42. Please quantify what is the MAXIMUM amount (in PERCENTAGE of existing) of this resource that can be LOST and still be restored.

43. Please name each EXPERT who prepared and reviewed this impact.

44. Please cite each expert's training, and peer reviewed, validly published articles specific to this impact.

45. Please provide AVOIDANCE MITIGATION for this impact.

46. Please provide the reverse of this impact as Mitigation.

47. Please provide an ALTERNATIVE which avoids this impact.

48. Please list all other studies initiated by the applicant related to this impact, including subject matter breadth, author's names and dates and where they can be examined.

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* 282 - CALIFORNIA SEA OTTER STATE GAME REFUGE.

The Document appears to have ignored this potentially significant impact. Please carefully analyze and disclose the project's potential impacts on California Sea Otter State Game Refuge.

If you claim the document contains proof of no-significant-impact for this impact please explicitly state the page number and paragraph.

This is a protected marine area along the Big Sur Coast. Aircraft are prohibited from flying lower than 1000 feet without a permit. (?)

QUANTIFICATION OF BASELINES AND IMPACTS:

This impact appears to be potentially significant.

1a. Please clearly identify by NAME and describe each of the objective (non-subjective) CRITERIA used to determine the impact significance on California Sea Otter State Game Refuge.

1b. If no objective criteria are used please state that clearly.

2. If no objective criteria are used please clearly describe how the threshold of significance chosen is scientifically testable, repeatable, falsifiable, credible and defensible.

3a. Please state the NAME of the MEASUREMENT UNITS (numbers) used to determine the significance for EACH criteria.

3b. Please quote the definition used.

4. If no measurement units are used please state that clearly.

5a. Please state the METHOD of measurement used to determine the significance for each criteria.

5b. If no method of measurement was used please state that clearly for each criteria and explain thoroughly how the data was obtained.

6. Please quantify the existing or current BASELINE measurement (level) for each criteria.

7. Please state its MARGIN of ERROR or a confidence level and whether the MARGIN of ERROR is measured or assumed.

8. Please state the VARIANCE or fluctuation, assumed or expected for each of the criteria listed above.

9. Please state the variance's MARGINS of ERROR or confidence level.

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11. If an average is used, please state which kind of average.

12. Please state the most extreme values which could be encountered.

13. Please describe and quantify which criteria and ASSUMPTIONS the Impact Significance predictions are most SENSITIVE.

14. Please analyze and quantify how sensitive those predictions are to reasonably foreseeable varying criteria and assumptions.

15. Please provide a graph of HISTORICAL measurements.

16. Please quantify the length of time this impact would last.

17. Please quantify how this impact would vary over that time period. Please use a graph for clarity.

18. Please state the THRESHOLD number at which the impact changes from significant to less-than-significant and the clear criteria and rationale for that number.

19. Please provide the MARGIN of ERROR used (in percent and absolute amount) for measuring the Significance THRESHOLD Level.

20s. Please state whether this MARGIN of ERROR is measured or assumed.

20b. If no margin of error is used please state that clearly.

21. Please disclose all threshold numbers at which the impact changes from LEGAL to ILLEGAL for ALL related and potentially relevant local, state and federal laws.

22. Some Impacts increase in a LINEAR RELATIONSHIP with increasing input, other impacts have complex non-linear relationships. Please provide a graph that shows whether the relationship is linear or otherwise - when at and near the significance threshold
values.

23. Please quantify the total PERCENT MAXIMUM CHANGE, to which the IMPACT could raise or lower the baseline number and its MARGIN of ERROR or confidence levels.

24. Please state whether the MARGIN of ERROR is measured or assumed.

25. Please state whether this total PERCENT maximum change is an AVERAGE amount, a worst case expected or a best case expected.

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31. Please quantify all potential CUMULATIVE impacts related to this one.

32. Please list, describe and quantify all potential compound and synergetic impacts.

33. Please list, describe and quantify all Construction impacts related to this one.

34. Please list, describe and quantify all Growth impacts related to this one.

35. Please list, describe and quantify all Indirect Impacts related to this one.

36. Please list and quantify every OTHER IMPACT - this impact or mitigation could increase.

37. Please describe the EXISTING USABLE limit of the RESOURCE this impact affects.

38. Please state the METHOD of measurement used to determine the limit of the RESOURCE this impact affects.

39. Please describe the MARGIN of ERROR or confidence level used to measure how much of this resource is left.

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42. Please quantify what is the MAXIMUM amount (in PERCENTAGE of existing) of this resource that can be LOST and still be restored.

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46. Please provide the reverse of this impact as Mitigation.

47. Please provide an ALTERNATIVE which avoids this impact.

48. Please list all other studies initiated by the applicant related to this impact, including subject matter breadth, author's names and dates and where they can be examined.

-

* 283 - HIGHWAY ONE AS A SCENIC HIGHWAY.

The Document appears to have ignored this potentially significant impact. Please carefully analyze and disclose the project's potential impacts on Highway One as a Scenic Highway.

If you claim the document contains proof of no-significant-impact for this impact please explicitly state the page number and paragraph.

State Highway Code Sec 261 states the Scenic highways "require continuing and careful coordination of planning, design, construction, and regulation of land use and development, by state and local agencies as appropriate, to protect the social and
economic values provided by the state's scenic resources."

Highway One is an officially designated Scenic Highway.

QUANTIFICATION OF BASELINES AND IMPACTS:

This impact appears to be potentially significant.

1a. Please clearly identify by NAME and describe each of the objective (non-subjective) CRITERIA used to determine the impact significance on Highway One as a Scenic Highway.

1b. If no objective criteria are used please state that clearly.

2. If no objective criteria are used please clearly describe how the threshold of significance chosen is scientifically testable, repeatable, falsifiable, credible and defensible.

3a. Please state the NAME of the MEASUREMENT UNITS (numbers) used to determine the significance for EACH criteria.

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32. Please list, describe and quantify all potential compound and synergetic impacts.

33. Please list, describe and quantify all Construction impacts related to this one.

34. Please list, describe and quantify all Growth impacts related to this one.

35. Please list, describe and quantify all Indirect Impacts related to this one.

36. Please list and quantify every OTHER IMPACT - this impact or mitigation could increase.

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41. Please quantify what is the maximum amount (in AMOUNT of existing) of this resource that can be lost and still be restored.

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45. Please provide AVOIDANCE MITIGATION for this impact.

46. Please provide the reverse of this impact as Mitigation.

47. Please provide an ALTERNATIVE which avoids this impact.

48. Please list all other studies initiated by the applicant related to this impact, including subject matter breadth, author's names and dates and where they can be examined.

* 284 - HIGHWAY 68 AS A SCENIC HIGHWAY.

The Document appears to have ignored this potentially significant impact. Please carefully analyze and disclose the project's potential impacts on Highway 68 as a Scenic Highway.

If you claim the document contains proof of no-significant-impact for this impact please explicitly state the page number and paragraph.

State Highway Code Sec 261 states the Scenic highways "require continuing and careful coordination of planning, design, construction, and regulation of land use and development, by state and local agencies as appropriate, to protect the social and
economic values provided by the state's scenic resources."

Highway 68 is an officially designated Scenic Highway.

QUANTIFICATION OF BASELINES AND IMPACTS:

This impact appears to be potentially significant.

1a. Please clearly identify by NAME and describe each of the objective (non-subjective) CRITERIA used to determine the impact significance on Highway 68 as a Scenic Highway.

1b. If no objective criteria are used please state that clearly.

2. If no objective criteria are used please clearly describe how the threshold of significance chosen is scientifically testable, repeatable, falsifiable, credible and defensible.

3a. Please state the NAME of the MEASUREMENT UNITS (numbers) used to determine the significance for EACH criteria.

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12. Please state the most extreme values which could be encountered.

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46. Please provide the reverse of this impact as Mitigation.

47. Please provide an ALTERNATIVE which avoids this impact.

48. Please list all other studies initiated by the applicant related to this impact, including subject matter breadth, author's names and dates and where they can be examined.

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* 285 - SUBDIVISIONS-RESIDENTIAL

The Document appears to have ignored this potentially significant impact. Please carefully analyze and disclose the potential impacts of Subdivisions-Residential.

If you claim the document contains proof of no-significant-impact for this impact please explicitly state the page number and paragraph.

This project will increase the amount of water use, groundwater or surface water pumping, impermeable surfaces, asphalt road surfaces, fencing, lighting and noise.

These will cause potentially significant environmental impacts including increased Carmel River dewatering which causes loss of habitat for listed species and has caused deaths of listed species, reduction of groundwater recharge, increased stormwater
runoff, increased soil erosion, increased oil-air pollution, increased oil-water pollution, prevention of migration or immigration of wildlife which causes loss of habitat for listed species and can cause deaths of listed species.

Visual Preference Survey Results In early 1993, Portland set out to find out what kind of neighborhoods their residents preferred (Picture This...The Results of a Visual Preference Survey, A Nelessen Associates, Princeton NJ & Seattle WA, 206-441-7579,
June 1993). At 34 widely publicized public meetings, 3000 adults and 1,500 children viewed 240 slides of urban neighborhoods and shopping areas, and gave their gut responses to the scenes on a scale of -10 ("ugh," "awful") to +10 ("beautiful," "nice").
The people spoke...what did they say?

Let's look at a scene they strongly liked: a narrow tree-lined residential street, with wide sidewalks, mature trees, small bungalows mixed with articulated, not monolithic. No parking is visible except at the curb.

Another: small parks and public spaces with trees, other plantings, attractive walks, seating, tables, and maybe fountains and ponds.

Some scenes repelled them: Single family dwellings dominated by wide garage doors and driveways, with wide streets, no sidewalks and few trees.

There was a remarkable consensus. People don't like strip commercial development or large parking lots, either in shopping areas or near housing. They have a strong preference for pedestrian-oriented mixed-use development at transit station and along
main streets, with higher densities in central cities.

In residential neighborhoods, viewers preferred small vernacular bungalows with pedestrian-oriented neighborhood centers. Residential densities of 25 units/acre or higher were quite acceptable if the buildings were articulated and built with quality and
beauty. They loved small parks and open spaces. These results are helping to turn around 50 years of zoning policy which prohibits much of what people really prefer.

Housing Infrastructure Costs Each house built in the U.S. in 1998 needs about $25,000 in infrastructure including, roads, electric lines, phone lines, water pipes, sewerage pipes. - Environmental News Network, June 15, 1999

QUANTIFICATION OF BASELINES AND IMPACTS:

This impact appears to be potentially significant.

1a. Please clearly identify by NAME and describe each of the objective (non-subjective) CRITERIA used to determine the impact significance of Subdivisions-Residential.

1b. If no objective criteria are used please state that clearly.

2. If no objective criteria are used please clearly describe how the threshold of significance chosen is scientifically testable, repeatable, falsifiable, credible and defensible.

3a. Please state the NAME of the MEASUREMENT UNITS (numbers) used to determine the significance for EACH criteria.

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8. Please state the VARIANCE or fluctuation, assumed or expected for each of the criteria listed above.

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16. Please quantify the length of time this impact would last.

17. Please quantify how this impact would vary over that time period. Please use a graph for clarity.

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36. Please list and quantify every OTHER IMPACT - this impact or mitigation could increase.

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38. Please state the METHOD of measurement used to determine the limit of the RESOURCE this impact affects.

39. Please describe the MARGIN of ERROR or confidence level used to measure how much of this resource is left.

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41. Please quantify what is the maximum amount (in AMOUNT of existing) of this resource that can be lost and still be restored.

42. Please quantify what is the MAXIMUM amount (in PERCENTAGE of existing) of this resource that can be LOST and still be restored.

43. Please name each EXPERT who prepared and reviewed this impact.

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46. Please provide the reverse of this impact as Miligation.

47. Please provide an ALTERNATIVE which avoids this impact.

48. Please list all other studies initiated by the applicant related to this impact, including subject matter breadth, author's names and dates and where they can be examined.

* 286 - SWIMMING POOLS.

The Document appears to have ignored this potentially significant Impact. Please carefully analyze and disclose the potential impacts of Swimming Pools.

If you claim the document contains proof of no-significant-impact for this impact please explicitly state the page number and paragraph.

Swimming Pools have adverse environmental impacts including high water use, chlorine use, chlorine air and water pollution runoff.

"Swimming pools evaporate about 2 inches of water per week." Bruce Dormody, Rancho San Clemente, personal communication

QUANTIFICATION OF BASELINES AND IMPACTS:

This impact appears to be potentially significant.

1a. Please clearly identify by NAME and describe each of the objective (non-subjective) CRITERIA used to determine the impact significance of Swimming Pools.

1b. If no objective criteria are used please state that clearly.

2. If no objective criteria are used please clearly describe how the threshold of significance chosen is scientifically testable, repeatable, falsifiable, credible and defensible.

3a. Please state the NAME of the MEASUREMENT UNITS (numbers) used to determine the significance for EACH criteria.

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41. Please quantify what is the maximum amount (in AMOUNT of existing) of this resource that can be lost and still be restored.

42. Please quantify what is the MAXIMUM amount (in PERCENTAGE of existing) of this resource that can be LOST and still be restored.

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48. Please list all other studies initiated by the applicant related to this impact, including subject matter breadth, author's names and dates and where they can be examined.

* 287 - SOIL ECOSYSTEM.

The Document appears to have ignored this potentially significant impact. Please carefully analyze and disclose the potential impacts of Soil Ecosystem.

If you claim the document contains proof of no-significant-impact for this impact please explicitly state the page number and paragraph.

"We have to stop treating soil like dirt." Dave Brower, LtMT, LtRR, 1995

"Soil is one of the least appreciated parts of our life-support system." The consequences would be dire indeed if human activities were to seriously undermine the soil's ability to recycle nutrients - a process of recycling that depends on a myriad of
bacteria, fungi and insects." OSF pg 242

"Moles, Badgers and Rabbits dig impressive branching tunnel apartments." Scientific American, Dec 1998, p 120

Each acre of soil can contain some two tons of microorganisms including Molds (2000 pounds), Bacteria (1000 pounds), Actinomycetes (1000 pounds), Protozoa (200 pounds), Algae (100 pounds), Yeasts (100 pounds) and Viruses. Other forms of life in soil
include plant roots, earthworms, mites and insects.
Encyclopedia of Biological Sciences, Gray, 1961 McGraw-Hill

There are billions of microorganisms in a single teaspoon of topsoil. -Audubon, Almanac of the Environment, 1994

As a generality Soil contains ~ 45% minerals, 20-30$ air, 20-30% water and 5% organic material.

"The presence of moisture in soil is essential for the development of microorganisms. Most mineral soils display optimum microbial activity at moisture levels close to 60% saturation." Encyclopedia of Biological Sciences, Gray, 1961 McGraw-Hill

By contributing to formation of humus, microorganisms increase soil's drought resistance, base exchange capacity and protection of the microorganisms themselves from chemical pesticides. Ibid

QUANTIFICATION OF BASELINES AND IMPACTS:

This impact appears to be potentially significant.

1a. Please clearly identify by NAME and describe each of the objective (non-subjective) CRITERIA used to determine the impact significance of Soil Ecosystem.

1b. If no objective criteria are used please state that clearly.

2. If no objective criteria are used please clearly describe how the threshold of significance chosen is scientifically testable, repeatable, falsifiable, credible and defensible.

3a. Please state the NAME of the MEASUREMENT UNITS (numbers) used to determine the significance for EACH criteria.

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5b. If no method of measurement was used please state that clearly for each criteria and explain thoroughly how the data was obtained.

6. Please quantify the existing or current BASELINE measurement (level) for each criteria.

7. Please state its MARGIN of ERROR or a confidence level and whether the MARGIN of ERROR is measured or assumed.

8. Please state the VARIANCE or fluctuation, assumed or expected for each of the criteria listed above.

9. Please state the variance's MARGINS of ERROR or confidence level.

10. Please state whether this MARGIN of ERROR is measured or assumed.

11. If an average is used, please state which kind of average.

12. Please state the most extreme values which could be encountered.

13. Please describe and quantify which criteria and ASSUMPTIONS the Impact Significance predictions are most SENSITIVE.

14. Please analyze and quantify how sensitive those predictions are to reasonably foreseeable varying criteria and assumptions.

15. Please provide a graph of HISTORICAL measurements.

16. Please quantify the length of time this impact would last.

17. Please quantify how this impact would vary over that time period. Please use a graph for clarity.

18. Please state the THRESHOLD number at which the impact changes from significant to less-than-significant and the clear criteria and rationale for that number.

19. Please provide the MARGIN of ERROR used (in percent and absolute amount) for measuring the Significance THRESHOLD Level.

20s. Please state whether this MARGIN of ERROR is measured or assumed.

20b. If no margin of error is used please state that clearly.

21. Please disclose all threshold numbers at which the impact changes from LEGAL to ILLEGAL for ALL related and potentially relevant local, state and federal laws.

22. Some Impacts increase in a LINEAR RELATIONSHIP with increasing input, other impacts have complex non-linear relationships. Please provide a graph that shows whether the relationship is linear or otherwise - when at and near the significance threshold
values.

23. Please quantify the total PERCENT MAXIMUM CHANGE, to which the IMPACT could raise or lower the baseline number and its MARGIN of ERROR or confidence levels.

24. Please state whether the MARGIN of ERROR is measured or assumed.

25. Please state whether this total PERCENT maximum change is an AVERAGE amount, a worst case expected or a best case expected.

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39. Please describe the MARGIN of ERROR or confidence level used to measure how much of this resource is left.

40. Please state whether the margin of error is measured or assumed.

41. Please quantify what is the maximum amount (in AMOUNT of existing) of this resource that can be lost and still be restored.

42. Please quantify what is the MAXIMUM amount (in PERCENTAGE of existing) of this resource that can be LOST and still be restored.

43. Please name each EXPERT who prepared and reviewed this impact.

44. Please cite each expert's training, and peer reviewed, validly published articles specific to this impact.

45. Please provide AVOIDANCE MITIGATION for this impact.

46. Please provide the reverse of this Impact as Mitigation.

47. Please provide an ALTERNATIVE which avoids this impact.

48. Please list all other studies initiated by the applicant related to this impact, including subject matter breadth, author's names and dates and where they can be examined.

* 288 - SOIL STRUCTURE.

The Document appears to have ignored this potentially feasible Mitigation. Please carefully analyze and disclose the potential benefits of Soil Structure.

One can place all the native ingredients of a soil on the ground, but there is no evidence that this replaces a former soil structure.

* 289 - SOIL REMOVAL.

The Document appears to have ignored this potentially significant Impact. Please carefully analyze and disclose the potential impacts of Soil Removal.

If you claim the document contains proof of no-significant-impact for this impact please explicitly state the page number and paragraph.

Removing soil can permanently change or destroy the ability of land to support plant life. Some soils take a million years or more to create.

A single truck can carry about 10 cubic yards of soil or rock. Every 100 cubic yards of material removed requires at least 10 round trip truck trips - or 20 one-way truck trips. This does not include the heavy vehicle trips required for the equipment to
load the trucks nor the support vehicles used by the employees.

QUANTIFICATION OF BASELINES AND IMPACTS:

This impact appears to be potentially significant.

1a. Please clearly identify by NAME and describe each of the objective (non-subjective) CRITERIA used to determine the impact significance of Soil Removal.

1b. If no objective criteria are used please state that clearly.

2. If no objective criteria are used please clearly describe how the threshold of significance chosen is scientifically testable, repeatable, falsifiable, credible and defensible.

3a. Please state the NAME of the MEASUREMENT UNITS (numbers) used to determine the significance for EACH criteria.

3b. Please quote the definition used.

4. If no measurement units are used please state that clearly.

5a. Please state the METHOD of measurement used to determine the significance for each criteria.

5b. If no method of measurement was used please state that clearly for each criteria and explain thoroughly how the data was obtained.

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13. Please describe and quantify which criteria and ASSUMPTIONS the Impact Significance predictions are most SENSITIVE.

14. Please analyze and quantify how sensitive those predictions are to reasonably foreseeable varying criteria and assumptions.

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17. Please quantify how this impact would vary over that time period. Please use a graph for clarity.

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46. Please provide the reverse of this impact as Mitigation.

47. Please provide an ALTERNATIVE which avoids this impact.

48. Please list all other studies initiated by the applicant related to this impact, including subject matter breadth, author's names and dates and where they can be examined.

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* 290 - CONSTRUCTION CAUSED LOSS OF TOPSOIL.

The Document appears to have ignored this potentially significant impact. Please carefully analyze and disclose the potential impacts of Construction Caused Loss of Topsoil.

If you claim the document contains proof of no-significant-impact for this impact please explicitly state the page number and paragraph.

QUANTIFICATION OF BASELINES AND IMPACTS:

This impact appears to be potentially significant.

1a. Please clearly identify by NAME and describe each of the objective (non-subjective) CRITERIA used to determine the impact significance of Construction Caused Loss of Topsoil.

1b. If no objective criteria are used please state that clearly.

2. If no objective criteria are used please clearly describe how the threshold of significance chosen is scientifically testable, repeatable, falsifiable, credible and defensible.

3a. Please state the NAME of the MEASUREMENT UNITS (numbers) used to determine the significance for EACH criteria.

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46. Please provide the reverse of this impact as Mitigation.

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48. Please list all other studies initiated by the applicant related to this impact, including subject matter breadth, author's names and dates and where they can be examined.

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* 291 - PESTICIDE IMPACTS ON SOIL ECOSYSTEM.

The Document appears to have ignored this potentially significant impact. Please carefully analyze and disclose the potential impacts of Pesticide Impacts on Soil Ecosystem.

If you claim the document contains proof of no-significant-impact for this impact please explicitly state the page number and paragraph.

"Soil is one of the least appreciated parts of our life-support system." The consequences would be dire indeed if human activities were to seriously undermine the soil's ability to recycle nutrients - a process of recycling that depends on a myriad of
bacteria, fungi and insects." OSF pg 242

There are billions of microorganisms in a single teaspoon of topsoil. -Audubon, Almanac of the Environment, 1994

QUANTIFICATION OF BASELINES AND IMPACTS:

This impact appears to be potentially significant.

1a. Please clearly identify by NAME and describe each of the objective (non-subjective) CRITERIA used to determine the impact significance of Pesticide Impacts on Soil Ecosystem.

1b. If no objective criteria are used please state that clearly.

2. If no objective criteria are used please clearly describe how the threshold of significance chosen is scientifically testable, repeatable, falsifiable, credible and defensible.

3a. Please state the NAME of the MEASUREMENT UNITS (numbers) used to determine the significance for EACH criteria.

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* 292 - PESTICIDE IMPACTS ON MICRORGANISMS.

The Document appears to have ignored this potentially significant Impact. Please carefully analyze and disclose the potential impacts of Pesticide Impacts on Microrganisms.

If you claim the document contains proof of no-significant-impact for this impact please explicitly state the page number and paragraph.

"A cubic centimeter of forest soil typically contains 1200 - 1300 individual species of microrganisms." Dr. Arthur Partridge, U of Idaho, Professor Emeritus, Forest Ecosystems

QUANTIFICATION OF BASELINES AND IMPACTS:

This impact appears to be potentially significant.

1a. Please clearly identify by NAME and describe each of the objective (non-subjective) CRITERIA used to determine the impact significance of Pesticide Impacts on Microrganisms.

1b. If no objective criteria are used please state that clearly.

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3a. Please state the NAME of the MEASUREMENT UNITS (numbers) used to determine the significance for EACH criteria.

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* 293 - MICROBE BIOMASS.

The Document appears to have ignored this potentially significant Impact. Please carefully analyze and disclose the potential Impacts of Microbe Biomass.

If you claim the document contains proof of no-significant-impact for this impact please explicitly state the page number and paragraph.

Soil microbes are the agents of organic change. They breakdown carbon, nitrogen and phosphorus compounds into a form that plants can take up into their root systems as nutrients.

Less microbes means more fertilizer must be applied to crops.

QUANTIFICATION OF BASELINES AND IMPACTS:

This impact appears to be potentially significant.

1a. Please clearly identify by NAME and describe each of the objective (non-subjective) CRITERIA used to determine the impact significance of Microbe Biomass.

1b. If no objective criteria are used please state that clearly.

2. If no objective criteria are used please clearly describe how the threshold of significance chosen is scientifically testable, repeatable, falsifiable, credible and defensible.

3a. Please state the NAME of the MEASUREMENT UNITS (numbers) used to determine the significance for EACH criteria.

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* 294 - MICROBE BIODIVERSITY.

The Document appears to have ignored this potentially significant impact. Please carefully analyze and disclose the potential impacts of Microbe Biodiversity.

If you claim the document contains proof of no-significant-impact for this impact please explicitly state the page number and paragraph.

QUANTIFICATION OF BASELINES AND IMPACTS:

This impact appears to be potentially significant.

1a. Please clearly identify by NAME and describe each of the objective (non-subjective) CRITERIA used to determine the impact significance of Microbe Biodiversity.

1b. If no objective criteria are used please state that clearly.

2. If no objective criteria are used please clearly describe how the threshold of significance chosen is scientifically testable, repeatable, falsifiable, credible and defensible.

3a. Please state the NAME of the MEASUREMENT UNITS (numbers) used to determine the significance for EACH criteria.

3b. Please quote the definition used.

4. If no measurement units are used please state that clearly.

5a. Please state the METHOD of measurement used to determine the significance for each criteria.

5b. If no method of measurement was used please state that clearly for each criteria and explain thoroughly how the data was obtained.

6. Please quantify the existing or current BASELINE measurement (level) for each criteria.

7. Please state its MARGIN of ERROR or a confidence level and whether the MARGIN of ERROR is measured or assumed.

8. Please state the VARIANCE or fluctuation, assumed or expected for each of the criteria listed above.

9. Please state the variance's MARGINS of ERROR or confidence level.

10. Please state whether this MARGIN of ERROR is measured or assumed.

11. If an average is used, please state which kind of average.

12. Please state the most extreme values which could be encountered.

13. Please describe and quantify which criteria and ASSUMPTIONS the Impact Significance predictions are most SENSITIVE.

14. Please analyze and quantify how sensitive those predictions are to reasonably foreseeable varying criteria and assumptions.

15. Please provide a graph of HISTORICAL measurements.

16. Please quantify the length of time this impact would last.

17. Please quantify how this impact would vary over that time period. Please use a graph for clarity.

18. Please state the THRESHOLD number at which the impact changes from significant to less-than-significant and the clear criteria and rationale for that number.

19. Please provide the MARGIN of ERROR used (in percent and absolute amount) for measuring the Significance THRESHOLD Level.

20s. Please state whether this MARGIN of ERROR is measured or assumed.

20b. If no margin of error is used please state that clearly.

21. Please disclose all threshold numbers at which the impact changes from LEGAL to ILLEGAL for ALL related and potentially relevant local, state and federal laws.

22. Some Impacts increase in a LINEAR RELATIONSHIP with increasing input, other impacts have complex non-linear relationships. Please provide a graph that shows whether the relationship is linear or otherwise - when at and near the significance threshold
values.

