey
Project Management

-----Original Message-----
From: brandtshnfbt@juno.com [mailto:brandtshnfbt@juno.com]
Sent: Thursday, October 06, 2016 11:46 AM
To: CESWG-Coastal Texas <CoastalTexas@usace.army.mil>
Cc: brandtshnfbt@juno.com; elmerz@hal-pc.org; jbartos@htownlaw.com; Stokes, Bob <bstokes@galvbay.org>
Subject: [EXTERNAL] USACE Public Notice for Coastal Texas Protection and Restoration Study Timeline

Dear Sheri,

On behalf of the Houston Regional Group of the Sierra Club (Sierra Club) I want to provide the U.S. Army Corps of Engineers with additional input about potential environmental impacts that could occur due to the implementation of any alternative for storm surge suppression in the Galveston Bay Area as addressed by the Coastal Texas Protection and Restoration Study for the National Environmental Policy Act (NEPA) process. These potential environmental impacts include:

1) Ebb-flows (from storm surge) back into the Gulf of Mexico from Galveston Bay may create erosion, sedimentation, and flooding for ecosystems and properties behind an Ike Dike or other alternative.

2) Alteration of salinity from storm surge suppression alternatives may affect dolphins that live in Galveston Bay and create the conditions where the Marine Mammal Protection Act prohibitions or mitigation is triggered.

3) Alteration of salinity from storm surge suppression alternatives may affect oysters, oyster reefs, and oyster hash areas in Galveston Bay.

The Sierra Club appreciates this opportunity to comment. Thank you.

Brandt Mannchen
Houston Regional Group of the Sierra Club
713-664-5962
brandtshnfbt@juno.com

Please note: forwarded message attached

From: CESWG-Coastal Texas <CoastalTexas@usace.army.mil>
To: "brandtshnfbt@juno.com" <brandtshnfbt@juno.com>, "Tirpak, Sharon M SWG" <sharon.tirpak@usace.army.mil>

Subject: RE: [EXTERNAL] USACE Public Notice for Coastal Texas Protection and Restoration Study Timeline
Date: Thu, 6 Oct 2016 14:04:12 +0000

Dear Mr. Mannchen -

The timeline that you saw is the one that was laid out for the exemption package for the study and is what we are working towards at this time. I have attached the schedule presented. The May 2018 date is the date of our next milestone meeting - the Tentatively Selected Plan (TSP) Milestone in which we present our TSP to our headquarters and get approval to release the plan in the draft report. In May 2018 we will know the TSP and then work to complete the draft report and EIS for release. The draft report is scheduled to go out within 60 days of the TSP meeting, so the draft report is expected to be released for public review in July 2018.

Feel free to contact me anytime with questions regarding our study.

Sincerely,

Sheri Willey
Project Management

-----Original Message-----
From: brandtshnfbt@juno.com [mailto:brandtshnfbt@juno.com]
Sent: Thursday, October 06, 2016 8:40 AM
To: CESWG-Coastal Texas <CoastalTexas@usace.army.mil>; Tirpak, Sharon M SWG <sharon.tirpak@usace.army.mil>
Cc: brandtshnfbt@juno.com
Subject: [EXTERNAL] USACE Public Notice for Coastal Texas Protection and Restoration Study Timeline

Dear Sharon and Corps,

I attended the Galveston Bay Foundation's recent public meeting where storm surge suppression was discussed. There was a discussion and slide which alluded to the timeline for the Draft Feasibility Study and DEIS. My understanding is that the Corps would produce a DEIS in about May 2018. However, others have told me that is not the case.

Would you please send me the current timeline for the Coastal Texas Protection and Restoration Study and let me know when the Galveston Bay portion of the Draft Feasibility Study and DEIS is projected to come out? Thank you.

Brandt Mannchen
Houston Regional Group of the Sierra Club
713-664-5962
brandtshnfbt@juno.com

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How To Remove Lip Lines & Aging Eye Bags In Under 3 Minutes Health News 24
<BlockedBlockedhttp://thirdpartyoffers.juno.com/TGL3132/57f6546e28737546e11a2st01vuc>
BlockedBlockedhttp://thirdpartyoffers.juno.com/TGL3132/57f6546e28737546e11a2st01vuc
<BlockedBlockedhttps://d32oduq093hvot.cloudfront.net/icons/sponsoredlinksby.png>

	Milestone	Date
Scoping	Exemption Approval by Senior Leaders	Sep 2015
	Exemption Approval by ASA(CW)/OMB	Nov 2015
	Execute FCSA with GLO	Nov 2015
Alternative Evaluation and Analysis	Alternatives Milestone	June 2016
	Tentatively Selected Plan (TSP) Milestone	May 2018
Feasibility Level Analysis	Agency Decision Milestone (ADM)	Oct 2018
	Feasibility Report Complete	Oct 2020
	Civil Works Review Board (CWRB)	Jan 2021
	S&A Review	Feb 2021
	Chief's Report	Apr 2021

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Houston Regional Group
P.O. Box 3021
Houston, Texas 77253-3021
713-895-9309
http://texas.sierraclub.org/houston/

November 30, 2016

Ms. Sheri Willey
Project Manager
Coastal Texas Protection and Restoration Study
U.S. Army Corps of Engineers
Galveston District
P.O. Box 1229
Galveston, Texas 77553-1229

Dear Ms. Willey,

The Houston Regional Group of the Sierra Club (Sierra Club) provides some feedback on the U.S. Army Corps of Engineers Coastal Texas Protection and Restoration Study, Final Reconnaissance 905(b) Report, May 2015.

1) For some reason I was never sent a notice of availability for this report in May 2015. Recently, a colleague of mine provided me with a copy and I went to the Galveston District's website and downloaded the appendices. Please check the Corps mailing list to make sure that I am listed as the Sierra Club contact for this proposal. My contact information is: Brandt Mannchen, Houston Regional Group of the Sierra Club, 5431 Carew, Houston, Texas 77096, 713-664-5962, brandtshnfbt@juno.com. Thank you.

2) The Sierra Club notes on **Page 3, 3. Recommendation/Finding of Federal Interest, Page 51, 14.2.1 Region 1 Measures, and Page 68, 16. Future Project Implementation,** that the Final Reconnaissance Report (FRR) "does not represent a complete inventory of all opportunities and does not necessarily represent the most feasible and acceptable solutions."

The Sierra Club agrees with this statement, then and currently. It appears that the only alternatives that have been seriously mentioned or considered at this junction are the "Ike Dike" alternative (Coastal Spine, Central Spine, GCCPRD and Texas A&M) and the SSPEED Center alternative (Mid-Bay alternative or "Ike Dike Junior").

The Sierra Club believes the Corps should look at alternatives as they relate to important natural and human locations. For instance, Galveston Island and Bolivar Peninsula are natural features that reduce storm surge and other storm effects. Any natural and human locations on these two natural features should be looked at differently than the Houston Ship Channel location, the West

"When we try to pick out anything by itself, we find it hitched to everything else in universe." *John Muir*

Galveston Bay Area, like NASA/Clear Lake location, La Porte location, the Shoreacres location, Texas City location, the East Galveston Bay Area, like Smith Point, Oak Island, Anahuac, Winnie, High Island, etc. Each of these locations have different natural and human features that should be considered before alternatives are thought about or created.

It makes sense to survey, inventory, and map all important natural features (environmentally sensitive areas) and think about the design of alternatives around and away from (avoid) these areas or minimize any disturbance, disruption, degradation, and destruction of these areas, with clear environmental analysis, assessment, and evaluation of impacts first, so that any positive or negative impacts are known upfront before alternatives are thought about, created, or designed.

An example of this process is Galveston Island/Bolivar Peninsula. There are many environmentally sensitive areas on or next to these two natural features. It makes sense for the Eastern part of Galveston Island, where most of the infrastructure is located (sewage, water, roads, major buildings, commercial establishments, industrial facilities, residential homes, etc.) to consider a ring levee.

For the Western part of Galveston Island/Bolivar Peninsula it makes sense to use federal and private flood insurance, voluntary buy-outs, protection and enhancement of beaches, dunes, prairies, freshwater wetlands, saltwater wetlands, brackish water wetlands, mud flats, etc., very strong building codes, and an enforced geohazards map to address the impacts of storms, hurricanes, floods, tides, waves, etc.

Another example is the Houston Ship Channel. For the Houston Ship Channel it makes sense to look at the Houston Ship Channel Area which includes part of Buffalo Bayou, part of the San Jacinto River, large industrial facilities with existing levees (a risk assessment is needed for these levees and how they can be made stronger), a risk assessment for storage tanks and other sensitive toxic sites, a levee district to address all of this, an economic assessment for who should pay for this, and how existing communities, cities, and residential areas on the Houston Ship Channel will be protected.

Different locations have different natural and human features, need different solutions, and need different avoidance, minimization, and mitigation measures. There is no "silver bullet" or "one size fits all" alternative. Multiple measures for each alternative make sense. Multiple measures set-up multiple lines of defense at each location

3) **Table 4-3, Top Tropical Storms by Damages Impacting Texas,** is misleading and should be changed. The reason it is misleading is that the equivalent costs for each storm are not shown, only the costs calculated at the

time of the storm is shown. The public and others cannot compare how costly these storms are and determine trends in costs. The Corps, in any further studies, should convert the damages (costs) of each storm into a common year's monetary worth so that a genuine cost comparison between storms can be made.

4) **Table 4-5, Protected Lands in Study Area,** is deficient because it does not have Big Thicket National Preserve (the Beaumont Unit should be shown and perhaps other units) in the table. **Page 22,** under Scenic Galveston Preserve, the table lists the Virginia Point Peninsula Preserve as being managed by the General Land Office. This is incorrect. Scenic Galveston manages the Virginia Point Peninsula Preserve.

5) **Page 31, Table 5-1, Deep-Draft Waterways by Region,** the Corps, for the Houston Ship Channel, has a 50-foot depth listed as being studied. However, the Corps fails to mention that with the existing 45-foot channel and the over-dredge that is allowed, that 48-50 feet in depth is currently allowed. The Corps should ensure that when it looks at cumulative impacts for the Coastal Texas Protection and Restoration Study that it addresses the impacts of over-dredge depths. The proposed new 50-foot depth will have an over-dredge depth (this will make the depth close to 55-feet) especially when modeling salinity and other water quality impacts.

6) **Page 32, 7.1 Problems,** the Corps assumes that 6.1 million residents now and in the estimated future, 9.3 million residents, are all at risk. This is incorrect. Some residents will be at risk due to winds, some due to local flooding, some due to storm surge. The Corps should specifically show how many and where each segment of residents live with regard to each risk factor.

7) **Page 33, 7.1 Problems and Page 38, 10. Fish and Wildlife Resources Considerations,** the narrative about migratory waterfowl and fisheries habitats risk is incomplete and misleading. Much of the storm surge risk in these areas is due to the lack of sediment coming down rivers and supplying the longshore current for beaches and dunes and due to climate change which causes sea level rise to increase which creates additional erosion. Suggesting that the construction, operation, and maintenance of ship channels, canals, and impoundments is a "small percentage of saltwater wetland losses" is simply untrue particularly when the Intracoastal Waterway impacts are taken into account. The Corps underestimates human impacts on the natural shoreline and the erosion, habitat losses, and water pollution that has occurred as a result.

8) **Pages 34 and 35, 7.2 Opportunities,** the Corps does not take into account what the backwash from hurricanes and storms and the wind damage that will occur when talking about opportunities. The Sierra Club does not agree that long-term sustainability of forested wetlands, restoration of barrier islands,

erosion reduction, and endangered species habitat will result from large storm suppression projects like the "Ike Dike".

9) **Pages 35 and 35, 7.3 Future Without Project Conditions,** the Corps does not provide an explanation about where the $142 billion eight-county regional economic impacts came from four quarters after Hurricane Ike. This type of calculation often results in overestimates and assumptions that are not reasonable.

It is not the repetitive storm events that have created vulnerable ecosystems. It is the human impacts that have weakened ecosystems so that natural storms do more damage than they would have if we had not damaged ecosystems. **The reference for repetitive storm events, Williams, et al, 2009, is not in the Appendix C references. The Sierra Club requests a copy of this document.**

10) **Page 36, 8.1 Planning Goals,** it would seem that "keep people out of harm's way" would be one planning goal. The Corps should consider in a significant manner "planned withdrawal" or buyouts so that people can voluntarily get out and so that cities, etc., do not allow people to live in "harm's way".

11) **Pages 36 and 37, 8.2 Planning Objectives,** the Sierra Club does not believe that water quality and coastal habitat will be improved via the use of large storm surge projects like the "Ike Dike". No documentation exists that would suggest this.

