CALIFORNIA COASTAL COMMISSION

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RECORD PACKET COPY

February 26, 2004

TO:

COMMISSIONERS AND INTERESTED PERSONS

FROM:

Charles Lester, Deputy Director

Rick Hyman, Deputy Chief Planner, Central Coast District Elizabeth Fuchs, AICP, Manager, Statewide Planning

Kelly Cuffe, Coastal Analyst

SUBJECT:

RESPONSE TO COMMENTS AND ADDENDUM TO THE PERIODIC

REVIEW OF THE MONTEREY COUNTY LOCAL COASTAL

PROGRAM

On November 26, 2003, Coastal commission staff released a staff report summarizing basic conclusions of its periodic review of Monterey County's local coastal program along with a series of preliminary recommendations. In late December, the complete draft of findings, recommendations and supporting material ("Draft Findings of the Monterey County LCP Periodic Review (dated 12/22/03), consisting of ten chapters and five appendices, along with figures and tables) was made available to the public for review and comment, placed on the Commission's website and distributed to the Commissioners on CD-Rom.

Since release of the draft findings and recommendations, staff has received some comments. However, Monterey County staff and decision-makers have not had the opportunity to fully review and comment on the documents. Faced with significant staff reductions and budget shortfalls, County staff has had to focus limited resources on other regulatory and planning matters.

In addition to distributing the draft report, Commission staff has committed to participating in some public forum on the draft periodic review report and recommendations. We have requested that the County staff set up a public meeting or meetings, and they have agreed to do so, however, no dates have been set as of today. Commission staff made a presentation to the Board of Supervisors on February 10, 2004 at which time the commitment to have local public outreach was reaffirmed. The Commission has continued to conduct outreach. Commission staff met with other public agencies (e.g., Caltrans, State Parks) to discuss the periodic review findings and recommendations. Additional comments from public agencies may be forthcoming. Results of any public meeting or additional comments will be reported to the Coastal Commission in future status briefings.

The priority of the County staff is on completing the 2004 Monterey County 21st Century General Plan Update which includes a comprehensive update of the County's local coastal program. As noted in our earlier staff report, the County has already incorporated some of the

periodic review recommendations in its draft *Update*. In addition to a series of meetings concerning the General Plan in early 2002 and subsequent phone conversations, Commission staff provided the County's General Plan team with an initial set of recommendations for updating the LCP based on the on-going Periodic Review. These extensive comments, included in Appendix A of the December 2003 *Draft Findings of the Monterey County Local Coastal Program Periodic Review*, were transmitted in January 2003 for consideration by the County in developing its General Plan. One of the challenges presented by the County's General Plan Update is to streamline and remove redundancies from the various certified documents of the LCP, while maintaining the specific detail in the LCP necessary to assure consistency with the California Coastal Act. Many of the Appendix A recommendations were focused on this requirement.

It is important to note that each Periodic Review is unique and in this case the release of the County's draft General Plan/LCP Update presents an opportunity to address issues raised by the draft review in a manner that as much as possible minimizes impact on the Commission's and the County's limited resources. Staff is attempting to integrate the process as much as possible with the local government processes while still addressing the mandate under Coastal Act section 30519.5. The Commission may in the future still adopt and transmit final findings and recommendations to the County thereby initiating the one year time period under the Coastal Act that the County has to respond to the Commission's transmitted recommendations. However, to the extent that the County's General Plan Update/LCP Amendment can effectively address the concerns identified in the Periodic Review, such future action may not be needed.

All comment letters are presented in **Attachment 1** to this report. The Staff Report of 11/26/03 with some of the Draft Recommendations is included in **Attachment 2** to this report. This current report presents those comments on specific text or recommendations that required a staff response. In some cases, staff is recommending a change to our previous recommendations in order to address the comments. These changes are shown in the addendum below. At this time staff is not prepared to recommend any accompanying changes to draft findings. Draft findings and appendices with the remainder of recommendations were previously distributed to the Commission and the public and will also be available at the hearing.

STAFF RECOMMENDATION:

Because of the unique timing and circumstances related to the release of the County's Draft General Plan Update, Commission staff is not asking the Commission to vote on final findings and recommendations for transmittal pursuant to Coastal Act section 30519.5 on the Monterey Periodic Review in March. Staff recommends that the Commission:

- Receive, acknowledge and conduct a public hearing on the Periodic Review report;
 and
- Receive and consider public comments and the following responses and revisions (see Addendum below);

In the meantime Commission staff will continue to use the periodic review report in working with Monterey County to respond to the 21st Century General Plan Update and will return to the

Commission in the future with a progress report on the periodic review and *General Plan Update*. At some future time, the staff may recommend that the Commission adopt final findings and transmit to the County Board of Supervisors any recommendations that remain unresolved from this process.

ADDENDUM: REVISIONS TO RECOMMENDATIONS IN PREVIOUSLY RELEASED DOCUMENTS:

Based on the responses to comments, the following recommendations found in the Staff Report on the Periodic Review of the Monterey County Local Coastal Program (dated 11/26/03 and included herein as Attachment 2) and the Draft Findings of the Monterey County LCP Periodic Review (with appendices dated 12/22/03) are revised (using eross-outs for deletions and underlining for additions) as follows:

1. Pages 52-55 of Staff Report of November 26, 2003

Recommendation SH-28.4 Protect Maritime Chaparral Habitat as ESHA and Mitigation for Unavoidable Impacts:....

B.2.a.(2): Prohibit other new development (grading, landscaping, major vegetation removal, accessory and second units, etc.) outside existing disturbance envelope, unless necessary for fire safety, pursuant to Recommendation CH-9.3 CH-9.2....

B.2.b: Site and design development to maximize protection of ESHA. Prohibit new development within <u>at least 100</u> feet of ESHA.

2. Page 64 of Appendix A

Issue SH-13: Other ESHA Setbacks: ...Retain IP Section 20.144.040(2) & (3) with regard to EHSA buffer. Revise IP Section 20.144.040(2) & (3) to add: "...within at least 100' of environmentally sensitive habitats..."

3. Page 2 of Table PA-10e in Appendix B:

Recommendation for Access point #2 in Big Sur: Doud Property: Acquire remaining portions of Doud Ranch on east side of Highway 1 to protect views and provide parking. Work with the landowner to protect views and provide parking, if consistent with all other LCP policies, through public acquisition and/or alternative means.

4. Page 6 of Appendix D (Recommendations directed to other agencies)

SH-29.9 Continue Monterey Pine forest research: Governmental and non-profit agencies, <u>universities</u>, <u>and others</u> that have an interest in habitat protection (along with Monterey County) should continue to support research into ways to preserve and enhance the pine forest including addressing pine pitch canker and genetic diversity.

RESPONSE TO COMMENTS:

I. COMMENTS FROM MONTEREY COUNTY BOARD OF SUPERVISORS

Comment: LU-9.2 Do not allow private water supplies in Cal-Am service area. This constitutes an unconstitutional and illegal taking of water rights. The County of Monterey may arguably be left to pay for the groundwater rights for every legal lot of record in the Carmel Local Coastal Program. Someone not familiar with the law of groundwater rights may have prepared this proposal.

Response: Staff's familiarity with groundwater rights law does not lead to a conclusion that the recommendation to restrict a private party from drilling a well is "an unconstitutional and illegal taking of water rights." There is a difference between a property right and a discretionary permit to allow that right to be exercised. The Coastal Act states that well drilling is development that must be authorized by a coastal permit consistent with the Coastal Act and by extension the local coastal program. The periodic review analysis documents inconsistencies with the Coastal Act from allowing private well drilling in the Cal-Am service area. Bolstering the case made in the periodic review are memoranda contained in a new County staff report on a current well application (PLN010032 for February 12, 2004). The Monterey Peninsula Water Management District and the Monterey County Department of Environmental Health staff express concerns over the long-term viability of the groundwater aquifer in the area to support well withdrawals and the cumulative impacts from multiple wells in the area.

Commission staff has said on various occasions that to satisfy Coastal Act concerns, any groundwater extractions must not result in "depletion of groundwater supplies" (Coastal Act Section 30231) nor otherwise harm resources. To date any such analyses for coastal zone wells have focused on individual and immediate potential impacts, as opposed to the long-term, cumulative, groundwater basin impact. If the County or another entity were to provide evidence through a comprehensive hydrologic study that individual private groundwater extractions did not have adverse impacts, then a policy addressing when and how to allow wells could be considered.

Comment: LU-9.4 Add review criteria for any proposed desalination facilities. Monterey County has an ordinance that requires that any desalination, plant be owned and operated by a public entity. The Commission staff appears not to be aware of this ordinance, which was adopted in 1989. The criteria for a proposed facility should not only be "public as warranted by application of Coastal Act policies" but also that the proposed facility be a legal land use as warranted by local code. The Coastal Commission is required to acknowledge and not promote any violation of the County's ordinance and the Local Coastal Program should reflect this fact (Cal-Am is not a public entity, it is a privately-owned enterprise.)

Response: Commission staff did review the County's existing *County Code* and noted in the Draft Findings at page 54:

Planning has continued for development of new water supplies, including potential desalination facilities at Moss Landing, to serve the Cal-Am service area and possible

other users. The LCP does not contain adequate policies to assure that such new facilities will be development in conformance with Coastal Act policies to support priority uses, protect coastal resources, concentrate development and not result in individual or cumulative impacts. The County's Health and Safety Code (County Code Chapter 10.72) does, however, include policies and regulations for permitting the construction and operation of desalination facilities. These include application requirements related to construction, financial capabilities, inspection and testing, and other issues. They also include a policy specifying that desalination facilities be owned and operated by public entities.

The County may propose additional or more limiting criteria for desalination projects beyond what is required under the Coastal Act. But the certified LCP should include adequate policies and standards to ensure that proposed desalination projects are thoroughly evaluated and adverse impacts are avoided or minimized and mitigated. *County Code* Chapter 10.72 is not currently part of the certified Local Coastal Program.

Comment: LU-11.1 Re-designate Elkhorn, Slough Foundation parcel to Resource Conservation. APN 133-21-007 is currently zoned Recreation and Visitor Serving Commercial. The parcel has been annually used for two decades by the Moss Landing Antique Fair as a parking lot. Re-designation would, in effect, shut down the Antique Fair and severely harm the seventeen charities that derive benefit from the Fair. A single review by your staff of the history of Moss Landing would have revealed the grave damage this proposal will cause to the Moss Landing Community and the public charities that depend upon it.

Response: Recommendation LU-11.1 states:

Redesignate APN 133-221-007 from Recreation and Visitor Serving Commercial to Resource Conservation Wetlands and Coastal Strand or other appropriate designation and rezone accordingly.

The recommended rezoning to Resource Conservation would not necessarily preclude the Antique Fair from continuing as claimed by the commenter because the district allows both for legal nonconforming uses to continue and for low-intensity day use recreational uses. The staff recommendation also says that rezoning could be to another appropriate designation, so for example, the County could decide to designate the property as Scenic and Natural Resource Recreation. The recommendation to redesignate was based on the fact that the site is a seasonal wetland now owned by the Elkhorn Slough Foundation, and the current Commercial Recreation & Visitor Serving land use designation, allows hotels, restaurants, and the like. The County should consider a more appropriate designation based on the resource and the objectives of the Foundation.

Comment: LU-11.2 Update Moss Landing Community plan. There appears to be no justification to update the Moss Landing Community plan with the cited changes because the components of the recommendations are merely restatements of the current policy. However, there is a thinly veiled objective within the staff's proposed changes to undermine the development of visitor-serving facilities in the Moss Landing Community. The Department of Boating and Waterways has given public funds to the Moss Landing Harbor District for this

expressed purpose based on the existing policies in the existing program, and altering these policies after the fact to restrict publicly owned visitor-serving facilities may not only be unethical but may have consequences that undermine the principle that justified the adoption of the Coastal Act over two decades ago: the protection of the public's right to access the coastal resources.

Response: The implication in this comment that good, existing policies would be replaced does not reflect the intent of the recommendation to update the Moss Landing Community Plan. The recommendation provides:

Amend the plan to ensure that priority uses, including an upland dredge rehandling and/or disposal site and dry storage, are accommodated in a manner that protects scenic, habitat, wetland, historic, and other coastal resources. Assure that: the redevelopment of the Harbor District's North Harbor parcels preserve Bay and Harbor views; the redevelopment of the former National Refractories accommodates necessary priority uses and redesign of the transportation system (including any road realignment, parking area, and rail line) that furthers the objective of maintaining Highway One as a two-lane road in the Moss Landing corridor (see Recommendation LU-14.1); and comprehensive shoreline management is completed (see Recommendation SH-31.2).

The recommendation does not suggest development of an updated plan that strays from Coastal Act priorities. Commission staff believes there is ample evidence that aspects of the plan are outdated. Indeed, a primary intent of the recommendation was to assure that high priority uses such as those that would facilitate maintaining the harbor, would not be precluded by other development, possibly of a lower priority. Public access and other development that provides and/or protects visitor-serving use of the coast is also a high priority. However, Commission staff is open to discussing with the County whether updating the plan is a higher priority task in light of other County priorities and how extensive such an update needs to be. It is also noted that the draft 21st Century General Plan Update also includes an action to update the Moss Landing Community Plan..

Comment: LU-11.3 Avoid or minimize damage to marine organisms from seawater pumps. The Board of Supervisors, the California Regional Water Quality Control Board, and the State Water Resources Control Board have sole authority to set, enforce and permit public health ordinances, water quality standards and NPDES facilities. The Coastal Commission does not have any statutory or legal authority to set or enforce these standards. The Commission staff should review the Porter-Cologne Act, the Federal Clean Water Act, and the California Government Code before proposing such policies to Monterey County.

Response: This comment refers to recommendation LU-11.3 that says:

LU-11.3 Avoid or minimize damage to marine organisms from seawater pumps: Add a policy to the LCP as follows: Prior to approval of any new or expanded seawater pumping facilities, require the evaluation of alternatives, selection of the least environmentally damaging alternative, use of Best Available Technologies, and provision of maximum feasible mitigation measures to avoid and/or to minimize damage to marine organisms due to entrainment in accordance with State and Federal law (see also Recommendation LU-9.4 regarding pumping for desalination plants).

This recommendation addresses the protection of marine resources from entrainment. The Coastal Commission-- and local government through a certified LCP-- have authority to regulate proposed development for conformance with Coastal Act policies that require protection of marine resources, including Coastal Act sections 30230 and 30231 as follows:

Section 30230 Marine resources; maintenance

Marine resources shall be maintained, enhanced, and where feasible, restored. Special protection shall be given to areas and species of special biological or economic significance. Uses of the marine environment shall be carried out in a manner that will sustain the biological productivity of coastal waters and that will maintain healthy populations of all species of marine organisms adequate for long-term commercial, recreational, scientific, and educational purposes.

Section 30231 Biological productivity; water quality

The biological productivity and the quality of coastal waters, streams, wetlands, estuaries, and lakes appropriate to maintain optimum populations of marine organisms and for the protection of human health shall be maintained and, where feasible, restored through, among other means, minimizing adverse effects of waste water discharges and entrainment, controlling runoff, preventing depletion of ground water supplies and substantial interference with surface water flow, encouraging waste water reclamation, maintaining natural vegetation buffer areas that protect riparian habitats, and minimizing alteration of natural streams.

These sections and other provisions of the Coastal Act provide significant authority for both the Commission, and local government through a certified LCP, to review proposed development that has impacts to marine resources.

Comment: SH-29-7 Manage forests to address pine pitch canker. Monterey County does not have the resources to satisfy the staff's proposal to map all the trees in the county at this time. Further, current evidence appears to indicate that pine pitch canker may be peaking, and more research is necessary before intelligent and implementable policies can be proposed for the Local Coastal Program.

Response: The first sentence of the comment refers to staff recommendation, SH-29.7 that provides:

SH-29.7 Manage forests to address pine pitch canker: Add to required contents of Forest Management Plans: Examination of all trees potentially infected with pitch canker in order to identify and map all healthy (i.e., non-symptomatic) and/or disease-tolerant trees. Include recommendations to address any trees infected with pine pitch canker, including proper disposal if they are removed, based on latest scientific information and recommendations of Pitch Canker Task Force.

To clarify, this does not say that all trees in the County need to be mapped at one time. Tree identification on specific sites already occurs and would continue to occur as part of forest management plans, which are required in conjunction with new development.

The second sentence of the comment, that knowledge of pine pitch canker is evolving is true. This is recognized by and encompassed in Recommendation SH-29.9 Continue Monterey Pine forest research. In recognitions of County responsibilities and constraints this recommendation is not primarily directed to the County, but to other entities. Commission staff fully agree with the comment, but this does not negate any of the staff's draft recommendations.

II. COMMENTS FROM MOSS LANDING HARBOR DISTRICT, LINDA G MCINTYRE, ESO. GENERAL MANAGER/HARBORMASTER

Comment: I would like the record to reflect that many of the proposals are very harsh and economically damaging. Although your mission is to protect the coast and coastal habitat, it must be balanced with economic considerations and safety considerations. For example, proposed LU-11. 3 (and LU-9.4), if implemented, will add unknown delay and no less than \$50,000 to the Moss Landing Harbor District's development costs at North Harbor, a project that has been tediously winding its way through the cumbersome and expensive permit process for years.

Response: This comment refers to Recommendations LU-11.3 and LU-9.4 that state:

LU-11.3 Avoid or minimize damage to marine organisms from seawater pumps: Add a policy to the LCP as follows: Prior to approval of any new or expanded seawater pumping facilities, require the evaluation of alternatives, selection of the least environmentally damaging alternative, use of Best Available Technologies, and provision of maximum feasible mitigation measures to avoid and/or to minimize damage to marine organisms due to entrainment in accordance with State and Federal law (see also Recommendation LU-9.4 regarding pumping for desalination plants).

LU-9.4 Add review criteria for any proposed desalination facilities: Add coastal zone wide policy standards to the LCP to guide review of any proposed desalination facility as follows: Desalination facilities must:

- A. Be public as warranted by application of Coastal Act policies;
- B. Avoid or fully mitigate any adverse environmental impacts to coastal resources;
- C. Be consistent with all LCP and Coastal Act policies, including those for concentrating development, supporting priority coastal uses, and protecting significant scenic and habitat resources;
- D. Be designed, sized, and located as part of a comprehensive regional water management program that includes conservation and recycling, and is based on adequate land use planning and adopted growth projections;
- E. Use technologies that are most energy-efficient. Estimates of the projected annual energy use and the environmental impacts that will result from this energy production, and evidence of compliance with air pollution control laws for emissions from the electricity generation should be submitted with permit applications;
- F. Use, where feasible, sub-surface feedwater intakes (e.g., beach wells) instead of open pipelines from the ocean, where they will not cause significant adverse impacts to either beach topography or potable groundwater supplies (see Recommendation LU-11.3);

- G. Use technologies and processes that eliminate or minimize the discharges of hazardous constituents into the ocean and ensure that the least environmentally damaging options for feedwater treatment and cleaning of plant components are selected. Opportunities for combining brine discharges with other discharges (e.g., from a sewage treatment facility or power plant) should be considered and the least environmentally damaging alternative pursued. Applicants should provide information necessary to determine the potential impacts to marine resources from the proposed intake and discharge. Obtaining this information may require new or updated engineering, modeling and biological studies, or in some cases may be obtained from pre-operational monitoring, monitoring results from other desalination facilities, and pilot studies conducted before building a full-scale facility; and
- H. Be designed and limited to assure that any water supplies made available as a direct or indirect result of the project will accommodate needs generated by development or uses consistent with the kinds, location and densities specified in the LCP and Coastal Act, including priority uses as required by PRC 30254.

It is unclear from the comment specifically how the District believes the above policy changes would result in unknown delay and increased development costs to the North Harbor project. Commission staff believes that the proposed policy revisions are necessary to ensure adequate consideration of alternatives and development consistent with the Coastal Act and that this policy only expands upon requirements that planning for North Harbor avoid and minimize impacts, identify the least environmentally damaging alternative and feasible mitigation measures for any proposed project. In addition, Commission staff has been discussing with the County ways of expediting permit processing for the North Harbor project. The proposal has just been approved by the County Planning Commission, and the part that needs Coastal Commission review will be processed by the Commission in the near future.

Comment: I believe that LU-11.2 is duplicative and again economically unreasonable because the Harbor District is already subject to restrictions on the use of its own land from numerous governmental agencies for dredge rehandling, as evidenced by the permit condition issued by the USFWS requiring that the District convert a 5 +/- acre parcel of its property, used once for dredge material rehandling, to a spineflower habitat in perpetuity. This habitat project has cost some \$365,000 to date, and very few of the spineflower seedlings have germinated despite the expenditure of substantial sums of money, time and resources by professional plant biologists. The use of the land for any other purpose is prohibited.

Response: See response to County Comment on LU-11.2. The fact the commenter notes that the spineflower restoration has not been fully successful may reinforce the recommendation that the LCP needs to be updated. The subject site is designated commercial recreation and visitor-serving and not resource conservation.

Comment: Many of these recommendations before the Commission, if implemented, would constitute unfunded mandates. It would serve the public and those impacted by many of these recommendations well if you were to explore and provide finding support options concurrent with your policy recommendations.

Response: We are committed to working with the County to prioritize implementation of the recommendations and identify funding sources, where necessary.

III. <u>COMMENTS FROM COAST PROPERTY OWNERS ASSOCIATION (CPOA), LISA KLEISSNER</u>

Comment: There is confusion about which documents are the correct documents and where these documents are located for access by the public.

Response: In response, staff developed an Index to the Periodic review Documents. This was included on all CD discs containing the report that were distributed and on the Commission's Periodic Review web page.

Comment: Many policy recommendations would result in a building moratorium and a take in Big Sur as well as other parts of the county.

Response In no periodic review recommendation have we called for a building moratorium. On the contrary, where staff has identified the need to comprehensively take some action (e.g., on the North County overdraft), we have concurrently recommended a way to process permits in the interim. Similarly, staff has not suggested eliminating the basic policy that the County has that prevents a taking in the application of the policies.

Comment: Recommendations to prevent any further residential development in Big Sur are contrary to the wishes of the Big Sur community and contradict estimated residential development counts that were agreed upon at that time of the original LCP.

Response: There are no periodic review recommendations that say that any further residential development in Big Sur is precluded.

Comment: Policy recommendations promoting further buyout of the Big Sur community are contrary to the wishes of the Big Sur community and would result in further reduction of already scarce local community resources.

Response: This comment reflects a position many, but not all, in the Big Sur community support. The Coastal Commission has long supported public acquisitions of appropriate lands for resource protection and/or public access opportunities. However, the periodic review does not recommend specific additional land for public acquisition, other than the remaining portions of the Doud Ranch on the east side of Highway One (Appendix B, Table PA-10e). Staff would agree that there may be other options for preserving views and other resources on this site and have revised the recommendation accordingly (see Addendum above)

Comment: Policy recommendations encourage development on State and Federal lands while limiting and discouraging development on private property - clearly a double standard.

Response: The periodic review policy recommendations are generally based on the resource value of the land, rather than ownership status. Development restrictions would generally apply

regardless of ownership. However, it is true that staff would generally recommend public recreational uses for lands in public ownership, rather than on private residential parcels. This comment could better be addressed if Commission staff had more specific comments about specific recommendations of concern.

Comment: Policy recommendations do not address sorely needed permit streamlining to allow residents to maintain existing roads and structures resulting in unintended degradation to the natural and built environment as well as resulting in financial hardship to the residents of Big Sur.

Response: The Periodic review Chapter 10 identified many procedural and implementation issues that need to be addressed but no specific recommendations have been made. Staff encourages the County to work with Commission staff to identify possible permit streamlining measures that are consistent with the Coastal Act and the California Code of Regulations.

Comment: The recommendation for more stringent ESHA policies will increase cost of development, result in takes and not necessarily result in preserving sensitive habitats. This recommendation is not grounded in sound scientific or biological research.

Response: This comment may refer to a recommendations under Issue SH-4: Resource-dependent Uses in ESHA (Appendix A pages 32-34) that, in summary, provides:

Adopt policy that ensures that sensitive habitats are not significantly disrupted and that only resource-dependent uses are allowed within them.

This recommendation is based on the Coastal Act. Section 30240a that states:

(a) Environmentally sensitive habitat areas shall be protected against any significant disruption of habitat values, and only uses dependent on those resources shall be allowed within those areas.

Comment: Restricting development on any parcel if it can be seen from a public trail could result in massive takes of private property in Big Sur and is contrary to the wishes of the Big Sur community.

Response: This comment refers to the following summarizing statement made in the Staff Report (November 26, 2003, p. 11):

New development that is allowed either outside the viewshed or as exemptions in the viewshed needs to be designed, scaled and located so that it does not adversely impact views as seen from public trails, does not change the overall Big Sur community character, does not impact riparian systems, does not intrude on sensitive habitats, and does not require obtrusive or habitat damaging fire protection measures.

The Periodic Review evaluation documented some cases where views from trails was an issue in the County permit process (Draft Findings, page 389). However, a comprehensive analysis of structural visibility from trails was not undertaken, as it was for visibility from Highway One. The current LCP prohibits, with some exceptions, new development in view of Highway One

(the critical viewshed). Current LCP policy 3.2.4.A.2 already addresses siting and design of structures visible from other public locations (outside of the critical viewshed), that would include views from public trails. This policy would not result in a take of private property since its implementation would not result in prohibiting development on an entire parcel. The periodic review does not contain a recommended change to this policy, but rather recommends that it be retained (Appendix A of Draft Findings p. 195).

Comment: Many recommendations have no nexus to the Coastal Act. This broadening of the Commissions powers and this blatant misinterpretation of the Coastal Act is inappropriate.

Response: Commission staff disagrees with the comment. The Periodic Review evaluated the certified LCP to determine if it was being implemented in conformity with the policies of Chapter 3 of the Coastal Act in light of new information and changed conditions.

IV. COMMENTS FROM DR. DEBORAH ROGERS

These first set of comments are made on the draft findings; Staff response on these various comments follow on page 18 of this report.

Comment: In the Overview (pp 176-178) the authors provide some general information about the Monterey pine forest habitat in Monterey County and some of the reasons that higher levels of protection (and this periodic review) are needed. I agree with the findings that this forest type must be managed and protected as a sensitive forest habitat, and not just as individual trees. Perhaps it can be more clearly stated that many of the 'values' of this forest habitat are a feature of a functioning forest ecosystem and not of individual trees (e.g., protection and food for wildlife, species reproduction, species diversity, soil stabilization, etc.).

Comment: Another general point on this topic that should be more prominently and emphatically stated is that planting trees is not a proxy or ecological equivalent to having trees regenerate naturally. Although planting trees is routinely used as a mitigation measure, it is a poor substitute (in the context of a healthy intact forest; the urban tree situation is a different context) for maintaining natural regeneration. If trees are not regenerating naturally in the forest, or are not allowed to (e.g., small trees are not protected and routinely are uprooted and cut down, or artificially 'thinned'), this constitutes a serious forest health problem. Abundant natural regeneration, adequate genetic diversity, and allowing for natural selection to take place are necessary for adaptation of plant species. Removing many seedlings or young trees, for example, undermines local adaptation. Interfering with any of these processes has an impact on long-term forest health. Further, perhaps it can be stated here that a change in emphasis is needed because this trend of increasing development cannot continue indefinitely. That is, continuing to subdivide the 'pie' of ecologically sensitive habitat, or reducing the forest further with developments that leave a 'percentage' for conservation is a strategy with limited utility. Too soon we arrive at a point of conserving 50% of almost nothing. So review of development proposals, at some point must change to reflect the point of maximum allowable impact (or 'no new impact'). Thus, the authors may wish to suggest that the point has been reached where 'new development' would rarely be acceptable, and 'redevelopment' will be more the norm. Is that not the case if 50% of the habitat has already been lost? The term 'finding a balance' is often used when describing the process of making development vs. conservation decisions. If the 'balance'

sought is 50:50, then no new development would be permitted. 'Balance' must take into account historical loss of habitat, not just remaining habitat.

Comment: The authors make the point in several places that there has been significant new information available for Monterey pine since the LCP was written. While true, there are several threads to this message that are better expressed if teased apart. First, it is a time-consuming process to bring relevant information from research into management practice and the Monterey County staff may not have the resources required to do this effectively. This further emphasizes the critical role played by nonprofit and academic organizations that seek to infuse more science into ecosystem management. Second, there is a strong need for <u>additional</u> research on this species; there are many existing information gaps. Finally, yes, there is substantial new information since 1988 that should be incorporated into management plans. It seems that these points are worth separating to illustrate that the mere existence of information does not guarantee its consideration in LCPs or other plans.

Comment: Climate change (that is, in current parlance—the accelerated changes in climate that are related to human influences, particularly greenhouse gas emissions) has been an ongoing influence on all habitat types, including the Monterey Pine Forest Habitat. Although climate change is a function of both natural climatic cycles and human influences, this unnaturally high rate of change puts additional pressure on species. Climate change means that healthy ecosystems, genetic diversity, and large protected habitats and adjacent potential habitats (to allow migration) are more important than ever. The general point here is that 'new' and 'preventable' developments must be viewed in the context of 'historic' losses of habitat and negative influences, current and ongoing influences, and influences that cannot be easily prevented or controlled (e.g., climate change, pollution). As such, the 'impact' of proposed new developments must be weighed against the historic, continuing, and expected impacts from all sources—and not just the impact of that particular development (see Figure 1, attached). This gets to the issue of 'cumulative' impacts and is a key point that should be emphasized. I recognize that the Periodic Review contains this point on page 204, but it deserves more emphasis and a more prominent position in the report.

Comment: Authorities for developing, reviewing, and approving forest management plans that involve or include environmental sensitive habitats: Several points mentioned in reference to forest management plans (e.g., page 199) raise the point of appropriate expertise for developing and reviewing such plans. Terms or concepts such as 'pests' (without distinguishing between native insects that are part of a natural forest and exotic invasive insects that might require management intervention), 'over-stocking' (in reference to a high density of seedlings from natural regeneration), and 'fuels' (instead of understory and the ecological role of that understory) are concerning. In keeping with the well-based general recommendation of the Coastal Commission staff to approach habitat management and conservation from a 'whole forest' or 'intact ecosystem' perspective, the plans must reflect these objectives, rather than individual tree management. Further, the expertise applied to such plans must reflect an understanding of forest (or other ecosystem) functioning, rather than satisfying an objective of a 'production' or 'commercial' forest.

The objective of obtaining a healthy, functioning, forest ecosystem requires considerable breadth of expertise—in forest ecology, hydrology, wildlife biology, plant reproductive biology, etc. It is doubtful that one individual possesses all of the necessary expertise. Further, a forestry degree—depending on when and where it was obtained, and what courses and experience comprised the academic program—does not necessarily reflect this expertise. Thus, it would better serve the objectives of forest management planning—where the interest is in providing for a functioning forest, with all of its component species and processes—to have a professional team develop the plans, a team that minimally includes an ecologist and a wildlife biologist, and with input from those with nutrient cycling, hydrological processes, climate, genetic, and other appropriate expertise. Monterey County and its neighboring regions are rich in intellectual resources pertaining to biological sciences and ecosystem management and should draw on these resources—from academic, agency, business, and nonprofit sources—without hesitation.

Comment: It could be better emphasized at the beginning that one of the guiding principles is that there must be different standards for protection for the Monterey Pine Forest habitat depending on the size, location, status, etc. For example, whereas encouraging natural regeneration (of the pine and other species) is critical for the larger intact forest areas, planting (genetically appropriate) Monterey pines is a good practice for more fragmented, smaller, or specifically urban areas. Further, whereas the loss of individual trees may be a reasonable currency by which to measure impact for street tree situations or small fragmented areas, it does not capture the loss of 'habitat' in larger forest areas.

Comment: Pp 177-178: I suggest the last sentence on page 177 that finishes on page 178 be changed as follows: "This should include updated policies, standards, and management measures to address long-term preservation of identified habitat, protection of genetic diversity and integrity, management of exotic invasive species and their impacts (including pitch canker), [new development-delete] redevelopment within the forest canopy, and restoration of [suitable habitat areas – delete] currently degraded areas that have habitat potential."

Comment: P 178: "The three California populations are geographically isolated and display genetic differences, as well as varying degrees of disease resistance." I assume that the authors wish to convey the idea that the populations are different from one another. However 'geographically isolated' could be taken to mean that they are distant from us rather than from one another; and displaying 'varying degrees of disease resistance' seems a bit of a nonsequitur, as well as causing confusion as to whether the 'variance' is within or among populations. I suggest this as an alternative sentence: "The three California populations are well separated from each other geographically, and are differentiated from each other genetically and ecologically—displaying genetic differences in such traits as resistance to various diseases and growth properties, and ecological differences including hybridization with other pine species and differing wildlife and plant species associations." (Or you could simply end the sentences after "ecologically".) This is general information and need not be referenced.

Comment: Pp 181-182 (Pine Ecology): It may be beyond the scope of this review to provide much detail here. However, perhaps a bit more information could be provided about Monterey pine ecology, particularly those attributes that may be 'defining', unusual, or germane to conservation efforts. I provide a draft narrative below that should be edited as the authors see fit.

Comment: Page 185 (Threat to Resources): This is a key section and I suggest expanding it, or at least providing key threats in a bulleted form to emphasize that each one is a threat in itself. I would also suggest a more parallel presentation of the different threats, with subcategories as appropriate. So, for example, 'pampas grass' and 'pine pitch canker' are two examples of two subcategories of the general threat of 'exotic invasive species'. I would indicate here that the pitch canker threat is covered in more detail later (page 186-187), but probably condense that section somewhat in keeping with the overall topic of threats, and also expand some of the other threats. For example, for the exotic invasive plant species, one could indicate the reason that they are a threat, and refer to some of the more serious exotic invasive plant problems in native Monterey pine forests (e.g., Table 13, page 59, Rogers 2002). That table is not comprehensive and may be out-of-date but gives a good representation of most of the more serious problems. So, for example, one could present the threats as follows:

- Direct loss of habitat (conversion to other uses)
- Fragmentation of habitat
- Degradation of habitat (soil erosion, soil compaction, edge effects from developments, etc.)
- Changes in natural disturbances (e.g., fire suppression)
- Introduction of exotic invasive species (plants—e.g., iceplant, Cape ivy, Pampas grass, French broom, blackwood acacia, etc.; [See Table 1 at the end of these comments, reprinted from Table 13, page 59, Rogers 2002];
- Pathogens—e.g., fungus associated with pitch canker disease, etc.
- Genetic contamination: from plantings of nonlocal Monterey pine along roads, in city parks, etc.
- Climate change
- Pollution
- Genetic erosion: through loss of trees, degradation of habitat that may negatively impact natural regeneration, and inbreeding as a result of habitat fragmentation.

Comment: Page 186 (third paragraph): I'm not sure that I would agree that the primary effect from fire suppression is "forest crowding and reduced forest vigor". Rather, fire suppression has undoubtedly changed the nature of natural regeneration: for example, rather than dramatic regeneration events following a fire, where the understory would have been cleared and large amounts of seeds would have been released from the semi-serotinous cones, regeneration would have been more gradually and on smaller scales. This has unstudied genetic and forest health consequences. If by 'forest crowding', the authors mean buildup in the understory of exotic invasive plant species (which may be the case in some areas), that should be stated clearly.

Comment: I'm not sure what is meant by the phrase "genetic destabilization" or "hybridized pine stock". I expect these statements are meant to refer to genetic contamination; that term, rather than 'genetic destabilization', should be used here. Unless otherwise defined, 'hybridized stock' often means interspecific hybridizations—which I'm sure the authors did not intend. Rather, I would couch this comment in terms of the concerns about historic (and possibly ongoing) introductions of nonlocal Monterey pine—the seed having been collected originally from other (e.g., Cambria or Año Nuevo) populations and planted in the Monterey area. This practice has the potential to undermine the local adaptations of the local native Monterey pines.

Even seed from the Monterey area—if planted in areas that differ strongly in features such as soil type or microclimate—could be considered 'nonlocal' if they are adapted to an environment that differs substantially from the environment into which they are planted.

Comment: Pp 186-187 (Pine Pitch Canker): Although the general information provided in this section is well-founded, some of the main and most compelling points are under-stated, and others are mildly misleading. For example, the main point in this section should be that pine pitch canker is a dramatic example of what can happen when an exotic invasive pathogen is introduced to the pine forests. There has been highly mortality, but the lack of total mortality is not because of any direct intervention on our part—at best, we slowed the spread of the disease. Rather, the remaining healthy forests and recovering forests are the result of natural resilience and some genetic diversity in response to this pathogen. We did not develop any cures, effective treatments, or engineer any genetic resistance. This point should be emphasized because it is reasonable to assume that there may be future introduced diseases or insect threats, and the ability of the pine forest to emerge from those challenges will be based on whether the forest has sufficient health and genetic diversity—and not likely based on much that we do. Further, it is financially unfeasible and highly impractical to believe we can develop treatments or cures for all such possible threats, or could deliver them effectively at a forest-wide scale.

Comment: I disagree with one specific statement (first paragraph, page 187) that "It thus appears that it is critical to limit the spread of the fungus until a treatment is identified or diseaseresistant stock is available." Rather, any apparently disease-resistant or partially-disease resistant stock (i.e., I say 'apparently' or 'partially' because resistance in the longterm is not yet known; and resistance to new pathogen types or variants is unknown) has come directly from the forest itself (e.g., seedlings grown from native trees, not engineered in any way). And there are many equally 'resistant' seedlings already growing in the forest without any intervention on our part. All we are doing, is identifying some level of resistance in some trees, and scaling up that source of resistance. I do not perceive that we are waiting for a treatment to be developed; rather, the main source of forest recovery is the natural genetic diversity and forest ecosystem functioning ... As is stated on page 204 "The best solution to combat pitch canker is to preserve the habitat and encourage regeneration of Monterey pine with the hope of natural resistance in the future." Let me emphasize: any resistance, putative resistance, or partial resistance in any stock that is being called 'pitch canker resistant stock' is natural resistance: we are just scaling up genetic variants that have been identified as having some resistance to the disease. As such, the foundation of pine pitch canker resistance, is the natural and healthy condition of the forest itself, and that is what we need to nurture and protect to fend off future epidemics. Indeed, there is a direct relationship here: the more habitat and trees that are lost, the more that natural regeneration is impacted, the more genetic diversity is lost ... the less likely it is that the Monterey pine forest will be able to withstand and recover from the next exotic invasive pathogen, insect, or other threat.

Comment: Page 187-190 (Responses to Threats): Because many of the activities listed in this section are <u>indications of concern</u> about the Monterey pine forest habitat, and less so any direct impact on the forest, I'm wondering if a better title for this section might be: 'Indications of Concern' or 'Reactions to Increased Threats'. For example, the petition to have Monterey pine listed as 'threatened' was withdrawn; the 18 recommendations in the University of California

report (Rogers 2002) have not been carried out—there are just recommendations and there is no body responsible or with the authority to implement this suite of recommendations. The Monterey Pine Forest Watch group is active in education and advocacy—because of the serious concerns about the worsening condition of the local Monterey pine forests. So these are as much 'symptoms' of a worsening situation as they are in any way a 'response' or improvement. My concern here is that the activities listed be clearly understood as 'advocacy', 'education', 'research' or such, unless otherwise indicated, and not direct improvement of the forest health or conservation status.

One suggestion is to begin that section with: "Since 1988, continuing and new impacts on the Monterey pine forest have prompted the drafting of a petition in 1999 to have the species listed as 'threatened', the passing of a State Senate Bill and formation of a Task Force to address pine pitch canker, the organization of a symposium in 1996, the formalization of a previously *ad hoc* group to serve as advocates and public educators for the Monterey pine forest, a higher-risk rating by the California Native Plant Society, and the founding of a university-based organization to improve the use of science in Monterey pine conservation."

Comment: Small point: on page 189 the authors refer to the non-profit *Monterey Pine Forest Watch* as having "work[ed] since 1992 to educate policymakers ...". While an ad hoc precursor of this group has been doing education and advocacy on behalf of the pines since 1992, the group did not become a nonprofit until recently (2000 perhaps?).

Comment: Page 191 (Pine Policy 32): It is concerning that trees less than 12 inches in diameter seem to have little protection. It might be beneficial to make a strong statement near the beginning of the report that the foundations of a healthy pine forest ecosystem (for any of the plant species, not just the pines) are maintenance of natural processes (pollination, seed dispersal, etc.), maintenance of genetic diversity, and protection of conditions for natural regeneration. When trees less than 12 -inches in diameter are not valued, this undermines the entire natural regeneration process. Abundant seed production, seed germination, and adequate seedling growth are prerequisites to local adaptation. Natural selection—not human intervention—should be deciding which seedlings survive to adulthood and contribute to the next generation. Without this, pine adaptation is undermined. Natural regeneration must be protected, not just mature trees. Policies that focus only or primarily on mature trees are focused on the present generation only and not longterm forest health.

Comment: Page 210 (Factors in identifying Monterey Pine Forest ESHA): One sentence requires rewording: "Coupled with the uncertainty of climate change, and the relative lack of knowledge about the genetics of Monterey pine, it is difficult to fully understand the status of the Monterey pine forest health, and whether it is effectively adapting to the environmental changes within and around it." The important points in this sentence are perhaps lost. First, although there is uncertainty about the nature of climate change, there is certainty that change is happening at an accelerated rate and it will have serious consequences. Coastal areas in particular are expected to have dramatic impacts including increase in sea level, increase in storm penetration inland, increased erosion, etc. (e.g., King 2004). This will no doubt put increased pressures on all species ... and although we don't know exactly what that pressure is, we know it is pressure. And the best way to prepare for it, is to have a healthy, intact, well-buffered functioning forest and

healthy populations of its constituent species. If species are already very vulnerable because of small population sizes, low genetic diversity, or little remaining habitat, they will not be well-equipped to deal with climate changes. Secondly, the point about 'lack of knowledge about the genetics of Monterey pine' is confusing. Elsewhere it is stated in this periodic review that there has been significant new genetic knowledge for this species. I think the intended point is that we don't know how much the natural levels of genetic diversity in this species have already been impacted by harvesting and development, mortality from pitch canker, and genetic contamination. However, there have certainly been impacts, including loss of genetic diversity. An alternative comment here could be: "The accelerated pace of climate change, the historical migration response of Monterey pine to climate change, and the certain loss of genetic diversity from direct harvesting and other impacts, suggest that conserving the diversity and habitat that remain is critical for longterm viability of the pines and associated species."

Comment: "More recently, research by Deborah Rogers recommends ..." As this was not really research, but a literature review and analysis, and as this is not a personal comment, but a finding in a University of California report, I recommend the sentenced be restructured as follows: "More recently, one of the recommendations within a University of California report (Rogers 2002) is the designation of genetic reserves for Monterey pine ..." "The scientific basis for reserves is clear on the point that the larger the reserve, the more likely ..."

Response: These detailed comments by an expert in the field are noted and will be useful in any future analysis and revisions to the draft periodic review report findings on Monterey pine. In the interim, should staff receive additional inquiries concerning the Monterey Pine sections of the report, they will also be referred to the information in this letter.

The following comments are made on various recommendations:

Comment: SH-29.9: Continue Monterey Pine Forest Research. Many different entities find value or have interests in the native Monterey pine forests. Thus, I'm not sure it is appropriate to just focus on the 'governmental and non-profit agencies' here to suggest they support research. I understand that universities may fall under a government category, but there are also private universities and other entities (tourist industry, grant-making foundations, individuals, etc.) who have interests and perhaps, responsibilities in this area. I'm not sure I would suggest the type of research that is most important, or give examples (e.g., genetic diversity, pitch canker). The latter has received significant research funding to date; the former is one of a constellation of information gaps. Perhaps this recommendation could be reframed as follows: There are many information gaps in our understanding of the ecology of Monterey pine forest habitat. Scientific research in this area benefits our ability to effectively conserve this habitat. All those with interests and responsibilities for Monterey pine forest habitat protection should be encouraging and assisting further scientific research—in any way that is within their reach (funding, conducting research, providing access to sites, etc.). The ability to positively influence the amount and quality of research, then, rests not only with universities, but with government agencies, nonprofit organizations, grant-making foundations, businesses, and individuals.

Response: This comment refers to Recommendation SH-29.9 Appendix D that states:

SH-29.9 Continue Monterey Pine forest research: Governmental and non-profit agencies, that have an interest in habitat protection (along with Monterey County) should continue to support research into ways to preserve and enhance the pine forest including addressing pine pitch canker and genetic diversity.

Commission staff agrees with comment that this recommendation is not written to apply to all the appropriate players and therefore staff is suggesting that it be revised (see revised recommendation SH-29.9 in Addendum)

Comment: SH-29.10: Consider listing pine as threatened.

Although the intent of this recommendation is understood, I think it may be misdirected. That is, a petition must be presented to either the Department of Fish and Game or the Fish and Wildlife Service for either of those agencies to consider listing Monterey pine as threatened. Undoubtedly, if they were presented with such a petition, they would respond with appropriate process. So if this recommendation is to stand, perhaps it should be reframed to indicate that: Both the US Fish and Wildlife Service and the Department of Fish and Game could provide additional protection to Monterey pine and associated habitat if it was listed federally and statewide, respectively, as threatened; and

ii) For those agencies to enact their protections, a credible listing petition must be presented. Those individuals and organizations with the expertise to prepare such a petition should consider whether such action is warranted at this time, and continue to review the status of the species and their decision over time.

Response: This comment refers to Recommendation SH-29.10 that says:

Consider listing pine as threatened: The USF&WS and/or the State Department of Fish and Game should consider listing Monterey Pine as threatened or endangered.