23. Please quantify the total PERCENT MAXIMUM CHANGE, to which the IMPACT could raise or lower the baseline number and its MARGIN of ERROR or confidence levels.

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25. Please state whether this total PERCENT maximum change is an AVERAGE amount, a worst case expected or a best case expected.

26. Please quantify the ABSOLUTE MAXIMUM AMOUNT, to which the impact would raise or lower the baseline number and its MARGIN of ERROR or confidence levels.

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31. Please quantify all potential CUMULATIVE impacts related to this one.

32. Please list, describe and quantify all potential compound and synergetic impacts.

33. Please list, describe and quantify all Construction impacts related to this one.

34. Please list, describe and quantify all Growth impacts related to this one.

35. Please list, describe and quantify all Indirect impacts related to this one.

36. Please list and quantify every OTHER IMPACT - this impact or mitigation could increase.

37. Please describe the EXISTING USABLE limit of the RESOURCE this impact affects.

38. Please state the METHOD of measurement used to determine the limit of the RESOURCE this impact affects.

39. Please describe the MARGIN of ERROR or confidence level used to measure how much of this resource is left.

40. Please state whether the margin of error is measured or assumed.

41. Please quantify what is the maximum amount (in AMOUNT of existing) of this resource that can be lost and still be restored.

42. Please quantify what is the MAXIMUM amount (in PERCENTAGE of existing) of this resource that can be LOST and still be restored.

43. Please name each EXPERT who prepared and reviewed this impact.

44. Please cite each expert's training, and peer reviewed, validly published articles specific to this impact.

45. Please provide AVOIDANCE MITIGATION for this impact.

46. Please provide the reverse of this impact as Mitigation.

47. Please provide an ALTERNATIVE which avoids this impact.

48. Please list all other studies initiated by the applicant related to this impact, including subject matter breadth, author's names and dates and where they can be examined.

* 295 - PESTICIDE IMPACTS ON MICROBE BIOMASS.

The Document appears to have ignored this potentially significant impact. Please carefully analyze and disclose the potential impacts of Pesticide Impacts on Microbe Biomass.

If you claim the document contains proof of no-significant-impact for this impact please explicitly state the page number and paragraph.

Soil microbes are the agents of organic change. They breakdown carbon, nitrogen and phosphorus compounds into a form that plants can take up into their root systems as nutrients.

Less microbes means more fertilizer must be applied to crops.

QUANTIFICATION OF BASELINES AND IMPACTS:

This impact appears to be potentially significant.

1a. Please clearly identify by NAME and describe each of the objective (non-subjective) CRITERIA used to determine the impact significance of Pesticide Impacts on Microbe Biomass.

1b. If no objective criteria are used please state that clearly.

2. If no objective criteria are used please clearly describe how the threshold of significance chosen is scientifically testable, repeatable, falsifiable, credible and defensible.

3a. Please state the NAME of the MEASUREMENT UNITS (numbers) used to determine the significance for EACH criteria.

3b. Please quote the definition used.

4. If no measurement units are used please state that clearly.

5a. Please state the METHOD of measurement used to determine the significance for each criteria.

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6. Please quantify the existing or current BASELINE measurement (level) for each criteria.

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8. Please state the VARIANCE or fluctuation, assumed or expected for each of the criteria listed above.

9. Please state the variance's MARGINS of ERROR or confidence level.

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12. Please state the most extreme values which could be encountered.

13. Please describe and quantify which criteria and ASSUMPTIONS the Impact Significance predictions are most SENSITIVE.

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21. Please disclose all threshold numbers at which the impact changes from LEGAL to ILLEGAL for ALL related and potentially relevant local, state and federal laws.

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values.

23. Please quantify the total PERCENT MAXIMUM CHANGE, to which the IMPACT could raise or lower the baseline number and its MARGIN of ERROR or confidence levels.

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36. Please list and quantify every OTHER IMPACT - this impact or mitigation could increase.

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39. Please describe the MARGIN of ERROR or confidence level used to measure how much of this resource is left.

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42. Please quantify what is the MAXIMUM amount (in PERCENTAGE of existing) of this resource that can be LOST and still be restored.

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44. Please cite each expert's training, and peer reviewed, validly published articles specific to this impact.

45. Please provide AVOIDANCE MITIGATION for this impact.

46. Please provide the reverse of this impact as Mitigation.

47. Please provide an ALTERNATIVE which avoids this impact.

48. Please list all other studies initiated by the applicant related to this impact, including subject matter breadth, author's names and dates and where they can be examined.

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* 296 - LOSS OF TOPSOIL

The Document appears to have ignored this potentially significant impact. Please carefully analyze and disclose the potential impacts of Loss of Topsoil.

If you claim the document contains proof of no-significant-impact for this impact please explicitly state the page number and paragraph.

The world loses 7 percent of its topsoil per decade. -Audubon, Almanac of the Environment, 1994

It can take 5000 years to produce five inches of topsoil. Ibid

Please quantify maximum potential topsoil (A,B & C horizons) loss in mass.

How many cubic meters (or yards) of soil will be moved?

Moving soil or rocks by truck on public roads requires a weight ticket for each load.

How will the weight of each truckload be monitored completely and accurately?

QUANTIFICATION OF BASELINES AND IMPACTS:

This impact appears to be potentially significant.

1a. Please clearly identify by NAME and describe each of the objective (non-subjective) CRITERIA used to determine the impact significance of Loss of Topsoil.

1b. If no objective criteria are used please state that clearly.

2. If no objective criteria are used please clearly describe how the threshold of significance chosen is scientifically testable, repeatable, falsifiable, credible and defensible.

3a. Please state the NAME of the MEASUREMENT UNITS (numbers) used to determine the significance for EACH criteria.

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* 297 - SOIL DEPTH.

The Document appears to have ignored this potentially significant Impact. Please carefully analyze and disclose the potential impacts of Soil Depth.

If you claim the document contains proof of no-significant-impact for this impact please explicitly state the page number and paragraph.

Please quantify and map soil (A,B & C horizons) loss in centimeters (or inches).

QUANTIFICATION OF BASELINES AND IMPACTS:

This impact appears to be potentially significant.

1a. Please clearly identify by NAME and describe each of the objective (non-subjective) CRITERIA used to determine the impact significance of Soil Depth.

1b. If no objective criteria are used please state that clearly.

2. If no objective criteria are used please clearly describe how the threshold of significance chosen is scientifically testable, repeatable, falsifiable, credible and defensible.

3a. Please state the NAME of the MEASUREMENT UNITS (numbers) used to determine the significance for EACH criteria.

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16. Please quantify the length of time this impact would last.

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* 298 - SOIL FERTILITY.

The Document appears to have ignored this potentially significant Impact. Please carefully analyze and disclose the potential impacts of Soil Fertility.

If you claim the document contains proof of no-significant-impact for this impact please explicitly state the page number and paragraph.

There are billions of microorganisms in a single teaspoon of topsoil. -Audubon, Almanac of the Environment, 1994

Please describe and quantify the minerals, organic material and pH in the potentially lost soils soil (A,B & C horizons) in terms of soil fertility.

QUANTIFICATION OF BASELINES AND IMPACTS:

This impact appears to be potentially significant.

1a. Please clearly identify by NAME and describe each of the objective (non-subjective) CRITERIA used to determine the impact significance of Soil Fertility.

1b. If no objective criteria are used please state that clearly.

2. If no objective criteria are used please clearly describe how the threshold of significance chosen is scientifically testable, repeatable, falsifiable, credible and defensible.

3a. Please state the NAME of the MEASUREMENT UNITS (numbers) used to determine the significance for EACH criteria.

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5a. Please state the METHOD of measurement used to determine the significance for each criteria.

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16. Please quantify the length of time this impact would last.

17. Please quantify how this impact would vary over that time period. Please use a graph for clarity.

18. Please state the THRESHOLD number at which the impact changes from significant to less-than-significant and the clear criteria and rationale for that number.

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* 299 - INCREASED IMPERMEABLE SURFACE AREA REDUCING GROUNDWATER RECHARGE.

The Document appears to have ignored this potentially significant impact. Please carefully analyze and disclose the potential impacts of Increased Impermeable Surface Area Reducing Groundwater Recharge.

If you claim the document contains proof of no-significant-impact for this impact please explicitly state the page number and paragraph.

Increased impervious or impermeable area harms rain infiltration. Impervious surfaces include buildings, homes, parking lots and streets. "Naturally occurring undisturbed areas typically infiltrate 60 percent of rain depending on soil type. Clearing and
grading a site typically removes existing vegetated areas that retain the inherent infiltration capacity of undisturbed areas." AMBAG's Pajaro River Watershed Management Draft Plan March 1999

"In the mid-Atlantic states an acre of impervious area may reduce groundwater recharge and groundwater flow to wetlands, streams, tidal waters by 300,000 (almost one acre foot) gallons per year. A decline in recharge may also affect the amount of water
available to those who get their water through wells." The Cumulative Effects of Land Development on Streams, Rivers, Lakes, Tidal Waters & Wetlands, by Richard Klein 1979

If a forest is converted to managed turf, then recharge may decrease by 15% (EPA, 1982. Results of the Nationwide Urban Runoff Program. Vol. 1 & Appendices, Water Planning Division). "For each acre of forestland replaced with grass, base flow may
diminish by 41,000 gallons per year. Converting that same acre to a parking lot or a clubhouse site would prevent the entire quarter-million gallons of rainfall from becoming base flow." Richard Klein, 1993

Please provide clear factual basis and reasoning how any Groundwater Recharge lost to an increase in impervious surface might be reduced (e.g. locations, size in areas).

Please use as impact measuring criteria: area and provide a map.

QUANTIFICATION OF BASELINES AND IMPACTS:

This impact appears to be potentially significant.

1a. Please clearly identify by NAME and describe each of the objective (non-subjective) CRITERIA used to determine the impact significance of Increased Impermeable Surface Area Reducing Groundwater Recharge.

1b. If no objective criteria are used please state that clearly.

2. If no objective criteria are used please clearly describe how the threshold of significance chosen is scientifically testable, repeatable, falsifiable, credible and defensible.

3a. Please state the NAME of the MEASUREMENT UNITS (numbers) used to determine the significance for EACH criteria.

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39. Please describe the MARGIN of ERROR or confidence level used to measure how much of this resource is left.

40. Please state whether the margin of error is measured or assumed.

41. Please quantify what is the maximum amount (in AMOUNT of existing) of this resource that can be lost and still be restored.

42. Please quantify what is the MAXIMUM amount (in PERCENTAGE of existing) of this resource that can be LOST and still be restored.

43. Please name each EXPERT who prepared and reviewed this impact.

44. Please cite each expert's training, and peer reviewed, validly published articles specific to this impact.

45. Please provide AVOIDANCE MITIGATION for this impact.

46. Please provide the reverse of this impact as Mitigation.

47. Please provide an ALTERNATIVE which avoids this impact.

48. Please list all other studies initiated by the applicant related to this impact, including subject matter breadth, author's names and dates and where they can be examined.

-

* 300 - IMPERMEABLE SURFACE AREA INCREASING STORM RUNOFF.

The Document appears to have ignored this potentially significant impact. Please carefully analyze and disclose the potential impacts of Impermeable Surface Area Increasing Storm Runoff.

If you claim the document contains proof of no-significant-impact for this impact please explicitly state the page number and paragraph.

Watersheds affected include -- Asilomar Beach Creek, borders Pebble Beach Lake Majella (artificial in early 1900's) Majella Seep - on USGS Maps Sawmill Gulch South Moss Beach Stream Marcheta Lane creek (thru MPCC Gc) Seal Rock Creek Indian Village Creek
Cypress Point Golf Course Drainage & Wetland East Stillwater North Carmel Beach (Jeffers') Stream Pescadero Creek

QUANTIFICATION OF BASELINES AND IMPACTS:

This impact appears to be potentially significant.

1a. Please clearly identify by NAME and describe each of the objective (non-subjective) CRITERIA used to determine the impact significance of Impermeable Surface Area Increasing Storm Runoff.

1b. If no objective criteria are used please state that clearly.

2. If no objective criteria are used please clearly describe how the threshold of significance chosen is scientifically testable, repeatable, falsifiable, credible and defensible.

3a. Please state the NAME of the MEASUREMENT UNITS (numbers) used to determine the significance for EACH criteria.

3b. Please quote the definition used.

4. If no measurement units are used please state that clearly.

5a. Please state the METHOD of measurement used to determine the significance for each criteria.

5b. If no method of measurement was used please state that clearly for each criteria and explain thoroughly how the data was obtained.

6. Please quantify the existing or current BASELINE measurement (level) for each criteria.

7. Please state its MARGIN of ERROR or a confidence level and whether the MARGIN of ERROR is measured or assumed.

8. Please state the VARIANCE or fluctuation, assumed or expected for each of the criteria listed above.

9. Please state the variance's MARGINS of ERROR or confidence level.

10. Please state whether this MARGIN of ERROR is measured or assumed.

11. If an average is used, please state which kind of average.

12. Please state the most extreme values which could be encountered.

13. Please describe and quantify which criteria and ASSUMPTIONS the Impact Significance predictions are most SENSITIVE.

14. Please analyze and quantify how sensitive those predictions are to reasonably foreseeable varying criteria and assumptions.

15. Please provide a graph of HISTORICAL measurements.

16. Please quantify the length of time this impact would last.

17. Please quantify how this impact would vary over that time period. Please use a graph for clarity.

18. Please state the THRESHOLD number at which the impact changes from significant to less-than-significant and the clear criteria and rationale for that number.

19. Please provide the MARGIN of ERROR used (in percent and absolute amount) for measuring the Significance THRESHOLD Level.

20s. Please state whether this MARGIN of ERROR is measured or assumed.

20b. If no margin of error is used please state that clearly.

21. Please disclose all threshold numbers at which the impact changes from LEGAL to ILLEGAL for ALL related and potentially relevant local, state and federal laws.

22. Some Impacts increase in a LINEAR RELATIONSHIP with increasing input, other impacts have complex non-linear relationships. Please provide a graph that shows whether the relationship is linear or otherwise - when at and near the significance threshold
values.

23. Please quantify the total PERCENT MAXIMUM CHANGE, to which the IMPACT could raise or lower the baseline number and its MARGIN of ERROR or confidence levels.

24. Please state whether the MARGIN of ERROR is measured or assumed.

25. Please state whether this total PERCENT maximum change is an AVERAGE amount, a worst case expected or a best case expected.

26. Please quantify the ABSOLUTE MAXIMUM AMOUNT, to which the Impact would raise or lower the baseline number and its MARGIN of ERROR or confidence levels.

27. Please state whether the MARGIN of ERROR is measured or assumed.

28. Please state whether this total maximum change amount is an AVERAGE amount, a worst case expected or a best case expected.

29. Please list all potential CUMULATIVE impacts related to this one.

30 Please describe all potential CUMULATIVE impacts related to this one.

31. Please quantify all potential CUMULATIVE impacts related to this one.

32. Please list, describe and quantify all potential compound and synergetic impacts.

33. Please list, describe and quantify all Construction impacts related to this one.

34. Please list, describe and quantify all Growth impacts related to this one.

35. Please list, describe and quantify all Indirect impacts related to this one.

36. Please list and quantify every OTHER IMPACT - this impact or mitigation could increase.

37. Please describe the EXISTING USABLE limit of the RESOURCE this impact affects.

38. Please state the METHOD of measurement used to determine the limit of the RESOURCE this impact affects.

39. Please describe the MARGIN of ERROR or confidence level used to measure how much of this resource is left.

40. Please state whether the margin of error is measured or assumed.

41. Please quantify what is the maximum amount (in AMOUNT of existing) of this resource that can be lost and still be restored.

42. Please quantify what is the MAXIMUM amount (in PERCENTAGE of existing) of this resource that can be LOST and still be restored.

43. Please name each EXPERT who prepared and reviewed this impact.

44. Please cite each expert's training, and peer reviewed, validly published articles specific to this impact.

45. Please provide AVOIDANCE MITIGATION for this impact.

46. Please provide the reverse of this impact as Mitigation.

47. Please provide an ALTERNATIVE which avoids this impact.

48. Please list all other studies initiated by the applicant related to this impact, including subject matter breadth, author's names and dates and where they can be examined.

-

* 301 - IMPERMEABLE SURFACE AREA HARMING TREES & VEGETATION.

The Document appears to have ignored this potentially significant Impact. Please carefully analyze and disclose the potential impacts of Impermeable Surface Area Harming Trees & Vegetation.

If you claim the document contains proof of no-significant-impact for this impact please explicitly state the page number and paragraph.

Impermeable Surface Areas prevent and restrict rain from reaching Trees and plant roots.

QUANTIFICATION OF BASELINES AND IMPACTS:

This impact appears to be potentially significant.

1a. Please clearly identify by NAME and describe each of the objective (non-subjective) CRITERIA used to determine the impact significance of Impermeable Surface Area Harming Trees & Vegetation.

1b. If no objective criteria are used please state that clearly.

2. If no objective criteria are used please clearly describe how the threshold of significance chosen is scientifically testable, repeatable, falsifiable, credible and defensible.

3a. Please state the NAME of the MEASUREMENT UNITS (numbers) used to determine the significance for EACH criteria.

3b. Please quote the definition used.

4. If no measurement units are used please state that clearly.

5a. Please state the METHOD of measurement used to determine the significance for each criteria.

5b. If no method of measurement was used please state that clearly for each criteria and explain thoroughly how the data was obtained.

6. Please quantify the existing or current BASELINE measurement (level) for each criteria.

7. Please state its MARGIN of ERROR or a confidence level and whether the MARGIN of ERROR is measured or assumed.

8. Please state the VARIANCE or fluctuation, assumed or expected for each of the criteria listed above.

9. Please state the variance's MARGINS of ERROR or confidence level.

10. Please state whether this MARGIN of ERROR is measured or assumed.

11. If an average is used, please state which kind of average.

12. Please state the most extreme values which could be encountered.

13. Please describe and quantify which criteria and ASSUMPTIONS the Impact Significance predictions are most SENSITIVE.

14. Please analyze and quantify how sensitive those predictions are to reasonably foreseeable varying criteria and assumptions.

15. Please provide a graph of HISTORICAL measurements.

16. Please quantify the length of time this impact would last.

17. Please quantify how this impact would vary over that time period. Please use a graph for clarity.

18. Please state the THRESHOLD number at which the impact changes from significant to less-than-significant and the clear criteria and rationale for that number.

19. Please provide the MARGIN of ERROR used (in percent and absolute amount) for measuring the Significance THRESHOLD Level.

20a. Please state whether this MARGIN of ERROR is measured or assumed.

20b. If no margin of error is used please state that clearly.

21. Please disclose all threshold numbers at which the impact changes from LEGAL to ILLEGAL for ALL related and potentially relevant local, state and federal laws.

22. Some Impacts increase in a LINEAR RELATIONSHIP with increasing input, other impacts have complex non-linear relationships. Please provide a graph that shows whether the relationship is linear or otherwise - when at and near the significance threshold
values.

23. Please quantify the total PERCENT MAXIMUM CHANGE, to which the IMPACT could raise or lower the baseline number and its MARGIN of ERROR or confidence levels.

24. Please state whether the MARGIN of ERROR is measured or assumed.

25. Please state whether this total PERCENT maximum change is an AVERAGE amount, a worst case expected or a best case expected.

26. Please quantify the ABSOLUTE MAXIMUM AMOUNT, to which the impact would raise or lower the baseline number and its MARGIN of ERROR or confidence levels.

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31. Please quantify all potential CUMULATIVE impacts related to this one.

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33. Please list, describe and quantify all Construction impacts related to this one.

34. Please list, describe and quantify all Growth impacts related to this one.

35. Please list, describe and quantify all Indirect impacts related to this one.

36. Please list and quantify every OTHER IMPACT - this impact or mitigation could increase.

37. Please describe the EXISTING USABLE limit of the RESOURCE this impact affects.

38. Please state the METHOD of measurement used to determine the limit of the RESOURCE this impact affects.

39. Please describe the MARGIN of ERROR or confidence level used to measure how much of this resource is left.

40. Please state whether the margin of error is measured or assumed.

41. Please quantify what is the maximum amount (in AMOUNT of existing) of this resource that can be lost and still be restored.

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43. Please name each EXPERT who prepared and reviewed this impact.

44. Please cite each expert's training, and peer reviewed, validly published articles specific to this impact.

45. Please provide AVOIDANCE MITIGATION for this impact.

46. Please provide the reverse of this impact as Mitigation.

47. Please provide an ALTERNATIVE which avoids this impact.

48. Please list all other studies initiated by the applicant related to this impact, including subject matter breadth, author's names and dates and where they can be examined.

* 302 - SIDEWALK AND ROAD BUMPS.

The Document appears to have ignored this potentially significant impact. Please carefully analyze and disclose the potential impacts of Sidewalk and Road Bumps.

If you claim the document contains proof of no-significant-impact for this impact please explicitly state the page number and paragraph.

Impermeable surface areas prevent and restrict rain from reaching tree and plant roots. Ordinary roots rarely break the soil surface, but when root watering by rainfall is prevented or restricted by impervious surfaces the roots rise and grow upwards
often breaking through sidewalks and streets.

QUANTIFICATION OF BASELINES AND IMPACTS:

This impact appears to be potentially significant.

1a. Please clearly identify by NAME and describe each of the objective (non-subjective) CRITERIA used to determine the impact significance of Sidewalk and Road Bumps.

1b. If no objective criteria are used please state that clearly.

2. If no objective criteria are used please clearly describe how the threshold of significance chosen is scientifically testable, repeatable, falsifiable, credible and defensible.

3a. Please state the NAME of the MEASUREMENT UNITS (numbers) used to determine the significance for EACH criteria.

3b. Please quote the definition used.

4. If no measurement units are used please state that clearly.

5a. Please state the METHOD of measurement used to determine the significance for each criteria.

5b. If no method of measurement was used please state that clearly for each criteria and explain thoroughly how the data was obtained.

6. Please quantify the existing or current BASELINE measurement (level) for each criteria.

7. Please state its MARGIN of ERROR or a confidence level and whether the MARGIN of ERROR is measured or assumed.

8. Please state the VARIANCE or fluctuation, assumed or expected for each of the criteria listed above.

9. Please state the variance's MARGINS of ERROR or confidence level.

10. Please state whether this MARGIN of ERROR is measured or assumed.

11. If an average is used, please state which kind of average.

12. Please state the most extreme values which could be encountered.

13. Please describe and quantify which criteria and ASSUMPTIONS the Impact Significance predictions are most SENSITIVE.

14. Please analyze and quantify how sensitive those predictions are to reasonably foreseeable varying criteria and assumptions.

15. Please provide a graph of HISTORICAL measurements.

16. Please quantify the length of time this impact would last.

17. Please quantify how this impact would vary over that time period. Please use a graph for clarity.

18. Please state the THRESHOLD number at which the impact changes from significant to less-than-significant and the clear criteria and rationale for that number.

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20b. If no margin of error is used please state that clearly.

21. Please disclose all threshold numbers at which the impact changes from LEGAL to ILLEGAL for ALL related and potentially relevant local, state and federal laws.

22. Some impacts increase in a LINEAR RELATIONSHIP with increasing input, other impacts have complex non-linear relationships. Please provide a graph that shows whether the relationship is linear or otherwise - when at and near the significance threshold
values.

23. Please quantify the total PERCENT MAXIMUM CHANGE, to which the IMPACT could raise or lower the baseline number and its MARGIN of ERROR or confidence levels.

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35. Please list, describe and quantify all Indirect impacts related to this one.

36. Please list and quantify every OTHER IMPACT - this impact or mitigation could increase.

37. Please describe the EXISTING USABLE limit of the RESOURCE this impact affects.

38. Please state the METHOD of measurement used to determine the limit of the RESOURCE this impact affects.

39. Please describe the MARGIN of ERROR or confidence level used to measure how much of this resource is left.

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41. Please quantify what is the maximum amount (in AMOUNT of existing) of this resource that can be lost and still be restored.

42. Please quantify what is the MAXIMUM amount (in PERCENTAGE of existing) of this resource that can be LOST and still be restored.

43. Please name each EXPERT who prepared and reviewed this impact.

44. Please cite each expert's training, and peer reviewed, validly published articles specific to this impact.

45. Please provide AVOIDANCE MITIGATION for this impact.

46. Please provide the reverse of this impact as Mitigation.

47. Please provide an ALTERNATIVE which avoids this impact.

48. Please list all other studies initiated by the applicant related to this impact, including subject matter breadth, author's names and dates and where they can be examined.

* 303 - REMOVAL OF IMPERVIOUS SURFACES.

The Document appears to have ignored this potentially feasible Mitigation. Please carefully analyze and disclose the potential benefits of Removal of Impervious Surfaces.

So there is no net loss of impervious surface, an area at least equal to the proposed increase of impervious surface should be cleared of covering.

* 304 - DRIVEWAYS AND PARKING AREAS MADE WITH "GRASSCRETE".

The Document appears to have ignored this potentially feasible Mitigation. Please carefully analyze and disclose the potential benefits of Driveways and Parking Areas made with "Grasscrete".

The use of "Grasscrete" or other similar coverings can almost completely eliminate increased stormwater runoff that would occur with a paved area.

* 305 - SIDEWALKS MADE WITH INTERLOCKING PAVERS.

The Document appears to have ignored this potentially feasible Mitigation. Please carefully analyze and disclose the potential benefits of Sidewalks made with Interlocking Pavers.

The use of "Grasscrete" or Interlocking Pavers or other similar coverings allows some water to percolate into the soil to nourish trees and other plants and vegetation living in sidewalk planters. The use of Interlocking Pavers is in Carmel-by-the-Sea's
Driveway and Public ways policies.

* 306 - NATIVE TREE PLANTING TO REDUCE RUNOFF.

The Document appears to have ignored this potentially feasible Mitigation. Please carefully analyze and disclose the potential benefits of Native Tree Planting to Reduce Runoff.

California Code 4799.07. The Legislature finds and declares that: (e) Trees also help reduce noise, provide habitat for songbirds and other wildlife, reduce surface runoff and protect urban water resources, and enhance the aesthetic quality of life in
the city.

* 307 - STORMWATER DIVERSION FROM ORIGINAL WATERSHED.

The Document appears to have ignored this potentially significant impact. Please carefully analyze and disclose the potential impacts of Stormwater Diversion from Original Watershed.

If you claim the document contains proof of no-significant-impact for this impact please explicitly state the page number and paragraph.

When streets are paved and gutters installed stormwater is normally channeled into stormwater capture and guidance systems. On gently sloping ground with subtle watershed divides (such as Pacific Grove California, stormwater guidance systems can and do
redirect stormwaler flows into adjacent watersheds. This can increase non-point source pollutants in the new watershed and decrease the freshwater flows and the nutrients it delivers in the former watershed.

Please use as impact measuring criteria: weight or mass of water diverted.

QUANTIFICATION OF BASELINES AND IMPACTS:

This impact appears to be potentially significant.

