Appendix B

Conservation Fund In-Lieu Fee Mitigation

$\label{eq:Appendix B} Appendix \ B - Conservation \ Fund \ In-Lieu \ Fee \ Mitigation$

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Appendix B Conservation Fund In-Lieu Fee Mitigation

1. INTRODUCTION

The purpose of this Appendix report is to describe the development of the Conservation Fund In-Lieu Fee mitigation which meets the requirements of 2004 El Dorado County General Plan Policy 7.4.4.4, which specifies an Option B Mitigation Fee. The intent of the Option B mitigation fee is to provide compensation for impacts resulting from the loss of habitat and fragmentation of oak woodlands due to development. In order to describe the development of the fee, and the foundation for the 2:1 mitigation ratio, it is essential to understand the history of oak woodland mitigation measures developed during the completion of the 2004 General Plan EIR and General Plan.

The El Dorado County Board of Supervisors adopted the previous County General Plan in 1996. The Draft Environmental Impact Report (DEIR) of the 1996 General Plan was subject to a legal challenge over the proposed changes in land use, traffic congestion, water resources, and the oak woodland canopy (El Dorado County Taxpayers for Quality Growth et al. v. El Dorado County Board of Supervisors et al. - Case No. 96 CS 01290). The challenge alleged that the DEIR's canopy cover retention standards did not adequately address impacts to the oak woodland canopy. The basis for woodland conservation in the County under the 1996 General Plan was oak canopy retention and open-space policies. The canopy retention standards applied to discretionary projects involving parcels with an oak woodland canopy cover of at least ten percent (EDAW, 2003, Page 5.12-40). In addition, the practice of planting to mitigate oak trees proved problematic, since trees were inappropriately planted on-site and there have been few opportunities to assess how oak woodland habitats develop over time from areas planted (EDAW, 2003, Page 5.12-31). In 1999, the Sacramento County Superior Court issued a Writ of Mandate that ruled the 1996 General Plan DEIR deficient and placed a moratorium on development in the county until another General Plan could be adopted.

In response to the 1999 Writ of Mandate, the County adopted a new General Plan and certified an EIR for the General Plan in July 2004. A Motion for Review of County's Return to the Writ was subsequently filed with the Superior Court in August 2005. The Court ruled that the County went well beyond the direction of the 1999 Writ by providing an alternative to the retention requirements in the form of compensatory funding (Court Ruling, Page 5).

This alternative funding is found in the 2004 El Dorado County General Plan Policy 7.4.4.4, which specifies an Option B Mitigation Funding in lieu of replacement and retention requirements of Option A. The full text of Option B reads as follows:

"The project applicant shall provide sufficient funding to the County's INRMP conservation fund, described in Policy 7.4.2.8, to fully compensate for the impact to oak woodland habitat. To compensate for fragmentation as well as habitat loss, the preservation ratio shall be 2:1 and based on the total woodland acreage onsite directly impacted by habitat loss and indirectly impacted by habitat fragmentation. The costs associated with acquisition, restoration, and management of the habitat protected shall be included in the mitigation fee. Impacts on woodland habitat and

mitigation requirements shall be addressed in a Biological Resources Study and Important Habitat Mitigation Plan as described in Policy 7.4.2.8."

2. CONSERVATION FUND IN-LIEU FEE METHODOLOGY

A series of steps and analyses were applied to document and develop the fee, which accounts for the full cost of mitigation, including acquisition, monitoring, and management. The steps to develop the fee included the following:

- ➤ Clarification of the Option B Mitigation Ratio Policy, including defining full mitigation as it applies to the fee, and clarifying the mitigation ratio of 2:1;
- > Identification of Potential Mitigation Alternatives for Acquisition, Restoration, Management and Monitoring;
- ➤ Evaluation of mitigation alternatives and development of specific alternative fee strategies;
- > Estimating the costs (and fee) of acquiring, restoring and managing oak woodlands; and
- > Methods for annual adjustments to the fee.

Each of these steps is described in this appendix.

3. CLARIFICATION OF OPTION B MITIGATION RATIO

Mitigation is required for impacts resulting from the loss of habitat and fragmentation of oak woodlands due to development. The Option B policy states that compensation be applied to oak woodlands "...directly impacted by habitat loss and indirectly impacted by habitat fragmentation. The costs associated with acquisition, restoration, and management of the habitat protected shall be included in the mitigation fee." Option B further references General Plan Policy 7.4.2.8, which relates to the Integrated Natural Resources Management Plan (INRMP) conservation fund. Subsection C of Policy 7.4.2.8 describes that a program be established "...to facilitate mitigation of impacts to biological resources resulting from projects approved by the County that are unable to avoid impacts on important habitats." For the OWMP to be consistent with the INRMP, mitigation needs to address, at a minimum, the biological resources associated with oak woodland habitats.