Staff consulted the website of the USFWS (http://endangered.fws.gov/listing/listing.pdf) which notes in a February 2001 public information document that the USFWS usually nominates listing proposals, but also may start the listing with a petition from anyone. As a result staff is not recommending any modifications to Recommendation SH-29.10 at this time.

Comment: SH-29.11: Coordinate management of protected pine forest. Although this sounds like a good idea in principle, in its imagined implementation, it concerns me. The 'management structure' suggested is vulnerable to political influences. Further, coordination of management could lead to 'one size fits all' approaches that could be insensitive to the different qualities and needs of various forest areas, and the different 'types of forest and pine tree occurrences (e.g., urban street trees, parks with planted pines, small fragmented areas of native habitat, larger forest areas surrounded by development, large relatively natural forest areas). One of the problems in 'forest management', as discussed earlier, is the tendency to use traditional 'forestry' skills rather than recognizing the objective of 'forest ecosystem conservation' and the suite of expertise that that requires. How does one ensure that the 'management structure' is apolitical, focused on the appropriate management objectives, sensitive to the differences among the forest areas, and cognizant of the scientific expertise required for management? Finally, it is a standard principle in genetic conservation that one needs to minimize risk by not having 'all one's eggs in one basket'. That is, different reserves, under different ownership and management

regimes—while not ideal—will presumably mean that all reserves won't fail from a flawed management approach.

If California Coastal Commission staff are aware of a good example of this kind of approach, perhaps it could be given as an example. I'm not aware of any. Minimally, I think this recommendation should be softened to suggest that different agencies and groups with land management responsibilities meet regularly to discuss the science and technologies of managing the pine habitat—as a support for keeping up to date on new information and interpreting that information for management. As discussed earlier, this is a challenging role. Note that the *Monterey Pine Forest Ecology Cooperative* does not specifically address management applications (intentionally) as this quickly becomes political, and is tied to management objectives. Rather, the *Cooperative* provides opportunities to for those interested to learn about the science underlying the species and processes of the Monterey pine forest (and associated) habitats.

Response: This comment refers to Recommendation SH-29.11 Appendix D that says: SH-29.11 Coordinate management of protected pine forest: Del Monte Forest Foundation, along with Monterey County and other entities, should cooperate in establishing a management structure to oversee all the Monterey pine forest, including that on portions of developed parcels. Since there are few easements that allow for third party management over many of these parcels, a mechanism would have to be developed to allow some co-operative oversight of private properties to develop and carry out forest management plans. This approach would require funding and cooperation among many public and private entities. It would also require continued scientific study to determine how to best replicate natural forest regeneration conditions.

Commission staff understands the concerns expressed in this comment about the potential pitfalls of management. However, in Del Monte Forest virtually all the pine forest put in protective status is under the auspices of the Del Monte Forest Foundation. The long-term implementation of forest management plans, including over Foundation held easements, is the responsibility of the individual property owner. While staff can agree with part of the comment that some different management entities and strategies may be appropriate, we recognize a need for some level of coordination and cooperation that could result from implementing staff's recommendation.

V. COMMENTS FROM THE OCEAN CONSERVANCY, KAITILIN GAFFNEY; FRIENDS OF THE SEA OTTER AND VENTANA CHAPTER, SIERRA CLUB, D'ANNE ALBERS; SAVE OUR SHORES, JANE DELAY; AND AMERICAN CETACEAN SOCIETY MONTEREY BAY CHAPTER, CAROL MAEHR

Comment: <u>Desalination</u>: Our organizations strongly support the addition of coast wide policy standards to guide review of any proposed desalination facility as recommended in your staff report. In addition, we urge that the LCP require County participation in the Monterey Bay National Marine Sanctuary's regional planning approach to consideration of desalination throughout the central coast region. Our organizations are extremely concerned about the potential site specific and cumulative impacts associated with desalination facilities and urge that

the LCP contain policies adequate to ensure that the marine and coastal environment is fully protected from any adverse impacts associated with desalination. Such impacts include both direct impacts to the marine environment such as those associated with impingement, entrainment, discharge and intake construction, as well as indirect impacts to coastal and marine resources that are associated with the growth inducing aspect of an increased water supply. Finally, we urge that additional LCP policies be adopted that ensure that any effort to provide for future water supply in Monterey County, including desalination, be considered and permitted only in the context of a comprehensive water management plan that includes efforts to continually improve water conservation and reclamation technologies and uses.

Response: Commission staff believes that the comment is addressed in Recommendation LU-9.4 that suggests policies that desalination facilities must be designed, sited and located as part of a comprehensive regional management program that includes conservation and recycling and that is based on adequate land use planning and growth projections.

Comment: Big Sur Coast Highway Management Plan: Our organizations support your staff recommendations regarding the Big Sur Highway Management Plan. We are particularly concerned with potential impacts of highway maintenance activities on stream crossings where careful planning and construction are required to ensure that riparian values are not adversely affected. We are also concerned about landslide management, particularly the practice of sidecasting landslide debris, which can have adverse impacts on riparian habitat, beaches, bird and marine mammal habitat, and intertidal communities. We support your staff's recommended LCP language regarding landslide management and urge that the California Coastal Commission and Monterey County work closely with Cal Trans and the Monterey Bay National Marine Sanctuary to avoid and reduce impacts of Highway 1 maintenance activities on coastal resources and the marine environment.

Response: Comment Noted

Comment: Environmentally Sensitive Habitat Areas. Our organizations support your staff's recommendations regarding improving protection of snowy plover habitat and sand dune habitat. We particularly support policies that prevent development on dune habitat and adoption of a comprehensive sand dune management plan that would contain strategies to restore and protection this important and endangered habitat.

Response: Comment Noted

Comment: Water Quality and Marine Resources

Our organizations support increased efforts to ensure that activities on land are planned and mitigated so that they do not adversely affect water quality. Such efforts include stepped up enforcement of the Monterey County erosion control ordinance, expansion of efforts to control non-point source runoff from both agricultural and residential lands, and programs to restore and protect degraded watersheds. We support the recommendations regarding water quality and marine resources contained in your staff report and are particularly appreciative of the recommendations regarding improved control of golf course runoff. We urge that the Monterey County LCP clearly prohibit golf course runoff from containing pollutant levels that could be

damaging to aquatic or marine organisms or other beneficial uses and require that all golf courses implement water quality monitoring programs capable of documenting compliance with water quality objectives.

Response: Comment Noted

Comment: Riparian Issues: Our organizations support adoption of management plans for the Salinas River, Tembladero Slough, Pajaro River, and Carmel River. These rivers all present challenging flood control and habitat protection issues. We urge that the Monterey County LCP prioritize riparian habitat restoration and protection designed to protect species and reduce water quality impacts. The County should be required to pursue alternatives to lagoon breaching and structural flood control efforts and instead encourage addressing flooding problems by acquiring flood easements on agricultural fields, relocating structures in flood prone areas, and prohibiting new development or reconstruction in flood prone areas.

Response: Suggested recommendations CH-10.2, CH-11.3, CH-12.2 and CH-13.2 all address the need for consideration of adequate alternatives to breaching and measures to consider habitat protection needs.

Comment: Shoreline Protection Devices: It is well documented that seawalls, revetments, and other rigid erosion control structures destroy beach and dune ecosystems, increase erosion on adjacent properties, and hinder public access to and along the shore. Our organizations urge the Coastal Commission to recommend that the Monterey County LCP be revised to disallow shoreline protection structures and urge the county to develop a policy on planned retreat. We also urge Monterey County to be an active participant in the Monterey Bay National Marine Sanctuary's region-wide Coastal Armoring Action Plan.

Response: Commission staff believes the proposed regional shoreline management strategy and consideration of alternatives in suggested in recommendations CH-8.1, 8.2 and 8.3 as well as recommendations under Coastal Hazard Issues CH-1 through CH-5 in Appendix A (pp. 148-160) will minimize impacts of shoreline armoring. The Coastal Act does not say to prohibit all shoreline protective devices. Suggested recommendation CH-8.4 recommends support of the MBNMS Coastal Armoring Action Plan.

VI. COMMENTS FROM MONTEREY PINE FOREST WATCH, Lisa Smith

Comment: GENERAL COMMENTS ON FINDINGS:

1. The MPFW applauds the Draft LCP incorporation of recent scientific research regarding the international significance of our native Monterey Pine Forest natural communities. The Draft LCP correctly notes that much has been learned about the ecological values provided by native stands of Pinus radiata and that large tracts of this forest type are required to adequately safeguard this natural community during future climatic changes, development pressures, and infestations of pathogens. Sound science has guided the preparation of the Draft LCP recommendations. As our scientific understanding of the unique Monterey pine microhabitats

and related geomorphic surfaces has and continues to increase, the development of commensurate conservation strategies has and must continue to become more sophisticated. We have much to learn about the complex dynamics of this rare ecosystem.

- 2. The Draft LCP correctly notes that the cumulative impacts of pine pitch canker, subdivision, and incremental fragmentation have damaged the integrity of Monterey Pine Forest habitat and decreased the viability of meaningful, long-term management strategies that work to promote the maintenance of natural ecological processes. Firm new LCP policies must be implemented to arrest the ongoing process of attrition of Monterey Pine Forest habitat and to protect what remains from further destructive impacts.
- 3. We applaud the fundamental pine forest conservation goal that is articulated in the Draft LCP: the objective of the updated LCP policies is to conserve <u>forest habitat</u> and large tracts of the Monterey pine <u>forest</u> ecosystem. Monterey pine is correctly described in the Draft LCP as an indicator species of environmentally sensitive habitat that encompasses a forest ecosystem.
- 4. The MPFW is pleased that the suggested LCP update includes all Monterey Pine Forest habitat on the Monterey Peninsula as ESHA, which is consistent with the ESHA designation in the Año Nuevo and Cambria stands of this unique forest type. As suggested, the definition of ESHA must be updated and standardized in order to provide consistent protection for this rare forest resource.

Response: These detailed comments are noted and will be useful in any future analysis and revisions to the draft periodic review report findings on Monterey pine. In the interim, should staff receive additional inquiries concerning the Monterey Pine sections of the report, they will also be referred to the information in this letter.

Comment: Maritime Chaparral.

5. The MPFW applauds the increased attention to Maritime Chaparral habitat included in the Draft LCP. Maritime Chaparral is often associated with Monterey Pine Forest. We suggest that ESHA guidelines for Maritime Chaparral communities include specific mention of the unique habitat areas that occur within Del Monte Forest, on the Aguajito property flanking Jacks Peak Park, and on the ridges between San Jose and Malpaso Creeks south of the Carmel River. These areas support very high quality Maritime Chaparral stands and concentrations of listed plant species that should be protected through LCP policy. Consideration should be given to including the remaining vacant privately owned parcels that support high quality Maritime Chaparral in a Transfer Development Credit program that spans the greater Monterey Peninsula area, as proposed for North County chaparral parcels.

Response: The comment refers to recommendations made with regard to central maritime chaparral. Although the analysis of maritime chaparral used North County as a case study area, the recommendations are intended to apply countywide, including in Del Monte Forest, as suggested by the commenter.

Comment: Specific Comments: Suggested corrections to text:

Pg. 178, paragraph 3, last sentence..."over the last 100 years." This process of destruction and fragmentation has been going on particularly since the turn of the 20th Century.

Pg. 184, paragraph 1, 2nd sentence..."A large section above Spanish Bay is covered by middle-aged dunes"...if you are referring to Areas 8c and b.

Pg. 190, footnote 65, "B & C (57 ac): mostly middle-aged dunes;"

Response: These detailed comments are noted and will be useful in any future analysis and revisions to the draft periodic review report findings on Monterey pine. In the interim, should staff receive additional inquiries concerning the Monterey Pine sections of the report, they will also be referred to the information in this letter.

Comment: Appendix D Issue SH-29.9... We would recommend the addition of wording that supports research into the complex ecology of the Monterey Pine Forest.

Response: This comment refers to Recommendation SH-29.9 that states:

SH-29.9 Continue Monterey Pine forest research: Governmental and non-profit agencies, that have an interest in habitat protection (along with Monterey County) should continue to support research into ways to preserve and enhance the pine forest including addressing pine pitch canker and genetic diversity.

Staff agrees with comment that this recommendation should be revised in the manner suggested (see revised recommendation SH-29.9 in Addendum)

Comment: Appendix D of Dec 2003 Draft Findings, Issue SH-29.11... We would recommend caution in implementing any coordinated management structure to oversee all Monterey Pine Forests, especially in light of our lack of clear understanding of the ecological processes at work within the forest and its associated habitats. Before putting such a structure in place we ought to have considerably more knowledge than we presently possess. Since the dynamics of this rare ecosystem are not well understood, our track record in managing the pine forest has not reflected sound ecological practices, and without this knowledge we could end up harming the forest despite our good intentions. Certainly the input of knowledgeable local persons should be an essential ingredient in whatever process of establishing management regimes or structures is envisioned.

Response: This comment refers to Recommendation SH-29.11 that says:

SH-29.11 Coordinate management of protected pine forest: Del Monte Forest Foundation, along with Monterey County and other entities, should cooperate in establishing a management structure to oversee all the Monterey pine forest, including that on portions of developed parcels. Since there are few easements that allow for third party management over many of these parcels, a mechanism would have to be developed to allow some co-operative oversight of private properties to develop and carry out forest management plans. This approach would require funding and cooperation among many public and private entities. It would also require continued scientific study to determine how to best replicate natural forest regeneration conditions.

Staff understands the concerns expressed in this comment about having good information and assume that the managers would use the best available information. However, in Del Monte Forest virtually all the pine forest put in protective status is under the auspices of the Del Monte Forest Foundation. The long-term implementation of forest management plans, including over Foundation held easements, is the responsibility of the individual property owner. While we can agree with part of the comment that some different management entities and strategies may be appropriate, we recognize a need for some level of coordination and cooperation that could result from implementing our recommendation.

Comment: As shown by your detailed case studies, current county and city preservation efforts have been ineffective, resulting in the steady degradation of Monterey Pine Forest habitat. When new definitions and policies for the protection of Monterey Pine Forest ESHA are put in place, we recommend implementation of a serious inspection process to insure follow-up and long term compliance with mitigations for any development permits, and we favor stiff fines for non-compliance. It may be a good idea to create a public watchdog commission to insure agency and public compliance with preservation and other requirements.

Response: Comment noted

Comment: We recommend a greater emphasis on the importance of the viewshed values of the forest. Despite policies protecting the public viewshed and its mention in development permits, the public viewshed from Pt. Lobos and Carmel have undergone a dramatic degradation since LCP certification.

Response: Commission staff recommendations suggest strengthening a variety of LCP policies regarding protection of scenic resources.

VII. COMMENTS FROM FRIENDS, ARTISTS AND NEIGHBORS OF ELKHORN SLOUGH (FANS) Mary U. Akens

Comment: The County of Monterey has previously processed coastal development permit applications for development projects within the Coastal Zone of North Monterey County, under amended provisions of the LCP that had not been certified by the Coastal Commission. For example, a 1996 uncertified amendment, allowed the County to deem development applications complete without requiring proof of assured long-term water supply. Recently, a Draft Environmental Impact Report ("DEIR") was circulated on the proposed Sunridge Views subdivision project. The Sunridge project is unable to assure a long-term water supply because of the North Monterey County's severe overdraft crisis. It is, therefore, axiomatic that if the proposed Sunridge project is unable to assure a long-term water supply, then the proof of an assured water supply requirement was not satisfied. For this reason, FANS believes that all subdivision applications being processed under the 1996 proof of water amendment may not be complete and are, therefore, out of compliance with the LCP.

Response: To date the Commission has not received a complete LCP amendment package covering any of the County actions to modify the General Plan, LCP and Title 19 of the County Code regarding proof of water availability. Therefore, the provisions of the certified LCP that require proof of an assured long term water supply prior to the filing of a subdivisions application remain in effect. Recommendations suggest updating the LCP policies to incorporate more explicit language for restricting new subdivisions in LU-8.1 and should determine appropriate offsets as recommended in LU-8.3. However, The periodic review report emphasizes that a multi-pronged approach is need to work toward achieving coastal act objectives and suggests that the County clarify the policy against further subdivision until there is an adequate water supply.

Comment #1: Groundwater Overdraft Protection

FANS believes that no further new residential subdivision development should occur in North Monterey County. Additionally no new cultivation of agricultural lands should occur consistent with the Elkhorn Slough at the Crossroads Report, which states:

(K) Strengthen County policies that: (a) discourage conversion of any naturally vegetated area within Elkhorn Highlands into new cultivated agriculture, (b) encourage landowners to retire agriculture on slopes exceeding 20%, to stabilize fallow fields from erosion and over time to restore habitats, (c) encourage landowners to control invasive non-native species throughout their property, and (d) discourage development within 100 meters of maritime chaparral to avoid conflicts between management and habitat protection.

Response: Recommendation SH-28.1 recommends deletion of LUP policy 2.3.3.A.2 which allows conversion of maritime chaparral for residential uses on slopes less than 25% and which discourages, but allows conversion of maritime chaparral to agricultural uses. Recommendations SH-28.2 through 28.6 and ESHA recommendations in Appendix A also address this comment. Commission staff will revise recommendations in Appendix A and in SH-28.4 to be consistent in recommending a minimum of 100 feet for setbacks, which allows for the possibility of greater setbacks if recommended by site specific biological evaluations. (see Addendum with revisions above). The Commission has generally determined setbacks of a minimum of 100 feet to be consistent with ESHA protection policies.

Comment #2: Taking Agricultural Lands Out of Production to Offset New Residential Groundwater Demand.

The Coastal Commission's Draft Staff Report correctly recognizes the County's policy of removing agricultural lands from production to offset new residential water demand. For instance, the proposed Sunridge subdivision project claims to offset its water usage by removing productive agricultural land. Future potential alternatives to the severe groundwater overdraft issues include a pipeline connection to the Central Valley Project. Any connection to the CVP, however, would not necessarily benefit residential development within North Monterey County. Additionally, the County Health Department has also recognized that even when development demonstrates water savings over previous use, citizens may still be put at risk. FANS recommends that the Coastal Commission update the LCP to protect citizens from risk even if development (whether residential or commercial) demonstrates water savings over

previous use – such as agricultural use. During times of severe drought, or until the ground water overdraft issues are resolved, agricultural land can be fallowed to protect the water supply. Residential uses commit the limited groundwater supplies to a permanent and less flexible regime of water use.

Response: Commission staff believes Recommendations LU-8.1 through LU-8.7 address this concern while recognizing the need to avoid potential takings when considering development on existing subdivided lots. The recommendations do not suggest that County health standards regarding quantity or quality of groundwater be lessened in any way.

Comment #3: Secondary Units

Appendix A of the Draft Findings focuses on Caretaker Units. Senior Citizen Units also increase or intensify water use. Therefore, any final recommendation regarding secondary units should also include Senior Citizen Units.

Response: As proposed in the Recommendations LU-8.1, water offsets would apply only for the first residence on a lot.

Comment: Protections to Elkhorn Slough

Although FANS supports most of the Coastal Commissions recommendations, FANS opposes any recommendations that may negatively effect Elkhorn Slough, such as filling wetlands. Recommendations for filling wetlands are also inconsistent with the Coastal Act policies requiring the protection of environmentally sensitive habitat areas.

Comment #4: No Wetland Infill in Elkhorn Slough

Recommendations for traffic circulation improvements to Highway One may have significant negative environmental impacts on Elkhorn Slough. The Coastal Commission should therefore, reconsider its proposed recommendations to fill wetlands within the protected Elkhorn Slough.

Response: Recommendations LU-13.9 and LU-14.1 provide:

LU-13.9 Allow for incidental work in riparian and wetland areas: Add a provision to the LCP as follows: notwithstanding other policies, installation of minor culvert extensions and/or additional areas of fill for the purpose of maintaining Highway One may be permitted even if they cause disturbances within the stream and/or streamside vegetation (riparian habitat), only if the following circumstances apply:

- A. The improvement is necessary to protect human life or property, or to protect or restore wetland or other natural habitat values, or to maintain basic public access along the Big Sur Coast;
- B. There is no feasible less environmentally damaging alternative, including the "no project alternative," consistent with the transportation function of Highway 1;
- C. The improvement will not result in an increase in traffic capacity of the road;
- D. No significant disruption of habitat values will result, considering the local habitat system as a whole;
- E. No net loss of viable wetland or riparian habitat will result in the local habitat system (i.e., the coastal streams that cross the Big Sur Coast Highway corridor);

- F. No net loss of any other environmentally sensitive habitat area will result in the local habitat system;
- G. The project will maintain or enhance the functional capacity of the wetland or estuary; and
- H. Feasible mitigation measures have been incorporated to minimize other unavoidable adverse environmental effects.
- I. Improvements that cannot meet this or other LCP resource protection policies will require LCP amendments.

LU-14.1 Improve Highway 1 while maintaining two-lane configuration: Delete North County Land Use Plan policy 5.2.2.A and revise policy 3.1.2.1 and corresponding text and County Code provisions as follows: Highway One between Castroville and Salinas Road intersections shall remain a two-lane scenic road. The addition of through travel lanes, beyond the existing single lane in each direction, is prohibited. Necessary safety improvements that do not add travel lanes may be permitted, provided that the overall rural and scenic character of the roadway is not substantially altered. Safety improvements may include: alignment of Dolan Road with the Moss Landing Road intersection with some possible grade separation; improvement of the Springfield Road intersection with some possible grade separation; widening the existing motor vehicle travel lanes to a full 12 feet; paving shoulders up to 8 feet in each direction; adding or improving turnouts, paved pullouts, vista points, rest stops, trailhead parking areas, bus stops, shoulder tapers at intersecting roads, left turn safety pockets, merge lanes, access control features (i.e., frontage roads, median barriers, right-of-way fencing), and parkand-ride facilities. Also permitted are projects that maintain the existing scenic and rural character of the area and restore beneficial tidal circulation to the maximum extent feasible with a net restoration of productive wetlands in the Elkhorn Slough system, including highway realignment to avoid wetland encroachments (e.g., at Struve Pond); replacing long sections of wetland fill with causeways (e.g., at Bennett Slough and Moro Cojo Slough); and/or installing a new bridge span across Elkhorn Slough to provide the opportunity to reduce tidal flux to less-damaging pre-1946 levels.

All development must occur within the current Highway One right-of-way or elsewhere without disruption of adjacent agricultural lands. Notwithstanding North County Land Use Plan policy 2.3.2.1 and corresponding provisions, wetland fill to accomplish incidental safety improvements or restoration projects that do no increase the overall capacity of this highway segment, is permitted provided there is no feasible less environmentally damaging alternative and feasible mitigation measures have been incorporated to minimize adverse environmental effects. Required compensatory mitigation (see recommendations for Issues SH-6: Mitigation for Habitat Loss) shall favor restoration of wetland areas filled from past construction on Highway One in the vicinity of the proposed work. Restoration plans shall address complete restoration of wetland habitats affected and include monitoring, performance criteria, and contingency remediation measures to assure the success of the hydrologic and revegetation mitigations. Pursuant to policy 4.3.5.9, all other resource protection policies also must be fully followed.

Filing Requirement for Subsequent LCP Amendment. Requests to amend the LCP to allow any highway project that does not meet these criteria shall not be filed absent supporting documentation that demonstrates (1) a comprehensive regional planning process has been conducted (based on thorough and up-to-date origin and destination studies for the entire area) and has identified all feasible alternatives to the proposed project; (2) the project is necessary for addressing regional transportation needs; (3) all other feasible alternatives for meeting these regional transportation needs are exhausted, including: regional demand reduction (through measures such as reduced allowable zoning densities and encouragement of telecommuting); increased use of existing passenger and freight rail lines; improved transit service; more car-pool facilities; permanent signage and/or changeable message signs to encourage Highways 1 to 101 cross-over traffic to use less congested arterial roads east of Elkhorn Slough; identification of an east-of-Elkhorn bypass route to relieve the Santa Cruz-Salinas component of traffic demand; linkage of existing County roads west of Highway 1 to provide an alternative route for farm equipment movements; identification of a west-of-Highway 1 scenic byway linking existing County roads, to provide a bypass alternative for recreational traffic and improved access to Zmudowski State Beach; and encouragement of non-motorized transportation, especially through linking existing bikeways to complete the Monterey Bay Sanctuary Scenic Trail around the perimeter of the bay; (4) policies are incorporated to ensure that impacts to agricultural lands, environmentally sensitive habitat areas, including wetlands, from any additional projects allowed by the LCP amendment will be avoided, minimized and/or mitigated to the maximum extent feasible; and (5) an analysis of impacts to Agricultural lands, if the viability of existing agricultural uses is an issue, following the specific requirements of Coastal Act Section 30241.5.

These recommendations do not propose the filling of wetlands. Rather, they do not preclude the possibility of necessary incidental work under certain conditions consistent with Coastal Act protections and required mitigation.

Comment: Chapter 3: Environmentally Sensitive Habitat Areas

Subdivision development continues to be proposed adjacent to stands of maritime chaparral. It is unclear whether the County is correctly implementing setback requirements.

Comment #5: Setback requirements.

FANS agrees that the North Monterey County's Land Use Plan must be updated so that clear setback requirements are implemented. However, FANS believes that the recommended setback should be consistent with the Elkhorn Slough Crossroads Report "discourag[ing] development within 100 meters of maritime chaparral..." North Monterey County's Coastal Implementation Plan must also be updated to indicate a clear setback requirement to protect maritime chaparral to the fullest extent possible also consistent with the Elkhorn Slough Crossroads Report.

Response: See Response to FANS Comment # 1 above.

Comment #6: Set Back Requirement Should Be In Addition to Fire-Hazard Clearing Requirements.

Any recommended setback for maritime chaparral should be in addition to the required state-mandated vegetation removal firebreak (i.e., 30-foot), which must occur outside the existing line of maritime chaparral. In other words the state-mandated firebreak setback should not be written in a way to allow property owners to remove 30 feet of chaparral to meet state fire code requirements.

Response: Siting and design standards for new development can more easily ensure that development will avoid impacts to ESHA in complying with fire code requirements. Recommendations CH-9.1 through CH-9.5 together will minimize impacts to ESHA from implementation of fire standards. However, policies may need to address existing development that cannot comply with restrictions limiting impacts to ESHA. SH-28.4 and CH-9.2 together ensure that vegetation clearance will allowed in ESHA only where no other fire reduction measures are feasible or sufficient and provided measures are implemented minimize removal of vegetation and mitigate unavoidable impacts.

Comment #7: Prohibition of vegetation removal within ESHA.

Recommendation 28.4.B.2.a.(2) states that no new development shall be allowed in ESHA, including, but not limited to major vegetation removal, landscaping and grading, unless necessary for fire safety. The recommendation also references CH-9.3, however, CH-9.3 relates to Big Sur. Therefore, this recommendation regarding the potential of removal of vegetation within ESHAs is ambiguous and may be inconsistent with recommended LCP amendments regarding maritime chaparral setbacks. See also Comments 5 and 6.

Response: Reference will be corrected to refer to CH-9.2 which addresses minimizing and mitigating vegetation clearance required for existing development throughout the coastal zone.

Comment: Chapter 4: Water Quality and Marine Resources Erosion Control

FANS supports the Coastal Commissions recommendations regarding erosion control.

Comment #8: Protection of Elkhorn Slough from Sedimentation

Recommendations for LCP updates should incorporate and be consistent with the Elkhorn Slough at the Crossroads report. The Crossroads report states as follows:

The hills surrounding the estuary are highly susceptible to erosion. The natural Resource Conservation Service (NRCS) has documented on hillside strawberry fields an average erosion rate of over 33 tons per acre per year, one of the highest rates of erosion west of the Mississippi River. Without proper management, the sediments and agricultural chemicals carried by this erosion eventually make their way into the estuary. Proper management of upland areas throughout the Watershed is extremely important, both to the health of the estuary, as well as to the long-term sustainability of the Watershed's rich agricultural resources.

Response: While various water quality recommendations address this issue in some cases the County may not be the agency with lead responsibility. Recommendations in Appendix D of the December 2003 *Draft Findings* suggest actions that other agencies should take to ensure protection of water quality as follows:

WQ-8.5 Use PG&E settlement funds for most critical erosion problems: Organizations receiving funds from the PG&E settlement should coordinate with agencies and others studying the impacts of erosion and non-point source pollution on coastal resource of the Elkhorn Slough complex including Moss Landing Harbor (e.g., Coastal Commission, State Coastal Conservancy, Elkhorn Slough Foundation and Moss Landing Marine Laboratories). Consultation should occur to identify the priority problem areas (i.e., high erosion or contaminant inputs) and the projects that shall have the greatest effect on protecting these coastal resources.

WQ-8.6 Prepare agricultural management plans: Agricultural operators should prepare agricultural management plans consistent with the framework established under the comprehensive resources plan (see Recommendation WQ-8.2).

WQ-8.7 Expand the Environmental Quality Incentives Program: The Natural Resources Conservation Service should continue to fund and staff the EQIP program to the level needed to address non-point source pollution in the North County planning area.

WQ-8.8 Evaluate success of permit coordination program: In applying for an extension of the Elkhorn Slough Watershed Permit Coordination Project, the Natural Resources Conservation Service and the Resource Conservation District of Monterey County should provide an evaluation of how practices are chosen from the perspective of erosion and runoff prevention and minimization of work in sensitive habitat areas for the authorizing agencies (e.g., the Coastal Commission, Monterey County Planning and Building Inspection Department) to review and to adjust the application for extension accordingly.

Comment: Nitrate Loading

Although the draft findings and preliminary recommendations include some information regarding the water quality issues of nitrate infiltration due to agricultural practices and septic systems, there are additional issues that need to be reviewed and analyzed to ensure protection of North Monterey County's groundwater.

Existing wells in the North Monterey County are being contaminated by nitrates. As a result, contaminated wells are being abandoned and new wells are being installed deeper into the aquifer. Installation of a new well may not need a discretionary permit. It is unclear whether the deeper wells are capped at a level that would ensure protection from the contamination of the deep aquifer or how long the new wells will be operable due to continued nitrate leaching.

Comment #9: Contamination of Deep Aquifer

The Coastal Commission should review, analyze and make recommendations regarding the installation of deep wells and the potential to contaminate the deep aquifer.

Response: Comment noted. This issue was not specifically analyzed as part of this review. At the present time resources are not sufficient to conduct such a review.

Comment #10: Well Longevity

The Coastal Commission should review, analyze and make recommendations regarding the issues raised by the potential longevity of new wells prior to nitrate contamination due to continued nitrate loading and the potential impacts to the deep aquifer.

Response: Comment noted. This issue was not specifically analyzed as part of this review. At the present time resources are not sufficient to conduct such a review.

Comment: Non-Point Source Pollution

FANS supports the Coastal Commission's opinion that the preservation of maritime chaparral habitat and prevention of groundwater depletion will help control non-point source pollution impacting Elkhorn Slough.

Comment #11 Consistency is Necessary to Protect the Elkhorn Slough

Although the Coastal Commission opines that recommendations suggested for prevention of groundwater depletion and preservation of maritime chaparral will help protect the Elkhorn Slough from non-point source pollution, it appears these recommendations have not been incorporated into the proposed LCP recommendations. FANS believes that recommended updates to the LCP regarding protections to groundwater, maritime chaparral, and water quality work harmoniously to provide the fullest protections possible to Elkhorn Slough and North Monterey County as a whole. Protection of one resource must not negatively impact another resource. In other words, any LCP amendment that may prevent groundwater depletion, must also protect maritime chaparral and vice versa.

Response: It is correct that separate recommendations are proposed for ESHA protection and water quality but the intent is that all applicable recommendations be incorporated into the LCP so that comprehensive protections are provided when taken as a whole. However, as noted in the Response to Comment #8 above, certain actions necessary to provide comprehensive protection are outlined in Appendix D and are the responsibility of agencies other than the County. In these cases recommendations suggest the County should coordinate with other agencies in these efforts.

Comment #12: Filling of Wetlands Within Elkhorn Slough May be Inconsistent With Protections Against Non-Point Source Pollution.

FANS opposes the filling of any wetlands or riparian area adjacent to or connecting to Elkhorn Slough or any of its tributaries. Any recommendations allowing the filling of wetlands within or adjacent to Elkhorn Slough for road improvements are inconsistent with the Coastal Act policies requiring the protection of environmentally sensitive habitat areas.

Response: Refer to response to Comment #4 above

APPENDIX 1:

List of Comment Letters Received Regarding the Monterey County LCP Periodic Review

DATE	NAME	AGENCY
12/5/03	Janice M. O'Brien	(individual)
12/7/03	David Dilworth, Executive Director	Helping Our Peninsula's Environment (HOPE)
12/09/03	Fernando Armenta, Chair	Monterey County Board of Supervisors
12/8/03	Linda McIntyre, General Manager/ Harbormaster	Moss Landing Harbor District
12/10/03	Lisa Kleissner	Coast Property Owners Association (CPOA)
1/26/04	Dr. Deborah Rogers	Genetic Resources Conservation Program University of California
2/24/04	Kaitlin Gaffney; D'Anne Albers; Jane DeLay; Carol Maehr	The Ocean Conservancy; Friends of the Sea Otter and Ventana Chapter, Sierra Club; Save Our Shores, American Cetacean Society
2/12/04	Linda Smith	Monterey Pine Forest Watch
2/12/04	Mary Akens	Law Office of J. William Yeates for Friends. Artists, and Neighbors of Elkhorn Slough

RECEIVED

DEC 0 8 2003

CALIFORNIA COASTAL COMMISSION CENTRAL COAST AREA

December 5, 2003

Mr. Rick Hyman Coastal Commission 725 Front St. Suite 300 Santa Cruz, Ca. 95060

Dear Sir :

Pursuant to the hearing on Dec.10 regarding proposed changes to Monterey County development rules, I wish to make the following comments.

The Local Coastal Plan for Del Monte Forest has been inconsistent in relation to its individual elements from its inception. The Policies in the Resource Element and Visual Element are totally at odds with the Land Use Element. The protection of the pine forest is a priority in the LCP. Yet the development plans down through the years consistently sacrificed the forest to overdevelopment. The current plan which calls for yet another 18 hole golf course will devastate the remaining significant stands of pine forest

I urge the Commission to strengthen these safeguards in the face of irresponsible decisions by our elected officials. With the looming budget deficit in our County, we cannot continue to ignore the waste of staff time and taxpayer money this flagrant abuse represents.

Respectfully, Home M. O. Snew

Janice M. O'Brien

Box 1037

Pebble Beach , Ca. 93953

(831) 625-1386

HOPE - Helping Our Peninsula's Environment

Box 1495, Carmel, CA 93921 831/624-6500

Info@1hope.org www.1hope.org

Coastal Commissioners Coastal Commission

December 7, 2003

Regarding: Monterey County Local Coastal Plan Update

Dear Commissioners,

HOPE strongly supports most of the Monterey pine forest ecosystem protection recommendations. Your staff report does a first class job of recognizing --

- 1) The seriously endangered state of our Monterey pine forest ecosystem,
- 2) Its continuing decline due to development, and
- 3) The almost total lack of legal protection for our Monterey pine forest ecosystem.

Please allow us to add to a few points in your staff report.

The United Nations Declares Monterey pine forest ecosystem Endangered in 1986.

In 1986, before Pitch canker was found in California, the United Nations Department of Food and Agriculture, which sets international policy for forest protection, recognized the situation on a global scale and declared Monterey pine an Endangered Species.

Independently, and without knowing of the United Nation's declaration, the California Native Plants Society strengthened its concern of Monterey Pine by rating it "1B". Their only stronger rating is "1A" which means extinct - gone forever - like the Mammoth.

We solidly support the recommendation - "Monterey pine forest habitat should be treated generally as ESHA unless site-specific circumstances and biological review show otherwise." This is painfully obvious to anyone who examines the natural history and ecology of Monterey pine forest ecosystems.

We have included some sample language for a Monterey pine forest ecosystem protection ordinance.

Monterey Pine Ecosystem Protection Proposal

The attached ordinance was drafted by David Dilworth of HOPE using improvements provided by recommendations from many ecologists including -- bird, animal, plant and forest ecologists.

It has also had the benefit of improvements suggested by a respected land use attorney and an administrative law attorney. It was sent to almost 50 people for review and suggestions.

A coalition of conservation groups endorsed and gave this proposed ordinance to Supervisor Potter more than a year ago (March 12, 2002) - but he has yet to lift a finger to provide the desperately needed protection for our vanishing forests. I have left 3 phone calls for Supervisor Potter on this exact subject since August this year and he has yet to return any of those calls.

Trustees 2003 Dena Ibrahim Holly Kiefer Ed Leeper Vienna Merritt-Moore Terrence Zito

Founding Trustees

Terrence Zito Darby Worth Ed Leeper Robert W. Campbell David Dilworth

Science Advisors

Dr. Hank Medwin, Phd

- Acoustics Dr. Susan Kegley, Phd

- Hazardous Materials & Pesticides

Dr. Arthur Partridge, Phd.

Forest Ecology

Founded in 1998, H.O.P.E. is a non-profit, tax deductible, public interest group teaching environmental science and law and public participation to citizens and advocating for protection of our Monterey Peninsula's natural land, air and water ecosystems. Printed On 35% Post-Consumer Recovered Fiber.

41-3

Reckless County Development

We share Monterey County with hundreds of animals and plant species. <u>Forty nine</u> <u>animals 19 trees and plants are imperiled</u> to the point of needing official protection by Federal and State laws <u>because Monterey County has failed to adequately protect them.</u>

These species have fortunately survived the years-long, arduous process of receiving official listing under Federal and State Endangered Species Acts, Fully Protected laws and Special Status species lists.

Yet, these 68 species are merely the officially recognized ones. Experts know of many more local species needing official protection and know there are other species we will never know of before we cause them to go extinct - gone forever.

We may eventually clean up our pollution and find new water sources - but when an animal goes extinct - it is gone from our planet, gone our solar system, gone from our galaxy - forever.

Forever!

Dozens of animals species are crying out for our help.

Please allow us to thank your staff for all the animals and plants who cannot speak.

For more information please see --

Monterey Pine Forests
Pine Pitch Canker
Monterey County General Plan

www.1hope.org/pradiata.htm www.1hope.org/ppc.htm www.1hope.org/mgpuel.htm

Sincerely,

David Dilworth, Executive Director

Founded in 1998, <u>H.O.P.E.</u> is a non-profit, tax deductible, public interest group teaching environmental science and law and public participation to citizens and advocating for protection of our Monterey Peninsula's natural land, air and water ecosystems.

Printed On 35% Post-Consumer Recovered Fiber.

Draft VIII Proposed County Monterey Pine Forest Protection Ordinance

FINDINGS

Whereas our native Monterey pine forest ecosystem is important locally and internationally for its intrinsic, aesthetic, ecological and economic values; it is officially recognized as Endangered by the United Nations and the California Native Plant Society due to its substantial decline from continuing development, fragmentation, lot clearing, and pathogen attacks including the pine pitch canker fungus. These significant circumstances require immediate meaningful protection.

Aesthetic Values

Whereas native Monterey pine forests define the look of the Monterey Peninsula landscape. They are majestic to behold both from a distance and within the tree where one can experience the beauty, bird songs and serenity of fragrant untouched forests.

Economic Values

Whereas the beauty of the native Monterey pine forests has drawn millions of tourists and residents to our Monterey Peninsula. Its biodiversity contains a broad genetic foundation for a vast international timber industry, which has generated tens of billions of dollars.

Intrinsic Values

Whereas the biota has value in addition to its economic, aesthetic and ecological benefits. The very existence of the unique Monterey pine forest community has intrinsic value and is worth preserving. The native vegetation type, associated habitat and soils have adapted to local conditions that have evolved over millennia.

Ecological Values

Whereas the native Monterey pine forest is ecologically more than the sum of its parts. The Monterey pine forest is a dynamic system where all of its indigenous constituents, from soil to canopy, animals and plants, living and otherwise, are in appropriate proportions and locations supporting interconnected and interdependent life forms which include a broad diversity of tree, plant, soil and animal species, communities, ages, and genetics.

Its Ecological Values include -

All Living Trees - Seedlings, Old Trees and Dead Trees.

As a Monterey pine grows larger or matures, its landmark and habitat values increase which reinforce that there is no biologically or ecologically recognized concept of "overmature." Native Monterey pine forests have provided habitat for Grizzly Bears and Condors, and continue to provide habitat for Woodpeckers, Squirrels, Great Horned Owls, Eagles, Peregrine Falcons, Possums, Deer, Bobcats, Mountain Lions, and Black Bears.

The forest moderates temperature extremes and prevents drying by shading the ground and understory from the hot drying sun, protecting it from the prevailing winds and moistening it with fog drip.

Areas of healthy regeneration with high densities of seedlings also have great value, as the seedlings promise future landmark trees and adequate genetic diversity to fend off future pest attacks.

Dead Standing Trees

Some 80 bird species make their homes exclusively in dead or dying trees. For example, native Hairy Woodpeckers will not nest in living Monterey pine trees. Especially important to Woodpeckers are dead standing trees, particularly large snags, or living trees with especially large dead, or dying branches. If trees are cut before they die, or if dead standing trees "snags" and dead wood are cleared from the forest, the woodpeckers abandon the habitat. Thus, the greater risk of destruction of dying trees, the greater the endangerment to the native woodpecker and others with similar habitat needs.

Understory

More than 30 officially listed and legally protected plants live in the Monterey Pine Forest Ecosystem understory including the Gowan Cypress, the delicate orchid Yadon's Piperia, Hickman's Onion, the extremely rare Hickmans' Potentilla, Monterey Clover and Pacific Grove Clover. Additionally, small ground dwelling animals such as the Gray Fox, Ringtail, Opossum and Striped Skunk need the understory cover to hide from predators.

Fallen Trees

Fallen trees are part of the forest understory, providing important habitat for ground dwelling animals, spiders, worms, millipedes and helpful microorganisms including bacteria and fungi.

Living Soils

Native Monterey pine forest ecosystem soils can be one million years old and contain over 1,000 distinct microorganism species in a cubic inch. The unique forest floor is perfectly suited to Monterey Pine seedling regeneration as well as that for the other endangered plants, which depend upon the whole forest for protection and nourishment. Orchids and some trees are extremely dependent upon tiny mycorrhiza fungi. Living soils and their structure are easily destroyed by compaction from heavy equipment and can be suffocated by roads blocking rain runoff from infiltrating ground to nourishing their microorganisms.

Endangered, Rare & Declining

Monterey pine forests only grow naturally in five limited locations worldwide, totaling about 3,000 hectares, much of which is degraded by fragmentation, logging, and pests. The Monterey Peninsula area hosts the largest and healthiest of these remaining native areas.

Mitigation measures offered in response to previous loss of Monterey pine forest have proven inadequate. The immediate loss of tons of magnificently integrated living biomass cannot be replaced by planting a handful of seedlings outside the fog belt of the forest's native range. It cannot replace the forest's million year old soils replete with a native structure of understory plants and microorganisms.

Declining

Whereas alarming amounts and portions of the historic native Monterey pine forest habitat have been lost to development of roads and buildings, lot clearing, fragmentation and attacks from pathogens including bark beetles and the pine pitch canker fungus.

Whereas the Monterey pine tree and its forest were recognized as Endangered by the United Nations in 1986,

Whereas the California Native Plant Society, legislatively recognized for its expertise, deemed the Monterey pine as only one step away from extinct in 1994 as "Endangered or Rare in California and elsewhere."

Whereas the native Monterey pine tree and its forest are continually threatened by further loss of its native habitat area from development, lot clearing, fragmentation, and cumulative tree trimming which singly and collectively increase the risk of harm from pests including bark beetles and the pine pitch canker fungus.

Tree Trimming Harmful

While trimming pine trees may seem innocuous, it releases turpenes. The scent of turpenes can attract swarms of bark beetles, which can carry the pine pitch canker, and in sufficient numbers can kill Monterey pines, especially those weakened by pine pitch canker.

LAW

Therefore -

The native Monterey pine forest ecosystem shall be protected from further loss and harm until the County General Plan Update is final. Its ecosystem shall be defined to include all of its native animals, trees, understory plants and soils - whether young or old, dead or dying, standing or fallen, and all of their parts.

No part of a native Monterey pine forest ecosystem shall be killed, damaged, moved, trimmed or such affected parts possessed until the County General Plan Update is Final, unless it has a specific exemption and approval limited to those explicitly described below.

Proper Expert - Forest Ecologist

The Department of Environmental Health shall hire a Forest <u>Ecologist</u> to advise and consult with all county departments and other agencies on the application of this ordinance.

EXCEPTIONS

Emergency Risk and Hazard Exception

An individual tree which is an emergency risk to life or property is not fully protected but shall require 1) approval by the Department of Environmental Health's Forest

Ecologist, 2).a photograph of the tree and soil around its roots and 3) immediate public notice even if after the tree is removed.

An up-to-date map of all cumulative permitted Monterey pine forest ecosystem biomass modification shall be maintained.

Fire Prevention Exception

Individual trees which are required to be trimmed or cut by fire protection ordinances are not fully protected but shall require a discretionary permit and undergo environmental review to include mapping of trees before and after biomass alterations.

Outside Native Habitat Range Exception

Monterey Pine trees growing more than a mile inland of the mapped boundaries of the historic forest extent are not fully protected but shall require a discretionary permit and undergo environmental review to include a map of their location. Mapped boundaries are all native Monterey pine forest areas identified on maps prepared by Huffman (1994), Roy (1966), Forde (1964), Dunning (1916), McDonald (1959) and other areas outside the Monterey Peninsula supported by historic documentation (e.g. Little Sur, Doud Ridge).

