Glossary of Terms

Action alternative

Project alternative that includes activities that would result in physical changes to the environment.

Anadromous

Fish that migrate up rivers from the sea to breed and spawn in fresh water.

Anthropogenic

Derived from human activities, as opposed to effects or processes that occur in the natural environment without human influences.

Avulsion

A sudden abandonment of an existing stream channel.

Backbeach

The region of a beach that extends from the highest elevation of the beach landward to the edge of the dunes, defined as the edge of permanent vegetation.

CEQA Process

The objective analysis of a proposal to determine the degree of its environmental impacts on the human environment, alternatives and mitigation that reduce those impacts, and the full and candid presentation of the analysis to, and involvement of, the interested and affected public.

Cultural resources

Aspects of a cultural system that are valued by or significantly representative of a culture or that contain significant information about a culture.

Cumulative actions

Actions that, when viewed with other actions in the past, the present, or the reasonably foreseeable future, regardless of who has undertaken or will undertake them, have an additive impact on the resource the proposal would affect.

Cumulative impact

Two or more environmental effects that, when considered together, are considerable or that compound or increase other environmental impacts.

Density

The number of individuals, usually by species, per unit area.

Direct effect

An impact that occurs as a result of the proposal or alternative in the same place and at the same time as the action.

Environmental impact report (EIR)

A detailed CEQA document that is prepared when a proposal or alternatives have the potential for significant impact on the human environment.

Environmental impact statement (EIS)

A detailed NEPA document that is prepared when a proposal or alternatives have the potential for significant impact on the human environment.

Environmentally preferred alternative

Of the alternatives analyzed, the one that would best promote the policies in NEPA Section 101. This is usually selected by the interdisciplinary team (IOT) members. It is presented in the NPS NEPA document (draft and final EIS or EA) for public review and comment.

Eutrophication

The process by which a body of water becomes enriched in dissolved nutrients (such as phosphates), stimulating the growth of aquatic plant life, which usually results in the depletion of dissolved oxygen.

Facultative species

Species that can occur both in wetland and upland habitat.

Gabion

A basket or cage filled with earth or rocks and used especially in building a support or abutment.

Genotype

The genetic makeup, as distinguished from the physical appearance, of an organism or a group of organisms.

Grade Separated

Topographically separated; in the case of the pedestrian bridge, it would be one or more feet higher or lower than the roadway.

Human environment

Defined by CEQ as the natural and physical environment, and the relationship of people with that environment (1508.14). Although the socioeconomic environment receives less emphasis than the physical or natural environment in the CEQ regulations, the NPS considers it to be an integral part of the human environment.

Impact topics

Specific natural, cultural, or socioeconomic resources that would be affected by the proposed action or alternatives (including no action). The magnitude, duration, and timing of the effect on each of these resources is evaluated in the impact section of an EA or an EIS.

Indirect impact

Reasonably foreseeable impacts that occur removed in time or space from the proposed action. These are "downstream" impacts, future impacts, or the impacts of reasonably expected connected actions (e.g., growth of an area after a highway to it is complete).

Interannual

Occurring between or semi-annually, i.e., from year to year.

Invasive Species

Species that reproduce aggressively, that are typically nonnative (i.e., do not naturally occur) to an ecosystem under consideration, and that cause or are likely to cause economic or environmental harm or harm to human health.

Issues

In NEPA, issues are environmental, social, and economic problems or effects that may occur if the proposed action or alternatives (including no action) are implemented or continue to be implemented.

Lead agency

The agency either preparing or taking primary responsibility for preparing the NEPA document.

Mainstem

The main river channel of the river system into which tributaries flow.

Major federal action

Actions that have a large federal presence and that have the potential for significant impacts on the human environment. They include adopting policy; implementing rules or regulations; adopting plans, programs, or projects; ongoing activities; issuing permits; or financing projects completed by another entity.

Manning's n

Manning's Roughness Coefficient. Usually notated as "*n*," this unitless coefficient is used in hydraulic modeling to identify the "roughness" of an area, or its resistance to passing flow. A high *n* value means increased roughness. For example, a concrete channel would have a relatively low *n* value, whereas a stream channel with dense willow growth would have a relatively high *n* value.