1a. Please clearly identify by NAME and describe each of the objective (non-subjective) CRITERIA used to determine the impact significance of Stormwater Diversion from Original Watershed.

1b. If no objective criteria are used please state that clearly.

2. If no objective criteria are used please clearly describe how the threshold of significance chosen is scientifically testable, repeatable, falsifiable, credible and defensible.

3a. Please state the NAME of the MEASUREMENT UNITS (numbers) used to determine the significance for EACH criteria.

3b. Please quote the definition used.

4. If no measurement units are used please state that clearly.

5a. Please state the METHOD of measurement used to determine the significance for each criteria.

5b. If no method of measurement was used please state that clearly for each criteria and explain thoroughly how the data was obtained.

6. Please quantify the existing or current BASELINE measurement (level) for each criteria.

7. Please state its MARGIN of ERROR or a confidence level and whether the MARGIN of ERROR is measured or assumed.

8. Please state the VARIANCE or fluctuation, assumed or expected for each of the criteria listed above.

9. Please state the variance's MARGINS of ERROR or confidence level.

10. Please state whether this MARGIN of ERROR is measured or assumed.

11. If an average is used, please state which kind of average.

12. Please state the most extreme values which could be encountered.

13. Please describe and quantify which criteria and ASSUMPTIONS the Impact Significance predictions are most SENSITIVE.

14. Please analyze and quantify how sensitive those predictions are to reasonably foreseeable varying criteria and assumptions.

15. Please provide a graph of HISTORICAL measurements.

16. Please quantify the length of time this impact would last.

17. Please quantify how this impact would vary over that time period. Please use a graph for clarity.

18. Please state the THRESHOLD number at which the impact changes from significant to less-than-significant and the clear criteria and rationale for that number.

19. Please provide the MARGIN of ERROR used (in percent and absolute amount) for measuring the Significance THRESHOLD Level.

20s. Please state whether this MARGIN of ERROR is measured or assumed.

20b. If no margin of error is used please state that clearly.

21. Please disclose all threshold numbers at which the Impact changes from LEGAL to ILLEGAL for ALL related and potentially relevant local, state and federal laws.

22. Some Impacts increase in a LINEAR RELATIONSHIP with increasing input, other impacts have complex non-linear relationships. Please provide a graph that shows whether the relationship is linear or otherwise - when at and near the significance threshold
values.

23. Please quantify the total PERCENT MAXIMUM CHANGE, to which the IMPACT could raise or lower the baseline number and its MARGIN of ERROR or confidence levels.

24. Please state whether the MARGIN of ERROR is measured or assumed.

25. Please state whether this total PERCENT maximum change is an AVERAGE amount, a worst case expected or a best case expected.

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31. Please quantify all potential CUMULATIVE impacts related to this one.

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33. Please list, describe and quantify all Construction Impacts related to this one.

34. Please list, describe and quantify all Growth impacts related to this one.

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36. Please list and quantify every OTHER IMPACT - this impact or mitigation could increase.

37. Please describe the EXISTING USABLE limit of the RESOURCE this impact affects.

38. Please state the METHOD of measurement used to determine the limit of the RESOURCE this impact affects.

39. Please describe the MARGIN of ERROR or confidence level used to measure how much of this resource is left.

40. Please state whether the margin of error is measured or assumed.

41. Please quantify what is the maximum amount (in AMOUNT of existing) of this resource that can be lost and still be restored.

42. Please quantify what is the MAXIMUM amount (in PERCENTAGE of existing) of this resource that can be LOST and still be restored.

43. Please name each EXPERT who prepared and reviewed this impact.

44. Please cite each expert's training, and peer reviewed, validly published articles specific to this impact.

45. Please provide AVOIDANCE MITIGATION for this impact.

46. Please provide the reverse of this impact as Mitigation.

47. Please provide an ALTERNATIVE which avoids this impact.

48. Please list all other studies initiated by the applicant related to this impact, including subject matter breadth, author's names and dates and where they can be examined.

* 308 - LAND CLEARING AND SOIL COMPACTION LIMITED TO SMALLEST AREA POSSIBLE.

The Document appears to have ignored this potentially feasible Mitigation. Please carefully analyze and disclose the potential benefits of Land Clearing and Soil Compaction Limited to Smallest Area Possible.

* 309 - CONSERVATION EASEMENTS TO PROTECT EXISTING VEGETATION AND UNDISTURBED AREAS.

The Document appears to have ignored this potentially feasible Mitigation. Please carefully analyze and disclose the potential benefits of Conservation Easements to Protect Existing Vegetation and Undisturbed Areas.

* 310 - SMALLER FOOTPRINT STRUCTURES TO MINIMIZE IMPERVIOUS SURFACES.

The Document appears to have ignored this potentially feasible Alternative. Please carefully analyze and disclose the potential benefits of Smaller Footprint Structures to Minimize Impervious Surfaces.

The smaller the structure footprint, the less the impervious surface loss.

ALTERNATIVE FACTUAL ANALYSIS

There is little or no factual evidence in the document showing why this alternative is infeasible.

A. Please clearly identify by name and describe each of the objective (non-subjective) criteria used to determine this Alternative's benefits.

A1. If no objective criteria are used please state that clearly.

A2. If the criteria are different than those used to evaluate the benefits of the proposed project, please explain as it is not generally acceptable to compare apples and oranges.

B. Please state the name of the measurement units (numbers) used to determine the value for Each criteria.

B1. If no measurement units are used please state that clearly.

C. Please state the method of measurement used to determine the value for each criteria.

C1. If no measurement units are used please state that clearly for each criteria.

C2. If no objective criteria are used please clearly describe how the method of measuring value is scientifically credible and defensible.

D. Please state the existing or current baseline measurement (level) for each criteria.

E. Please state the normal variance or fluctuation, assumed or expected for each of the criteria listed above.

E1. If an average is used, please state which kind of average.

E2. Please state the extreme conditions which will be encountered.

F. Please provide a graph of historical measurement.

G. Please state the measured, assumed or expected margin of error for each measurement, calculation, and conclusion and whether it is measured or assumed.

H. Please state the total maximum change, in Percent, to which the Alternative would raise or lower the baseline number.

H1. Please state whether this total maximum change percent is an average amount, a worst case expected or a best case expected.

H2. Please state the degree, in Absolute Amount, to which this Alternative would raise or lower the baseline number;

H3. Please state whether this total maximum change amount is an average amount, a best case expected or other.

I. Please state the threshold number at which the value changes from a significant impact to a less-than-significant impact and the clear rationale for that number.

I1. Please provide the margin of error used (in percent and absolute amount) to insure the Significance Threshold Level for this Alternative is not somehow exceeded.

I2. If no margin of error is used please state that clearly.

J. ALTERNATIVE VALUE PROOF Please cite and provide relevant studies that clearly show that the project purposes could not be achieved with this alternative or with this alternative in combination with other alternatives.

J1. Please discuss the limitations of those studies.

BENEFIT DURATION K. Please clearly describe how the benefits vary over the time during the studies.

K1. Please graph the benefits for this alternative versus time in the studies. It is important to know the duration of an Alternative's benefits compared with the benefits from the proposed project.

COSTS L. Please cite the costs for the Alternatives studied.

L1. It is important to know the cost to benefit ratio, please explain that ratio.

M. EXPERT QUALIFICATIONS Please name each expert who prepared and reviewed this Alternative analysis.

M1. Please cite each expert's training, competence and experience specific to this Alternative analysis.

-

* 311 - INCREASED SOIL EROSION.

The Document appears to have ignored this potentially significant impact. Please carefully analyze and disclose the potential impacts of Increased Soil Erosion.

If you claim the document contains proof of no-significant-impact for this impact please explicitly state the page number and paragraph.

"Bulldozing away a forest can increase soil erosion by 10 to 1,000 fold. The mud washed from a typical construction site can damage three miles of downstream waters with recovery taking up to a century." The Cumulative Effects of Land Development on
Streams, Rivers, Lakes, Tidal Waters & Wetlands, by Richard Klein 1979

QUANTIFICATION OF BASELINES AND IMPACTS:

This Impact appears to be potentially significant.

1a. Please clearly identify by NAME and describe each of the objective (non-subjective) CRITERIA used to determine the impact significance of Increased Soil Erosion.

1b. If no objective criteria are used please state that clearly.

2. If no objective criteria are used please clearly describe how the threshold of significance chosen is scientifically testable, repeatable, falsifiable, credible and defensible.

3a. Please state the NAME of the MEASUREMENT UNITS (numbers) used to determine the significance for EACH criteria.

3b. Please quote the definition used.

4. If no measurement units are used please state that clearly.

5a. Please state the METHOD of measurement used to determine the significance for each criteria.

5b. If no method of measurement was used please state that clearly for each criteria and explain thoroughly how the data was obtained.

6. Please quantify the existing or current BASELINE measurement (level) for each criteria.

7. Please state its MARGIN of ERROR or a confidence level and whether the MARGIN of ERROR is measured or assumed.

8. Please state the VARIANCE or fluctuation, assumed or expected for each of the criteria listed above.

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10. Please state whether this MARGIN of ERROR is measured or assumed.

11. If an average is used, please state which kind of average.

12. Please state the most extreme values which could be encountered.

13. Please describe and quantify which criteria and ASSUMPTIONS the Impact Significance predictions are most SENSITIVE.

14. Please analyze and quantify how sensitive those predictions are to reasonably foreseeable varying criteria and assumptions.

15. Please provide a graph of HISTORICAL measurements.

16. Please quantify the length of time this impact would last.

17. Please quantify how this impact would vary over that time period. Please use a graph for clarity.

18. Please state the THRESHOLD number at which the impact changes from significant to less-than-significant and the clear criteria and rationale for that number.

19. Please provide the MARGIN of ERROR used (in percent and absolute amount) for measuring the Significance THRESHOLD Level.

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20b. If no margin of error is used please state that clearly.

21. Please disclose all threshold numbers at which the impact changes from LEGAL to ILLEGAL for ALL related and potentially relevant local, state and federal laws.

22. Some Impacts increase in a LINEAR RELATIONSHIP with increasing input, other impacts have complex non-linear relationships. Please provide a graph that shows whether the relationship is linear or otherwise - when at and near the significance threshold
values.

23. Please quantify the total PERCENT MAXIMUM CHANGE, to which the IMPACT could raise or lower the baseline number and its MARGIN of ERROR or confidence levels.

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25. Please state whether this total PERCENT maximum change is an AVERAGE amount, a worst case expected or a best case expected.

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29. Please list all potential CUMULATIVE impacts related to this one.

30 Please describe all potential CUMULATIVE impacts related to this one.

31. Please quantify all potential CUMULATIVE impacts related to this one.

32. Please list, describe and quantify all potential compound and synergetic impacts.

33. Please list, describe and quantify all Construction impacts related to this one.

34. Please list, describe and quantify all Growth impacts related to this one.

35. Please list, describe and quantify all Indirect impacts related to this one.

36. Please list and quantify every OTHER IMPACT - this impact or mitigation could increase.

37. Please describe the EXISTING USABLE limit of the RESOURCE this impact affects.

38. Please state the METHOD of measurement used to determine the limit of the RESOURCE this Impact affects.

39. Please describe the MARGIN of ERROR or confidence level used to measure how much of this resource is left.

40. Please state whether the margin of error is measured or assumed.

41. Please quantify what is the maximum amount (in AMOUNT of existing) of this resource that can be lost and still be restored.

42. Please quantify what is the MAXIMUM amount (in PERCENTAGE of existing) of this resource that can be LOST and still be restored.

43. Please name each EXPERT who prepared and reviewed this impact.

44. Please cite each expert's training, and peer reviewed, validly published articles specific to this impact.

45. Please provide AVOIDANCE MITIGATION for this impact.

46. Please provide the reverse of this Impact as Mitigation.

47. Please provide an ALTERNATIVE which avoids this impact.

48. Please list all other studies initiated by the applicant related to this impact, including subject matter breadth, author's names and dates and where they can be examined.

-

* 312 - STREAMBED EROSION.

The Document appears to have ignored this potentially significant Impact. Please carefully analyze and disclose the potential Impacts of Streambed Erosion.

If you claim the document contains proof of no-significant-impact for this Impact please explicitly state the page number and paragraph.

QUANTIFICATION OF BASELINES AND IMPACTS:

This impact appears to be potentially significant.

1a. Please clearly identify by NAME and describe each of the objective (non-subjective) CRITERIA used to determine the impact significance of Streambed Erosion.

1b. If no objective criteria are used please state that clearly.

2. If no objective criteria are used please clearly describe how the threshold of significance chosen is scientifically testable, repeatable, falsifiable, credible and defensible.

3a. Please state the NAME of the MEASUREMENT UNITS (numbers) used to determine the significance for EACH criteria.

3b. Please quote the definition used.

4. If no measurement units are used please state that clearly.

5a. Please state the METHOD of measurement used to determine the significance for each criteria.

5b. If no method of measurement was used please state that clearly for each criteria and explain thoroughly how the data was obtained.

6. Please quantify the existing or current BASELINE measurement (level) for each criteria.

7. Please state its MARGIN of ERROR or a confidence level and whether the MARGIN of ERROR is measured or assumed.

8. Please state the VARIANCE or fluctuation, assumed or expected for each of the criteria listed above.

9. Please state the variance's MARGINS of ERROR or confidence level.

10. Please state whether this MARGIN of ERROR is measured or assumed.

11. If an average is used, please state which kind of average.

12. Please state the most extreme values which could be encountered.

13. Please describe and quantify which criteria and ASSUMPTIONS the Impact Significance predictions are most SENSITIVE.

14. Please analyze and quantify how sensitive those predictions are to reasonably foreseeable varying criteria and assumptions.

15. Please provide a graph of HISTORICAL measurements.

16. Please quantify the length of time this impact would last.

17. Please quantify how this impact would vary over that time period. Please use a graph for clarity.

18. Please state the THRESHOLD number at which the impact changes from significant to less-than-significant and the clear criteria and rationale for that number.

19. Please provide the MARGIN of ERROR used (in percent and absolute amount) for measuring the Significance THRESHOLD Level.

20s. Please state whether this MARGIN of ERROR is measured or assumed.

20b. If no margin of error is used please state that clearly.

21. Please disclose all threshold numbers at which the impact changes from LEGAL to ILLEGAL for ALL related and potentially relevant local, state and federal laws.

22. Some Impacts increase in a LINEAR RELATIONSHIP with increasing input, other impacts have complex non-linear relationships. Please provide a graph that shows whether the relationship is linear or otherwise - when at and near the significance threshold
values.

23. Please quantify the total PERCENT MAXIMUM CHANGE, to which the IMPACT could raise or lower the baseline number and its MARGIN of ERROR or confidence levels.

24. Please state whether the MARGIN of ERROR is measured or assumed.

25. Please state whether this total PERCENT maximum change is an AVERAGE amount, a worst case expected or a best case expected.

26. Please quantify the ABSOLUTE MAXIMUM AMOUNT, to which the impact would raise or lower the baseline number and its MARGIN of ERROR or confidence levels.

27. Please state whether the MARGIN of ERROR is measured or assumed.

28. Please state whether this total maximum change amount is an AVERAGE amount, a worst case expected or a best case expected.

29. Please list all potential CUMULATIVE Impacts related to this one.

30 Please describe all potential CUMULATIVE impacts related to this one.

31. Please quantify all potential CUMULATIVE impacts related to this one.

32. Please list, describe and quantify all potential compound and synergetic impacts.

33. Please list, describe and quantify all Construction Impacts related to this one.

34. Please list, describe and quantify all Growth impacts related to this one.

35. Please list, describe and quantify all Indirect impacts related to this one.

36. Please list and quantify every OTHER IMPACT - this impact or mitigation could increase.

37. Please describe the EXISTING USABLE limit of the RESOURCE this impact affects.

38. Please state the METHOD of measurement used to determine the limit of the RESOURCE this impact affects.

39. Please describe the MARGIN of ERROR or confidence level used to measure how much of this resource is left.

40. Please state whether the margin of error is measured or assumed.

41. Please quantify what is the maximum amount (in AMOUNT of existing) of this resource that can be lost and still be restored.

42. Please quantify what is the MAXIMUM amount (in PERCENTAGE of existing) of this resource that can be LOST and still be restored.

43. Please name each EXPERT who prepared and reviewed this impact.

44. Please cite each expert's training, and peer reviewed, validly published articles specific to this impact.

45. Please provide AVOIDANCE MITIGATION for this impact.

46. Please provide the reverse of this impact as Mitigation.

47. Please provide an ALTERNATIVE which avoids this impact.

48. Please list all other studies initiated by the applicant related to this impact, including subject matter breadth, author's names and dates and where they can be examined.

* 313 - STREAMBANK EROSION FROM SEWAGE DISCHARGE.

The Document appears to have ignored this potentially significant Impact. Please carefully analyze and disclose the potential impacts of Streambank Erosion from Sewage Discharge.

If you claim the document contains proof of no-significant-impact for this impact please explicitly state the page number and paragraph.

QUANTIFICATION OF BASELINES AND IMPACTS:

This impact appears to be potentially significant.

1a. Please clearly identify by NAME and describe each of the objective (non-subjective) CRITERIA used to determine the impact significance of Streambank Erosion from Sewage Discharge.

1b. If no objective criteria are used please state that clearly.

2. If no objective criteria are used please clearly describe how the threshold of significance chosen is scientifically testable, repeatable, falsifiable, credible and defensible.

3a. Please state the NAME of the MEASUREMENT UNITS (numbers) used to determine the significance for EACH criteria.

3b. Please quote the definition used.

4. If no measurement units are used please state that clearly.

5a. Please state the METHOD of measurement used to determine the significance for each criteria.

5b. If no method of measurement was used please state that clearly for each criteria and explain thoroughly how the data was obtained.

6. Please quantify the existing or current BASELINE measurement (level) for each criteria.

7. Please state its MARGIN of ERROR or a confidence level and whether the MARGIN of ERROR is measured or assumed.

8. Please state the VARIANCE or fluctuation, assumed or expected for each of the criteria listed above.

9. Please state the variance's MARGINS of ERROR or confidence level.

10. Please state whether this MARGIN of ERROR is measured or assumed.

11. If an average is used, please state which kind of average.

12. Please state the most extreme values which could be encountered.

13. Please describe and quantify which criteria and ASSUMPTIONS the Impact Significance predictions are most SENSITIVE.

14. Please analyze and quantify how sensitive those predictions are to reasonably foreseeable varying criteria and assumptions.

15. Please provide a graph of HISTORICAL measurements.

16. Please quantify the length of time this impact would last.

17. Please quantify how this impact would vary over that time period. Please use a graph for clarity.

18. Please state the THRESHOLD number at which the impact changes from significant to less-than-significant and the clear criteria and rationale for that number.

19. Please provide the MARGIN of ERROR used (in percent and absolute amount) for measuring the Significance THRESHOLD Level.

20s. Please state whether this MARGIN of ERROR is measured or assumed.

20b. If no margin of error is used please state that clearly.

21. Please disclose all threshold numbers at which the impact changes from LEGAL to ILLEGAL for ALL related and potentially relevant local, state and federal laws.

22. Some Impacts increase in a LINEAR RELATIONSHIP with increasing input, other impacts have complex non-linear relationships. Please provide a graph that shows whether the relationship is linear or otherwise - when at and near the significance threshold
values.

23. Please quantify the total PERCENT MAXIMUM CHANGE, to which the IMPACT could raise or lower the baseline number and its MARGIN of ERROR or confidence levels.

24. Please state whether the MARGIN of ERROR is measured or assumed.

25. Please state whether this total PERCENT maximum change is an AVERAGE amount, a worst case expected or a best case expected.

26. Please quantify the ABSOLUTE MAXIMUM AMOUNT, to which the impact would raise or lower the baseline number and its MARGIN of ERROR or confidence levels.

27. Please state whether the MARGIN of ERROR is measured or assumed.

28. Please state whether this total maximum change amount is an AVERAGE amount, a worst case expected or a best case expected.

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30 Please describe all potential CUMULATIVE impacts related to this one.

31. Please quantify all potential CUMULATIVE Impacts related to this one.

32. Please list, describe and quantify all potential compound and synergetic impacts.

33. Please list, describe and quantify all Construction impacts related to this one.

34. Please list, describe and quantify all Growth impacts related to this one.

35. Please list, describe and quantify all Indirect impacts related to this one.

36. Please list and quantify every OTHER IMPACT - this impact or mitigation could increase.

37. Please describe the EXISTING USABLE limit of the RESOURCE this impact affects.

38. Please state the METHOD of measurement used to determine the limit of the RESOURCE this impact affects.

39. Please describe the MARGIN of ERROR or confidence level used to measure how much of this resource is left.

40. Please state whether the margin of error is measured or assumed.

41. Please quantify what is the maximum amount (in AMOUNT of existing) of this resource that can be lost and still be restored.

42. Please quantify what is the MAXIMUM amount (in PERCENTAGE of existing) of this resource that can be LOST and still be restored.

43. Please name each EXPERT who prepared and reviewed this impact.

44. Please cite each expert's training, and peer reviewed, validly published articles specific to this impact.

45. Please provide AVOIDANCE MITIGATION for this impact.

46. Please provide the reverse of this impact as Mitigation.

47. Please provide an ALTERNATIVE which avoids this impact.

48. Please list all other studies initiated by the applicant related to this impact, including subject matter breadth, author's names and dates and where they can be examined.

* 314 - SOIL AGE.

The Document appears to have ignored this potentially significant Impact. Please carefully analyze and disclose the potential impacts of Soil Age.

If you claim the document contains proof of no-significant-impact for this impact please explicitly state the page number and paragraph.

The soils in Monterey Peninsula's Jeffers Forest are estimated to be at least 750,000 years old and more likely one million years old.

QUANTIFICATION OF BASELINES AND IMPACTS:

This impact appears to be potentially significant.

1a. Please clearly identify by NAME and describe each of the objective (non-subjective) CRITERIA used to determine the impact significance of Soil Age.

1b. If no objective criteria are used please state that clearly.

2. If no objective criteria are used please clearly describe how the threshold of significance chosen is scientifically testable, repeatable, falsifiable, credible and defensible.

3a. Please state the NAME of the MEASUREMENT UNITS (numbers) used to determine the significance for EACH criteria.

3b. Please quote the definition used.

4. If no measurement units are used please state that clearly.

5a. Please state the METHOD of measurement used to determine the significance for each criteria.

5b. If no method of measurement was used please state that clearly for each criteria and explain thoroughly how the data was obtained.

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8. Please state the VARIANCE or fluctuation, assumed or expected for each of the criteria listed above.

9. Please state the variance's MARGINS of ERROR or confidence level.

10. Please state whether this MARGIN of ERROR is measured or assumed.

11. If an average is used, please state which kind of average.

12. Please state the most extreme values which could be encountered.

13. Please describe and quantify which criteria and ASSUMPTIONS the Impact Significance predictions are most SENSITIVE.

14. Please analyze and quantify how sensitive those predictions are to reasonably foreseeable varying criteria and assumptions.

15. Please provide a graph of HISTORICAL measurements.

16. Please quantify the length of time this impact would last.

17. Please quantify how this impact would vary over that time period. Please use a graph for clarity.

18. Please state the THRESHOLD number at which the impact changes from significant to less-than-significant and the clear criteria and rationale for that number.

19. Please provide the MARGIN of ERROR used (in percent and absolute amount) for measuring the Significance THRESHOLD Level.

20§. Please state whether this MARGIN of ERROR is measured or assumed.

20b. If no margin of error is used please state that clearly.

21. Please disclose all threshold numbers at which the impact changes from LEGAL to ILLEGAL for ALL related and potentially relevant local, state and federal laws.

22. Some Impacts increase in a LINEAR RELATIONSHIP with increasing input, other impacts have complex non-linear relationships. Please provide a graph that shows whether the relationship is linear or otherwise - when at and near the significance threshold
values.

23. Please quantify the total PERCENT MAXIMUM CHANGE, to which the IMPACT could raise or lower the baseline number and its MARGIN of ERROR or confidence levels.

24. Please state whether the MARGIN of ERROR is measured or assumed.

25. Please state whether this total PERCENT maximum change is an AVERAGE amount, a worst case expected or a best case expected.

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30 Please describe all potential CUMULATIVE impacts related to this one.

31. Please quantify all potential CUMULATIVE impacts related to this one.

32. Please list, describe and quantify all potential compound and synergetic impacts.

33. Please list, describe and quantify all Construction impacts related to this one.

34. Please list, describe and quantify all Growth impacts related to this one.

35. Please list, describe and quantify all Indirect impacts related to this one.

36. Please list and quantify every OTHER IMPACT - this impact or mitigation could increase.

37. Please describe the EXISTING USABLE limit of the RESOURCE this impact affects.

38. Please state the METHOD of measurement used to determine the limit of the RESOURCE this impact affects.

39. Please describe the MARGIN of ERROR or confidence level used to measure how much of this resource is left.

40. Please state whether the margin of error is measured or assumed.

41. Please quantify what is the maximum amount (in AMOUNT of existing) of this resource that can be lost and still be restored.

42. Please quantify what is the MAXIMUM amount (in PERCENTAGE of existing) of this resource that can be LOST and still be restored.

43. Please name each EXPERT who prepared and reviewed this impact.

44. Please cite each expert's training, and peer reviewed, validly published articles specific to this impact.

45. Please provide AVOIDANCE MITIGATION for this impact.

46. Please provide the reverse of this impact as Mitigation.

47. Please provide an ALTERNATIVE which avoids this impact.

48. Please list all other studies initiated by the applicant related to this impact, including subject matter breadth, author's names and dates and where they can be examined.

* 315 - ECOSYSTEM AGE.

The Document appears to have ignored this potentially significant impact. Please carefully analyze and disclose the potential impacts of Ecosystem Age.

If you claim the document contains proof of no-significant-impact for this impact please explicitly state the page number and paragraph.

Ecosystems typically take tens of thousands of years to establish and stabilize. Some ecosystems can take millions of years to establish. Considering the age of some tree species at 4,000 to 5,000 years, ten thousand years is only two generations.

It can take 5000 years to produce five inches of topsoil. - Audubon, Almanac of the Environment, 1994

QUANTIFICATION OF BASELINES AND IMPACTS:

This impact appears to be potentially significant.

1a. Please clearly identify by NAME and describe each of the objective (non-subjective) CRITERIA used to determine the impact significance of Ecosystem Age.

1b. If no objective criteria are used please state that clearly.

2. If no objective criteria are used please clearly describe how the threshold of significance chosen is scientifically testable, repeatable, falsifiable, credible and defensible.

3a. Please state the NAME of the MEASUREMENT UNITS (numbers) used to determine the significance for EACH criteria.

3b. Please quote the definition used.

4. If no measurement units are used please state that clearly.

5a. Please state the METHOD of measurement used to determine the significance for each criteria.

5b. If no method of measurement was used please state that clearly for each criteria and explain thoroughly how the data was obtained.