As contained in the Option B policy, full mitigation for the impacts is expressed at a 2:1 compensatory fee ratio. However, the policy does not make clear how this ratio is applied, whether using a unit measurement (e.g., per tree, per acre, dbh, etc.) or basing it on a valuation or performance measurement (e.g., canopy cover) approach. The next section provides research into the clarification of the mitigation fee ratio.

HISTORIC REFERENCE AND CLARIFICATION OF OPTION B MITIGATION FEE RATIO

This section reviews the history of the County's Option B mitigation fee ratio policy as described in the 2004 General Plan/DEIR, the CEQA Statement of Overriding Considerations, and the Motion for Review of County's Return to Writ of Mandate-Ruling. The intent of the mitigation ratio policy is to provide compensation for impacts resulting from the loss of habitat and fragmentation of oak woodlands due to development. The mitigation ratio policy is included in the Oak Woodland Management Plan (OWMP), which serves as the "oak woodland portion" of the Integrated Natural Resources Management Plan (INRMP) in accordance with General Plan Policy 7.4.2.8, General Plan Implementation Measure CO-P, and implementing Option B of General Plan Policy 7.4.4.4 (i.e., oak tree mitigation fees).

REGULATORY GUIDANCE & POLICY

As described earlier, regulatory guidance for the OWMP is derived from several sources. At the State level, SB1334 (Kuehl) (codified as PRC §21083.4) addresses the issue of oak woodlands' environmental impacts under CEQA and provides a list of acceptable mitigation measures including, but not limited to, new plantings, conservation, and funding to the Oak Woodlands Conservation Fund.

On the local level, the policies of the 2004 General Plan and DEIR reflect the County's commitment to providing an in-lieu payment alternative as noted in the Court Ruling. The related General Plan policies and measures are summarized in the following table:

The 2004 General Plan DEIR contains analyses of impacts to oak woodlands and provides mitigation measures. The mitigation measures provide direction for policies contained in the Conservation and Open Space Element of the General Plan and for the development of an INRMP. General Plan Policy 7.4.4.4 of the Conservation and Open Space Element presents two mitigation alternatives including Option B, which allows for an in-lieu contribution to a conservation fund at a 2:1 ratio. However, none of the policies and measures referenced above provides a clear interpretation or methodology of the mitigation ratio.

POSSIBLE RATIONALE FOR THE MITIGATION RATIO METHODOLOGY

Neither the DEIR nor the General Plan directly contains a particular methodology for how the 2:1 ratio was formulated. Nevertheless, a *possible* rationale for determining such a ratio is found in the DEIR. The DEIR states, "As with policies in the Conservation and Open Space Element, much of the focus of the measures in the implementation program is on identification of important biological resources and reduction of impacts on those resources." "Given the amount of habitat that is expected to be removed and fragmented by 2025, a substantial amount of compensatory mitigation (e.g., habitat purchased by the County to be preserved in perpetuity) would be needed in addition to avoidance and

minimization measures to reduce this impact to a less-than-significant threshold" (EDAW, 2003, Page 5.12-48). Therefore, it appears that the 2:1 ratio was derived in large part to provide sufficient funding for the Conservation Fund to implement mitigation that would reduce impact from General Plan implementation to less than significant levels.

ATTEMPTS TO CLARIFY THE MITIGATION RATIO

Further attempts to clarify the mitigation ratio as reflected in the 2004 General Plan/DEIR, Master Responses to Comments of the 2004 General Plan, the CEQA Statement of Overriding Considerations, and the Motion for Review of County's Return to Writ of Mandate-Ruling are presented below:

2004 El Dorado County General Plan

The most specific reference to the mitigation ratio found in the General Plan is expressed in Option B of Policy 7.4.4.4. The full text of Option B reads as follows:

The project applicant shall provide sufficient funding to the County's INRMP conservation fund, described in Policy 7.4.2.8, to fully compensate for the impact to oak woodland habitat. To compensate for fragmentation as well as habitat loss, the preservation ratio shall be 2:1 and based on the total woodland acreage onsite directly impacted by habitat loss and indirectly impacted by habitat fragmentation. The costs associated with acquisition, restoration, and management of the habitat protected shall be included in the mitigation fee. Impacts on woodland habitat and mitigation requirements shall be addressed in a Biological Resources Study and Important Habitat Mitigation Plan as described in Policy 7.4.2.8.