Mitigation

A modification of the proposal or alternative that lessens the intensity of its impact on a particular resource.

National Geodetic Vertical Datum (NGVD)

A fixed surface reference established by the U.S. Coast and Geodetic Survey to which relief features and elevation data are referenced.

NEPA process

The objective analysis of a proposal to determine the degree of its environmental and interrelated social and economic impacts on the human environment, alternatives and mitigation that reduce those impacts, and the full and candid presentation of the analysis to, and involvement of, the interested and affected public.

No-Action Alternative

Project alternative that would result in no project being implemented.

Notices of Availability

Separate notices submitted to the Federal Register that the draft EIS and the final EIS are ready for distribution.

Notice of Intent (NOI)

The notice submitted to the Federal Register indicating that an EIS will be prepared. It describes the proposed action and alternatives, identifies a contact person at the NPS, and gives time, place, and descriptive details of the agency's scoping process.

Notice of Preparation (NOP)

Notice to public agencies of an intent to prepare an environmental impact report.

Obligate wetland species

Species that occur primarily in wetland habitat.

Off-Peak Season

Time period during which a recreational or tourist area received the least number of visitors

Peak Season

Time period during which a recreational or tourist area received the greatest number of visitors.

Phenological

The scientific study of periodic biological phenomena, such as flowering, breeding, and migration, in relation to climatic conditions.

Preferred alternative

The alternative an NPS decision maker has identified as preferred at the draft EIS or EA stage. Identification of the preferred alternative helps the public focus its comments during review of the NEPA document.

<u>Q</u>

Q is the recurrence interval (in years) of a given flow event. The recurrence interval (sometimes called the return period) is based on the probability that the given event will be equaled or exceeded in any given year. For example, a Q1 event is the 1-year recurrence interval event, or the event that has a 100% probability of occurring in any given year. A Q2 event has a 50% probability, a Q50 event has a 2% probability, and a Q100 event has a 1% probability of occurring in any given year.

Proposal

The stage at which the NPS has a goal and is preparing to make a decision on one or more alternative means of accomplishing that goal. The goal can be a project, plan, policy, program, and so forth. The NEPA process begins when the effects can be meaningfully evaluated.

Record of Decision (ROD)

The document that is prepared to substantiate a decision based on an EIS. It includes a statement of the decision made, a detailed discussion of decision rationale, and the reasons for not adopting all mitigation measures analyzed, if applicable.

Refugia

An area that has escaped ecological changes occurring elsewhere and so provides a suitable habitat for species.

Revegetation

Plant stock that is germinated and grown in one location, and then planted at another site.

Riparian

Relating to, or living or located on the banks of a river or stream.

Salmonid

Of, belonging to, or characteristic of the family *Salmonidae*, which includes the salmon, trout, and whitefish.

Scoping

Internal NPS decision making on issues, alternatives, mitigation measures, the analysis boundary, appropriate level of documentation, lead and cooperating agency roles, available references and guidance, defining purpose and need, and so forth. External scoping is the early involvement of the interested and affected public.

Shoulder Seasons

The time periods between a recreational area's peak season and off-peak season, when the recreational area receives an intermediate level of use, typically occurring in fall and spring.

Soffitt

The underside of a structural component, such as a bridge.

Special-status species

For purposes of this EIS/EIR, any species listed or proposed for listing under the state or federal endangered species acts, or recognized as locally rare by recognized authorities.

Tiering

The use of broader, programmatic NEPA documents to discuss and analyze cumulative regional impacts and define policy direction, and the incorporation by reference of this material in subsequent narrower NEPA documents to avoid duplication and focus on issues "ripe for decision" in each case.

Thalweg

The line defining the lowest points along the length of a river bed or valley.

Tributary

A smaller river or stream that flows into a larger river or stream.

Watershed

The area from which water drains to a single point or body of water; also called drainage basin.

Wetland

An area that floods periodically, has waterlogged soils, or is covered with a relatively shallow later of fresh or saltwater.