6. Please quantify the existing or current BASELINE measurement (level) for each criteria.

7. Please state its MARGIN of ERROR or a confidence level and whether the MARGIN of ERROR is measured or assumed.

8. Please state the VARIANCE or fluctuation, assumed or expected for each of the criteria listed above.

9. Please state the variance's MARGINS of ERROR or confidence level.

10. Please state whether this MARGIN of ERROR is measured or assumed.

11. If an average is used, please state which kind of average.

12. Please state the most extreme values which could be encountered.

13. Please describe and quantify which criteria and ASSUMPTIONS the Impact Significance predictions are most SENSITIVE.

14. Please analyze and quantify how sensitive those predictions are to reasonably foreseeable varying criteria and assumptions.

15. Please provide a graph of HISTORICAL measurements.

16. Please quantify the length of time this impact would last.

17. Please quantify how this impact would vary over that time period. Please use a graph for clarity.

18. Please state the THRESHOLD number at which the impact changes from significant to less-than-significant and the clear criteria and rationale for that number.

19. Please provide the MARGIN of ERROR used (in percent and absolute amount) for measuring the Significance THRESHOLD Level.

20a. Please state whether this MARGIN of ERROR is measured or assumed.

20b. If no margin of error is used please state that clearly.

21. Please disclose all threshold numbers at which the impact changes from LEGAL to ILLEGAL for ALL related and potentially relevant local, state and federal laws.

22. Some Impacts increase in a LINEAR RELATIONSHIP with increasing input, other impacts have complex non-linear relationships. Please provide a graph that shows whether the relationship is linear or otherwise - when at and near the significance threshold values.

23. Please quantify the total PERCENT MAXIMUM CHANGE, to which the IMPACT could raise or lower the baseline number and its MARGIN of ERROR or confidence levels.

24. Please state whether the MARGIN of ERROR is measured or assumed.

25. Please state whether this total PERCENT maximum change is an AVERAGE amount, a worst case expected or a best case expected.

26. Please quantify the ABSOLUTE MAXIMUM AMOUNT, to which the impact would raise or lower the baseline number and its MARGIN of ERROR or confidence levels.

27. Please state whether the MARGIN of ERROR is measured or assumed.

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29. Please list all potential CUMULATIVE impacts related to this one.

30 Please describe all potential CUMULATIVE impacts related to this one.

31. Please quantify all potential CUMULATIVE impacts related to this one.

32. Please list, describe and quantify all potential compound and synergetic impacts.

33. Please list, describe and quantify all Construction impacts related to this one.

34. Please list, describe and quantify all Growth impacts related to this one.

35. Please list, describe and quantify all Indirect impacts related to this one.

36. Please list and quantify every OTHER IMPACT - this impact or mitigation could increase.

37. Please describe the EXISTING USABLE limit of the RESOURCE this impact affects.

38. Please state the METHOD of measurement used to determine the limit of the RESOURCE this impact affects.

39. Please describe the MARGIN of ERROR or confidence level used to measure how much of this resource is left.

40. Please state whether the margin of error is measured or assumed.

41. Please quantify what is the maximum amount (in AMOUNT of existing) of this resource that can be lost and still be restored.

42. Please quantify what is the MAXIMUM amount (in PERCENTAGE of existing) of this resource that can be LOST and still be restored.

43. Please name each EXPERT who prepared and reviewed this impact.

44. Please cite each expert's training, and peer reviewed, validly published articles specific to this impact.

45. Please provide AVOIDANCE MITIGATION for this impact.

46. Please provide the reverse of this impact as Mitigation.

47. Please provide an ALTERNATIVE which avoids this impact.

48. Please list all other studies initiated by the applicant related to this impact, including subject matter breadth, author's names and dates and where they can be examined.

* 316 - SCHOOLS.

The Document appears to have ignored this potentially significant Impact. Please carefully analyze and disclose the project's potential impacts on Schools.

If you claim the document contains proof of no-significant-impact for this impact please explicitly state the page number and paragraph.

Noises and smells can distract from the purpose of schools.

QUANTIFICATION OF BASELINES AND IMPACTS:

This impact appears to be potentially significant.

1a. Please clearly identify by NAME and describe each of the objective (non-subjective) CRITERIA used to determine the impact significance on Schools.

1b. If no objective criteria are used please state that clearly.

2. If no objective criteria are used please clearly describe how the threshold of significance chosen is scientifically testable, repeatable, falsifiable, credible and defensible.

3a. Please state the NAME of the MEASUREMENT UNITS (numbers) used to determine the significance for EACH criteria.

3b. Please quote the definition used.

4. If no measurement units are used please state that clearly.

5a. Please state the METHOD of measurement used to determine the significance for each criteria.

5b. If no method of measurement was used please state that clearly for each criteria and explain thoroughly how the data was obtained.

6. Please quantify the existing or current BASELINE measurement (level) for each criteria.

7. Please state its MARGIN of ERROR or a confidence level and whether the MARGIN of ERROR is measured or assumed.

8. Please state the VARIANCE or fluctuation, assumed or expected for each of the criteria listed above.

9. Please state the variance's MARGINS of ERROR or confidence level.

10. Please state whether this MARGIN of ERROR is measured or assumed.

11. If an average is used, please state which kind of average.

12. Please state the most extreme values which could be encountered.

13. Please describe and quantify which criteria and ASSUMPTIONS the Impact Significance predictions are most SENSITIVE.

14. Please analyze and quantify how sensitive those predictions are to reasonably foreseeable varying criteria and assumptions.

15. Please provide a graph of HISTORICAL measurements.

16. Please quantify the length of time this impact would last.

17. Please quantify how this Impact would vary over that time period. Please use a graph for clarity.

18. Please state the THRESHOLD number at which the impact changes from significant to less-than-significant and the clear criteria and rationale for that number.

19. Please provide the MARGIN of ERROR used (in percent and absolute amount) for measuring the Significance THRESHOLD Level.

20s. Please state whether this MARGIN of ERROR is measured or assumed.

20b. If no margin of error is used please state that clearly.

21. Please disclose all threshold numbers at which the impact changes from LEGAL to ILLEGAL for ALL related and potentially relevant local, state and federal laws.

22. Some Impacts increase in a LINEAR RELATIONSHIP with increasing input, other impacts have complex non-linear relationships. Please provide a graph that shows whether the relationship is linear or otherwise - when at and near the significance threshold values.

23. Please quantify the total PERCENT MAXIMUM CHANGE, to which the IMPACT could raise or lower the baseline number and its MARGIN of ERROR or confidence levels.

24. Please state whether the MARGIN of ERROR is measured or assumed.

25. Please state whether this total PERCENT maximum change is an AVERAGE amount, a worst case expected or a best case expected.

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37. Please describe the EXISTING USABLE limit of the RESOURCE this impact affects.

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46. Please provide the reverse of this impact as Mitigation.

47. Please provide an ALTERNATIVE which avoids this impact.

48. Please list all other studies initiated by the applicant related to this impact, including subject matter breadth, author's names and dates and where they can be examined.

* 317 - LIBRARIES.

The Document appears to have ignored this potentially significant Impact. Please carefully analyze and disclose the project's potential impacts on Libraries.

If you claim the document contains proof of no-significant-impact for this impact please explicitly state the page number and paragraph.

Noises and smells can distract from the purpose of libraries.

QUANTIFICATION OF BASELINES AND IMPACTS:

This impact appears to be potentially significant.

1a. Please clearly identify by NAME and describe each of the objective (non-subjective) CRITERIA used to determine the impact significance on Libraries.

1b. If no objective criteria are used please state that clearly.

2. If no objective criteria are used please clearly describe how the threshold of significance chosen is scientifically testable, repeatable, falsifiable, credible and defensible.

3a. Please state the NAME of the MEASUREMENT UNITS (numbers) used to determine the significance for EACH criteria.

3b. Please quote the definition used.

4. If no measurement units are used please state that clearly.

5a. Please state the METHOD of measurement used to determine the significance for each criteria.

5b. If no method of measurement was used please state that clearly for each criteria and explain thoroughly how the data was obtained.

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8. Please state the VARIANCE or fluctuation, assumed or expected for each of the criteria listed above.

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10. Please state whether this MARGIN of ERROR is measured or assumed.

11. If an average is used, please state which kind of average.

12. Please state the most extreme values which could be encountered.

13. Please describe and quantify which criteria and ASSUMPTIONS the Impact Significance predictions are most SENSITIVE.

14. Please analyze and quantify how sensitive those predictions are to reasonably foreseeable varying criteria and assumptions.

15. Please provide a graph of HISTORICAL measurements.

16. Please quantify the length of time this impact would last.

17. Please quantify how this impact would vary over that time period. Please use a graph for clarity.

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values.

23. Please quantify the total PERCENT MAXIMUM CHANGE, to which the IMPACT could raise or lower the baseline number and its MARGIN of ERROR or confidence levels.

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25. Please state whether this total PERCENT maximum change is an AVERAGE amount, a worst case expected or a best case expected.

26. Please quantify the ABSOLUTE MAXIMUM AMOUNT, to which the impact would raise or lower the baseline number and its MARGIN of ERROR or confidence levels.

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37. Please describe the EXISTING USABLE limit of the RESOURCE this impact affects.

38. Please state the METHOD of measurement used to determine the limit of the RESOURCE this impact affects.

39. Please describe the MARGIN of ERROR or confidence level used to measure how much of this resource is left.

40. Please state whether the margin of error is measured or assumed.

41. Please quantify what is the maximum amount (in AMOUNT of existing) of this resource that can be lost and still be restored.

42. Please quantify what is the MAXIMUM amount (in PERCENTAGE of existing) of this resource that can be LOST and still be restored.

43. Please name each EXPERT who prepared and reviewed this impact.

44. Please cite each expert's training, and peer reviewed, validly published articles specific to this impact.

45. Please provide AVOIDANCE MITIGATION for this impact.

46. Please provide the reverse of this impact as Mitigation.

47. Please provide an ALTERNATIVE which avoids this impact.

48. Please list all other studies initiated by the applicant related to this impact, including subject matter breadth, author's names and dates and where they can be examined.

-

* 318 - IMMOBILE POPULATIONS.

The Document appears to have ignored this potentially significant Impact. Please carefully analyze and disclose the project's potential impacts on Immobile Populations.

If you claim the document contains proof of no-significant-impact for this impact please explicitly state the page number and paragraph.

Immobile populations include schools, hospitals, convalescent homes, prisons, facilities for the mentally ill, dwellings where residents cannot leave the area without assistance from other people.

Noise, Hazardous Waste and Air Pollution can harm these populations who are helpless to get out of harm's way - let alone object.

QUANTIFICATION OF BASELINES AND IMPACTS:

This impact appears to be potentially significant.

1a. Please clearly identify by NAME and describe each of the objective (non-subjective) CRITERIA used to determine the impact significance on Immobile Populations.

1b. If no objective criteria are used please state that clearly.

2. If no objective criteria are used please clearly describe how the threshold of significance chosen is scientifically testable, repeatable, falsifiable, credible and defensible.

3a. Please state the NAME of the MEASUREMENT UNITS (numbers) used to determine the significance for EACH criteria.

3b. Please quote the definition used.

4. If no measurement units are used please state that clearly.

5a. Please state the METHOD of measurement used to determine the significance for each criteria.

5b. If no method of measurement was used please state that clearly for each criteria and explain thoroughly how the data was obtained.

6. Please quantify the existing or current BASELINE measurement (level) for each criteria.

7. Please state its MARGIN of ERROR or a confidence level and whether the MARGIN of ERROR is measured or assumed.

8. Please state the VARIANCE or fluctuation, assumed or expected for each of the criteria listed above.

9. Please state the variance's MARGINS of ERROR or confidence level.

10. Please state whether this MARGIN of ERROR is measured or assumed.

11. If an average is used, please state which kind of average.

12. Please state the most extreme values which could be encountered.

13. Please describe and quantify which criteria and ASSUMPTIONS the Impact Significance predictions are most SENSITIVE.

14. Please analyze and quantify how sensitive those predictions are to reasonably foreseeable varying criteria and assumptions.

15. Please provide a graph of HISTORICAL measurements.

16. Please quantify the length of time this impact would last.

17. Please quantify how this impact would vary over that time period. Please use a graph for clarity.

18. Please state the THRESHOLD number at which the impact changes from significant to less-than-significant and the clear criteria and rationale for that number.

19. Please provide the MARGIN of ERROR used (in percent and absolute amount) for measuring the Significance THRESHOLD Level.

20s. Please state whether this MARGIN of ERROR is measured or assumed.

20b. If no margin of error is used please state that clearly.

21. Please disclose all threshold numbers at which the impact changes from LEGAL to ILLEGAL for ALL related and potentially relevant local, state and federal laws.

22. Some Impacts increase in a LINEAR RELATIONSHIP with increasing input, other impacts have complex non-linear relationships. Please provide a graph that shows whether the relationship is linear or otherwise - when at and near the significance threshold
values.

23. Please quantify the total PERCENT MAXIMUM CHANGE, to which the IMPACT could raise or lower the baseline number and its MARGIN of ERROR or confidence levels.

24. Please state whether the MARGIN of ERROR is measured or assumed.

25. Please state whether this total PERCENT maximum change is an AVERAGE amount, a worst case expected or a best case expected.

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27. Please state whether the MARGIN of ERROR is measured or assumed.

28. Please state whether this total maximum change amount is an AVERAGE amount, a worst case expected or a best case expected.

29. Please list all potential CUMULATIVE impacts related to this one.

30 Please describe all potential CUMULATIVE impacts related to this one.

31. Please quantify all potential CUMULATIVE impacts related to this one.

32. Please list, describe and quantify all potential compound and synergetic impacts.

33. Please list, describe and quantify all Construction impacts related to this one.

34. Please list, describe and quantify all Growth impacts related to this one.

35. Please list, describe and quantify all Indirect impacts related to this one.

36. Please list and quantify every OTHER IMPACT - this impact or mitigation could increase.

37. Please describe the EXISTING USABLE limit of the RESOURCE this impact affects.

38. Please state the METHOD of measurement used to determine the limit of the RESOURCE this impact affects.

39. Please describe the MARGIN of ERROR or confidence level used to measure how much of this resource is left.

40. Please state whether the margin of error is measured or assumed.

41. Please quantify what is the maximum amount (in AMOUNT of existing) of this resource that can be lost and still be restored.

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43. Please name each EXPERT who prepared and reviewed this impact.

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46. Please provide the reverse of this impact as Mitigation.

47. Please provide an ALTERNATIVE which avoids this impact.

48. Please list all other studies initiated by the applicant related to this impact, including subject matter breadth, author's names and dates and where they can be examined.

* 319 - UNEDUCATED POPULATIONS.

The Document appears to have ignored this potentially significant impact. Please carefully analyze and disclose the project's potential impacts on Uneducated Populations.

If you claim the document contains proof of no-significant-impact for this impact please explicitly state the page number and paragraph.

Newspaper readership is declining since the 1950s. Project Censored of Sonoma tate University documents how government and corporations intentionally fail to report harms to citizens. The book "Doublespeak" documents how government and corporations
intentionally hide harms to citizens through use of euphimisms.

When the public does not understand the risks to themselves, they do not know to protect themselves or to object to such activities.

QUANTIFICATION OF BASELINES AND IMPACTS:

This impact appears to be potentially significant.

1a. Please clearly identify by NAME and describe each of the objective (non-subjective) CRITERIA used to determine the impact significance on Uneducated Populations.

1b. If no objective criteria are used please state that clearly.

2. If no objective criteria are used please clearly describe how the threshold of significance chosen is scientifically testable, repeatable, falsifiable, credible and defensible.

3a. Please state the NAME of the MEASUREMENT UNITS (numbers) used to determine the significance for EACH criteria.

3b. Please quote the definition used.

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8. Please state the VARIANCE or fluctuation, assumed or expected for each of the criteria listed above.

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10. Please state whether this MARGIN of ERROR is measured or assumed.

11. If an average is used, please state which kind of average.

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14. Please analyze and quantify how sensitive those predictions are to reasonably foreseeable varying criteria and assumptions.

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16. Please quantify the length of time this impact would last.

17. Please quantify how this impact would vary over that time period. Please use a graph for clarity.

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21. Please disclose all threshold numbers at which the impact changes from LEGAL to ILLEGAL for ALL related and potentially relevant local, state and federal laws.

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31. Please quantify all potential CUMULATIVE impacts related to this one.

32. Please list, describe and quantify all potential compound and synergetic impacts.

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34. Please list, describe and quantify all Growth impacts related to this one.

35. Please list, describe and quantify all Indirect impacts related to this one.

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37. Please describe the EXISTING USABLE limit of the RESOURCE this impact affects.

38. Please state the METHOD of measurement used to determine the limit of the RESOURCE this impact affects.

39. Please describe the MARGIN of ERROR or confidence level used to measure how much of this resource is left.

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41. Please quantify what is the maximum amount (in AMOUNT of existing) of this resource that can be lost and still be restored.

42. Please quantify what is the MAXIMUM amount (in PERCENTAGE of existing) of this resource that can be LOST and still be restored.

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44. Please cite each expert's training, and peer reviewed, validly published articles specific to this impact.

45. Please provide AVOIDANCE MITIGATION for this impact.

46. Please provide the reverse of this impact as Mitigation.

47. Please provide an ALTERNATIVE which avoids this impact.

48. Please list all other studies initiated by the applicant related to this impact, including subject matter breadth, author's names and dates and where they can be examined.

* 320 - PIPELINE.

The Document appears to have ignored this potentially significant Impact. Please carefully analyze and disclose the potential impacts of Pipeline.

If you claim the document contains proof of no-significant-impact for this impact please explicitly state the page number and paragraph.

The US has some 2.2 million miles of pipelines carrying natural gas and other hazardous materials. AP June 17, 2000

This project will increase the mileage of natural gas lines in Pebble Beach.

ACCIDENTS - Fires & Explosions Accidents are always a high risk. "An average of 22 people died annually from 1988 to 1998" from pipeline accidents. AP June 17,00

"Forty-two (42) people were killed by natural gas pipeline accidents between 1986 and June 30 (2000), according to statistics of the Office of Pipeline Safety, an agency of the National Transportation Safety Board." AP August, 22, 2000

"Gas pipeline blast kills 10 campers" AP Headline Aug 21, 2000 At Carlsbad NM near the banks of the Pecos river a pipeline 5 to 6 feet underground exploded leaving a crater some 20 feet deep, 86 feet long and 46 feet wide. The eleven (another man died a
few days later) dead people, including five children, were sleeping some 200 feet from the pipeline.

In the early 1990's? in Louisiana 11 people were killed by an explosion caused by a natural gas pipeline leak. If such an explosion happened near GINS, it could harm or kill boaters, island visitors, and wildlife such as the endangered bald eagle.

"Federal Regulators sought a record fine of more than $3 million against Olympic Pipeline Co. for numerous safety violations after two 10-year-old boys and an 18-year-old fisherman died after a pipeline operated by Olympic broke June 10, (1999) spewing
230,000 gallons of gasoline into a Bellingham park. The spilled gasoline ignited an enormous fireball that raced more than a mile down a creek." AP Jun 3, 2000

"Chemicals known to the state of California to cause cancer, birth defects, or other reproductive harm are found in and around facilities that produce, handle transport, store or sell crude oil and petroleum and chemical products. Facilities covered by
this warning include pipeline systems..." Proposition 65 disclosure advertisement, May 2000, by Arco, Chevron, Texaco, Tosco and others.

QUANTIFICATION OF BASELINES AND IMPACTS:

This impact appears to be potentially significant.

1a. Please clearly identify by NAME and describe each of the objective (non-subjective) CRITERIA used to determine the Impact significance of Pipeline.

1b. If no objective criteria are used please state that clearly.

2. If no objective criteria are used please clearly describe how the threshold of significance chosen is scientifically testable, repeatable, falsifiable, credible and defensible.

3a. Please state the NAME of the MEASUREMENT UNITS (numbers) used to determine the significance for EACH criteria.

3b. Please quote the definition used.

4. If no measurement units are used please state that clearly.

5a. Please state the METHOD of measurement used to determine the significance for each criteria.

5b. If no method of measurement was used please state that clearly for each criteria and explain thoroughly how the data was obtained.

6. Please quantify the existing or current BASELINE measurement (level) for each criteria.

7. Please state its MARGIN of ERROR or a confidence level and whether the MARGIN of ERROR is measured or assumed.

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9. Please state the variance's MARGINS of ERROR or confidence level.

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11. If an average is used, please state which kind of average.

12. Please state the most extreme values which could be encountered.

13. Please describe and quantify which criteria and ASSUMPTIONS the Impact Significance predictions are most SENSITIVE.

14. Please analyze and quantify how sensitive those predictions are to reasonably foreseeable varying criteria and assumptions.

15. Please provide a graph of HISTORICAL measurements.

16. Please quantify the length of time this impact would last.

17. Please quantify how this impact would vary over that time period. Please use a graph for clarity.

18. Please state the THRESHOLD number at which the impact changes from significant to less-than-significant and the clear criteria and rationale for that number.

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values.

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34. Please list, describe and quantify all Growth impacts related to this one.

35. Please list, describe and quantify all Indirect impacts related to this one.

36. Please list and quantify every OTHER IMPACT - this impact or mitigation could increase.

37. Please describe the EXISTING USABLE limit of the RESOURCE this impact affects.

38. Please state the METHOD of measurement used to determine the limit of the RESOURCE this impact affects.

39. Please describe the MARGIN of ERROR or confidence level used to measure how much of this resource is left.

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41. Please quantify what is the maximum amount (in AMOUNT of existing) of this resource that can be lost and still be restored.

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44. Please cite each expert's training, and peer reviewed, validly published articles specific to this impact.

45. Please provide AVOIDANCE MITIGATION for this impact.

46. Please provide the reverse of this impact as Mitigation.

47. Please provide an ALTERNATIVE which avoids this impact.

48. Please list all other studies initiated by the applicant related to this impact, including subject matter breadth, author's names and dates and where they can be examined.

* 321 - INTRINSIC VALUE.

The Document appears to have ignored this potentially significant Impact. Please carefully analyze and disclose the potential impacts of Intrinsic Value.

If you claim the document contains proof of no-significant-impact for this impact please explicitly state the page number and paragraph.

Establishing value of environmental aspects merely in terms of use to humans such as economic value or even ecological roles is too narrow.

The very existence of a life form gives it the right to survive.

We do have aliens here on Earth, astounding unfamiliar life forms. They're right in front of us in every forest, wetland and under the sea.

We have Zero evidence of any life anywhere else in the Universe. Most life forms we do know of took Billions of years and millions of generations to get to their present form.

QUANTIFICATION OF BASELINES AND IMPACTS:

This impact appears to be potentially significant.

1a. Please clearly identify by NAME and describe each of the objective (non-subjective) CRITERIA used to determine the impact significance of Intrinsic Value.

1b. If no objective criteria are used please state that clearly.

2. If no objective criteria are used please clearly describe how the threshold of significance chosen is scientifically testable, repeatable, falsifiable, credible and defensible.

3a. Please state the NAME of the MEASUREMENT UNITS (numbers) used to determine the significance for EACH criteria.

3b. Please quote the definition used.

4. If no measurement units are used please state that clearly.

5a. Please state the METHOD of measurement used to determine the significance for each criteria.

5b. If no method of measurement was used please state that clearly for each criteria and explain thoroughly how the data was obtained.

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7. Please state its MARGIN of ERROR or a confidence level and whether the MARGIN of ERROR is measured or assumed.

8. Please state the VARIANCE or fluctuation, assumed or expected for each of the criteria listed above.

9. Please state the variance's MARGINS of ERROR or confidence level.

10. Please state whether this MARGIN of ERROR is measured or assumed.

11. If an average is used, please state which kind of average.

12. Please state the most extreme values which could be encountered.

13. Please describe and quantify which criteria and ASSUMPTIONS the Impact Significance predictions are most SENSITIVE.

14. Please analyze and quantify how sensitive those predictions are to reasonably foreseeable varying criteria and assumptions.

15. Please provide a graph of HISTORICAL measurements.

16. Please quantify the length of time this impact would last.

17. Please quantify how this impact would vary over that time period. Please use a graph for clarity.

18. Please state the THRESHOLD number at which the impact changes from significant to less-than-significant and the clear criteria and rationale for that number.

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21. Please disclose all threshold numbers at which the impact changes from LEGAL to ILLEGAL for ALL related and potentially relevant local, state and federal laws.

22. Some Impacts increase in a LINEAR RELATIONSHIP with increasing input, other impacts have complex non-linear relationships. Please provide a graph that shows whether the relationship is linear or otherwise - when at and near the significance threshold values.

23. Please quantify the total PERCENT MAXIMUM CHANGE, to which the IMPACT could raise or lower the baseline number and its MARGIN of ERROR or confidence levels.

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31. Please quantify all potential CUMULATIVE impacts related to this one.

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41. Please quantify what is the maximum amount (in AMOUNT of existing) of this resource that can be lost and still be restored.

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46. Please provide the reverse of this impact as Mitigation.

47. Please provide an ALTERNATIVE which avoids this impact.

48. Please list all other studies initiated by the applicant related to this impact, including subject matter breadth, author's names and dates and where they can be examined.

* 322 - ANIMAL BIOMASS.

The Document appears to have ignored this potentially significant Impact. Please carefully analyze and disclose the potential impacts of Animal Biomass.

If you claim the document contains proof of no-significant-impact for this impact please explicitly state the page number and paragraph.

QUANTIFICATION OF BASELINES AND IMPACTS:

This impact appears to be potentially significant.

1a. Please clearly identify by NAME and describe each of the objective (non-subjective) CRITERIA used to determine the impact significance of Animal Biomass.

1b. If no objective criteria are used please state that clearly.

2. If no objective criteria are used please clearly describe how the threshold of significance chosen is scientifically testable, repeatable, falsifiable, credible and defensible.

3a. Please state the NAME of the MEASUREMENT UNITS (numbers) used to determine the significance for EACH criteria.

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* 323 - ANIMAL BIOMASS TO VEGETATION BIOMASS RATIO.

The Document appears to have ignored this potentially significant Impact. Please carefully analyze and disclose the potential impacts of Animal Biomass to Vegetation Biomass Ratio.

If you claim the document contains proof of no-significant-Impact for this impact please explicitly state the page number and paragraph.

QUANTIFICATION OF BASELINES AND IMPACTS:

This impact appears to be potentially significant.

1a. Please clearly identify by NAME and describe each of the objective (non-subjective) CRITERIA used to determine the impact significance of Animal Biomass to Vegetation Biomass Ratio.

1b. If no objective criteria are used please state that clearly.

2. If no objective criteria are used please clearly describe how the threshold of significance chosen is scientifically testable, repeatable, falsifiable, credible and defensible.

3a. Please state the NAME of the MEASUREMENT UNITS (numbers) used to determine the significance for EACH criteria.

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5a. Please state the METHOD of measurement used to determine the significance for each criteria.

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21. Please disclose all threshold numbers at which the impact changes from LEGAL to ILLEGAL for ALL related and potentially relevant local, state and federal laws.