The General Plan policy, derived from Mitigation Measure 5.12-1(f) in the DEIR, calls for compensation for habitat loss and fragmentation at a 2:1 ratio. This ratio is based upon the total woodland acreage onsite directly impacted by habitat loss and indirectly impacted by habitat fragmentation. While the policy does not offer any clear interpretation of how the impacted woodland acreage would be assessed at the 2:1 ratio, an assumption could be made that the mitigation fees paid could reflect double the costs associated with acquisition, restoration, and management of habitat.

Master Responses to Comments of the 2004 General Plan

A number of comments to the General Plan addressed the issue of oak tree canopy protection and related policies and mitigation measures proposed in the DEIR. Master Response #18 included specific statements about Option B. The response stated that the intent of this option is "to preserve (through acquisition or conservation easements) existing woodlands of equal or greater biological value as those lost." The response goes on to include that "Option B... is designed to facilitate the preservation of larger blocks

of contiguous habitat, generating at least twice as much funding for habitat protection as Option A." This appears to indicate that the mitigation ratio is designed to achieve a substantial amount of compensatory mitigation given the amount of habitat that is expected to be removed and fragmented in the future.

Motion for Review of Return to Writ of Mandate

The Sacramento County Superior Court affirmed PRC Section 21083.4(b) (3), which allows for the establishment of mitigation fees for oak woodland habitat preservation. The Motion for Review of County's Return to Writ of Mandate - Ruling (Superior Court of California, County of Sacramento dated August 31, 2005) found that "the current DEIR proposed an alternative to the retention requirements, 'Option B', which allows the County to require a project applicant to provide funding for woodland preservation in lieu of on-site canopy retention. The preservation would be at 2:1 ratio and would allow the County to pool funds and apply them towards acquisition and restoration projects that would preserve larger contiguous blocks of habitat" (Court Ruling, Page 5).

The Court Ruling upholds the General Plan's policy of establishing an in-lieu mitigation fee as reflected in Option B of Policy 7.4.4.4. Like the General Plan, the Court Ruling references the 2:1 mitigation ratio and describes the intent of the ratio as a means to fund habitat acquisition and restoration projects. However, the ruling does not offer any specific interpretation of the ratio.

CEQA Statement of Overriding Considerations

The CEQA Statement of Overriding Considerations associated with the adoption of the 2004 General Plan does not directly mention the 2:1 mitigation ratio. Under Environmental and Biological Considerations section, it does refer to "standards for development and implementation of countywide Integrated Natural Resources Management Plan" and "minimum mitigation ratios for loss of important biological habitat." However, this document does not offer any further direction or interpretation of the mitigation policy.

In sum, both the 2004 General Plan/DEIR and the Court Ruling provide policy direction for the implementation of the 2:1 mitigation ratio, which would include funding for habitat acquisition, restoration, and management. The CEQA Statement of Overriding Considerations only refers to a minimum mitigation ratio for loss of habitat without referencing a specific compensatory ratio. None of the aforementioned sources provides a clear interpretation of the mitigation ratio.

CONCLUSION

The County of El Dorado has established policies in its 2004 General Plan that not only address the retention and replacement of oak woodlands, but which also direct the establishment of a compensation fund based upon a 2:1 mitigation ratio. Option B references the mitigation ratio in terms of total acreage impacted on-site, but does not

offer a clear interpretation of how such impacts would be assessed for the purposes of determining a mitigation fee structure. The findings contend that the project proponent would compensate for the full costs of mitigation based upon the total impacted acreage (direct and indirect) and the costs associated with the acquisition, restoration, management and monitoring of oak woodland habitat. For consistency with the General Plan language, the implementation of the fee would be based on total acreage impacted on-site, with the fee structured on a per acre basis. For each acre of oak woodland that is lost, the mitigation ratio of 2:1 would require payment of twice the fee per acre.

4. ACQUISITION AND MANAGEMENT ALTERNATIVES

There are a number of potential alternatives for acquiring and managing oak woodlands. Primary mechanisms for acquiring lands are to either gain control of land outright through fee title, or to restrict the use of land that remains in private ownership through voluntary conservation easement. In either case, the purpose of acquisition is to preserve land in perpetuity for conservation from willing sellers.