Planted Trees Exception

Individual trees clearly planted for tree farms, ornamental or landscaping purposes are not fully protected but shall require a discretionary permit and undergo environmental review to include mapping of trees before and after. This exception does not apply to native trees planted or set-aside for mitigation purposes.

Exotic / Invasive Plant Exception

Exotic or invasive trees or plants are not protected but shall require a discretionary permit limited to taking only the exotic plants and undergo environmental review to include mapping of trees before and after biomass alterations. The County shall consult a list of exotic and invasive plants prepared by the California Native Plants Society.

Enforcement

Violations of this ordinance shall be assessed by weight of living material - biomass. The fine shall be \$1 per pound of Monterey Pine Forest Ecosystem biomass harmed: Each violation exceeding 10,000 pounds of biomass removal shall be a felony. The fines shall be used only for enforcement of this ordinance or purchase of native Monterey pine forest land. Each act of harm of understory plant or animal listed officially as a Special Status species shall be a fine of \$1,000. Each violation exceeding 10 plants or animals shall be a felony.

Intervenor Compensation

When successful enforcement of this ordinance is brought and accomplished by any person or entity other than Monterey County the successful plaintiff is to be awarded \$5,000 civil penalty from defendant and any other fees and costs deemed appropriate by the court including those awarded pursuant to Code of Civil Procedure Section 1021.5

MONTEREY COUNTY

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CALIFORNIA COASTAL COMMISSION CENTRAL COAST AREA

December 9, 2003

Mr. Mike Reilly, Chair C/o Mr. Charles Lester, Deputy Director California Coastal Commission Central California District Office 725 Front Street, Suite 300 Santa Cruz, CA 95060-4508

Re: California Coastal Commission, December 2003 Agenda, Item 7(a) – Monterey County Periodic Local Coastal Program Review Public Hearing.

Dear Mr. Lester:

The County of Monterey, Board of Supervisors does hereby respectfully request that Item 7(a)-Monterey County Periodic Local Coastal Program Review Public Hearing currently scheduled for December 10th in San Francisco, California be tabled until the Commission's March meeting in Monterey. The Board objects to the Commission receiving a presentation from staff and opening the public hearing given the short time we have had to review this item.

We are in receipt of the Staff Report on the Periodic Review of the Monterey County Local Coastal Program dated November 26th and distributed by the Santa Cruz office. The fact that the staff report was distributed on November 26th, just one day prior to the Thanksgiving holiday, has put an undue and unreasonable burden on our staff and the Board of Supervisors to analyze the proposed recommendations, compare them to the current state of Monterey County's Local Coastal Program, consider them with respect to the current status of our on-going General Plan

Mr. Charles Lester California Coastal Commission 9 December 2003 Page 2

Update, and prepare our comments and a presentation for the Commission within just six working days of the December 10th hearing. We are particularly concerned because many of the staff proposals appear to result, when evaluated cumulatively, in unconstitutional and unsubstantiated takings that, if implemented, would expose the County to millions of dollars of liability for no appreciable environmental benefit.

A cursory inspection of the staff report shows that our Board and the staff of the Coastal Commission are traveling down gravely divergent paths with respect to many of the twenty-eight specific issue areas cited in the staff report. A few examples, which are not, by any means, exhaustive, follow:

LU-9.2 Do not allow private water supplies in Cal-Am service area (page 37)

This constitutes an unconstitutional and illegal taking of water rights. The County of Monterey may arguably be left to pay for the groundwater rights for every legal lot of record in the Carmel Local Coastal Program. Someone not familiar with the law of groundwater rights may have prepared this proposal.

LU-9.4 Add review criteria for any proposed desalination facilities (page 37)

Monterey County has an ordinance that requires that any desalination plant be owned and operated by a public entity. The Commission staff appears not to be aware of this ordinance, which was adopted in 1989. The criteria for a proposed facility should not only be "public as warranted by application of Coastal Act policies" but also that the proposed facility be a legal land use as warranted by local code. The Coastal Commission is required to acknowledge and not promote any violation of the County's ordinance and the Local Coastal Program should reflect this fact (Cal-Am is not a public entity, it is a privately-owned enterprise.)

<u>LU-11.1 Re-designate Elkhorn Slough Foundation parcel to Resource Conservation (page 39).</u>

APN 133-221-007 is currently zoned Recreation and Visitor Serving Commercial. The parcel has been annually used for two decades by the Moss Landing Antique Fair as a parking lot. Re-designation would, in effect, shut down the Antique Fair and severely harm the seventeen charities that derive benefit from the Fair. A single review by your staff of the history of Moss Landing would have revealed the grave damage this proposal will cause to the Moss Landing Community and the public charities that depend upon it.

Mr. Charles Lester California Coastal Commission 9 December 2003 Page 3

LU-11.2 Update Moss Landing Community plan (page 39)

There appears to be no justification to update the Moss Landing Community plan with the cited changes because the components of the recommendations are merely restatements of the current policy. However, there is a thinly veiled objective within the staff's proposed changes to undermine the development of visitor-serving facilities in the Moss Landing Community. The Department of Boating and Waterways has given public funds to the Moss Landing Harbor District for this expressed purpose based on the existing policies in the existing program, and altering these policies after the fact to restrict publicly owned visitor-serving facilities may not only be unethical but may have consequences that undermine the principle that justified the adoption of the *Coastal Act* over two decades ago: the protection of the public's right to access the coastal resources.

<u>LU-11.3 Avoid or minimize datage to marine organisms from seawater pumps (page 39)</u> The Board of Supervisors, the California Regional Water Quality Control Board, and the State Water Resources Control Board have sole authority to set, enforce and permit public health ordinances, water quality standards and NPDES facilities. The Coastal Commission does not have any statutory or legal authority to set or enforce these standards. The Commission staff should review the *Porter-Cologne Act*, the *Federal Clean Water Act*, and the *California Government Code* before proposing such policies to Monterey County.

SH-29-7 Manage forests to address pine pitch canker (page 58).

Monterey County does not have the resources to satisfy the staff's proposal to map all the trees in the county at this time. Further, current evidence appears to indicate that pine pitch canker may be peaking, and more research is necessary before intelligent and implementable policies can be proposed for the *Local Coastal Program*.

In view of the foregoing, we request an additional sixty days for the purpose of giving your staff's report a thorough examination and review so that our Board's representatives can make a knowledgeable presentation before the Coastal Commission at a later date. The Board of Supervisors feels that it is very important to identify, before the Coastal Commission, as many issues as possible and present our case before your staff's Periodic Review of the Monterey County Local Coastal Program moves further along in its process. We apologize for the late notice. We hope that the Coastal Commission considers our request favorably, particularly in the interest of the historic cooperation on Local Coastal Program issues between our county and your commission.

Mr. Charles Lester California Coastal Commission 9 December 2003 Page 4

Sincerely,

Fernando Armenta

Chair, County of Monterey

Board of Supervisors

CC: Coastal Commission Members

Peter M. Douglas, Executive Director, California Coastal Commission



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Russell Jeffries
Margaret Shirrel, Ph D.
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December 8, 2003

7881 SANDHOLDT ROAD MOSS LANDING, CA 95039

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DEC 1 3 2003

CALIFORNIA COASTAL COMMISSION CENTRAL COAST AREA

Via Facsimile: 415.904.5400

The Honorable Mike Reilly, Chair And Members of the Coastal Commission 45 Fremont, Suite 2000 San Francisco, CA 94105

Re: December 10, 2003 Agenda Item W 7 a

Dear Chairman Reilly and Members of the Commission:

This letter concerns Issue LU-11: Moss Landing Community Plan, as well as those subsections referred to therein.

At the outset, I would like the record to reflect that the amount of notice of the public hearing, considering there were two intervening week-ends and the Thanksgiving holiday, may have complied with the letter of the law but was wholly insufficient for individuals and agencies affected by these proposed changes to adequately review and respond. Furthermore, the discussion of Monterey County's LCP in the distant City of San Francisco creates a hardship and hinders the participatory process.

Second, I would like the record to reflect that many of the proposals are very harsh and economically damaging. Although your mission is to protect the coast and coastal habitat, it must be balanced with economic considerations and safety considerations. For example, proposed LU-11.3 (and LU-9.4), if implemented, will add unknown delay and no less than \$50,000 to the Moss Landing Harbor District's development costs at North Harbor, a project that has been tediously winding its way through the cumbersome and expensive permit process for years.

I believe that LU-11.2 is duplicative and again economically unreasonable because the Harbor District is already subject to restrictions on the use of its own land from numerous governmental agencies for dredge rehandling, as evidenced by the permit condition issued by the USFWS requiring that the District convert a 5 +/- acre parcel of its property, used ONCE for dredge material rehandling, to a spineflower habitat in perpetuity. This habitat project has cost some \$365,000 to date, and very few of the spineflower seedlings have germinated despite the expenditure of substantial sums of money, time and resources by professional plant biologists. The use of the land for any other purpose is prohibited.

Many of these recommendations before the Commission, if implemented, would constitute unfunded mandates. It would serve the public and those impacted by many of these recommendations well if you were to explore and provide funding support options concurrent with your policy recommendations.

Ultimately, my request is that you balance economy, safety and reason with your duty to protect coastal habitat, and that you take no action that affects the Moss Landing Harbor District without first meeting and discussing them with District officials.

Sincerely,

Moss Landing Harbor District

Linda G. McIntyre, Esq.

General Manager/Harbormaster

LGM:kp

C: Board of Harbor Commissioners Louis Calcagno, Supervisor, Monterey County

PAGE 2 OF 2

CPOA

Coast Property Owners Association P.O. Box 59 Big Sur, CA 93920

December 9, 2003

Mr. Mike Reilly, Chair California Coastal Commission Central California District Office 725 Front Street, Suite 300 Santa Cruz, CA 95060-4508

Re: California Coastal Commission, December 2003 Agenda Item 7(a) – Monterey County Periodic Local Coastal Program Review Public Hearing

Dear Mr. Reilly:

The 200 plus members of CPOA Big Sur wish to respectfully request that Item 7(a) – Monterey County Periodic Local Coastal Program Review Public Hearing, currently scheduled for December 10th in San Francisco, California be tabled until adequate review by the public and the County of Monterey has occurred and considerable content revisions are made to the current documents. Our concerns, and this is not an exhaustive list, are as follows:

- 1. There has been inadequate notice and presentation of the content of this review to the residents and staff of Monterey County.
- 2. There is confusion about which documents are the correct documents and where these documents are located for access by the public.
- 3. Many policy recommendations would result in a building moratorium and a take in Big Sur as well as other parts of the county.
- 4. Recommendations to prevent any further residential development in Big Sur are contrary to the wishes of the Big Sur community and contradict estimated residential development counts that were agreed upon at that time of the original LCP.
- Policy recommendations promoting further buyout of the Big Sur community are contrary to the wishes of the Big Sur community and would result in further reduction of already scarce local community resources.
- 6. Policy recommendations encourage development on State and Federal lands while limiting and discouraging development on private property clearly a double standard.
- 7. Policy recommendations do not address sorely needed permit streamlining to allow residents to maintain existing roads and structures resulting in unintended degradation to the natural and built

- environment as well as resulting in financial hardship to the residents of Big Sur.
- 8. The recommendation for more stringent ESHA policies will increase cost of development, result in takes and not necessarily result in preserving sensitive habitats. This recommendation is not grounded in sound scientific or biological research.
- Restricting development on any parcel if it can be seen from a public trail could result in massive takes of private property in Big Sur and is contrary to the wishes of the Big Sur community.
- 10. Many of the recommendations are contrary to recommendations made by the Big Sur LUAC's in consultation with County staff and Lee Otter and Rick Hyman of the Coastal Commission. We are greatly concerned that Rick and Lee did not share these issues with our group during the intense discussions regarding the GPU during the last five months.
- 11. Many recommendations have no nexus to the Coastal Act. This broadening of the Commissions powers and this blatant misinterpretation of the Coastal Act is inappropriate.

It is important for the California Coastal Commission to work in good faith with the citizens of Monterey County if we are to have a plan that is sustainable and balanced. The issuance of this document is a setback to what has been a productive process over the last five months. We want to know why the Coastal Commission staff wants to incite a divisive process instead of working cooperatively with the residents of Monterey County and particularly with the residents of Big Sur.

Respectfully,

Lisa Kleissner

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CALIFORNIA COASTAL COMMISSION CENTRAL COAST AREA

January 26, 2004

Rick Hyman
Deputy Chief Planner
Central Coast District
California Coastal Commission
725 Front Street, Suite 300
Santa Cruz, CA 95060

RE: Comments on 'Draft Findings of the Monterey County Local Coastal Program Periodic Review'

Dear Mr. Hyman:

I have reviewed portions of the 'Draft Findings'. I congratulate you and the other authors and contributors on the insight and expertise that informed this report, and the integrity that guided it. I have confined my review and comments to Issue SH-29: 'Protection of Monterey Pine Forest Habitat' (pages 176-216) and the three recommendations (under Issue SH-29) in Appendix D. To facilitate use (if appropriate) of my comments, I have used blue print for any information that could be directly used in revising your report. The normal black font is reserved for further explanation of my comments.

I've drafted and included with my comments a figure to show the various influences on the Monterey pine forest habitat. Although you are welcome to make use of it, if valuable, I'd appreciate an opportunity to discuss this with CCC staff to ensure it is unambiguous, and to have the benefit of their comments. I drafted it quickly, and it surely may benefit from some critical review.

I am happy to have this opportunity to assist with strengthening the scientific basis of local coastal programs.

Sincerely,

Dr. Deborah Rogers

Genetic Resources Conservation Program

Abovar Koguss

email: debrogers@ucdavis.edu

Phone: (510) 799-7653

Encl.

Comments on 'Draft Findings of the Monterey County Local Coastal Program Periodic Review'

I. Comments on Issue SH-29: Protection of Monterey Pine Forest Habitat (pp 176-216)

General Comments:

1. In the Overview (pp 176-178) the authors provide some general information about the Monterey pine forest habitat in Monterey County and some of the reasons that higher levels of protection (and this periodic review) are needed. I agree with the findings that this forest type must be managed and protected as a sensitive forest habitat, and not just as individual trees. Perhaps it can be more clearly stated that many of the 'values' of this forest habitat are a feature of a functioning forest ecosystem and not of individual trees (e.g., protection and food for wildlife, species reproduction, species diversity, soil stabilization, etc.).

Another general point on this topic that should be more prominently and emphatically stated is that planting trees is not a proxy or ecological equivalent to having trees regenerate naturally. Although planting trees is routinely used as a mitigation measure, it is a poor substitute (in the context of a healthy intact forest; the urban tree situation is a different context) for maintaining natural regeneration. If trees are not regenerating naturally in the forest, or are not allowed to (e.g., small trees are not protected and routinely are uprooted and cut down, or artificially 'thinned'), this constitutes a serious forest health problem. Abundant natural regeneration, adequate genetic diversity, and allowing for natural selection to take place are necessary for adaptation of plant species. Removing many seedlings or young trees, for example, undermines local adaptation. Interfering with any of these processes has an impact on long-term forest health.

Further, perhaps it can be stated here that a *change in emphasis* is needed because this trend of increasing development cannot continue indefinitely. That is, continuing to subdivide the 'pie' of ecologically sensitive habitat, or reducing the forest further with developments that leave a 'percentage' for conservation is a strategy with limited utility. Too soon we arrive at a point of conserving 50% of almost nothing. So review of development proposals, at some point must change to reflect the point of maximum allowable impact (or 'no new impact'). Thus, the authors may wish to suggest that the point has been reached where 'new development' would rarely be acceptable, and 'redevelopment' will be more the norm. Is that not the case if 50% of the habitat has already been lost? The term 'finding a balance' is often used when describing the process of making development vs. conservation decisions. If the 'balance' sought is 50:50, then no new development would be permitted. 'Balance' must take into account historical loss of habitat, not just remaining habitat.

2. The authors make the point in several places that there has been significant new information available for Monterey pine since the LCP was written. While true, there are several threads to this message that are better expressed if teased apart. First, it is a time-consuming process to bring relevant information from research into management practice and the Monterey County staff may not have the resources required to do this effectively.

This further emphasizes the critical role played by nonprofit and academic organizations that seek to infuse more science into ecosystem management. Second, there is a strong need for <u>additional</u> research on this species; there are many existing information gaps. Finally, yes, there is substantial new information since 1988 that should be incorporated into management plans. It seems that these points are worth separating to illustrate that the mere existence of information does not guarantee its consideration in LCPs or other plans.

- 3. Climate change (that is, in current parlance—the accelerated changes in climate that are related to human influences, particularly greenhouse gas emissions) has been an ongoing influence on all habitat types, including the Monterey Pine Forest Habitat. Although climate change is a function of both natural climatic cycles and human influences, this unnaturally high rate of change puts additional pressure on species. Climate change means that healthy ecosystems, genetic diversity, and large protected habitats and adjacent potential habitats (to allow migration) are more important than ever. The general point here is that 'new' and 'preventable' developments must be viewed in the context of 'historic' losses of habitat and negative influences, current and ongoing influences, and influences that cannot be easily prevented or controlled (e.g., climate change, pollution). As such, the 'impact' of proposed new developments must be weighed against the historic, continuing, and expected impacts from all sources -and not just the impact of that particular development (see Figure 1, attached). This gets to the issue of 'cumulative' impacts and is a key point that should be emphasized. I recognize that the Periodic Review contains this point on page 204, but it deserves more emphasis and a more prominent position in the report.
- 4. Authorities for developing, reviewing, and approving forest management plans that involve or include environmental sensitive habitats: Several points mentioned in reference to forest management plans (e.g., page 199) raise the point of appropriate expertise for developing and reviewing such plans. Terms or concepts such as 'pests' (without distinguishing between native insects that are part of a natural forest and exotic invasive insects that might require management intervention), 'over-stocking' (in reference to a high density of seedlings from natural regeneration), and 'fuels' (instead of understory and the ecological role of that understory) are concerning. In keeping with the well-based general recommendation of the Coastal Commission staff to approach habitat management and conservation from a 'whole forest' or 'intact ecosystem' perspective, the plans must reflect these objectives, rather than individual tree management. Further, the expertise applied to such plans must reflect an understanding of forest (or other ecosystem) functioning, rather than satisfying an objective of a 'production' or 'commercial' forest. The objective of obtaining a healthy, functioning, forest ecosystem requires considerable breadth of expertise—in forest ecology, hydrology, wildlife biology, plant reproductive biology, etc. It is doubtful that one individual possesses all of the necessary expertise. Further, a forestry degree—depending on when and where it was obtained, and what courses and experience comprised the academic program—does not necessarily reflect this expertise. Thus, it would better serve the objectives of forest management planning—where the interest is in providing for a functioning forest, with all of its component species and processes—to have a professional team develop the plans, a team that minimally includes an ecologist and a wildlife biologist, and with input from those with nutrient cycling, hydrological processes, climate, genetic, and other

- appropriate expertise. Monterey County and its neighboring regions are rich in intellectual resources pertaining to biological sciences and ecosystem management and should draw on these resources—from academic, agency, business, and nonprofit sources—without hesitation.
- 5. It could be better emphasized at the beginning that one of the guiding principles is that there must be different standards for protection for the Monterey Pine Forest habitat depending on the size, location, status, etc. For example, whereas encouraging natural regeneration (of the pine and other species) is critical for the larger intact forest areas, planting (genetically appropriate) Monterey pines is a good practice for more fragmented, smaller, or specifically urban areas. Further, whereas the loss of individual trees may be a reasonable currency by which to measure impact for street tree situations or small fragmented areas, it does not capture the loss of 'habitat' in larger forest areas.

Specific Comments

- 1. Pp 177-178: I suggest the last sentence on page 177 that finishes on page 178 be changed as follows: "This should include updated policies, standards, and management measures to address long-term preservation of identified habitat, protection of genetic diversity and integrity, management of exotic invasive species and their impacts (including pitch canker), [new development-delete] redevelopment within the forest canopy, and restoration of [suitable habitat areas delete] currently degraded areas that have habitat potential."
- 2. P 178: "The three California populations are geographically isolated and display genetic differences, as well as varying degrees of disease resistance." I assume that the authors wish to convey the idea that the populations are different from one another. However 'geographically isolated' could be taken to mean that they are distant from us rather than from one another; and displaying 'varying degrees of disease resistance' seems a bit of a nonsequitur, as well as causing confusion as to whether the 'variance' is within or among populations. I suggest this as an alternative sentence: "The three California populations are well separated from each other geographically, and are differentiated from each other genetically and ecologically—displaying genetic differences in such traits as resistance to various diseases and growth properties, and ecological differences including hybridization with other pine species and differing wildlife and plant species associations." (Or you could simply end the sentences after "ecologically".) This is general information and need not be referenced.
- 3. Pp 181-182 (Pine Ecology): It may be beyond the scope of this review to provide much detail here. However, perhaps a bit more information could be provided about Monterey pine ecology, particularly those attributes that may be 'defining', unusual, or germane to conservation efforts. I provide a draft narrative below that should be edited as the authors see fit:
 - "A complete description of the ecology of Monterey pine is beyond the scope of this review. Several good resources are available (e.g., Forde 1964a, 1964b, 1966; Lindsay 1932, MacDonald 1959). However, these reports focus on plant species and do not give

good descriptions of the wildlife associates of Monterey pine forests. An excellent resource that places Monterey pine—its ecology and genetic diversity—within the context of other pine species also is available (Richardson 1998).

Some of the defining, unusual, or particularly germane features of Monterey pine as affecting conservation efforts are as follows:

- Physically disjunct and genetically differentiated populations: Based on decades of research, many genetic differences among the three California populations of Monterey pine have been established. Taken together with the ecological differences among these populations, this suggests that each of the three populations require conservation if the integrity of the species is to persist. One population cannot represent the diversity of the species.
- Few populations, coastally restricted and insular: Whereas many western pine species are more widespread, Monterey pine has only three current populations in California. Their coastal location is also considered to be an indication of environmental restrictions: although individual trees can be maintained further north, south, and east through dedicated care (particularly watering), the native forest is probably restricted to the coastal fogbeit. The limited number, size, and location of the Monterey pine populations makes them more vuinerable than widespread species, and their conservation more critical.
- Evolutionary history: Over its life-time as a species, it appears that Monterey pine has been dynamic—changing its range in response to climatic triggers. In particular, it seems to have been expanding during mild/cool/wet periods and contracting during cold or hot/dry periods. Not only the location, but the size and number of Monterey pine populations have apparently been highly variable over evolutionary time. Given that the species is so climate-sensitive, conservation plans are more robust if they include conserving areas adjacent to current habitat and opportunities for the species to colonize.
- Fire ecology: Evidence of natural fire cycles in the prehuman history of California, together with such typical fire adaptations as serotinous or semi-serotinous cones, suggests a relationship between natural fires and Monterey pine. This natural association means that rather than being catastrophic, natural fires (i.e., natural in duration, intensity, and frequency) are compatible with-Monterey pine regeneration—opening the scales of the cones to release a plentiful seed crop, clearing other vegetation (particularly exotic invasive plant species) that would otherwise compete with pine seedlings, removing considerable tree canopy and allowing light to penetrate to the forest floor, sterilizing the soil from pathogens that might cause seedling mortality, etc. Although fire is not necessarily critical for a healthy and genetically diverse Monterey pine forest, the roles that fire historically played should be considered in developing management plans.
- v) Reproductive biology: Pines have both male and female flowers making it possible for individual trees to pollinate their own flowers (called 'selfing'). However, this is generally not a good practice for genetic diversity and tree vigor. This is one of many reasons that large groups of trees—creating a genetically

diverse pollen cloud—are important. Individual and isolated trees, or small groups of trees (particularly if they are related), are vulnerable to selfing.

Unlike many coniferous tree species, the cones of Monterey pine are held tightly on the trees and only occasional fall (or are gnawed off by squirrels or other animals in search of seeds). The scales of the cones flex open in response to fire or hot dry temperatures, distributing the seeds as they open. The scales can close again in response to cooler temperatures. As such, there is a seedbank in the canopy of Monterey pine forests, usually containing seeds produced in several or many different years. Thus 'bad seed years' do not necessarily have a negative impact on natural regeneration unless there are many such years in succession. Seeds are usually plentifully available (barring excessive harvesting by squirrels and other animals) and may not often be a limitation in natural regeneration (i.e., relative to availability of suitable habitat for seed germination and seedling growth, for example). This also simplifies seed collections for restoration activities.

- 4. Page 185 (Threat to Resources): This is a key section and I suggest expanding it, or at least providing key threats in a bulleted form to emphasize that each one is a threat in itself. I would also suggest a more parallel presentation of the different threats, with subcategories as appropriate. So, for example, 'pampas grass' and 'pine pitch canker' are two examples of two subcategories of the general threat of 'exotic invasive species'. I would indicate here that the pitch canker threat is covered in more detail later (page 186-187), but probably condense that section somewhat in keeping with the overall topic of threats, and also expand some of the other threats. For example, for the exotic invasive plant species, one could indicate the reason that they are a threat, and refer to some of the more serious exotic invasive plant problems in native Monterey pine forests (e.g., Table 13, page 59, Rogers 2002). That table is not comprehensive and may be out-of-date but gives a good representation of most of the more serious problems. So, for example, one could present the threats as follows:
 - Direct loss of habitat (conversion to other uses)
 - Fragmentation of habitat
 - Degradation of habitat (soil erosion, soil compaction, edge effects from developments, etc.)
 - Changes in natural disturbances (e.g., fire suppression)
 - Introduction of exotic invasive species (plants—e.g., iceplant, Cape ivy, Pampas grass, French broom, blackwood acacia, etc.; [See Table 1 at the end of these comments, reprinted from Table 13, page 59, Rogers 2002]; Pathogens—e.g., fungus associated with pitch canker disease, etc.
 - Genetic contamination: from plantings of nonlocal Monterey pine along roads, in city parks, etc.
 - Climate change
 - Pollution
 - Genetic erosion: through loss of trees, degradation of habitat that may negatively impact natural regeneration, and inbreeding as a result of habitat fragmentation.

5. Page 186 (third paragraph): I'm not sure that I would agree that the primary effect from fire suppression is "forest crowding and reduced forest vigor". Rather, fire suppression has undoubtedly changed the nature of natural regeneration: for example, rather than dramatic regeneration events following a fire, where the understory would have been cleared and large amounts of seeds would have been released from the semi-serotinous cones, regeneration would have been more gradually and on smaller scales. This has unstudied genetic and forest health consequences. If by 'forest crowding', the authors mean buildup in the understory of exotic invasive plant species (which may be the case in some areas), that should be stated clearly.

Secondly, I'm not sure what is meant by the phrase "genetic destabilization" or "hybridized pine stock". I expect these statements are meant to refer to genetic contamination; that term, rather than 'genetic destabilization', should be used here. Unless otherwise defined, 'hybridized stock' often means interspecific hybridizations—which I'm sure the authors did not intend. Rather, I would couch this comment in terms of the concerns about historic (and possibly ongoing) introductions of nonlocal Monterey pine—the seed having been collected originally from other (e.g., Cambria or Año Nuevo) populations and planted in the Monterey area. This practice has the potential to undermine the local adaptations of the local native Monterey pines. Even seed from the Monterey area—if planted in areas that differ strongly in features such as soil type or microclimate—could be considered 'nonlocal' if they are adapted to an environment that differs substantially from the environment into which they are planted. (Please let me know if you'd like to discuss this topic further.)

6. Pp 186-187 (Pine Pitch Canker): Although the general information provided in this section is well-founded, some of the main and most compelling points are under-stated, and others are mildly misleading. For example, the main point in this section should be that pine pitch canker is a dramatic example of what can happen when an exotic invasive pathogen is introduced to the pine forests. There has been highly mortality, but the lack of total mortality is not because of any direct intervention on our part—at best, we slowed the spread of the disease. Rather, the remaining healthy forests and recovering forests are the result of natural resilience and some genetic diversity in response to this pathogen. We did not develop any cures, effective treatments, or engineer any genetic resistance. This point should be emphasized because it is reasonable to assume that there may be future introduced diseases or insect threats, and the ability of the pine forest to emerge from those challenges will be based on whether the forest has sufficient health and genetic diversity—and not likely based on much that we do. Further, it is financially unfeasible and highly impractical to believe we can develop treatments or cures for all such possible threats, or could deliver them effectively at a forest-wide scale.

I disagree with one specific statement (first paragraph, page 187) that "It thus appears that it is critical to limit the spread of the fungus until a treatment is identified or disease-resistant stock is available." Rather, any apparently disease-resistant or partially-disease resistant stock (i.e., I say 'apparently' or 'partially' because resistance in the longterm is not yet known; and resistance to new pathogen types or variants is unknown) has come directly from the forest itself (e.g., seedlings grown from native trees, not engineered in any way). And there are many equally 'resistant' seedlings already growing in the forest without any intervention on our part. All we are doing, is identifying some level of resistance in some trees, and scaling up that source of resistance. I do not perceive that we are waiting for a

treatment to be developed; rather, the main source of forest recovery is the natural genetic diversity and forest ecosystem functioning ... As is stated on page 204 "The best solution to combat pitch canker is to preserve the habitat and encourage regeneration of Monterey pine with the hope of natural resistance in the future."

Let me emphasize: any resistance, putative resistance, or partial resistance in any stock that is being called 'pitch canker resistant stock' is <u>natural</u> resistance: we are just scaling up genetic variants that have been identified as having some resistance to the disease. As such, the foundation of pine pitch canker resistance, is the natural and healthy condition of the forest itself, and that is what we need to nurture and protect to fend off future epidemics. Indeed, there is a direct relationship here: the more habitat and trees that are lost, the more that natural regeneration is impacted, the more genetic diversity is lost ... the less likely it is that the Monterey pine forest will be able to withstand and recover from the next exotic invasive pathogen, insect, or other threat.

7. Page 187-190 (Responses to Threats): Because many of the activities listed in this section are indications of concern about the Monterey pine forest habitat, and less so any direct impact on the forest, I'm wondering if a better title for this section might be: 'Indications of Concern' or 'Reactions to Increased Threats'. For example, the petition to have Monterey pine listed as 'threatened' was withdrawn; the 18 recommendations in the University of California report (Rogers 2002) have not been carried out—there are just recommendations and there is no body responsible or with the authority to implement this suite of recommendations. The Monterey Pine Forest Watch group is active in education and advocacy—because of the serious concerns about the worsening condition of the local Monterey pine forests. So these are as much 'symptoms' of a worsening situation as they are in any way a 'response' or improvement. My concern here is that the activities listed be clearly understood as 'advocacy', 'education', 'research' or such, unless otherwise indicated, and not direct improvement of the forest health or conservation status.

One suggestion is to begin that section with: "Since 1988, continuing and new impacts on the Monterey pine forest have prompted the drafting of a petition in 1999 to have the species listed as 'threatened', the passing of a State Senate Bill and formation of a Task Force to address pine pitch canker, the organization of a symposium in 1996, the formalization of a previously ad hoc group to serve as advocates and public educators for the Monterey pine forest, a higher-risk rating by the California Native Plant Society, and the founding of a university-based organization to improve the use of science in Monterey pine conservation." (This may be too long: but I think that a list of the 'types' of activities to begin the section would be good.)

And as the authors write in the final paragraph on page 188, the petition to have Monterey pine listed as threatened is/was the "most significant" of these efforts. As such, I would begin this section with the listing petition.

On page 188, one could preface the information on the Rogers (2002) report with the fact that this report was motivated by concern over the increasing and cumulative negative influences on the native Monterey pine forests—in particular, the likely decline in genetic diversity and integrity as a result of habitat loss and other influences. (Note: the University of California program that published the report is concerned with ALL California species—

plant, animal, microbe, etc. So for this species and habitat type to be the focus of a substantial effort and report, there must be a serious concern.)

Small point: on page 189 the authors refer to the non-profit Monterey Pine Forest Watch as having "work[ed] since 1992 to educate policymakers ...". While an ad hoc precursor of this group has been doing education and advocacy on behalf of the pines since 1992, the group did not become a nonprofit until recently (2000 perhaps?). So one could address this by just calling it a 'group' or indicating that they have been doing this critical work since 1992 and became a formal non-profit in 2000 (check with Rita Dalessio or Linda Smith on this date.)

- 8. Page 191 (Pine Policy 32): It is concerning that trees less than 12 inches in diameter seem to have little protection. It might be beneficial to make a strong statement near the beginning of the report that the foundations of a healthy pine forest ecosystem (for any of the plant species, not just the pines) are maintenance of natural processes (pollination, seed dispersal, etc.), maintenance of genetic diversity, and protection of conditions for natural regeneration. When trees less than 12 -inches in diameter are not valued, this undermines the entire natural regeneration process. Abundant seed production, seed germination, and adequate seedling growth are prerequisites to local adaptation. Natural selection—not human intervention—should be deciding which seedlings survive to adulthood and contribute to the next generation. Without this, pine adaptation is undermined. Natural regeneration must be protected, not just mature trees. Policies that focus only or primarily on mature trees are focused on the present generation only and not longterm forest health.
- 9. Page 210 (Factors in identifying Monterey Pine Forest ESHA): One sentence requires rewording: "Coupled with the uncertainty of climate change, and the relative lack of knowledge about the genetics of Monterey pine, it is difficult to fully understand the status of the Monterey pine forest health, and whether it is effectively adapting to the environmental changes within and around it." The important points in this sentence are perhaps lost. First, although there is uncertainty about the nature of climate change, there is certainty that change is happening at an accelerated rate and it will have serious consequences. Coastal areas in particular are expected to have dramatic impacts including increase in sea level, increase in storm penetration inland, increased erosion, etc. (e.g., King 2004). This will no doubt put increased pressures on all species ... and although we don't know exactly what that pressure is, we know it is pressure. And the best way to prepare for it, is to have a healthy, intact, well-buffered functioning forest and healthy populations of its constituent species. If species are already very vulnerable because of small population sizes, low genetic diversity, or little remaining habitat, they will not be well-equipped to deal with climate changes. Secondly, the point about 'lack of knowledge about the genetics of Monterey pine' is confusing. Elsewhere it is stated in this periodic review that there has been significant new genetic knowledge for this species. I think the intended point is that we don't know how much the natural levels of genetic diversity in this species have already been impacted by harvesting and development, mortality from pitch canker, and genetic contamination. However, there have certainly been impacts, including loss of genetic diversity. An alternative comment here could be: "The accelerated pace of climate change, the historical migration response of Monterey pine to climate change, and the certain loss of genetic diversity from direct harvesting and other impacts, suggest that conserving the diversity and habitat that remain is critical for longterm viability of the pines and associated species."

"More recently, research by Deborah Rogers recommends ..." As this was not really research, but a literature review and analysis, and as this is not a personal comment, but a finding in a University of California report, I recommend the sentenced be restructured as follows: "More recently, one of the recommendations within a University of California report (Rogers 2002) is the designation of genetic reserves for Monterey pine ..." "The scientific basis for reserves is clear on the point that the larger the reserve, the more likely ..."

10. Pp 217: Consider including a boxed statement of information resources, as you have so effectively done on page 176 for the maritime chaparral habitat. Here, one could include the following:

For additional resources and more information regarding the ecology and genetics of Monterey pine, see bibliography located at: http://www.grcp.ucdavis.edu/projects/Mpbibliodex.htm

References cited in my comments are as follows:

Forde, M.B. 1964a. Variation in natural populations of *Pinus radiata* in California. Part 1. Sampling methods and branch characters. *New Zealand Journal of Botany* 2:213–236.

Forde, M.B. 1964b. Variation in natural populations of *Pinus radiata* in California. Part 2. Needle characters. *New Zealand Journal of Botany* 2:237–257.

Forde, M.B. 1966. Pinus radiata in California. New Zealand Journal of Forestry 11:20-42.

King, D.A. 2004. Climate change science: Adapt, Mitigate, or Ignore? Science 303, pp 176-177.

Lindsay, A.D. 1932. Monterey pine (*Pimus radiata* D. Don) in its native habitat. Bulletin No. 10, Commonwealth Forestry Bureau Report. Commonwealth Government Printer. Canberra, Australia.

McDonald, J.B. 1959. An ecological study of Monterey pine in Monterey County, California. M.S. thesis. University of California, Berkeley, CA.

Rogers, D.L. 2002. *In situ* genetic conservation of Monterey pine (*Pinus radiata* D. Don): Information and recommendations. Report No. 26. University of California, Division of Agriculture and Natural Resources, Genetic Resources Conservation Program, Davis, CA USA.

Table 1. Exotic plant species occurring in native Monterey pine forests in California. Reprinted from 'Rogers, D.L. 2002. *In situ* genetic conservation of Monterey pine (*Pinus radiata* D. Don): Information and recommendations. Report No. 26. University of California, Division of Agriculture and Natural Resources, Genetic Resources Conservation Program, Davis, CA USA'.

Species			Present (P) or Invasive (I) ²	
Scientific name	Common name	Año Nuevo	Monterey Peninsula	Cambria
Acacia baileyana A. melonoxylon A. longifolia	Bailey acacia Blackwood acacia Sydney golden wattle		P I P	P .
Ammophila arenaria Arctotheca calendula Arundo donax	European beach grass Capeweed Arundo, giant	I	I	P
Avena fatua Briza maxima	reed Wild oat Rattlesnake grass	I I	I I	I
B. minor Bromus diandrus	Small quaking grass Ripgut brome	P P	P I	Î
Carduus pycnocephalus Carpobrotus edulis Centaurea solstitialis	Italian thistle Iceplant Yellow star thistle	I I I	I I	I P P
Cirsium vulgare Conicosia	Bull thistle False iceplant	I	P P	P
pugioniformis Conium maculatum Cortaderia selloana	Poison hemlock Pampass grass	I I	I I	I
C. jubata Cynodon dactylon Cynosurus echinatus	Jubata Bermuda grass Dogtail grass	I	I	I P
Delairia odorata = (Senecio mikanoides)	Cape ivy, German ivy	Ī	I	I
Erechtites glomerata	Australian fireweed	I	I	
E. mimima	Australian fireweed	I	P	
Ehrharta erecta Festuca arundinacea Genista	Veldt grass Tall fescue French broom	I	I P I	P I
monspessulana	Fiench broom	1	1	1

Hedera helix	English ivy	P	I	P
Holcus lanatus	Velvet grass		P	
Hypericum	Canary Island	I		
canariense	hypericum			
Lolium perenne	Perennial ryegrass	P	I	
Oxalis per-caprae	Bermuda	P	P	I
• •	buttercup			
Pennisetum	Kikuyu grass		I	I
clandestinum	<i>J</i> • <i>J</i>			
P. setaceum	Crimson			P
	fountain grass			
Phalaris aquatica	Harding grass	P		P
Polypogon spp.	Rabbit foot	P		P
7. 0 1.	grass			
Tetragonia	New Zealand	P	P	
tetragonioides	spinach			
Ulex europaeus	Gorse	I	I	
Vinca major	Periwinkle	I	I	P
J				_

¹This is not a comprehensive list. See Rogers (2002) for more details about how the table was produced.

²Present (P) means that the species has been positively identified within a particular Monterey pine population. Invasive (I) means that the species is not only present but has been identified as spreading some distance from its original site of introduction.

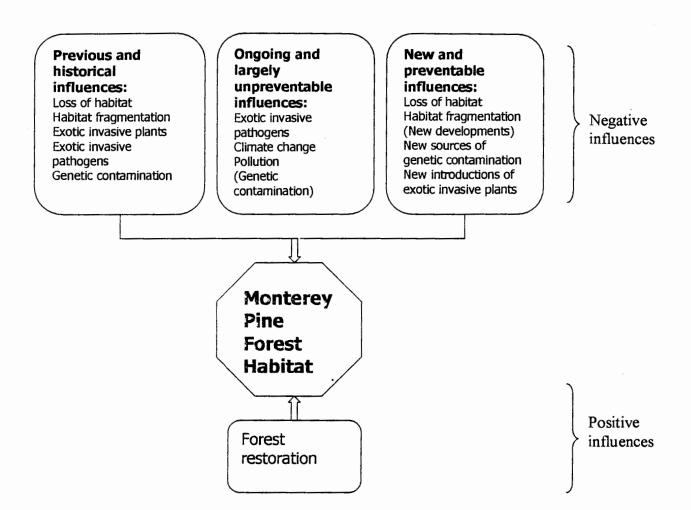


Figure 1. Cumulative influences on Monterey Pine Forest Habitat. Current influences include those that occurred historically (loss of habitat, introduced exotic invasive species, etc.) and more recent influences—many of which are not preventable (climate change, pollution, etc.). In this latter category also is the ongoing impact from introduced pathogens (as existing pathogens cannot be removed entirely, and it is difficult to prevent introduction of new pathogens). The third category 'new and preventable influences' are those that are likely to happen without intervention or care (e.g., introduction of new exotic invasive plant species, genetic contamination from planted seedlings that are not genetically appropriate to the site). The state of the forest is a reflection of all these influences. Any ecologically and genetically appropriate intervention (called 'forest restoration') is a positive influence. This could include removal of exotic invasive species, improvement of conditions for natural regeneration, etc.

II. Comments on Appendix D; Issue SH-29 (page 7 of 13)

SH-29.9: Continue Monterey Pine Forest Research.

Many different entities find value or have interests in the native Monterey pine forests. Thus, I'm not sure it is appropriate to just focus on the 'governmental and non-profit agencies' here to suggest they support research. I understand that universities may fall under a government category, but there are also private universities and other entities (tourist industry, grant-making foundations, individuals, etc.) who have interests and perhaps, responsibilities in this area. I'm not sure I would suggest the type of research that is most important, or give examples (e.g., genetic diversity, pitch canker). The latter has received significant research funding to date; the former is one of a constellation of information gaps. Perhaps this recommendation could be reframed as follows:

There are many information gaps in our understanding of the ecology of Monterey pine forest habitat. Scientific research in this area benefits our ability to effectively conserve this habitat. All those with interests and responsibilities for Monterey pine forest habitat protection should be encouraging and assisting further scientific research—in any way that is within their reach (funding, conducting research, providing access to sites, etc.). The ability to positively influence the amount and quality of research, then, rests not only with universities, but with government agencies, nonprofit organizations, grant-making foundations, businesses, and individuals.

SH-29.10: Consider listing pine as threatened.

Although the intent of this recommendation is understood, I think it may be misdirected. That is, a petition must be presented to either the Department of Fish and Game or the Fish and Wildlife Service for either of those agencies to consider listing Monterey pine as threatened. Undoubtedly, if they were presented with such a petition, they would respond with appropriate process. So if this recommendation is to stand, perhaps it should be reframed to indicate that:

- i) Both the US Fish and Wildlife Service and the Department of Fish and Game could provide additional protection to Monterey pine and associated habitat if it was listed federally and statewide, respectively, as threatened; and
- ii) For those agencies to enact their protections, a credible listing petition must be presented. Those individuals and organizations with the expertise to prepare such a petition should consider whether such action is warranted at this time, and continue to review the status of the species and their decision over time.

SH-29.11: Coordinate management of protected pine forest.

Although this sounds like a good idea in principle, in its imagined implementation, it concerns me. The 'management structure' suggested is vulnerable to political influences. Further, coordination of management could lead to 'one size fits all' approaches that could be insensitive to the different qualities and needs of various forest areas, and the different 'types of forest and pine tree occurrences (e.g., urban street trees, parks with planted pines, small fragmented areas of native habitat, larger forest areas surrounded by development, large relatively natural forest areas). One of the problems in 'forest management', as discussed earlier, is the tendency to use traditional 'forestry' skills rather than recognizing the objective of 'forest ecosystem conservation' and the suite of expertise that that requires. How does one ensure that the

'management structure' is apolitical, focused on the appropriate management objectives, sensitive to the differences among the forest areas, and cognizant of the scientific expertise required for management? Finally, it is a standard principle in genetic conservation that one needs to minimize risk by not having 'all one's eggs in one basket'. That is, different reserves, under different ownership and management regimes—while not ideal—will presumably mean that all reserves won't fail from a flawed management approach.

If California Coastal Commission staff are aware of a good example of this kind of approach, perhaps it could be given as an example. I'm not aware of any. Minimally, I think this recommendation should be softened to suggest that different agencies and groups with land management responsibilities meet regularly to discuss the science and technologies of managing the pine habitat—as a support for keeping up to date on new information and interpreting that information for management. As discussed earlier, this is a challenging role. Note that the Monterey Pine Forest Ecology Cooperative does not specifically address management applications (intentionally) as this quickly becomes political, and is tied to management objectives. Rather, the Cooperative provides opportunities to for those interested to learn about the science underlying the species and processes of the Monterey pine forest (and associated) habitats.

***** END OF COMMENTS****









American Cetacean Society Monterey Bay Chapter



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February 23, 2004

Chair Mike Reilly and Members of the California Coastal Commission 45 Fremont Street, Suite 2000 San Francisco, CA 94105

CALIFORNIA COASTAL COMMISSION CENTRAL COAST AREA

RE: Comments Regarding the Periodic Review of the Monterey County Local Coastal Program

Dear Chair Reilly and Members of the Commission:

Please accept the following comments regarding the Periodic Review of the Monterey County Local Coastal Program on behalf of The Ocean Conservancy, Save Our Shores, Friends of the Sea Otter, the Monterey Bay Chapter of the American Cetacean Society and the Ventana Chapter of the Sierra Club. We appreciate the opportunity to comment on this process.

The impacts of land use decisions on coastal resources and the marine environment are well documented. Growing populations put pressure on the coast in many ways: through increased waste loads from agricultural and urban runoff as well as municipal wastewater discharges, and through water supply and flood control projects. New development also causes habitat loss and changes natural hydrology. Although increased coastal development inevitably has adverse impacts on the coastal and marine environment, impacts can be greatly reduced if land conversion and new impervious surfaces are minimized and sensitive habitats are protected and restored. According to a recent report on coastal sprawl prepared for the Pew Oceans

¹ See for example: Coastal Sprawl: The Effects of Urban Design on Aquatic Ecosystems in the United States, Prepared for the Pew Oceans Commission by Dana Beach, Executive Director, South Carolina Coastal Conservation League, 2002.