Species List: Common and Scientific Names

Common Name	Scientific Name
Invertebrates	
California freshwater shrimp	Syncaris pacifica
Monarch butterfly	Danaus plexxippus
Myrtle's silverspot butterfly	Speyeria zerene myrtlaeae
Ricksecker's water scavenger beetle	Hydrochara rickseckeri
San Francisco fork-tailed damselfly	Ischnura gemina.
silverspot butterfly	Speyeria zerene myrtleae
Fish	
coast range sculpin	Cottus aleuticus
coho salmon	Oncorhynchus kisutch
Pacific staghorn sculpin	Leptocottus armatus
prickly sculpin	Cottus asper
riffle sculpin	Cottus gulosus
Sacramento blackfish	Orthodon microlepidotus
Sacramento perch	Archoplites interruptus
Sacramento pikeminnow	Ptchocheilus grandis
starry flounder	Platichthys stellatus
steelhead trout	Oncorhynchus mykiss
striped bass	Morone saxatilis
threespine stickleback	Gasterosteus aculeatus
tidewater goby	Eucyclogobius newberryi
topsmelt	Atherinops affinis
yellowfin goby	Acanthogobius flavimanus
Amphibians and Reptiles	
California newts	Taricha torosa
California red-legged frog	Rana aurora draytonii
ensatina	Ensatina eschscholtzi

Common Name	Scientific Name
foothill yellow-legged frog	Rana boylii
northern alligator lizard	Elgaria coeruleus,
slender salamander	Batrachoseps attenuatus
western aquatic garter snake	Thamnophis couchi aquaticus
western fence lizard	Sceloporus occidentalis
western pond turtle	Emys [Clemmys] marmorata
western terrestrial garter snake	Thamnophis elegans
Birds	
American goldfinch	Caruelis tristis
American Peregrine Falcon	Falco peregrinus anatum
Brewer's blackbird	Euphagus cyanocephalus
California brown pelican	Pelecanus occidentalis californicus
northern spotted owl	Strix occidentalis caurina
song sparrow	Melospiza melodia,
Swainson's thrush	Catharus ustulatus
Willow flycatcher	Empidonax traillii
Wilson's warbler	Wilsonia pusilla
yellow-bellied racer	Coluber constrictor
Mammals	
bobcat	Lynx rufus
brush rabbit	Sylvilagus bachmani
California giant salamander	Dicamptoden ensatus
California vole	Microtis californicus
Columbian black-tailed deer	Odocoileus hemionus columbianus
coyote	Canis latrans
deer mouse	Peromyscus maniculatus

Common Name	Scientific Name

gray fox Urocyon cinereoargeteus

roof rat Rattus rattus
striped skunk Mephitis mephitis
western gray squirrels Sciurus griseus

western harvest mouse Reithrodontomys megalotis

Plants

annual bluegrass Poa annua annual fescues Vulpia spp.

annual grasses Polypogon monspeliensis, Lolium perenne

arroyo willow Salix lasiolepis
Baltic rush Juncus balticus

beach bur Ambrosia chamissonis

beach layia Layia carnosa
beach wild-rye L. pacificus

black cottonwood Populus balsamifera
blackberry R. ursinus and R. discolor

blue wild rye Elymus glaucus Brazilian waterweed Egeria densa bull thistle Cirsium vulgare bulrush Scirpus spp.

California bee plant Scrophularia californica
California bottlebrush grass Elymus californicus
California buckeye Aesculus californica

cape ivy Delairea odorata [Senecio mikanioides]

cattail Typha spp.

clustered dock Rumex conglomeratus

Common Name Scientific Name

coast redwood Sequoia sempervirens

cordgrass Spartina

creeping bentAgrostis stoloniferacreeping bent grassAgrostis stolonifera

creeping wild-rye L. triticoides

cut-leaved geraniumGeranium dissectumdotted smartweedPolygonum punctatum

dune grassLeymus molliselderberrySambucus spp.English ivyHedera helix

floating marsh pennywort Hydrocotyle ranunculoides

glasswort
Salicornia spp.
hair grass
Aira caryophyllea
Harding grass
Phalaris aquatica
hedgehog dogtail
Cynosurus echinatus
hedgenettle
Stachys ajugoides
Himalayan blackberry
Rubus discolor

Kikuyu grass Pennisetum clandestinum

Knotgrass Paspalum spp.