22. Some impacts increase in a LINEAR RELATIONSHIP with increasing input, other impacts have complex non-linear relationships. Please provide a graph that shows whether the relationship is linear or otherwise - when at and near the significance threshold
values.

23. Please quantify the total PERCENT MAXIMUM CHANGE, to which the IMPACT could raise or lower the baseline number and its MARGIN of ERROR or confidence levels.

24. Please state whether the MARGIN of ERROR is measured or assumed.

25. Please state whether this total PERCENT maximum change is an AVERAGE amount, a worst case expected or a best case expected.

26. Please quantify the ABSOLUTE MAXIMUM AMOUNT, to which the impact would raise or lower the baseline number and its MARGIN of ERROR or confidence levels.

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36. Please list and quantify every OTHER IMPACT - this impact or mitigation could increase.

37. Please describe the EXISTING USABLE limit of the RESOURCE this impact affects.

38. Please state the METHOD of measurement used to determine the limit of the RESOURCE this impact affects.

39. Please describe the MARGIN of ERROR or confidence level used to measure how much of this resource is left.

40. Please state whether the margin of error is measured or assumed.

41. Please quantify what is the maximum amount (in AMOUNT of existing) of this resource that can be lost and still be restored.

42. Please quantify what is the MAXIMUM amount (in PERCENTAGE of existing) of this resource that can be LOST and still be restored.

43. Please name each EXPERT who prepared and reviewed this impact.

44. Please cite each expert's training, and peer reviewed, validly published articles specific to this impact.

45. Please provide AVOIDANCE MITIGATION for this impact.

46. Please provide the reverse of this impact as Mitigation.

47. Please provide an ALTERNATIVE which avoids this impact.

48. Please list all other studies initiated by the applicant related to this impact, including subject matter breadth, author's names and dates and where they can be examined.

" 324 - LIVING BIOMASS LOSS - TREE CUTTING WITHOUT REMOVAL.

The Document appears to have ignored this potentially significant impact. Please carefully analyze and disclose the potential impacts of Living Biomass Loss - Tree Cutting Without Removal.

If you claim the document contains proof of no-significant-impact for this impact please explicitly state the page number and paragraph.

Utility Corporations often cut trees without removing them from their native location. While such activity is not a local physical biomass loss, killing the trees is a loss of living biomass.

QUANTIFICATION OF BASELINES AND IMPACTS:

This impact appears to be potentially significant.

1a. Please clearly identify by NAME and describe each of the objective (non-subjective) CRITERIA used to determine the impact significance of Living Biomass Loss - Tree Cutting Without Removal.

1b. If no objective criteria are used please state that clearly.

2. If no objective criteria are used please clearly describe how the threshold of significance chosen is scientifically testable, repeatable, falsifiable, credible and defensible.

3a. Please state the NAME of the MEASUREMENT UNITS (numbers) used to determine the significance for EACH criteria.

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9. Please state the variance's MARGINS of ERROR or confidence level.

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12. Please state the most extreme values which could be encountered.

13. Please describe and quantify which criteria and ASSUMPTIONS the Impact Significance predictions are most SENSITIVE.

14. Please analyze and quantify how sensitive those predictions are to reasonably foreseeable varying criteria and assumptions.

15. Please provide a graph of HISTORICAL measurements.

16. Please quantify the length of time this impact would last.

17. Please quantify how this impact would vary over that time period. Please use a graph for clarity.

18. Please state the THRESHOLD number at which the impact changes from significant to less-than-significant and the clear criteria and rationale for that number.

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20s. Please state whether this MARGIN of ERROR is measured or assumed.

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46. Please provide the reverse of this impact as Mitigation.

47. Please provide an ALTERNATIVE which avoids this impact.

48. Please list all other studies initiated by the applicant related to this impact, including subject matter breadth, author's names and dates and where they can be examined.

* 325 - FOREST BIOMASS.

The Document appears to have ignored this potentially significant impact. Please carefully analyze and disclose the potential impacts of Forest Biomass.

If you claim the document contains proof of no-significant-impact for this impact please explicitly state the page number and paragraph.

While a typical old growth forest biomass is some 400 tons per acre, an old growth redwood forest can easily have a biomass of 1800 tons per acre. A rainforest typically contains some 180 tons of biomass per acre.

QUANTIFICATION OF BASELINES AND IMPACTS:

This impact appears to be potentially significant.

1a. Please clearly identify by NAME and describe each of the objective (non-subjective) CRITERIA used to determine the impact significance of Forest Biomass.

1b. If no objective criteria are used please state that clearly.

2. If no objective criteria are used please clearly describe how the threshold of significance chosen is scientifically testable, repeatable, falsifiable, credible and defensible.

3a. Please state the NAME of the MEASUREMENT UNITS (numbers) used to determine the significance for EACH criteria.

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47. Please provide an ALTERNATIVE which avoids this impact.

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* 326 - SOIL BIOMASS.

The Document appears to have ignored this potentially significant impact. Please carefully analyze and disclose the potential impacts of Soil Biomass.

If you claim the document contains proof of no-significant-impact for this impact please explicitly state the page number and paragraph.

Each acre of soil can contain some two tons of microorganisms including Molds (2000 pounds), Bacteria (1000 pounds), Actinomycetes (1000 pounds), Protozoa (200 pounds), Algae (100 pounds), Yeasts (100 pounds) and Viruses. Other forms of life in soil include plant roots, earthworms, mites and insects. Encyclopedia of Biological Sciences, Gray, 1961 McGraw-Hill

QUANTIFICATION OF BASELINES AND IMPACTS:

This impact appears to be potentially significant.

1a. Please clearly identify by NAME and describe each of the objective (non-subjective) CRITERIA used to determine the impact significance of Soil Biomass.

1b. If no objective criteria are used please state that clearly.

2. If no objective criteria are used please clearly describe how the threshold of significance chosen is scientifically testable, repeatable, falsifiable, credible and defensible.

3a. Please state the NAME of the MEASUREMENT UNITS (numbers) used to determine the significance for EACH criteria.

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* 327 - WILD-LIFE HABITAT LOSS.

The Document appears to have ignored this potentially significant Impact. Please carefully analyze and disclose the potential Impacts of Wild-Life Habitat Loss.

If you claim the document contains proof of no-significant-impact for this impact please explicitly state the page number and paragraph.

"Most wildlife populations extinguished by humans were eliminated by accident, often in spite of vigorous attempts to avert the extinction. In contrast most premeditated attempts to destroy a population have been unsuccessful. The paradox is less puzzling when it is realized that unplanned exterminations are usually caused by a a change in the animal's habitat, whereas the planned attempts are usually aimed at the animals themselves. The message is clear: populations are more vulnerable to a manipulatoin of their habitat than they are to the direct manipulation of their numbers. An environment change tends to affect one or more of the habitat components (food, cover, water and space); and, when this change isdeleterious, the population cannot necessarily adjust to it by lowering density..." Caughley 1978. Analysis of vertebrate populations, p 200 John Wiley & Sons cited by California Department of Fish and Game "Furbearing and Nongame Mammal Trapping" ED, April 6, 2001

QUANTIFICATION OF BASELINES AND IMPACTS:

This impact appears to be potentially significant.

1a. Please clearly identify by NAME and describe each of the objective (non-subjective) CRITERIA used to determine the impact significance of Wild-Life Habitat Loss.

1b. If no objective criteria are used please state that clearly.

2. If no objective criteria are used please clearly describe how the threshold of significance chosen is scientifically testable, repeatable, falsifiable, credible and defensible.

3a. Please state the NAME of the MEASUREMENT UNITS (numbers) used to determine the significance for EACH criteria.

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46. Please provide the reverse of this impact as Mitigation.

47. Please provide an ALTERNATIVE which avoids this impact.

48. Please list all other studies initiated by the applicant related to this impact, including subject matter breadth, author's names and dates and where they can be examined.

* 328 - WILD-LAND HABITAT LOSS.

The Document appears to have ignored this potentially significant Impact. Please carefully analyze and disclose the potential impacts of Wild-Land Habitat Loss.

If you claim the document contains proof of no-significant-impact for this impact please explicitly state the page number and paragraph.

QUANTIFICATION OF BASELINES AND IMPACTS:

This impact appears to be potentially significant.

1a. Please clearly identify by NAME and describe each of the objective (non-subjective) CRITERIA used to determine the impact significance of Wild-Land Habitat Loss.

1b. If no objective criteria are used please state that clearly.

2. If no objective criteria are used please clearly describe how the threshold of significance chosen is scientifically testable, repeatable, falsifiable, credible and defensible.

3a. Please state the NAME of the MEASUREMENT UNITS (numbers) used to determine the significance for EACH criteria.

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* 329 - HABITAT - LOSS / DESTRUCTION / MODIFICATION OR RESTRICTION.

The Document appears to have ignored this potentially significant Impact. Please carefully analyze and disclose the potential impacts of Habitat - Loss / Destruction / Modification or Restriction.

If you claim the document contains proof of no-significant-impact for this impact please explicitly state the page number and paragraph.

QUANTIFICATION OF BASELINES AND IMPACTS:

This impact appears to be potentially significant.

1a. Please clearly identify by NAME and describe each of the objective (non-subjective) CRITERIA used to determine the impact significance of Habitat - Loss / Destruction / Modification or Restriction.

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15. Please provide a graph of HISTORICAL measurements.

16. Please quantify the length of time this impact would last.

17. Please quantify how this impact would vary over that time period. Please use a graph for clarity.

18. Please state the THRESHOLD number at which the impact changes from significant to less-than-significant and the clear criteria and rationale for that number.

19. Please provide the MARGIN of ERROR used (in percent and absolute amount) for measuring the Significance THRESHOLD Level.

20s. Please state whether this MARGIN of ERROR is measured or assumed.

20b. If no margin of error is used please state that clearly.

21. Please disclose all threshold numbers at which the impact changes from LEGAL to ILLEGAL for ALL related and potentially relevant local, state and federal laws..

22. Some Impacts increase in a LINEAR RELATIONSHIP with increasing input, other impacts have complex non-linear relationships. Please provide a graph that shows whether the relationship is linear or otherwise - when at and near the significance threshold
values.

23. Please quantify the total PERCENT MAXIMUM CHANGE, to which the IMPACT could raise or lower the baseline number and its MARGIN of ERROR or confidence levels.

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25. Please state whether this total PERCENT maximum change is an AVERAGE amount, a worst case expected or a best case expected.

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35. Please list, describe and quantify all Indirect impacts related to this one.

36. Please list and quantify every OTHER IMPACT - this impact or mitigation could increase.

37. Please describe the EXISTING USABLE limit of the RESOURCE this impact affects.

38. Please state the METHOD of measurement used to determine the limit of the RESOURCE this impact affects.

39. Please describe the MARGIN of ERROR or confidence level used to measure how much of this resource is left.

40. Please state whether the margin of error is measured or assumed.

41. Please quantify what is the maximum amount (in AMOUNT of existing) of this resource that can be lost and still be restored.

42. Please quantify what is the MAXIMUM amount (in PERCENTAGE of existing) of this resource that can be LOST and still be restored.

43. Please name each EXPERT who prepared and reviewed this impact.

44. Please cite each expert's training, and peer reviewed, validly published articles specific to this impact.

45. Please provide AVOIDANCE MITIGATION for this impact.

46. Please provide the reverse of this impact as Mitigation.

47. Please provide an ALTERNATIVE which avoids this impact.

48. Please list all other studies initiated by the applicant related to this impact, including subject matter breadth, author's names and dates and where they can be examined.

330 - ECOTONES.

The Document appears to have ignored this potentially significant Impact. Please carefully analyze and disclose the potential impacts of Ecotones.

If you claim the document contains proof of no-significant-impact for this impact please explicitly state the page number and paragraph.

An ecotone is the area between two dramatically different ecosystems. It is marked by a greater number of species and higher population densities. It often contains species which do not exist in either adjoining ecosystem.

A marsh or a wetland is an ecotone between the open water of a lake and the land. Another ecotone is the margin between a forest and a meadow.

QUANTIFICATION OF BASELINES AND IMPACTS:

This impact appears to be potentially significant.

1a. Please clearly identify by NAME and describe each of the objective (non-subjective) CRITERIA used to determine the impact significance of Ecotones.

1b. If no objective criteria are used please state that clearly.

2. If no objective criteria are used please clearly describe how the threshold of significance chosen is scientifically testable, repeatable, falsifiable, credible and defensible.

3a. Please state the NAME of the MEASUREMENT UNITS (numbers) used to determine the significance for EACH criteria.

3b. Please quote the definition used.

4. If no measurement units are used please state that clearly.

5a. Please state the METHOD of measurement used to determine the significance for each criteria.

5b. If no method of measurement was used please state that clearly for each criteria and explain thoroughly how the data was obtained.

6. Please quantify the existing or current BASELINE measurement (level) for each criteria.

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8. Please state the VARIANCE or fluctuation, assumed or expected for each of the criteria listed above.

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12. Please state the most extreme values which could be encountered.

13. Please describe and quantify which criteria and ASSUMPTIONS the Impact Significance predictions are most SENSITIVE.

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21. Please disclose all threshold numbers at which the impact changes from LEGAL to ILLEGAL for ALL related and potentially relevant local, state and federal laws.

22. Some Impacts increase in a LINEAR RELATIONSHIP with increasing input, other impacts have complex non-linear relationships. Please provide a graph that shows whether the relationship is linear or otherwise - when at and near the significance threshold values.

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46. Please provide the reverse of this impact as Mitigation.

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48. Please list all other studies initiated by the applicant related to this impact, including subject matter breadth, author's names and dates and where they can be examined.

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* 331 - TREE CANOPY FOG CAPTURE LOSS.

The Document appears to have ignored this potentially significant impact. Please carefully analyze and disclose the project's potential impacts on Tree Canopy Fog Capture Loss.

If you claim the document contains proof of no-significant-impact for this impact please explicitly state the page number and paragraph.

Fog drip provides as much as 45 percent of a redwood's annual water use. Some understory plants depend completely on fog drip. In a 3 year study, in an intact redwood forest 34 percent of the hydrologic input per year came from fog drip. After logging
the fog drip contribution dropped to 17 percent. Oecologica, January 1999, Todd Dawson, Cornell University

"Studies in northern California have found that fog drip can add as much as 26 cm of precipitation to the annual total in redwood forests." Big Sur Natural History, Henson & Usner, 1993

QUANTIFICATION OF BASELINES AND IMPACTS:

This impact appears to be potentially significant.

1a. Please clearly identify by NAME and describe each of the objective (non-subjective) CRITERIA used to determine the impact significance on Tree Canopy Fog Capture Loss.

1b. If no objective criteria are used please state that clearly.

2. If no objective criteria are used please clearly describe how the threshold of significance chosen is scientifically testable, repeatable, falsifiable, credible and defensible.

3a. Please state the NAME of the MEASUREMENT UNITS (numbers) used to determine the significance for EACH criteria.

3b. Please quote the definition used.

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5a. Please state the METHOD of measurement used to determine the significance for each criteria.

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14. Please analyze and quantify how sensitive those predictions are to reasonably foreseeable varying criteria and assumptions.

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17. Please quantify how this Impact would vary over that time period. Please use a graph for clarity.

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48. Please list all other studies initiated by the applicant related to this impact, including subject matter breadth, author's names and dates and where they can be examined.

-

* 332 - RAINFALL LOSS DUE TO ECOSYSTEM REMOVAL.

The Document appears to have ignored this potentially significant Impact. Please carefully analyze and disclose the potential impacts of Rainfall Loss Due to Ecosystem Removal.

If you claim the document contains proof of no-significant-impact for this impact please explicitly state the page number and paragraph.

A 1994 New Yorker article described a scientific study of how a whole watershed RECEIVED less rainfall after it was clearcut.

This is a different impact than increased runoff and different from tree fog drip.

Fog-Drip is just a tree condensing fog to the ground, rain gathering is the synergetic collection of water from the atmosphere to the forest.

It is the synergetic system capability of a forest ecosystem to gather rain from passing weather systems mainly by cooling a large area using evapotranspiration and shade.

QUANTIFICATION OF BASELINES AND IMPACTS:

This impact appears to be potentially significant.

1a. Please clearly identify by NAME and describe each of the objective (non-subjective) CRITERIA used to determine the impact significance of Rainfall Loss Due to Ecosystem Removal.

1b. If no objective criteria are used please state that clearly.

2. If no objective criteria are used please clearly describe how the threshold of significance chosen is scientifically testable, repeatable, falsifiable, credible and defensible.

3a. Please state the NAME of the MEASUREMENT UNITS (numbers) used to determine the significance for EACH criteria.

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5a. Please state the METHOD of measurement used to determine the significance for each criteria.

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16. Please quantify the length of time this impact would last.

17. Please quantify how this impact would vary over that time period. Please use a graph for clarity.

18. Please state the THRESHOLD number at which the impact changes from significant to less-than-significant and the clear criteria and rationale for that number.

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47. Please provide an ALTERNATIVE which avoids this impact.

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* 333 - ENVIRONMENTALLY SENSITIVE HABITAT AREA LOSS.

The Document appears to have ignored this potentially significant Impact. Please carefully analyze and disclose the project's potential impacts on Environmentally Sensitive Habitat Area Loss.

If you claim the document contains proof of no-significant-impact for this impact please explicitly state the page number and paragraph.

Environmentally Sensitive Habitat Areas (ESHA) defined by the California Coastal Act includes -

all endangered species habitat, all coastal wetlands, all coastal lagoons, all marine life haul-out, breeding and nesting areas, wildlife reserves, all tideland portions of the California Sea Otter Refuge, nearshore reefs, tidepools, sea caves, kelp beds, islets and offshore rocks, wilderness and primitive areas. (source - Big Sur Local Coastal Plan)

QUANTIFICATION OF BASELINES AND IMPACTS:

This impact appears to be potentially significant.

1a. Please clearly identify by NAME and describe each of the objective (non-subjective) CRITERIA used to determine the impact significance on Environmentally Sensitive Habitat Area Loss.

1b. If no objective criteria are used please state that clearly.

2. If no objective criteria are used please clearly describe how the threshold of significance chosen is scientifically testable, repeatable, falsifiable, credible and defensible.

3a. Please state the NAME of the MEASUREMENT UNITS (numbers) used to determine the significance for EACH criteria.

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* 334 - ENVIRONMENTALLY SENSITIVE HABITAT AREA LOSS HABITAT.

The Document appears to have ignored this potentially significant impact. Please carefully analyze and disclose the project's potential impacts on Environmentally Sensitive Habitat Area Loss Habitat.

If you claim the document contains proof of no-significant-impact for this impact please explicitly state the page number and paragraph.

QUANTIFICATION OF BASELINES AND IMPACTS:

This impact appears to be potentially significant.

1a. Please clearly identify by NAME and describe each of the objective (non-subjective) CRITERIA used to determine the impact significance on Environmentally Sensitive Habitat Area Loss Habitat.

1b. If no objective criteria are used please state that clearly.

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* 335 - HABITAT PROTECTION.

The Document appears to have ignored this potentially feasible Alternative. Please carefully analyze and disclose the potential benefits of Habitat Protection.

"Habitat destruction is the leading cause of species extinction." -Nature, 24 Feb 2000 p 843

"Conservation Biology's central tenets are not hard to grasp. For a natural habitat to be viable (and for a conservation strategy to succeed) there is a handful of general rules: bigger is better; a single large habitat is usually better than several small, isolated ones; large native carnivores are better than none; intact habitat is preferable to artificially disturbed habitat; and connected habitats are usually better than fragmented ones." Sierra Magazine Sept/Oct 1995 p 97

"Estivation habitat is essential for the survival of California red-legged frogs within a watershed."

Genuine habitat protection prohibits any adverse modification. It also requires overhwelming proof that any proposed "non-adverse" modification would not have other adverse habitat impacts.

ALTERNATIVE FACTUAL ANALYSIS

There is little or no factual evidence in the document showing why this alternative is infeasible.

A. Please clearly identify by name and describe each of the objective (non-subjective) criteria used to determine this Alternative's benefits.

A1. If no objective criteria are used please state that clearly.

A2. If the criteria are different than those used to evaluate the benefits of the proposed project, please explain as it is not generally acceptable to compare apples and oranges.

B. Please state the name of the measurement units (numbers) used to determine the value for Each criteria.

B1. If no measurement units are used please state that clearly.

C. Please state the method of measurement used to determine the value for each criteria.

C1. If no measurement units are used please state that clearly for each criteria.

C2. If no objective criteria are used please clearly describe how the method of measuring value is scientifically credible and defensible.

D. Please state the existing or current baseline measurement (level) for each criteria.

E. Please state the normal variance or fluctuation, assumed or expected for each of the criteria listed above.

E1. If an average is used, please state which kind of average.

E2. Please state the extreme conditions which will be encountered.

F. Please provide a graph of historical measurement.

G. Please state the measured, assumed or expected margin of error for each measurement, calculation, and conclusion and whether it is measured or assumed.

H. Please state the total maximum change, in Percent, to which the Alternative would raise or lower the baseline number.

H1. Please state whether this total maximum change percent is an average amount, a worst case expected or a best case expected.

H2. Please state the degree, in Absolute Amount, to which this Alternative would raise or lower the baseline number.

H3. Please state whether this total maximum change amount is an average amount, a best case expected or other.

I. Please state the threshold number at which the value changes from a significant impact to a less-than-significant impact and the clear rationale for that number.

I1. Please provide the margin of error used (in percent and absolute amount) to insure the Significance Threshold Level for this Alternative is not somehow exceeded.

I2. If no margin of error is used please state that clearly.

J. ALTERNATIVE VALUE PROOF Please cite and provide relevant studies that clearly show that the project purposes could not be achieved with this alternative or with this alternative in combination with other alternatives.

J1. Please discuss the limitations of those studies.

BENEFIT DURATION K. Please clearly describe how the benefits vary over the time during the studies.

K1. Please graph the benefits for this alternative versus time in the studies. It is important to know the duration of an Alternative's benefits compared with the benefits from the proposed project.

COSTS L. Please cite the costs for the Alternatives studied.

L1. It is important to know the cost to benefit ratio, please explain that ratio.

M. EXPERT QUALIFICATIONS Please name each expert who prepared and reviewed this Alternative analysis.

M1. Please cite each expert's training, competence and experience specific to this Alternative analysis.

-

* 336 - WETLAND LOSS.

The Document appears to have ignored this potentially significant Impact. Please carefully analyze and disclose the project's potential impacts on Wetland Loss.

If you claim the document contains proof of no-significant-impact for this Impact please explicitly state the page number and paragraph.

California has lost about 91 percent of the state's total wetlands. Five (5) million acres reduced to only 450,000 acres. California Dept. of Parks and Recreation 1988. The loss of this much habitat means that wildlife is under extreme pressure. Sierra
Club / CALPirg Report "Our 21 Most Endangered Habitats, 1997)

The US EPA cites land development as the leading cause of recent wetland losses and accounts for 12% of the nation's degraded waters. - The Cumulative Effects of Land Development on Streams, Rivers, Lakes, Tidal Waters & Wetlands, by Richard Klein 1979

Wetlands are more broadly defined by the California Coastal Act than by the Clean Water Act (404 permits). Coastal Commission letter to Cal-Trans Dec 21 1998 (e.g. the Coastal Act includes seasonal wetlands while the federal definition only recognizes
year round wetlands).

Please specify which wetland definition is being used.

QUANTIFICATION OF BASELINES AND IMPACTS:

This impact appears to be potentially significant.

1a. Please clearly identify by NAME and describe each of the objective (non-subjective) CRITERIA used to determine the impact significance on Wetland Loss.

1b. If no objective criteria are used please state that clearly.

2. If no objective criteria are used please clearly describe how the threshold of significance chosen is scientifically testable, repeatable, falsifiable, credible and defensible.

3a. Please state the NAME of the MEASUREMENT UNITS (numbers) used to determine the significance for EACH criteria.

3b. Please quote the definition used.

4. If no measurement units are used please state that clearly.

5a. Please state the METHOD of measurement used to determine the significance for each criteria.

5b. If no method of measurement was used please state that clearly for each criteria and explain thoroughly how the data was obtained.

6. Please quantify the existing or current BASELINE measurement (level) for each criteria.

7. Please state its MARGIN of ERROR or a confidence level and whether the MARGIN of ERROR is measured or assumed.

8. Please state the VARIANCE or fluctuation, assumed or expected for each of the criteria listed above.

9. Please state the variance's MARGINS of ERROR or confidence level.

10. Please state whether this MARGIN of ERROR is measured or assumed.

11. If an average is used, please state which kind of average.

12. Please state the most extreme values which could be encountered.

13. Please describe and quantify which criteria and ASSUMPTIONS the Impact Significance predictions are most SENSITIVE.

14. Please analyze and quantify how sensitive those predictions are to reasonably foreseeable varying criteria and assumptions.

15. Please provide a graph of HISTORICAL measurements.

16. Please quantify the length of time this impact would last.

17. Please quantify how this impact would vary over that time period. Please use a graph for clarity.

18. Please state the THRESHOLD number at which the impact changes from significant to less-than-significant and the clear criteria and rationale for that number.

19. Please provide the MARGIN of ERROR used (in percent and absolute amount) for measuring the Significance THRESHOLD Level.

20s. Please state whether this MARGIN of ERROR is measured or assumed.

20b. If no margin of error is used please state that clearly.

21. Please disclose all threshold numbers at which the impact changes from LEGAL to ILLEGAL for ALL related and potentially relevant local, state and federal laws.

22. Some Impacts increase in a LINEAR RELATIONSHIP with increasing input, other impacts have complex non-linear relationships. Please provide a graph that shows whether the relationship is linear or otherwise - when at and near the significance threshold
values.

23. Please quantify the total PERCENT MAXIMUM CHANGE, to which the IMPACT could raise or lower the baseline number and its MARGIN of ERROR or confidence levels.

24. Please state whether the MARGIN of ERROR is measured or assumed.

25. Please state whether this total PERCENT maximum change is an AVERAGE amount, a worst case expected or a best case expected.

26. Please quantify the ABSOLUTE MAXIMUM AMOUNT, to which the impact would raise or lower the baseline number and its MARGIN of ERROR or confidence levels.

27. Please state whether the MARGIN of ERROR is measured or assumed.

28. Please state whether this total maximum change amount is an AVERAGE amount, a worst case expected or a best case expected.

29. Please list all potential CUMULATIVE impacts related to this one.

30 Please describe all potential CUMULATIVE impacts related to this one.

31. Please quantify all potential CUMULATIVE impacts related to this one.

32. Please list, describe and quantify all potential compound and synergetic impacts.

33. Please list, describe and quantify all Construction impacts related to this one.

34. Please list, describe and quantify all Growth impacts related to this one.

35. Please list, describe and quantify all Indirect impacts related to this one.

36. Please list and quantify every OTHER IMPACT - this impact or mitigation could increase.

37. Please describe the EXISTING USABLE limit of the RESOURCE this impact affects.

38. Please state the METHOD of measurement used to determine the limit of the RESOURCE this impact affects.

39. Please describe the MARGIN of ERROR or confidence level used to measure how much of this resource is left.

40. Please state whether the margin of error is measured or assumed.

41. Please quantify what is the maximum amount (in AMOUNT of existing) of this resource that can be lost and still be restored.