Comments on Monterey County LCP February 23, 2004 Page 2

Commission, chaired by Monterey County's own former Congressman Leon Panetta, the central principle of a marine-protection strategy is to maintain relatively undeveloped watersheds and direct coastal growth to those areas that are already significantly developed. The Pew Commission report also notes that if land use reform does not occur in the next few decades, the result will be severe and irreversible declines in coastal and marine ecosystem function.

Fortunately, the Periodic Review of the Monterey County Local Coastal Program provides an opportunity to enhance coastal protection and protect coastal watersheds, water quality, and environmentally sensitive habitat areas. In general, our organizations support your staff's recommendations regarding improvements and updates to the Monterey County LCP. We also encourage that the Monterey County LCP policies be closely coordinated with relevant recommendations contained in the recently created Action Plans for the Monterey Bay Sanctuary's Joint Management Plan Review Process. Our organizations appreciate all of the Coastal Commission staff time and effort that has gone into your detailed review of Monterey County's Local Coastal Program. We offer specific comments on the following issue areas:

- Land Use and Public Works
- Environmentally Sensitive Habitat Areas
- · Water Quality and Marine Resources
- Coastal Hazards

Land Use and Public Works

Desalination: Our organizations strongly support the addition of coast wide policy standards to guide review of any proposed desalination facility as recommended in your staff report. In addition, we urge that the LCP require County participation in the Monterey Bay National Marine Sanctuary's regional planning approach to consideration of desalination throughout the central coast region. Our organizations are extremely concerned about the potential site specific and cumulative impacts associated with desalination facilities and urge that the LCP contain policies adequate to ensure that the marine and coastal environment is fully protected from any adverse impacts associated with desalination. Such impacts include both direct impacts to the marine environment such as those associated with impingement, entrainment, discharge and intake construction, as well as indirect impacts to coastal and marine resources that are associated with the growth inducing aspect of an increased water supply. Finally, we urge that additional LCP policies be adopted that ensure that any effort to provide for future water supply in Monterey County, including desalination, be considered and permitted only in the context of a comprehensive water management plan that includes efforts to continually improve water conservation and reclamation technologies and uses.

Big Sur Coast Highway Management Plan: Our organizations support your staff recommendations regarding the Big Sur Highway Management Plan. We are particularly concerned with potential impacts of highway maintenance activities on stream crossings where careful planning and construction are required to ensure that riparian values are not adversely affected. We are also concerned about landslide management, particularly the practice of sidecasting landslide debris, which can have

Comments on Monterey County LCP February 23, 2004 Page 3

adverse impacts on riparian habitat, beaches, bird and marine mammal habitat, and intertidal communities. We support your staff's recommended LCP language regarding landslide management and urge that the California Coastal Commission and Monterey County work closely with Cal Trans and the Monterey Bay National Marine Sanctuary to avoid and reduce impacts of Highway 1 maintenance activities on coastal resources and the marine environment.

Environmentally Sensitive Habitat Areas

Our organizations support your staff's recommendations regarding improving protection of snowy plover habitat and sand dune habitat. We particularly support policies that prevent development on dune habitat and adoption of a comprehensive sand dune management plan that would contain strategies to restore and protection this important and endangered habitat.

Water Quality and Marine Resources

Our organizations support increased efforts to ensure that activities on land are planned and mitigated so that they do not adversely affect water quality. Such efforts include stepped up enforcement of the Monterey County erosion control ordinance, expansion of efforts to control non-point source runoff from both agricultural and residential lands, and programs to restore and protect degraded watersheds. We support the recommendations regarding water quality and marine resources contained in your staff report and are particularly appreciative of the recommendations regarding improved control of golf course runoff. We urge that the Monterey County LCP clearly prohibit golf course runoff from containing pollutant levels that could be damaging to aquatic or marine organisms or other beneficial uses and require that all golf courses implement water quality monitoring programs capable of documenting compliance with water quality objectives.

Coastal Hazards

Riparian Issues: Our organizations support adoption of management plans for the Salinas River, Tembladero Slough, Pajaro River, and Carmel River. These rivers all present challenging flood control and habitat protection issues. We urge that the Monterey County LCP prioritize riparian habitat restoration and protection designed to protect species and reduce water quality impacts. The County should be required to pursue alternatives to lagoon breaching and structural flood control efforts and instead encourage addressing flooding problems by acquiring flood easements on agricultural fields, relocating structures in flood prone areas, and prohibiting new development or reconstruction in flood prone areas.

Shoreline Protection Devices: It is well documented that seawalls, revetments, and other rigid erosion control structures destroy beach and dune ecosystems, increase erosion on adjacent properties, and hinder public access to and along the shore. Our organizations urge the Coastal Commission to recommend that the Monterey County LCP be revised to disallow shoreline protection structures and urge the county to develop a policy on planned retreat. We also urge Monterey County to be an active participant in the Monterey Bay National Marine Sanctuary's region-wide Coastal Armoring Action Plan.

Comments on Monterey County LCP February 23, 2004 Page 4

Conclusion

Again, our organizations appreciate the effort your staff has invested in reviewing the Monterey County LCP. We encourage you to support your staff's recommendations and help ensure that revised Monterey County LCP will protect the coast and the irreplaceable natural resources of the Monterey Bay National Marine Sanctuary for years to come.

Sincerely,

Kaitilin Gaffney

D'Anne Albers

The Ocean Conservancy

Friends of the Sea Otter and Ventana Chapter, Sierra Club

Jane DeLay Save Our Shores

Carol Maehr American Cetacean Society Monterey Bay Chapter



February 12, 2004

Rick Hyman California Coastal Commission 725 Front Street, Suite 300 Santa Cruz, CA 95060

SUBJECT: Draft Periodic Review, Monterey County Local Coastal Program

Dear Mr. Hyman:

The Monterey Pine Forest Watch (MPFW) is a 501(c)(3) non-profit organization that has worked since 1992 to educate policymakers and the public about the unique Monterey Pine Forest habitat on California's Central Coast. MPFW seeks to promote conservation of this threatened ecosystem throughout the Monterey Peninsula and in the other four native Monterey pine populations in California and Baja, Mexico. For this work we were the recipients of the Natural Areas Association (NAA) Stewardship Award for 2001.

The Monterey Pine Forest Watch has previously submitted extensive comments on the Draft 21st Century Monterey County General Plan Update (GPU) and on the Monterey County GPU Draft EIR. Our comments and recommendations on both the GPU and the GPU DEIR were specifically focused on instituting meaningful protections for the native Monterey Pine Forest as an Environmentally Sensitive Habitat and a major Viewshed Resource. Among the recommendations forwarded by MPFW, we have consistently advocated that the Monterey Pine Forest be considered as a "Natural Community" and a rare "Forest Habitat", rather than be regarded as a collection of increasingly threatened native Monterey pine trees. As the Draft LCP Review correctly notes, it is the pine-dominated forest habitat that deserves increased protection in Monterey County, both within and outside of the legislated Coastal Zone.

Thank you for the opportunity to provide comments on the Draft Periodic Review of the Monterey County Local Coastal Plan prepared by the California Coastal Commission. We have the following general and specific comments on the Draft LCP Update, Chapter 3, Environmentally Sensitive Habitat Areas, and the associated Draft Findings (pp. 145-228):

GENERAL COMMENTS on CHAPTER 3, ESHA's, and related FINDINGS:

1. The MPFW applauds the Draft LCP incorporation of recent scientific research regarding the international significance of our native Monterey Pine Forest natural communities. The Draft LCP correctly notes that much has been learned about the ecological values provided by native stands of Pinus radiata and that large tracts of this forest type are required to adequately safeguard this natural community during future climatic changes, development pressures, and infestations of pathogens. Sound science has guided the preparation of the Draft LCP recommendations. As our scientific understanding of the unique Monterey pine microhabitats and related geomorphic surfaces has and continues to increase, the development of

President: Linda L. Smith, Secretary: Joyce S. Stevens, Treasurer: David T. Bates
Directors: Rita Dalessio, Karen Ferlito, Mary Ann Matthews, Nikki Nedeff, Jud Vandevere
Winner of the Natural Areas Association (NAA) 2001 Stewardship Award

commensurate conservation strategies has and must continue to become more sophisticated. We have much to learn about the complex dynamics of this rare ecosystem.

- 2. The Draft LCP correctly notes that the cumulative impacts of pine pitch canker, subdivision, and incremental fragmentation have damaged the integrity of Monterey Pine Forest habitat and decreased the viability of meaningful, long-term management strategies that work to promote the maintenance of natural ecological processes. Firm new LCP policies must be implemented to arrest the ongoing process of attrition of Monterey Pine Forest habitat and to protect what remains from further destructive impacts.
- 3. We applaud the fundamental pine forest conservation goal that is articulated in the Draft LCP: the objective of the updated LCP policies is to conserve <u>forest habitat</u> and large tracts of the Monterey pine <u>forest</u> ecosystem. Monterey pine is correctly described in the Draft LCP as an indicator species of environmentally sensitive habitat that encompasses a forest ecosystem.
- 4. The MPFW is pleased that the suggested LCP update includes all Monterey Pine Forest habitat on the Monterey Peninsula as ESHA, which is consistent with the ESHA designation in the Año Nuevo and Cambria stands of this unique forest type. As suggested, the definition of ESHA must be updated and standardized in order to provide consistent protection for this rare forest resource.
- 5. The MPFW applauds the increased attention to Maritime Chaparral habitat included in the Draft LCP. Maritime Chaparral is often associated with Monterey Pine Forest. We suggest that ESHA guidelines for Maritime Chaparral communities include specific mention of the unique habitat areas that occur within Del Monte Forest, on the Aguajito property flanking Jacks Peak Park, and on the ridges between San Jose and Malpaso Creeks south of the Carmel River. These areas support very high quality Maritime Chaparral stands and concentrations of listed plant species that should be protected through LCP policy. Consideration should be given to including the remaining vacant privately owned parcels that support high quality Maritime Chaparral in a Transfer Development Credit program that spans the greater Monterey Peninsula area, as proposed for North County chaparral parcels.

SPECIFIC COMMENTS on CHAPTER 3, ESHA's, and related FINDINGS:

- Suggested corrections to text:
 - a. Pg. 178, paragraph 3, last sentence...."over the last 100 years." This process of destruction and fragmentation has been going on particularly since the turn of the 20th Century.
 - b. Pg. 184, paragraph 1, 2nd sentence..."A large section above Spanish Bay is covered by **middle-aged** dunes"...if you are referring to Areas 8c and b.
 - c. Pg. 190, footnote 65, "B & C (57 ac): mostly middle-aged dunes;"
- 2. Appendix D Issue SH-29.9... We would recommend the addition of wording that supports research into the complex ecology of the Monterey Pine Forest.
- 3. Appendix D Issue SH-29.11...We would recommend caution in implementing any coordinated management structure to oversee all Monterey Pine Forests, especially in light of our lack of clear understanding of the ecological processes at work within the forest and its associated habitats. Before putting such a structure in place we ought to have considerably more

knowledge than we presently possess. Since the dynamics of this rare ecosystem are not well understood, our track record in managing the pine forest has not reflected sound ecological practices, and without this knowledge we could end up harming the forest despite our good intentions. Certainly the input of knowledgeable local persons should be an essential ingredient in whatever process of establishing management regimes or structures is envisioned.

- 4. As shown by your detailed case studies, current county and city preservation efforts have been ineffective, resulting in the steady degradation of Monterey Pine Forest habitat. When new definitions and policies for the protection of Monterey Pine Forest ESHA are put in place, we recommend implementation of a serious inspection process to insure follow-up and long term compliance with mitigations for any development permits, and we favor stiff fines for non-compliance. It may be a good idea to create a public watchdog commission to insure agency and public compliance with preservation and other requirements.
- 5. We recommend a greater emphasis on the importance of the viewshed values of the forest. Despite policies protecting the public viewshed and its mention in development permits, the public viewshed from Pt. Lobos and Carmel have undergone a **dramatic** degradation since LCP certification.

Thank you again for preparing this excellent Draft Update to the Monterey County LCP. We look forward to the implementation of consistent policies that safeguard Monterey Pine Forest communities throughout the Central Coast of California.

Sincerely,

Linda L. Smith

Linda L. Smith

President

Cc: Dave Potter, Monterey County Supervisor, 5th District

J. WILLIAM YEATES

8002 CALIFORNIA AVENUE FAIR OAKS, CALIFORNIA 95628 TELEPHONE: (916) 860-2000 FACSIMILE: (916) 860-2014 info@enviroquality!aw.com

J. WILLIAM YEATES

MARY U. AKENS KEITH G. WAGNER

February 12, 2004

Via Federal Express

Mr. Rick Hyman Central Coast District Office California Coastal Commission 725 Front Street, Suite 300 Santa Cruz, CA 95060



Re:

Friends, Artists, and Neighbors of Elkhorn Slough

Comments on Draft Findings of the Monterey County Local Coastal Program - Periodic

Review

Dear Mr. Hyman:

On behalf of Friends, Artists, and Neighbors of Elkhorn Slough ("FANS"), we submit the following comments.

FANS generally supports the California Coastal Commission's draft findings and recommendations and appreciates the information given to the public regarding the North Monterey County Local Coastal Program and land use policies. FANS has these additional comments and suggested recommendations for the Coastal Commission's consideration.

I. CHAPTER 2: LAND USE AND PUBLIC WORKS INFRASTRUCTURE

The County of Monterey has previously processed coastal development permit applications for development projects within the Coastal Zone of North Monterey County, under amended provisions of the LCP that had not been certified by the Coastal Commission. For example, a 1996 uncertified amendment, allowed the County to deem development applications complete without requiring proof of assured long-term water supply.

Recently, a Draft Environmental Impact Report ("DEIR") was circulated on the proposed Sunridge Views subdivision project. The Sunridge project is unable to assure a long-term water supply because of the North Monterey County's severe overdraft crisis. It is, therefore, axiomatic that if the proposed Sunridge project is unable to assure a long-term water supply, then the proof of an assured water supply requirement was not satisfied.

¹ Attached hereto as Exhibit A is an October 26, 2000, Memorandum from Walter Wong, Director of Monterey County Department of Health to Monterey County Planning Commission.

Mr. Rick Hyman Central Coast Division CALIFORNIA COASTAL COMMISSION February 12, 2004 Page 2 of 6

For this reason, FANS believes that all subdivision applications being processed under the 1996 proof of water amendment may not be complete and are, therefore, out of compliance with the LCP.²

Recently, the Coastal Commission, on its own, appealed the decision of the County of Monterey granting the Tanglewood (Gorman) subdivision permit within North Monterey County. (Appeal No. A-3-02-77). FANS supports the Coastal Commission's appeal of this proposed project for further review and consideration, and urge the Commission to carefully evaluate whether the project has an assured long-term supply that does not negatively effect local groundwater supply.

A. GROUNDWATER OVERDRAFT PROTECTION

COMMENT 1: Development Within Coastal Zone of North Monterey County

FANS believes that no further new residential subdivision development should occur in North Monterey County. Additionally no new cultivation of agricultural lands should occur consistent with the Elkhorn Slough at the Crossroads Report, which states:

(K) Strengthen County policies that: (a) discourage conversion of any naturally vegetated area within Elkhorn Highlands into new cultivated agriculture, (b) encourage landowners to retire agriculture on slopes exceeding 20%, to stabilize fallow fields from erosion and over time to restore habitats, (c) encourage landowners to control invasive non-native species throughout their property, and (d) discourage development within 100 meters of maritime chaparral to avoid conflicts between management and habitat protection.³

COMMENT 2: Taking Agricultural Lands Out of Production to Offset New Residential Groundwater Demand.

The Coastal Commission's Draft Staff Report correctly recognizes the County's policy of removing agricultural lands from production to offset new residential water demand. For instance, the proposed Sunridge subdivision project claims to offset its water usage by removing productive agricultural land. Future potential alternatives to the severe groundwater overdraft issues include a pipeline connection to the Central Valley Project. Any connection to the CVP, however, would not necessarily benefit residential development within North Monterey County. Additionally, the County Health Department has also recognized that even when development demonstrates water savings over previous use, citizens may still be put at risk.⁴

FANS recommends that the Coastal Commission update the LCP to protect citizens from risk even if development (whether residential or commercial) demonstrates water savings over previous use – such as agricultural use. During times of severe drought, or until the ground

⁴ Exhibit A.

² The Coastal Act, Pub. Resources Code, § 30514, subd. (a).

³ Elkhorn Slough at the Crossroads, p. 10.

Mr. Rick Hyman Central Coast Division CALIFORNIA COASTAL COMMISSION February 12, 2004 Page 3 of 6

water overdraft issues are resolved, agricultural land can be fallowed to protect the water supply. Residential uses commit the limited groundwater supplies to a permanent and less flexible regime of water use.

COMMENT 3: Secondary Units

Appendix A of the Draft Findings focuses on Caretaker Units. Senior Citizen Units also increase or intensify water use. ⁵ Therefore, any final recommendation regarding secondary units should also include Senior Citizen Units.

B. PROTECTIONS TO ELKHORN SLOUGH

Although FANS supports most of the Coastal Commissions recommendations, FANS opposes any recommendations that may negatively effect Elkhorn Slough, such as filling wetlands. Recommendations for filling wetlands are also inconsistent with the Coastal Act policies requiring the protection of environmentally sensitive habitat areas.

COMMENT 4: No Wetland Infill in Elkhorn Slough

Recommendations for traffic circulation improvements to Highway One may have significant negative environmental impacts on Elkhorn Slough. The Coastal Commission should therefore, reconsider its proposed recommendations to fill wetlands within the protected Elkhorn Slough.

II. CHAPTER 3: ENVIRONMENTALLY SENSITIVE HABITAT AREAS

Subdivision development continues to be proposed adjacent to stands of maritime chaparral. It is unclear whether the County is correctly implementing setback requirements.

COMMENT 5: Setback requirements.

FANS agrees that the North Monterey County's Land Use Plan must be updated so that clear setback requirements are implemented. However, FANS believes that the recommended setback should be consistent with the Elkhorn Slough Crossroads Report "discourag[ing] development within 100 meters of maritime chaparral. . . ." North Monterey County's Coastal Implementation Plan must also be updated to indicate a clear setback requirement to protect maritime chaparral to the fullest extent possible also consistent with the Elkhorn Slough Crossroads Report.

⁵ Attached hereto as Exhibit B is a document titled "Water Use Intensification in North Monterey County Senior Citizen Units Caretaker Units Guest Houses."

⁶ Elkhorn Slough at the Crossroads, p. 10. Emphasis added.

Mr. Rick Hyman **Central Coast Division** CALIFORNIA COASTAL COMMISSION February 12, 2004 Page 4 of 6

COMMENT 6:

Set Back Requirement Should Be In Addition to Fire-Hazard

Clearing Requirements.

Any recommended setback for maritime chaparral should be in addition to the required statemandated vegetation removal firebreak (i.e., 30-foot), which must occur outside the existing line of maritime chaparral. In other words the state-mandated firebreak setback should not be written in a way to allow property owners to remove 30 feet of chaparral to meet state fire code requirements.

COMMENT 7: Prohibition of vegetation removal within ESHA.

Recommendation 28.4.B.2.a.(2) states that no new development shall be allowed in ESHA. including, but not limited to major vegetation removal, landscaping and grading, unless necessary for fire safety. The recommendation also references CH-9.3, however, CH-9.3 relates to Big Sur. Therefore, this recommendation regarding the potential of removal of vegetation within ESHAs is ambiguous and may be inconsistent with recommended LCP amendments regarding maritime chaparral setbacks. See also Comments 5 and 6.

III. CHAPTER 4: WATER QUALITY AND MARINE RESOURCES

A. **EROSION CONTROL**

FANS supports the Coastal Commissions recommendations regarding erosion control.

COMMENT 8: Protection of Elkhorn Slough from Sedimentation

Recommendations for LCP updates should incorporate and be consistent with the Elkhorn Slough at the Crossroads report.

The Crossroads report states as follows:

The hills surrounding the estuary are highly susceptible to erosion. The natural Resource Conservation Service (NRCS) has documented on hillside strawberry fields an average erosion rate of over 33 tons per acre per year, one of the highest rates of erosion west of the Mississippi River. Without proper management, the sediments and agricultural chemicals carried by this erosion eventually make their way into the estuary. Proper management of upland areas throughout the Watershed is extremely important, both to the health of the estuary, as well as to the long-term sustainability of the Watershed's rich agricultural resources.

⁷ Elkhorn Slough at the Crossroads, p. 2.

Mr. Rick Hyman Central Coast Division CALIFORNIA COASTAL COMMISSION February 12, 2004 Page 5 of 6

B. NITRATE LOADING

Although the draft findings and preliminary recommendations include some information regarding the water quality issues of nitrate infiltration due to agricultural practices and septic systems, there are additional issues that need to be reviewed and analyzed to ensure protection of North Monterey County's groundwater.

Existing wells in the North Monterey County are being contaminated by nitrates. As a result, contaminated wells are being abandoned and new wells are being installed deeper into the aquifer. Installation of a new well may not need a discretionary permit. It is unclear whether the deeper wells are capped at a level that would ensure protection from the contamination of the deep aquifer or how long the new wells will be operable due to continued nitrate leaching.

COMMENT 9: Contamination of Deep Aquifer

The Coastal Commission should review, analyze and make recommendations regarding the installation of deep wells and the potential to contaminate the deep aquifer.

COMMENT 10: Well Longevity

The Coastal Commission should review, analyze and make recommendations regarding the issues raised by the potential longevity of new wells prior to nitrate contamination due to continued nitrate loading and the potential impacts to the deep aquifer.

C. Non-Point Source Pollution

FANS supports the Coastal Commission's opinion that the preservation of maritime chaparral habitat and prevention of groundwater depletion will help control non-point source pollution impacting Elkhorn Slough.

COMMENT 11: Consistency is Necessary to Protect the Elkhorn Slough

Although the Coastal Commission opines that recommendations suggested for prevention of groundwater depletion and preservation of maritime chaparral will help protect the Elkhorn Slough from non-point source pollution, it appears these recommendations have not been incorporated into the proposed LCP recommendations. FANS believes that recommended updates to the LCP regarding protections to groundwater, maritime chaparral, and water quality work harmoniously to provide the fullest protections possible to Elkhorn Slough and North Monterey County as a whole. Protection of one resource must not negatively impact another resource. In other words, any LCP amendment that may prevent groundwater depletion, must also protect maritime chaparral and vice versa.

Mr. Rick Hyman Central Coast Division CALIFORNIA COASTAL COMMISSION February 12, 2004 Page 6 of 6

COMMENT 12:

Filling of Wetlands Within Elkhorn Slough May be Inconsistent With Protections Against Non-Point Source Pollution.

FANS opposes the filling of any wetlands or riparian area adjacent to or connecting to Elkhorn Slough or any of its tributaries. Any recommendations allowing the filling of wetlands within or adjacent to Elkhorn Slough for road improvements are inconsistent with the Coastal Act policies requiring the protection of environmentally sensitive habitat areas.

Thank you for the opportunity to comment on the draft findings and recommendations. If you have any questions regarding the foregoing, please contact me.

Sincerely,

Mary U. Akens

Attached Exhibits

DRAFT

COUNTY OF MONTEREY HEALTH DEPARTMENT

MEMORANDUM

ENVIRONMENTAL HEALTH DIVISION

October 26, 2000

TO:

Monterey County Planning Commission

FROM:

Walter Wong, MPH, REHS Director of Environmental Health

SUBJECT:

Position regarding North County Water

Title 19, the Subdivision Ordinance, currently designates the Health Department as lead agency with regard to proof of water and requires proof of water prior to an application being deemed complete. This code requires that the applicant provide hydrogeologic evidence of proof of an assured; long-term water supply in terms of sustained yield for all lots. The North County Land Use Plan policies dictate that new development be phased so that existing water supplies are not committed beyond their safe long-term yields. Further the plan states that development levels that generate water demand exceeding safe yield of local aquifers shall only be allowed once additional water supplies are secured.

Accordingly, it is the position of the Environmental Health Division that it is *not* possible to support a finding of a long-term water supply for development in an area of significant, chronic overdraft. Further, it is not prudent to place additional citizens at risk by allowing residential development in an overdraft area even when the development demonstrates water savings over previous use.

Prior to recent changes (5/16/00) to Title 19, Subdivision Ordinance, proof of water for development was determined after a project was deemed complete but prior to circulation of an environmental document and a public hearing. Findings of a long-term sustainable water supply were proven to the satisfaction of the Planning Commission or the Director of Planning and Building Inspection. The Water Resources Agency was the lead agency in evaluating water demand and in determining the adequacy of existing regional hydrolgeological information to demonstrate a long-term source of water for the development. The Health Officer was responsible for evaluating the development's water well with respect to getting the water out of the ground of adequate quality and quantities.

The 1996 Fugro Study concluded that four of the five North County Subbasins were in significant overdraft. Monterey County Water Resources Agency recommended approval of projects based on a mitigation of \$1000 dollar per lot to fund a Comprehensive Water Management Plan.

Subdivision applications deemed complete prior to the effective date of Title 19 changes (6/16/00) were reviewed and processed in accordance with the old process. As such, a recommendation of approval by staff was accomplished under the provisions of the old ordinance. Because these projects were deemed complete under the old ordinance the Environmental Health Division cannot *require* additional information of the applicant at this point in time, however the hearing body may not be precluded from requiring any additional reports it deems necessary to make a finding regarding a long-term, sustainable water supply.

Cc:

Jim Colangelo Jerold Malkin

WATER USE INTENSIFICATION

IN NORTH MONTEREY COUNTY

SENIOR CITIZEN UNITS CARETAKER UNITS GUEST HOUSES



- A Senior Citizen Unit is occupied by no more than two persons, one of whom must be sixty years of age or disabled. The Unit cannot exceed 700 square feet if attached, or 850 square feet if detached. The Unit is considered a new and separate connection to the water system that provides water. A deed restriction must be recorded, as a condition of project approval, stating the regulations applicable to the Senior Citizen Unit. Other regulations apply. (MCC 21.64.010 or 20.64.010)
- A Caretaker Unit is occupied by an employee whose job is to provide care and protection of persons, plants, animals, equipment or other facilities, on-site or on contiguous lots under the same ownership. The Unit cannot exceed 1000 square feet on lots of ten acres or less, or 1200 square feet on lots greater than ten acres. In the Coastal Zone, a caretaker unit is limited to 850 square feet. The Unit is considered a new and separate connection to the water system that provides water. A deed restriction must be recorded, as a condition of project approval, stating that the Caretaker Unit cannot be rented to other than a caretaker. Other regulations apply. (MCC 21.64.030 or 20.64.030)
- A Guesthouse shares the same utilities with the main residence and has no kitchen or cooking facilities. The Unit cannot exceed 600 square feet (425 square feet in the Coastal Zone). A Guesthouse cannot be rented or leased separately from the main residence. A deed restriction, stating these regulations, must be recorded as a condition of project approval. Other regulations apply. (MCC 21.64.020 or 20.64.020)
- A Senior Citizen Unit or a Caretaker Unit will increase, or *intensify*, water usage. These projects are subject to the proof of water requirement of the Division of Environmental Health. A Guesthouse is simply considered a detached bedroom and, like other remodels and additions, does not require this proof of water documentation. Proof of water is based on documentation of a "long-term, sustainable water supply" for the project.
- A hydrogeologic report can demonstrate proof of a "long-term, sustainable water supply."
- To assure fairness, the hydrogeologic report must be independent. The Division of Environmental Health will contract with a qualified professional to prepare a hydrogeologic report. Division staff will review and evaluate the conclusions of the report. The cost of the report is substantial, and must be paid by the project applicant.
- Current data show that it is *highly unlikely* a hydrogeologic report would demonstrate proof of a "long-term, sustainable water supply" for *any* project in North Monterey County. All areas in North Monterey County are in severe overdraft—more water is already being pumped from the ground than

is being replaced. Drawing water from a well in these areas contributes to the cumulative effects of overdraft region wide. In the Granite Ridge area, water quantity has been reduced and some wells have gone dry. In other areas, continuing overdraft pulls seawater into aquifers, destroying them forever as a source of quality water.

- If an applicant for a Senior Citizen or Caretaker Unit in North Monterey County believes an independent, project specific hydrogeologic report will demonstrate proof of a "long-term, sustainable water supply," the applicant may authorize the Division of Environmental Health to have a report prepared. The application will be held as "incomplete" until the report is completed and reviewed by the Division.
- If the report *cannot* prove the project would have a "long term, sustainable water supply," the County will consider the application "complete," but the Director of Environmental Health will recommend that the project be denied.
- The basis in law for an independent hydrogeologic report is the Monterey County Subdivision Ordinance, *MCC Chapter 19*. For more information, please contact the Resource Protection Branch of the Division of Environmental Health.

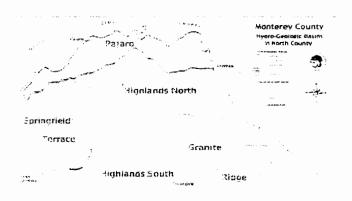
FREQUENTLY ASKED QUESTIONS

If it can be shown that the water system serving the proposed Senior Citizen or Caretaker Unit has both sufficient *quantity* and *quality* of water to support the proposed use, doesn't that mean there is a "long-term, sustainable water supply?"

Not necessarily. A "long-term, sustainable water supply" is the existence of both sufficient quantity and quality of water to support the proposed use. However, sufficient quantity is determined after establishing the safe yield—the amount of water that can be extracted continuously from the basin or hydrologic sub-area without degrading water quality, or damaging the economical extraction of water, or producing unmitigatable adverse environmental impacts (MCC 19.02.143). A hydrogeologic report looks at these issues as well.

If a Guest House already exists, can it just be converted to a Senior Citizen or Caretaker Unit?

Not without meeting the proof of water requirements and providing for the deed restrictions as discussed on page 1 of this information sheet. Also, a discretionary permit from Monterey County Planning and Building Inspection Department is required prior to conversion.



MONTEREY COUNTY HEALTH DEPARTMENT DIVISION OF ENVIRONMENTAL HEALTH

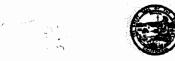
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> > PHONE (831) 755-4507 FAX (831) 755-8929

> > > JUNE 19, 2003

CALIFORNIA COASTAL COMMISSION

CENTRAL COAST DISTRICT OFFICE 725 FRONT STREET, SUITE 300 SANTA CRUZ, CA 95060 (831) 427-4863



November 26, 2003

TO:

COMMISSIONERS AND INTERESTED PERSONS

FROM:

Charles Lester, Deputy Director

Rick Hyman, Deputy Chief Planner, Central Coast District Elizabeth Fuchs, AICP, Manager, Statewide Planning

Kelly Cuffe, Coastal Analyst Michael Nowak, Coastal Analyst

SUBJECT:

STAFF REPORT ON THE PERIODIC REVIEW OF THE

MONTEREY COUNTY LOCAL COASTAL PROGRAM

Staff Note

This is the preliminary staff report of the Periodic Review of the Monterey County Local Coastal Program (LCP). This document summarizes the staff analysis of Monterey County's implementation of its LCP, and includes preliminary recommendations for corrective actions to be taken by the County in twenty-eight specific issue areas. The full background report with supporting documentation, consisting of ten chapters and five appendices, is available for review on the Coastal Commission's web site: http://www.coastal.ca.gov. Appendices A, B, C, and D contain additional preliminary recommendations that are summarized in this report. (Appendix A was previously transmitted to the County in January 2003.)

The Commission identified Monterey County as the next priority for the Periodic Review Program in May of 2001, partly in recognition of a specific request from Monterey County. The County has been in the process of completing a comprehensive update of its General Plan and LCP, and in choosing to undertake this review, both the County and the Commission recognized that this presented a unique opportunity for allocation of additional resources from the Periodic Review program to this local planning effort. To this end, Commission staff has met with the Land Use Advisory Committees throughout the County on numerous occasions and has also participated in local meetings of the County Planning Commission and Board of Supervisors on pending planning proposals. Staff also allocated substantial time to commenting on draft 21st Century Monterey County General Plan update products and discussing these with Monterey County General Plan update staff. To provide early specific feedback to the County, staff submitted initial Periodic Review recommendations and comments on the draft General Plan in January 2003, which are contained in Appendix A. Many of these recommendations already have been incorporated into the current draft of the General Plan.

Nonetheless, more work remains to be done. This report is being presented at the Coastal Commission's December 2003 meeting for discussion and to initiate a public comment period, including further consultation with County staff. *No formal Commission action is being recommended at this time*. Staff anticipates returning to the Commission at its March 2004 Monterey hearing with a final report and recommendation.



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I. Introduction

A. Background to Periodic Review Process

The cornerstone of the coastal management program established in the California Coastal Act (Act) is the coastal planning partnership with local governments. Under the Act, once a Local Coastal Program (LCP) is certified by the Coastal Commission as capable of regulating development in conformance with policies of the Coastal Act, it is the local government that assumes the primary responsibility for issuing most coastal permits consistent with their certified LCP and the public access policies of the Act. The Commission maintains some permit jurisdiction, monitors local actions and retains authority to appeal certain decisions, with the certified LCP as the main standard of review for such appeals.

Because of the importance of the LCPs in managing coastal resources, Coastal Act Section 30519.5 requires that the Commission periodically review the implementation of certified Local Coastal Programs and determine whether the LCP is being effectively implemented in conformity with the policies of the Coastal Act. If the Commission determines that a certified local coastal program is not being carried out in conformity with any policy of the Act, the Commission submits to the local government recommendations of corrective actions that should be taken. Corrective actions recommended through a review can include suggested amendments to the LCP, such as changes in land use designations, policies, and regulations, as well as intergovernmental coordination measures, or actions by other state and local government agencies to improve implementation of the LCP.

By providing this mechanism for evaluation and feedback, the Coastal Act assures a type of adaptive management process that assures the LCP will be kept up to date and effective as a guiding standard for coastal management and decision-making at the local level. A periodic review offers the opportunity to enhance coastal management by reviewing whether an LCP is achieving the results it was intended to achieve. It allows for the incorporation of new knowledge into the LCP, and the adjustment of existing policies, programs, and implementation practices, informed by the lessons learned about what works in the coastal management process. It also can reflect the outcome of other implementation actions such as acquisition and operation of beach accessways, restoration of wetlands, execution of habitat conservation or resource management plans, and conduct of educational programs, all of which bring to reality the programs and recommendations of the LCP. It is also an opportunity to evaluate the cumulative effects of coastal development and management and revise and update the LCP to address these cumulative impacts. The Coastal Act envisions that this evaluation process would occur at least once every five years. However, in most cases, 15 to 20 years have passed with no evaluation, so the review process is faced with far greater challenges in policy analysis.

When the Coastal Commission reviews the implementation component of an LCP, or an amendment to it, the standard of review is consistency with the certified land use plan. When the Commission reviews a project on appeal, the standard of review is consistency with the certified LCP and Coastal Act access policies. It is very important, therefore, that a certified LCP is periodically reviewed and updated in order for the LCP to continue to function as an effective standard for sound coastal resource management decision-making.

B. Coordination and Ongoing Planning Efforts

Over the last two years, Monterey County, in full consultation with the public, has been working to comprehensively update its General Plan, including the LCP. In recognition of this planning opportunity and in response to a specific request from Monterey County, the Coastal Commission identified the Monterey County Periodic Review as the next priority in its Periodic Review program. The Review has enabled the Commission to more fully participate and provide input to the County's 21st Century Monterey County General Plan/LCP update process by making additional state and federal planning dollars available for LCP planning in Monterey County. Thus, Coastal Commission staff has met on numerous occasions with the Land Use Advisory Committees throughout the County and has also participated in local meetings of the County Planning Commission and Board of Supervisors on pending planning proposals. Coastal Commission staff also allocated substantial time to commenting on draft 21st Century Monterey County General Plan update products and discussing these with County staff. In coordinating with the County's update process, staff submitted initial Periodic Review recommendations and comments on the draft 21st Century Monterey County General Plan update in January 2003, which are contained in Appendix A. Many of these recommendations already have been incorporated into the current draft of the 21st Century Monterey County General Plan update. In addition, when major land use proposals were made in the last several years, particularly Measure A concerning development in the Del Monte Forest, Commission staff submitted extensive comments to the County, some of which are now incorporated into this Review.

The Commission recognizes that the 21st Century Monterey County General Plan update is itself resulting in substantial policy revisions and may have already developed means to address some of the issues raised in this Periodic Review. It is important to note that the Periodic Review recommendations will not be the Coastal Commission's sole comments on the 21st Century Monterey County General Plan update. The 21st Century Monterey County General Plan update consists of revising LCP policies beyond those examined in this Periodic Review. Because the portion of the 21st Century Monterey County General Plan update that constitutes the County's revised Local Coastal Program Land Use Plan will have to be reviewed and approved by the Coastal Commission as an amendment to the currently certified document, Commission staff will continue to work with County staff to provide feedback on the proposed Update.

Continued coordination between the County and the Commission as part of the ongoing update of the LCP will be critical to the successful implementation of the LCP improvements suggested by the Periodic Review. But, as noted in the review, many of the issues raised concerning LCP implementation can be addressed simply through improved post certification monitoring and procedures, including enhanced daily coordination and communication.

C. History of Monterey County's Local Coastal Program

Following the effective date of the Coastal Act on January 1, 1977, Monterey County had a jump start on the LCP planning process, as Big Sur was one of the pilot land use plans that had commenced under Proposition 20, the predecessor of the Coastal Act. The County decided to

segment its LCP to cover four separate areas. As a result, the Monterey County LCP consists of four Land Use Plan documents and the Coastal Implementation Plan, which is made up of 6 parts, including regulations for development in each planning area, zoning ordinances, and maps and appendices.

The four land use plans include: North County Land Use Plan, Del Monte Forest Land Use Plan, Carmel Area Land Use Plan, and Big Sur Coast Land Use Plan. The Big Sur River Protected Waterway Plan and the Little Sur River Protected Waterway Plan are also certified as components of the Big Sur Coast Land Use Plan. Background reports for each of these land use plans were prepared between 1979 and 1982. Certification of the four Land Use Plan segments occurred in June 1982 for the North County, April 1983 for the Carmel Area, September 1984 for the Del Monte Forest Area, and April 1986 for the Big Sur Coast.

Preparation of Monterey County's Coastal Implementation Plan, comprised of six parts, and followed in the mid-1980's. The complete Coastal Implementation Plan was effectively certified on January 12, 1988. The small areas of Malpaso and Yankee Beaches within the Carmel Area were not certified and remain Areas of Deferred Certification (ADCs). On February 4, 1988, Monterey County assumed authority for issuing most coastal permits in the county. It is worth noting that while final LCP certification occurred in early 1988, some parts of the LCP were developed earlier and based on information that was compiled beginning in the late 1970's.

D. Changes Since LCP Certification

In Monterey County, significant environmental, scientific, social, legal, economic, and other important changes have occurred since certification of the County's LCP in 1988. Most fundamental, population growth and development pressures continue to place significant pressure on coastal resources. By 2001 population had increased almost 32% since 1988 and is projected to increase 92% over the 1988 population by 2020. The County also has issued more than 2700 coastal development permits under the LCP. Most of these permits were for some type of residential construction.

The number of appeals to the Coastal Commission of coastal permits approved by the County has generally increased over the last ten years. As of October 2003, there have been 57 appeals from County coastal permit decisions. This number is the second highest number of appeals of all coastal jurisdictions. However, the Commission determined that the appeals raised a Substantial Issue (SI) with regard to conformance with policies of the certified LCP and the access policies of the Coastal Act in only about 23% of those appeals. Of the appeals determined to raise a substantial issue, public access, protection of scenic and visual resources and landform alteration, and protection of environmentally sensitive habitat resources were the issues raised most often. In addition, the LCP has been amended 25 times.

Significant changes have also occurred that speak directly to the need for a periodic review of the Monterey County LCP. These include newly listed endangered species and environmental threats, acquisition and designation of new protected areas, changes in statewide resource policy, and

 $^{^{1}}$ Where "No Substantial Issue" was found, the County coastal permit remains the governing permit.

improved knowledge and public appreciation of coastal resources. For example, at least two new species that rely on coastal waters (red-legged frog and steelhead) have been identified as threatened under the federal *Endangered Species Act* since LCP certification. Protection of the riparian zones and creeks, therefore, is even more vital to adequate protection of coastal habitats. When coupled with the new knowledge about the limited capacities of the creeks, it becomes critical to revisit the applicable coastal policies, and update them to account for this new resource management condition.

Similarly, the emergence and spread of Pitch Canker disease among Monterey pine forest and a better scientific understanding of the pine forest habitat and its status as a special and limited species require new analyses and policies for incorporation into the LCP. These are only two examples where both science and resource conditions have evolved (without predictability) to the point that existing policies no longer anticipate, and are inadequate to address, the new resource circumstances.

In addition, new management policies and programs have been put into place that reinforce the need to review and update the policies of the LCP to reflect these changes circumstances. Among these are: the designation of the California Coastal Trail from Oregon to Mexico as the National Millennium Trail for the State, designation in 1996 of Route One in Big Sur as a National Scenic Byway and All American Road, Designation in 1992 of the Monterey Bay National Marine Sanctuary and in 2000, adoption of a new Plan for California Nonpoint Source Pollution Control Program.

E. Monterey County's Coastal Management Achievements

The Periodic Review shows that the County, local citizen groups, and others have taken significant steps to respond to changing conditions through LCP implementation and other resource management efforts. The County has been instrumental in helping to achieve major accomplishments in coastal management since 1988, including new acquisition of sensitive lands and access, protection of agricultural resources in North County, restriction of new development in the Big Sur Critical Viewshed and many new planning and resource management initiatives.

Effective coastal management relies on more than the coastal development permitting process. Nonetheless, even with significant accomplishments in furthering coastal resource protection and management in Monterey County, the Periodic Review also identifies major areas where the LCP and its implementation can be strengthened to respond to ongoing and new coastal resource management challenges in the County. A brief summary of the key findings and preliminary recommendations follows.

II. Summary of Monterey County Local Coastal Program Periodic Review

Initial LCP review and comments on several issues were transmitted to the County in February 2003 as part of the review of the Draft 21st Century Monterey County General Plan update and are included in Appendix A. In this Periodic Review report, staff evaluated the implementation of the LCP in detail for several other major issues areas. The findings are summarized below in the order of Coastal Act policy groupings, not necessarily in order of importance.

These recommendations, although extensive, do not mean that the entire LCP lacks conformity with the Coastal Act. On the contrary, in many policy areas the LCP remains effective in carrying out the goals and objectives of the Coastal Act. Major concepts in the LCP, such as Big Sur Coast's critical viewshed policy, remain exemplary today. While the recommended actions focus on suggested improvements, in most cases they reflect changed circumstances, new information, or language ambiguities, and build on the existing policies rather than recommend entirely new directions.

While recommendations suggest specific changes to the currently certified versions of the LCP, some flexibility in final wording, format, and location in the LCP is anticipated, since the County is completely revamping its current Local Coastal Program as part of a new 21st Century Monterey County General Plan update and policies now found in separate land use plans may be consolidated or otherwise reformatted.

Regarding the recommendations addressing implementation provisions, the Commission understands that the County will be preparing extensive zoning revisions after completing the 21st Century Monterey County General Plan update. The Commission recognizes that the County may decide to reformat the Coastal Implementation Plan. This task is not likely to occur within the yearlong period that the County is required to consider Periodic Review recommendations. The Commission anticipates working with the County to ensure that Periodic Review recommendations addressing zoning are factored into the work program for Coastal Implementation Plan revisions.

Similarly, regarding the recommended actions directed toward the County, the Commission recognizes the limited resources available for planning and management activities. For example, the local assistance planning grant program to support local government coastal management activities was eliminated from the Commission's budget this year. County staff has indicated that given the commitment to complete the 21st Century Monterey County General Plan update and then the zoning update, the need to perform basic infrastructure planning, and the lack of resources available, it is unlikely the County will be able to perform other planning activities any time soon. Nevertheless, as noted in this Periodic Review analysis, such actions are often central to assuring long-term protection, management and restoration of coastal resources as envisioned by the goals of the Coastal Act.

A. Geographic Overview of Recommendations

Following is synthesis of the significant coastal resource issues examined in this Periodic Review by planning area. The purpose of this section is to present how the individual resources concerns are geographically related and can be factored into an overall plan.

1. North County Planning Area

North County lands can be generally characterized as consisting of fertile coastal terraces, an extensive system of productive wetlands, a few developed communities, and inland rolling hills with diminished native vegetation coverage. The agricultural use of the terraces predominates, with relatively few threats from other land uses. The slough system proper is fairly well protected. However, it suffers from polluted runoff from farmlands and home sites, especially those on sloping lands. Some of the hillsides have been denuded of their native vegetation, including the sensitive Maritime chaparral plant community. The area's most precious and compromised resource is unseen—the overdrafted underground aquifers. Agriculture is responsible for most of the water use. The water supply is also threatened by polluted runoff seeping into the ground.