Management activities help to ensure the viability of the land to support oak tree growth and habitat functions. Depending on the existing condition of the land, the purpose and intensity of uses, and habitat quality, different levels of management would be needed. Activities include biological surveys, planting of oak seedlings and installation of fencing for seedling protection, fuels treatment and weed control.

Monitoring involves determining the on-going success of the off-site mitigation sites. Monitoring activities include annual field visits, photo documentation, tracking of oak tree mortality rates, and database management.

5. COSTS OF THE MITIGATION PROGRAM

The costs for acquisition and management of oak woodlands were estimated using information from a variety of sources, including research by institutions such as the UC Integrated Hardwood Range Management Program (IHRMP); existing habitat conservation fee programs implemented by local jurisdictions; discussions with local land trusts that manage conservation easements; case studies compiled by the Center for Natural Lands Management; and research using the Metro Listing Services for recent land prices in El Dorado County. The information contained from each source assisted with building the range of estimated costs for each mitigation component (acquisition, management and monitoring).

A cost spreadsheet model was developed that incorporates the cost for each program element. The spreadsheet model is an adaptation of the Property Analysis Record (PAR) model developed by Center for Natural Lands Management, which is an industry accepted tool to derive mitigation costs that are applicable to the mitigation site. The model divides the cost variables into those costs that are considered initial capital costs

(one time), and those that are considered on-going (annual) costs. The annual costs are dependent on the frequency or regularity of the on-going activities (e.g., annual monitoring versus less than annual monitoring).

There are key considerations and program cost assumptions that provide the underpinnings for the oak woodlands mitigation fee. They are listed below:

Key Oak Woodlands Program Considerations

- Provide compliance flexibility by allowing affected landowners to contribute to the offsite mitigation fund or to meet mitigation requirements by preserving comparable habitat.
- Designate areas for preservation or conservation of oak woodlands with high biological value.
- Establish an endowment that provides for on-going management/monitoring of mitigation sites. The endowment would ensure funds are available in perpetuity (assuming a minimum investment rate of return) for these activities and that inflation cost adjustments are accounted for.

Program Costs And Fee Development Assumptions

- Basic fee unit: acreage.
- Cost categories for management include: biotic surveys; weed control; and fuels treatment.
- Cost categories for monitoring include: site monitoring and reporting; office and field equipment cost allocation, and endowment processing.
- Contingency and administrative overhead expressed as percentages of total costs (e.g., 10% for contingency and 20% for administration).
- A sampling of land acquisition costs within the priority conservation areas and habitat connectivity areas using the MLS during November 2006 through July 2007.
- Conservation easement values (relative to fee title) are on a sliding scale relative to acquisition acreage. Easement acquisitions less than 5 acres are valued at 90 percent of fee title; between 5 and 40 acres, valued at 50 percent of fee title; and over 40 acres, valued at 25 percent of fee title.
- Annual adjustment to the fee using appropriate indices, including changes in assessed land valuation recorded by the El Dorado County Assessor's Office, and wage rate changes in forestry and conservation related employment reported by the BLS for California.

Total cost of the off-site mitigation program is based on the acreage that is designated as priority conservation area multiplied by the mitigation cost per acre.

Model Inputs

The cost spreadsheet model includes certain types of costs that are associated with long term stewardship of conservation property. These costs include consideration of the elements in Table B-1.

Ta Costs Associated with Long Term	able B-1 Stewardship of Conservatio	n Property
Expenditure	Specification	Unit Type
Acquisition	1	
Fee Title Purchase	Parcel	Acre
Conservation Easement	Parcel	Acre
Attorney review of CE	Attorney review	Item
Site Inspection, coordination between County & landowner	Preserve manager	Labor hours
Survey by Land Surveyor	Report & Map	Item
Appraisal	Report	Item
Title Insurance	Report & Policy	Item
County Survey Map Processing	Government Services	Labor hours
Biotic Surveys		
Qualified Professional	Species Surveys	Labor hours
Project Management	Supervision/Coordination	Labor hours
Survey Equipment	Equipment	Item
Habitat Management	1	
Weed Control	Spraying	Labor hours
Weed Control	Herbicide	Gallon
Fuels Treatment	Fire Prevention	Acre
Reporting/Monitoring		
Database Management	Report	Labor hours
Aerial Photos	Photos	Item
Photo documentation	Field Survey/Site Evaluation	Labor hours
Office Maintenance		
Office Equipment/Computers	Desktop Computer Allocation	Item
Field Equipment		
Vehicle	Fuel & Maintenance	Mileage
Binoculars Binoculars		Item
Chemical Sprayer	5 Gallon	Item
Operations		
Endowment	Process Endowment	Labor hours

Costs for management activities take into account such factors as the estimated hours of labor to provide the service, as well as an allocation of the use of a piece of equipment. For example, the cost of field and office equipment can be shared over a given number of mitigation projects. Therefore, only a marginal cost is applied to any single project. Hours of labor are estimated from case studies of other habitat conservation efforts on a per acre basis.