12) **Page 42, 12. Real Estate Considerations, Figure 13-1, Risk Reduction Measures,** the Sierra Club is concerned that the Corps does not place buyouts, re-locations, and planned withdrawals in this figure. The Sierra Club is concerned that this indicates a bias against these well thought out and tested options.

13) **Page 43 13.1 Management Measures,** the Sierra Club does not believe that "collaborative processes to engage stakeholders throughout the project" have been implemented. The Sierra Club is a stakeholder due to its public interest concerns. The Sierra Club has not been invited to participate in meetings with other stakeholders and the Corps. The general public is a stakeholder because its money will pay for alternatives approved. There has been no regional, long-term, dialogue and discussion for all entities and people affected. The few public meetings that were held, in the Sierra Club's view, did not provide important environmental data or long-term forecasts for sea level rise and climate change alterations to our coast, like erosion. We need a regional dialogue that does not limit itself to those who will profit from a chosen alternative.

14) **Page 46, 13.1.2 ER Management Measures,** some of the ER measures that are listed are duplicates. For instance, restoration of rookery islands and GIWW island restoration are duplicate measures.

15) **Page 51, 14.1.3 Shoreline Restoration Measures,** if the Corps "attract additional recreational users" then it must also list and quantify the negative environmental impacts of these users, like loss/damage of vegetation, disturbance to wildlife, roadkill, loss/damage of dunes, compaction, rutting, etc. and subtract the costs of these negative impacts from the so-called positive benefits of attracting additional recreational users.

16) **Pages 53 and 54, 14.3.1 Region 1 Alternatives,** the Corps should require that a 100-year project life, not a 50-year project life, be used. If the Corps uses a 100-year storm event for alternative analysis then it should use a 100-year project life so that the 100-year storm event will actually occur.

The Corps should state clearly that the National Wetlands Inventory has flaws. Many wetlands are not found in this dataset. To suggest that there are environmental benefits for structural measures using acreages of wetlands impacted misunderstands ecology.

Hurricanes are not the terrible source of wetlands damage that the Corps assumes. Hurricanes create habitats or rearrange sediments so that over the long-term wetlands benefit. Hurricanes ensure that barrier islands move and are built up higher to withstand sea level rise and allow wetlands to roll with the island. Structural measures, like the 'Ike Dike", interfere with the natural ecological processes of barrier islands by their attempt to tie barrier islands down when Nature says they must move.

The Corps should not assume that structural measures "protect Nature from Nature". This is a foolish assumption and suggests that the Corps does not understand ecological processes and the long-term function of these processes. Since humans have accelerated sea level rise it is not clear whether raising roadways 6 feet will be sufficient over 50 years or 100 years to prevent damage due to flooding.

The Sierra Club appreciates this opportunity to comment. Thank you.

Sincerely,

Brandt Mannchen
Conservation Committee
Houston Regional Group of the Sierra Club
5431 Carew
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From:	CESWG-Coastal Texas
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Cc:	Dianna Ramirez; Ray Newby (Ray.Newby@GLO.TEXAS.GOV); Williams, Tony; Hugo Bermudez (Hugo.Bermudez@mottmac.com); Juan Moya; Lisa Vitale; Patrick McLaughlin (Patrick.McLaughlin@mottmac.com); Anthony Risko
Subject:	FW: [EXTERNAL] Coastal Texas Protection and Restoration Study
Date:	Wednesday, December 14, 2016 9:19:09 AM
Attachments:	Watson Mapping Vulnerability.pdf Schmidt Letter to Corps.pdf

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Here is an email that came into the Coastal TX mailbox this week. Please look over to determine if it is applicable to our study effort.

Lisa - Also, please add Dr. Schmidt to the mailing list/email list for all regions.

Sheri Willey
Project Management

-----Original Message-----
From: Deanna Schmidt [mailto:deannahschmidt@gmail.com]
Sent: Tuesday, December 13, 2016 8:04 PM
To: CESWG-Coastal Texas <CoastalTexas@usace.army.mil>
Subject: [EXTERNAL] Coastal Texas Protection and Restoration Study

Dear Ms. Wiley;

Though the deadline for scoping comments has past, I felt it important to draw your attention to recent research that may be helpful to your efforts. Please find two documents attached to this email - a letter from me and a journal article.

If you have any questions or concerns, please do not hesitate to contact me.

Sincerely,

d

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December 13, 2016

Ms. Sheri Willey
Project Manager
Coastal Texas Protection and Restoration Feasibility Study
USACE Galveston District
P.O. Box 1229
Galveston, TX 77553-1229

RE: Coastal Texas Protection and Restoration Feasibility Study

Dear Ms. Willey;

I write to offer information regarding new approaches in ecosystem conservation and protection which may be helpful to the Coastal Texas Protection and Restoration Feasibility Study. As you know, the USACE study aims to recommend appropriate policies for coastal protection, conservation, and restoration. An important step is to identify the most vulnerable ecological systems in need of protection, conservation, or restoration.

The study (referred to as the Watson study below) included with this letter presents an innovative approach to identify vulnerable ecosystems. I believe its approach, set of indicators, and methodology could be effectively applied to the USACE's study. The Watson study citation:

> James E. M. Watson, Takuya Iwamura, and Nathalie Butt. 2013. "Mapping vulnerability and conservation adaptation strategies under climate change." Nature Climate Change. Vol.3, DOI: 101038/NCLIMATE2007 p. 989-994.

Below, I summarize the key insights of the paper.

- Identification of ecosystem vulnerability is an important step in the development and implementation of appropriate policy responses to climate change.

- Ecosystem vulnerability is assessed by measuring climate stability (exposure) and adaptive capacity.
  - Climate stability refers to a social or ecological system's exposure to potential disruption. Climate stability is measured by quantifying how similar the future climate will be to the present.
  - Adaptive capacity (resilience) refers to a social or ecological system's ability to maintain integrity and key functions despite disruption. Adaptive capacity is measure by the natural integrity of the ecosystem, or - the proportion of intact natural vegetation found in each ecoregion.
- Methods:
  1. Identify of ecoregions — geographic areas based on delineations in taxonomic compositions, revolutionary histories, and shared climatic domains.
  2. Measure adaptive capacity of ecoregion intactness — the proportion of areas where native vegetation has been totally transformed through agricultural development and urbanization. The scientists used Globcover version 2.1, which has a spatial relation of 300m. This data can be accessed here: http://due.esrin.esa.int/page_globcover.php The scientist calculated the cells classified as Cultivated Terrestrial Areas and Managed Lands, and Artificial Surfaces and Associated Areas against the total number of cells within an ecoregion as a measure of vegetation intactness.
  3. Measure climate stability using WorldClim database which provides 8.48 million data points across all ecoregions. This data can be accessed here: http://worldclim.org Six variables were used represent general climatic patterns - present and in future, 2050s: 1) annual mean temperature, 2) mean diurnal temperature range, 3) mean annual temperature range, 4) annual precipitation, 5) precipitation seasonality, and 6) precipitation of the driest quarter. A relative climatic stability index was calculated using an enveloped-based gauge. This measures the degree of overlap between present and future climate.
  4. Run a correlation analysis using Spearman's p on the two variables - ecoregion intactness and climate stability.
- Results:
  - The relationship between ecoregion intactness and climate stability varied widely.
  - The relationship was significant ($n = 803$, $p < 0.01$)
  - There is strong evidence that climate change is negatively interacting with habitat loss and contributing to the degradation of biological diversity. The results identified 'hot spots' — areas likely to experience the greatest loss in biodiversity. You will note interior United States is one of those 'hot spot'. The Texas Gulf Coast is classified with relative climate stability (this analysis does not include sea level rise) but low levels of ecoregion intactness.

- Specific conservation strategies were offered based on the degree of ecosystem intactness and climate stability.

- The advantages of this approach:
  1. Considers both exposure to climate change and the capacity for an ecosystem to adapt. Ecosystems could be relatively stable climatically but highly vulnerable for other reasons such as low levels of intact vegetation.
  2. Focuses on ecosystem adaptation rather than specific species within the ecosystem.
  3. Identifies threats of land use change to ecosystems.

The approach used by the Watson study could enhance the Corps' Texas Coast study. Analogous to the Watson study, I urge the Corps to conduct a spatial analysis to identify the most vulnerable ecological systems on the Texas Gulf Coast. This would require selection of a smaller spatial unit applicable to the regional scale and perhaps changes to the variables included. I suggest including an additional variable to capture sea level rise. The analysis could also aid USACE in identifying additional data needs and recommending comprehensive strategies to address the Texas Gulf Coast vulnerabilities.

I would be honored to provide any assistance needed. Please contact me at your convenience: Dr. Deanna Schmidt, deannahschmidt@gmail.com 281-979-1735.

Sincerely,

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nature climate change

LETTERS

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Mapping vulnerability and conservation adaptation strategies under climate change

James E. M. Watson[1,2]*†, Takuya Iwamura[2,3]† and Nathalie Butt[2]

Identification of spatial gradients in ecosystem vulnerability to global climate change and local stressors is an important step in the formulation and implementation of appropriate countermeasures[1,2]. Here we build on recent work to map ecoregional exposure to future climate, using an envelope-based gauge of future climate stability—defined as a measure of how similar the future climate of a region will be to the present climate[3,4]. We incorporate an assessment of each ecoregion's adaptive capacity, based on spatial analysis of its natural integrity—the proportion of intact natural vegetation—to present a measure of global ecosystem vulnerability. The relationship between intactness (adaptive capacity) and stability (exposure) varies widely across ecoregions, with some of the most vulnerable, according to this measure, located in southern and southeastern Asia, western and central Europe, eastern South America and southern Australia. To ensure the applicability of these findings to conservation, we provide a matrix that highlights the potential implications of this vulnerability assessment for adaptation planning and offers a spatially explicit management guide.

Anthropogenic climate change is impacting ecosystems globally, causing changes in phenology, species composition and range shifts[5], while increasing environmental degradation is leading to habitat fragmentation or loss. These two factors in concert are likely to result in exacerbated biodiversity decline and extinction in the near future[6]. As rates of both biodiversity loss and threats are growing[7], the identification of spatial gradients of ecosystem vulnerability to both global and regional drivers is required for the development of effective conservation measures.

There are three shortcomings in present conservation-oriented climate change assessments, regardless of their spatial scale. The first concerns vulnerability assessments, which until recently have been focused solely on the system's (extrapolated from species') exposure to future climate change, without considering that vulnerability to climate change is influenced by the system's (species') sensitivity and adaptive capacity, as well as exposure[1,2,8,9]. For conservation planning purposes, this sole focus on exposure does not always equate to the identification of areas that have the most pressing needs for adaptation, particularly those that may be relatively stable climatically but are far more vulnerable to climate change owing to other reasons (for example, present levels of vegetation intactness). The second shortcoming is that most climate change assessments have been conducted on species-specific responses, and therefore have been largely unable to inform conservation actions in terms of ecosystem-focused adaptation[10,11]. The third shortcoming is that few species or ecosystem assessments have attempted to identify (and map) the specific adaptation action needed to overcome the threats posed by climate change, especially as related to land use and land use change, the other significant driver of ecosystem change. Most research so far provides generic, non-spatially explicit adaptation recommendations (such as corridor development, managed translocations, adaptive management[1,12]), without considering the size and location of each threat. Although generic recommendations are useful, climate change is going to affect ecosystems directly and indirectly in a myriad of non-uniform ways[8,9]. Research is thus needed to identify not only which adaptation activities are necessary above and beyond present conservation activities, but also where they are most appropriate.

Here we produce a methodology to overcome these shortcomings by undertaking an ecoregional assessment at the global scale that integrates an ecoregion's adaptive capacity, based on a spatial analysis of the ecoregion's natural integrity (defined as the proportion of intact natural vegetation found in each ecoregion, and thus a function of land use), with its relative exposure to future climate change, to help inform spatially explicit adaptation guidance for conservation practitioners. Ecoregions were used as the spatial unit of assessment as they are the most relevant environmental and ecologically distinct spatial unit at the global scale[13], and are used widely to guide global conservation investments, assessments and action.