A comprehensive approach to resource protection and restoration involves the integration of various elements. Maritime chaparral habitat should be preserved and allowed to naturally regenerate. This would directly result in protection of the habitat. Additionally, it would result in less polluted runoff and less groundwater use. Productive agricultural land off of steep slopes should be preserved, but managed to significantly reduce erosion and water consumption. Even with these steps, some type of water supply enhancement is necessary to protect and restore the groundwater basin and avoid resource impacts. Until that occurs, no net increase in water extraction should occur. To prevent continued fragmentation of the chaparral habitat and to avoid conflicts with farming, residential use and its associated development should remain concentrated in the current communities of Castroville, Oak Hills, Las Lomas, and Moss Landing. Redevelopment of Moss Landing should occur in manner that emphasizes coastal-dependent and visitor-serving uses, both because these are Coastal Act priorities and because, if forced out of Moss Landing, they may seek locations on surrounding agricultural land.

2. Del Monte Forest Planning Area

Del Monte Forest lands are home to diminished native Monterey pine habitat. Mixed in with the pine cover are sensitive dune and maritime chaparral habitats. The area is also a prime scenic and recreational attraction. Del Monte Forest does not cover a significant groundwater basin; its water supply comes from the overdrafted Carmel River system.

A comprehensive approach to resource protection and restoration relies on maximizing habitat protection and maintaining the forest cover. Monterey pine forest (and all of its subtypes) should be preserved and allowed to naturally regenerate. This would directly result in protection of the habitat. Additionally, it would maintain the scenic attraction of the area, contribute to water quality protection of Carmel Bay by maintaining pervious surfaces and avoiding increased non-point source pollution, and at least assuring that the water supply deficit does not worsen.

Reducing the point-source discharge of the Carmel Area Wastewater plant also advances water quality protection of the pristine Carmel Bay waters. The more reclaimed water the plant produces that can be used on Pebble Beach golf courses and other lands, the less wastewater that flows into the Bay and the less water that needs to be withdrawn from the Carmel River stream flow.

3. Carmel Planning Area

The Carmel Area around the city of Carmel-by-the-Sea is a special community that is a popular visitor destination point. The lack of vacant lots and available water supply keeps the area from being overwhelmed by greater density. Instead, the challenge comes from redevelopment of existing structures.

A comprehensive approach to resource protection and restoration relies on maintaining the community character as mandated by the Coastal Act. Protecting community character also contributes to habitat protection and restoration (by preserving and planting additional trees), to water quality protection of Carmel Bay (by maintaining pervious surfaces and avoiding increased non-point source pollution), to scenic protection and recreational attractiveness, and to protection of available water supply (by not increasing demand from expanded development).

The Carmel Area uplands, above Point Lobos and Carmel Highlands, is a still largely unspoiled area of scenic beauty, low-intensity recreational potential, and sensitive Maritime chaparral and other plant communities. Even low-density development in this area has the potential to harm these resources. For example, structures can directly intrude into the public viewshed or into an area of maritime chaparral. The development of improved access roads or of vegetation clearing associated with fire prevention can have indirect effects on the habitat and viewshed. Thus, a comprehensive approach to resource protection and restoration relies on minimizing and clustering any new development.

4. Big Sur Coast Planning Area

The Big Sur coast needs little description as its scenic beauty and attendant recreational attractions are known worldwide. Thus, one of its attributes is the lack of visible development. What little development exists is of a scale and location that historically does not detract from the beauty of the area. However, development pressure remains to build on vacant parcels and expand structures on developed parcels. Another attribute is Highway One, which enables visitors to see the spectacular scenery and residents to access their homes. However, the highway requires a high level of maintenance, and is, at times, threatened with overuse, visual clutter, and instability from rock and landslides.

A comprehensive approach to resource protection and restoration involves providing for residential and recreational needs in the least obtrusive, consumptive, and damaging manner. The mandate to protect the Big Sur viewshed is paramount among all County coastal policies. This mandate means foremost that the County should continue to prohibit new development in the viewshed and in the long-term, continue to remove or hide intrusive development. To further these objectives, utility and recreational facilities need consideration as well. The *Coast Highway Management Plan*, the goal of which is to keep the highway open, yet manage it and its surroundings in a way that preserves the

landscape, should be completed and implemented. New development that is allowed either outside the viewshed or as exemptions in the viewshed needs to be designed, scaled and located so that it does not adversely impact views as seen from public trails, does not change the overall Big Sur community character, does not impact riparian systems, does not intrude on sensitive habitats, and does not require obtrusive or habitat damaging fire protection measures.

B. Issue Overview of Preliminary Recommendations

This Periodic Review is organized by Coastal Act topic. Each of the following chapters covers a group of Coastal Act policies and corresponds to the chapters in the background report to this staff report.

Chapter 2 - Land Use And Public Works Infrastructure

Coastal Act policies require that new development be concentrated in and adjacent to existing developed areas that have sufficient public services to support such development. Where such areas are not available, development must be located where adequate public services exist and where development will not have significant adverse effects, individually or cumulatively, on coastal resources. The Periodic Review evaluated three main issues related to this policy: (1) preventing cumulative impacts to agricultural resources; (2) assuring adequacy of public services (especially water supply and road capacity); and (3) providing adequate land use designations.

Protection of Agricultural Resources

Productive agricultural land is concentrated in North Monterey County and prime coastal zone agriculture has not been faced with the development threat found in other California counties. Since certification of the LCP, the County has maintained fairly tight agricultural zoning and few permits have raised issues of prime land conversion. Some agricultural lands have been protected through acquisitions, such as those acquired by the Elkhorn Slough Foundation at Triple M Ranch.

Review of an overlay of prime land onto the land use designations revealed several other areas where prime agricultural land is designated for residential uses, which could threaten the long-term viability of the agricultural land and recommendations for appropriate designations have been made (Appendix A). Also, recommendations are made to protect the grazing lands of Armstrong Ranch, at the border of City of Marina by revising the outdated light industrial designation. Because agricultural land can also be impacted by adjacent incompatible development, recommendations are made to strengthen the LCP's buffer provisions.

However, the Periodic Review concludes that the biggest threat to protection of agriculture as a priority use under the Coastal Act comes from an overdrafted water supply.

Adequacy of Water Supply

Like other coastal counties, coastal Monterey County is dependent on its own water sources, not imported water. As a result much of Monterey County's coastal zone has groundwater or surface water overdraft issues. The situation has worsened since LCP certification. Responses to date have

including planning for supplementing the local supplies, but no major projects have yet come close to fruition. Permit review has revealed that new development has continued to be approved which uses even more water.

North County Water Supply and Agricultural Use

(Most recommendations addressing this issue are found on: pp. 35 –37.)

North Monterey County supports substantial agricultural land, and groundwater is the source of all water use in the planning area. The groundwater supplies in North Monterey County are depleted and the area is experiencing significant overdraft conditions resulting in depression of the water table and seawater intrusion into the underlying aquifers. This condition threatens the current level of agriculture in North County. In addition, the potential to increase cultivation in turn further threatens the groundwater supply and quality.

Impacts to groundwater supplies were identified at the time of LCP certification and the situation has worsened significantly since LCP certification. The County and water management agencies continue to recognize this important issue and pursue a variety of measures to address the groundwater resources. Among these are: completion of the Pajaro Valley Water Basin Management Plan (2001) that identified water supply and distribution options; construction of the Harkins Slough diversion project; purchase of contract rights to the Central Valley Project; completion of the North Monterey County Hydrological Study and North County Action Plan that proposed water quality recommendations; and completion of the County Water Resources Agency's Comprehensive Water Resources Management Plan that identified several actions including acquiring agricultural parcels to preclude additional agricultural or residential development, expanding the Salinas Valley Water Project, drilling new wells in the Salinas Valley, construct a pipeline to supply a potable water system for the Granite Ridge area and constructing a desalination plant at Moss Landing.

The review indicates that implementation of LCP policies have been mixed. Since certification, despite limited water resources, new development has occurred; 785 new lots or units had been approved within the North County coastal zone, out of the 1351 allowed. However, Coastal permits issued by the County since 1988 have reflected a progressive shift toward stricter water supply control. Controls on subdivisions have increased since 1988. In addition, as review of coastal permits indicated stronger water conservation requirements have been implemented. But, in terms of agricultural water use, no coastal permits have been identified for conversions of steep slopes to agricultural lands, as is required by the LCP. Thus, no agricultural management plans, which could address water use, were prepared to the Commission's knowledge.

Given the current overdraft condition of the groundwater supplies, LCP implementation must limit new development and address agricultural water consumption in order to conform to Coastal Act policies to protect continued agriculture as a priority use.

Indeed, the fact that the County has approved the removal of agricultural lands from production to offset new residential water demand highlights the need to further limit residential development. The temporary moratorium on new subdivisions is no longer in effect and the County has not yet implemented any follow-up measures to further reduce buildout until a new water source is secured.

Thus, LCP policies are not being completely followed at present. Given the known severity of the water problem, all intensifications must be of concern. For example, new homes on vacant lots are not being approved further south on the Monterey Peninsula due to a water shortage there. The County has also not yet implemented a comprehensive program to address agricultural water use.

In implementing its LCP through coastal permitting, the County has controlled new development to minimize impacts to the groundwater resources as required by the Coastal Act. However, in light of current overdraft and projected future overdraft even without new development, continuing the status quo of allowing any further development that increases use of groundwater would not fulfill Coastal Act objectives. The County could further restrict new subdivision and second units under existing policy. But, since the policy has not been consistently interpreted in such a manner, recommendations suggest more explicit language. Additionally, policy revisions are also needed to address new development on vacant lots. If more development is to be approved, it should not further contribute individually or cumulatively to the overdraft of groundwater in order to conform to Coastal Act Sections 30231 and 30250. Recommendations suggest the County require appropriate offsets if development allowed. And as recommended, the County should meter groundwater extraction in order to devise appropriate solutions to protecting the resource.

Recommendations are also made to continue and accelerate efforts to comprehensively address water supply issues that are accomplished in a manner that is consistent with the Coastal Act. Reductions in existing demand, which naturally would focus on agricultural water use, must account for Coastal Act priority uses policies and any development of any new projects must be consistent with resource protection policies of the Coastal Act. Desalination facilities are being considered as one option to increasing potable water supplies for the Monterey Peninsula. However, such plant facilities may physically be located in North County at Moss Landing and could possibly serve North County as well. The North County LUP does not contain explicit policies on the development of such facilities. As recommended, the LCP needs to be updated to incorporate policies to guide any future proposal for such desalination facilities in a manner consistent with Coastal Act policies. Policies to guide provision of adequate water supplies also need to assure protection of environmentally sensitive habitat areas (ESHA) and water quality.

California-American Water Company Service Area

(Most recommendations addressing this issue are found on: pp. 37 –38.)

Surface water from the Carmel River is the major source of water use within the California American Water Company (Cal-Am) service area, and the River withdrawals threaten the riparian habitat and the fish resources of the river. Thus, Cal-Am is under strict limits on the amount of water that can be withdrawn from the River and produced from other sources. The lack of sufficient water supply to serve existing uses and new development in the Monterey Peninsula was a significant issue at the time of LCP certification. The LCP thus has a priority allocation system for Del Monte Forest. It has policies to support and require water conservation.

Since certification of the LCP, the Public Utilities Commission has imposed the noted upper limit on the amount of water that Cal-Am can produce and as a result all available water supplies for the Monterey Peninsula, including Del Monte Forest and part of the Carmel Area, are committed to serving existing development. Most new development approved and built since certification

contributed to this situation; however, the PUC order and resultant Monterey Peninsula Water Management Agency (MPWMA) requirements have halted further development. For a time, the County continued approving coastal permits, placing applicants on a water waiting list, but more recently stopped deeming applications complete where water was lacking. As a result a few applicants have requested and received approval for individual on-site wells.

In light of the worsened water situation in the Cal-Am service area, it is clear that a multi-pronged approach is needed to work toward achieving the Coastal Act objectives of preventing groundwater depletion and also giving priority to agricultural production on suitable soils. The County should formalize its procedures regarding deeming when applications are complete with regard to water availability. It should clarify that individual private systems such as wells are not allowed in the Cal-Am service area. It should review and update its water allocation priority list for Del Monte Forest.

Finally, and most significantly, the County and other agencies are working on a number of fronts to address short-term and long-term water problems. Continued and accelerated efforts are needed to reduce or eliminate dependence on Carmel River surface flows. Several agencies are involved in such efforts and should coordinate their work. Each program needs to be accomplished in a manner that protects coastal resources. The LCP needs to be updated to strengthen policies to guide review of new water facilities, including potential desalination facilities. The LCP needs to be updated to guarantee that any proposal to develop new water supplies will ensure that such development will be consistent with Coastal Act Section 30254 that governs new or expanded public works facilities as well as other Coastal Act policies.

Big Sur Valley Water Supply

(Most recommendations addressing this issue are found on: pp. 38 –39.)

New scientific information on the habitat and species of the Big Sur River is available that raises issues concerning habitat protection, particularly the need to ensure that stream water withdrawals to serve new development do not adversely impact stream flows necessary for indigenous species. The Big Sur River supports threatened red-legged frogs and steelhead trout. Sycamore Canyon contains a small stream with very low to intermittent flows.

The certified Monterey County LCP recognizes the sensitivity of the water resources and the habitats dependent on them. Studies undertaken as background for the LCP revealed the low flows of Sycamore Canyon and tributaries of the Big Sur River. The LCP thus contains a series of policies written to ensure that Big Sur's water resources are protected and that land use development has available watery supply and will not diminish the surface flows in coastal streams to levels that result in loss of plant or wildlife habitat.

Since certification of the LCP, new residential uses that draw from the Big Sur River have been approved in the watersheds but water resource monitoring called for in the certified LCP has not been implemented and the County has not yet comprehensively evaluated the effects of water use in these watersheds. Additional data has been collected for the Big Sur River and its tributary Post Creek, but none for Sycamore Canyon. A Big Sur Steelhead Enhancement Plan ahs recently been completed for State Parks and the Federal government is also preparing habitat enhancement plans

for the segments of the Big Sur River that they control. But, there has been no overall assessment of minimum water flows needed to protect the fish resources in these watersheds and no updated assessment of current and projected water use. Thus, there is no way to accurately determine the cumulative effect of individual authorizations and whether individual projects adequately considered minimum water needs to protect habitat and species, especially in low flow conditions. Such data are needed to determine if resources are being protected consistent with the Coastal Act. New development approved and built in the 15 years since certification has resulted in more River water use, but whether there have been any adverse impacts on the streams as a result is unknown.

In light of the continuing information gaps, a definitive conclusion of whether the LCP has been implemented in a manner consistent with Coastal Act objectives cannot be made. Recommendations are made to implement monitoring provisions and studies called for in the LCP.

Road Capacity and Design

Highway One is the main coastal route through Monterey County. Capacity problems are most evident in the northern and southern (i.e., Big Sur coast) segments where, consistent with Coastal Act Section 30254, it remains a two-land road. Given proposals for widening the highway through North Monterey County and some ambiguous policy direction in the certified LCP, recommendations for policy updates are made. For the Big Sur Coast, there is no disagreement that Highway One will remain two lanes; the main problem is keeping it open due to winter storms and resultant landslides. In response, the Coastal Commission and Caltrans have engaged in a comprehensive planning effort for Highway One in Big Sur.

Big Sur Coast Highway Management Plan

(Most recommendations addressing this issue are found on: pg. 41-48.)

Highway One south of the Carmel River in Monterey County is one of the state's most spectacular scenic resources and provides access along this rugged shoreline for more than three million visitors per year. It is also extremely vulnerable to the elements and requires substantial maintenance just to keep it functional.

The certified Monterey County LCP is primarily concerned with Highway One capacity and traffic management issues, given that it is mandated and physically constrained to stay two-lane. The LCP contains various policies directed toward making highway improvements such as turnouts, shoulders, and parking. The LCP also contains a request for an overall design theme for the construction and appearance of improvements within the Highway 1 right-of-way be developed by Caltrans in cooperation with the State Department of Parks and Recreation, the U. S. Forest Service and local citizens.

Since certification of the LCP the need for more specific directives for Highway One has continued to be recognized, but emphasis has changed. A series of storm-induced road closures, followed by attempts to reopen it and dispose of the landslide material on the roadway has demonstrated the need for pre-planned responses. This has become more of a necessity due to the establishment of the Monterey Bay National Marine Sanctuary with tightened restrictions on disposing material into the ocean. The County has approved several permits for Caltrans to perform highway improvements, but

the agency desires more certainty, speed, and intergovernmental coordination to keep the highway open and make improvements. As a result Caltrans has prepared, in cooperation with the Coastal Commission, the Coast Highway Management Plan, with specific guideline documents that address landslides and storm events; protecting the highway's aesthetic characteristics; and managing vegetation within the corridor.

In light of this new initiative, it is timely to revise the LCP to account for the new information derived from the planning process. This can be accomplished by providing more specific guidance in the LCP for various types of highway improvements likely to occur, including bridge replacement, pullouts, sidecasting, culvert replacements, and the like. There are also opportunities to revise some other policies addressing new development that would impact use of the highway with regard to traffic generation mitigation measures and to ensure highway improvements will protect scenic resources and public access. Additionally, there is a need for the various agencies involved in regulating highway improvements to coordinate through implementation of the Coast Highway Management Plan, as County responsibility alone is somewhat limited due to Commission retained and federal jurisdictions.

Land Use Designation and Density Issues

The County has been effective in implementing the LCP provisions that ensure that more intensive development is concentrated in the more urban communities of Las Lomas, Moss Landing, Castroville, and the Monterey Peninsula, and follows Coastal Act directives. Nevertheless, issue identification revealed two communities where general land use patterns warranted review: Moss Landing and Carmel Area Uplands.

Moss Landing Community Plan

(Most recommendations addressing this issue are found on: pg. 39.)

Moss Landing is a special community containing recreational boating facilities and coastaldependent industries. Competition for scarce land and water threatens the ability of the County to protect priority uses and to maintain the community fabric and its visual and natural resources.

The certified Monterey County LCP recognizes the historic, scenic, harbor, and, to some extent, environmentally sensitive habitat resources of Moss Landing. The LCP has a separate chapter devoted to the community with a series of policies to guide additional harbor development, provide access, and protect resources. In a nutshell, priority uses are each assigned different locations in Moss Landing, such as coastal-dependent, light industrial uses on the Island and visitor-serving commercial uses along portions of the west side of Highway One.

Since certification of the LCP there have been substantial changes in the Moss Landing area, the primary change being the expansion of coastal-dependent marine research facilities on the Island (MBARI) and off of Moss Landing Road (relocated Moss Landing Marine laboratory). Other developments approved by the County have included a convenience market, four retail shops, a bed and breakfast, fish processing, bait and tackle, a restroom at the harbor, and power plant improvements. In all cases the approved projects were allowed uses and many incorporated mitigation measures to protect resources. But in some cases, they did not further the general vision

articulated in the *North County Land Use Plan*. Recent proposals and planning exercises have revealed the immediate need to accommodate dredge spoils, address erosion in the harbor, provide drainage and other infrastructure improvements, and improve harbor facilities.

In light of land use decisions since 1988, available opportunity sites, and projected development, recommendations are made to revise and updated the plan for the Moss Landing area to protect community character and prevent resource damage. For some sites, updated designations are needed to accommodate the priority uses that have occurred and to determine the appropriate locations and densities for other priority uses.

Additionally, the County's land use authority is limited in this area and other agencies have significant roles to play. Thus there is a needed for coordinated planning and regulation by all the relevant agencies.

Carmel Area Uplands

(Most recommendations addressing this issue are found on: pp. 39-40.)

The Carmel Uplands, east of Highway One and Carmel Highlands, consist of very scenic lands, rural residential development, and large tracts of grazing lands, public recreational lands, and environmentally sensitive habitats. Among the sensitive plant communities are Monterey pine, Gowen cypress, and central maritime chaparral. The 6,318-acre Uplands area contains approximately 81 parcels, of which about two dozen remain vacant and in private ownership.

The certified Monterey County LCP recognizes the sensitivity of these lands through application of protective scenic, habitat, and steep slope policies and generally very low residential density residential zoning, except for Odello East and substantial overnight accommodations on Point Lobos Ranch. The LCP contains many site-specific directives for these and other large holdings, with the general intent to cluster new development. The LCP states that the development of large properties (over 50 acres) and ranches should be guided by an overall management plan.

Since certification of the LCP several of these lands have been acquired for open space purposes, including much of Palo Corona Ranch, Odello-East, and Point Lobos Ranch. The latter acquisition ended plans for any new hotels. Several parcels have been developed pursuant to coastal permits. As part of the permit process, additional lands have been placed under conservation easements. In applying the protective policies of the LCP, the County has attempted to mitigate for adverse impacts. But in allowing new houses averaging over 5,000 square feet and associated structures, driveways, and septic systems, there has been resulting environmentally sensitive maritime chaparral habitat loss and additional visible development. The presence of the new homes and the background biological information associated with them has increased awareness of the sensitivity of the area. At the same time, some property acquisitions have increased the potential for additional public use of the Uplands.

The LCP needs updating in light of the changed development patterns, ownerships, and protective legal instruments in the Uplands. LCP updates are needed to better reflect new owners' objectives for open space preservation over residential development. And, LCP policies need to be fully applied and in some cases clarified so that environmental damage is limited on any of the remaining

parcels where development can occur. It is also desirable to re-examine the current designations and policies for the Uplands through preparation of a more detailed area plan. Such a plan could develop parameters for individual site developments, set priorities for acquisitions, identify candidate development transfer and receiver sites, integrate habitat and recreational enhancements, design criteria for new homes, update trail corridor locations, and possibly locate a hostel site. Many entities continue to be actively pursuing open space preservation in this area, and their efforts deserve support. In turn it is important that agreements reached that allow for some future development in return for some preservation be structured in a manner that best furthers Coastal Act objectives.

Other Land Use and Infrastructure Issues

Monterey County has established firm urban service limits with regard to wastewater collection as a result of Coastal Commission permits issued in the early 1980's for each of the County's urban systems. The County implementation of the LCP has continued to fully carry out policies to maintain these wastewater service limits. In rural areas dependent on on-site solutions, the LCP needs to be updated to include options to conventional treatment systems as alternatives to requiring either hookup to sewer systems or reduction in recreational opportunities due to capacity limitations to fully carry out Coastal Act policies. Recommendations are made in Appendix A to add such provisions. The initial review (Appendix A) also identified some additional areas where land use designation updates are needed, including: Gorda, Moss Landing Marine Lab, Oak Hills Open Space, Point Sur, and Fort Ord in order reflect current conditions, new acquisitions, protection of habitat and scenic resources and concentration of development policies of the Coastal Act. It also outlined recommendations for updating provisions for granting certificates of compliance which establish legality of parcels and updating standards guiding development of caretakers units and workshop conversions.

Chapter 3 - Environmentally Sensitive Habitat Areas (ESHA)

As noted the Monterey County coastal zone is rich in sensitive plant and animal habitats and the issue of their protection has arisen in many County permits. This issue was well established during LCP preparation and as a result the LCP has a comprehensive set of policies for protecting environmentally sensitive habitat areas (ESHA), covering all phases of ESHA evaluation and protection.

The Periodic Review indicates that some revisions to the overall ESHA policies are needed. The preliminary review (Appendix A) made recommendations to update a variety of policies to be consistent with current policy implementation and practices of the Commission and current scientific understanding. Not all ESHA policies in the four LUP segments contain the same protective components. For example, the LCP needs to update the policies that outline the process for identifying environmentally sensitive habitat areas. Clear definitions are needed and procedures to guide site-specific ESHA determinations and preparation of biological reports base on resources on the ground need to be revised. Such recommendations were made as part of the preliminary review comments. In addition, policy revisions are needed to emphasize that only limited uses are allowed in ESHA, to prohibit creation of new lots that would result in building sites within ESHA, to strengthen required mitigation measures for habitat loss and strengthen policies for buffers and

setbacks. The LCP currently lacks adequate policies to address some activities that new scientific knowledge has shown may affect environmentally sensitive habitat areas. Recommendations are made to add new or revised policies to address streambank protection activities, predator management, beach grooming, invasive species control, livestock grazing and night lighting. Recommendations are also made to address six areas where the LCP needs to update land use designations to reflect changed conditions and increased protection of ESHA, including Moro Cojo Slough Wetlands, Potrero Road Open Space, Odello-West, Sandholdt Road Area, Watertek Wastewater Plant, and Long Valley.

Also, since certification the status of some species has changed and more information has become available about the habitat requirements. Based on such knowledge, recommendations are made to update policies on Shoreline Resources, Monarch Butterflies, Steelhead Streams, Non-native Trees Timber Harvest, and Tree Removal. Several specific habitat concerns were evaluated in detail as follows.

Central Coast Maritime Chaparral

(Most recommendations addressing this issue are found on: pp. 52 –56.)

Since certification of the LCP, new information and better understanding of the importance of maritime chaparral habitat as an environmentally sensitive habitat area has emerged. And, resource managers know more about the resource management measures needed to more effectively to protect and restore the habitat. Efforts have increased to protect this habitat through land acquisitions. However, the overall extent of the habitat has been impacted by incremental development of existing residential lots and by agricultural development. The LCP does not fully protect maritime chaparral as ESHA and permit review revealed that the County has continued to authorize new development in and adjacent to maritime chaparral, which continues to incrementally fragment and impact this ESHA.

The County LCP regulatory measures are not as explicit, directive, and detailed as needed, and implementation has not resulted in full conformance to Coastal Act policies to protect maritime chaparral as ESHA. In addition, proactive management of the maritime chaparral ecosystem, including such measures as controlling invasive species and undertaking prescribed burns, is necessary for the long-term health of the environmentally sensitive habitat area. While some recent efforts are beginning in this regard, there has yet to be a level of resource management established to ensure the long-term health of the maritime chaparral community.

The Periodic Review suggests a multi-pronged approach to addressing maritime chaparral habitat protection. Regulatory provisions should be updated and revised to ensure full identification of maritime chaparral as ESHA. Better guidance for consultants, planners, and decision-makers needs to be developed. Improved and more consistently worded LCP policies and a guidance document for implementing the plan need to account for the historic and current extent of habitat and the needs of the habitat as a whole in directing protection and restoration of the habitat. Improved permit conditions and related easement provisions are necessary prerequisites. Also, it appears necessary for some entity, probably other than the County, to accept such easements and monitor and manage

them over time. Such an effort should be complemented by continued efforts to acquire additional maritime chaparral lands or easements over them.

For the long term, the sum total of these measures would best be guided by an overall comprehensive plan for preserving and enhancing the dwindling maritime chaparral habitat. This would allow for decisions about what areas need protection, for example, to be made on a collaborative, comprehensive basis, rather than on a case-by-case, site-specific, non-collaborative basis. It would provide the context for preparing biologic reports and resultant recommendations for individual parcels that is currently lacking and, hence would absolve each individual consultant report from having to do so.

The LCP needs to be revised and updated to strengthen protections for maritime chaparral and to promote protection and restoration of the overall maritime chaparral habitat ecosystem. Recommendations are made to better implement and revise some LCP policies, and also to develop provisions to guide maritime chaparral management.

Monterey Pine Forest

(Most recommendations addressing this issue are found on: pp. 56-58.)

Monterey pine forest habitat is one of the most significant coastal resources found in Monterey County. Native Monterey pines are considered a sensitive species (CNPS 1B), and indigenous Monterey pine forest habitat occurs in only five locations in the world, three of which are in the California coastal zone (Año Nuevo, Monterey Peninsula, Cambria). The historic extent and range of Monterey pine was about 18,000 acres on the Peninsula, limited to coastal areas typified by summer fog, poor soils, and mild temperatures. A number of other rare, threatened, or endangered species also are associated with the Monterey pine forest, which further underscores its importance as a limited and unique coastal habitat type.

The certified *Monterey County LCP* recognizes the sensitivity of Monterey pine forest, and some Monterey pine forest areas in the Carmel and Del Monte Forest planning areas are identified as ESHA, including specific associations with Bishop Pine and Gowen Cypress. The LUP policies and related IP ordinances also include a variety of Monterey pine standards, including requirements to protect Monterey pine forest ESHA, to minimize impacts to the habitat and scenic resource values of Monterey pine, and to avoid, minimize, and mitigate tree cutting. The primary mechanism for protection of Monterey pine is the requirement that a forest management plan be prepared for each parcel, at the time an individual development first impacts the sensitive habitat on the parcel.

Since certification of the LCP in 1988, significant new knowledge about Monterey pine and the high sensitivity of this species and its habitat has been developed. This includes scientific studies of the genetics of Monterey pine, as well as the ecology of Monterey pine forest habitat and its various subtypes. On the Monterey Peninsula, the native pine forest has been classified into an "ecological staircase," and new, more focused conservation strategies for Monterey pine forest habitats have been developed. Environmental circumstances have changed as well. Most important, the species has been placed under significant new stress since the LCP was certified by the emergence of a pine pitch canker epidemic. New development approved and built in the 15 years since LCP certification has also continued to impact Monterey pine forest habitat. Analysis of LCP implementation reveals

that cumulatively, significant numbers of Monterey pines have been removed through individual developments. In Del Monte Forest, some areas of pine forest habitat have been further fragmented and degraded through residential subdivision and home construction, and major development proposals are pending that would result in significant impacts to large, intact, ecologically-connected acreages of Monterey pine forest habitat.

In light of new knowledge, changed environmental circumstances, and continuing development impacts on Monterey pine forest, it is clear that higher levels of protection for this sensitive habitat are needed. The LCP needs to be updated to assure that Monterey pine forest habitat is protected consistent with the Coastal Act. In particular, the LCP needs to be amended to clarify that Monterey pine forest habitat should be treated generally as ESHA unless site-specific circumstances and biological review show otherwise. Significant intact stands of Monterey pine remain in the Carmel and Del Monte Forest areas, and at the northern extremity of the Big Sur Coast area. All of these stands need to be consistently designated and protected as ESHA. Factors to consider in identifying Monterey pine forest ESHA include extent of the habitat, degree of fragmentation, health and relative degradation of the canopy and understory, and the relative uniqueness and diversity of the habitat.

The LCP also needs to be updated to reflect our improved understandings of Monterey pine as a sensitive forest <u>habitat</u> or biological community, not simply a sensitive tree species that is also a scenic resource. The current LCP has strong tree protection and mitigation standards, but it also allows tree removal pursuant to a forest management plan unless an area is specifically identified as ESHA. The policies do not adequately address the need to identify Monterey pine ESHA, focusing instead on the identification of "significant trees" and requiring mitigation through planting of new trees.

Given our current understandings of Monterey pine forest ecology, the regulatory emphasis should be shifted to stress a strategy of preservation of suitable growing areas (i.e., habitat areas), rather than the current strategy of protecting (or replanting) individual trees. Also, strengthened LCP policies are needed to clearly prohibit all non-resource dependent development within identified Monterey pine forest ESHA. Finally, the LCP should be updated to provide a framework for more comprehensive Monterey pine forest habitat management. This should include updated policies, standards, and management measures to address long-term preservation of identified habitat, protection of genetic diversity, management of pitch canker, new development and redevelopment within the forest canopy, and restoration of suitable habitat areas or currently degraded habitats.

Western Snowy Plover

(Most recommendations addressing this issue are found on: pg. 58.)

Since certification of the LCP, new information has identified threats to the plover habitat and species along shoreline areas. Recommendations are made to assure protection of snowy plover in a manner that protect public access.

Dune Habitat

(Most recommendations addressing this issue are found on: pp. 58-59.)

Sand dunes occur along portions of the County's coastal zone and in neighboring jurisdictions. Some of the County's sand dunes are publicly owned (e.g., Salinas River State Beach, Salinas River National Wildlife Refuge, Fort Ord). Sand dunes in the Carmel Area are limited to locations on Carmel River State Beach. Privately owned dunes are located primarily in the Del Monte Forest.

Since certification of the LCP, portions of the natural dune system have been reduced and fragmented, increasing the threats to survival of its unique species. Policies need to be strengthened to identify indigenous dune plants as ESHA and to avoid or minimize further incremental loss of this environmentally sensitive habitat area. The LCP affords significant protection of dunes as ESHA in most of the LCP planning areas. Policies assure that where development is required to avoid a taking, development is minimized and sited and designed to be the least environmentally damaging alternative. However, in the Del Monte Forest Area, policies do not limit development in dune ESHA to the same extent as in other planning areas and do not adequately limit development and intensification of uses where a potential taking does not exist. The policies do not adequately limit development in this ESHA as a result of additions to or reconstruction of existing facilities. Recommendations suggest revising policies to limit development in dunes in the Del Monte Forest. As with other ESHA, recommendations suggest that guidance be developed to assist in biological delineation and assessments of this habitat. As resources allow, a comprehensive dune management plan should be developed to guide incremental site development and redevelopment to maximize protection of this ESHA.

Chapter 4 - Water Quality and Marine Resources

Protection of water quality and marine resources in coastal waters, including protecting the biological productivity of coastal waters, streams, wetlands, estuaries and lakes are fundamental objectives of the Coastal Act. To provide for water quality protection, the LCP contains a multifaceted approach to controlling non-point source pollution that relies on overall land use prescriptions, density limitations, siting and design criteria, bare ground limitations, and comprehensive plans to carry out Coastal Act policies for water quality and resource protection. The Periodic Review evaluated in detail LCP implementation of water quality protection in two areas of high biological productivity threatened by point and non-point source pollution -- the Elkhorn Slough/Moro Slough Watershed complex and Carmel Bay.

North County Water Quality and Watershed Restoration.

(Most recommendations addressing this issue are found on: pp. 59 -60.)

The North County planning area contains a significant portion of the nearly 45,000-acre Elkhorn Slough/Moro Cojo Slough watershed complex. Elkhorn Slough is one of the few, relatively undisturbed coastal wetlands remaining in California. The watersheds draining into Elkhorn Slough and Moro Cojo Sloughs have experienced significant erosion and continue to be threatened from agricultural activities and new development. The Natural Resources Conservation Service has indicated that without appropriate action, approximately 60 aces of wetlands could be lost due to the resultant deposition of these sediments within the watershed.

The County has sponsored individual wetland management plans for the Elkhorn and Moro Cojo Sloughs that included some watershed-wide provisions aimed at controlling non-point source pollution in the Elkhorn Slough/lower Salinas River watershed. Additional watershed restoration efforts have occurred through public and private projects designed to reduce erosion on agricultural lands, and help to restore natural tidal and stream flows in coastal lagoons, marshes and streams throughout the County's coastal zone.

The County has implemented LCP requirements for erosion control measures in new development, but it is not known if these measures have been successful in controlling polluted runoff consistent with the Coastal Act because long-term monitoring and implementation of remedial actions were generally not required by coastal permits. The County has not been fully successful in carrying out LCP policies to locate new development off of critical erosion areas, however, and has not adequately prevented additional clearing of steep slopes. Additionally, the County is limited in its ability to control polluted runoff from existing development or existing agricultural operations, since regulations are triggered only by new development. And while provisions of the Erosion Control Ordinance addressing existing erosion are comprehensive, the County lacks a coordinated effort that systematically and comprehensively enforces the requirements in a way that significantly reduces the impacts of polluted runoff

The LCP embraced the concept of Watershed Restoration Areas, designed to reduce erosion and sedimentation within the area to a level below a certain land disturbance threshold. However, restoration plans for designated Watershed Restoration Areas have not been prepared and thus individual developments proposed in WRAs have not been required to contribute their share toward erosion reduction, or to make financial contributions toward watershed restoration efforts. Other comprehensive planning called for in the LCP has yet to occur as well: the County has not implemented an agricultural runoff-monitoring program nor has it prepared the comprehensive natural resource and water basin management plan. Therefore, recommendations are made to more fully implement LCP policies, to continue and expand agricultural erosion control programs and to prepare a comprehensive non-point source pollution control plan.

Carmel Bay Area of Special Biological Significance and Watershed Restoration

(Most recommendations addressing this issue are found on: pp. 60-61.)

Carmel Bay has been designated by the State Water Resources Control Board as an Area of Special Biological Significance, and by the Department of Fish and Game as an Ecological Reserve. The Carmel Bay ASBS receives surface water runoff from three main watersheds along the Carmel coast, including the Pescadero Creek watershed, which is located in both the Del Monte Forest and Carmel planning areas, the Carmel River watershed and the San Jose Creek watershed, which are both located in the Carmel planning area. The Carmel Bay ASBS and Ecological Reserve are threatened by both non-point and point source pollution due to urban runoff from residential, commercial and agricultural uses, as well as high levels of nitrogen and pesticides from golf course maintenance. Because of the size of the watershed draining to the ASBS, which is at least 225 square miles, non-point source discharges from such areas constitute a considerable water quality threat.

In addition to the erosion and grading control ordinances, protection of water quality in the Carmel Bay ASBS relies on the Del Monte Forest LUP policy regarding specific site coverage limitations intended to minimize runoff from the development of single-family dwellings in the Pescadero Watershed. Although the County granted variances to nearly 19 percent of those projects that exceeded lot coverage limits, many resulted in a net reduction in overall impervious coverage because pre-existing coverage was removed or modified. However, while the County appears to have applied some requirements to limit impervious surface coverage for additions and new single family dwellings, the LCP provisions for monitoring have not been implemented, therefore it appears that data are lacking to determine whether implementation of current LCP policies and standards protecting water quality in Carmel Bay are consistent with Coastal Act requirements. In the absence of such data, the County, as a precautionary measure should assure that new development will not result in any increase in runoff from a site, and a monitoring program should be initiated to ensure that the required runoff controls are installed and remain functional. Recommendations have also been made to consolidate outfall systems that drain to Carmel Bay, consider options to modify and/or remove outfalls and replace or retrofit storm drains, control golf course runoff, and increase the use of reclaimed water.

Other Water Quality Issues

Additionally, since LCP certification new program and guidelines for addressing polluted runoff have been developed, such that existing LCP standards and programs need to be updated. Recommendations have been made to incorporate revised, up-to-date pollution prevention techniques into the LCP, including policies that: ensure environmentally acceptable disposal of dredge materials not suitable for beach replenishment; clarify that policies dealing with sewage outfall discharges apply to all wastewater-generating projects that discharge into any coastal water; ensure that erosion control and runoff policies are applied to all development; ensure that confined animal facilities do not result in water quality degradation; revise the septic ordinance to better prevent contamination consistent with RWQCB requirements; and adopt policies that address repair and replacement of pipelines in a manner most protective of water quality, habitat and public access.

Because watershed planning as a means to apply various individual water quality measures to an entire drainage basin is not yet well advanced in the County, recommendations are made to encourage development of a comprehensive approached to watershed planning.

And, enforcement of erosion control ordinance violations has not been as aggressive as authorized by the LCP. Full implementation of enforcement actions provided for in the LCP could reduce the amount and severity of erosion throughout the watershed, reduce the adverse impacts resulting from deposition into water courses or water bodies, and aid in recovering funds from violators that would support watershed restoration and other water quality protection efforts.

Chapter 5 - Public Access and Recreation

(Most recommendations addressing this issue are found on: pp. 61-68.)

Protecting, providing and enhancing public access to the shoreline and recreation areas are fundamental objectives of the Coastal Act. The access policies of the certified LCP are generally

comprehensive. Since certification of the LCP, a number of the specific access recommendations of the LCP have been implemented at least in part. Eleven (out of twelve) new access points have been provided through Commission permits at Spanish Bay in Del Monte Forest. Additional access improvements have been accomplished through Commission appeals of County permits in Del Monte Forest. The County required access to the Salinas River State Beach and to the shoreline north of Sandholdt Road. Public access has increased through State Park improvements at three access points in Big Sur and expansion of trails. New acquisitions by State Parks have occurred at Salinas River State Beach, Limekiln State Park, and Point Sur State Historic Park (through transfer of the former Point Sur Naval Facilities). And additional access will be provided through the planned transfer of federal lands to State Parks at the former military base at Fort Ord.

But while new access points are available, the County has made only limited progress in implementing the full range of general and site-specific recommendations of the Access Component designed to expand and enhance public access. Only 15% of all the access points identified throughout the county have had the full range of measures called for in the certified LCP fully implemented. Some of the actions to provide public access have occurred only through an appeal of County actions. In addition, while the County has been diligent in requiring some access management plans as conditions of development, continued condition compliance, monitoring and management of access that has been required is not always carried out as called for in the LCP. Access distribution has not been fully achieved and some access has been impacted through closure of trail segments and road abandonment.

Trail planning and development by a variety of agencies has occurred since certification, including efforts to plan for and develop the California Coastal Trail (CCT) and the Monterey Bay Sanctuary Scenic Trail (MBSST). Through LCP implementation the County has facilitated some trail enhancements and implemented some portions of the through coastal trail in the North County and Del Monte Forest planning areas. But the County has not been consistent in applying trail access requirements and in evaluating siting in order to facilitate implementation of the trail plan. A couple of trail segments have been closed, negatively affecting public access. Elimination of impairments to trail use and implementation of other trails that enhance recreational opportunities are needed in order to maximize public access consistent with the Coastal Act policies.

As recommended, an update of the Access Component is needed to incorporate new information to reflect current conditions at various access points and trails. Specific recommendations for access points and trail linkages are provided in Appendices B and C. Recommendations also suggest that revisions to expand access improvements and management measures are needed to maximize access and recreational opportunities. Recommendations call for the County to update the Trail Plan to reflect current conditions and a broader range of trail users, and to strengthen requirements to implement the CCT and maximize trail development. Recommendations also suggest LCP revisions address temporary events and to ensure access is managed to avoid impacts to environmentally sensitive habitat areas. An update could also provide a consistent format and content for access requirements throughout all four LUPs.

The Periodic Review recommends LCP changes to assure that any proposed road abandonment or trail closures is reviewed through the permit process so that access is not diminished. It also encourages the County to update the LCP to include Malpaso Creek Beach and Yankee Point Beach,

two areas of deferred certification, with adequate access provisions. Recommendations also urge the County to accept outstanding offers to dedicate easements to ensure public access.

Some additional visitor serving/overnight accommodations have been developed since certification, but to protect existing visitor serving facilities, the Periodic Review recommends protecting campground spaces, revising policies to assure the type and intensity of allowed facilities avoids impacts to resources and restricting timeshare conversions. Recommendations also suggest revising policies related to short-term rentals.

The evaluation also revealed that some general access policy updates were needed. Recommendations are suggested for revising and expanding policies to address public access in ESHA and to ensure that temporary events do not diminish access. (PA-2: Public Access in ESHA and PA-4: Temporary Events, respectively in Appendix A). Finally, although the County has adequate general policies regarding parking for shoreline access, changed circumstances at Monastery and Pfeiffer Beaches suggest the need for LCP text updates pertaining to these two locations (Issues PA-8: Sycamore Canyon and PA-9: Carmel River State Beach, respectively, in Appendix A).

Chapter 6 - Coastal Hazards

The certified Monterey County LCP has provisions to address steep slopes and unstable areas, shoreline hazards, coastal flooding and wildland fire. In general, the LCP seeks to site and design new development to minimize risks and to avoid new development in high hazard areas. Policies require that areas of a parcel subject to high hazard are generally not suitable for development and open space uses are preferred. Land divisions are restricted unless it can be demonstrated that development will not create nor contribute to hazards nor require construction of protective devices. Geotechnical reports are required for any new development in high hazard areas.

Shoreline Hazards

(Most recommendations addressing this issue are found on: pp. 68 -70.)

Since LCP certification relatively few shoreline protective devices have been approved in Monterey County, due in part to the rocky shoreline that protects most of the area. However, based on permit experience, in cases where shoreline protective devices have been approved, the County has generally favored mitigation over avoidance when evaluating such permit requests. And it is possible that additional shoreline armoring, especially along the scenic Del Monte Forest shoreline, may occur based on: (1) how the County has interpreted existing policies in the past; (2) a lack of adequate consideration of alternatives designed to avoid the need for armoring; and (3) lack of requirements to incorporate state-of-the-art mitigation measures to design and disguise such devices.

To avoid the need for future shoreline protective devices along this scenic shoreline, recommendations are made to update the LCP with more detailed policies to address setback methodologies, geotechnical reporting requirements, and guarantees that no future seawalls will be proposed for new development. Recommendations also suggest policies revisions to ensure that adequate alternatives analysis are conducted and state of the art techniques are applied to both structural and visual designs to protect public access and scenic resources. The LCP also needs

more clarity in how to address additions and improvements to structures on the blufftops or in other hazardous areas. Recommendations are made to ensure that additions comply with hazard area setback requirements. Additionally, a recommendation has been made to develop a detailed shoreline management plan for the Del Monte Forest planning area that develops a comprehensive strategy to avoid or minimize armoring and, where armoring is allowed, to fully mitigate impacts through design standards.

Flooding Hazards

LCP policies address flood hazards by restricting new or intensified development in the 100- year floodplain. Policies generally note that non-structural means of flood control that do not result in significant impacts to the river or its scenic natural resource values are preferred. Structural controls are allowed, but only under limited circumstances (when outside the zone or riparian vegetation, if erosion and sedimentation is minimized, and if habitat and scenic values are maintained and protected).

Since LCP certification, the County Department of Water Resources has artificially breached both the Salinas and Carmel Rivers generally annually, sometimes without benefit of an approved permit. These coastal rivers and their lagoons support abundant aquatic and avian species, including some that are rare, threatened or endangered. The annual breaching of these coastal lagoons can have adverse impacts, both directly on the lagoon environments and indirectly due to impacts from heavy equipment necessary to carry out such activities. More extensive flood management planning to consider alternatives to breaching lagoon mouths at the Carmel River and Salinas River Lagoons is recommended. Planning for flood management at Tembladero Slough and along the Pajaro River will assure that the LCP will be implemented in conformance with the resource protection and hazard policies of the Coastal Act.