Cost of mitigation includes annual site monitoring. The cost model annualizes costs for activities that are undertaken at given intervals, such as every year, every 5 years, 10 years, etc. For example, an activity that costs \$100 and is conducted every 5 years will have an annual cost of \$20 in the model.

A sample of current land values in the PCAs was collected using the MLS between November 2006 and July 2007 to provide approximations for fee title acquisition costs. Data from local land trusts such as the American River Conservancy was also collected through phone contact and electronic mail to provide approximations for conservation easement acquisition costs. Other conservation easement information was also collected from other land trusts including from the Amador Land Trust, Sacramento Valley Conservancy, Solano Land Trust, Yolo Land Trust, Wildlife Heritage Foundation and the Peninsula Open Space Trust.

In general, for fee title acquisitions in the County, the price per acre decreases as the number of acres purchased increases. For example, based on agricultural land price data obtained from the MLS, for fee title purchase of under 5 acres, the average price per acre is about \$83,000. For purchase of between 5 and 40 acres, the average price per acre decreases to about \$26,000. For 40 acres or more, the average price per acre drops to about \$9,000. These examples show that land purchase prices vary based on the number of acres included in the transactions. Residential zoned properties available for fee title acquisition were shown to have a much higher cost per acre versus agricultural property by more than double.

The value of conservation easements held by the American River Conservancy also varied. Two large easements along the Consumnes River (Garabaldi Ranch 1,178 acres, and Morales Ranch 1,815 acres) cost on average \$1,060 per acre. However, other much smaller easements had a higher cost (Chili Bar \$90,000 per acre for 4 acres, and North Fork of Consumnes \$2,375 per acre for 80 acres). Easements in other counties, such as Solano, were estimated on average at about \$6,000 per acre for transactions that involve prime farmland, rangeland and along freeways (higher end of the cost range). Easement costs are driven by the development potential on the property as valued by a qualified appraiser for the purchase of the development rights.

Other specific costs associated with each type of mitigation is shown in Exhibit A. Management costs are derived from case studies and provide estimated labor hours and itemized costs to provide these activities. To ensure that fee revenues are available to pay for on-going costs in perpetuity, an endowment fund was included in the monitoring cost.

The endowment fund accounts for a substantial portion of the monitoring component of the fee because funding of the endowment must be sufficient to generate interest every year to avoid drawing down the principal investment to pay for on-going costs. In addition, the endowment must generate interest that is reinvested with the principal to account for future cost increases due to inflation. The assumed interest rate of return in the fee structure is six percent (3 percent allocated toward on-going costs, and 3 percent reinvested for inflation adjustment).

To maintain flexibility in the implementation of the Option B program, costs were estimated separately for each mitigation component (acquisition, management and monitoring). This cost structure would enable an applicant to undertake certain mitigation activities on their own if they choose, and then pay only the remaining fee components. For example, the landowner/developer could acquire off-site land for mitigation, subject to County approval, in-lieu of paying the acquisition portion of the fee. The landowner/developer would then pay the County the balance of the fee for management and monitoring.

Summary of Costs/Fees

For a project proponent to compensate for the full costs of mitigation, the direct costs for the total impacted acreage plus the indirect costs associated with the acquisition, management, and monitoring of the replacement acreage must be taken into account. To be consistent with the General Plan, the fee is structured on a per acre basis. Table B-2 exhibits the (Policy 7.4.4.4 Option B) Conservation Fund in-lieu fee per acre. For each acre of oak woodland that is lost, the mitigation ratio of 2:1 would require payment of twice the fee per acre. For each acre of oak woodland removed, therefore, the project proponent would pay \$14,600 into the Conservation Fund.

100% Rural Land Acquisition (Cost per Acre)

Table B-2				
CONSERVATION FUND IN-LIEU FEE				
	Cost Per Acre			
Acquisition ¹	\$3,300			
Management ²	\$1,400			
Monitoring ³	\$2,600			
Total Cost/Fee Per Acre	\$7,300			

- (1) 100% conservation easement for low range of acquisition cost. 100% fee title for high range of acquisition cost. Assumes rural land acquisition of 40 acres and over.
- (2) Includes endowment for on-going monitoring.
- (3) 10% Contingency and 20% administration costs added to each cost component.