We mapped ecoregional exposure to future climate by using an envelope-based gauge[14] of future climate stability, defined as the similarity between present and future climate[3,4] (2050s; equation (1)). The global distribution of climate stability varied largely among ecoregions (Fig. 1a,b), with a mean climate stability of 42.3% (s.d. = 19.8) and a median of 44.8%. Ecoregions with relatively low climate stabilities tended to be located at high latitudes, such as North America and Europe and southern Patagonia, or at uniformly high altitudes such as the northern Tibetan Plateau (Fig. 1a and Supplementary Information), whereas ecoregions that are climatically more stable showed greater variation in elevation and were located predominantly in low latitudes[4] (Fig. 1a). However, some ecoregions located close to the Equator (for example, northeastern South America) and at low altitudes (for example, southern Australia) were found to have relatively low climate stability (Fig. 1a). Close examination of the relationship between bioclimatic variables and the ecoregional climatic envelopes showed that precipitation of the driest quarter and precipitation seasonality were significant determinants of climate stability (Supplementary Table S1 and Fig. S1a–c). When

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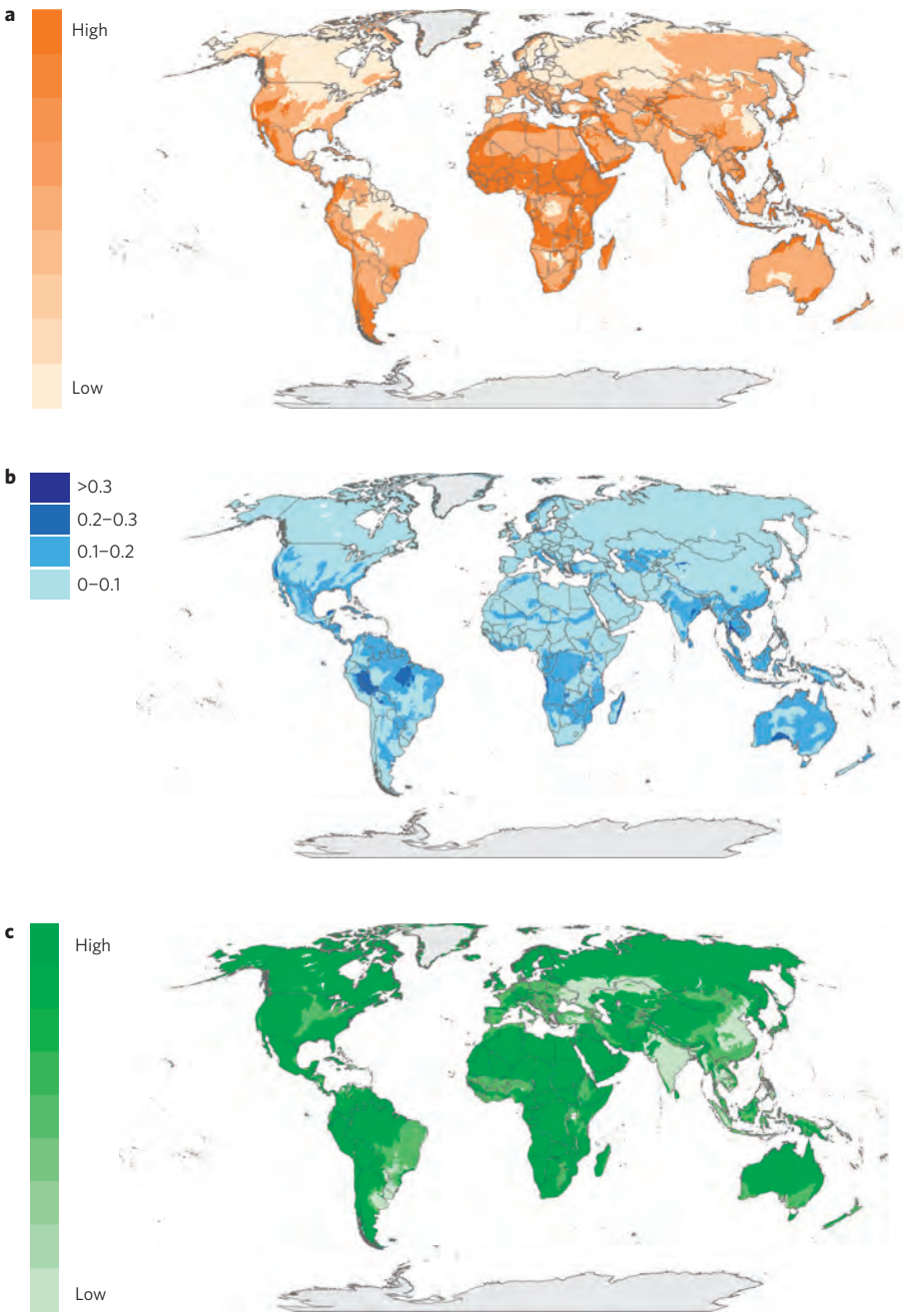

Figure 1 | Terrestrial global distribution of ecoregional climate stability and vegetation intactness. a–c, Terrestrial global distribution of ecoregional climate stability (**a**), standard deviation distribution of ecoregional climate stability (**b**) and vegetation intactness (**c**). Climate stability was defined as a measure of how much of an ecoregion will remain suitable (that is, climatic conditions will remain within present parameters) for the species and ecosystems it contains at present[3,4]. It is therefore a relative scale. The darker colours represent more relatively stable climates (that is, regions more suitable for existing ecosystems). The climate stability shown here is the average over the results from the seven GCMs. The standard deviation allows for an assessment of agreement between the seven GCMs. Light blue colours indicate high agreement between the seven GCMs used and darker blue colours indicate less agreement. Vegetation intactness was calculated using the GlobCover 300 data set[26]. The proportion of areas where native vegetation has been transformed through agricultural development and urbanization in each ecoregion was determined and a measure of vegetation intactness of the ecoregion was calculated. This is a conservative measure of intactness as it does not take into account vegetation degradation. As the data were not normal they have been transformed to a normal distribution by taking the square root values. The darker colours represent more intact ecoregions. As resolution is a problem with global maps, we have provided the same maps at the continental scale in the Supplementary Information.

ecoregional vegetation intactness was assessed, we found that the most degraded ecoregions were located in western Europe, North America, eastern South America, China, India, and southern and southeast Asia (Fig. 1c and Supplementary Information). The relationship between vegetation intactness and relative climate stability varied widely across ecoregions (Fig. 2). The relationship between these two variables was significant ($n = 803$, $p < 0.01$) but weakly negative (Spearman's $\rho = -0.176$).

The degree to which an ecoregion was vulnerable to climate change changed substantially across all inhabited continents when ecoregional integrity was considered (Figs 1a and 2b). This shows the importance of integrating assessments that highlight

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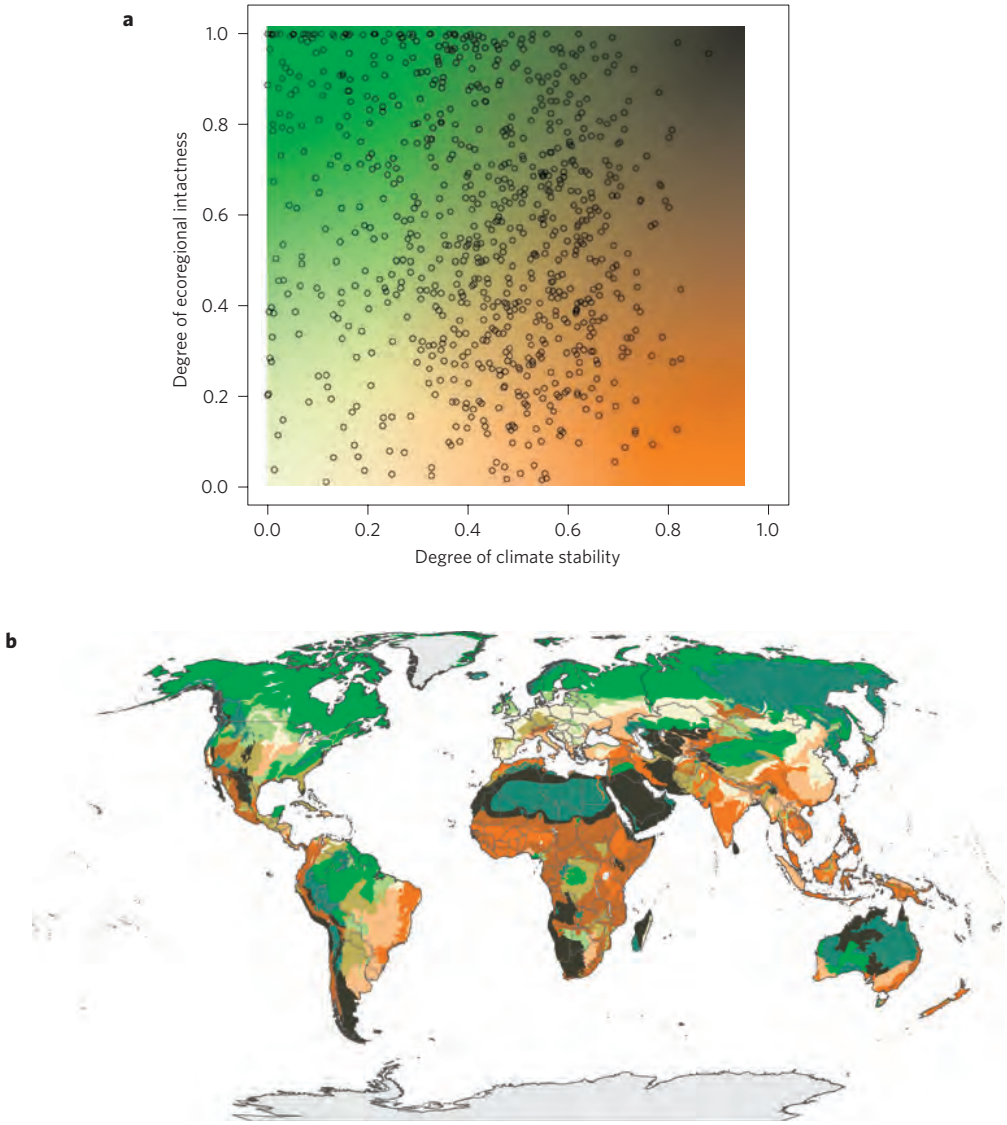

Figure 2 | The relationship between ecoregional climate stability and vegetation intactness. a,**b**, The relationship between ecoregional climate stability and mean ecoregional intactness ($n = 803$; **a**) and the global distribution of the relationship (**b**). Ecoregions that have high relative climate stability and high vegetation intactness are depicted as dark grey. Ecoregions that have relative high climate stability but low levels of vegetation intactness are depicted in dark orange. Ecoregions that have low relative climate stability but high vegetation intactness are depicted in dark green. Ecoregions that have both low relative climate stability and low levels of vegetation intactness are depicted in pale cream. The intactness axis has been transformed to a normal distribution for presentation purposes by taking the square root values. The colours match the map in **b** and are a combination of the colours in Fig. 1a,b.

future exposure to climate change with those that consider other elements of ecosystem vulnerability (that is, adaptive capacity and sensitivity). For example, when climate stability (as a measure of exposure) is combined with vegetation intactness (as a measure of adaptive capacity), ecoregions located in southwest, southeast and central Europe, India, China and Mongolia, southeast Asia, central North America, eastern Australia and eastern South America were found to be relatively climatically unstable and degraded (Fig. 2b and Supplementary Information). This contrasts sharply with other global assessments (based only on exposure to climate change) that show that central Africa, northern South America and northern Australia are most vulnerable to climate change[3,15,16].

There is strong evidence that climate change is negatively interacting with habitat loss and synergistically contributing to the degradation of biological diversity[17]. We identified, according to our model, ecoregions likely to be future hotspots for biodiversity loss when considering both present levels of landscape transformation and future climate change (Fig. 2b). Owing to their low levels of vegetation intactness and high levels of fragmentation, ecoregions expected to experience very different future climate will probably witness changes in their species assemblages due to loss of the habitat necessary for rapid dispersal or refugial retreat[18].

Beyond identifying future vulnerability based on present ecoregion intactness and climate stability, the approach outlined in this analysis, demonstrated using one scenario and time step, will be better able to help inform adaptation planning than previous global analyses, which assessed vulnerability based solely on predicted exposure to future climate[3,15,16]. By integrating present land use (ecoregional vegetation intactness) into climate change vulnerability assessments, we are able to provide a spatially explicit framework for different broad-scale management strategies and interventions[12] (Table 1 and Fig. 2). Highly intact ecoregions predicted to have a relatively stable climate are unlikely to contain a large suite of species that would require new and radical conservation interventions, such as translocations of species, before the middle of the present century. In these ecoregions, a focus on

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Table 1 | Examples of different conservation strategies aimed at increasing ecosystem adaptive capacity, based on the degree of ecoregional intactness and future relative climate stability.