In addressing flood hazards along the County's rivers and sloughs, protection of environmentally sensitive habitat areas continues to be problematic. In light of direct and indirect impacts breaching has on environmentally sensitive habitats and water quality, it is clear that flood control efforts must also take into account potential resource protection requirements. The Periodic Review recommends the County require flood management projects to be designed within a watershed management framework that supports the consideration of alternatives to breaching of the Pajaro, Salinas, and Carmel River Lagoons. To ensure that the LCP is implemented in conformance with the resource protection and hazard policies of the Coastal Act, future flood management of the Tembladero Slough and the Pajaro River must seek environmentally superior alternatives that protect environmentally sensitive habitat area values in addition to increased flood capacity. The County should also seek to minimize the future need for increased flood capacity through requiring infiltration and detention of stormwater within the urban growth areas.

Fire Hazards

(Most recommendations addressing this issue are found on: pp. 70 –71.)

The LCP generally calls for new development to avoid being located in extreme fire hazard areas. Additionally, depending on the location of a proposed project and whether the access road is public or private, certain road standards will apply. The land use plans further require that roads serving

new residential development be accessible by emergency vehicles, and that development approved within or adjacent to high or very high fire hazard areas use fire-resistant materials in the construction of exterior walls and fire-retardant roofing materials. In most cases, the LCP calls for submittal of development applications to the local fire district for their review and recommendations. Unfortunately, many of the policies relating to fire hazard prevention are scattered throughout the various LCP component documents and other referenced sources, which has lead to problems balancing fire protection efforts with other required habitat and scenic resource protection provisions.

Since certification, development has continued to occur in rural areas, which can be highly susceptible to wildfires. Development has also occurred along the coast in remote, rugged areas, difficult to reach by emergency vehicles. Many of these areas often contain sensitive habitats, are prone to erosion, and are accessible only by narrow, unimproved roads. LCP implementation has not always adequately considered alternatives in development standards that would minimize impacts to scenic and natural resources when applying required fire prevention standards. Recommendations are made to consolidate, revise and cross-reference the various provisions related to fire hazards in order to clarify the steps and measures necessary to provide fire safety while at the same time increasing awareness of siting and design measures to ensure the protection of scenic and other natural resources. The review also recommends that LCP revisions are needed so that greater consideration is given to changes in development siting and design as a means to minimize fire hazards and impacts to coastal resources and public viewsheds.

Chapter 7 - Scenic Resources

Protection of the County's scenic and visual resources is one of the most significant issues of the County's Local Coastal Program. Strong resource protection policies established in the County's LCP are intended to safeguard the County's natural appearance and scenic beauty throughout the coastal zone. Policies protecting visual resources are, therefore, aimed at protecting areas within the public "viewshed." The primary goals of the County's LCP protection policies are to preserve scenic resources in perpetuity, to protect unique landscapes, and restore visually degraded areas. The LCP also contains development standards to protect the character and historical resources of special coastal communities in areas such as Moss Landing, the unincorporated areas surrounding the City of Carmel-by-the-Sea, which are part of the Carmel Planning area, and rural community centers along the Big Sur Coast.

Based on staff review of the County's last 15 years of LCP implementation, the most significant LCP implementation issues concerning scenic resource protection in Monterey County fall into three main areas: protection of important viewsheds, including Big Sur's critical viewshed, community character and historic resource protection, and mitigation of the adverse visual impacts of specific development types.

Big Sur Critical Viewshed

(Most recommendations addressing this issue are found on: pp. 75 –80.)

The coastal viewshed of the Big Sur coast has been recognized as a national treasure requiring a very high level of protection, thus the LCP includes a strong key policy that prohibits, with some specific exceptions, all future public or private development within the Critical Viewshed (defined in the Big Sur Coast Land Use Plan as any area visible from Highway 1 and major public viewing areas including turnouts and beaches). The policy provides some specific limited exceptions for: Rural Community Centers; essential ranching structures; public Highway 1 facilities; some private highway improvements; some utility improvements; State Park Parking areas; some coastal-dependent uses; and vacant residential parcels in the Otter Cove and Rocky Point areas that remained at the time of certification.

Implementation of Monterey County's critical viewshed protection policy for the Big Sur Coast can be heralded as one of California's great regulatory success stories. This policy is unique because it provides an objective, easily understood, unequivocal standard: either development is visible or not. Except for development in the excepted Otter Cove and Rocky Point tracts and three other exception categories, the pre-LCP proliferation of new residences on vacant lots in view of Highway 1 has been halted. So, too, has the LCP been remarkably successful in ending the creation of new vacant residential parcels in the Critical Viewshed.

However, the Big Sur coast critical viewshed continues to be threatened by man-made development. Review of coastal development permits issued since certification, backed by comprehensive staff field inspections and development and analysis of a visual resource inventory, has also revealed that some new development has continued to be approved that intrudes on the critical viewshed. First-and second-story additions have been allowed that were not supposed to be visible, but in fact have resulted in increased visibility in the critical viewshed; and in some cases, what were to be minor additions became complete replacements resulting in substantially greater visibility of the resulting structures.

Additionally, some activities not requiring coastal permit authorization (such as minor tree removal and minor additions to existing structures) have resulted in additional visibility of existing structures. Recent trends in residential and commercial accessory features have also impacted the scenic corridor along Highway 1. Elaborate gates, replacement of residential fences with solid walls, utility poles, intrusive lighting, landscaping that blocks public views, sign clutter, and other accessory developments continue to detract from the Big Sur Coast Highway's scenic values. Such incremental developments have resulted in some cumulative degradation of the viewshed.

Thus, with respect to the Big Sur critical viewshed, the LCP has not been implemented in a manner totally consistent with Coastal Act objectives to protect scenic resources. Part of this is due to the County not fully implementing LCP policies protecting the critical viewshed, and part of this is due to exceptions provided for in the LCP. Thus, recommendations have been made to clarify visibility policies, especially for additions to and replacement of structures, as well as to continue eliminating the development potential of parcels in the critical viewshed.

Efforts to reduce the potential for development within the critical viewshed to date have included purchasing land, or easements on lands, in the critical viewshed to remove the development potential of a parcel, where no building site outside of the viewshed exists. While \$20 million of Proposition 70 funds were used to purchase lands or scenic easements across lands that were within the public

viewshed, at least 35 parcels with no apparent buildable sites outside of the viewshed remain. Therefore recommendations have been made to continue to retire the development potential on these parcels. However, review of the previous parcels purchased, and the first-come-first-serve manner in which the program was carried out in the past indicates that the County should develop a more proactive process to identify only those parcels with no buildable sites outside of the critical viewshed, and prioritize purchases so that the most problematic parcels with respect to potential for development within the critical viewshed get protected.

A transfer of development program which allows development potential of lots that have no buildable site outside of the critical viewshed to be transferred to lots with buildable sites outside of the critical viewshed, is also established in the LCP. Unfortunately, this program has been used only sparingly to date, and the legal paperwork necessary to establish scenic easements across the donor parcels in a manner consistent with County regulatory requirements (offers of dedication for scenic easements) has not always been obtained. Additionally, as currently written, the policy does not apply to the Rocky Point or Otter Cove exception areas, which still have some vacant parcels that could be developed. Therefore recommendations have been provided to extend use of the TDC program in these exception areas.

Other Visual Resource Issues

With regards to more general visual resources protection throughout the County, issue scoping and permit review also revealed that certain types of development (including power lines, wireless communication towers, and extra-large homes) elicit concern that they degrade scenic resources and public views where they are visible. Therefore, recommendations are made to clarify the exceptions to utility undergrounding requirements, require use of the latest technologies for reducing cellular tower visual impacts, and to develop a process and criteria to determine what type and where requirements for large home requirements should be imposed. Ridgetop protective policies vary by segment, therefore, recommendations have been made for more consistent and clarified polices to prevent ridgetop development. Additionally, recommendations have been made for preserving landmark trees.

Commission experience with County permitting also indicated that while the County does consider views from some beaches (those in North County and throughout Big Sur Coast), it generally has not considered views from vantage points located along the shoreline or offshore. Recommendations have thus been made for requiring consideration of these views where warranted.

In addition to protecting the County's highly scenic viewshed, the LCP requires that historic resources be protected, and that neighborhoods, which because of their unique characteristics are popular visitor destination points for recreational uses, be protected. The City of Carmel-by-the-Sea is a popular visitor destination point for recreational use, and portions of the unincorporated Carmel area that surrounds the City share many of the same characteristics. These areas, which include Carmel Point, Carmel Meadows, and Hatton Fields, also serve as accessways to the City's popular natural and commercial attractions. Since these portions of the Carmel planning area are almost indistinguishable from lands within the City of Carmel-by-the-Sea, where the issues of community character and historic resource protection have been main concerns in developing the City's recent

LUP, protection of community character in these areas is also of concern with regards to the County's LCP.

Permit review and field visits have indicated that recent approvals have allowed an increase in the scale of new structures and hardscaping (e.g., paving) along the streetscape, and a decrease in efforts to maintain the urban forest in the area by encouraging the planting of new native trees or by maintaining existing trees and native vegetation in these areas. Therefore, recommendations suggest: maintaining native tree canopy, planting new native trees to enhance the streetscape, and reducing the amount of hardscape adjacent to the street; maintaining a similar sense of scale and diversity of style as that found in the City of Carmel-by-the-Sea, and developing specific design criteria.

With regards to more general historic resource protection throughout the County, only the *North County* and *Big Sur Coast Land Use Plans* contain historic protection policies. North County policies apply only to the Moss Landing Community. The historic protection policies provided in these LUPs cover a range of historic preservation issues, but do not comprise a complete set of provisions necessary to ensure that community character is protected pursuant to Coastal Act policies. Therefore, recommendations suggest the County adopt preservation policies and design guidelines to define and protect historic resources.

Chapter 8 - Archaeological, Cultural & Paleontological Resources

(Most recommendations addressing this issue are found on: pp. 80 –82.)

At the time of Spanish contact Monterey County was occupied by three distinct aboriginal tribal groups which include the Esselen, Ohlone/Costanoans and Salinans. As a result, each of Monterey County's four coastal planning areas contains rich and diverse archaeological resources that remain as cultural evidence of these Native American groups.

The LCP's key archaeological policy requires that such resources be maintained and protected for their scientific and cultural heritage values. To accomplish this, the LCP contains additional policies that require early evaluation of sites during conceptual design phase, a determination as to whether or not a precious report has been conducted, and if no such a survey has been conducted, requires one be conducted, that includes recommendations for mitigation measures consistent with protection of the resource(s). The LCP further indicates that new land uses, both public and private, should be considered compatible with archaeological resource protection requirements only where they incorporate all site planning and design necessary to avoid or mitigate impacts to archaeological resources, and states that no development proposals in archaeologically sensitive areas shall be categorically exempt from environmental review. The LUPs, which are generally though not uniformly similar, also address distinct characteristics of their individual planning areas. While consultation with Native Americans is not explicit in current LCP policy language, LCP policies do contain reference to compliance with Native American Heritage Commission (NAHC) guidelines, which include directions for selecting on-site cultural resource monitors and for coordinating with the NAHC in the event burial remains are discovered. The Coastal Act policy 30244 is embodied in

County provisions requiring archaeology surveys and avoidance or mitigation of any adverse impacts. However, all LCP segments with the exception of Del Monte Forest area also allow waivers of the archaeological survey requirement when the development does not involve land clearing or land disturbance.

Since LCP certification, Monterey County has had a good record with regard to implementing its local coastal program in a manner consistent with the Coastal Act archaeology policy. The County has processed permits involving archaeological resources according to the LCP standards, has required archaeology reports, as mandated by the LCP for development in high archaeological sensitivity zones, and has made reasonable decisions for requiring or waiving archaeological surveys, and follow-up on-site monitoring. While such waivers seemed appropriate once more of the details were known, consistency evaluation of such determinations would be made easier if findings clearly stated when archaeological survey reports were waived and for what reason. Similarly, evaluation would be made easier if all permits for development in high sensitive areas had an archaeology finding, even if it only briefly stated that given the nature of the development, there was no likelihood of resource presence and hence no need permit conditions requiring surveys or mitigation measures.

In addition, since certification of the LCP, the Coastal Commission has focused increased attention on the protection of archaeological resources that include significant Native American sacred sites and the importance of consultation with local Native American representatives. Under current Coastal Act provisions, the Monterey County Local Coastal Program provides that all available measures be explored to avoid development on significant archaeological sites and requires that mitigation measures be developed in accordance with guidelines of the State Office of Historic Preservation and the Native American heritage Commission. However, the County's condition language as applied to several permits, as noted above, does not explicitly reference either required onsite monitoring or consultation with qualified Native American representatives regarding identification of sites or in review of the results of archaeological surveys. Thus, there is a need to update the LCP to incorporate Native American monitors in archaeological surveys and environmental assessments.

Recommendations are also made to avoid disturbing archaeological sites where possible, to limit access to archaeological sites, to prepare mitigation plans when impacts to impacted archaeological sites are unavoidable, to require archaeological reports in review of subdivision applications, and to require the County to adopt archaeological findings for all coastal permits issued in high archaeological sensitivity areas.

Chapter 9 - Energy and Industrial Development

North County is the only planning area that has energy and other coastal industrial uses. The major energy facilities are the Moss Landing Power Plant, owned and operated by Duke Energy of North America (DENA) and the adjacent electrical distribution complex, owned and operated by the Pacific Gas and Electric Company (PG&E). DENA purchased the power plant from PG&E in 2000. Just south of the power plant is the mostly abandoned National Refractories (formerly Kaiser) plant that has historically produced magnesia and refractory brick by precipitating minerals from seawater.

The LCP carries out the objectives of the Coastal Act with North County LUP policies that encourage energy and coastal industrial uses to locate and expand within existing sites. Location and expansion beyond an existing site are permitted only if alternative locations are infeasible or more environmentally damaging, to do otherwise would adversely affect the public welfare, and adverse impacts are mitigated to the maximum extent feasible. New industrial development is required to be located within or contiguous to existing developed areas able to accommodate it except that new hazardous industrial development is required to be located away from existing developed areas where feasible.

Since LCP certification, there has been little new energy development. The California Energy Commission granted approval for expansion of the Moss Landing Power Plant, which has resulted in the construction of two new power-generating units, improvements to existing power-generating units, and the removal of a number of towers and massive fuel tanks that were no longer needed. Monterey County also issued coastal permits at the Moss Landing Power Plant for installation of an air pollution control system, tank farm removal, and installation of an energy management center and oily water separator system in association with amendments to the Power Plant's master plan. While the National Refractories/Kaiser plant site remains covered with industrial facilities, they are no longer in much use, and the site is currently for sale. Interests regarding use of the site for a seawater desalination plant have been expressed and the potential for such use is currently being evaluated by interested parties (e.g., the Cal-Am Water Company).

The Periodic Review process revealed some specific concerns with provisions for energy and other industrial facilities. Recommendations reflect LCP revisions needed to update facility descriptions, ownership, and operations. LCP references to the PG&E power plant are outdated, so recommendations are made to reflect the change in ownership to Duke Energy North America (DENA). The policies for oil and gas leases are adequate, but the corresponding zoning is somewhat ambiguous; therefore recommendations are made to clarify provisions against such leases in Sanctuary waters. Recommendations are made to ensure all references to federal activity are included in the LCP and are consistent with current legal requirements. Finally, policies for large industrial facilities were found lacking only as to an overall development plan requirement. Recommendations are thus made to add such a policy, consistent with *County Code* provisions.

Chapter 10 - Implementation

The procedures for administering the LCP are a key aspect of implementing the plan. The County is focusing efforts on updating the General Plan and LCP, but does not anticipate preparing ordinance

revisions for another year. Anticipating these revisions, the Commission did not suggest detailed recommendations for procedural changes at this time but will continue to work with the County and the community to review and improve procedures to address some of the concerns identified, including possible specific revisions in the updated zoning code. Some of the issues raised may best be addressed through discussions on improved staff procedures rather than ordinance changes. The Implementation review does list preliminary issues derived from Issue Scoping. Specific focus is on two key concerns: Enforcement and Easements.

Regarding enforcement, the County is actively enforcing the LCP and has handled over 700 cases since certification. These have included cases of unpermitted grading, unpermitted placement of trailers and removal of major vegetation (i.e. trees, maritime chaparral, pickleweed, etc.) in or near wetlands and other environmentally sensitive habitat areas. To make enforcement efforts more effective in resolving resources impacts, the Periodic Review identifies the need to improve tracking of the cases, strengthening penalties, and improving interagency coordination.

Regarding easements, the County has effectively implemented LCP requirements to mitigate development impacts by requiring open space easements as conditions of authorizing coastal permits. Over 90 open space easements have been required in North County planning area and as many as 50 more in the rest of the County. These easements represent significant resource protection and mitigation. The resource values of this mitigation may be lost, however, if the easements are not documented, tracked, monitored and enforced. The Periodic Review outlines several specific components that would ensure development of an effective easement program.

The Periodic Review suggests other improvements needed in various administrative procedures, including procedures for: resolving questions related to jurisdiction, making sure exemptions and emergency do not impacts resources, improving review of permit amendments and extensions, clarifying the principle permitted use, improving application requirements and public notice, and reviewing LCP amendments and documents. Steps to improve intergovernmental coordination and information updating are also identified.

III. Periodic Review Preliminary Recommendations to Monterey County

The following are LCP policy revisions and implementation actions recommended to Monterey County, organized by Chapter of this Periodic Review. In recognition of the County's current updating of its entire LCP, the following suggested wording might be modified to fit within the new LCP's format, provided that the intent of the recommendations is captured.

Chapter 2 - Land Use and Public Works:

For Issues AG-1 through AG-2 - see Appendix A, pp. 122-124.

For Issues LU-1 through LU-7 - see Appendix A, pp. 4-19.

Issue LU-8: Protection of North County Water Supply and Agriculture

LU-8.1 Do not allow increased groundwater extraction: Revise North County LUP policy 2.5.3.A.2 and corresponding County Code provisions as follows:

The County's long-term policy shall be to limit ground water use to the safe-yield level prevent both the depletion of ground water supplies and to avoid potential impacts to riparian and wetland habitats that receive natural ground water discharge. The first phase of new development shall be limited to a level not exceeding 50% of the remaining buildout as specified in the LUP. This maximum may be further reduced by the County if such reductions appear necessary based on new information or if required in order to protect agricultural-water supplies. Additional development beyond the first phase shall be permitted In order to achieve this objective a project(s) must be implemented to assure that: (1) the amount of water extracted annually does not exceed the amount that recharges the aquifer; (2) the amount of water extracted is further reduced and/or ground water is injected from other sources such that the aquifer is brought back to its historic levels, and (3) the extent and location of water extraction does not result in further seawater intrusion or in significant adverse impacts on riparian, wetland or other environmentally sensitive habitat areas. (see also Recommendation LU-8.4 for new water supply projects and LU-9.6 for additional criteria for desalination projects). Until such projects are implemented, no new lots shall be created nor additional units beyond the first single-family dwelling (or equivalent) on an existing parcel be constructed that would use a groundwater supply. This policy shall in part be implemented by adding a B-8 zoning district overlay to all of North County and/or rezoning all of North County to a density of one dwelling unit per existing legal lot of record (and equivalent for non-residentially designated lands). only after safe-yields have been established or other water supplies are determined to be available by an approved LCP amendment. Any amendment request to remove this restriction or increase density shall be based upon definitive water studies, and shall include appropriate water management programs as well as consideration of the individual and cumulative impacts on other infrastructure and coastal resources.

In the interim only minimal development necessary to give people economic use of their land shall be allowed. Any approved development shall result in no net increase or reduction of water demand. Any water offset used to comply with this policy to allow non-agricultural development shall occur on non-agriculturally designated land (i.e., reduction of agricultural water use on agriculturally designated land is not permissible to allow residential development to occur).

LU-8.2 Limit agricultural fallowing: Add a policy to the LCP to guide any programs that might be developed to fallow agricultural land as follows: Any agricultural fallowing requirements or program should reduce cumulative groundwater consumption. A groundwater management program should be developed that includes multiple techniques, not only fallowing. Any fallowing component should not threaten prime agricultural land, but be targeted at lands less appropriate for farming, such as those on steep slopes or having poor soils.

LU-8.3 Develop programs to achieve no net increase in water use: Add an action to develop programs to facilitate no net increase in water use (e.g., retrofit opportunities, well retirement, irrigation application reductions), including a methodology for determining water off-set calculations

LU-8.4 Prepare design and mitigation standards for new water projects: Add a coastal zone wide policy to the LCP as follows: Water supply projects shall: (1) Avoid displacement of existing land uses, (e.g., bisecting existing developed land use with pipelines) and be developed in existing street right-of-ways, farm roads and along railroad rights-of-way, wherever possible; (2) Minimize disturbance of prime farmland and conserve topsoil; (3) not restrict the quantity of water dedicated to agricultural uses on prime farmland or convert significant acreage of prime farmland to nonagricultural uses unless such conversion is part of a wetland/riparian restoration project; (4) be designed and limited to assure that any water supplies made available as a direct or indirect result of the project will accommodate needs generated by development or uses consistent with the kinds, location and densities specified in the LCP and Coastal Act, including priority uses as required by PRC 30254. Techniques to achieve this objective include: not providing excess capacities in water lines; locating water lines to serve only the project; delineating a service area; using legal instruments such as deed restrictions, non access easements, zoning overlays, urban service area boundaries, and annexation prohibitions to prevent future inappropriate system expansions; not requiring financial contributions from landowners outside of the service area; setting charges proportional to use pursuant to LCP land use designations and densities; performing full additional reviews of any project revisions or expansions to ensure that the intent of this policy is still met; and having all relevant agencies (e.g., County, LAFCO, PUC, water purveyor) agree to such restrictions and accordingly include them in their permit conditions, contracts, ordinances, etc.

LU-8.5 Meter groundwater extractions: Add an action to meter groundwater extractions in unmonitored overdrafted groundwater basins.

LU-8.6 Do not allow private water supplies in urban service areas: Revise North County Land Use Plan and corresponding County Code provisions to state that private water supplies (e.g., individual wells) are prohibited to serve existing and new development within the urban service areas.

LU-8.7 Support coordinated water conservation and new water supply initiatives: Add an action to support and participate in initiatives to promote water conservation, identify possible water-off-sets, decide on a new water project, and coordinate water planning to the extent that resources allow.

Issue LU-9: Water Supply in the California-American Water Company Service Area

LU-9.1 Strengthen Permit Processing Requirements concerning Water Availability: Revise *County Code* Sections 18.46.040, 20.70.130 and other relevant sections to require proof of issuance of or intent to issue a MPWMD (or any successor agency) permit demonstrating availability of water in the Cal-AM service area for a complete coastal permit application.

For applications deemed complete no coastal development permit should be issued without a County determination that (1) no new water is required to serve the new development; or (2) there is unallocated water available in the County's MPWMD (or successor agency) allocation to support the new development. This determination should include an evaluation of the proposed development's water demand, based on MPWMD's, or its successor's, water unit value system.

Prior to the commencement of construction of new development, evidence of water service, in the form of a current water use permit from the MPWMD, or its successor, shall be provided to the Department of Planning and Building Inspection.

LU-9.2 Do not allow private water supplies in Cal-Am service area: Revise Carmel Area Land Use Plan and corresponding County Code provisions to state that private water supplies (e.g., individual wells) are prohibited to serve existing and new development within the Cal-Am service area.

LU-9.3 Update Del Monte Forest water allocation: Revise Del Monte Forest LUP Section "Water Allocation in Del Monte Forest," including Table 2, to reflect the revised land use designations in recommendation SH-29.2; the use of reclaimed water for golf course irrigation; and the current water supply conditions on the Peninsula.

LU-9.4 Add review criteria for any proposed desalination facilities: Add coastal zone wide policy standards to the LCP to guide review of any proposed desalination facility as follows: Desalination facilities must:

- A. Be public as warranted by application of Coastal Act policies;
- B. Avoid or fully mitigate any adverse environmental impacts to coastal resources;
- C. Be consistent with all LCP and Coastal Act policies, including those for concentrating development, supporting priority coastal uses, and protecting significant scenic and habitat resources;

- D. Be designed, sized, and located as part of a comprehensive regional water management program that includes conservation and recycling, and is based on adequate land use planning and adopted growth projections;
- E. Use technologies that are most energy-efficient. Estimates of the projected annual energy use and the environmental impacts that will result from this energy production, and evidence of compliance with air pollution control laws for emissions from the electricity generation should be submitted with permit applications;
- F. Use, where feasible, sub-surface feedwater intakes (e.g., beach wells) instead of open pipelines from the ocean, where they will not cause significant adverse impacts to either beach topography or potable groundwater supplies (see Recommendation LU-11.3);
- G. Use technologies and processes that eliminate or minimize the discharges of hazardous constituents into the ocean and ensure that the least environmentally damaging options for feedwater treatment and cleaning of plant components are selected. Opportunities for combining brine discharges with other discharges (e.g., from a sewage treatment facility or power plant) should be considered and the least environmentally damaging alternative pursued. Applicants should provide information necessary to determine the potential impacts to marine resources from the proposed intake and discharge. Obtaining this information may require new or updated engineering, modeling and biological studies, or in some cases may be obtained from pre-operational monitoring, monitoring results from other desalination facilities, and pilot studies conducted before building a full-scale facility; and
- H. Be designed and limited to assure that any water supplies made available as a direct or indirect result of the project will accommodate needs generated by development or uses consistent with the kinds, location and densities specified in the LCP and Coastal Act, including priority uses as required by PRC 30254.

LU-9.5 Protect the Carmel River and allocate water for priority uses: Add an action to support water projects and strategies that maximize protection of the Carmel River and other coastal resources and allocate water consistent with Coastal Act priorities to the extent that resources allow.

Issue LU-10: Big Sur Valley Water Supply

LU-10.1 Coordinate with U.S. Fish and Wildlife Service: Add to Big Sur Coast Land Use Plan policies 3.4.3.A.4; 3.4.3.B.1; 3.4.3.C.2; and 3.4.4.1 and corresponding County Code provisions (e.g., Section 20.145.050.B.3) coordination with National Marine Fisheries Service and U.S. Fish and Wildlife Service (as well as Department of Fish and Game) for steelhead trout and other listed species.

LU-10.2 Update Big Sur River Protected Waterway Plan: Add an action to update the Big Sur River Protected Waterway Management Plan to reflect current assessments of resource issues, including stream diversions, water supply and transport, water quality, instream flow requirements, recreation, etc. and update the Management Policies and Recommendations. Submit as an LCP amendment to the Coastal Commission.

LU-10.3 Undertake waterway monitoring programs: Initiate Community Water Resource Monitoring Programs for Sycamore Canyon Creek and Big Sur River watersheds pursuant to *Big Sur Coast LUP* policy 3.4.3.C.2. The County should collect the approximately \$12,600 due from permit conditions to help fund the programs; explore contracting with or otherwise coordinate with the Department of Fish and Game to use the funding to prepare an Instream Flow Incremental Methodology to protect sensitive species including steelhead, Coho salmon, red-legged frogs, pink salmon, and macroinvertebrates; and support formation of citizen watershed councils.

Issue LU-11: Moss Landing Community Plan

LU-11.1 Redesignate Elkhorn Slough Foundation parcel to Resource Conservation: Redesignate APN 133-221-007 from Recreation and Visitor Serving Commercial to Resource Conservation Wetlands and Coastal Strand or other appropriate designation and rezone accordingly.

LU-11.2 Update Moss Landing Community plan: Update the North County Land Use Plan Chapter 5 "Moss Landing Community Plan," based on an analysis of existing and potential Coastal Act priority uses. Amend the plan to ensure that priority uses, including an upland dredge rehandling and/or disposal site and dry storage, are accommodated in a manner that protects scenic, habitat, wetland, historic, and other coastal resources. Assure that: the redevelopment of the Harbor District's North Harbor parcels preserve Bay and Harbor views; the redevelopment of the former National Refractories accommodates necessary priority uses and redesign of the transportation system (including any road realignment, parking area, and rail line) that furthers the objective of maintaining Highway One as a two-lane road in the Moss Landing corridor (see Recommendation LU-14.1); and comprehensive shoreline management is completed (see Recommendation SH-31.2).

LU-11.3 Avoid or minimize damage to marine organisms from seawater pumps: Add a policy to the LCP as follows: Prior to approval of any new or expanded seawater pumping facilities, require the evaluation of alternatives, selection of the least environmentally damaging alternative, use of Best Available Technologies, and provision of maximum feasible mitigation measures to avoid and/or to minimize damage to marine organisms due to entrainment in accordance with State and Federal law (see also Recommendation LU-9.4 regarding pumping for desalination plants).

LU-11.4 Support comprehensive planning in Moss Landing: Add an action to support and participate in, to the extent that resources allow, initiatives to pursue multi-agency planning and regulatory streamlining for Moss Landing, evaluate responses to erosion, and manage dredge materials.

Issue LU-12: Carmel Area Uplands

LU-12.1 Update Carmel Area land use designations: Amend Carmel Area land use designations as follows along with corresponding zoning designations and policy text:

- A. For the Odello-West Parcel(s) Remove Special Treatment designation; redesignate to Agricultural Preservation; specify densities and standards for agricultural labor housing;
- B. For the Quail Meadows Parcel(s) Redesignate to Resource Conservation or Scenic and Natural Resource Recreation and amend LCP to memorialize rezoning to open space;

- C. For the Palo Corona Parcel(s) When land transfer is complete, redesignate to Scenic & Natural Resource Recreation;
- D. For the Point Lobos Ranch parcel(s) Redesignate in-holdings to visitor-serving or residential uses; redesignate remainder to Scenic & Natural Resource Recreation;
- E. For the Point Lobos Ridge parcel(s) Redesignate parcels purchased by Big Sur Land Trust to Resource Conservation or Scenic and Natural Resource Recreation, if transferred to a parks agency;
- F. For the former BSI parcels Delete special treatment and density bonus;
- G. For the Rancho San Carlos parcels Add Special Treatment overlay designation over all parcels of the Ranch (in the coastal zone) to facilitate an overall plan for these holdings; and
- H. For the Keig parcels (formerly Hall and Sawyer parcels) Retain Watershed & Scenic Conservation designation; rezone per permit condition; delete Special Treatment.
- LU-12.2 Allow transfer of density credits in Carmel Uplands: Amend the LCP to allow transfer of density credits for the remaining potential single-family homes in the Carmel Area uplands to more suitable locations, including outside of the Coastal Zone and revise *County Code* Section 20.64.190 to add in the Carmel Area (or add a similar section for the Carmel Area).
- LU-12.3 Add review of lot line adjustments to management plan requirement: Add a subsection to *County Code* Section 20.146.070.A.1 concerning overall development and management plans that states: For any other development [on parcels 50 acres or larger or designated Special Treatment], an evaluation is required to demonstrate that the development will not compromise implementation of all Plan policies applicable to the sites in question or that comprise the entire Special Treatment designation.
- LU-12.4 Prepare area plan for Carmel Uplands: Add an action to prepare a plan of where and how the Carmel Uplands should develop, as an amendment to the LCP. Existing and potential private residential and public recreational ownerships and land uses should be addressed; Consider parameters for individual site developments, priorities for acquisitions, and identification of candidate transfer and receiver sites; integrate habitat, recreational, and public access enhancements that might not otherwise be achievable through individual developments. (See also, Recommendations for Issue SR-9 and Recommendations PA-11.6 and PA-13.7.)
- LU-12.5 Review and support acquisition strategies: Add an action to coordinate with organizations, such as land trusts, that acquire fee title to or easements in land. The County should share its priorities (based on the LCP) with such organizations, and request that such organizations discuss their acquisition strategies with the County so that the County may offer advice on how to structure agreements consistent with LCP objectives. Emphasis should be placed on avoiding the creation of privately owned remainder parcels where development would conflict with LCP objectives. The County should support future acquisition proposals that help implement LCP objectives to the extent resources allow.

Issue LU-13: Big Sur Coast Highway Management Plan

LU-13.1. Address Coast Highway Management Plan in permit review: Add the following definitions and procedure to the LCP:

- A. <u>Big Sur Coast Highway (Coast Highway) definition:</u> State Highway Route 1 along the Big Sur Coast, from the Monterey-San Luis Obispo county line to the Carmel River, which is designated as a State Scenic Highway, and as an All-American Road under the National Scenic Byways Program.
- B. Coast Highway Management Plan (CHMP) definition: The Big Sur Coast Highway Management Plan (CHMP) provides strategies, actions and practices to guide the California Department of Transportation (Caltrans) and other partnership agencies in the protection and enhancement of the intrinsic scenic, natural, recreation, historic, archaeology and cultural values of the Big Sur coast byway corridor, while maintaining the transportation function of the highway. The CHMP consists of the Corridor Management Plan, and Guidelines for Corridor Aesthetics, Vegetation Management, and Landslide Management and Storm Damage Response. The CHMP is structured so that it may be amended from time to time, and guidelines on additional topics may be added in the future. However, any additional guidelines or amendments to the CHMP will not be in effect for purposes of the National Scenic Byway until accepted by the Federal Highway Administration (FHWA). While improved governmental coordination is a primary goal for the CHMP, it does not alter or change the authority, jurisdiction or responsibility of any governmental agency or organization. The certified Monterey County Local Coastal Program (along with the applicable public access and recreation policies in Chapter 3 of the California Coastal Act) shall provide the standard of review for coastal development permits. The CHMP, or components of it, will only become the standard of review when adopted into the LCP or separately approved as a public works plan by the Coastal Commission.
- C. Application requirement: Applicants for all highway-related development and all development projects adjacent to the highway right-of-way or otherwise located so as to have the potential to directly impact the intrinsic values of the Scenic Byway for that portion of State Highway Route 1 south of Rio Road shall be required to document that they have consulted the CHMP management strategies and guidelines in designing their project. Such documentation shall explain how the project will help to maintain or enhance the Scenic Byway consistent with the CHMP; or will have no effect on the Scenic Byway's intrinsic values; or, if the project deviates from the CHMP provisions, why such deviation is warranted.
- D. <u>Public works project review procedure</u>: The County may review and comment to the Coastal Commission on CHMP-derived public works plans and on public works projects that do not require County coastal permits pursuant to *California Code of Regulations* Section 13357.

LU-13.2. Add design standards for Highway 1 in Big Sur (Coast Highway): Add policies and corresponding implementing provisions to the LCP as follows:

- A. Avoid improvements that would detract from the rough-hewn, generally untamed character of Highway One south of the Carmel River. Examples of highway improvements that are not appropriate along the Coast Highway include: standard curb-gutter-sidewalk treatments, permanent stoplights, street lighting, and similar urban-style "street furnishings." Where highway projects are needed to correct public access or safety deficiencies, or to mitigate for geologic instability, the least visually intrusive feasible options shall have priority over those that impose a greater structural presence or degree of visible landform alteration. Where feasible, non-rigid measures that conform to the shape of the landform (e.g., wire mesh rock netting) will be preferred over alternatives that materially alter the scenic landscape. Where feasible, non-structural measures that will effectively address the need (e.g., scaling of loose rocks) will be preferred over solutions that rely on materials that appear manufactured.
- B. Turnouts, pullouts, vista points and rest areas: Unless there is a compelling public access or safety reason to do otherwise, existing unpaved pullouts shall be retained in usable condition for stopped motorists, and generally shall not be paved. Temporary uses, modifications or closures may be warranted in particular instances for maintenance, repair or construction activities, landslide disposal functions, or to protect adjacent sensitive resources. Select, strategically placed paved pullouts and turnouts may be provided where recommended by the California Highway Patrol for enforcement of the slow-moving traffic rules. Also, rest areas or new vista points may be provided on public lands, consistent with the Big Sur Coast Highway Management Plan recommendations and any applicable State Park General Plans, National Forest management plans or National Marine Sanctuary interpretive plans. The development of such facilities should occur only where the critical viewshed would not be degraded, and Caltrans, State Parks or the U.S. Forest Service will take responsibility for long-term management. In order to protect Big Sur's untamed, non-urban character, the aggregate total of all paved turnouts, improved vista points, paved rest areas, and paved pullouts together shall not exceed an average of one per two miles, each direction, south of the Carmel River.
- C. <u>Stream crossings—replacement of fills, culverts and bridges</u>: Where the highway crosses a stream or drainage course, replacement or modification of fill prisms, culverts and bridges shall be subject to the following design considerations:
 - 1. All reasonable measures shall be applied to avoid impairment of natural stream flow regimes, to avoid interference with any anadromous fish run, to retain indigenous riparian vegetation, to minimize erosion and sedimentation impacts, and to provide a safe off-highway stream crossing for pedestrians walking along the coast.
 - 2. Where an off-highway pedestrian stream crossing is not already provided or planned, and is not feasible to provide in conjunction with the project, a separate pedestrian walkway will be provided on the fill slope, highway shoulder or bridge structure.
 - 3. When culvert or bridge replacement becomes necessary, the site shall be considered for its potential value as a pedestrian (and where applicable, equestrian) under-crossing to facilitate, for example, safe public access from inland parking areas to shoreline access points or scenic overlooks, or to accommodate the continuity of an off-highway

alignment for the California Coastal Trail. Similarly, within grazed ranch lands, the need and potential for cattle undercrossings shall also be considered. Where existing or potential under-crossing need is identified, the project shall, if feasible, be designed to accommodate such under-crossing(s).

- 4. Culverts shall be designed to accommodate the largest expected stream flow (based on best engineering practices and best estimates of 100 year event probability).
- 5. Instream work shall be strictly regulated, in concert with the National Marine Fisheries Service and the California Department of Fish and Game, to avoid adverse impacts to steelhead. Culverts and other instream structures shall be designed to allow any steelhead runs that are present in the stream to continue unimpaired.
- 6. Culvert inlets shall be designed to minimize risk of obstruction by soil flows and organic debris, at locations where there is a significant risk from these causes.
- 7. Culvert outlets shall be at natural grade of the stream course where feasible; and, where needed to prevent erosion impacts, shall be equipped with energy dissipaters that will be concealed from public view or blend with natural background rocks.
- 8. A list of candidate stream crossings, where hydraulic, wildlife and public access needs could better be served by a bridge than by a culvert, shall be developed and maintained. When it is necessary to replace an existing stream crossing due to the catastrophic loss of an in-stream fill, the replacement crossing should if feasible be accomplished instead by bridge. Where this is demonstrated to be unreasonable or infeasible, or would detract from the scenic qualities of the highway corridor, a specific finding shall be made to this effect. Fills that have a history of loss ("blow-outs"), or are potentially especially susceptible to such loss in the future, should be replaced by bridges before the loss occurs (as funding becomes available).
- D. Landslide management--handling and disposal of excess material: The preferred strategy for responding to closures due to landslides will be that which reopens the highway to public use, within a reasonable time, using feasible measures, and with the least long range environmental impacts on Big Sur's coastal resources. The goal is to maintain natural inputs to the sediment transport system in a manner that resembles pre-highway conditions. Therefore, rock, earth and natural organic debris from landslides shall, where feasible, be retained in-system. Generally, in-system for this purpose refers to the watershed where the landslide sediments originated, or the adjacent shoreline, or (as a second priority) elsewhere south of the Carmel River watershed and seaward of the Coast Ridge watershed divide.

The appropriate combination of measures will vary with each landslide location and availability of resources. Best practices for material handling, as detailed in the *Big Sur Coast Highway Management Plan*, shall be employed. These best practices include overall reduction, recycling and beneficial re-use of material. The hierarchy of strategies, which shall be employed individually or in combination, is as follows:

- 1. Reduce overall quantities by selecting maintenance and repair techniques and practices that reduce the overall footprint of disturbance and in the case of repairs are the least disruptive beyond the event that destabilized the highway.
- 2. Reuse material that is viable for other highway maintenance or reconstruction projects. Rock and soil suitable for other highway repairs may be re-used in the highway corridor or elsewhere, as needed. Similarly, topsoil and organic matter should be segregated where feasible and made available for revegetation efforts. However, care must also be taken to avoid the spread of exotic plant species within the Big Sur Coast area.
- 3. Recycle material for non-highway uses, either along the corridor or elsewhere. This involves transferring material that has commercial value for use in other approved public or private development projects or activities.
- 4. Replenish sediment supplies to natural systems by removing or bypassing manmade barriers (e.g., the highway) and practices that may inhibit natural flow of sediment. Sediments, as used here, include the full range of grain sizes, with particular reference to materials appropriate for beach replenishment, and cobbles and boulders that protect the toe of the bluff from wave erosion.
- 5. Dispose of any remaining excess material that cannot be put to any other beneficial use. However, this shall be considered the least desirable practice, because retention of natural materials within the Big Sur Coast ecologic system is an important goal, because suitable receiver locations within the corridor are extremely limited, and because truck transport produces its own set of impacts.
- E. <u>Sidecasting</u>: The placement of fill, landslide debris or other sediments over the downhill side of the highway constitutes sidecasting. Sidecasting, as a technique of highway construction, repair or maintenance, is prohibited if: the sidecasted materials would comprise fill into the ocean or freshwater stream or wetland; or, would decrease the usable area of any beach; or, would significantly disrupt any marine mammal haul-out area, seabird nesting habitat, tidepool habitats, or any vegetated bluff face that comprises an environmentally sensitive habitat area. Exceptions to this prohibition may be allowed in a particular case, provided the following findings can be made:
 - 1. The project is otherwise consistent with the applicable policies of the California Coastal Act and the certified Monterey County Local Coastal Program; and,
 - 2. There is no feasible less environmentally damaging alternative, that can be employed consistent with the limitations on construction of shoreline structures and other applicable policies of the California Coastal Act and the certified Monterey County Local Coastal Program; and,
 - 3. Feasible mitigation measures have been provided to minimize adverse environmental effects; and,

- 4. In any instance where the sidecasting would constitute fill into a wetland or open coastal waters, such fill is limited to that which is restoration or is incidental to public service purposes (including State Highway maintenance or repair), or other allowable purposes identified in Coastal Act Section 30233; and,
- 5. Any disruptions of environmentally sensitive habitat areas are fully mitigated, and over the long term will not be significant; and,
- 6. The proposed sidecasting is part of a systematic, long-range planned beach replenishment or an approved landslide materials disposal program; or,
- 7. The withholding of sidecast sediments would constitute an impairment of natural inflows to a coastal stream, beach or the marine environment, (projects meeting this test must involve sediments that are natural materials and the sidecasting methods and timing must mimic the normal, natural temporal flux); or,
- 8. The proposed sidecasting is needed to prevent failure of the supporting slope for the highway, in locations where the existing slope will collapse if not buttressed or reconstructed in a timely manner; or,
- 9. The proposed sidecasting is needed to replenish the natural rock rubble at the toe of the coastal bluff, if such replenishment would preclude the need for rock armor (rip-rap), gabions, seawalls, crib walls or similar shoreline structures that, in a particular location, would otherwise be necessary to maintain the stability of the Big Sur Coast Highway.
- F. Bridge rails, guard rails, and similar barriers: To the maximum extent feasible, consistent with acceptable safety standards, bridge and viaduct railing, guard rails and other permanent structural barriers with the potential to block public views shall be designed to allow public enjoyment of scenic views from the highway.
- LU-13.3. Update policy for limiting new road access to Highway 1 in Big Sur: Revise Big Sur Coast Land Use Plan policy 4.1.3.A.4 to add "protecting highway capacity and aesthetic values" as a reason for limiting new road access (including private driveways) onto Highway One.
- LU-13.4. Delete outdated Hurricane Point policy: Delete outdated Big Sur Coast Land Use Plan policy 4.1.3.A.6 regarding realigning Highway One at Hurricane Point.
- LU-13.5. Address domestic employee trip generation: Add the following category to *Big Sur Coast Land Use Plan* policy 4.1.3.C.2 and corresponding *County Code* Section 20.145.130.A.1 lists of projects that require a traffic analysis: Residential developments containing over 2,400 square feet of habitable floor space, in aggregate.
- LU-13.6. Provide public access within the Highway 1 right-of-way: Add a policy to the LCP to ensure that highway corridor projects help implement the Big Sur Coast Trail (as described in Recommendation PA-11.1) as follows:
 - A. <u>Big Sur Coast Trail.</u> Segments of the Big Sur Coast Trail within the highway corridor (and other roadside paths) shall be considered essential highway facilities for non-motorized

travel; and, where warranted by documented need or trail planning, shall be provided in new highway projects where feasible, because of their potential to better link schools, commercial services, campgrounds, resorts, and trailhead parking. The range of appropriate improvements includes, in addition to the trail proper, low-profile interpretive and informational signs and displays, wildlife observation blinds, foot bridges, stiles, wooden benches, picnic tables, trash receptacles, handrails (in high use areas), and (well-screened) restrooms, as well as gates and fencing to protect agriculture, sensitive habitats, and private property. In providing continuity between public parks and National Forest lands, it is recognized that the Highway 1 right-of-way will often provide the only reasonable way to avoid physical constraints, sensitive habitat areas or private property. And, because of constraints within the highway corridor, the alignment will in places need to weave from one side of Highway 1 to the other.

- B. Highway 1 projects: required public access determination. When a bridge or fill prism is replaced, or a large dimension (36" diameter or greater) culvert, viaduct, crib wall, retaining wall or similar structure is installed within the Highway 1 right of way, or the highway is realigned or widened at a particular location, a pedestrian walkway shall be incorporated in the project design--unless it is determined that a suitable off-highway route is, or soon will be, available. Any coastal development permit, or public works plan project notice, for such highway project shall include a Finding to this effect. The pedestrian walkway, if needed, shall be designed consistent with the standards for hiking trails or other roadside paths, below.
- C. Standards for hiking trails located in State Highway right of way. The preferred alignment for the Big Sur Coast Trail portion of the California Coastal Trail (CCT), and other lateral public paths, is within sight and sound of the sea, but away from the intrusions of highway traffic. When such lateral access paths must be located in close proximity to the highway, they shall be aligned and designed to provide maximum feasible vertical, horizontal, earthen berm and/or vegetative separation from motor traffic. To the maximum extent feasible, effective separation from the sight, sounds, and smell of motor vehicle traffic shall be provided through appropriate design and alignment.