Lobb's water-crowfoot Ranunculus lobbii

Marin knotweed Polygonum marinense
monkey flower Mimulus guttatus

Monterey cypress Cupressus macrocarpa

Monterey pine Pinus radiata
morning glories Calystegia spp.

Mugwort Artemesia douglasiana

Common Name Scientific Name

Needle grass Nassella pulchra nettles Urtica dioica

nodding semaphore grass Pleuropogon refractus

ox-tongue Picris echioides
panic veldt grass Ehrharta erecta
pennyroyal Mentha pulegium

pink sand verbena Abronia umbellata ssp. brevifolia

plantain Plantago spp.

Point Reyes bird's-beak Cordylanthus maritimus var. palustris

Point Reyes lupine Lupinus tidestromii var. layneae

poison hemlock Conium maculatum

red alder Alnus rubra

red elderberry Sambucus racemosa ripgut brome Bromus diandrus salt grass Distichlis spicata salt rush Juncus leseurii

San Francisco spineflower Chorizanthe cuspidate
San Francisco wallflower Erysimum franciscanum

sea rocket Cakile maritime

shore pine Pinus contorta ssp. contorta

silverweed Potentilla anserina soft chess Bromus hordeaceous

Sonoma alopecurus Alopecurus aequalis var. sonomensis

spikerush Eleocharis macrostachya swamp bellflower Campanula californica tall cyperus Cyperus eragrostis

Common Name	Scientific Name
tall fescue	Festuca arundinaceae
thimbleberry	Rubus parviflorus
three square rush	Scirpus americanus
Thurber's reed grass	Calamagrostis crassiglumi
water parsley	Oenanthe sarmentosa
water plantain	Alisma plantago-aquatica
yarrow	Achillea millefolium
yellow sand verbena	Ambronia latifolia
yellow willow	S. lucida

Acronyms and Abbreviations

	ADA	Americans with Disabilities Act	C-NC	Coastal Neighborhood
	$\mu/m3$	micrograms per cubic meter		Commercial/Mixed Use Zoning Designation
	5X Committee	Golden Gate National Recreation Area Historic Preservation Committee	CNDDB	California Natural Diversity Database
	AB	Assembly Bill	CNEL	Community noise equivalent level
	ABAG	Association of Bay Area	CNPS	California Native Plant Society
	пылю	Governments	CO	Carbon monoxide
	Alquist-Priolo Act	Alquist-Priolo Earthquake Fault Zoning Act	C-OS	Coastal Open Space Zoning Designation
	APE	area of potential effect	County	County of Marin
	ARB	California Air Resources Board	Countywide Plan	n Marin Countywide Plan
	BAAQMD	Bay Area Air Quality Management	CRLF	California red-legged frog
		District	C-SF	Coastal Single Family Zoning
Big Lagoon Project		Wetland and Creek Restoration at Big Lagoon, Muir Beach, Marin County, California		Designation
Troject			CTMP	Comprehensive Transportation Management Plan
	BMP	Best Management Practice	CWA	Clean Water Act
	CAA	Federal Clean Air Act	CY	Cubic yards
	CAAA	Clean Air Act Amendments	dB	Decibel
	CAAQS	California ambient air quality standard	DEIR	Draft Environmental Impact Report
	C-AG	Coastal Agriculture Zoning Designation	DEIS	Draft Environmental Impact Statement
	Caltrans	California Department of Transportation	DFG	California Department of Fish and Game
	CCC	California Coastal Commission	DO	Dissolved oxygen
			DPS	Distinct Population Segment
	CEQ	Council on Environmental Quality	DTSC	California Department of Toxic
	CEQA	California Environmental Quality Act		Substances Control
	CESA	California Endangered Species Act	EA	Environmental Assessment
	CFR	Code of Federal Regulations	EC	Electrical Conductivity
	cfs	Cubic feet per second	EFH	Essential fish habitat
			ELJs	Engineered Log Jams
				-