Degree of ecoregional intactness and relative climate stability	Future of ecoregional biodiversity if present land use and non-climate change threats are abated	Example of appropriate ecoregional level science-based strategies, incorporating active adaptive management
High levels of vegetation intactness, high relative climate stability (grey in Fig. 2)	Low numbers of threatened and declining species Low turnover of species within ecoregion due to climate change Functioning ecological processes that will sustain adaptive capacity of species	Identify and manage present direct threats to ensure vegetation remains intact and functional to maintain populations of extant viable species Less emphasis on identifying and protecting/restoring climate refugia, as climate is stable Monitor extant viable species against present threatening processes
High levels of vegetation intactness, low relative climate stability (green in Fig. 2)	Low numbers of threatened and declining species High turnover of species within and beyond ecoregion as species track their climate niche Functioning ecological processes will allow some species to persist in changing climate but adaptive capacity of other species may be exceeded owing to degree of climate change: chance of extinction unless preventative action taken	Manage present direct threats to ensure vegetation is intact to maintain populations of species and their dispersal pathways as they track their climate niche and adapt to changing climate Emphasize the identification and protection of climate refugia Manage present direct threats to ensure vegetation is intact to allow emigrating populations of species to establish themselves Monitor potentially climate-sensitive species and feed this into translocation plans
Low levels of vegetation intactness, high relative climate stability (orange in Fig. 2)	High numbers of threatened and declining species Small turnover of species within ecoregion Reduction in the number of functioning ecological processes, which will severely impact the adaptive capacity of species	Identify and manage present direct threats to ensure vegetation does not lose even more intactness and function to maintain populations of extant viable species Habitat restoration activities aimed at connectivity to increase population size and dispersal capacity of these species. Monitor extant viable species against present threatening processes
Low levels of vegetation intactness, low relative climate stability (cream in Fig. 2)	High numbers of threatened and declining species High turnover of species within and beyond ecoregion as species track their climate niche Reduction in the number of functioning ecological processes, which will severely impact the adaptive capacity of species that may already be exceeded owing to degree of climate change	Manage present direct threats to intact vegetation to maintain populations of species and their dispersal pathways, as they track their climate niche and adapt to changing climate Habitat restoration activities aimed at connectivity to increase population size and dispersal capacity of extant viable species Emphasize the identification and protection of climate refugia Manage present direct threats to ensure vegetation is intact to allow emigrating populations of species to establish themselves Identify the species most vulnerable to climate change and assess translocation options Monitor potentially climate-sensitive species and feed this into translocation plans

management options (for example, the establishment of protected areas) that deal with present threatening processes (for example, invasive species, industrial logging) is sensible, as these processes are likely to have the most serious impact on biodiversity in the short and mid-term[1]. Within ecoregions that are highly intact but are predicted to have a very different climate to the one experienced today, it will be important to reduce threatening processes to ensure that species can take advantage of their capacity to adapt ecologically, albeit retreating to refugia, undergoing a range change as they track the climate, or exhibiting some form of phenotypic plasticity or micro-evolution[19]. However, it is not known how most species will respond to rapid climate change, and in intact but climatically unstable ecoregions, monitoring (linked with adaptation management protocols) is crucial, as it will inform

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practitioners which species are unlikely to cope with the changes, and are therefore candidates for more aggressive adaptive action (for example, translocation, *ex situ* conservation).

Conversely, in ecoregions that are highly degraded and are likely to have a very different future climate, a strategy that deals only with present threatening processes is short-sighted (Table 1). The identification of potentially vulnerable species and ecosystems in these ecoregions (despite the uncertainty involved) will probably lead to a greater chance of long-term conservation success. It may be appropriate to use a mixture of more proactive management strategies; such as species translocation[20], habitat engineering[6], and restructuring the priorities among conservation options[21]. In those ecoregions that are highly degraded but are predicted to be less affected by large baseline shifts in climatic conditions in the future, there is a need to strengthen efforts aimed at restoration and the removal of other threatening processes.

We do not advocate that no climate adaptation action should be carried out in those ecoregions considered to be relatively highly climatically stable. Indeed, climate change is occurring everywhere on the planet, and there remains large uncertainty around all climate models. All conservation planning must consider the impacts of future climate change: our adaptation matrix highlights the fact that land use and climate change are not spatially uniform and thus different adaptation priorities are needed for different places, depending on the degree of change they have experienced and are likely to experience in future. Although our present analyses are at the ecoregional level, this type of analysis is not limited to this scale (for example, see ref. 22 for a similar biome-scale, multi-thematic analysis). Indeed, as land use decisions are often made at landscape and local scales, and as species track climate change within an ecoregion, these types of assessment could be carried out at much finer scales and include local and regional climatology[23]. It is important to note that although there have been large improvements in climate models over the past decade, associated uncertainty remains high. The climate stability and landscape intactness analyses should be updated for future work as more accurate climate models, emission scenarios and global land use models become available and the analyses can be extended beyond the 2050s. Incorporation of some measure of vegetation change (related to the rate of land degradation), as a function of climate vulnerability, would add great value to future analyses, as such changes are driven by human demography and are very difficult to model.

As biodiversity disruption and loss increase along with intensified climate-change impacts, conservation planners need to move beyond focusing on the long-term future and only on elements of exposure to climate change. Within the context of conservation practice, vegetation intactness is more significant than climate stability for ecosystem vulnerability: in terms of ecosystem degradation or species extinctions, reduction in vegetation intactness is a greater threat than climate change at present, and is likely to be in future, especially in tropical regions[24]. This analysis takes account of the fact that conservation today proceeds in the context of pronounced, and in some places overwhelming, human influence. The development of effective conservation strategies needs to rely not only on improving the knowledge of how species and ecosystems will react to climate change, but also on predicting how humans are going to respond: conservation practitioners will have a much greater chance to influence the intactness of an ecosystem rather than its robustness to future climatic conditions (which can only be changed through international mitigation efforts), and therefore a focus on maintaining ecosystem integrity should always be a primary conservation objective.

Methods

Ecoregions are geographic units based on delineations in taxonomic compositions, inferred evolutionary histories, and shared climatic domains[25]. Here we used spatial information on ecoregional boundaries for the terrestrial ecoregions of the world[13]. Our analysis covered 803 ecoregions (97% of terrestrial ecoregions). The remaining 22 ecoregions were omitted from the analysis as they lacked sufficient GlobCover data or climate data points to conduct a statistically rigorous vegetation intactness assessment (for example, mangrove ecoregions).

Our definition of adaptive capacity relates purely to vegetation intactness, as we are concerned with ecosystem-scale vulnerability. We followed the approach of previous studies[8] and used a very conservative measure of the degree of vegetation intactness in an ecoregion, by quantifying the proportion of areas where native vegetation has been totally transformed through agricultural development and urbanization. This was achieved using the GlobCover data set, a global land cover model that provides land-cover classification[26]. We used GlobCover version 2.1, which has a spatial resolution of 300 m (ref. 27). The GlobCover data set comprises global terrestrial data that define 65 land cover types, categorized into Cultivated Terrestrial Areas and Managed Areas, Natural and Semi-natural Terrestrial Vegetation, Natural and Semi-natural Aquatic Vegetation, Artificial Surfaces and Associated Areas, and Inland Water Bodies. We excluded all areas classified as Cultivated Terrestrial Areas and Managed Lands, and Artificial Surfaces and Associated Areas, with the remaining cells within the ecoregion defined as intact. We then calculated the proportion of an ecoregion that contains these cells against the total number of cells within an ecoregion, and used this to calculate the total proportion of vegetation intactness of the ecoregion (hereafter referred to as ecoregional intactness).

We used a downscaled spatial data set for climate variables at the resolution of 2.5 arc min (approx. 4.6 km at the Equator). Observed spatial databases of bioclimatic variables for present climate were obtained from the WorldClim database[28], which provided 8.48 million data points across all of the ecoregions. From the 19 bioclimatic variables, six variables (annual mean temperature, mean diurnal temperature range, mean annual temperature range, annual precipitation, precipitation seasonality and precipitation of the driest quarter) were used to represent general climate patterns, seasonality, and limiting factors of climatic patterns based on global-scale research. Estimated spatial databases of the same climate variables for the 2050s were downloaded from the International Centre of Tropical Agriculture Downscaling data set[29]. This data set provides high-resolution maps for seven major global circulation models (GCMs) from the Intergovernmental Panel on Climate Change Fourth Assessment Report[30], A1b greenhouse gas emission scenario (see Supplementary Information for discussion). This scenario represents technology-focused rapid economic growth with mixed (fossil and non-fossil) fuel sources, and reflects present economic and developmental activity.

A relative climatic stability index was calculated using the recently introduced method for estimating the overlap between present and future climate envelopes for each ecoregion[4,14]. The two-dimensional envelopes were determined on the basis of the six bioclimatic variables from the present and future climate data sets using principal component analysis. The distribution of the probability density was estimated for each climate using kernel density estimation, where each cell value of the density space represents a unique vector of climatic condition[4]. The degree of overlap between present and future climate was estimated using a niche overlap measurement technique[4,14].

The climatic stability S_i of an ecoregion i was calculated for each of the seven GCMs as follows[4]:

$$S_i = 1 - \frac{1}{2}\left(\sum_{jk} |z_{1ijk} - z_{2ijk}|\right) \quad (1)$$

where z_{1ijk} and z_{2ijk} indicate the probability of climatic condition occurrence, and j and k refer to the cell corresponding to the jth and kth bins of the environmental variables of ecoregion i.

We used Spearman's ρ to run a correlation analysis for the two variables, climate stability and vegetation intactness. The vulnerability assessment for each ecoregion was derived by incorporating the two variables, and therefore includes any uncertainty related to the climate stability model. To understand the nature of the principal component analysis axes, the loadings of the bioclimatic variables were analysed (see Supplementary Information, Table S1 and Fig. S1a–c).

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Author contributions

J.E.M.W. and T.I. designed the analysis; J.E.M.W. and T.I. performed the analysis; J.E.M.W., T.I. and N.B. analysed the results and wrote the paper.

Additional information

Supplementary information is available in the online version of the paper. Reprints and permissions information is available online at www.nature.com/reprints. Correspondence and requests for materials should be addressed to J.E.M.W.

Competing financial interests

The authors declare no competing financial interests.

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**Note: Comments were received outside the scoping period.

From:	Stokes, Janelle S CIV USARMY CESWF (US)
To:	Lisa Vitale
Cc:	Klein, William P Jr CIV USARMY CEMVN (US)
Subject:	FW: [EXTERNAL] Sierra Club Questions and Concerns About the January 19, 2017 Corps Me eting on the Coastal Texas Protection and Restoration Feasibility Stud y
Date:	Thursday, February 16, 2017 9:12:12 AM
Attachments:	Corps Meeting Response Questions Letter 2017.doc Alternative for Galveston Bay 2016.doc

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-----Original Message-----
From: brandtshnfbt@juno.com [mailto:brandtshnfbt@juno.com]
Sent: Sunday, February 12, 2017 10:43 AM
To: CESWG-Coastal Texas <CoastalTexas@usace.army.mil>
Cc: brandtshnfbt@juno.com; elizabeth.spike@comcast.net; elmerz@hal-pc.org; frankblake@juno.com; kenwkramer@aol.com; dewayne.quertermous@sierraclub.org; reggie.james@sierraclub.org; cyrus.reed@sierraclub.org; eva.hernandez@sierraclub.org; ellenbuchanan@sbcglobal.net; annikadel@hotmail.com; rabblerouser@stx.rr.com
Subject: [EXTERNAL] Sierra Club Questions and Concerns About the January 19, 2017 Corps Me eting on the Coastal Texas Protection and Restoration Feasibility Stud y

Dear Sheri,

Attached you will find Sierra Club questions and concerns that originated from the Corps meeting on January 19, 2017 about the Coastal Texas Protection and Restoration Feasibility Study. You will also find attached a possible alternative that the Sierra Club would like the Corps to analyze with regard to this study. You will also be sent a hard copy of these documents with additional pages that deal with Artist Boat preserves in relation to our 15) concern in our letter. In the alternative provided, the Chocolate Bayou area is not covered because the Sabine to Galveston Study places Chocolate Bayou in the Freeport area alternative and not the Galveston area alternative.

The Sierra Club looks forward to hearing from the Corps about our questions and concerns and the possible alternative provided. Thank you.