Appropriate techniques for providing vertical separation include use of stepped fill slopes below and seaward of the roadway (that can be used as trailbeds); using existing bridges to pass the trail safely under the highway; converting existing box culverts and cattle undercrossings on public lands to dual use as pedestrian undercrossings; and installation of new pedestrian undercrossings to safely connect public lands on the inland side of the highway to public access on the seaward side. Where there is not sufficient room within the right of way, lateral separation should be pursued on adjacent public or institutional lands through cooperative agreements with the respective landowner or manager.

Where the trail must necessarily be close to the roadway, vegetative screening, boulder barriers, berming, guardrail, or other design measures should be employed to achieve the desired level of safety and separation, as feasible—provided, scenic views from the roadway are not blocked. If such walkway is located on a bridge or viaduct structure, it should be separated from traffic by a vertical curb, barrier, or handrail. If located on a fill slope, the

benched surface for the trail should be located at least 6 feet lower than the edge of the roadway, where feasible. And, where the trail or interim trail alignment must necessarily be located on the shoulder of the highway with no barrier or lateral separation, a cleared surface width of at least 2 feet beyond the paved shoulder (on the seaward or downslope side) should be provided for pedestrian use. Trails should not be paved, except when on a bridge or similar structure.

- D. Standards for other roadside paths located within State Highway right of way. Roadside paths serve the needs of workers and students commuting to work or educational institutions, as well as residents and recreational visitors seeking non-motorized transportation alternatives. Along certain portions of the Big Sur Coast Highway, the need for supplemental roadside paths is evident. These locations include, but are not limited to: Gorda; Lucia; Esalen Institute main entrance to South Coast Center; Big Sur Valley (Castro Canyon to Andrew Molera State Park); Garrapata State Park to Malpaso Beach; Yankee Point Drive to Spindrift Road (south entrance); Spindrift Road (north entrance) through Carmel Highlands to Bay School. Such paths will generally be located on, or close to the highway shoulder. Otherwise, the standards for such paths will be the same as for recreational hiking trails.
- LU-13.7 Require contributions to Highway 1 improvements in Big Sur: Apply Carmel Area Land Use Plan Policy 3.1.3.9 which calls for new traffic-generating projects to pay their "fair-share" towards Highway 1 improvements to Big Sur Coast segment as well.
- **LU-13.8 Regulate parking prohibitions:** Add to the *County Code* Section 20.06.310.5 definition of "Development:" the following: "...including measures that preclude or restrict public parking."
- LU-13.9 Allow for incidental work in riparian and wetland areas: Add a provision to the LCP as follows: notwithstanding other policies, installation of minor culvert extensions and/or additional areas of fill for the purpose of maintaining Highway One may be permitted even if they cause disturbances within the stream and/or streamside vegetation (riparian habitat), only if the following circumstances apply:
 - A. The improvement is necessary to protect human life or property, or to protect or restore wetland or other natural habitat values, or to maintain basic public access along the Big Sur Coast;
 - B. There is no feasible less environmentally damaging alternative, including the "no project alternative," consistent with the transportation function of Highway 1;
 - C. The improvement will not result in an increase in traffic capacity of the road;
 - D. No significant disruption of habitat values will result, considering the local habitat system as a whole;
 - E. No net loss of viable wetland or riparian habitat will result in the local habitat system (i.e., the coastal streams that cross the Big Sur Coast Highway corridor);

- F. No net loss of any other environmentally sensitive habitat area will result in the local habitat system;
- G. The project will maintain or enhance the functional capacity of the wetland or estuary; and
- H. Feasible mitigation measures have been incorporated to minimize other unavoidable adverse environmental effects.

Improvements that cannot meet this or other LCP resource protection policies will require LCP amendments.

LU-13.10 Coordinate with Caltrans and federal agencies: Add an action to participate, to the extent resources allow, in planning initiatives to complete the CHMP and related, follow-up products, the Los Padres National Forest Management Plan, and MBNMS's Proposed Action Plan and to audit and reduce signs along Highway One. After completion of the CHMP and subsequent follow-up products, review their provisions for possible incorporation into the LCP.

Issue LU-14: Highway One and the Moss Landing Corridor

LU-14.1 Improve Highway 1 while maintaining two-lane configuration: Delete North County Land Use Plan policy 5.2.2.A and revise policy 3.1.2.1 and corresponding text and County Code provisions as follows: Highway One between Castroville and Salinas Road intersections shall remain a two-lane scenic road. The addition of through travel lanes, beyond the existing single lane in each direction, is prohibited. Necessary safety improvements that do not add travel lanes may be permitted, provided that the overall rural and scenic character of the roadway is not substantially altered. Safety improvements may include: alignment of Dolan Road with the Moss Landing Road intersection with some possible grade separation; improvement of the Springfield Road intersection with some possible grade separation; widening the existing motor vehicle travel lanes to a full 12 feet; paving shoulders up to 8 feet in each direction; adding or improving turnouts, paved pullouts, vista points, rest stops, trailhead parking areas, bus stops, shoulder tapers at intersecting roads, left turn safety pockets, merge lanes, access control features (i.e., frontage roads, median barriers, rightof-way fencing), and park-and-ride facilities. Also permitted are projects that maintain the existing scenic and rural character of the area and restore beneficial tidal circulation to the maximum extent feasible with a net restoration of productive wetlands in the Elkhorn Slough system, including highway realignment to avoid wetland encroachments (e.g., at Struve Pond); replacing long sections of wetland fill with causeways (e.g., at Bennett Slough and Moro Cojo Slough); and/or installing a new bridge span across Elkhorn Slough to provide the opportunity to reduce tidal flux to lessdamaging pre-1946 levels.

All development must occur within the current Highway One right-of-way or elsewhere without disruption of adjacent agricultural lands. Notwithstanding North County Land Use Plan policy 2.3.2.1 and corresponding provisions, wetland fill to accomplish incidental safety improvements or restoration projects that do no increase the overall capacity of this highway segment, is permitted provided there is no feasible less environmentally damaging alternative and feasible mitigation measures have been incorporated to minimize adverse environmental effects. Required compensatory mitigation (see recommendations for Issues SH-6: Mitigation for Habitat Loss) shall

favor restoration of wetland areas filled from past construction on Highway One in the vicinity of the proposed work. Restoration plans shall address complete restoration of wetland habitats affected and include monitoring, performance criteria, and contingency remediation measures to assure the success of the hydrologic and revegetation mitigations. Pursuant to policy 4.3.5.9, all other resource protection policies also must be fully followed.

Filing Requirement for Subsequent LCP Amendment. Requests to amend the LCP to allow any highway project that does not meet these criteria shall not be filed absent supporting documentation that demonstrates (1) a comprehensive regional planning process has been conducted (based on thorough and up-to-date origin and destination studies for the entire area) and has identified all feasible alternatives to the proposed project; (2) the project is necessary for addressing regional transportation needs; (3) all other feasible alternatives for meeting these regional transportation needs are exhausted, including: regional demand reduction (through measures such as reduced allowable zoning densities and encouragement of telecommuting); increased use of existing passenger and freight rail lines; improved transit service; more car-pool facilities; permanent signage and/or changeable message signs to encourage Highways 1 to 101 cross-over traffic to use less congested arterial roads east of Elkhorn Slough; identification of an east-of-Elkhorn bypass route to relieve the Santa Cruz-Salinas component of traffic demand; linkage of existing County roads west of Highway 1 to provide an alternative route for farm equipment movements; identification of a west-of-Highway 1 scenic byway linking existing County roads, to provide a bypass alternative for recreational traffic and improved access to Zmudowski State Beach; and encouragement of nonmotorized transportation, especially through linking existing bikeways to complete the Monterey Bay Sanctuary Scenic Trail around the perimeter of the bay; (4) policies are incorporated to ensure that impacts to agricultural lands, environmentally sensitive habitat areas, including wetlands, from any additional projects allowed by the LCP amendment will be avoided, minimized and/or mitigated to the maximum extent feasible; and (5) an analysis of impacts to Agricultural lands, if the viability of existing agricultural uses is an issue, following the specific requirements of Coastal Act Section 30241.5.²

² Coastal Act Section 30241.5 Agricultural land; determination of viability of uses; economic feasibility evaluation:

⁽a) If the viability of existing agricultural uses is an issue pursuant to subdivision (b) of Section 30241 as to any local coastal program or amendment to any certified local coastal program submitted for review and approval under this division, the determination of "viability" shall include, but not be limited to, consideration of an economic feasibility evaluation containing at least both of the following elements:

⁽¹⁾ An analysis of the gross revenue from the agricultural products grown in the area for the five years immediately preceding the date of the filing of a proposed local coastal program or an amendment to any local coastal program.

⁽²⁾ An analysis of the operational expenses, excluding the cost of land, associated with the production of the agricultural products grown in the area for the five years immediately preceding the date of the filing of a proposed local coastal program or an amendment to any local coastal program.

For purposes of this subdivision, "area" means a geographic area of sufficient size to provide an accurate evaluation of the economic feasibility of agricultural uses for those lands included in the local coastal program or in the proposed amendment to a certified local coastal program.

⁽b) The economic feasibility evaluation required by subdivision (a) shall be submitted to the commission, by the local government, as part of its submittal of a local coastal program or an amendment to any local coastal program. If the local government determines that it does not have the staff with the necessary expertise to conduct the economic feasibility evaluation, the evaluation may be conducted under agreement with the local government by a consultant selected jointly by local government and the Executive Director of the commission.

LU-14.2 Upgrade and design Salinas Road interchange to address safety and protect coastal resources: Add a policy to the LCP as follows: To address ongoing safety and congestion problems at Salinas Road and Highway 1, the intersection should be upgraded by eliminating eastbound traffic queuing and left turns across the opposing lane of Highway 1. Project design should: minimizing visual impacts by keeping any grade separation structure at the lowest elevation feasible and not projecting above the approximate original natural surface of the surrounding landscape; (2) maintain Highway 1 as a two lane road south of the new grade separation structure; (3) encourage smooth traffic flow in the directions of greatest demand (i.e., southbound and northbound on Highway 1, eastbound onto Salinas Road from Highway 1, and northbound from Salinas Road to Highway 1); (4) accommodate bicycle, pedestrian and park-and-ride facilities as appropriate; (5) Protect wetlands to the maximum extent feasible and allow relocation of existing man-made features, such as adjacent settling ponds, to accommodate traffic lane connection and avoid unnecessary conversion of farm lands so long as the relocated features have the same or better wetland or riparian characteristics and functions within the same hydrologic system; (6) protect agricultural lands by having the minimum feasible footprint on cultivated agricultural lands, and fully mitigating for any loss of agricultural land; and (7) not induce growth or be larger than is necessary to accommodate the actual projected demand that can occur consistent with this Plan.

LU-14.3 Design Castroville interchange to address traffic safety and congestion: Add a policy to the LCP as follows: Upgrade the Highway 156/Highway One and/or the Highway One/Molera Road intersections to provide a southbound off-ramp to Highway 156 northbound traffic prior to other Highway 183 congestion reduction projects. Highway 1 shall not be widened from two to four lanes north of the Highway 156 interchange. Intersection design(s) should be at the lowest elevation feasible; have the minimum feasible footprint on cultivated agricultural lands, and mitigate for the loss of agricultural land; incorporate bicycle, pedestrian and park-and-ride components; and not be growth inducing, i.e., no larger than is necessary to accommodate the actual projected demand that can occur consistent with this Plan.

LU-14.4 Ensure Highway 156 expansion is environmentally sound: Add the following to North County Land Use Plan policy 3.1.2.2 supporting expansion of Highway 156 to four lanes: "consistent with the resource protection policies of this plan. Such consistency shall include ensuring the project is aligned and designed so that: there is a reduction, or no net increase, in the amount of wetland fill as a result of the project; unavoidable erosion and siltation impacts are minimized; productive agricultural lands are avoided to the greatest extent feasible; and any reductions in agricultural lands, or negative impacts to agricultural operations on adjacent lands, are fully mitigated. Highway signage north of Marina shall encourage through northbound traffic to use Highway 101 via Highway 156 to reach northerly and easterly destinations."

LU-14.5 Allow rail improvements with mitigations: Add a policy to the LCP governing rail improvements that: a) requires retention of branch lines that serve Moss Landing (along Dolan Road), and from Castroville to the Monterey Peninsula along with their necessary supporting facilities and b) allows for all necessary improvements that will insure rail safety through the wetlands, including replacement of outmoded bridges; contingency plans for spills; restoration of wetland circulation by replacement of fills with causeways; and right-of-way and station enhancements needed for restored rail service to the Monterey Peninsula area. However, rail stations

must comply with all Plan siting criteria and not be sited on agricultural land or sensitive habitats. New and replacement bridge and causeway structures crossing the Elkhorn Slough wetlands should be designed to incorporate pedestrian access, where consistent with protection of the NERR. Elsewhere, public access should be sought parallel to the rail right of way, and improvements such as fencing and warning signals installed where needed to protect public safety.

Notwithstanding North County Land Use Plan policy 2.3.2.1 and corresponding provisions, wetland fill to accomplish these incidental safety improvements along the existing railroad alignments within the Elkhorn-Moro Cojo Slough system, and along the Castroville-Monterey branch line, is permitted provided all of the following circumstances apply, as applicable: the improvement is necessary to protect human life or property, or to protect or restore wetland or other natural habitat values; there is no feasible less environmentally damaging alternative to achieve restored or continued rail service; no significant disruption of habitat values will result, considering the local habitat system as a whole; no net loss of viable wetland or other environmentally sensitive habitat area will result in the local habitat system; the project will maintain or enhance the functional capacity of the wetland or estuary; feasible mitigation measures have been provided to minimize unavoidable adverse environmental effects; and, considering other alternatives including the "no project alternative," the project on balance is the most protective of significant coastal resources. Improvements that cannot meet this or other LCP resource protection policies will require LCP amendments.

LU-14.6 Limit industrial traffic generation: Amend North County Land Use Plan policy 4.3.6.F.3 to allow new agricultural facilities of an industrial nature in the Heavy Industry land use designation. Uses that can feasibly utilize rail transport and would otherwise generate substantial impacts on Highway One traffic should have priority for sites that are served by rail (i.e., the former National Refractories site and other locations along Dolan Road); All feasible traffic generation reduction measures shall be required of any new or expanded facility that would generate significant freight and employee traffic on the segment of Highway 1 between Castroville and Salinas Road. No expansions of agricultural facilities should be allowed if they would generate new traffic that would necessitate road improvements that involve wetland fill.

LU-14.7 Support regional transportation planning: Add an action to support and participate in initiatives for regional transportation planning, improved rail service, expanded transit service, demand reduction, and providing signing and other travel instructions that follow LCP objectives to the extent that resources allow.

Issue LU-15: Fort Ord

LU-15.1 Add Fort Ord to local coastal program: Add an action to incorporate into the LCP provisions to govern coastal Fort Ord, in anticipation of the federal government relinquishing ownership of this land. Review the applicability of the North County Land Use Plan provisions and corresponding County Code sections to Fort Ord; identify issues and policies (using this Periodic Review as a guide) that may need revision. Submit an LCP amendment, including land use and zoning designations and a public access component, to the Coastal Commission for certification.

LU-15.2 Coordinate Fort Ord planning: Add an action to coordinate with member agencies of the Fort Ord Reuse Authority and other stakeholders in preparing policies and zoning regulations that will apply to the former Fort Ord land within the coastal zone.

Issue LU-16: Armstrong Ranch

LU-16.1 Designate Armstrong Ranch Agricultural and/or Resource Conservation: Redesignate portion of the Armstrong Ranch within the coastal zone (APNs 203-011-003 and 203-011-021), from "Light Industrial" to "Agricultural Conservation" and/or "Resource Conservation-- Wetlands and Coastal Strand," and revise zoning designations accordingly; and delete the Special Treatment overlays.

Chapter 3 - Environmentally Sensitive Habitat Areas

For Issues SH-1 through SH-27 - see Appendix A, pp. 21-94.

Issue SH-28: Protecting Central Maritime Chaparral Habitat

SH-28.1. Protect all central maritime chaparral habitat: Delete North County Land Use Plan Policy 2.3.3.A.2 which allows conversion of maritime chaparral for residential uses on slopes less than 25% and which discourages, but allows, conversion of maritime chaparral to agricultural uses.

SH-28.2 Protect Manzanita Park's maritime chaparral: Redesignate Manzanita Park, outside of its developed enclave, to Resource Conservation or Scenic and Natural Resource Recreation.

SH-28.3 Prohibit subdivisions that further fragment central maritime chaparral habitat: Add to North County LUP policy 2.3.2.4 and corresponding County Code sections the following: no subdivision of land that will result in an additional potential building within the historic extent of maritime chaparral habitat shall occur unless consistent with a Central Maritime Chaparral Management Plan and Conservation Strategy [prepared pursuant to Periodic Review recommendation SH-28.5] (and other provisions such as Land Use Plan map densities and water supply policies).

SH-28.4 Protect Maritime Chaparral Habitat as ESHA and Mitigate for Unavoidable Impacts. Revise the LCP to strengthen protection of maritime chaparral and other environmentally sensitive habitat areas (ESHAs) and to ensure adequate mitigation of impacts. Add provisions to the LCP to address the following:

A. ESHA Identification.

The extent of maritime chaparral habitat or other environmentally sensitive habitat area shall be determined by the physical extent of habitat meeting the definition of environmentally sensitive habitat area on a project site based on site specific biological study and independent evidence.

Update requirements for the biological study to require that the following be considered in determining whether an area qualifies as ESHA:

- 1. Whether the parcel is in an area that historically contained environmentally sensitive habitat area; Add to *County Code* Sections 20.144.040.A.4.c and 20.145.040.A.4c, "identify the type(s) of plant and animal habitats found on the site <u>currently or historically</u> (and/or on adjacent properties..." and revise Attachments 2 of *County Code* Chapters 20.146 and 20.147 similarly;
- 2. Whether the soil type, climate, nearby vegetation, or other factors support continuation or regeneration of the environmentally sensitive habitat area on the site;
- 3. Whether indicator plants remain throughout the parcel or were on the parcel in the last five years and were not permitted to be removed;
- 4. Whether indicator plants are present in a number and pattern so that any development would result in the removal (or would have resulted in the removal) of at least one indicator plant; and
- 5. Factors such as the size of the area, adjacency to unfragmented habitat, health of the vegetation, presence of ecological functions, and other relevant biological considerations.

As part of carrying out the Recommendation in Issue SH-1: ESHA Identification, SH-6 concerning mitigation ratios, and SH-15: Public Agency Coordination, prepare a guidance document to assist in identification and protection of the Central maritime chaparral habitat, in accordance with the above criteria.

B. Development Standards.

Development on parcels located within current or historic extent of maritime chaparral (and other environmentally sensitive habitat areas) shall be required to avoid and protect identified environmentally sensitive habitat area, minimize significant disruption of habitat values, mitigate impacts, and provide maximum restoration, as determined by site-specific biological review.

Non resource-dependent development in ESHA is prohibited unless otherwise allowed pursuant to 1(b), below, or a comprehensive habitat management plan incorporated into the LCP, pursuant to Recommendation SH-28.5 and prepared according to these criteria for the following three general development scenarios:

- 1. Existing vacant parcels that are all or substantially ESHA or ESHA buffer (delineate ESHA on property based on site-specific biological review)
 - a. Prohibit non-resource dependent development. Pursue acquisition or retirement of development rights through purchase of an open space easement or transferring development rights to another parcel.
 - b. If necessary to avoid an unconstitutional taking of private property, allow minimum non-resource dependent development disturbance to provide an economic use. Development shall be consistent with the procedure and standards of Code Section 20.02.060.B and all other applicable policies. The maximum allowable building site

disturbance envelope (including areas for utilities and vegetation clearance for fire prevention requirements) shall be the minimum necessary to provide an economically viable use of the property.

- c. Site and design development to maximize habitat values on site and in system, including minimizing site fragmentation, maximizing connectivity with adjacent habitat, clustering with existing development, etc. Minimize the possibility of direct or indirect intrusion into any preserved open space or onto adjacent properties (e.g., fence off the habitat, if appropriate and site any expansion where it will be furthest from indicator vegetation)
- d. Minimize and mitigate construction impacts/disturbance. Require on-site restoration and conservation where appropriate (see below).
- e. Mitigate offsite for disturbance envelope at a minimum of 3:1 compensation. Required habitat restoration and enhancement shall be monitored for no less than 5 years following completion. Specific mitigation objectives and performance standards shall be designed to measure the success of the restoration and/or enhancement. Midcourse corrections shall be implemented if necessary. Monitoring reports shall be submitted to the County annually and at the conclusion of the 5-year monitoring period that documents the success or failure of the mitigation. If performance standards are not met by the end of the 5 years, the monitoring period shall be extended until the standards are met. The restoration will be considered successful after the success criteria have been met for a period of at least 2 years without any maintenance or remediation activities other than exotic species control.
- f. Restore and protect remainder of site with conservation restriction. All remaining areas of maritime chaparral ESHA outside the building/site disturbance envelop, including any mitigation areas, shall be protected in open space through an endowed easement to a third party that allows management of the habitat within the easement area. Landscaping requirements shall prohibit planting of invasive species.
- g. Manage/maintain protected habitat on site in perpetuity (3rd party).
- 2. Existing developed sites where the remainder of site is all or substantially ESHA or ESHA buffer (delineate ESHA on property based on site-specific biological review)
 - a. Prohibit new development in ESHA:
 - Prohibit additions or expansions of existing development into ESHA. Define the current non-ESHA disturbance envelope, where habitat is no longer present due to building or other structural improvements on the grounds (e.g., paved driveway).
 - (2) Prohibit other new development (grading, landscaping, major vegetation removal, accessory and second units, etc.) outside existing disturbance envelope, unless necessary for fire safety, pursuant to Recommendation CH-9.3.

- (3) Limit replacement structures to existing non-ESHA areas on site. Uses or structures that do not conform to ESHA policies should not be enlarged or expanded into additional locations. When demolition and reconstruction results in significant replacement of a nonconforming structure should not be permitted unless brought into conformance with the ESHA policies, including and building/site disturbance standards.
- b. Site and design development to maximize protection of ESHA. Prohibit new development within 100 feet of ESHA (see 1a-1g and 2a above).
- c. Mitigate impacts of development on adjacent ESHA (see 1a-1g and 2a above).
- d. Restore and Protect ESHA on-site (see 1a-1g and 2a above).
- e. Manage and maintain ESHA on-site (see 1a-1g and 2a above).
- 3. Vacant or developed parcels that are partially or devoid of ESHA, or so degraded as to not constitute ESHA, located within the larger ESHA habitat area, and that have significant ESHA restoration potential.
 - a. Prohibit new development in ESHA. Buffer existing ESHA a minimum of 100 feet.
 - b. Designate maximum site disturbance envelope. Limit to no more than the average size of disturbance areas in the vicinity or to no more than appropriate size as determined through a comprehensive habitat management plan incorporated into the LCP (note this size may be determined by factors other than habitat, such as neighborhood character and visual resource protection).
 - c. Protect remaining restoration potential area as required. Require that an area within the remaining area be restored with plant community species equivalent to the disturbed area (i.e., 1 to 1 mitigation), unless biological evaluation concludes that the habitat will and should regenerate on its own.
 - d. As a condition of new development, require an offer to dedicate an easement for a period of 21 years over the remainder of the parcel that allows restoration and management of the habitat within the easement area, contingent on a restoration program being established within the area within the time period.

SH-28.5 Prepare comprehensive chaparral management plan: Include in *North County LUP* action 2.3.4.1 preparation of a comprehensive Central Maritime Chaparral Management Plan and Conservation Strategy to guide and regulate buildout and maritime chaparral management so that the long-term conservation of the ecosystem can be ensured and enhanced. The Plan should include:

- A. Map of the extent of Central maritime chaparral community, based on historical range;
- B. Standards applicable to remaining vacant parcels within the community (to carry out Recommendation SH-28.4);
- C. Standards applicable to additions to, improvements to, and replacements of development in the community (to carry out Recommendation SH-28.4);

- D. Identification of disturbed areas suitable for either restoration or development;
- E. Identification of key areas for maritime chaparral preservation and management;
- F. Consideration of a transfer of development credit program for remaining vacant parcels that would best be left undeveloped to achieve overall habitat protection;
- G. Consideration of acquisition and other preservation methods;
- H. Measures for on-going management and maintenance of the chaparral including prescribed burning and control of invasive species, and the appropriate authorities to undertake management and maintenance;
- I. Items for future research and mechanisms for integrating results of future studies into the management strategies; and
- J. Methods of information dissemination.

SH-28.6 Support comprehensive maritime chaparral management: Add an action to support and participate in to the extent that resources allow initiatives to preserve intact tracts of central maritime chaparral; coordinate management of chaparral areas, including prescribed burning and removal of invasives; and continue research aimed at understanding and protecting maritime chaparral. Revise or delete *North County Land Use Plan* policy 2.3.3.A.5 accordingly.

Issue SH-29: Protection of Monterey Pine Forest Habitat

SH-29.1 Protect Monterey pine habitat; consider all Monterey pine trees to be of equal significance: Amend the policies and standards governing Monterey pine, including the Forest Management Planning process, to clarify the importance of identifying, evaluating, and protecting pine forest habitat. Specific changes include: delete the definition of "significant" Monterey pine (currently those over 12 inches in diameter) in *Del Monte Forest LUP* policy 32, corresponding OSAC standards, and corresponding *County Code* sections. Also delete from these provisions the following phrase: "trees may be thinned to promote growth of neighboring trees" found in referenced OSAC Plan Forest Maintenance Standard for Shepherds Knoll (Parcel No. 4) Require maximum protection of identified pine forest habitat areas, including areas suitable for pine forest regeneration.

SH-29.2 Designate remaining large tracts of native Monterey pine forest as Open Space: Evaluate remaining vacant sites for potential preservation of Monterey pine forest habitat. At a minimum, redesignate and rezone the following areas:

- A. Area B portion that is not cleared or roadway to Open Space Forest (RC)
- B. Area C to Open Space Forest (RC)
- C. Areas F-1, F-2, and F-3 to Open Space Forest (RC)
- D. Area G to Open Space Forest (RC)
- E. Area H to Open Space Forest (RC)

- F. Areas I-1 and I-2 to Open Space Forest (RC)
- G. Area J to Open Space Forest (RC)
- H. That portion of Area K west of Stevenson Drive to Open Space Forest (RC)
- I. Area L to Open Space Forest (RC)
- J. That portion of Area M that is not former quarry to Open Space Forest (RC)
- K. Area N to Open Space Forest (RC)
- L. Those portions of Areas PQR that are undeveloped to Open Space Forest (RC)
- SH-29.3 Protect Monterey Pine Forest Habitat and Mitigate Unavoidable Impacts. Protect remaining Monterey pine forest by prohibiting non-resource dependent development in ESHA (unless otherwise allowed pursuant to a comprehensive habitat management plan incorporated into the LCP), mitigating impacts to ESHA, and providing for maximum restoration and management. See Recommendation SH 28-4 for details on amended policy framework necessary to protect ESHA.
- SH-29.4 Prepare comprehensive Monterey pine forest management plan: Add an action to prepare a comprehensive Monterey Pine Forest Management Plan and Conservation Strategy to guide and regulate buildout and forest management so that the long-term conservation of the Del Monte Forest pine forest ecosystem, and each of its component subtypes, can be ensured and enhanced. The Plan should be coordinated with the recommended Asilomar dunes conservation and management plan (see Recommendation SH-31.2) and should include:
 - A. Standards for developing remaining vacant parcels;
 - B. Standards for additions to, improvements to, and replacements of development in the forest;
 - C. Identification of disturbed areas, by subtype, suitable for either restoration or development;
 - D. Identification of key areas for Monterey pine forest preservation and management, by subtype;
 - E. Consideration of a transfer of development credit program if review of remaining vacant parcels indicates that overall habitat protection would be better achieved if they were not developed;
 - F. Consideration of acquisition and other preservation methods;
 - G. On-going management and maintenance of the forest and the appropriate parties to undertake management and maintenance;
 - H. Items for future research and how to integrate the results of future studies into the management strategies; and
 - I. Methods of information dissemination.

SH-29-5 Retain interim protection of Monterey pine forest: Add a provision that does not allow removal of the Resource Constraint overlay on a parcel until the Monterey Pine Forest Management

Plan and Conservation Strategy (pursuant to Recommendation SH-29.4) is complete and the underlying designation is (or is amended to be) consistent with the Strategy.

SH-29.6 Prepare guidance for evaluating Monterey pine forest: As part of carrying out the recommendation in Issue SH-1: ESHA Identification, SH-6 concerning mitigation ratios, and SH-15: Public Agency Coordination, add an action to prepare a Guidance document for Monterey Pine forest.

SH-29-7 Manage forests to address pine pitch canker: Add to required contents of Forest Management Plans: Examination of all trees potentially infected with pitch canker in order to identify and map all healthy (i.e., non-symptomatic) and/or disease-tolerant trees. Include recommendations to address any trees infected with pine pitch canker, including proper disposal if they are removed, based on latest scientific information and recommendations of Pitch Canker Task Force.

SH-29.8 Support comprehensive Monterey pine management: Add an action to support and participate in, to the extent that resources allow, initiatives to coordinate management of Monterey pine forest and continue research aimed at understanding and protecting Monterey pine forest.

Issue SH-30: Protection of Snowy Plover Habitat

SH-30.1 Strengthen protection for snowy plover habitat: Add an action to develop guidance for identifying western snowy plover nesting, foraging, and wintering habitat as environmentally sensitive habitat areas and for strengthening standards for regulating appropriate development and activities, mitigating impacts, restoring degraded habitat, and monitoring restoration.

Issue SH-31: Protection of Sand Dune Habitat

SH-31.1 Mitigate for habitat impacts: Delete the last sentence of *Del Monte Forest Land Use Plan* policy 16 that allows development on sand dunes (see Recommendation SH-28.4 as the alternative).

SH-31.2 Strengthen protection for sand dune habitat: Add an action to provide for increased protection of sand dune habitat by developing guidance for identifying sand dune environmentally sensitive habitat areas and strengthening standards for regulating appropriate development and activities, mitigating impacts, restoring degraded habitat, and monitoring restoration.

SH-31.3 Prepare comprehensive sand dunes management plan: Add an action to prepare a dune conservation and management plan for the preservation and restoration of the Asilomar Dune complex, in cooperation with the Department of Fish and Game, U.S. Department of Fish and Wildlife Service, City of Pacific Grove, and other appropriate parties. The dune plan should be coordinated with the recommended Monterey Pine conservation and management plan (see Recommendation SH-29.4) and should include:

- A. Standards for developing remaining vacant parcels;
- B. Standards for additions to, improvements to, and replacements of development in the dunes;
- C. Identification of disturbed areas suitable for either restoration or development;

- D. Identification of key areas for dune preservation and management;
- E. Consideration of a transfer of development credit program if review of remaining vacant parcels indicates that overall habitat protection would be better achieved if they were not developed;
- F. Consideration of acquisition and other preservation methods;
- G. On-going management and maintenance of the dunes and the appropriate parties to undertake management and maintenance;
- H. Items for future research and how to integrate the results of future studies into the management strategies; and
- I. Methods of information dissemination.

Chapter 4 - Water Quality and Marine Resources

For Issues WQ-1 through WQ-7 - see Appendix A, pp. 94-121

Issue WQ-8: North County Water Quality and Watershed Restoration

WQ-8.1 Monitor implementation of erosion control plans: Add an action to develop a program to monitor implementation of erosion control plans, including appropriate staff training.

WQ-8.2 Prepare comprehensive North County resources management plan: Initiate a coordinated effort to prepare the comprehensive natural resource and water basin management plan required by North County LUP Action 2.3.1.4 as soon as possible. Use the plan to guide preparation of more geographically specific plans and identify priorities for allocating resources. Evaluate the effectiveness of the other planning efforts that have occurred, so as not to duplicate efforts. Examine how voluntary programs may need to be modified, or mandatory programs implemented, in order to significantly reduce the total amount of erosion occurring in the North County planning area. Develop a strategy to coordinate funding sources (e.g., permit and mitigation fees, grading violation fines, grants), personnel, training, equipment, and other resources among the various entities with programs currently in place.

WQ-8.3 Enforce erosion control ordinance: Take action to fully enforce the erosion control ordinance, including imposing fines where justified and billing responsible property owners for sediments that the County must remove.

WQ-8.4 Support efforts to continue and expand non-point source programs: Add an action to support and participate in initiatives to prepare agricultural management plans, expand the Environmental Quality Incentives Program (EQIP), and evaluate the success of the Elkhorn Slough Permit Coordination Project to the extent that resources are available.

Issue WQ-9: Carmel Bay Area of Special Biological Significance and Ecological Reserve

- WQ-9.1 Do not allow an increase in site runoff: Amend the *Del Monte Forest and Carmel Area Land Use Plans* and corresponding *County Code* sections to mandate that development within Pescadero Canyon, Carmel River, and San Jose Creek watersheds retain runoff so that there is no net increase in runoff from a development site.
- **WQ-9.2 Monitor non-point source pollution control measures:** Add an action to develop a program to ensure that non-point source pollution control measures are implemented and monitored. Include a component to train staff how to review pollution control plans and perform inspections.
- WQ-9.3 Consolidate outfalls and include treatment: Add an action to evaluate the storm-water outfall system for purposes of reducing impacts to Carmel Bay. Consider options to modify and/or remove outfalls and replace or retrofit storm drains with filters or treatment devices to reduce water quality impacts.
- WQ-9.4 Increase use of reclaimed water: Add a policy to the LCP to require use of reclaimed water for irrigation wherever possible.
- WQ-9.5 Control golf course runoff: Add an action to work with golf course superintendents to implement water quality control plans to address irrigation and fertilizer use through turf and integrated pest management. Plans should be prepared by a qualified resource specialist to:
 - A. Minimize or eliminate the use of pesticides, herbicides, fungicides, fertilizers, and other chemicals. These products should be used in a way that minimizes impacts to water quality and should not be placed near streams;
 - B. Restrict chemicals used on site to those with the lowest toxicity to aquatic life;
 - C. Implement measures to retain non-stormwater runoff onsite;
 - D. Designate chemical storage area(s) and include measures to prevent unintended transport of chemicals outside the storage area;
 - E. Favor non-chemical strategies over chemical strategies for management of pests onsite; and
 - F. Include a monitoring component, where necessary to demonstrate compliance with "a" through "e" above, that describes the methodology for monitoring, including which pollutants of concern will be monitored, specific threshold levels and sampling protocols, location of monitoring sites, schedule for monitoring, reporting of results, and actions to be taken if water quality impacts are discovered.

Chapter 5 - Public Access

For Issues PA-1 through PA-9 - see Appendix A, pp. 127-148.

Issue PA-10: Coastal Access Points

PA-10.1 Revise and update the Public Access chapters: Revise and update the public access provisions of the four land use plan segments (e.g., access inventory tables and maps and corresponding land use plan text and policies and *County Code* provisions) to maximize public access opportunities.

The update should include revisions to reflect current status and condition of existing public access, such as: (1) new public acquisitions, (2) new place names, and (3) new access improvements that have occurred since certification.

The update should also include revised or additional access requirements needed to maximize access and recreational opportunities pursuant to Coastal Act policies. The update should include: (1) a listing of additional acquisitions and improvements that are needed to maximize access; (2) identification of tasks needed to open and manage accessways to maximize access opportunities; and (3) measures to protect existing access from closure. Certain specific recommendations for maximizing public access are identified in Appendix B (Access Points) and Appendix C (Trails) of the Periodic Review for the currently identified access points. See also Recommendations LU-15.1, SR-10.2, and SR-10.19 and Recommendations for Issues PA-5: Malpaso Creek Beach, PA-6: Yankee Point Beach, PA-7: Stillwater Cove, and PA-9: Carmel River State Beach (aka Monastery Beach) Parking. Where necessary, further evaluation of identified access points should occur, and further recommendations derived from such evaluation should also be included in the update, including recommendations for additional access points and trails not currently in the LCP. At a minimum, new access points should include: -in the North County planning area: an overlook at the north end of Bluff Road; an overlook at the Pajaro River Trail (south bank, east of Thurwachter Bridge); the Moss Landing RV Park and Playground; the Moss Landing Marine Lab Monterey Bay overlook and boardwalk to the Old Salinas River salt marsh south of Sandholdt Road Bridge; Royal Oaks County Park; and Manzanita County Park. - In the Del Monte Forest planning area: directional signage, interpretive signs and seating to aid in public recognition and use of the Sloat Building overlook and improved coastal access opportunities in and around the Pebble Beach Lodge area; available public parking areas in the vicinity of the Stillwater Cove access point; - and in the unincorporated Carmel planning area: Carmel Point; Rio Park; Hatton Canyon trailhead; Palo Corona Ranch Trailhead; Point Lobos Ranch; Garrapata State Park - Wildcat Canyon headwaters area; Malpaso Beach access; and Yankee Beach access. (See also Recommendation PA-11.1.)

The update should result in a specific access component consistent with requirements of Coastal Act Section 30500 and California Code of Regulations Section 13512. The access provisions of the four LCP segments may be consolidated into one chapter or can remain four separate chapters. If they remain separate, their formats should be made consistent. Examples of consistent formatting include placing all site-specific recommendations (including those now found in land use policies or other text) into tables; integrating the multiple tables in the North County, Del Monte Forest and Big Sur Coast Land Use Plans into one table per segment; and moving text in the tables that are really recommendations from the "constraints" column into a "recommendations" column.

If the revised access component format retains both general access policies as well as site-specific recommendations, then provisions need to be included (e.g., as a revision to *Del Monte Forest Land Use Plan* policy 145 and *Carmel Area Land Use Plan* policy 5.3.2.1) to ensure that for all new

access development, the applicable general access policies as well as the site-specific recommendations govern.

The updated access component also needs provisions applicable to all segments to ensure that the applicable access requirements are implemented through conditions on coastal development permits (e.g., using the language of *Carmel Area Land Use Plan* policy 5.3.2.1).

PA-10.2 Regulate access point closures: Add to County Code Sections 20.06.310.4 & .5 definition of "Development" the following:...including closures of access points that had been open to the public. (See also Recommendations PA-11.7 and PA-12.1.)

PA-10.3 Document and pursue prescriptive rights: Add an action to develop a procedure to document informal public use and potential prescriptive rights where the potential existence of such rights is an issue. Information developed under this documentation effort shall be used to protect prescriptive rights in future County planning and permit review. Such a program could be coordinated with the efforts of the Coastal Commission's Public Access program to document prescriptive rights and could include the participation of other agencies and interested groups.

PA-10.4 Support and monitor access implementation: Add an action to support and participate in initiatives to implement access recommendations, prepare access management plans, and coordinate access points with the California Coastal Trail to the extent that resources allow. Activities could include: 1) tracking and ensuring implementation of any access provisions associated with coastal permits (e.g., deed restrictions, easements); 2) periodically evaluating improvements/ challenges of providing and maintaining maximum public access opportunities consistent with resource protection needs; 3) facilitating the most appropriate agencies or non-profit groups to open and manage access points; 4) prioritizing and accomplishing acquisition and management goals through coordinated efforts; 5) supporting funding for access improvements; and 6) monitoring and updating public access information (access point, acquisition/provisions, management, improvements, constraints, etc.) in a way that maximizes public access and recreational opportunities (e.g., incorporation of a GIS system into the planning process would allow tracking of such information, and could easily be updated regularly to include new public land acquisitions and access points as they are developed by public agencies or private landowners).

Issue PA-11: Coastal Trail System

PA-11.1 Revise and update LCP trail provisions: Update and revise the LCP's trail provisions pursuant to Recommendation PA-10.1 to reflect current circumstances (see Appendices B & C); and evaluate whether additional trails should be added and include them in the LCP.

The update shall include depictions and policies for the California Coastal Trail system, including the Monterey Bay Sanctuary Scenic Trail, pursuant to Recommendation PA-11.2. The Coastal Trail system, including the MBSST, is the compilation of trail segments identified in Tables PA-11a, b, and c as "CCT" and "MBSST" and depicted on Maps PA-11a, b and c for North County, Del Monte Forest, and the Carmel Area. (The Coastal Trail system on the maps is the compilation of all categories of existing and proposed trails shown, except for the category "Proposed-Substantial Impairment Recommend Alternative Alignment.") The update should ensure that bicycle routes are

linked to provide continuous bicycle access along the coast, including from Pacific Grove to Carmel, through Del Monte Forest.

The update shall also encompass inland and linking trail corridor locations, including at a minimum: a trail along the east levee of the Old Salinas River Channel (from Sandholdt Bridge to Monterey Bay Dunes Way); trails in the Moss Landing Wildlife Area; Elkhorn Slough National Estuarine Research Reserve trails; a trail northward from Kirby Park along easterly side of Elkhorn Slough; Gabilan Trail (connects Pajaro River Trail to Royal Oaks County Park, as shown on North County LUP Figure 6 map); additional linking trails from Elkhorn Slough to the Royal Oaks and Manzanita County Parks; a Castroville to Old Salinas River greenway trail along Tembladero Slough; a trail around Elkhorn Slough; other relevant trail recommendations from the North County Trails Plan³ and the General Bikeways Plan; a trail through Hatton Canyon, (see Recommendation PA-11.5); a trail along Carmel River; a trail along Point Lobos Ridge; and the Sur Sur Trail.

Maps included in the update should all be of a consistent format. Elements of a consistent map format could include: having consistent legends; including the Pacific Coast bicycle route throughout the County; distinguishing existing versus proposed trails and trails open to the public versus not open to the public; exact trail locations versus proposed locations within wider corridors; trails on public versus private property; and essential trails to remain open versus others that may be closed. Accompanying text should be revised as necessary to match the revised maps.

The update shall be prepared in consultation with agencies responsible for trails planning and management (including the Transportation Agency of Monterey County, State Parks, Moss Landing Harbor District, Elkhorn Slough National Estuarine Research Reserve, Monterey Peninsula Regional Park District, Pebble Beach Company, U.S. Forest Service, State Coastal Conservancy, and California Coastal Commission).

PA-11.2 Support continuous coastal trail system: Add to the LCP's public access component the following descriptions of the California Coastal Trail and Monterey Bay Sanctuary Scenic Trail:

A. <u>California Coastal Trail</u>: The California Coastal Trail (CCT) is a "continuous public right of way along the California coastline; a trail designed to foster appreciation and stewardship of the scenic and natural resources of the coastal zone through hiking and other complementary modes of non-motorized transportation." It is anticipated that the CCT would be comprised of several strands trending along the coast, including beach routes, boardwalks and hiking trails for pedestrians, and where appropriate, a paved-surface multi-modal trail to accommodate all non-motorized users including recreational and commuting bicyclists, and wheelchairs. The multi-modal pathway will also serve as the Monterey County portion of the Monterey Bay Sanctuary Scenic Trail (MBSST).

Both the CCT and MBSST would also be designed to link to connecting spur trails, loops and inland recreational corridors and facilities. Spur trails, connector trails, seasonal

³ Monterey County Planning and Building Inspection Department, North County Trails Plan, adopted October 10, 1989.

Monterey County Department of Public Works, 2001 Monterey County General Bikeways Plan, 2001.

⁵ State Coastal Conservancy, Completing the California Coastal Trail, Review Draft, January 21, 2003, p.1.

alternates, side loops, beach accessways, scenic overlooks, and trailhead parking would all be considered part of the California Coastal Trail system. The range of appropriate improvements would include low-profile interpretive and informational signs and displays, wildlife observation blinds, foot bridges, stiles, wooden benches, picnic tables, handrails (in high use areas), (well-screened) restrooms, and gates and fencing as needed to protect agriculture, sensitive habitats, and private property.

In Monterey County, the overall vision for the alignment of the CCT follows the shoreline south from the Pajaro River, along the beaches around the perimeter of Monterey Bay, connecting to the existing Monterey Peninsula Recreation Trail. Further south, the CCT utilizes parts of the Del Monte Forest Hiking and Equestrian Trail System to connect from Asilomar Beach, along the shoreline and through the forest, to Carmel Beach. Restoration of the historic Redondo Trail, in Pescadero Canyon, would also facilitate connections with other Monterey Peninsula trails. An alternative route, that would further facilitate a loop trail around the Monterey Peninsula, is through Hatton Canyon, including an extension of the existing bike path south from Monterey to the mouth of Carmel Valley. South of Carmel, both summer and winter seasonal crossings of the Carmel River will be needed to provide linkage to the Point Lobos trail system. The CCT will then continue along Highway 1, Spindrift Road and Yankee Point Drive to Malpaso Creek and the northern end of the Big Sur Coast planning area. An additional inland route would go through the Palo Corona Ranch and along Coast Ridge.

The remaining approximately 75 miles south to the San Luis Obispo County line will be comprised of several parallel strands and connecting trails through Los Padres National Forest, the nine state park units south of the Carmel River, open space lands administered by the Monterey Peninsula Regional Park District, along historic backroads, and where necessary, within the State Highway Route 1 right-of-way.