42. Please quantify what is the MAXIMUM amount (in PERCENTAGE of existing) of this resource that can be LOST and still be restored.

43. Please name each EXPERT who prepared and reviewed this impact.

44. Please cite each expert's training, and peer reviewed, validly published articles specific to this impact.

45. Please provide AVOIDANCE MITIGATION for this impact.

46. Please provide the reverse of this impact as Mitigation.

47. Please provide an ALTERNATIVE which avoids this impact.

48. Please list all other studies initiated by the applicant related to this impact, including subject matter breadth, author's names and dates and where they can be examined.

* 337 - WETLAND ECOSYSTEM SERVICE LOSSES.

The Document appears to have ignored this potentially significant impact. Please carefully analyze and disclose the project's potential impacts on Wetland Ecosystem Service Losses.

If you claim the document contains proof of no-significant-impact for this impact please explicitly state the page number and paragraph.

Wetlands provide approx $14,785 in Ecosystem services per hectare per year. -"The value of the worlds ecosystem services and natural capital" by Costanza et all, Nature 15 may 1997 pg 253 "A 1981 study estimated that for each hectare of US Wetlands
destroyed by development, the lost ability to soak up floodwaters increased annual flood damages by $3300 to $11,000." Wade Roush, Science May 16 1997 pg 1029

QUANTIFICATION OF BASELINES AND IMPACTS:

This impact appears to be potentially significant.

1a. Please clearly identify by NAME and describe each of the objective (non-subjective) CRITERIA used to determine the Impact significance on Wetland Ecosystem Service Losses.

1b. If no objective criteria are used please state that clearly.

2. If no objective criteria are used please clearly describe how the threshold of significance chosen is scientifically testable, repeatable, falsifiable, credible and defensible.

3a. Please state the NAME of the MEASUREMENT UNITS (numbers) used to determine the significance for EACH criteria.

3b. Please quote the definition used.

4. If no measurement units are used please state that clearly.

5a. Please state the METHOD of measurement used to determine the significance for each criteria.

5b. If no method of measurement was used please state that clearly for each criteria and explain thoroughly how the data was obtained.

6. Please quantify the existing or current BASELINE measurement (level) for each criteria.

7. Please state its MARGIN of ERROR or a confidence level and whether the MARGIN of ERROR is measured or assumed.

8. Please state the VARIANCE or fluctuation, assumed or expected for each of the criteria listed above.

9. Please state the variance's MARGINS of ERROR or confidence level.

10. Please state whether this MARGIN of ERROR is measured or assumed.

11. If an average is used, please state which kind of average.

12. Please state the most extreme values which could be encountered.

13. Please describe and quantify which criteria and ASSUMPTIONS the Impact Significance predictions are most SENSITIVE.

14. Please analyze and quantify how sensitive those predictions are to reasonably foreseeable varying criteria and assumptions.

15. Please provide a graph of HISTORICAL measurements.

16. Please quantify the length of time this impact would last.

17. Please quantify how this impact would vary over that time period. Please use a graph for clarity.

18. Please state the THRESHOLD number at which the impact changes from significant to less-than-significant and the clear criteria and rationale for that number.

19. Please provide the MARGIN of ERROR used (in percent and absolute amount) for measuring the Significance THRESHOLD Level.

20s. Please state whether this MARGIN of ERROR is measured or assumed.

20b. If no margin of error is used please state that clearly.

21. Please disclose all threshold numbers at which the impact changes from LEGAL to ILLEGAL for ALL related and potentially relevant local, state and federal laws.

22. Some Impacts increase in a LINEAR RELATIONSHIP with increasing input, other impacts have complex non-linear relationships. Please provide a graph that shows whether the relationship is linear or otherwise - when at and near the significance threshold
values.

23. Please quantify the total PERCENT MAXIMUM CHANGE, to which the IMPACT could raise or lower the baseline number and its MARGIN of ERROR or confidence levels.

24. Please state whether the MARGIN of ERROR is measured or assumed.

25. Please state whether this total PERCENT maximum change is an AVERAGE amount, a worst case expected or a best case expected.

26. Please quantify the ABSOLUTE MAXIMUM AMOUNT, to which the impact would raise or lower the baseline number and its MARGIN of ERROR or confidence levels.

27. Please state whether the MARGIN of ERROR is measured or assumed.

28. Please state whether this total maximum change amount is an AVERAGE amount, a worst case expected or a best case expected.

29. Please list all potential CUMULATIVE impacts related to this one.

30 Please describe all potential CUMULATIVE impacts related to this one.

31. Please quantify all potential CUMULATIVE impacts related to this one.

32. Please list, describe and quantify all potential compound and synergetic impacts.

33. Please list, describe and quantify all Construction impacts related to this one.

34. Please list, describe and quantify all Growth Impacts related to this one.

35. Please list, describe and quantify all Indirect impacts related to this one.

36. Please list and quantify every OTHER IMPACT - this impact or mitigation could increase.

37. Please describe the EXISTING USABLE limit of the RESOURCE this impact affects.

38. Please state the METHOD of measurement used to determine the limit of the RESOURCE this impact affects.

39. Please describe the MARGIN of ERROR or confidence level used to measure how much of this resource is left.

40. Please state whether the margin of error is measured or assumed.

41. Please quantify what is the maximum amount (in AMOUNT of existing) of this resource that can be lost and still be restored.

42. Please quantify what is the MAXIMUM amount (in PERCENTAGE of existing) of this resource that can be LOST and still be restored.

43. Please name each EXPERT who prepared and reviewed this impact.

44. Please cite each expert's training, and peer reviewed, validly published articles specific to this impact.

45. Please provide AVOIDANCE MITIGATION for this impact.

46. Please provide the reverse of this impact as Mitigation.

47. Please provide an ALTERNATIVE which avoids this impact.

48. Please list all other studies initiated by the applicant related to this impact, including subject matter breadth, author's names and dates and where they can be examined.

* 338 - WATERS OF THE U.S. LOSS.

The Document appears to have ignored this potentially significant impact. Please carefully analyze and disclose the project's potential impacts on Waters of the U.S. Loss.

If you claim the document contains proof of no-significant-impact for this impact please explicitly state the page number and paragraph.

33 CFR 328 defines Waters of the US as including navigable waterways, their tributaries (including intermittent streams), and wetlands.

QUANTIFICATION OF BASELINES AND IMPACTS:

This impact appears to be potentially significant.

1a. Please clearly identify by NAME and describe each of the objective (non-subjective) CRITERIA used to determine the impact significance on Waters of the U.S. Loss.

1b. If no objective criteria are used please state that clearly.

2. If no objective criteria are used please clearly describe how the threshold of significance chosen is scientifically testable, repeatable, falsifiable, credible and defensible.

3a. Please state the NAME of the MEASUREMENT UNITS (numbers) used to determine the significance for EACH criteria.

3b. Please quote the definition used.

4. If no measurement units are used please state that clearly.

5a. Please state the METHOD of measurement used to determine the significance for each criteria.

5b. If no method of measurement was used please state that clearly for each criteria and explain thoroughly how the data was obtained.

6. Please quantify the existing or current BASELINE measurement (level) for each criteria.

7. Please state its MARGIN of ERROR or a confidence level and whether the MARGIN of ERROR is measured or assumed.

8. Please state the VARIANCE or fluctuation, assumed or expected for each of the criteria listed above.

9. Please state the variance's MARGINS of ERROR or confidence level.

10. Please state whether this MARGIN of ERROR is measured or assumed.

11. If an average is used, please state which kind of average.

12. Please state the most extreme values which could be encountered.

13. Please describe and quantify which criteria and ASSUMPTIONS the Impact Significance predictions are most SENSITIVE.

14. Please analyze and quantify how sensitive those predictions are to reasonably foreseeable varying criteria and assumptions.

15. Please provide a graph of HISTORICAL measurements.

16. Please quantify the length of time this impact would last.

17. Please quantify how this impact would vary over that time period. Please use a graph for clarity.

18. Please state the THRESHOLD number at which the impact changes from significant to less-than-significant and the clear criteria and rationale for that number.

19. Please provide the MARGIN of ERROR used (in percent and absolute amount) for measuring the Significance THRESHOLD Level.

20s. Please state whether this MARGIN of ERROR is measured or assumed.

20b. If no margin of error is used please state that clearly.

21. Please disclose all threshold numbers at which the impact changes from LEGAL to ILLEGAL for ALL related and potentially relevant local, state and federal laws.

22. Some Impacts increase in a LINEAR RELATIONSHIP with increasing input, other impacts have complex non-linear relationships. Please provide a graph that shows whether the relationship is linear or otherwise - when at and near the significance threshold
values.

23. Please quantify the total PERCENT MAXIMUM CHANGE, to which the IMPACT could raise or lower the baseline number and its MARGIN of ERROR or confidence levels.

24. Please state whether the MARGIN of ERROR is measured or assumed.

25. Please state whether this total PERCENT maximum change is an AVERAGE amount, a worst case expected or a best case expected.

26. Please quantify the ABSOLUTE MAXIMUM AMOUNT, to which the impact would raise or lower the baseline number and its MARGIN of ERROR or confidence levels.

27. Please state whether the MARGIN of ERROR is measured or assumed.

28. Please state whether this total maximum change amount is an AVERAGE amount, a worst case expected or a best case expected.

29. Please list all potential CUMULATIVE impacts related to this one.

30 Please describe all potential CUMULATIVE impacts related to this one.

31. Please quantify all potential CUMULATIVE impacts related to this one.

32. Please list, describe and quantify all potential compound and synergetic impacts.

33. Please list, describe and quantify all Construction impacts related to this one.

34. Please list, describe and quantify all Growth impacts related to this one.

35. Please list, describe and quantify all Indirect impacts related to this one.

36. Please list and quantify every OTHER IMPACT - this impact or mitigation could increase.

37. Please describe the EXISTING USABLE limit of the RESOURCE this impact affects.

38. Please state the METHOD of measurement used to determine the limit of the RESOURCE this impact affects.

39. Please describe the MARGIN of ERROR or confidence level used to measure how much of this resource is left.

40. Please state whether the margin of error is measured or assumed.

41. Please quantify what is the maximum amount (in AMOUNT of existing) of this resource that can be lost and still be restored.

42. Please quantify what is the MAXIMUM amount (in PERCENTAGE of existing) of this resource that can be LOST and still be restored.

43. Please name each EXPERT who prepared and reviewed this impact.

44. Please cite each expert's training, and peer reviewed, validly published articles specific to this impact.

45. Please provide AVOIDANCE MITIGATION for this impact.

46. Please provide the reverse of this impact as Miligation.

47. Please provide an ALTERNATIVE which avoids this impact.

48. Please list all other studies initiated by the applicant related to this impact, including subject matter breadth, author's names and dates and where they can be examined.

* 339 - LAKE/RIVERS ECOSYSTEM SERVICES LOSS.

The Document appears to have ignored this potentially significant impact. Please carefully analyze and disclose the project's potential impacts on Lake/Rivers Ecosystem Services Loss.

If you claim the document contains proof of no-significant-impact for this impact please explicitly state the page number and paragraph.

Lakes/rivers provide approx $8,000 in Ecosystem services per hectare per year. -"The value of the worlds ecosystem services and natural capital" by Costanza et all, Nature 15 may 1997 pg 256 Those services include: Species protection (think of what it
costs to keep an endangered animal alive in a zoo, compared to a native habitat), storm protection, flood control, drought recovery and other aspects of habitat responsee to environmental variability mainly controlled by vegetation structure, prevention
of loss of soil by wind, runoff or other removal processes, soil formation, nutrient cycling, waste treatment, pollution control, detoxification, atmospheric gas regulation, climate regulation, pollination, dynamic regulation of populations, reduction of herbivory by top predators, habitat for resident and transient populations, food, lumber, fuel and fodder production; medicine products, genes for disease resistance, ornamental species, eco-tourism, sport fishing, and other outdoor activities,
aesthetic, artistic, educational, spiritual and scientific values.

QUANTIFICATION OF BASELINES AND IMPACTS:

This impact appears to be potentially significant.

1a. Please clearly identify by NAME and describe each of the objective (non-subjective) CRITERIA used to determine the impact significance on Lake/Rivers Ecosystem Services Loss.

1b. If no objective criteria are used please state that clearly.

2. If no objective criteria are used please clearly describe how the threshold of significance chosen is scientifically testable, repeatable, falsifiable, credible and defensible.

3a. Please state the NAME of the MEASUREMENT UNITS (numbers) used to determine the significance for EACH criteria.

3b. Please quote the definition used.

4. If no measurement units are used please state that clearly.

5a. Please state the METHOD of measurement used to determine the significance for each criteria.

5b. If no method of measurement was used please state that clearly for each criteria and explain thoroughly how the data was obtained.

6. Please quantify the existing or current BASELINE measurement (level) for each criteria.

7. Please state its MARGIN of ERROR or a confidence level and whether the MARGIN of ERROR is measured or assumed.

8. Please state the VARIANCE or fluctuation, assumed or expected for each of the criteria listed above.

9. Please state the variance's MARGINS of ERROR or confidence level.

10. Please state whether this MARGIN of ERROR is measured or assumed.

11. If an average is used, please state which kind of average.

12. Please state the most extreme values which could be encountered.

13. Please describe and quantify which criteria and ASSUMPTIONS the Impact Significance predictions are most SENSITIVE.

14. Please analyze and quantify how sensitive those predictions are to reasonably foreseeable varying criteria and assumptions.

15. Please provide a graph of HISTORICAL measurements.

16. Please quantify the length of time this impact would last.

17. Please quantify how this impact would vary over that time period. Please use a graph for clarity.

18. Please state the THRESHOLD number at which the impact changes from significant to less-than-significant and the clear criteria and rationale for that number.

19. Please provide the MARGIN of ERROR used (in percent and absolute amount) for measuring the Significance THRESHOLD Level.

20s. Please state whether this MARGIN of ERROR is measured or assumed.

20b. If no margin of error is used please state that clearly.

21. Please disclose all threshold numbers at which the impact changes from LEGAL to ILLEGAL for ALL related and potentially relevant local, state and federal laws.

22. Some Impacts increase in a LINEAR RELATIONSHIP with increasing input, other impacts have complex non-linear relationships. Please provide a graph that shows whether the relationship is linear or otherwise - when at and near the significance threshold
values.

23. Please quantify the total PERCENT MAXIMUM CHANGE, to which the IMPACT could raise or lower the baseline number and its MARGIN of ERROR or confidence levels.

24. Please state whether the MARGIN of ERROR is measured or assumed.

25. Please state whether this total PERCENT maximum change is an AVERAGE amount, a worst case expected or a best case expected.

26. Please quantify the ABSOLUTE MAXIMUM AMOUNT, to which the impact would raise or lower the baseline number and its MARGIN of ERROR or confidence levels.

27. Please state whether the MARGIN of ERROR is measured or assumed.

28. Please state whether this total maximum change amount is an AVERAGE amount, a worst case expected or a best case expected.

29. Please list all potential CUMULATIVE impacts related to this one.

30 Please describe all potential CUMULATIVE impacts related to this one.

31. Please quantify all potential CUMULATIVE impacts related to this one.

32. Please list, describe and quantify all potential compound and synergetic impacts.

33. Please list, describe and quantify all Construction impacts related to this one.

34. Please list, describe and quantify all Growth Impacts related to this one.

35. Please list, describe and quantify all Indirect impacts related to this one.

36. Please list and quantify every OTHER IMPACT - this impact or mitigation could increase.

37. Please describe the EXISTING USABLE limit of the RESOURCE this impact affects.

38. Please state the METHOD of measurement used to determine the limit of the RESOURCE this impact affects.

39. Please describe the MARGIN of ERROR or confidence level used to measure how much of this resource is left.

40. Please state whether the margin of error is measured or assumed.

41. Please quantify what is the maximum amount (in AMOUNT of existing) of this resource that can be lost and still be restored.

42. Please quantify what is the MAXIMUM amount (in PERCENTAGE of existing) of this resource that can be LOST and still be restored.

43. Please name each EXPERT who prepared and reviewed this impact.

44. Please cite each expert's training, and peer reviewed, validly published articles specific to this impact.

45. Please provide AVOIDANCE MITIGATION for this impact.

46. Please provide the reverse of this impact as Mitigation.

47. Please provide an ALTERNATIVE which avoids this impact.

48. Please list all other studies initiated by the applicant related to this impact, including subject matter breadth, author's names and dates and where they can be examined.

* 340 - PESCADERO CANYON WATERSHED LOSS.

The Document appears to have ignored this potentially significant impact. Please carefully analyze and disclose the project's potential impacts on Pescadero Canyon Watershed Loss.

If you claim the document contains proof of no-significant-impact for this impact please explicitly state the page number and paragraph.

QUANTIFICATION OF BASELINES AND IMPACTS:

This impact appears to be potentially significant.

1a. Please clearly identify by NAME and describe each of the objective (non-subjective) CRITERIA used to determine the impact significance on Pescadero Canyon Watershed Loss.

1b. If no objective criteria are used please state that clearly.

2. If no objective criteria are used please clearly describe how the threshold of significance chosen is scientifically testable, repeatable, falsifiable, credible and defensible.

3a. Please state the NAME of the MEASUREMENT UNITS (numbers) used to determine the significance for EACH criteria.

3b. Please quote the definition used.

4. If no measurement units are used please state that clearly.

5a. Please state the METHOD of measurement used to determine the significance for each criteria.

5b. If no method of measurement was used please state that clearly for each criteria and explain thoroughly how the data was obtained.

6. Please quantify the existing or current BASELINE measurement (level) for each criteria.

7. Please state its MARGIN of ERROR or a confidence level and whether the MARGIN of ERROR is measured or assumed.

8. Please state the VARIANCE or fluctuation, assumed or expected for each of the criteria listed above.

9. Please state the variance's MARGINS of ERROR or confidence level.

10. Please state whether this MARGIN of ERROR is measured or assumed.

11. If an average is used, please state which kind of average.

12. Please state the most extreme values which could be encountered.

13. Please describe and quantify which criteria and ASSUMPTIONS the Impact Significance predictions are most SENSITIVE.

14. Please analyze and quantify how sensitive those predictions are to reasonably foreseeable varying criteria and assumptions.

15. Please provide a graph of HISTORICAL measurements.

16. Please quantify the length of time this impact would last.

17. Please quantify how this impact would vary over that time period. Please use a graph for clarity.

18. Please state the THRESHOLD number at which the impact changes from significant to less-than-significant and the clear criteria and rationale for that number.

19. Please provide the MARGIN of ERROR used (in percent and absolute amount) for measuring the Significance THRESHOLD Level.

20s. Please state whether this MARGIN of ERROR is measured or assumed.

20b. If no margin of error is used please state that clearly.

21. Please disclose all threshold numbers at which the Impact changes from LEGAL to ILLEGAL for ALL related and potentially relevant local, state and federal laws.

22. Some Impacts increase in a LINEAR RELATIONSHIP with increasing input, other impacts have complex non-linear relationships. Please provide a graph that shows whether the relationship is linear or otherwise - when at and near the significance threshold values.

23. Please quantify the total PERCENT MAXIMUM CHANGE, to which the IMPACT could raise or lower the baseline number and its MARGIN of ERROR or confidence levels.

24. Please state whether the MARGIN of ERROR is measured or assumed.

25. Please state whether this total PERCENT maximum change is an AVERAGE amount, a worst case expected or a best case expected.

26. Please quantify the ABSOLUTE MAXIMUM AMOUNT, to which the impact would raise or lower the baseline number and its MARGIN of ERROR or confidence levels.

27. Please state whether the MARGIN of ERROR is measured or assumed.

28. Please state whether this total maximum change amount is an AVERAGE amount, a worst case expected or a best case expected.

29. Please list all potential CUMULATIVE impacts related to this one.

30 Please describe all potential CUMULATIVE impacts related to this one.

31. Please quantify all potential CUMULATIVE impacts related to this one.

32. Please list, describe and quantify all potential compound and synergetic impacts.

33. Please list, describe and quantify all Construction impacts related to this one.

34. Please list, describe and quantify all Growth impacts related to this one.

35. Please list, describe and quantify all Indirect impacts related to this one.

36. Please list and quantify every OTHER IMPACT - this Impact or mitigation could increase.

37. Please describe the EXISTING USABLE limit of the RESOURCE this impact affects.

38. Please state the METHOD of measurement used to determine the limit of the RESOURCE this impact affects.

39. Please describe the MARGIN of ERROR or confidence level used to measure how much of this resource is left.

40. Please state whether the margin of error is measured or assumed.

41. Please quantify what is the maximum amount (in AMOUNT of existing) of this resource that can be lost and still be restored.

42. Please quantify what is the MAXIMUM amount (in PERCENTAGE of existing) of this resource that can be LOST and still be restored.

43. Please name each EXPERT who prepared and reviewed this impact.

44. Please cite each expert's training, and peer reviewed, validly published articles specific to this impact.

45. Please provide AVOIDANCE MITIGATION for this impact.

46. Please provide the reverse of this impact as Mitigation.

47. Please provide an ALTERNATIVE which avoids this impact.

48. Please list all other studies initiated by the applicant related to this impact, including subject matter breadth, author's names and dates and where they can be examined.

* 341 - RIPARIAN ECOSYSTEM LOSS.

The Document appears to have ignored this potentially significant Impact. Please carefully analyze and disclose the project's potential impacts on Riparian Ecosystem Loss.

If you claim the document contains proof of no-significant-impact for this Impact please explicitly state the page number and paragraph.

"California Riparian Forests and Wetlands" are on the list of the 21 most Endangered Ecosystems in the United States. "Endangered Ecosystems: A Status report on America's Vanishing Habitat and Wildlife (Defenders of Wildlife, Washington DC 1995)
"According to the September 1990 Smithsonian, degradation of riparian areas in the West is particularly important to control because while they represent 2 percent of the land area, they support as much as 80 percent of the wildlife." EPA "Managing
Nonpoint Source Pollution" 1992 pg 189

QUANTIFICATION OF BASELINES AND IMPACTS:

This impact appears to be potentially significant.

1a. Please clearly identify by NAME and describe each of the objective (non-subjective) CRITERIA used to determine the impact significance on Riparian Ecosystem Loss.

1b. If no objective criteria are used please state that clearly.

2. If no objective criteria are used please clearly describe how the threshold of significance chosen is scientifically testable, repeatable, falsifiable, credible and defensible.

3a. Please state the NAME of the MEASUREMENT UNITS (numbers) used to determine the significance for EACH criteria.

3b. Please quote the definition used.

4. If no measurement units are used please state that clearly.

5a. Please state the METHOD of measurement used to determine the significance for each criteria.

5b. If no method of measurement was used please state that clearly for each criteria and explain thoroughly how the data was obtained.

6. Please quantify the existing or current BASELINE measurement (level) for each criteria.

7. Please state its MARGIN of ERROR or a confidence level and whether the MARGIN of ERROR is measured or assumed.

8. Please state the VARIANCE or fluctuation, assumed or expected for each of the criteria listed above.

9. Please state the variance's MARGINS of ERROR or confidence level.

10. Please state whether this MARGIN of ERROR is measured or assumed.

11. If an average is used, please state which kind of average.

12. Please state the most extreme values which could be encountered.

13. Please describe and quantify which criteria and ASSUMPTIONS the Impact Significance predictions are most SENSITIVE.

14. Please analyze and quantify how sensitive those predictions are to reasonably foreseeable varying criteria and assumptions.

15. Please provide a graph of HISTORICAL measurements.

16. Please quantify the length of time this impact would last.

17. Please quantify how this impact would vary over that time period. Please use a graph for clarity.

18. Please state the THRESHOLD number at which the impact changes from significant to less-than-significant and the clear criteria and rationale for that number.

19. Please provide the MARGIN of ERROR used (in percent and absolute amount) for measuring the Significance THRESHOLD Level.

20s. Please state whether this MARGIN of ERROR is measured or assumed.

20b. If no margin of error is used please state that clearly.

21. Please disclose all threshold numbers at which the impact changes from LEGAL to ILLEGAL for ALL related and potentially relevant local, state and federal laws.

22. Some Impacts increase in a LINEAR RELATIONSHIP with increasing input, other impacts have complex non-linear relationships. Please provide a graph that shows whether the relationship is linear or otherwise - when at and near the significance threshold
values.

23. Please quantify the total PERCENT MAXIMUM CHANGE, to which the IMPACT could raise or lower the baseline number and its MARGIN of ERROR or confidence levels.

24. Please state whether the MARGIN of ERROR is measured or assumed.

25. Please state whether this total PERCENT maximum change is an AVERAGE amount, a worst case expected or a best case expected.

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31. Please quantify all potential CUMULATIVE impacts related to this one.

32. Please list, describe and quantify all potential compound and synergetic impacts.

33. Please list, describe and quantify all Construction impacts related to this one.

34. Please list, describe and quantify all Growth impacts related to this one.

35. Please list, describe and quantify all Indirect impacts related to this one.

36. Please list and quantify every OTHER IMPACT - this impact or mitigation could increase.

37. Please describe the EXISTING USABLE limit of the RESOURCE this impact affects.

38. Please state the METHOD of measurement used to determine the limit of the RESOURCE this impact affects.

39. Please describe the MARGIN of ERROR or confidence level used to measure how much of this resource is left.

40. Please state whether the margin of error is measured or assumed.

41. Please quantify what is the maximum amount (in AMOUNT of existing) of this resource that can be lost and still be restored.

42. Please quantify what is the MAXIMUM amount (in PERCENTAGE of existing) of this resource that can be LOST and still be restored.

43. Please name each EXPERT who prepared and reviewed this impact.

44. Please cite each expert's training, and peer reviewed, validly published articles specific to this impact.

45. Please provide AVOIDANCE MITIGATION for this impact.

46. Please provide the reverse of this impact as Mitigation.

47. Please provide an ALTERNATIVE which avoids this impact.

48. Please list all other studies initiated by the applicant related to this impact, including subject matter breadth, author's names and dates and where they can be examined.

* 342 - RIPARIAN SCRUB LOSS.

The Document appears to have ignored this potentially significant Impact. Please carefully analyze and disclose the project's potential impacts on Riparian Scrub Loss.

If you claim the document contains proof of no-significant-impact for this impact please explicitly state the page number and paragraph.

QUANTIFICATION OF BASELINES AND IMPACTS:

This impact appears to be potentially significant.

1a. Please clearly identify by NAME and describe each of the objective (non-subjective) CRITERIA used to determine the impact significance on Riparian Scrub Loss.

1b. If no objective criteria are used please state that clearly.

2. If no objective criteria are used please clearly describe how the threshold of significance chosen is scientifically testable, repeatable, falsifiable, credible and defensible.

3a. Please state the NAME of the MEASUREMENT UNITS (numbers) used to determine the significance for EACH criteria.