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February 12, 2017

Ms. Sheri Willey
Project Manager
Coastal Texas Protection and Restoration Feasibility Study
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Dear Sheri,

The Houston Regional Group and Lone Star Chapter of the Sierra Club (Sierra Club) thanks you, Sharon Tirpak, and other Corps personnel for the January 19, 2017 meeting about the Coastal Texas Protection and Restoration Feasibility Study (CTPRFS). Coming out of that meeting, the Sierra Club has several questions or statements of concern it would like to Corps to respond to. These questions or statements of concern include:

1) The Corps mentioned that Section 4091, Water Resources Development Act of 2007, provides authorization for the CTPRFS. It is not clear how some alternatives, like those that use a coastal barrier (levee), are consistent with the Scope of Section 4091 for the "protection, conservation, and restoration of wetlands, barrier islands". For instance, barrier islands move and part of this movement is due to washover of soil to the bayside which creates marshes as well as wind moved sediments. The Sierra Club requests that the Corps explain how the use of a coastal barrier can result in the "protection, conservation, and restoration of wetlands, barrier islands" when it interferes with the coastal geological processes that maintain and protect the health and operation of a barrier island.

2) The Sierra Club requests that the Corps more clearly explain how the Corps can have analysis of the tentatively selected project (TSP) at a different level than other alternatives it will be compared against. This seems in contradiction to the National Environmental Policy Act's (NEPA) requirement, as elucidated in the Council on Environmental Quality's (CEQ) NEPA regulations/rules which states, **"Section 1502.14 Alternatives including the proposed action.** This section is the heart of the EIS … it should present the environmental impacts of the proposal and the alternatives in comparative form, thus sharply defining the issues and providing a clear basis for choice … (b) Devote substantial treatment

to each alternative considered in detail including the proposed action so that reviewers may evaluate their comparative merits".

3) During the presentation the statement was made that "some risk reduction features are ongoing by other Corps studies". The Sierra Club requests that the Corps clearly state which "risk reduction features" it refers to and identifies the Corps studies where these features are found.

4) During the presentation the Corps stated that it would "focus on significant resource areas". The Sierra Club requests that the Corps clearly state what these "significant resource areas" are and where they are located.

5) The Corps mentioned during the presentation that it would determine the "compatibility of storm surge projects and ecological restoration (ER) measures". The Corps stated it was concerned about interference with "key processes". The Sierra Club requests the Corps state how it will determine this "compatibility" between storm surge projects and ER measures and what "key processes" the Corps is concerned about with regard to "compatibility".

6) When is the Corps cut-off date for reception from persons, a group, or groups, of alternatives for the Corps to evaluate as "reasonable alternatives" or which have elements which could be incorporated into "reasonable alternatives"?

7) Will the Corps map "sensitive ecological areas" and then use these as criteria to avoid these areas as alternatives are prepared?

8) What ER projects and or alternatives is the Corps considering and where are they located?

9) The life of the CTPRFS has been given as 50 years even though the storm used for analysis purposes is 100 years. Texas A&M and Dutch consultants have stated that a levee should last 100 years and a gate should last 200 years. Will the Corps ensure that these disparate dates are aligned in the EIS and if not why?

10) The Sierra Club recommends that an independent scientific panel of ecologists, wildlife biologists, marine scientists, coastal geologists, oceanographers, and similar experts be used to review Corps alternatives and potential environmental impacts. **Since this is the first Mega-study that will be done by the Corps, additional, independent expertise would be helpful in determining local, area-wide, and regional environmental impacts that potentially may occur to "sensitive areas" due to each alternative.**

11) What level of residual storm surge will be protected against by the CTPRFS within Galveston Bay?

12) How will the Corps address reduction of protective effectiveness of a coastal barrier as time goes by? How will this be expressed in the EIS?

13) How will the Corps address location of areas that are the focus of storm surge protection and whether they should have different levels of protection based on the differences that each location has?

14) The Corps will use a Category 3 storm to determine protection from storm surge. How will Category 4 and 5 storms affect areas with the Category 3 storm surge protection?

15) The Sierra Club is concerned about the public and private protected lands that exist on or near Bolivar Peninsula and Galveston Island that may be affected by storm surge alternatives that include a "coastal barrier" like the "Ike Dike". Some of these public and private protected lands include:

1) **Houston Audubon Society** – McFarlane Marsh, North Deer Island Bird Sanctuary, Dos Vacas Muertas Bird Sanctuary, Boy Scout Woods Bird Sanctuary, Smith Oaks Bird Sanctuary, The Rookery at Smith Oaks, Eubank Woods Bird Sanctuary, S.E. Gast Red Bay Sanctuary, Bolivar Flats Shorebird Sanctuary, Mindy Marsh Bird Sanctuary, and Horseshoe Marsh Bird Sanctuary.

2) **Artist Boat** – Anchor Bay Tracts, Marquette Tracts, and Coastal Heritage Preserve

3) **Texas Parks and Wildlife Department** – Galveston Island State Park

4) **U.S. Fish and Wildlife Service** – Part of the Anahuac National Wildlife Refuge

The Corps must ensure that its alternatives and environmental analysis of these alternatives take these protected lands into account. The Corps should look at the impacts that all alternatives have on barrier island/peninsula ecological/geological processes like wind (aeolian) and water sediment movement processes, fragmentation of habitats and physical interference to the movement of animals, plants, and both non-game and game wildlife, long-term impacts to beaches and their use by Piping Plover and sea turtles, and other environmental impacts. Attached is the most recent press release which discusses the holdings that Artist Boat has on Galveston Island.

16) Attached is an alternative that the Sierra Club requests that the Corps use and analyze in its alternative process. This alternative covers all areas of Galveston Bay, is site specific in location, has measures that are adopted to each specific location, uses multiple barriers of defense, and uses natural features to the maximum extent possible as part of the protection and restoration goals of the CTPRFS.

The Sierra Club appreciates this opportunity ask these questions and express these concerns. The Sierra Club looks forward to hearing from the Corps soon. Thank you.

Sincerely,

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Alternative for Ecosystem Protection and Restoration, Storm Surge, Shoreline Erosion, and Climate Change for Galveston Bay

Galveston Bay is an important ecological area in the State of Texas. It is a 31 mile by 17 mile estuary and highly productive for shellfish (oysters and shrimp) and finfish (Spotted Sea Trout and Red Drum); has many recreational and tourist attractions (Clear Lake Area and Galveston Island); and is economic home to many oil, natural gas, pipeline, and petrochemical companies and facilities.

Living near Galveston Bay and the Gulf of Mexico (GOM) shorelines has its pitfalls. Too many people live in floodplains and storm surge zones. This results in property damage, injury, and death. There are ways to live in harmony with Galveston Bay and the GOM and avoid many of the impacts of hurricanes and storms. We have the information and technology to make sensible decisions about development on our hurricane-prone coast. The question is, do we have the political courage, foresight, and will.

If we take a step back we learn from and begin to understand that large, natural, storms (hurricanes) have their place in coastal human and natural ecosystems. The first principle for “living by the rules of the sea” is, “Work with, not against, Nature”.

Hurricanes are Nature's way of providing needed ecological change in our coastal and near-coastal ecosystems. Hurricanes drive natural ecological processes like erosion, deposition, and vegetative succession so we have changed, but healthy, ecosystems. The benefits of hurricanes are not just local or regional, but global. With a bit more knowledge we can avoid harm, assist ourselves, and protect Nature where hurricanes occur.

This document outlines an alternative which addresses ecosystem protection and restoration, storm surge, shoreline erosion, and climate change in Galveston Bay, nearby Gulf shorelines, and emphasizes “keeping people out of harm's way” and the protection of bay and shoreline ecosystems from human environmental impacts.

The Alternative

We have a personal choice whether to stay or leave from “harm's way.” We must exercise that responsibility appropriately and reasonably. We want every person to be kept out of “harm's way,” but not every structure can be protected. This alternative is based upon site-specific analysis of the ecosystems and human built environment at certain locations. This alternative is offered as a beginning and not an end. It is “organic” in nature and will change over time as more information, input, and feedback is given or made available.

Galveston Island and Bolivar Peninsula Area

Galveston Island is a barrier island and Bolivar Peninsula is a barrier peninsula. These natural geologic land-forms are the first barriers to wave, tide, wind, current, surge, and storm impacts. The goal is to keep these two geologic land-forms as intact as possible and allow their ecological processes to function as naturally and completely as possible.

Some of the ecological processes that must be protected and maintained include movement of barrier island/barrier peninsula toward the mainland, sedimentation, erosion, natural vegetation growth and succession, wind-blown (aeolian) sediment movement, and water-borne sediment movement.

The focus in these areas is to “keep people out of harm's way,” recreational and tourism activities, ecosystem restoration, and environmental protection. The focus is not on the protection of every structure, encouragement of denser development, and or greater population growth.

Elements or Measures

Elements or measures to address ecosystem protection and restoration, storm surge, shoreline erosion, and climate change are:

a. Approve the tightest development, building, and planning standards to “keep people out of harm's way”. This makes sense where large numbers of second, vacation, and rental homes exist.

b. Construct a ring-levee around the East End of Galveston Island where most of the population and road, water, sewage, tourism, and other infrastructure is located.

c. Implement a geo-hazards map ordinance which protects ecologically sensitive areas (for example, Houston Audubon Society sanctuaries and Galveston Island State Park) and geologically risky features (like hurricane wash-over areas) from being built on.

d. Inventory, map, protect, and maintain existing sensitive ecosystems that may resist, protect, and detain flood waters and other storm impacts. These ecosystems include sand dunes, coastal prairie, oyster reefs, and marshes, for example at Houston Audubon Sanctuaries, Anahuac National Wildlife Refuge, Galveston Beach Pocket Parks, East Galveston Bay, Artist Boat Preserves, Big Reef, and Galveston Island State Park.

e. Acquire, create, or enhance new or existing sensitive ecosystems that may resist, protect, and detain flood waters and other storm impacts like sand dunes, coastal prairie, oyster reefs, and marshes.

f. Local, state, and federal buy-outs (planned withdrawal) of properties (residential, commercial, etc.) at fair market value that allow owners to remove themselves “from harm's way”. The structures on these properties will be removed and the properties will become natural ecological or flood storage areas.

g. When necessary, use sand to supplement natural beach and sand dune ecosystems.

h. Planning for Galveston Island and Bolivar Peninsula that extends 100 years into the future, is implemented in periodic phases over time due to sea level rise and other climate change impacts, and may include stronger and or more frequent hurricanes, increased numbers and frequencies of heavy rain events, and additional barrier island, sand dune, and beach erosion and sedimentation.

i. The acquisition of land buffers for national wildlife refuges, state parks, natural shorelines, beaches, sand dunes, coastal prairies, and salt marshes. This allows these landscapes to migrate toward the mainland as sea level rises.

j. Do not interfere with the coastal sediment budget/movement system which includes wind-blown and wave-moved sand and sediments on barrier islands/peninsulas. Do not fragment landscapes so that healthy coastal ecosystems with natural populations of animals and plants are retained.

k. Increased and better coordinated emergency and evacuation planning, equipment acquisition, and implementation.

l. Planning efforts should include the retention and protection of existing Galveston Bay and GOM views/vistas. These are important recreational, spiritual, and economic resources that must be preserved.

The Houston Ship Channel Area

The Houston Ship Channel Area is important internationally, nationally, regionally, state-wide, and locally due to the oil refining, petrochemical, and shipping infrastructure and due to jobs and residential and commercial areas that service this industrial area.

The focus is on protection of this infrastructure and the communities that support and depend on it, protection of Buffalo Bayou and San Jacinto River water quality and ecological health, “keeping people out of harm's way”, and protection of community cohesion and health.