Where feasible and appropriate, sections of the original pre-highway era Big Sur Coast Trail can be reconnected and restored (e.g., along the Buckeye Trail, north of Salmon Creek). In the Big Sur Coast planning area, the CCT would be aligned along this historic route. The reconnected Big Sur Coast Trail will be located entirely on public lands or rights of way, or elsewhere under cooperative agreements with landowners, and will provide a continuous connection through to Ragged Point in San Luis Obispo County. This revived trail will roughly parallel the shoreline of the Pacific Ocean, loosely along the alignment of the more utilitarian pre-highway era trail. The modern alignment can weave from one side of Highway 1 to the other. Such alignment flexibility will allow for the optimum recreational experience, and take advantage of opportunities to incorporate and link existing trail segments. An essential goal is to assure maximum feasible separation from motor vehicle traffic, as needed to provide a sense of wildness--as it might have been experienced on the original Big Sur Coast Trail. However, it is recognized that the Highway 1 right-of-way will often provide the only reasonable way to avoid physical constraints, sensitive habitat areas or private property. The paved shoulder of Highway 1—comprising the Pacific Coast Bicycle Route through Big Sur-will be maintained and where possible upgraded to accommodate bicyclists. Equestrians will be encouraged to use the Coast Ridge Trail southwards from Carmel Valley,

and a roadside path will allow pedestrians to walk between State Park units where private ownerships, hazards or extreme topography preclude a coastal trail location on the immediate shoreline.

B. Monterey Bay Sanctuary Scenic Trail: The Monterey Bay Sanctuary Scenic Trail is a multimodal recreational trail, generally following the shoreline of Monterey Bay, incorporating existing recreational trails and providing a continuous connection between the cities of Santa Cruz and Pacific Grove. Spur trails, feeder trails, seasonal alternates, side loops, beach accessways, overlooks, vista points, connector trails to schools, businesses and commuter routes, and potential future extensions to Pt. Lobos State Reserve that connect to the Monterey Bay Sanctuary Scenic Trail would all be considered part of the Sanctuary Trail system. The range of appropriate improvements would include interpretive and informational signs and displays, stairways, wheelchair ramps, boardwalks, wildlife observation blinds, restrooms, parking areas, bike lockers, emergency phones, and gates and fencing to protect agriculture, sensitive habitats, and private property. The trail would be serviceable as a Class 1 bikeway, i.e., separated from motor traffic with pavement or boardwalk surface width generally not greater than 12 feet and with separate unpaved pedestrian and equestrian alignments provided where needed and feasible.

PA-11.3 Update trail design standards: Revise the LCP's general standards for trails located in the coastal zone to provide additional specificity with respect to the different types of trails, trail locations, and design elements. Overall, the standards for trails should reference or be consistent with the California Department of Parks and Recreation *Trails Handbook* (and, comparable U.S. Forest Service standards on federal lands).⁶ Bicycle facilities shall be developed consistent with Chapter 1000 of the Highway Design Manual.⁷

Paved trails, boardwalks and similar trail structures in high use areas should be a minimum of 5 feet wide to allow two wheelchairs to pass one another. Such trails shall be designed and constructed to eliminate physical barriers and promote equal accessibility, consistent with the purposes of the Americans with Disabilities Act.

Special standards are needed for hiking trails south of the Carmel River, to insure that in providing pedestrian access, the rugged and undeveloped character of the natural landscape is protected. Such standards should include the following: Hiking trails shall be carefully located, designed and maintained consistent with the wild character of the Big Sur Coast. Any newly constructed trail links should be established, where feasible, through minor improvement of existing fire or farm roads, animal paths, vegetative definition, and other measures that do not substantially alter the natural landform. Installation techniques should anticipate future rest-and-recovery cycles, and alignment adjustments as needed to respond to changing environmental conditions. Careful attention should be given to drainage design, while maintaining a strictly informal, non-engineered finished appearance. Visible evidence of any necessary construction work should be minimal. In order to rigorously maintain the unimproved (i.e., non-urban) appearance of the Big Sur landscape, trail surfaces shall

⁶ For example, USDA, Forest Service Standard Specifications for Construction and Maintenance of Trails, September 1996.

⁷ Caltrans, *Highway Design Manual*, n.d.. Chapter 1000 is "Bikeway Planning and Design." Available on the web site: http://www.dot.ca.gov/hq/oppd/hdm/hdmtoc.htm#hdm.

remain unpaved (except on bridge decks or similar engineered structures). Any surface binders or other surfacing materials such as crushed rock shall have a natural appearance and blend inconspicuously with the surrounding environmental context. Trails shall be maintained at the minimum surface width needed to provide a clearly discernable and functional path for persons in a good state of fitness. Generally, a 1-2 foot tread width, together with a 4-6 foot vegetation clearance at shoulder height, will be sufficient. Greater widths may be warranted, but only for high use locations such as popular beach accessways and where fully accessible trails are to be located. (See also Recommendations LU-13.2 and LU-13.8.)

PA-11.4 Provide for bicycle access: Add a provision to the LCP public access component(s) to require that provisions for bicycles be included in any road or trail projects where bicycle facilities are planned (pursuant to Recommendations PA-11.1 through 11.3) and that improvements for bicycling be considered in other road projects as well. Ensure that any road improvements along the non-freeway portions of Route 1 through North County and Carmel Area maintain or provide adequate shoulders for bicycles (see parallel Recommendation PA-11.2 for Big Sur coast).

PA-11.5 Add Hatton Canyon to the LCP: Revise the Carmel Area Land Use Plan and corresponding County Code provisions to show the new coastal zone boundary encompassing the Hatton Canyon corridor. Designate the area as Scenic and Natural Resource Recreation and provide for a trail through the Hatton Canyon corridor. Zone the trail corridor OR(CZ) Open Space Recreation and zone the remaining area RC(CZ) Resource Conservation with standards for the appropriate forms and intensities of public use. Include management measures for State Parks to officially establish management authority and protect natural resources (e.g., Monterey pine, Hickman's onion, riparian/wetlands).

PA-11.6 Use GIS for trail inventorying and planning: Add an action to use a GIS system to maintain an updated map and inventory of existing trails and proposed trail corridors, in coordination with various agencies involved in trails planning and development (see also Recommendation 10.4).

PA-11.7 Regulate trail closures: Add to the *County Code* Sections 20.06.310.4 & .5 definition of "Development" the following:...<u>including closures of trails that had been open to the public</u>. (See also Recommendations PA-10.2 and PA-12.1.)

PA-11.8 Support efforts to provide trails: Add an action to support and participate in initiatives to plan actual trail segments, implement LCP trail provisions, and maintain free bicycle access through Del Monte Forest.

Issue PA-12: Road Abandonment

PA-12.1 Regulate road abandonments: Add to *County Code* Sections 20.06.310.4 & .5 definition of "Development" the following:...including road abandonments. (See also Recommendations PA-10.2 and PA-11.7.)

Issue PA-13: Recreational Units in Big Sur

PA-13.1 Update campground definitions: Add the following definitions to the *Big Sur Coast Land Use Plan* and corresponding *County Code* sections:

- A. Hike-in & Environmental Campsites Hike-in and environmental campsites shall be defined as campsites without road or vehicular access, and which have no facilities or services other than a source of water, a sanitary facility, a safe place for a campfire, possibly a table, and a cleared site for camping.
- B. Rustic Campsites A rustic campsite shall be defined as a campsite that is unpaved, and that does not have utility, sewage, or similar conveniences at the site.
- C. RV and Tent-cabin Campsites A recreational vehicle (RV) or tent-cabin campsite shall be defined as a campsite that is paved, or that has electrical, sewage or other utility conveniences at the site.

PA-13.2 Regulate bed and breakfasts in Big Sur: Add the following policy for bed and breakfasts to the LCP for the Big Sur coast: Bed and Breakfasts shall be defined as a visitor facility that is occupied and managed by the owner of the property on which the facility is located, and which does not exceed 5 guestrooms. There is no acreage per guestroom density requirement for Bed and Breakfasts. The number of guestrooms shall not be subject to increase (e.g., by use of TDCs, TDRs, etc.). Bed and Breakfasts shall be located within Rural Community Centers or Watershed and Scenic Conservation areas. Bed and Breakfasts within Rural Community Centers shall not be located on parcels less than 10 acres in size. Bed and Breakfasts located within Watershed and Scenic Conservation Areas shall not be located on parcels less than 40 acres in size. Bed and Breakfasts shall demonstrate adequate parking, sewage treatment, and road capacity, and shall otherwise comply with all policies in this Plan. Bed and Breakfasts shall only be located where they have direct access to an existing, improved public road, or, where they have use of a common driveway or private road that intersects a public road with permission from all owners of property served by the driveway or private road. Bed and breakfasts shall not be located where shared-use single-lane roads also function as coastal trail links, and the added traffic would degrade public access quality (e.g., Sycamore Canyon Road and Palo Colorado Road).

PA-13.3 Update and revise the number and distribution of visitor units for Big Sur: Revise entries #2 and #3 in Table 1 of the Big Sur Coast Land Use Plan to accurately depict the number and distribution of visitor-serving units as follows: place numbers under the appropriate headings (e.g., move all numbers that are totals to the final column and rename this last column from "estimated additional units" to "total number of units"); update the totals; add an entry for "Bed and Breakfasts" (pursuant to Recommendation PA-13.2) under the "Visitor Accommodations" heading; increase the total maximum number of hostel beds from 50 to 100; move RV campground entry from under "Visitor Accommodations" to under "Campground" heading and expand RV category to encompass tent cabins (pursuant to Recommendation PA-13.1); and add a note that existing campgrounds can retain their current densities (pursuant to Recommendation PA-13.4).

PA-13.4 Maintain campground inventory: Add to *County Code* sections applicable to Big Sur the following: Any proposal that would result in a loss of campground spaces can only be approved if they are being replaced elsewhere. An exception to this provision may be considered if there are

overriding resource protection reasons for the proposal that cannot be otherwise addressed and if there are no feasible relocation or replacement opportunities, based on an analysis of alternatives to the reduction of campground spaces. Grandfather existing campgrounds at their current density.

PA-13.5 Encourage campgrounds: Add a provision to the LCP (such as to *Big Sur Coast Land Use Plan* policy 5.4.3.C.2) to promote campgrounds when considering visitor-serving projects.

PA-13.6 Make WSC(CZ) regulations consistent with *Land Use Plan*: Revise *County Code* Section 20.17.050 to add a category of conditional uses in the Watershed and Scenic Conservation District: Recreational facilities permitted in the Outdoor Recreation category including rustic inn or lodging units, and hostels.

PA-13.7 Locate a hostel site within the Big Sur Coast Planning Area: Add an action to coordinate with State Parks, Hostelling International, the Coastal Commission, and any other interested parties to locate a suitable site or sites for a hostel.

Chapter 6 - Coastal Hazards

For Issues CH-1 through CH-7 - see Appendix A, pp. 148-165.

Issue CH-8: Del Monte Forest Shoreline Erosion

CH-8.1 Fully analyze alternatives to shoreline structures: Add a coastal zone wide policy to the LCP that explicitly requires evaluation of alternatives to new shoreline protective devices, before processing permits for these devices, and add an action to develop a procedure for ensuring that an alternatives finding for shoreline protective device permits are made for all such projects. Alternatives analysis shall include consideration of potential relocation of existing development landward as well as the removal of portions of existing development.

CH-8.2 Guide permit decisions using shoreline management plans: Add a provision to the LCP and accompanying procedural guidance to require preparation of shoreline management plans for portions of the Del Monte Forest shoreline in non-residential use to guide how LCP shoreline structure policies are to be applied to these areas. Applications for shoreline protective measures must demonstrate consistency with the shoreline management plan. The plan may be updated periodically. The plan(s) should:

- A. Identify areas of the Forest shoreline that are threatened by erosion in both short (1-2 years) and medium to longer terms (5 to 10 years). Assess specific sections of the coastline based on factors including, but not be limited to, geology and wave conditions and regional average annual erosion rates;
- B. Identify areas where bluff top erosion could occur due to irrigation;
- C. Identify existing areas of armoring;
- D. Identify environmentally sensitive habitat areas where encroachment of structures is to be avoided;

- E. Specify requirements and guidelines for evaluating alternatives to avoid armoring. Identify options for relocating facilities or portions of facilities as alternatives to armoring when facilities are modified, renovated or reconstructed. Evaluation should include, but not be limited to, the use of technical evaluations of the site (geotechnical reports, engineering geology reports, etc.), the consideration of the type of and permanency of the feature along the shoreline in question (e.g., golf course fairway versus green), an examination of all other feasible options (removal, relocation, "do nothing", sand replenishment, etc.), and adequate evidence to conclude that a shoreline protective device would be the "best option" (most protective of the public trust, best long term solution, etc.) for the site.
- F. Where avoidance of armoring is not feasible, specify requirements and guidelines that sets design parameters to minimize beach encroachment and adverse visual impacts. Include standard engineering plans defining the specific types of armoring which would be acceptable for specific areas, and where appropriate, identification of the types of armoring that should never be considered for certain areas in order to minimize risks and adverse impacts to public access and scenic resources from the shoreline and adjacent recreational areas;
- G. Specify measures to address drainage and to ensure that irrigation does not contribute to erosion (see Recommendation WQ-9.3);
- H. Specify measures to allow access by the general public;
- Specify requirements for monitoring and maintenance of shoreline protection devices that
 may include discussion of mechanisms to ensure shoreline protection effectiveness and
 public safety with provisions for the removal of ineffective or hazardous protective
 structures, as well as programs to address beach replenishment and sand supply;
- J. Specify requirements to address emergency armoring, such as: procedures for field inspections before and after storm seasons; guidance for types of preferred temporary structures, and provisions for removal of temporary structures if no follow up permit is filed within 30 days; and
- K. Specify implementation requirements such as deed restrictions to assure long-term compliance with the terms of the Shoreline Management Plan.
- CH-8.3 Limit "existing structure" concept: Add a provision to the *County Code* declaring that new development approved after the date of enactment of this provision shall not be considered an "existing structure" for purposes of shoreline protection proposals.
- CH-8.4 Support Sanctuary's regional shoreline management strategies: Add an action to support and participate in the Monterey Bay National Marine Sanctuary's Coastal Armoring Action Plan to the extent that resources allow. The County should review and implement where relevant the Action Plan's strategies for regional and subregional responses to shoreline management (see Recommendation CH-8.2).

Issue CH-9: Rural Fire Standards

CH-9.1 Consolidate and make consistent all fire safety provisions: Consolidate, revise, and cross-reference the various Coastal Implementation Plan provisions related to roads and vegetation clearance (e.g., the referenced General Plan policies, the referenced "Fire Safe Guide for Residential Development in California, and County Code Chapter 18.56) to avoid repetition and to clearly promote the intent of these various provisions that alternative fire protection standards shall be used to minimize road surfacing and vegetation clearing where such activities conflict with other resource protection policies.

Add an action to prepare procedures for ensuring that specific findings will be made that explain how, in any rural project as approved or conditioned: (1) the siting and design standards result in using fire protection techniques that maximize ESHA protection; and (2) the development (including structures and driveways) is sited and designed to avoid hazardous areas to the maximum feasible extent.

In consolidating and rewriting the standards for roads, delete the qualifier "new" from provisions that should apply to all road work, whether maintenance, improvement, or new development; i.e., all provisions except those that apply to the initial siting of a road.

CH-9.2 Minimize and mitigate vegetation clearance required for existing development: Add a provision to the LCP [and revise or delete *North County Land Use Plan* policy 2.3.3.A.5 accordingly] that applies to existing development that cannot comply with restrictions limiting additional development and vegetation clearing for building in ESHA (see Recommendation SH-28.4), as follows:

For purposes of fire safety, vegetation clearing may be approved in environmentally sensitive habitat areas only where vegetation encroaching within 30 feet of an existing development presents a fire hazard, and where compliance with the recommended procedures for addressing fire hazards (see Recommendation CH-9.1 above) results in a recommendation to remove the vegetation because no other fire hazard reduction measures are feasible or sufficient, provided the following requirements are applied:

- A. Define the resulting disturbance envelope for all vegetation removal and any additional development;
- B. Provide compensatory mitigation for the area to be cleared at a 3 to 1 ratio; this may be accomplished onsite by setting aside a currently disturbed area to return to habitat (e.g., by reducing the size of lawn or ornamental landscaping), by contributing to a similar off-site reservation, or by a combination of these two measures; and
- C. Preserve the remainder of the parcel in open space (including the current disturbance envelope, and any on-site mitigation area) through an endowed easement to a third party that allows management of the habitat within the easement area.

Note: this provision would apply to any developed parcel where additional vegetation removal is proposed for fire protection purposes including parklands.

CH-9.3 Build on least hazardous portion of a site: Add a provision to the *County Code* governing Big Sur that provides:

Development in high to extreme (very high) fire hazards areas shall be located on the least hazardous portion of the site otherwise suitable for development in an manner consistent with the policies of the *Big Sur Coast Land Use Plan* and corresponding ordinances.

CH-9.4 Prepare procedural flow chart for resolving fire protection issues: Add an action to develop procedural guidance for resolving fire protection issues, including a flow chart that incorporates consultation with fire officials concerning fire protection standards and consistency with other resource protection policies. Ensure that permit applications include all proposed fire protection measures.

CH-9.5 Revise fire hazard handouts: Add an action to prepare and/or revise handouts to property owners in fire hazard areas to be consistent with revised and clarified procedures and standards. Also, review public handouts, press releases, etc., of other agencies that direct people to clear around their existing structures for fire prevention and suggest any necessary revisions to assure consistency with other LCP ESHA protection policies.

Issue CH-10: Carmel River Mouth Breaching

CH-10.1 Obtain permits for breaching: Take action to obtain all necessary permits prior to any further breaching of the Carmel River lagoon. Complete the necessary background studies and permit application as soon as possible to obtain approval of interim breaching until a longer-term alternative is chosen.

CH-10.2 Pursue an alternative to breaching: Add an action to evaluate alternatives, including installation of a floodwall, that would alleviate the need for most, if not all, lagoon breaching and commit to a firm time line to implement the selected least environmentally damaging alternative.

CH-10.3 Designate contacts to address breaching: Add an action to designate a lead department or staff person responsible for lagoon management. Also, pursue an adequate funding source to manage the Carmel River lagoon environment consistent with permit requirements, such as extending a flood district to cover Mission Fields.

CH-10.4 Support coordinated and watershed responses to breaching: Add an action to support and participate in initiatives to coordinate agency responses to breaching and to prepare a Carmel River watershed plan that includes a lagoon management component to the extent that resources allow.

Issue CH-11: Salinas River Mouth Breaching

CH-11.1 Obtain permits for breaching: Take action to obtain all necessary permits prior to any further breaching of the Salinas River lagoon. The County should not conduct any breaching activities on the Salinas River National Wildlife Refuge property in the absence of U.S. Fish and Wildlife Service authorization and an amended federal consistency authorization by the Coastal

Commission. Complete the necessary background studies and permit application as soon as possible to obtain approval of interim breaching until a longer-term alternative is chosen.

CH-11.2 Reconvene Salinas River Task Force: Take action to immediately reconvene the Salinas River Task Force to address the remaining work tasks and items to be reevaluated, and present the results to the Coastal Commission. Included in this effort should be a work program and time limit for following through on various items, including pursuing the alternatives to breaching. State Parks staff also should actively involved in development of any breaching management plan as breaching has historically occurred across State Parks property, and they share in resource management of the Salinas River Lagoon adjacent to the Salinas River State Beach.

CH-11.3 Pursue alternatives to breaching: Add an action to pursue flood proofing of existing structures and fields and/or compensating farmers for allowing their fields to occasionally flood that would alleviate the need for most, if not all, lagoon breaching after the Salinas River Task Force has reconvened and reported pursuant to Recommendation CH-11.3.8 The County should commit to a firm timeline to implement the selected least environmentally damaging alternative for lagoon management.

CH-11.4 Support coordinated and watershed responses to breaching: Add an action to support and participate in initiatives to coordinate agency responses to breaching and to prepare a Salinas River watershed plan that includes a lagoon management component to the extent that resources allow.

Issue CH12: Tembladero Slough

CH-12.1 Prepare comprehensive management plan for Tembladero Slough: Add Tembladero Slough to the list of wetlands needing comprehensive management plans in *North County LUP* action 2.3.4.2.

CH-12.2 Consider habitat needs and water quality in flood planning: Take action to emphasize habitat value and water quality improvements in the on-going planning for the Tembladero Slough and Reclamation Ditch, while supporting current flood control. Work in concert with state agencies and local land owners to identify opportunities for restoration of Tembladero Slough which provide water quality improvement, address flood control needs, and are respectful of land owner rights, similar to those outlined in the *Moro Cojo Slough Management and Enhancement Plan*.

Issue CH-13: Pajaro River

CH-13.1 Prepare comprehensive management plan for the Pajaro River lagoon: Add "Pajaro River lagoon" to the list of wetlands that should be comprehensively planned under *North County LUP* Action 2.3.1.4.

CH-13.2 Consider habitat needs and water quality in flood planning: Take action to complete the comprehensive flood control management plan called for in the LCP (in concert with an updated

This would involve raising a strip of the Leonardini farmland as mentioned in the Salinas River Lagoon Management and Enhancement Plan, p.81. John Gilchrist and Associates, et. al., March 1997, prepared for Salinas River Lagoon Task Force and Monterey County Water Resources Agency.

wetland management plan pursuant to Recommendation CH-13.1) that follows these Coastal Act and LCP parameters:

- A. The riparian corridor and wetland habitats of the Pajaro River shall be protected by future flood management plans to the greatest extent possible.
- B. Flood management shall give priority to non-structural improvements to the corridor that allows the river to interact with its floodplain as it had historically to the maximum extent feasible (see Recommendations for Issue SH-10: Streambank Protection).
- C. Changes to the river channel, when necessary, shall focus on widening the area between levees without removing the existing riparian corridor or altering the low-flow river channel.
- D. Flood easements on adjacent agricultural lands (with low level berms to protect settled areas) shall be evaluated. The occasional flooding of farmland presents a mixture of benefits and costs to agricultural production and the environment. It has been argued that periodic flooding of agricultural land is beneficial to the soil productivity of the flood plain. However, depending on the crop and farming practices, such flooding can introduce harmful chemicals into the wetland and marine habitats. Such water quality concerns should be evaluated. The potential immediate loss of value to winter crops is also of concern and should likewise be evaluated. Funding for the loss of harvests or the installation of efficient drainage devices should be considered if agricultural flood easements are to be used. These remediation measures may still be more cost effective than expensive structural flood protection.
- E. The existing riparian vegetation in the Pajaro River corridor, particularly the established habitat corridor downstream of Highway One, shall be preserved and enhanced.
- F. Revegetation of the levee banks and the river channel to provide erosion protection and enhanced riparian habitats shall be required, including remediation and mitigation for all habitat disturbances.
- G. Large-scale vegetation or sediment removal as a flood control practice shall be given low priority and shall be discouraged.
- H. Levee rehabilitation and/or levee raising shall be conducted with minimal impact on riparian vegetation and water quality.
- I. Increased use of water conservation and groundwater recharge programs shall be encouraged; particularly efforts to reduce creek diversions and groundwater consumption from the Pajaro River watershed during summer months.
- J. Continuous monitoring of water quality, species, and habitat in the riparian corridor and the lagoon shall be included with any flood management measures. Such monitoring shall evaluate the effects of any associated activities such as lagoon breaching, levee repairs, and vegetation clearance.
- K. Water quality measures designed to filter and treat all sources of polluted runoff, including agricultural runoff, shall be included in any Pajaro River levee designs considered.

- L. Artificial river breaching shall be discouraged, and alternatives to artificial breaching (including flood-proofing structures, flood easements, alternative land drainage systems, pumping of lagoon water, and the construction of a by-pass channel) given relative priority.
- M. Upstream runoff prevention mechanisms (such as increased vegetation, management of development and resource activities, reduction of impacted or impervious ground surfaces, site-based storm water detention ponds and groundwater infiltration structures) shall be encouraged.
- N. Both the lagoon and riparian corridor extending to Highway One shall be evaluated for opportunities to create nature observation trails and overlooks. Any modification of the Highway One crossing of the river shall include provisions for a small parking area to the extent that habitat can be protected. Such recreational development shall be done with sensitivity to the riparian habitat, leaving significant areas undisturbed.
- O. The upper floodplain areas of the Pajaro River shall be considered as appropriate sites for recreational use. Playing fields may also be able to meet a dual purpose of providing local open space and creating a maintained flood channel outside of the low flow riparian habitat.
- P. The Pajaro River riparian corridor is a scenic resource of great local and statewide importance that shall be protected for the preservation of these scenic values. Thus, any necessary levee improvements shall limit alterations to the river corridor vegetation and be sensitive to visual impacts of such construction. Extreme river corridor vegetation clearance (such as that that occurred upstream of Highway One in 1995) shall be avoided in the future. Any flood control project shall consider the scenic qualities of the river in designing flood management strategies.
- Q. The full length of the river system, including the lagoon and the upper watershed, shall be considered in any flood management project even if physical planning only considers a segment of the River or watershed.
- R. Flood control management shall avoid vegetation clearance or sediment removal in the riparian corridor, particularly seaward of Highway One. Sediment removal or vegetation clearance upstream would have significant impact on habitat and water quality in the Coastal Zone, and such activities are discouraged.
- S. Levee rehabilitation or improvement shall not effect coastal resources or flow within stream channels. Repairs shall avoid alterations of stream hydrology and riparian habitat, and any disturbance from construction activities shall be followed by re-vegetation.
- T. Resource agencies (including but not limited to: California Department of Fish and Game, National Marine Fisheries Service, Regional Water Quality Control Board, and U.S. Fish and Wildlife Service) shall be consulted early in the development of any flood control projects, and their input and recommendations shall be incorporated into project design and development.

CH-13.3 Support coordinated and watershed-wide responses to breaching: Add an action to support and participate in initiatives to coordinate agency responses to breaching and to prepare a Pajaro River watershed plan that includes a lagoon management component to the extent that resources allow.

Chapter 7 - Scenic and Visual Resources

For Issues SR-1 through SR-9 - see Appendix A, pp. 165-208

Issue SR-10: Big Sur Critical Viewshed

SR-10.1 Detail more explicit critical viewshed exceptions: Clarify *Big Sur Coast Land Use Plan* Policy 3.2.5 "Exceptions to the Key Policy" and corresponding *County Code* sections (prohibiting visible development in the critical viewshed) by adding provisions for demolitions, replacements and additions, and revise as follows:

- A. 3.2.5.A: <u>Rural Service Centers</u>: Add the following: Apply design criteria of Policy 5.4.3.L.4 to all of these areas, not only Big Sur Valley. (See Recommendation SR-10.7 for additional design criteria that might be developed and Recommendation SR-10.8.)
- B. 3.2.5.B: <u>Essential Ranching Structures</u>: Add the following design criteria: Design shall be in keeping with the traditional rustic Big Sur character as represented by windmills, traditional-style wood barns, and redwood water tanks. All such structures should be sited, painted, and/or screened to be unobtrusive. (See Recommendation SR-10.7 for additional design criteria that might be developed.)
- C. 3.2.5.C.1: <u>Highway One Facilities Public Highway Facilities</u>: Add temporary landslide materials storage in the form of berms and roadside stockpiles pursuant to a pullout management plan as a use that may be allowed in the viewshed (see Recommendation LU-13.12).
- D. Add a reference to follow the design standards of Recommendation LU-13.2.
- E. Delete the requirement for public agency signs to be framed with unpainted redwood and add the following: Operational, safety and informational signs and markers shall be limited to the minimum necessary, and shall be of the minimum size needed to effectuate their intended purpose. Informational resource signs, including historic bridge signs and coastal access signs, shall be of a size and design that is subordinate to and appropriate for their setting. Large-scale roadside signs, such as those that announce State Parks, National Forest boundaries, and major institutions and commercial visitor-serving developments may be allowed in the same manner as other highway signs. Public agency and other such permanent monument signs shall be of a design complementary to the rural setting and character of Big Sur, with preference for natural materials. Generally, such signs should be constructed of natural local rock masonry, unpainted redwood, or framed with unpainted redwood.
- F. 3.2.5.C.2: <u>Highway 1 Improvements: Private Highway Improvements</u>: Add the following design criteria:
 - 1. Driveway entry paving should be no wider than 12 feet.

- Fences should be standard open-slat redwood or multi-strand wire range fencing less than four feet high. Other fence designs, which are open enough so as not to block public views and are in keeping with the scenic character of the community, may be considered.
- 3. Entry gates should be of a simple, traditional design.
- 4. Multiple aluminum urban-style mailbox structures, walls other than native stone; walls over four feet; walls or fences that block public views or detract from the rustic character of the Big Sur Coast, neon commercial lighting; residential street lighting; and standard suburban, curbs, gutters, and sidewalks should not be permitted.
- G. 3.2.5.D: <u>Utilities:</u> Add additional criteria for lighting as follows: No floodlights are permitted that are visible from Highway One. Residential and commercial lighting, as well as public agency security lighting, must be installed so that all fixed light sources are shielded from critical viewshed vantage points. Interior-lit outdoor signs are generally not appropriate within this area. Permitted signs may be illuminated by indirect or reflected lighting. Interior-lit commercial signs placed in the window at a place of business may be allowed. In addition to having a shielded light source, landscape spotlights must be the minimum necessary for the intended security purpose, and must not be directed at the marine environment. The County should work with landowners cooperatively to encourage replacement on lighting inconsistent with these standards. These limitations do not apply to official aids to navigation, nor to temporary traffic safety flashers or signals.
- H. 3.2.5.E. State Park Parking: Revise as follows: In order to provide for parking and other low intensity support facilities for the State of California system of parks on the Big Sur coast, flexibility in the basic viewshed policy may be permitted to allow use of excavating, berming, and indigenous plant screening at the mouth of Soberanes Point-Creek canyon, east of Highway 1 at Garrapata Beach, Little Sur River Mouth, and at the former Point Sur Lighthouse Naval Facility, in the vicinity of the Andrew Molera State Park ranch house complex, in the vicinity of Big Sur Lodge and the Multi-Agency Facility in Pfeiffer-Big Sur State Park, at McWay Canyon in Julia Pfeiffer Burns State Park, at John Little State Reserve, and east of the Highway 1 bridge at Limekiln State Park, if no environmentally suitable site is available that meets the critical viewshed criteria. Other new parking facilities shall be provided at off-highway locations rather than on the Highway One shoulder. The creation of new parking lots between Highway One and the ocean shall be avoided wherever possible to avoid detracting from scenic coastal views. This policy shall also apply to new units within the system that may be opened to the public. Parking and support facilities existing at current facilities shall be removed from Highway One whenever the necessary off-highway parking is provided, sufficient to accommodate all the uses that the parking serves, consistent with turnout policies [see Recommendation LU-13.2] and programs [see Recommendation LU-13.12], and done in a manner that does not require excessive signing [see Recommendations LU-13.14 and LU-13.15]. New off-highway facilities shall be designed, to conform to viewshed policy 3.2.4.A.3-if located-in the critical viewshed (except for necessary entrance ways, which cannot be hidden from Highway One), and to policy 3.2.4 if located outside the critical viewshed. Existing facilities shall be brought into conformance to the greatest extent possible. Land acquired for viewshed protection shall not be

developed for parking or visitor serving facilities. Parking facilities for Soberanes Point, Garrapata Beach, and Little Sur River Mouth-McWay Canyon shall be located on the east side of Highway One and be completely out of the view of the Highway through the use of excavation, indigenous forestation screening with native vegetation and berming techniques which shall obscure all vehicles and facilities. Restroom facilities shall be located with the parking facilities. For public safety at Soberanes Point, Garrapata Beach, Little Sur River Mouth, and any new State Park units located on the east—west side of Highway One, pedestrian underpasses connecting the parking and beach areas are highly desirable. Parking shall be provided for a maximum of 75 vehicles at these facilities.

- I. 3.2.5.F & G: Rocky Point Area and Otter Cove vacant parcels: Clarify that the first paragraph in each of these sections applies only to development of vacant parcels, while the second paragraph in each of these sections (additional standards) applies to both vacant parcels and developed parcels. Furthermore, additional development on already developed parcels must also follow the criteria listed below in this recommendation for replacements and structural additions and alterations and that these criteria override the standards in the second paragraphs of these two subsections if there are conflicts.
- J. Replacements: Add a new subsection [and revise or delete Big Sur Coast Land Use Plan Policy 3.2.3.A.7 accordingly] as follows: Replacement structures lost in fire or natural disaster within the critical viewshed shall be permitted on the original location on the site, provided no other less visible portion of the site is acceptable to the property owner, and provided the replacement does not increase the visibility of the structure beyond that of the original structure. Landowners will be encouraged to resite such replacement structures out of critical viewshed or to redesign such replacement structures to be less visible.
- K. When a structure within the critical viewshed is voluntarily replaced or structural alterations of more than 50% of the structure (exclusive of permitted additions) are proposed, the replacement or altered structure shall conform to the critical viewshed policy (e.g., by resiting, redesign, or similar means); provided however, this shall not be construed as precluding replacement of an existing structure within the critical viewshed if a less visible alternative is not feasible. Voluntarily replaced or altered structures shall not be more visible than the structure replaced or that has been altered. The Director of Planning and Building Inspection may require that a termite inspector, registered engineer or other professional(s) acceptable to the Director be retained at the applicant's expense to certify that portions of the structure which the plans show as proposed to remain are in fact structurally sound and that it will not be necessary to alter such portions of the structure during the course of construction.
- L. Structural additions and alterations: Add a new subsection [and revise or delete Revise Big Sur Coast Land Use Plan Policy 3.2.3.A.7 accordingly] as follows: Landowners will be encouraged to resite structures out of the critical viewshed as an alternative to proposing additions to (or additional development on parcels with) structures that are visible in the Critical Viewshed or will be encouraged to reduce the visibility of existing structures as part of applications for additions. Additions to existing structures visible in the Critical Viewshed may be allowed, provided that the original structure(s) were constructed prior to April 9,

1986 (the certification date of the Big Sur Coast LUP) or conform to an approved permit and provided the addition itself complies with the LCP standards and does not increase visibility. That is, as seen in profile, the addition will not, in aggregate, result in any greater amount of development visible in public views as seen from the defined critical viewshed vantage points (measured as apparent surface area of visible development; thus, new visible structures that merely profile against existing visible structures would not increase the area within the apparent developed profile). Additional structures on the same parcel, or parcels resubdivided or combined to facilitate such additions must meet the same criteria, considering all visible development in aggregate. For purposes of applying this policy, planted non-native landscaping shall be disregarded (unless its retention and maintenance is specifically required under the terms of a coastal development permit). Additions not in conformance with this section will not be permitted. Short-term visual impacts during construction or installation may be discounted.

- M. <u>Demolitions</u>: Add a new subsection as follows: Demolition of buildings and restoration of the scenic quality of an area are allowed in the critical viewshed.
- N. Correspondingly, clarify *County Code* Sections 20.06.1260, 20.68.040.A, and 20.68.040.C that allow some additions to legal non-conforming structures to specify that the structural change must also conform to the *Big Sur Coast Land Use Plan* critical viewshed policies.

SR-10.2 Clarify critical viewshed vantage points and improve County staking procedures: Add an action to revise "County-wide Staking and Flagging Criteria" to require better visual representations of proposed development including project changes that may occur during development review. Require evaluations of visibility be made on clear days from a representative and comprehensive sample of all public viewpoints contained in the critical viewshed definition (Big Sur Coast Land Use Plan policy 3.2.2.1) that have a line of sight to the proposed project. For sites where staking and flagging may not be adequate to determine visibility, netting or other measures may be required. Incorporate these criteria in the local coastal program. Clarify County Code Section 20.145.030.A.1.a's Critical Viewshed determination as follows: Visibility from Highway 1 shoulders, turnouts and pullouts will be determined while standing on a graded surface or other roadside areas, such as compacted berms, that show evidence of consistent public use.

SR-10.3 Increase enforcement of LCP Viewshed Protections: Add an action to prepare an enforcement program component to address unauthorized development in the critical viewshed and implement Big Sur Coast Land Use Plan policy 3.2.3.B.1 (requiring that any portion of the structure that ultimately becomes visible in the critical viewshed must be removed). Elements of such a program could include requiring bonds in certain cases, inspecting developments periodically throughout the construction period and immediately halting inappropriate construction, and requiring greater penalties for those in violation of viewshed policies, with monies contributed to a coastal viewshed restoration fund.

SR-10-4 Regulate tree removal and planting in critical viewshed: Add the following qualifier to *County Code* Section 20.145.060.A.1.c, regarding tree cutting exemptions: except where this would result in the exposure of structures in the critical viewshed. Add a requirement that in approving new

development, the County modify project plans and apply conditions so as to avoid, over the long run, the growth or removal of vegetation that would detract from public views.

SR-10.5 Require coastal permits for improvements in critical viewshed: Define the critical viewshed in the *Big Sur Coast Land Use Plan* as "highly scenic." Revise *County Code* Sections 20.70.120.A and B to not exempt improvements to structures, including landscaping, in highly scenic areas from coastal permit requirements, pursuant to *California Code of Regulations* Sections 13250 and 13253.

SR-10.6 Ensure design review of fences: Add to *County Code* Section 20.44.020 that design permits are required for fences in the Critical Viewshed along the Big Sur Coast (other than standard open-slat split redwood fencing less than 4 feet in height or multi-strand wire range fencing less than 4 feet in height).

SR-10.7 Adopt design criteria for Rural Service Centers: Add an action to prepare design and siting criteria for Big Sur Valley, Lucia, Gorda, Pacific Valley, Rocky Point Restaurant, Big Sur Inn, and Coast Gallery in conformance with Policies 5.4.3.C.2, 5.4.3.E.2, and 5.4.3.L.4. Such design controls should be developed with local community input and should serve to protect the community character of these areas (see Recommendation for Issue LU-4: Gorda Rural Community Center). Additional design criteria may also be prepared for essential ranching structures.

SR-10.8 Minimize visible development in Rural Community Centers: Amend Big Sur Coast Land Use Plan Policy 5.4.3.L.4 concerning minimizing visual impacts through design in the Big Sur Valley to require further minimizing visibility where appropriate as follows: However, this policy shall not be interpreted to mean that maximum structural exposure is always desirable. If site evaluation determines that viewshed protection is better achieved through minimizing structural visibility, then appropriate siting, design, and/or screening techniques shall be required.

SR-10.9 Allow TDCs for remaining vacant exception area parcels: Delete last sentence of *County Code* Section 20.64.190.040.1 ("If a parcel is a buildable parcel upon which a residential building site could be developed under the Big Sur Coast LCP's detailed exception policies, it cannot qualify as a donor site.")

SR-10.10 Do not require covered parking in critical viewshed: Add to *County Code* Section 20.58.050.F requiring covered parking the following: An exception to this requirement may be granted if it furthers protection of the Big Sur critical viewshed.

SR-10.11 Manage Proposition 70 lands: Add an action to establish a program to manage, in perpetuity, properties acquired through use of Proposition 70 funding. Such a program could include contracts with local land trusts, citizen organizations, adjacent landowners or other public agencies to perform the necessary management activities, subject to County oversight. The County should also develop and implement a monitoring and management mechanism to ensure that these lands are properly protected and provide for public access opportunities (subject to public access management plans) where appropriate.

⁹ Pursuant to California Code of Regulations Sections 13250b.1, 13253.b.1 and 13253.b.2.

SR-10.12 Support other methods to protect viewshed: Add an action to support and participate in initiatives to identify: TDC receiver sites, funding sources for viewshed protection, measures to protect remaining viewshed parcels, restoration opportunities, and community programs to retrofit or eliminate lighting visible in the Big Sur critical viewshed to the extent that resources allow.

Issue SR-11: Carmel Area Community Character

SR-11.1 Prepare design guidelines to protect community character around Carmel-by-the-Sea: Add an action to prepare and implement design guidelines for the neighborhoods in the unincorporated areas adjacent to the City of Carmel-by-the-Sea to parallel its Design Traditions Report and certified LUP. Guidelines should address lot coverage, development scale, tree planting and removal, exterior design and materials, hardscaping/softscaping issues, etc. Specific development guidelines should be developed for particularly sensitive areas. Guidelines should apply to public projects as well, including street improvements.

Chapter 8 - Archaeological, Cultural & Paleontological Resources

AR.1 Incorporate Native American monitors in archaeological surveys: Revise County Code Sections 20.144.110.B 4, 20.147.080 B.4, 20.146.090.B.4, and 20.145.120.B.4 describing preparation of archaeological survey reports, to add: "...Surveys that involve any excavation or earth disturbance shall be conducted with an appropriate Native American cultural resource monitor selected consistent with NAHC guidelines."

AR.2 Incorporate Native American monitors in environmental assessments: Revise County Code Sections 20.144.110.C.1, 20.147.080.C.1, 20.146.090.C.1, and 20.145.120.C.1 on requirements for environmental assessments to add: "...Where survey reports indicate the presence of prehistoric or ethnohistoric Native American cultural resources, the Environmental Assessment shall be conducted in consultation with a qualified Native American cultural resource monitor selected in compliance with NAHC guidelines."

AR.3 Prepare mitigation plans for impacted archaeological sites: Revise County Code Sections 20.147.080.D.3, 20.145.120.D3; 20.144.110.D3 and 20.146.090.D4 and D5 as follows:

"Where construction on or construction impacts to an identified archaeological or paleontological site cannot be avoided, as verified in the archaeological report prepared for the project, a mitigation plan shall be required for the project. Prior to the application being considered complete, this mitigation plan shall be required by, submitted to and approved by the County. The plan shall be prepared at the applicant's expense by a qualified archaeologist, either on the County's list of archaeological consultants or a member of the Society of Professional Archaeologists. Included in the plan shall be recommended preservation measures in accordance with the guidelines of the State Office of Historic Preservation and the State of California Native American Heritage Commission. The consulting archaeologist shall file the report with the State Office of Historic Preservation and to the Regional Historical Resources Information Center. The mitigation plan shall be developed in consultation with a qualified Native American cultural resource monitor selected in compliance with NAHC guidelines.

Where a mitigation plan has been prepared for a proposed development, a condition of project approval shall be that:

- A. The preservation measures, and any additional mitigation identified during permit review, be undertaken and completed prior to the issuance of building or grading permits; or
- B. Where appropriate according to the recommendations contained in the mitigation plan, the preservation measures shall be undertaken concurrent with grading or other soil-disturbing activities and shall be undertaken in accordance with the mitigation plan, as a condition of the grading or building permit. Onsite monitoring by a qualified archaeologist(s) and appropriate Native American consultant of all grading or other soil-disturbance shall be required. Native American cultural resource monitors shall be selected in conformance with the NAHC "Guidelines for Monitors/Consultants of Native American Cultural, religious and burial sites".
- C. The results of the preservation activities shall be compiled into a final report prepared by the archaeologist and submitted to the County and Regional Historical Resources Information Center prior to the issuance of building or grading permits. Two copies of the report shall be submitted. All artifacts discovered in connection with any cultural resource shall be recorded in the manner required by the State of California. All site records, field notes, maps, photographs, notes by monitors, reports by consulting archaeologists, and other records resulting from the conduct of any cultural resource review shall be catalogued in accordance with the U.S. Department of Interior Guidelines.

AR.4 Avoid disturbing archaeological sites where at all possible: Replace *County Code* Sections 20.144.110.D.1, 20.145.120.D.1, 20.146.090.D.1, and 20.147.080.D.1 with the following General Development Standards:

- A. Where significant archaeological, paleontological or cultural resources are identified in consultation with the State Historic Preservation Officer and the Native American Heritage Commission all available measures including purchase of archaeological easements, dedication to the County, tax relief and purchase of development rights, etc. shall be considered to avoid impacts on significant archaeological and other sensitive cultural resources.
- B. When an archaeological or cultural resource site has religious significance, emphasis should be placed on preserving the entire site. Where the site is of known regional significance, consideration shall be given to nominating the site to the National Register and preserving it.
 - Development proposed on parcels with an identified archaeological or other sensitive cultural resources shall be designed and located to avoid development on or impacts to the resource site. All available measures shall be explored to avoid the site including, but not limited to alternative siting or location and reduction of project size.
 - 2. When sufficient planning flexibility does not permit avoiding construction on paleontological, archaeological or other types of cultural sites, impacts of development on resources will be mitigated to the maximum extent feasible. Mitigation shall be

designed consistent with guidelines of the State Office of Historic Preservation and the State of California Native American Heritage Commission and where appropriate in consultation with qualified Native American cultural resource monitors.

AR.5 Limit access to archaeological sites: Add to Big Sur Coastal Implementation *County Code* Section 20.145.120 a new subsection D.5 and to North Monterey County Coastal Implementation Section 20.144-110 a new subsection D.4 and revise County Code Section 20.147.080.D5 (for Del Monte Forest) and 20.146.090.E2 (for Carmel Area) to provide the following:

- A. Off road vehicle use, unauthorized collecting of artifacts and other activities that could destroy or damage archaeological or cultural sites shall be prohibited.
- B. Public access to or over known archaeological, paleontological or significant cultural sites shall be limited to designated access easements as recommended by a qualified archaeologist in consultation with qualified Native American cultural resource monitors where applicable and approved by the Director of Planning and shall be concentrated in areas where supervision and interpretive facilities are available.

AR.6 Control public access over known sites: Revise County Code Section 20.146.090.E.2 as follows: Public access to or over known archaeological, paleontological or cultural sites shall be limited to designated access easements as recommended by a qualified archaeologist in consultation with qualified Native American cultural resource monitors where applicable and approved by the Director of Planning and Building Inspection and shall be concentrated in areas where supervision and interpretive facilities are available.

AR.7 Require archaeological reports for subdivisions: Add to *County Code* Section 20.144.110.B1 (for North County) and Section 20.145.120.B1 (for Big Sur) the following new subsection:

Subsection (e) all new subdivisions.

AR.8 Require archaeological findings: Add an action to develop a procedure for including an archaeological finding for all coastal permits issued in archaeologically sensitive areas. Even if the survey requirement is waived or if there is no archaeological condition, a brief finding should state the basis for this.