3b. Please quote the definition used.

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5a. Please state the METHOD of measurement used to determine the significance for each criteria.

5b. If no method of measurement was used please state that clearly for each criteria and explain thoroughly how the data was obtained.

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7. Please state its MARGIN of ERROR or a confidence level and whether the MARGIN of ERROR is measured or assumed.

8. Please state the VARIANCE or fluctuation, assumed or expected for each of the criteria listed above.

9. Please state the variance's MARGINS of ERROR or confidence level.

10. Please state whether this MARGIN of ERROR is measured or assumed.

11. If an average is used, please state which kind of average.

12. Please state the most extreme values which could be encountered.

13. Please describe and quantify which criteria and ASSUMPTIONS the Impact Significance predictions are most SENSITIVE.

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17. Please quantify how this impact would vary over that time period. Please use a graph for clarity.

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34. Please list, describe and quantify all Growth impacts related to this one.

35. Please list, describe and quantify all Indirect impacts related to this one.

36. Please list and quantify every OTHER IMPACT - this impact or mitigation could increase.

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38. Please state the METHOD of measurement used to determine the limit of the RESOURCE this impact affects.

39. Please describe the MARGIN of ERROR or confidence level used to measure how much of this resource is left.

40. Please state whether the margin of error is measured or assumed.

41. Please quantify what is the maximum amount (in AMOUNT of existing) of this resource that can be lost and still be restored.

42. Please quantify what is the MAXIMUM amount (in PERCENTAGE of existing) of this resource that can be LOST and still be restored.

43. Please name each EXPERT who prepared and reviewed this impact.

44. Please cite each expert's training, and peer reviewed, validly published articles specific to this impact.

45. Please provide AVOIDANCE MITIGATION for this impact.

46. Please provide the reverse of this impact as Mitigation.

47. Please provide an ALTERNATIVE which avoids this impact.

48. Please list all other studies initiated by the applicant related to this impact, including subject matter breadth, author's names and dates and where they can be examined.

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* 343 - AQUATIC ECOSYSTEM LOSS.

The Document appears to have ignored this potentially significant Impact. Please carefully analyze and disclose the project's potential impacts on Aquatic Ecosystem Loss.

If you claim the document contains proof of no-significant-impact for this impact please explicitly state the page number and paragraph.

QUANTIFICATION OF BASELINES AND IMPACTS:

This impact appears to be potentially significant.

1a. Please clearly identify by NAME and describe each of the objective (non-subjective) CRITERIA used to determine the impact significance on Aquatic Ecosystem Loss.

1b. If no objective criteria are used please state that clearly.

2. If no objective criteria are used please clearly describe how the threshold of significance chosen is scientifically testable, repeatable, falsifiable, credible and defensible.

3a. Please state the NAME of the MEASUREMENT UNITS (numbers) used to determine the significance for EACH criteria.

3b. Please quote the definition used.

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5a. Please state the METHOD of measurement used to determine the significance for each criteria.

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17. Please quantify how this impact would vary over that time period. Please use a graph for clarity.

18. Please state the THRESHOLD number at which the impact changes from significant to less-than-significant and the clear criteria and rationale for that number.

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37. Please describe the EXISTING USABLE limit of the RESOURCE this impact affects.

38. Please state the METHOD of measurement used to determine the limit of the RESOURCE this impact affects.

39. Please describe the MARGIN of ERROR or confidence level used to measure how much of this resource is left.

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41. Please quantify what is the maximum amount (in AMOUNT of existing) of this resource that can be lost and still be restored.

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43. Please name each EXPERT who prepared and reviewed this impact.

44. Please cite each expert's training, and peer reviewed, validly published articles specific to this impact.

45. Please provide AVOIDANCE MITIGATION for this impact.

46. Please provide the reverse of this impact as Mitigation.

47. Please provide an ALTERNATIVE which avoids this impact.

48. Please list all other studies initiated by the applicant related to this impact, including subject matter breadth, author's names and dates and where they can be examined.

* 344 - FRESHWATER MARSH LOSS.

The Document appears to have ignored this potentially significant Impact. Please carefully analyze and disclose the project's potential impacts on Freshwater Marsh Loss.

If you claim the document contains proof of no-significant-impact for this impact please explicitly state the page number and paragraph.

QUANTIFICATION OF BASELINES AND IMPACTS:

This Impact appears to be potentially significant.

1a. Please clearly identify by NAME and describe each of the objective (non-subjective) CRITERIA used to determine the impact significance on Freshwater Marsh Loss.

1b. If no objective criteria are used please state that clearly.

2. If no objective criteria are used please clearly describe how the threshold of significance chosen is scientifically testable, repeatable, falsifiable, credible and defensible.

3a. Please state the NAME of the MEASUREMENT UNITS (numbers) used to determine the significance for EACH criteria.

3b. Please quote the definition used.

4. If no measurement units are used please state that clearly.

5a. Please state the METHOD of measurement used to determine the significance for each criteria.

5b. If no method of measurement was used please state that clearly for each criteria and explain thoroughly how the data was obtained.

6. Please quantify the existing or current BASELINE measurement (level) for each criteria.

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8. Please state the VARIANCE or fluctuation, assumed or expected for each of the criteria listed above.

9. Please state the variance's MARGINS of ERROR or confidence level.

10. Please state whether this MARGIN of ERROR is measured or assumed.

11. If an average is used, please state which kind of average.

12. Please state the most extreme values which could be encountered.

13. Please describe and quantify which criteria and ASSUMPTIONS the Impact Significance predictions are most SENSITIVE.

14. Please analyze and quantify how sensitive those predictions are to reasonably foreseeable varying criteria and assumptions.

15. Please provide a graph of HISTORICAL measurements.

16. Please quantify the length of time this impact would last.

17. Please quantify how this impact would vary over that time period. Please use a graph for clarity.

18. Please state the THRESHOLD number at which the impact changes from significant to less-than-significant and the clear criteria and rationale for that number.

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30 Please describe all potential CUMULATIVE impacts related to this one.

31. Please quantify all potential CUMULATIVE Impacts related to this one.

32. Please list, describe and quantify all potential compound and synergetic impacts.

33. Please list, describe and quantify all Construction impacts related to this one.

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35. Please list, describe and quantify all Indirect impacts related to this one.

36. Please list and quantify every OTHER IMPACT - this impact or mitigation could increase.

37. Please describe the EXISTING USABLE limit of the RESOURCE this impact affects.

38. Please state the METHOD of measurement used to determine the limit of the RESOURCE this impact affects.

39. Please describe the MARGIN of ERROR or confidence level used to measure how much of this resource is left.

40. Please state whether the margin of error is measured or assumed.

41. Please quantify what is the maximum amount (in AMOUNT of existing) of this resource that can be lost and still be restored.

42. Please quantify what is the MAXIMUM amount (in PERCENTAGE of existing) of this resource that can be LOST and still be restored.

43. Please name each EXPERT who prepared and reviewed this impact.

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45. Please provide AVOIDANCE MITIGATION for this impact.

46. Please provide the reverse of this impact as Mitigation.

47. Please provide an ALTERNATIVE which avoids this impact.

48. Please list all other studies initiated by the applicant related to this impact, including subject matter breadth, author's names and dates and where they can be examined.

* 345 - VERNAL POOL LOSS.

The Document appears to have ignored this potentially significant Impact. Please carefully analyze and disclose the project's potential impacts on Vernal Pool Loss.

If you claim the document contains proof of no-significant-impact for this impact please explicitly state the page number and paragraph.

QUANTIFICATION OF BASELINES AND IMPACTS:

This impact appears to be potentially significant.

1a. Please clearly identify by NAME and describe each of the objective (non-subjective) CRITERIA used to determine the impact significance on Vernal Pool Loss.

1b. If no objective criteria are used please state that clearly.

2. If no objective criteria are used please clearly describe how the threshold of significance chosen is scientifically testable, repeatable, falsifiable, credible and defensible.

3a. Please state the NAME of the MEASUREMENT UNITS (numbers) used to determine the significance for EACH criteria.

3b. Please quote the definition used.

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5a. Please state the METHOD of measurement used to determine the significance for each criteria.

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8. Please state the VARIANCE or fluctuation, assumed or expected for each of the criteria listed above.

9. Please state the variance's MARGINS of ERROR or confidence level.

10. Please state whether this MARGIN of ERROR is measured or assumed.

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12. Please state the most extreme values which could be encountered.

13. Please describe and quantify which criteria and ASSUMPTIONS the Impact Significance predictions are most SENSITIVE.

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15. Please provide a graph of HISTORICAL measurements.

16. Please quantify the length of time this impact would last.

17. Please quantify how this impact would vary over that time period. Please use a graph for clarity.

18. Please state the THRESHOLD number at which the impact changes from significant to less-than-significant and the clear criteria and rationale for that number.

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20b. If no margin of error is used please state that clearly.

21. Please disclose all threshold numbers at which the impact changes from LEGAL to ILLEGAL for ALL related and potentially relevant local, state and federal laws.

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48. Please list all other studies initiated by the applicant related to this impact, including subject matter breadth, author's names and dates and where they can be examined.

* 346 - COASTAL AND MARINE ECOSYSTEMS LOSS.

The Document appears to have ignored this potentially significant Impact. Please carefully analyze and disclose the project's potential impacts on Coastal and Marine Ecosystems Loss.

If you claim the document contains proof of no-significant-impact for this impact please explicitly state the page number and paragraph.

QUANTIFICATION OF BASELINES AND IMPACTS:

This impact appears to be potentially significant.

1a. Please clearly identify by NAME and describe each of the objective (non-subjective) CRITERIA used to determine the Impact significance on Coastal and Marine Ecosystems Loss.

1b. If no objective criteria are used please state that clearly.

2. If no objective criteria are used please clearly describe how the threshold of significance chosen is scientifically testable, repeatable, falsifiable, credible and defensible.

3a. Please state the NAME of the MEASUREMENT UNITS (numbers) used to determine the significance for EACH criteria.

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5a. Please state the METHOD of measurement used to determine the significance for each criteria.

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17. Please quantify how this impact would vary over that time period. Please use a graph for clarity.

18. Please state the THRESHOLD number at which the impact changes from significant to less-than-significant and the clear criteria and rationale for that number.

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20s. Please state whether this MARGIN of ERROR is measured or assumed.

20b. If no margin of error is used please state that clearly.

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48. Please list all other studies initiated by the applicant related to this impact, including subject matter breadth, author's names and dates and where they can be examined.

* 347 - CLOSED-CONE PINE-CYPRESS HABITAT LOSS.

The Document appears to have ignored this potentially significant Impact. Please carefully analyze and disclose the project's potential impacts on Closed-Cone Pine-Cypress Habitat Loss.

If you claim the document contains proof of no-significant-impact for this impact please explicitly state the page number and paragraph.

This habitat occurs in Monterey and Santa Cruz Counties.

QUANTIFICATION OF BASELINES AND IMPACTS:

This impact appears to be potentially significant.

1a. Please clearly identify by NAME and describe each of the objective (non-subjective) CRITERIA used to determine the impact significance on Closed-Cone Pine-Cypress Habitat Loss.

1b. If no objective criteria are used please state that clearly.

2. If no objective criteria are used please clearly describe how the threshold of significance chosen is scientifically testable, repeatable, falsifiable, credible and defensible.

3a. Please state the NAME of the MEASUREMENT UNITS (numbers) used to determine the significance for EACH criteria.

3b. Please quote the definition used.

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5a. Please state the METHOD of measurement used to determine the significance for each criteria.

5b. If no method of measurement was used please state that clearly for each criteria and explain thoroughly how the data was obtained.

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8. Please state the VARIANCE or fluctuation, assumed or expected for each of the criteria listed above.

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11. If an average is used, please state which kind of average.

12. Please state the most extreme values which could be encountered.

13. Please describe and quantify which criteria and ASSUMPTIONS the Impact Significance predictions are most SENSITIVE.

14. Please analyze and quantify how sensitive those predictions are to reasonably foreseeable varying criteria and assumptions.

15. Please provide a graph of HISTORICAL measurements.

16. Please quantify the length of time this impact would last.

17. Please quantify how this impact would vary over that time period. Please use a graph for clarity.

18. Please state the THRESHOLD number at which the impact changes from significant to less-than-significant and the clear criteria and rationale for that number.

19. Please provide the MARGIN of ERROR used (in percent and absolute amount) for measuring the Significance THRESHOLD Level.

20s. Please state whether this MARGIN of ERROR is measured or assumed.

20b. If no margin of error is used please state that clearly.

21. Please disclose all threshold numbers at which the impact changes from LEGAL to ILLEGAL for ALL related and potentially relevant local, state and federal laws.

22. Some Impacts increase in a LINEAR RELATIONSHIP with increasing input, other impacts have complex non-linear relationships. Please provide a graph that shows whether the relationship is linear or otherwise - when at and near the significance threshold
values.

23. Please quantify the total PERCENT MAXIMUM CHANGE, to which the IMPACT could raise or lower the baseline number and its MARGIN of ERROR or confidence levels.

24. Please state whether the MARGIN of ERROR is measured or assumed.

25. Please state whether this total PERCENT maximum change is an AVERAGE amount, a worst case expected or a best case expected.

26. Please quantify the ABSOLUTE MAXIMUM AMOUNT, to which the impact would raise or lower the baseline number and its MARGIN of ERROR or confidence levels.

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32. Please list, describe and quantify all potential compound and synergetic impacts.

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35. Please list, describe and quantify all Indirect impacts related to this one.

36. Please list and quantify every OTHER IMPACT - this impact or mitigation could increase.

37. Please describe the EXISTING USABLE limit of the RESOURCE this impact affects.

38. Please state the METHOD of measurement used to determine the limit of the RESOURCE this impact affects.

39. Please describe the MARGIN of ERROR or confidence level used to measure how much of this resource is left.

40. Please state whether the margin of error is measured or assumed.

41. Please quantify what is the maximum amount (in AMOUNT of existing) of this resource that can be lost and still be restored.

42. Please quantify what is the MAXIMUM amount (in PERCENTAGE of existing) of this resource that can be LOST and still be restored.

43. Please name each EXPERT who prepared and reviewed this impact.

44. Please cite each expert's training, and peer reviewed, validly published articles specific to this impact.

45. Please provide AVOIDANCE MITIGATION for this impact.

46. Please provide the reverse of this impact as Mitigation.

47. Please provide an ALTERNATIVE which avoids this impact.

48. Please list all other studies initiated by the applicant related to this impact, including subject matter breadth, author's names and dates and where they can be examined.

* 348 - COASTAL OAK WOODLAND HABITAT LOSS.

The Document appears to have ignored this potentially significant impact. Please carefully analyze and disclose the project's potential impacts on Coastal Oak Woodland Habitat Loss.

If you claim the document contains proof of no-significant-impact for this impact please explicitly state the page number and paragraph.

This habitat occurs extensively in inland Monterey and Santa Cruz Counties. "Pest rotting coastal region's oaks" Herald Headline Nov 10, 1999 "Bark beetles are killing trees that are overtly healthy," said Steve Tjesvold, a farm advisor with UC Cooperative Extension. "The bark beetles are at epidemic proportions" said Tjesvold. The species affected are coast live oak and tanoak.

QUANTIFICATION OF BASELINES AND IMPACTS:

This impact appears to be potentially significant.

1a, Please clearly identify by NAME and describe each of the objective (non-subjective) CRITERIA used to determine the impact significance on Coastal Oak Woodland Habitat Loss.

1b. If no objective criteria are used please state that clearly.

2. If no objective criteria are used please clearly describe how the threshold of significance chosen is scientifically testable, repeatable, falsifiable, credible and defensible.

3a. Please state the NAME of the MEASUREMENT UNITS (numbers) used to determine the significance for EACH criteria.

3b. Please quote the definition used.

4. If no measurement units are used please state that clearly.

5a. Please state the METHOD of measurement used to determine the significance for each criteria.

5b. If no method of measurement was used please state that clearly for each criteria and explain thoroughly how the data was obtained.

6. Please quantify the existing or current BASELINE measurement (level) for each criteria.

7. Please state its MARGIN of ERROR or a confidence level and whether the MARGIN of ERROR is measured or assumed.

8. Please state the VARIANCE or fluctuation, assumed or expected for each of the criteria listed above.

9. Please state the variance's MARGINS of ERROR or confidence level.

10. Please state whether this MARGIN of ERROR is measured or assumed.

11. If an average is used, please state which kind of average.

12. Please state the most extreme values which could be encountered.

13. Please describe and quantify which criteria and ASSUMPTIONS the Impact Significance predictions are most SENSITIVE.

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15. Please provide a graph of HISTORICAL measurements.

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17. Please quantify how this impact would vary over that time period. Please use a graph for clarity.

18. Please state the THRESHOLD number at which the impact changes from significant to less-than-significant and the clear criteria and rationale for that number.

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20b. If no margin of error is used please state that clearly.

21. Please disclose all threshold numbers at which the impact changes from LEGAL to ILLEGAL for ALL related and potentially relevant local, state and federal laws.

22. Some Impacts increase in a LINEAR RELATIONSHIP with increasing input, other impacts have complex non-linear relationships. Please provide a graph that shows whether the relationship is linear or otherwise - when at and near the significance threshold values.

23. Please quantify the total PERCENT MAXIMUM CHANGE, to which the IMPACT could raise or lower the baseline number and its MARGIN of ERROR or confidence levels.

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34. Please list, describe and quantify all Growth impacts related to this one.

35. Please list, describe and quantify all Indirect impacts related to this one.

36. Please list and quantify every OTHER IMPACT - this impact or mitigation could increase.

37. Please describe the EXISTING USABLE limit of the RESOURCE this impact affects.

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42. Please quantify what is the MAXIMUM amount (in PERCENTAGE of existing) of this resource that can be LOST and still be restored.

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44. Please cite each expert's training, and peer reviewed, validly published articles specific to this impact.

45. Please provide AVOIDANCE MITIGATION for this impact.

46. Please provide the reverse of this impact as Mitigation.

47. Please provide an ALTERNATIVE which avoids this impact.

48. Please list all other studies initiated by the applicant related to this impact, including subject matter breadth, author's names and dates and where they can be examined.

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* 349 - COASTAL SCRUB LOSS.

The Document appears to have ignored this potentially significant impact. Please carefully analyze and disclose the project's potential impacts on Coastal Scrub Loss.

If you claim the document contains proof of no-significant-impact for this impact please explicitly state the page number and paragraph.

This habitat occurs extensively in coastal Monterey and Santa Cruz Counties.

QUANTIFICATION OF BASELINES AND IMPACTS:

This impact appears to be potentially significant.

1a. Please clearly identify by NAME and describe each of the objective (non-subjective) CRITERIA used to determine the impact significance on Coastal Scrub Loss.

1b. If no objective criteria are used please state that clearly.

2. If no objective criteria are used please clearly describe how the threshold of significance chosen is scientifically testable, repeatable, falsifiable, credible and defensible.

3a. Please state the NAME of the MEASUREMENT UNITS (numbers) used to determine the significance for EACH criteria.

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4. If no measurement units are used please state that clearly.

5a. Please state the METHOD of measurement used to determine the significance for each criteria.

5b. If no method of measurement was used please state that clearly for each criteria and explain thoroughly how the data was obtained.

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8. Please state the VARIANCE or fluctuation, assumed or expected for each of the criteria listed above.

9. Please state the variance's MARGINS of ERROR or confidence level.

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11. If an average is used, please state which kind of average.

12. Please state the most extreme values which could be encountered.

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17. Please quantify how this impact would vary over that time period. Please use a graph for clarity.

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39. Please describe the MARGIN of ERROR or confidence level used to measure how much of this resource is left.

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41. Please quantify what is the maximum amount (in AMOUNT of existing) of this resource that can be lost and still be restored.

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45. Please provide AVOIDANCE MITIGATION for this impact.

46. Please provide the reverse of this impact as Mitigation.

47. Please provide an ALTERNATIVE which avoids this impact.

48. Please list all other studies initiated by the applicant related to this impact, including subject matter breadth, author's names and dates and where they can be examined.

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* 350 - LOW TERRACE RIPARIAN FOREST LOSS.

The Document appears to have ignored this potentially significant impact. Please carefully analyze and disclose the project's potential impacts on Low Terrace Riparian Forest Loss.

If you claim the document contains proof of no-significant-impact for this impact please explicitly state the page number and paragraph.

QUANTIFICATION OF BASELINES AND IMPACTS:

This impact appears to be potentially significant.

1a. Please clearly identify by NAME and describe each of the objective (non-subjective) CRITERIA used to determine the impact significance on Low Terrace Riparian Forest Loss.

1b. If no objective criteria are used please state that clearly.

2. If no objective criteria are used please clearly describe how the threshold of significance chosen is scientifically testable, repeatable, falsifiable, credible and defensible.

3a. Please state the NAME of the MEASUREMENT UNITS (numbers) used to determine the significance for EACH criteria.

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5a. Please state the METHOD of measurement used to determine the significance for each criteria.

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8. Please state the VARIANCE or fluctuation, assumed or expected for each of the criteria listed above.

9. Please state the variance's MARGINS of ERROR or confidence level.

10. Please state whether this MARGIN of ERROR is measured or assumed.

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12. Please state the most extreme values which could be encountered.

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17. Please quantify how this impact would vary over that time period. Please use a graph for clarity.

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21. Please disclose all threshold numbers at which the impact changes from LEGAL to ILLEGAL for ALL related and potentially relevant local, state and federal laws.

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37. Please describe the EXISTING USABLE limit of the RESOURCE this impact affects.

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39. Please describe the MARGIN of ERROR or confidence level used to measure how much of this resource is left.

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46. Please provide the reverse of this impact as Mitigation.

47. Please provide an ALTERNATIVE which avoids this impact.

48. Please list all other studies initiated by the applicant related to this impact, including subject matter breadth, author's names and dates and where they can be examined.

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* 351 - HIGH TERRACE RIPARIAN FOREST LOSS.

The Document appears to have ignored this potentially significant Impact. Please carefully analyze and disclose the project's potential impacts on High Terrace Riparian Forest Loss.

If you claim the document contains proof of no-significant-impact for this Impact please explicitly state the page number and paragraph.

QUANTIFICATION OF BASELINES AND IMPACTS:

This impact appears to be potentially significant.

1a. Please clearly identify by NAME and describe each of the objective (non-subjective) CRITERIA used to determine the impact significance on High Terrace Riparian Forest Loss.

1b. If no objective criteria are used please state that clearly.

2. If no objective criteria are used please clearly describe how the threshold of significance chosen is scientifically testable, repeatable, falsifiable, credible and defensible.

3a. Please state the NAME of the MEASUREMENT UNITS (numbers) used to determine the significance for EACH criteria.

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8. Please state the VARIANCE or fluctuation, assumed or expected for each of the criteria listed above.

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12. Please state the most extreme values which could be encountered.

13. Please describe and quantify which criteria and ASSUMPTIONS the Impact Significance predictions are most SENSITIVE.

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17. Please quantify how this impact would vary over that time period. Please use a graph for clarity.

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23. Please quantify the total PERCENT MAXIMUM CHANGE, to which the IMPACT could raise or lower the baseline number and its MARGIN of ERROR or confidence levels.

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* 352 - WILDLIFE HABITAT LOSS.

The Document appears to have ignored this potentially significant impact. Please carefully analyze and disclose the project's potential impacts on Wildlife Habitat Loss.

If you claim the document contains proof of no-significant-impact for this impact please explicitly state the page number and paragraph.

"Conservation Biology's central tenets are not hard to grasp. For a natural habitat to be viable (and for a conservation strategy to succeed) there is a handful of general rules: bigger is better; a single large habitat is usually better than several small, isolated ones; large native carnivores are better than none; intact habitat is preferable to artificially disturbed habitat; and connected habitats are usually better than fragmented ones." Sierra Magazine Sept/Oct 1995 p 97

QUANTIFICATION OF BASELINES AND IMPACTS:

This impact appears to be potentially significant.

1a. Please clearly identify by NAME and describe each of the objective (non-subjective) CRITERIA used to determine the impact significance on Wildlife Habitat Loss.

1b. If no objective criteria are used please state that clearly.

2. If no objective criteria are used please clearly describe how the threshold of significance chosen is scientifically testable, repeatable, falsifiable, credible and defensible.

3a. Please state the NAME of the MEASUREMENT UNITS (numbers) used to determine the significance for EACH criteria.

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48. Please list all other studies initiated by the applicant related to this impact, including subject matter breadth, author's names and dates and where they can be examined.

* 353 - WILDLIFE HABITAT DEGRADATION (AS OPPOSED TO LOSS).

The Document appears to have ignored this potentially significant impact. Please carefully analyze and disclose the project's potential impacts on Wildlife Habitat Degradation (as opposed to loss).

If you claim the document contains proof of no-significant-impact for this impact please explicitly state the page number and paragraph.

QUANTIFICATION OF BASELINES AND IMPACTS:

This impact appears to be potentially significant.

1a. Please clearly identify by NAME and describe each of the objective (non-subjective) CRITERIA used to determine the impact significance on Wildlife Habitat Degradation (as opposed to loss).

1b. If no objective criteria are used please state that clearly.

2. If no objective criteria are used please clearly describe how the threshold of significance chosen is scientifically testable, repeatable, falsifiable, credible and defensible.

3a. Please state the NAME of the MEASUREMENT UNITS (numbers) used to determine the significance for EACH criteria.

3b. Please quote the definition used.

4. If no measurement units are used please state that clearly.

5a. Please state the METHOD of measurement used to determine the significance for each criteria.

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46. Please provide the reverse of this impact as Miligation.

47. Please provide an ALTERNATIVE which avoids this impact.

48. Please list all other studies initiated by the applicant related to this impact, including subject matter breadth, author's names and dates and where they can be examined.

* 354 - SPECIES IMBALANCE.

The Document appears to have ignored this potentially significant impact. Please carefully analyze and disclose the project's potential impacts on Species Imbalance.

If you claim the document contains proof of no-significant-impact for this impact please explicitly state the page number and paragraph.

Removal of predators (e.g. bears) causes their prey (e.g. deer) to increase populations and those deer can cause an increase in vegetation loss.

"A population attacked frontally by shooting or trapping does not have to contend with deteriorating habitat but, in fact, is favored by improved habitat." Caughley 1978, Analysis of

vertebrate populations, p 200 John Wiley & Sons cited by California
Department of Fish and Game "Furbearing and Nongame Mammal Trapping" ED, April 6, 2001

An increase in urban density can cause an increase in raccoon populations and their impacts on resident humans. Killing raccoons typically causes increases in raccoon populations.

QUANTIFICATION OF BASELINES AND IMPACTS:

This impact appears to be potentially significant.

1a. Please clearly identify by NAME and describe each of the objective (non-subjective) CRITERIA used to determine the impact significance on Species Imbalance.

1b. If no objective criteria are used please state that clearly.

2. If no objective criteria are used please clearly describe how the threshold of significance chosen is scientifically testable, repeatable, falsifiable, credible and defensible.