Elements or Measures

Elements or measures to address ecosystem protection and restoration, storm surge, shoreline erosion, and climate change are:

a. Create a levee district (by the Texas Legislature) which will prepare and implement a plan to protect the Houston Ship Channel, fence-line communities, and the oil, natural gas, refinery, petrochemical, and other facilities that exist in this area. The levee district will be represented by a number of entities and the public including Harris County, City of Houston, Port of Houston, Pasadena, Galena Park, Deer Park, East Harris County Manufacturers' Association, local residential communities, residents, and others.

b. Conduct a risk assessment of all existing industrial and other levees and other storm surge and flood protection structures to determine where weaknesses are and how they can be reduced or eliminated. Implement changes in conjunction with preparation of the plan mentioned in a. above

c. Conduct a risk assessment of all existing storage tanks and units that use toxic materials to determine where weaknesses are and how they can be reduced or eliminated. Implement changes in conjunction with preparation of the plan mentioned in a. above. Solutions include individual levees, removal of vulnerable storage tanks or other units, use of materials for storage tanks that are more protective or stronger to withstand flooding and storm surge impacts, replacement of more toxic chemicals with less harmful ones, etc. Implementation of this element will reduce the risk of spills and damage if spills occur from storage tanks and individual units.

d. Local, state, and federal buy-outs (planned withdrawal) of properties (residential, commercial, etc.) at fair market value that allow owners to remove themselves “from harm's way”. The structures on these properties will be removed and the properties will become natural ecological or flood storage areas.

e. Inventory, map, protect, and maintain existing sensitive ecosystems that may resist, protect, and detain flood waters and other storm impacts. These sensitive ecosystems include marshes, bays, and riverine forests, for example at Buffalo Bayou, Old River, Lake Sandy, Bear Lake, Grennel Slough, Whites Lake, San Jacinto Monument State Park, and San Jacinto River.

f. Acquire, create, or enhance new or existing sensitive ecosystems that may resist, protect, and detain flood waters and other storm impacts like marshes, bays, and riverine forests.

g. Approve the tightest development, building, and planning standards to “keep people out of harm's way”.

h. Increased and better coordinated emergency and evacuation planning, equipment acquisition, and implementation.

i. Planning that extends 100 years into the future, is implemented in periodic phases over time due to sea level rise and other climate change impacts, and may include stronger and or more frequent hurricanes, increased numbers and frequencies of heavy rain events, and additional erosion and sedimentation.

The NASA/Clear Lake Area

The NASA/Clear Lake Area has scientific, educational, and quality of life importance with the presence of National Atmospheric and Space Administration (NASA) Johnson Space Center, University of Houston Clear Lake, boating/sailing infrastructure and use, tourism, Clear Lake, Clear Creek, Armand Bayou Coastal Preserve, and many residential neighborhoods.

The focus is on the protection of these scientific, educational, and quality of life neighborhoods, Armand Bayou Coastal Preserve, and other recreational, tourist, and ecological locations.

Elements or Measures

Elements or measures to address ecosystem protection and restoration, storm surge, shoreline erosion, and climate change are:

a. Construct a levee(s) and or gate(s) to protect the NASA/Clear Lake Area.

b. Local, state, and federal buy-outs (planned withdrawal) of properties (residential, commercial, etc.) at fair market value that allow owners to remove themselves “from harm's way”. The structures on these properties will be removed and the properties will become natural ecological or flood storage areas.

c. Inventory, map, protect, and maintain existing sensitive ecosystems that may resist, protect, and detain flood waters and other storm impacts. These sensitive ecosystems include coastal prairies, marshes, and riverine forests, for example Armand Bayou Coastal Preserve, Clear Lake, Clear Creek, Bay Area Park, and Taylor Bayou.

d. Acquire, create or enhance new or existing sensitive ecosystems that may resist, protect, and detain flood waters and other storm impacts like coastal prairies, marshes, and riverine forests.

e. Approve the tightest development, building, and planning standards to “keep people out of harm's way”.

f. Increased and better coordinated emergency and evacuation planning, equipment acquisition, and implementation.

g. Planning that extends 100 years into the future, is implemented in periodic phases over time due to sea level rise and other climate change impacts, and may include stronger and or more frequent hurricanes, increased numbers and frequencies of heavy rain events, and additional erosion and sedimentation.

Texas City/La Marque/Hitchcock Area

The Texas City/LaMarque/Hitchcock Area has important industrial, recreational, and residential areas along Galveston Bay's west and south sides.

The focus is to protect these areas, allow natural ecosystems to continue to function, and “keep people out of harm's way”.

Elements and Measures

Elements or measures to address ecosystem protection and restoration, storm surge, shoreline erosion, and climate change are:

a. Strengthen, improve, and increase the height of the existing Texas City Levee.

b. Local, state, and federal buy-outs (planned withdrawal) of properties (residential, commercial, etc.) at fair market value that allow owners to remove themselves “from harm's way”. The structures on these properties will be removed and the properties will become natural ecological or flood storage areas.

c. Inventory, map, protect, and maintain existing sensitive ecosystems that may resist, protect, and detain flood waters and other storm impacts. These sensitive ecosystems include coastal prairies, marshes, and bays, for example Virginia Point, Dickinson Bayou, Dickinson Bay, The Nature Conservancy Texas City Preserve, Moses Lake, Dollar Bay, Jones Bay, Texas City Dike, and Swan Lake.

d. Acquire, create or enhance new or existing sensitive ecosystems that may resist, protect, and detain flood waters and other storm impacts like coastal prairies, marshes, and bays.

e. Approve the tightest development, building, and planning standards to “keep people out of harm's way”.

f. Increased and better coordinated emergency and evacuation planning, equipment acquisition, and implementation.

g. Planning that extends 100 years into the future, is implemented in periodic phases over time due to sea level rise and other climate change impacts, and may include stronger and or more frequent hurricanes, increased numbers and frequencies of heavy rain events, and additional erosion and sedimentation.

West Side of Galveston Bay

This area consists of many smaller communities or cities. Some have substantial industrial development, like La Porte, and some are mostly residential, like Shoreacres.

The focus is to “keep people out of harm's way” in small communities and cities.

Elements or Measures

Elements or measures to address ecosystem protection and restoration, storm surge, shoreline erosion, and climate change are:

a. The construction of local levees may be possible. However, many people want to retain the Galveston Bay vistas/views that they enjoy.

b. Local, state, and federal buy-outs (planned withdrawal) of properties (residential, commercial, etc.) at fair market value that allow owners to remove themselves “from harm's way”. The structures on these properties will be removed and the properties will become natural ecological or flood storage areas.

c. Inventory, map, protect, and maintain existing sensitive ecosystems that may resist, protect, and detain flood waters and other storm impacts. These sensitive ecosystems include coastal prairies, marshes, and bays, for example, Sylvan Beach Park and Seabrook Wildlife Park.

d. Acquire, create or enhance new or existing sensitive ecosystems that may resist, protect, and detain flood waters and other storm impacts like coastal prairies, marshes, and bays.

e. Approve the tightest development, building, and planning standards to “keep people out of harm's way”.

f. Increased and better coordinated emergency and evacuation planning, equipment acquisition, and implementation.

g. Planning that extends 100 years into the future, is implemented in periodic phases over time due to sea level rise and other climate change impacts, and may include stronger and or more frequent hurricanes, increased numbers and frequencies of heavy rain events, and additional erosion and sedimentation.

The San Luis Pass/Christmas Bay Area

The San Luis Pass/Christmas Bay Area is one of the most natural ecosystems left in Galveston Bay. The human population is relatively low in this area.

The focus is the protection and enhancement of the natural ecosystems in this area and to “keep people out of harm's way”.

Elements or Measures

Elements or measures to address ecosystem protection and restoration, storm surge, shoreline erosion, and climate change are:

a. Local, state, and federal buy-outs (planned withdrawal) of properties (residential, commercial, etc.) at fair market value that allow owners to remove themselves “from harm's way”. The structures on these properties will be removed and the properties will become natural ecological or flood storage areas.

b. Inventory, map, protect, and maintain existing sensitive ecosystems that may resist, protect, and detain flood waters and other storm impacts. These sensitive ecosystems include coastal prairies, marshes, and bays, for example, Christmas Bay, Drum Bay, Bastrop Bay, Oyster Bay, West Bay, and San Luis Pass.

c. Acquire, create or enhance new or existing sensitive ecosystems that may resist, protect, and detain flood waters and other storm impacts like coastal prairies, marshes, and bays.

d. Approve the tightest development, building, and planning standards to “keep people out of harm's way”.

e. Increased and better coordinated emergency and evacuation planning, equipment acquisition, and implementation.

f. When necessary, use sand to supplement natural beach and sand dune ecosystems.

g. Planning that extends 100 years into the future, is implemented in periodic phases over time due to sea level rise and other climate change impacts, and may include stronger and or more frequent hurricanes, increased numbers and frequencies of heavy rain events, and additional erosion and sedimentation.

The Baytown Area

The Baytown Area has one of the largest refineries in the world, petrochemical facilities, and the City of Baytown. Cedar Bayou and many bays are in the area.

The focus is to protect the refinery and petrochemical complex, existing residential neighborhoods, and the Galveston Bay system.

Elements or Measures

Elements or measures to address ecosystem protection and restoration, storm surge, shoreline erosion, and climate change are:

a. Construct a levee that supplements current refinery and petrochemical complex levee systems and efforts to reduce or eliminate spills of toxic chemicals.

b. Conduct a risk assessment of all existing industrial and other levees and other storm surge and flood protection structures to determine where weaknesses are and how they can be reduced or eliminated. Implement changes in conjunction with a. above

c. Conduct a risk assessment of all existing storage tanks and units that use toxic materials to determine where weaknesses are and how they can be reduced or eliminated. Implement changes in conjunction with preparation of a. above. Solutions include individual levees, removal of vulnerable storage tanks or other units, use of materials for storage tanks that are more protective or stronger to withstand flooding and storm surge impacts, replacement of more toxic chemicals with less harmful ones, etc. Implementation of this element will reduce the risk of spills and damage if spills occur from storage tanks and individual units.

d. The construction of local levees may be possible. However, many people want to retain the Galveston Bay vistas/views that they enjoy.

e. Local, state, and federal buy-outs (planned withdrawal) of properties (residential, commercial, etc.) at fair market value that allow owners to remove themselves “from harm's way”. The structures on these properties will be removed and the properties will become natural ecological or flood storage areas.

f. Inventory, map, protect, and maintain existing sensitive ecosystems that may resist, protect, and detain flood waters and other storm impacts. These sensitive ecosystems include coastal prairies, marshes, and bays, for example, Baytown Nature Center, Cedar Bayou, Black Duck Bay, Scott Bay, Tabbs Bay, Ash Lake, Ijams Lake, and Burnett Bay.

g. Acquire, create or enhance new or existing sensitive ecosystems that may resist, protect, and detain flood waters and other storm impacts like coastal prairies, marshes, and bays.

h. Approve the tightest development, building, and planning standards to “keep people out of harm's way”.

i. Increased and better coordinated emergency and evacuation planning, equipment acquisition, and implementation.

j. Planning that extends 100 years into the future, is implemented in periodic phases over time due to sea level rise and other climate change impacts, and may include stronger and or more frequent hurricanes, increased numbers and frequencies of heavy rain events, and additional erosion and sedimentation.

East Side of Galveston Bay

The communities or cities of Anahuac, Oak Island, and Smith Point exist in an agricultural or natural landscape that includes the Trinity River Delta, East Galveston Bay, Smith Point, and oyster reefs, coastal prairie, and marshes.

The focus is to protect this rural area, existing natural ecosystems, and to prevent over-development and heavy population increase which puts more people “in harm's way”.

Elements or Measures

Elements or measures to address ecosystem protection and restoration, storm surge, shoreline erosion, and climate change are:

a. Local, state, and federal buy-outs (planned withdrawal) of properties (residential, commercial, etc.) at fair market value that allow owners to remove themselves “from harm's way”. The structures on these properties will be removed and the properties will become natural ecological or flood storage areas.

b. Inventory, map, protect, and maintain existing sensitive ecosystems that may resist, protect, and detain flood waters and other storm impacts. These sensitive ecosystems include coastal prairies, marshes, riverine forests, oyster reefs, and bays, for example, Candy Abshier Wildlife Management Area, Smith Point, and Anahuac National Wildlife Refuge.

c. Acquire, create or enhance new or existing sensitive ecosystems that may resist, protect, and detain flood waters and other storm impacts like coastal prairies, marshes, riverine forests, oyster reefs, and bays.

d. Approve the tightest development, building, and planning standards to “keep people out of harm's way”.

e. Increased and better coordinated emergency and evacuation planning, equipment acquisition, and implementation.

f. Planning that extends 100 years into the future, is implemented in periodic phases over time due to sea level rise and other climate change impacts, may include stronger and or more frequent hurricanes, increased numbers and frequencies of heavy rain events, and additional erosion and sedimentation.

Proceed Carefully and Engage in Detailed Community Discussions

Attempts to move forward on storm surge suppression have been plagued by the lack of appropriate transparency for actual economic, social, and environmental impacts of alternatives. This is not good for the public or for Galveston Bay, which may be permanently degraded due to proposals.

What has been proposed is that nature should be protected from nature. The so-called natural disaster of a hurricane is exactly that for people who have built in places that are vulnerable to storms. People have been warned about this “natural disaster” for decades and want the government to subsidize their decision to put themselves, with the approval and help of local government and developers, in “harm's way.”