Acronyms and Abbreviations (Continued)

EO	Executive Order	LCP	Local Coastal Program
EPA	Environmental Protection Agency	Ldn	Day-night sound level
ESA	Federal Endangered Species Act	Leq	Equivalent continuous sound level
ESU	Evolutionary Significant Unit	Lmax	Maximum sound levels
FAF	Floodplain activation flows	Lmin	Minimum sound levels
FEMA	Federal Emergency Management Agency	LOS	Level of service
FHWA	Federal Highway Administration	LWD Lxx	Large woody debris Percentile-exceeded sound levels
FIGR	Federated Indians of the Graton Rancheria	Manning's n	n
FIRMs	Flood insurance rate maps	MBCSD	Muir Beach Community Services District
FMMP	Farmland Mapping and Monitoring Program	MBVFD	Muir Beach Volunteer Fire Department
FMP	Fire Management Plan	mg/l	Milligrams per liter
fps	Feet per second	MHHW	Mean higher high water
General	NPDES General Permit for	MMWD	Marin Municipal Water District
Construction Permit	Discharges of Storm Water Runoff Activity	MPM	Meyer-Peter and Muller
GGNRA	Golden Gate National Recreation Area	MSCSD	Muir Beach Community Services District
GMP	General Management Plan	MSMAD	Marin-Sonoma Mosquito Abatement District
gpd	Gallons per day	MVCAC	Mosquito & Vector Control
HLA	Harding-Lawson and Associates		Association of California
Hwy 1	Highway 1	NAAQS	National ambient air quality standards
I-580	U.S. Interstate 580	NEPA	National Environmental Policy Act
IPCC	Intergovernmental Panel on Climate	NFIP	National Flood Insurance Program
IDM (Change	<u>NGVD</u>	National Geodetic Vertical Datum
IPM	Integrated Pest Management	NHPA	National Historic Preservation Act
ITS	Intelligent Transportation System		
km	kilometer		



Acronyms and Abbreviations (Continued)

NOAA Fisherie	s National Oceanic and Atmospheric Administration's National Marine Fisheries Service	SCAs	Stream and Creekside Conservation Areas
NOL		SFBAAB	San Francisco Bay Area Air Basin
NOI	Notice of Intent	SFZC	San Francisco Zen Center
NOP	Notice of Preparation	SHPO	California Office of Historic
NOX	Oxides of nitrogen		Preservation
NPDES	National Pollutant Discharge	SIP	State implementation plan
-	Elimination System	SWPPP	Stormwater pollution prevention plan
NPS	National Park Service	SWRCB	State Water Resources Control Board
NRHP	National Register of Historic Places	TACs	Toxic air contaminants
OS	Open Space Zoning Designation	TCPs	Traditional cultural properties
PA	Programmatic Agreement	TDS	Total Dissolved Solids
PM10	Particulate matter 10 microns or less in diameter	TIF	Transportation intercept facility
PM2.5	Particulate matter 2.5 microns or less in diameter	tpy	Tons per year
		UBC	Uniform Building Code
ppd	Pounds per day	UNESCO	United Nations Educational, Scientific, and Cultural Organization
ppm	parts per million	US-101	U.S. Highway 101
PRBO	PRBO Conservation Science	USACE	U.S. Army Corps of Engineers
PROPDEV-41	Marin County January 2006 Semi- Annual Proposed Development Survey	USFWS	U.S. Fish and Wildlife Service
PSD	Prevention of Significant	USGS	U.S. Geological Survey
	Deterioration	V/C	Volume to capacity
PWA	Philip Williams & Associates, Ltd.	WDR	Waste Discharge Requirements
Q	Recurrence interval for storm events		
ROD	Record of Decision		
ROG	Reactive organic gases		
		1	

RWQCB

SAM

Regional Water Quality Control

Stable Channel Analytical Model

Index of Key Words

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