3a. Please state the NAME of the MEASUREMENT UNITS (numbers) used to determine the significance for EACH criteria.

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* 355 - GROUNDWATER FAUNA.

The Document appears to have ignored this potentially significant impact. Please carefully analyze and disclose the project's potential impacts on Groundwater Fauna.

If you claim the document contains proof of no-significant-impact for this impact please explicitly state the page number and paragraph.

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1a. Please clearly identify by NAME and describe each of the objective (non-subjective) CRITERIA used to determine the impact significance on Groundwater Fauna.

1b. If no objective criteria are used please state that clearly.

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* 356 - GROUNDWATER LEVEL PATTERN IMPACTS ON VEGETATION.

The Document appears to have ignored this potentially significant Impact. Please carefully analyze and disclose the project's potential impacts on Groundwater Level Pattern Impacts on Vegetation.

If you claim the document contains proof of no-significant-impact for this impact please explicitly state the page number and paragraph.

The vertical distribution of roots of willows and cottonwoods is related to the groundwater regime to which they are accustomed. Trees that had experienced stable groundwater levels were more susceptible to stress from groundwater decline than trees that
had experienced fluctuating groundwater levels.

QUANTIFICATION OF BASELINES AND IMPACTS:

This impact appears to be potentially significant.

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* 357 - COLONIZATION BY INVASIVE NON-NATIVE PLANTS.

The Document appears to have ignored this potentially significant impact. Please carefully analyze and disclose the project's potential impacts on Colonization by Invasive Non-Native Plants.

If you claim the document contains proof of no-significant-impact for this impact please explicitly state the page number and paragraph.

Human activity distributes a wide array of animals, plants, insects and microorganisms to new locations.

"Whether introduced intentionally or accidentlly, invasive species can: 1) prey on, parasitize, outcompete, or hybridize with native species to the point of extirpation or extinction, and 2) disrupt the function of native communities and ecosystems."
"The Science of Invasive Species" Nov 2001 report, Union of Concerned Scientists.

"Biological pollution" of exotic or non-native species can cause the loss of habitat for ESA listed plants and animals. "More than 1000 exotic plants have been introduced in [California] since 1769. Eucalyptus is one of about 50 plants that have escaped
cultivation and now run roughshod over wild areas."
Associated Press Sept. 26 1999

Shipping Spreading Invasive Species Shipping brought alien plants into California perhaps in the wool of sheep, in hay carried for livestock, or in the droppings of domestic animals. "Destruction of California" Dasmann, 1966, Collier Books

Ballast Discharge Spreading Invasive Species Ship ballast discharge has infected the Great lakes with the zebra mussel, round goby and a water flea (Cercopaagis pengoi).

In just a handful of years the flea has exceeded 600 fleas per cubic meter of surface water in Lake Ontario - over the entire lake. It has already infested six of NY's finger lakes and it is only a matter of time before the fela enters the Missippi river. It has few known N American predators.

At a minimum it is expected to starve out the larve of non-commercial fish, but by doing so it could indirectly trigger the collapse of to ppredators. "In the worst case 'we could wake up one morning with no fish in the Great Lakes, except perhaps
carp.'" Science news Nov 13 1999

"In the Coastal fog belt of California, from Monterey County northward, Pampas type grasses and Scotch and French Broom are invading disturbed soils, grasslands, open woodlands and roadsides. They crowd out native plants and wildflowers, changing the
appearance of the natural landscape, decreasing the food and habitats of wildlife and creating what many consider an eyesore." (Invasive Exotic Plants in Monterey County, brochure by Monterey County Planning Dept #293-0274 4/98)

Bulldozing, including new road cuts and clearing old roads, leaves an excellent opportunity for introduction and enhancement of Pampas type grasses and Scotch and French Broom.

"In the Coastal fog belt of California, from Monterey County northward, Pampas type grasses and Scotch and French Broom are invading DISTURBED soils, grasslands, open woodlands and roadsides. They crowd out native plants and wildflowers, changing the
appearance of the natural landscape, decreasing the food and habitats of wildlife and creating what many consider an eyesore." (Invasive Exotic Plants in Monterey County, brochure by Monterey County Planning Dept. #293-0274 4/98)

California harmful exotics and non-natives include: French Broom (Cytisus monspessulanus) Pampas Grasses (Cortaderia jubata and Cortaderia sellowana) Scotch Broom

"Broom forms dense thickets in many habitats, shading out native flora and tree seedlings and can limit access to recreational trails for hiking, fishing and horseback riding." (Invasive Exotic Plants in Monterey County, brochure by Monterey County
Planning Dept. #293-0274 4/98)

Bullfrog - eats tadpoles of the federally listed California Red-Legged Frog (Rana aurora draytonii).

Bluegum Eucalyptus - which sheds bark and leaves, chokes out native plants reducing food for owls, deer and other animals. They spread so quickly they become fire hazards contributing to the Oakland Hills fire in 1991 which killed 16 people and destroyed
3000 homes.

Green Crab (Carcinus maenas) - eats native clams, oysters and other crabs. It threatens some birds, fish and other crabs by eating their food supply.

Hydrilla (Hydrilla verticillata) - clogs waterways, blocks light for other plant species and reduces fish spawning and feeding areas.

Flathead Catfish - eats chiefly other fish including endangered species. Dandilions

Nutria - "devastating wetlands and habitat for Bald Eagles" AP Sept. 26 1999.

"Rats and feral cats have eliminated ground nesting birds in many areas, including Jamaica, Australia, New Zealand, and the Galapagos Islands." Environmental Science; Morgan, Moran & Weirsma; W.C. Brown Pub. 1993

Exotic Species. More than 130 exotic (nonnative) species have been introduced to the Great Lakes since 1800, nearly a third carried in by ships. Some exotics have profoundly damaged native species. A troublesome recent invader, the zebra mussel, probably
entered the lakes via ballast water discharge from an oceangoing vessel. The full impacts of the mussel are not yet known, but they are potentially great. A prolific breeder, the mollusk devours microscopic plants at the foundation of the food web and
may create a food shortage for fish that graze on these plants, ultimately threatening predator fish such as walleye, salmon, and lake trout. Colonies also foul and clog water intake pipes to water treatment and power plants.

QUANTIFICATION OF BASELINES AND IMPACTS:

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* 358 - MEADOWS.

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If you claim the document contains proof of no-significant-Impact for this impact please explicitly state the page number and paragraph.

QUANTIFICATION OF BASELINES AND IMPACTS:

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36. Please list and quantify every OTHER IMPACT - this impact or miligation could increase.

37. Please describe the EXISTING USABLE limit of the RESOURCE this impact affects.

38. Please state the METHOD of measurement used to determine the limit of the RESOURCE this impact affects.

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41. Please quantify what is the maximum amount (in AMOUNT of existing) of this resource that can be lost and still be restored.

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44. Please cite each expert's training, and peer reviewed, validly published articles specific to this impact.

45. Please provide AVOIDANCE MITIGATION for this impact.

46. Please provide the reverse of this impact as Mitigation.

47. Please provide an ALTERNATIVE which avoids this impact.

48. Please list all other studies initiated by the applicant related to this impact, including subject matter breadth, author's names and dates and where they can be examined.

* 359 - SPECIES EXTINCTION.

The Document appears to have ignored this potentially significant impact. Please carefully analyze and disclose the potential impacts of Species Extinction.

If you claim the document contains proof of no-significant-impact for this impact please explicitly state the page number and paragraph.

"Man is incapable of making permanent changes in the cosmos. Except one. In only one way can man truly make his mark upon time and life and evolution: by exterminating any species of plant or animal. If he does that, if he eradicates any species or
allows to fail any line of evolution through time, he will have permanently altered the life potential of the cosmos for as long as matter and energy exist." Roger Caras, Speech, Yale School of Forestry, 10 April, 1978 (DEQ)

How much money and effort would we devote to preserve an animal species if we had found one on the moon? Is any species on earth less precious?

QUANTIFICATION OF BASELINES AND IMPACTS:

This impact appears to be potentially significant.

1a. Please clearly identify by NAME and describe each of the objective (non-subjective) CRITERIA used to determine the impact significance of Species Extinction.

1b. If no objective criteria are used please state that clearly.

2. If no objective criteria are used please clearly describe how the threshold of significance chosen is scientifically testable, repeatable, falsifiable, credible and defensible.

3a. Please state the NAME of the MEASUREMENT UNITS (numbers) used to determine the significance for EACH criteria.

3b. Please quote the definition used.

4. If no measurement units are used please state that clearly.

5a. Please state the METHOD of measurement used to determine the significance for each criteria.

5b. If no method of measurement was used please state that clearly for each criteria and explain thoroughly how the data was obtained.

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8. Please state the VARIANCE or fluctuation, assumed or expected for each of the criteria listed above.

9. Please state the variance's MARGINS of ERROR or confidence level.

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14. Please analyze and quantify how sensitive those predictions are to reasonably foreseeable varying criteria and assumptions.

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* 360 - BIODIVERSITY LOSS.

The Document appears to have ignored this potentially significant Impact. Please carefully analyze and disclose the project's potential impacts on Biodiversity Loss.

If you claim the document contains proof of no-significant-impact for this impact please explicitly state the page number and paragraph.

Biodiversity can be measured with genetic diversity, species diversity and ecosystem diversity. Biodiversity varies naturally with local surface (land or water), latitude / temperature (bird species vary from 10 to over 600 from arctic to equator), climate rainy vs desert).

Agriculture is the extreme opposite of biodiversity in that it typically involves genetically identical plants (or animals), removal of all non-harvested species and extremely controlled identical ecosystems - one genetic individual, one species and one
uniform ecosystem.

Loss of Biodiversity is the only process that is wholly irreversible. Its consequences are also the least predictable. "Threats to Biodiversity" by E.O. Wilson, Scientific American Sept 1989 pg 108

"The more diverse the plant community, the less its productivity declines during dry years and the faster it rebounded." "Biodiversity really is an insurance policy against catastrophy. Areas with more species are more stable." Science News, Feb 5 1994
pg 84,85

QUANTIFICATION OF BASELINES AND IMPACTS:

This impact appears to be potentially significant.

1a. Please clearly identify by NAME and describe each of the objective (non-subjective) CRITERIA used to determine the impact significance on Biodiversity Loss.

1b. If no objective criteria are used please state that clearly.

2. If no objective criteria are used please clearly describe how the threshold of significance chosen is scientifically testable, repeatable, falsifiable, credible and defensible.

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* 361 - GENETIC DIVERSITY LOSS.

The Document appears to have ignored this potentially significant impact. Please carefully analyze and disclose the project's potential impacts on Genetic Diversity Loss.

If you claim the document contains proof of no-significant-impact for this impact please explicitly state the page number and paragraph.

A Genetic Diversity Bottleneck is a period of reduced population size.

Genetic diversity is important in a species to provide extinction resistance due to disease. If all individuals in a species are identical clones, they will have identical resistance to a disease. This means when a disease kills one individual - all
other members of the species (100 percent) can be killed just as easily by that disease.

Declining vs Rising Population

There is a large significant, measurable difference in genetic variability when you reach a Minimum Viable Population (MVP) number by a decrease or an increase in the population.

Using an arbitrary number of 1000 individuals as the initial MVP of a population, when arriving at MVP through population LOSS, you could have as many as 1000 genetically distinct individuals.

When arriving at the 1000 individuals through population GAIN, you could have as few as 2 genetically distinct individuals (with minor mutations).

When a population reaches its population from an increase and in the absence of better data, we must assume worst case for genetic diversity.

When arriving at the 1000 individuals through population gain from a population low of 50 animals, you may have a MAXIMUM of 49 genetically distinct animals (with minor mutations) or as few as 2 genetically distinct animals.

Forty-nine genetically distinct individuals is a magnitude less than the 1000 genetically distinct individuals. Two genetically distinct animals is another MAGNITUDE fewer animals.

The real MVP numbers of animals for endangered and threatened thresholds need to increase by at least a magnitude, and possibly by a second magnitude, and it needs to include a time or a generation criteria to allow for genetic diversity to increase.

Only after specific, not sample, measurements show 1000 animals of measureable wide genetic diversity should legal protection for a threatened species occur.

QUANTIFICATION OF BASELINES AND IMPACTS:

This impact appears to be potentially significant.

1a. Please clearly identify by NAME and describe each of the objective (non-subjective) CRITERIA used to determine the impact significance on Genetic Diversity Loss.

1b. If no objective criteria are used please state that clearly.

2. If no objective criteria are used please clearly describe how the threshold of significance chosen is scientifically testable, repeatable, falsifiable, credible and defensible.

3a. Please state the NAME of the MEASUREMENT UNITS (numbers) used to determine the significance for EACH criteria.

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* 362 - ILLEGAL & INTENTIONAL AGENCY DELAY LISTING ENDANGERED & THREATENED SPECIES.

The Document appears to have ignored this potentially significant impact. Please carefully analyze and disclose the potential impacts of Illegal & Intentional Agency Delay Listing Endangered & Threatened Species.

If you claim the document contains proof of no-significant-impact for this impact please explicitly state the page number and paragraph.

US-Fish & Wildlife Service (FWS) and US-National Marine Fisheries Service, SW Region - the two federal agencies charged with protecting endangered species refuse and delay listing species as Endangered & Threatened even when scientific evidence is substantial.

The Center for Biodiversity has had to sue FWS at least 4 times over ten years to list the Northern Goshawk.

QUANTIFICATION OF BASELINES AND IMPACTS:

This impact appears to be potentially significant.

1a. Please clearly identify by NAME and describe each of the objective (non-subjective) CRITERIA used to determine the impact significance of Illegal & Intentional Agency Delay Listing Endangered & Threatened Species.

1b. If no objective criteria are used please state that clearly.

2. If no objective criteria are used please clearly describe how the threshold of significance chosen is scientifically testable, repeatable, falsifiable, credible and defensible.

3a. Please state the NAME of the MEASUREMENT UNITS (numbers) used to determine the significance for EACH criteria.

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* 363 - IMMIGRATION VS LOCAL POPULATION RECOVERY.

The Document appears to have ignored this potentially significant impact. Please carefully analyze and disclose the potential impacts of Immigration vs Local Population Recovery.

If you claim the document contains proof of no-significant-impact for this impact please explicitly state the page number and paragraph.

"In the Great Lakes, bald eagle numbers climbed from 26 pairs to 134 pairs between 1977 and 1993, but this recovery may be more apparent than real. US-Fish & Wildlife Service biologists believe that the growth of the Great Lakes population depends largely on immigration of eagles hatched in cleaner [non-polluted] areas." OSF, pg 154

QUANTIFICATION OF BASELINES AND IMPACTS:

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46. Please provide the reverse of this impact as Mitigation.

47. Please provide an ALTERNATIVE which avoids this impact.

48. Please list all other studies initiated by the applicant related to this impact, including subject matter breadth, author's names and dates and where they can be examined.

* 364 - LOSS OF UNLISTED BUT THREATENED AND ENDANGERED SPECIES.

The Document appears to have ignored this potentially significant Impact. Please carefully analyze and disclose the project's potential impacts on Loss of Unlisted but Threatened and Endangered Species.

If you claim the document contains proof of no-significant-impact for this impact please explicitly state the page number and paragraph.

"Habitat destruction is the leading cause of species extinction." -Nature, 24 Feb 2000 p 843

"Within the past decade, at least 34 species, subspecies, or vertebrate populations have become extinct while awaiting consideration for federal protection." President's Council on Environmental Quality 1990

In 1988 Congress noted that 950 species were prime candidates for listing for which the Service had taken no action. (Curtin's Land Use 1998) This shows that many species are Genuinely Threatened and Endangered with Extinction - yet they have no formal
protection under the Endangered Species Act.

The Lingcod is just one of many rockfish that is in trouble. It is thought to be down to about 3 percent of its former population. -Herald Dec 3 1999

In the last 200 years the United States has lost up to 490 species of native plants and animals with another 9,000 now at risk. (The 1993 Information Please Environmental Almanac, compiled by World Resources Institute (Houghton Mifflin, 1993, p 159)

We want you to identify and analyze the impacts on those species and habitats which are genuinely threatened but have not been officially listed.

QUANTIFICATION OF BASELINES AND IMPACTS:

This impact appears to be potentially significant.

1a. Please clearly identify by NAME and describe each of the objective (non-subjective) CRITERIA used to determine the impact significance on Loss of Unlisted but Threatened and Endangered Species.

1b. If no objective criteria are used please state that clearly.

2. If no objective criteria are used please clearly describe how the threshold of significance chosen is scientifically testable, repeatable, falsifiable, credible and defensible.

3a. Please state the NAME of the MEASUREMENT UNITS (numbers) used to determine the significance for EACH criteria.

3b. Please quote the definition used.

4. If no measurement units are used please state that clearly.

5a. Please state the METHOD of measurement used to determine the significance for each criteria.

5b. If no method of measurement was used please state that clearly for each criteria and explain thoroughly how the data was obtained.

6. Please quantify the existing or current BASELINE measurement (level) for each criteria.

7. Please state its MARGIN of ERROR or a confidence level and whether the MARGIN of ERROR is measured or assumed.

8. Please state the VARIANCE or fluctuation, assumed or expected for each of the criteria listed above.

9. Please state the variance's MARGINS of ERROR or confidence level.

10. Please state whether this MARGIN of ERROR is measured or assumed.

11. If an average is used, please state which kind of average.

12. Please state the most extreme values which could be encountered.

13. Please describe and quantify which criteria and ASSUMPTIONS the Impact Significance predictions are most SENSITIVE.

14. Please analyze and quantify how sensitive those predictions are to reasonably foreseeable varying criteria and assumptions.

15. Please provide a graph of HISTORICAL measurements.

16. Please quantify the length of time this impact would last.

17. Please quantify how this impact would vary over that time period. Please use a graph for clarity.

18. Please state the THRESHOLD number at which the impact changes from significant to less-than-significant and the clear criteria and rationale for that number.

19. Please provide the MARGIN of ERROR used (in percent and absolute amount) for measuring the Significance THRESHOLD Level.

20s. Please state whether this MARGIN of ERROR is measured or assumed.

20b. If no margin of error is used please state that clearly.

21. Please disclose all threshold numbers at which the impact changes from LEGAL to ILLEGAL for ALL related and potentially relevant local, state and federal laws.

22. Some Impacts increase in a LINEAR RELATIONSHIP with increasing input, other impacts have complex non-linear relationships. Please provide a graph that shows whether the relationship is linear or otherwise - when at and near the significance threshold
values.

23. Please quantify the total PERCENT MAXIMUM CHANGE, to which the IMPACT could raise or lower the baseline number and its MARGIN of ERROR or confidence levels.

24. Please state whether the MARGIN of ERROR is measured or assumed.

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37. Please describe the EXISTING USABLE limit of the RESOURCE this impact affects.

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39. Please describe the MARGIN of ERROR or confidence level used to measure how much of this resource is left.

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41. Please quantify what is the maximum amount (in AMOUNT of existing) of this resource that can be lost and still be restored.

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46. Please provide the reverse of this impact as Mitigation.

47. Please provide an ALTERNATIVE which avoids this impact.

48. Please list all other studies initiated by the applicant related to this impact, including subject matter breadth, author's names and dates and where they can be examined.

* 365 - LOSS OF UNLISTED BUT THREATENED AND ENDANGERED SPECIES HABITAT.

The Document appears to have ignored this potentially significant impact. Please carefully analyze and disclose the project's potential impacts on Loss of Unlisted but Threatened and Endangered Species Habitat.

If you claim the document contains proof of no-significant-impact for this impact please explicitly state the page number and paragraph.

QUANTIFICATION OF BASELINES AND IMPACTS:

This impact appears to be potentially significant.

1a. Please clearly identify by NAME and describe each of the objective (non-subjective) CRITERIA used to determine the impact significance on Loss of Unlisted but Threatened and Endangered Species Habitat.

1b. If no objective criteria are used please state that clearly.

2. If no objective criteria are used please clearly describe how the threshold of significance chosen is scientifically testable, repeatable, falsifiable, credible and defensible.

3a. Please state the NAME of the MEASUREMENT UNITS (numbers) used to determine the significance for EACH criteria.

3b. Please quote the definition used.

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5a. Please state the METHOD of measurement used to determine the significance for each criteria.

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39. Please describe the MARGIN of ERROR or confidence level used to measure how much of this resource is left.

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41. Please quantify what is the maximum amount (in AMOUNT of existing) of this resource that can be lost and still be restored.

42. Please quantify what is the MAXIMUM amount (in PERCENTAGE of existing) of this resource that can be LOST and still be restored.

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47. Please provide an ALTERNATIVE which avoids this impact.

48. Please list all other studies initialed by the applicant related to this impact, including subject matter breadth, author's names and dates and where they can be examined.

* 366 - GENUINE BUT UNDESIGNATED CRITICAL HABITAT FOR ESA LISTED SPECIES.

The Document appears to have ignored this potentially significant impact. Please carefully analyze and disclose the project's potential impacts on Genuine but Undesignated Critical Habitat for ESA Listed Species.

If you claim the document contains proof of no-significant-impact for this impact please explicitly state the page number and paragraph.

"Habitat destruction is the leading cause of species extinction." -Nature, 24 Feb 2000 p 843

Illegal & Intentional Agency Delay In Mapping Critical Habitat

From 1996 to 2000 US-Fish & Wildlife Service (FWS) has failed to map "Critical Habitat" for any species until forced to do so by lawsuit.

US-Fish & Wildlife Service (FWS) is required by federal law to designate Critical Habitat with a maximum delay from the date of listing of one year. Their record of failing to do so and violating the Endangered Species Act (ESA) is almost perfect.

Between April 1996 and September 1998, the FWS listed 179 species as "Threatened" or "Endangered" under the ESA, and not once has the agency voluntarily designated critical habitat for any of them even though required to by law. Every single critical
habitat designation that has been made has been forced upon the agency by a federal judge in response to a citizen-inspired lawsuit.

Thus there are large areas of real critical habitat for listed species exists, but is not officially designated. We want you to identify and analyze the impacts on those species' habitats.

QUANTIFICATION OF BASELINES AND IMPACTS:

This impact appears to be potentially significant.

1a. Please clearly identify by NAME and describe each of the objective (non-subjective) CRITERIA used to determine the Impact significance on Genuine but Undesignated Critical Habitat for ESA Listed Species.

1b. If no objective criteria are used please state that clearly.

2. If no objective criteria are used please clearly describe how the threshold of significance chosen is scientifically testable, repeatable, falsifiable, credible and defensible.

3a. Please state the NAME of the MEASUREMENT UNITS (numbers) used to determine the significance for EACH criteria.

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5a. Please state the METHOD of measurement used to determine the significance for each criteria.

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17. Please quantify how this impact would vary over that time period. Please use a graph for clarity.

18. Please state the THRESHOLD number at which the impact changes from significant to less-than-significant and the clear criteria and rationale for that number.

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36. Please list and quantify every OTHER IMPACT - this impact or mitigation could increase.

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48. Please list all other studies initiated by the applicant related to this impact, including subject matter breadth, author's names and dates and where they can be examined.

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* 367 - HABITAT LOSS CAUSED EXTINCTION.

The Document appears to have ignored this potentially significant impact. Please carefully analyze and disclose the project's potential impacts on Habitat Loss Caused Extinction.

If you claim the document contains proof of no-significant-impact for this impact please explicitly state the page number and paragraph.

"Habitat destruction is the leading cause of species extinction." -Nature, 24 Feb 2000 p 843

"..in patches [of protected areas] of between one and 20 square kilometers, a common size for reserves and parks in the tropics and elsewhere, 20 percent or more of the [bird] species disappear within 50 years." E.O. Wilson, Scientific American Sept 1989
pg 112

QUANTIFICATION OF BASELINES AND IMPACTS:

This impact appears to be potentially significant.

1a. Please clearly identify by NAME and describe each of the objective (non-subjective) CRITERIA used to determine the impact significance on Habitat Loss Caused Extinction.

1b. If no objective criteria are used please state that clearly.

2. If no objective criteria are used please clearly describe how the threshold of significance chosen is scientifically testable, repeatable, falsifiable, credible and defensible.

3a. Please state the NAME of the MEASUREMENT UNITS (numbers) used to determine the significance for EACH criteria.

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8. Please state the VARIANCE or fluctuation, assumed or expected for each of the criteria listed above.

9. Please state the variance's MARGINS of ERROR or confidence level.

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16. Please quantify the length of time this impact would last.

17. Please quantify how this impact would vary over that time period. Please use a graph for clarity.

18. Please state the THRESHOLD number at which the impact changes from significant to less-than-significant and the clear criteria and rationale for that number.

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23. Please quantify the total PERCENT MAXIMUM CHANGE, to which the IMPACT could raise or lower the baseline number and its MARGIN of ERROR or confidence levels.

24. Please state whether the MARGIN of ERROR is measured or assumed.

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48. Please list all other studies initiated by the applicant related to this impact, including subject matter breadth, author's names and dates and where they can be examined.

* 368 - SINGLE SPECIES ANALYSIS VS ECOLOGICAL ANALYSIS.

The Document appears to have ignored this potentially significant Impact. Please carefully analyze and disclose the project's potential impacts on Single Species Analysis vs Ecological Analysis.

If you claim the document contains proof of no-significant-impact for this impact please explicitly state the page number and paragraph.

For example: Fish Single species management, while perhaps effective in preventing local extinctions of some [fish] stocks, has pitted the needs of listed stocks against unlisted stocks, resulting in an unworkable tool in fisheries management and
restoration. Nehlson et al. 1991 and Mills et al. 1997

QUANTIFICATION OF BASELINES AND IMPACTS:

This impact appears to be potentially significant.

1a. Please clearly identify by NAME and describe each of the objective (non-subjective) CRITERIA used to determine the impact significance on Single Species Analysis vs Ecological Analysis.

1b. If no objective criteria are used please state that clearly.

2. If no objective criteria are used please clearly describe how the threshold of significance chosen is scientifically testable, repeatable, falsifiable, credible and defensible.

3a. Please state the NAME of the MEASUREMENT UNITS (numbers) used to determine the significance for EACH criteria.

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48. Please list all other studies initiated by the applicant related to this impact, including subject matter breadth, author's names and dates and where they can be examined.

* 369 - CHANGES IN FOOD SUPPLY.

The Document appears to have ignored this potentially significant Impact. Please carefully analyze and disclose the project's potential impacts on Changes in Food Supply.

If you claim the document contains proof of no-significant-impact for this impact please explicitly state the page number and paragraph.

Wildlife Corridor Loss,,RN California Fish & Game Code 2781 "Corridors of natural habitat must be preserved to maintain the genetic integrity of California's wildlife."

"Few animals or plants would be able to cross Los Angeles on the way to the promised land." Robert L. Peters, in The Challenge of Global Warming, 1989

QUANTIFICATION OF BASELINES AND IMPACTS:

This impact appears to be potentially significant.

1a. Please clearly identify by NAME and describe each of the objective (non-subjective) CRITERIA used to determine the impact significance on Changes in Food Supply.

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