Unfortunately, this is what has happened: humans, instead of keeping out of “harm's way” and allowing natural processes to work, want to interfere, manipulate, and stabilize an inherently dynamic and ever-changing set of natural processes. Over the long-term this will not work for humans or coastal ecosystems.

We need a planning process that takes into account that coastal areas are vulnerable to storms. We must determine whether development contradicts **“The Rules of the Sea**” which include:

1) The coastal zone is unique and requires unique management strategies.

2) Coastal physical processes must be identified and understood from a whole-island perspective.

3) Property damage potential is site-specific and each site is different.

4) Property damage mitigation must be from a whole-island perspective.

5) Relative risk areas can be recognized on the basis of well-defined criteria.

6) All coastal hazard evaluation and mitigation must consider a rising sea level.

7) Repair alterations due to development.

8) Conserve sand.

9) Conserve vegetation cover.

10) Conserve land-forms. 9

We can then use these rules to review coastal development proposals using the following criteria:

1) Wide beaches protect property.

2) Dunes protect property.

3) Vegetation protects property.

4) Shore-perpendicular roads act as overwash and storm-surge ebb conduits.

5) Notches in dunes create overwash passes.

6) Overwash and storm-surge ebb are intensified when funneled by structures.

7) Seawalls can protect buildings, but they also can cause beaches to narrow, which reduces both recreation and storm protection value.

8) Setbacks protect.

9) Elevation protects.

10) Proper community governance offers a degree of self-protection. 9

We must look at development from a coastal processes approach. This requires that:

1) Hazards must be evaluated based on an understanding of coastal physical processes from a geologic point of view.

2) Recognition of hazard areas is imperative.

3) Approaches to property damage mitigation must be taken in recognition of the fact that sea level is rising.

4) Alterations of island environments due to development should be repaired and restored to the natural setting.

5) Island sand volume should be augmented or at least maintained.

6) Potential for property damage must be recognized as both site specific and regional in character.

7) The entire coastal zone (an entire island, for example) must be considered when applying mitigation plans. 9

We must assess, evaluate, and analyze the need for development using **"Truths of the shoreline":**

1) There is no erosion problem until a structure is built on a shoreline.

2) Construction by people on the shoreline causes shoreline changes.

3) Shoreline engineering protects the interests of a very few, often at a very high cost in federal and state dollars.

4) Shoreline engineering destroys the beach it was intended to save.

5) The cost of saving beach property through shoreline engineering is usually greater than the value of the property to be saved.

6) Once you begin shoreline engineering you can't stop using it. 10

Finally, development should be assessed using the following hazards, economics, and political criteria:

1) Development sites are chosen on the basis of market forces, not nature's forces.

2) In old developments residents learned from experience: low-risk sites tended to be developed first, leaving high-risk sites/areas to accommodate growth.

3) Politicians, and/or the political pressures to which they react, are oriented toward giving priority to economic development/management, not protecting inhabitants.

4) Protective regulations to reduce natural hazards are often viewed as threatening to developers, as well as some property owners.

5) Politicians are drawn from the economic community.

6) Politicians are the employers, while the day-to-day work is carried out by the employees: the hired town manager, planner, and community development personnel.

7) When disasters do strike, we depend on firefighters and police as our first line of defense.

8) Collective community attitudes are widely variable.

9) Developers are in business to make money, not to protect the public.

10) Banks and other lenders do have a stake in property mortgages.

11) Catastrophes often set the stage for bigger catastrophes.

12) The levels of management, regulation, and politics are as diverse as the communities and hazards. 9

If development makes sense after considering all of these criteria, then use a **four-step process** to determine if mitigation of the proposal makes sense. This process entails:

1) Understand the physical processes (the hazards).

2) Map zones of relative risk of property damage caused by these processes.

3) Develop site-specific (non-structural) property damage mitigation techniques.

4) Implement mitigation techniques. 9

"Living with the rules of the sea", reflects the same philosophy as **"Work with, and not against, Nature".** Our purpose should be to "Keep people out of harm's way" and retain our natural coast and ecosystems so that they are not further damaged by human manipulation. If we practice this philosophy then we can weather hurricanes and enjoy our coastal heritage.

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Appendix G-5

Distribution List

The following is a list of agencies, organizations, and persons to whom copies of the Notice of Availability for the Draft Integrated Feasibility Report/Environmental Impact Statement was sent. The document will be available for review on the USACE, Galveston District website (www.swg.usace.army.mil/) and compact disc copies of the report will be available on request.

Federal, State and Local Government Representatives	
Senator John Cornyn	Senator Ted Cruz
Representative Gene Green	Senatorial Candidate Beto O'Rourke
Representative Randy Weber	Representative Sheila Jackson Lee
Representative Candidate Adrienne Bell	Representative Candidate Ava Pate
Representative Pete Olson	Representative Brian Babin
Representative Candidate Sri Preston Kulkarni	Representative Candidate Dayna Steele
Alabama-Coushatta Tribe of Texas	Representative Candidate Letitia Plummer
Coushatta Tribe of Louisiana	Comanche Indian Tribe
Tonkawa Tribe of Indians of Oklahoma	Mescalero Apache Tribe
State Representative Dade Phelan	Kiowa Indian Tribe of Oklahoma
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State Representative Greg Bonnen	State Representative Joe Deshotel
State Representative Ed Thompson	State Representative Candidate Dick Illyes
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State Representative Candidate Daniel Espinoza	State Representative Carol Alvarado
State Senator Candidate Rita Lucido	State Senator Larry Taylor
State Senator Brandon Creighton	State Senator Sylvia Garcia
State Senator Candidate Lauren LaCount	State Senator Joan Huffman
Brazoria County Commissioner Precinct1	Brazoria County Judge
Brazoria County Commissioner Precinct 3	Brazoria County Commissioner Precinct.2
Brazoria County Flood Plain Management	Brazoria County Commissioner Precinct.4
Brazoria Drainage District No. 4	Director, Brazoria County Health Department
Chambers County Commissioner Precinct 1	Chambers County Judge
Chambers County Commissioner Precinct 3	Chambers County Commissioner Precinct 2
Chambers County, County Engineer	Chambers County Commissioner Precinct 4
Chambers County Environmental Protection	Chambers County Parks Department
Chambers-Liberty Counties Navigation Dist.	Chambers County Historical Commission
Galveston County Judge	Galveston County Commissioner Precinct 1
Galveston County Commissioner Precinct 3	Galveston County Commissioner Precinct 2
Galveston County Consolidated Drainage Dist.	Galveston County Commissioner Precinct 4
Harris County Judge	Harris County Commissioner Precinct 1
Harris County Commissioner Precinct 3	Harris County Commissioner Precinct 2
Director Harris County Flood Control District	Harris County Commissioner Precinct 4
Jefferson County Judge	Jefferson County Commissioner Precinct 1
Jefferson County Commissioner Precinct 3	Jefferson County Commissioner Precinct 2
Jefferson County Engineer	Jefferson County Commissioner Precinct 4
Orange County Judge	Jefferson County Drainage District No. 7
Orange County Commissioner Precinct 2	Orange County Commissioner Precinct 1

Orange County Commissioner Precinct 4
Orange County Commissioner Precinct 3
Orange County
Pleasure Island Commission
Orange County Navigation and Port Dist.
Orange County Drainage District
Matagorda County Judge
Orange Economic Development Corp
Matagorda County Commissioner Precinct 2
Matagorda County Commissioner Precinct 1
Matagorda County Commissioner Precinct 4
Matagorda County Commissioner Precinct 3
Matagorda County Emergency Management Coordinator

Jackson County Judge
Jackson County Commissioner Precinct 2
Jackson County Commissioner Precinct 1
Jackson County Commissioner Precinct 4
Jackson County Commissioner Precinct 3
Jackson County Navigation and Port District
Jackson County Emergency Management Coordinator
Cameron County Judge
Cameron County Drainage District
Cameron County Commissioner Precinct 2
Cameron County Commissioner Precinct 1
Cameron County Commissioner Precinct 4
Cameron County Commissioner Precinct 3
Victoria County Judge
Cameron County Emergency Management Coordinator
Victoria County Commissioner Precinct 2
Victoria County Commissioner Precinct 1
Victoria County Commissioner Precinct 4
Victoria County Commissioner Precinct 3
Calhoun County Judge
Victoria County Emergency Management Coordinator
Calhoun County Commissioner Precinct 2
Calhoun County Commissioner Precinct 1
Calhoun County Commissioner Precinct 4
Calhoun County Commissioner Precinct 3
Aransas County Judge
Calhoun County Emergency Management Coordinator
Aransas County Commissioner Precinct 2
Aransas County Commissioner Precinct 1
Aransas County Commissioner Precinct 4
Aransas County Commissioner Precinct 3
Refugio County Judge
Aransas County Emergency Management Coordinator
Refugio County Commissioner Precinct 2
Refugio County Commissioner Precinct 1
Refugio County Commissioner Precinct 4
Refugio County Commissioner Precinct 3
San Patricio County Judge
Refugio County Emergency Management Coordinator
San Patricio County Commissioner Precinct 2
San Patricio County Commissioner Precinct 1
San Patricio County Commissioner Precinct 4
San Patricio County Commissioner Precinct 3
San Patricio County Emergency Management Coordinator

Kleberg County Judge
Kleberg County Commissioner Precinct 2
Kleberg County Commissioner Precinct 1
Kleberg County Commissioner Precinct 4
Kleberg County Commissioner Precinct 3
Willacy County Judge
Kleberg County Emergency Management Coordinator
Willacy County Commissioner Precinct 2
Willacy County Commissioner Precinct 1
Willacy County Commissioner Precinct 4
Willacy County Commissioner Precinct 3
Nueces County Judge
Willacy County Emergency Management Coordinator
Nueces County Commissioner Precinct 2
Nueces County Commissioner Precinct 1
Nueces County Commissioner Precinct 4
Nueces County Commissioner Precinct 3
Nueces County Engineer
Nueces County Emergency Management Coordinator
Kenedy County Commissioner Precinct 1
Kenedy County Judge
Kenedy County Commissioner Precinct 3
Kenedy County Commissioner Precinct 2
Port of Beaumont, Director Corporate Affairs
Kenedy County Commissioner Precinct 4
Port of Beaumont, Port Director
Port of Beaumont, Deputy Port Director
Port of Galveston, Sr. Executive Manager
Port of Galveston, Port Director
Port Freeport, Port Director
Port Isabel-San Benito Navigation District
Port of Houston Authority, Executive Director
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Port of Houston Authority, Emergency Mgmt.
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Port of Beaumont Navigation District of Jefferson County
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Matagorda County Navigation District No. 1
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Victoria County Navigation
Guadalupe-Blanco River Authority
Bandera County River Authority
Lavaca-Navidad River Authority
Lower Neches River Authority
San Antonio River Authority
Upper Colorado River Authority
U.S. Coast Guard, Corpus Christi
U.S. Coast Guard, Freeport
U.S. Coast Guard, Port Arthur
Las Palomas WMA, Lower Rio Grande Valley Units
Atkinson Island WMA
Candy Cain Abshier WMA
Guadalupe Delta WMA
Guadalupe Delta WMA
J.D. Murphree WMA
Justin Hurst WMA
Las Palomas WMA, Lower Rio Grande Valley Units
Anahuac NWRS
Aransas NWRS
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Mission Aransas National Estuary
National Marine Fisheries Service - SERO

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Port of Port Isabel, Port Director
Port of Victoria, Executive Director
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Port of Bay City Authority
Brownsville Navigation District
Brazos River Harbor Navigation District of Brazoria County
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Willacy County Navigation District
Texas City Terminal Railway Company
West Side Calhoun County Navigation District
Angelina-Neches River Authority
Brazos River Authority
Lower Colorado River Authority
Sabine River Authority
Trinity River Authority
U.S. DOE Bryan Mound
U.S. Coast Guard, Houston/Galveston
U.S. Coast Guard, Port Aransas
U.S. Coast Guard, Texas City
Lower Neches WMA
Mad Island
Matagorda Island WMA
Nannie M. Stringfellow WMA
Redhead Pond
Tony Houseman WMA
Welder Flats WMA
McFaddin NWRS
Neches River NWRS
San Bernard NWRS
Santa Ana NWRS
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San Jacinto Battleground State Park
Sea Rim State Park
Sheldon Lake State Park
Stephen F. Austin State Park
Village Creek State Park
Texas Department of Transportation
Texas Department of Transportation Maritime Div.
Texas General Land Office
Texas Historical Commission
Texas Parks and Wildlife Department
Texas Water Development Board
U.S. Department of Agriculture

National Park Service
National Resource Conservation Service
NOAA's Office of National Marine Sanctuaries
Texas Commission on Environmental Quality
Brazos Pilots Association
Galveston-Texas City Pilots Association
Gulf Intracoastal Canal Association
Anahuac Chamber of Commerce
Aransas Pass Chamber of Commerce
Bay City Chamber of Commerce
Bay Town Chamber of Commerce
Bolivar Peninsula Chamber of Commerce
Brazoria Chamber of Commerce
Brazosport Area Chamber of Commerce
Cedar Lake Area Chamber of Commerce
Clear Lake Area Chamber of Commerce
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Friendswood Chamber of Commerce
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La Porte-Bayshore Chamber of Commerce
Lamar County Chamber of Commerce
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North Channel Area Chamber of Commerce
North Galveston County Chamber of Commerce
Palacios Chamber of Commerce
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Mayor of Aransas Pass
Mayor of Austwell
Mayor of Bay City
Mayor of Bayou Vista
Mayor of Bayside
Mayor of Baytown
Mayor of Beach City
Mayor of Brazoria
Mayor of Corpus Christi
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Mayor of Fulton
Mayor of Gregory
Mayor of Hitchcock
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Mayor of Jones Creek
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U.S. Maritime Administration
Houston Pilot Board
Maritime Administration
Military Sealift Command
Navy Salvage SUPSALV
Pasadena Chamber of Commerce
Port Aransas Chamber of Commerce
Port Isabel Chamber of Commerce
Port Lavaca Chamber of Commerce
Port O'Connor Chamber of Commerce
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Seadrift Chamber of Commerce
South Padre Island Chamber of Commerce
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Texas City - La Marque Chamber of Commerce
The Comfort Chamber of Commerce
Tiki Island Chamber of Commerce
United Corpus Christi Chamber of Commerce
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Mayor of Lake Jackson
Mayor of League City
Mayor of Oyster Creek
Mayor of Palacios
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Mayor of Port Comfort
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Mayor of Raymondville
Mayor of Rockport
Mayor of Santa Fe
Mayor of Seadrift
Mayor of South Padre Island
Mayor of Surfside Beach
Mayor of Sweeny
Mayor of Texas City
Mayor of Tiki Island
Mayor of Webster

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Alattar, Farouk H. and Rima S.
Allen, O.K.
Altair Development
Altemus, David, A.
Anderson, Blythe
Anderson, Mary C.
Andre, John
Ann Hedge-Carruthers Living Trust
Argue, Lila M.
Armstrong Holden Properties
Arnold, David and Constance H.
Athanasiou, J.P.
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Atkinson, Linda Marie
Aycock, J.C. Est and Norma L.M.
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Bahr, Alfred William
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Birdwell, Robert R.
Bitner, William Paul
Black Point Huntin. Partnership
Black, S.R.
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Blume, Jack, Jr. and John
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Bolivar Unlimited LLC
Bolivar Vanguard Ltd
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Madden, Michael W. and Mary H.
Maloney, Charles and Marjorie
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Markman, Jack M.
Marwill, Meredith Exec. Trust
Mason, Charles Jr.
Matthews, Michele Mignon
Maxwell, Scott and Carrie
Mccarthy, Mary
Mccartney, Mary Jane Lewis
Mccray, Russell III
Mcdonald, Dominic D.
Mcginnes Industrial Maint. Corp.
Mckeller, Jerry P.
Mcneese, Thomas Dwyer Individually and Trustee
Mcneill, Barbara Gordon
Mecom, John W. EST
Medders, Terry
Medina Fish LLC
Merendino, Irene
Metz, Craig Ralph and Doraldina
Miley, Jason
Mitchell, A.G. (Estate)
Mitchell, Robert P. and Rita Marie Estate
Mmmd Properties. Inc.
Moody, Forest B.
Moore, Alan S.
Moore, James S. and Rose Marie
Moore, Wendy Lea
Moorhouse, Michael M.
Morgan, Glen
Morgan, Glen W. and Teri
Morris, Vernon and Ginger
Mouton, Mitchell L.
Mp Partners Ltd.
Murphy, Patrick L. and Mildred M.
Nelson, Walter L.
Nevill, Margaret S. and Robert Stewart
Nextlots Now LLC
Nguyen, Tien
Noble, David
Nored, Jimmy Don
Owen, Miriam Blocker
Parker, Robert A. and Teresa D.
Parrish, Dennis J. and Wilma

Bonanza Corp. The
Bond, Gertrude G.
Bourret, James Philip
Bouse, Levi
Boyett, James and Helen Aliene
Boyles, Howard
Boyt, Sue B.
Bp America Production Co.
Brackin, Ursula Dean
Bradford, Lance W.
Brady, Adelaide B Trustee
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Brunner, Nancy and Glenn
Bryan, J.P. Est
Bryce Family Partnership
Buckner, William and Jennifer Yocham
Burcaw, Rodney Wayne, Jr. and Phyllis Ann
Byrne, Thomas F.
Cajun Holdings LLC
Cambiano, Mark
Canal City Homeowners Assn.
Caney Valley Inv. Co.
Caplen Yacht. Basin
Carey, Linda
Carr, Dee
Carr, Helen E.
Carr, James Cleveland Est
Centerpoint Energy Hou. Ele
Chalifoux Living Trust
Chambers, Roger and Lee Ann
Chambers, Thomas L.
Chance, Annette H.
Charpiot, Arnold B. and T.R.
Charpiot, Garland D. and Arnold B.
Charpiot, Loretta
Cheng, Ronald
Cherry, Ricky
Chevron Chemical Co.
Chloe Elise Enterprises Inc.
Citimore LLC
Clawson, Lance
Clements, Dalton R. (Estate)
Clements, T.S.
Cleveland, Euna
Coastal Paradise Investments LLC
Coastal Testing Lab
Cobb, G. and A. Fam Ltd Prtnship
Cobbs, Phyllis
Pauls, Louis Sr. Trust
Pcs Phosphate Co. Inc.
Peregrine Homeowners Assn.
Perry, Stephen III
Persia, Christy Thorp
Petrowski, Bruno R.
Petrowski, Christopher P.
Phillips, Wanda Jean
Ploeger, Kurt and Deborah
Poole, T.J., Jr. Est
Port Bolivar Marine Services Inc.
Presley, Chuck
Price Investments Inc.
Proctor Raphael R., Jr.
Pruett, Kevin W.
Quintana Realty Inc.
Rayburn, Alberta A.
Redfish Island Inc.
RES/VLS Real Estate
Revia, Dora Juanita
Reyna, Julian E.
Richardson James and. Gloria
Rienstra, Richard Wiley
Riley, Michael L.
Rincon, Gregory
Rink, Wilson B. and W.F.
Rio Boca. Chica
Risher, Col. Ben A. Est
Roane, James F., II
Rogers, Patrick A.
Rohan, Dixie J.
Rollins, Nancy Dolores Krause
Roper, William A.
Rucker, Willon and Martha
Rutherford, Velma
RWN Holdings
Sal Living Rev. Trust
Sand On The. Floor
Sand Point Ranch Ltd.
Saunderson, Thomas
Schattel, Barbara Sue
Schindler, Howard J.
Schindler, John William
Schlag Galveston LLC and Galveston Park LLC
Seabrook Marina
Segura Family Irrevocable Trust
Sejal Navin Enterprise, LLC
Shafer, Susan L.
Shelley, Amber Jinkins
Sherrill, Willis S.

Cockburn, Dorothy EST
Cockrell Investment Partners. LP
Cole Dev Co. Inc.
Cooley, Lawrence
Cotlar, Bonny
Coyle, Masterson
Cradle of Texas Conservancy
Cramer, Alan
Crawford, Thomas H. and Janet E.
Cremen, Frank and Lynn
Crystal Beach Plaza. LLC
Curry, Frank G., Jr. and W.C. Curry
Dafonte, John R.
Davis, James O.
Davis, St James
De Pallo, Vince and Bill Germano
Dehnel, Wilma C.
Denby, William and Bonnie Sue
Devon Energy Production Co. LP
Dingee, Ann N. Family Trust
Dingler, Earl W.
Doughty, Peggy Ann
Doughty, W.J.
Dow Chemical Company
Downing, Richard E. and Theo E.
Dubois, Edd L., Jr. and Sheryl
Ducroz, Carol B. Rev Living TR
Dunn, Andrew
Dworaczyk, Edward Shane
E Cross Cattle Co. Inc.
East Point Ltd.
Eastham, Donald
Eben, John P.
Edwards, James R. and Pamala J.
Edwards, P.E.
Emmons, Donald Wallace
Eris LLC
Ervin, John L.
Espinosa June and Kathleen. Blair
Espinosa, David and Patricia
Estate of Nina Wilson
Estess, B. Henry
Evans, Greer
Evans, H.L. Dr
Exxon Mobil. Corporation
Farm Form Inc.
Ferris, Thomas M.
First Presbyterian Church
Folletts Island Custom Homes LLC
Ford, Michael H. and Barbara J.
Shirley, William V.
Shows, Barbara A.
Shriners Hospitals FOR
Simmons, Fred
Simpton, Billie Joyce
Singer, Larry and Donna
Singh, Harnoor and Shilpa
Singleton, Lucille
Smith, Albert H., Jr.
Smith, Annie and Steve LLC
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Smith, Wanda A.
Snow, Burl Jackson, III
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Stonequist, Mildred
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Sudderth, Amelia Poole
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Sultex, Ltd.
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Surfside Interests LLC
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T&T Marine Ways
T&T Well Service
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Tatum, Ken and Janie
Taylor, Betty S., EST
Taylor, Ida Mae
Taylor, W.D.
TBD Family Ltd.
Teichman, Henry R. and Donna M.
Teichman, Rudy
Texas Barge and Boat Inc.
Texas Frog Fest

Forman, Daniel A.
Fortenberry Homes Inc.
Fortunate. Forest
Freeman, P. Bruce Et al
Freeport Island Development LP
Froutan, Alain A. and Anousheh
Funchess, H.B. III and Wanda S.
G&A Cobb Family LP
Galveston Bay. Foundation
Gandhi, Bailesh I.
Gardner, Brenda
Gartchian, Meguerditc
Garton, Jas E.
GCM The Big Store Inc.
Gifford, Jim
Gillihand, W.M.
Glockenmeier, Paul C. and Tracey A.
Gobep, Patrick
Gonzales, Froilan Jr.
Gonzalez, Carlos
Gonzalez, James X.
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Green, Jeff
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Halls Bayou Ranch Inc.
Hamman, Found Mary Josephine
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Hanlon, Jerry and Kathryn
Hanlon, Kathryn C.
Hanselka, Donald
Hardin Minerals LP
Hardy, Katie
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Harrington, Jeanne Trust
Harrington, Michael A.
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Haschke, Gerald P.
Hatcher, Frank E.
Hausser, Robert
Hayes, Richard and Sheryl
Hazen, Jack W II
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Thompson, James E., Jr.
Thompson, Josephine EST
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Trimarchi, Maydell
Triple G Land and Cattle LLC
Truong, Dinh C. and Bao Ngoc Luu
Truong, Robert Lee Tran
UDI
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Vigneshwara, LLC
Villa Marina Apartments, LP
Villa, De Matel
Villano, Vivencio
Villareal, Rebecca
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Vratis, Jim N.
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Webb, Charles Trust
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Whelan, Thomas I. and Cecilia Jiles

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Hendricks, Albert
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Howton Enterprises LLP
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Hughes, Harry H.
Husband, Guy B. and Charlotte
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Keel, W.M.
Keen, Thomas Jeanne et al
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Kohlhofer, Daniel and Andrew
Kostal, Frank Joseph III
Labelle Properties Ltd.
Lafour, Rhonda K.
Laguna Harbor LLC
Land Legacy LLC
Landry, Luby L.
Landry, Mike
Laney, Carl D.
Lange, Fred A. Trust
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Wiedenfeld, Paul
Wiggins Mattew D., Jr. Life Estate
Wiggins, Matthew D.
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Willenberg, James B. EST
William Hill Land and. Cattle
William James. Builders
Williams, David
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Wischkowsky, Camilla
WJ Hill Ranch LLC
WK Management Services Inc.
Wong, Howard L. and Mary E.
Wonnum, John J.
Wood, Ronald C.
Wood, Stacy
Woods, George M.
Worrell, Dona Barbour
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Individuals

Aguilar, Kathryn	Kobayashi, Anne
Alexander, Charlotte	Lowrey, Donita
Allen, Carole	Martinez, Grace
Bartos, John	Moroney, Edward W.
Bauer, W.	Moss, Anita
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