The fee assumes acquisition (conservation easement or fee title) is on rural land, which encompasses the PCAs.

6. COST COMPONENTS OF THE IN-LIEU FEE MITIGATION PROGRAM

Source of Costs.

Costs were estimated using information from a variety of sources, including research by institutions such as the UC Integrated Hardwood Range Management Program (IHRMP); existing habitat conservation fee programs implemented by other counties; discussions with land trusts that manage conservation easements; case studies compiled by the Center for Natural Lands Management; and research using the Metro Listing Services for recent land prices in El Dorado County. The information contained from each source assisted with building the range of estimated costs for each mitigation component (acquisition, management, and monitoring).

A cost spreadsheet model was developed that incorporates the cost for each program element. The spreadsheet model is an adaptation of the Property Analysis Record (PAR) model developed by the Center for Natural Lands Management, which is an industry accepted tool to derive mitigation costs that are applicable to the mitigation site. The model divides the cost variables into those costs that are considered initial capital costs (one time), and those that are considered on-going (annual costs). The annual costs are dependent on the frequency or regularity of the on-going activities (e.g., annual monitoring versus less than annual monitoring).

Fee Components.

<u>Acquisition</u>: Acquisition costs consist of the actual cost of the conservation easement; attorney review of the conservation easement; a site inspection; a survey by a land surveyor; an appraisal; and County survey map processing.

A sampling of land acquisition costs within the PCAs was conducted using the MLS during November 2006 through July 2007. Data regarding conservation easements was collected from the American River Conservancy, Amador Land Trust, Sacramento Valley Conservancy, Solano Land Trust, Yolo Land Trust, Wildlife Heritage Foundation and the Peninsula Open Space Trust.

It is important to note that while the fees have been disaggregated per acre, it is not reasonable, for example, for an attorney to review a conservation easement for \$63 or a land surveyor to survey for \$38. These fees are based on a 40-acre conservation easement acquisition. Therefore, unit costs and initial costs have been provided. This caveat applies to Management and Monitoring disaggregated per acre fees as well. Table

B-3 exhibits the disaggregated Acquisition Fee component of the Conservation Fund inlieu fee.

Table B-3 ACQUISTION FEE COMPON Disaggregation per Acre (based on 40 acres)	Unit Cost/ Initial Cost	
Conservation Easement Acquisition	\$2,327	\$2,327
Attorney Review	\$63	\$2,500
Site Inspection	\$1,700	
Survey by Land Surveyor	\$1,500	
Appraisal	\$38	\$1,500
County Survey Map Processing	\$2	\$960
SUBTOTAL	\$2,511	\$10,487
30% contingency/admin	\$754	\$3,146
TOTAL	\$13,633	
(rounded to):	\$3,300	

Management: Management costs consist of biotic surveys, weed control (an on-going cost), and fuels management. A biotic survey in drafting conservation easements is necessary in order to establish the natural resource value and to establish a baseline survey. Weed control and fuels management lessen the risk of catastrophic wildfire, as vegetation removal and management keeps landowners, nearby residents, firefighters, and oak woodlands in a safer condition, which also reduces liability on the land trust and County. Table B-4 exhibits the disaggregated Management Fee component of the Conservation Fund in-lieu fee.

Table B- MANAGEMENT FEE Disaggregation (based on 40	Initial Cost/ Ongoing Cost	
Qualified Professional	\$80	\$3,200
Project Management	\$85	\$1,360
Survey Equipment		\$1,000
Weed Control/Spraying	\$224	
Weed Control/Herbicide	\$20	
Fuels Treatment \$950		\$950
SUBTOTAL	\$1,115	\$6,754
30% contingency/admin	\$335	\$2,026
TOTAL	\$8,780	
(rounded to):	\$1,400	

<u>Monitoring</u>: Monitoring costs consist of site monitoring, reporting, and endowment processing. Monitoring and reporting include database management, aerial photos, and photo documentation. Land trusts monitor their conservation easements to ensure long-term protection of the resource. Land trusts assume the legal obligation to carry out the

donor's desires by upholding the terms of the easement in perpetuity. In order to carry out these on-going liabilities, an endowment is necessary for easement upkeep. Table B-5 exhibits the disaggregated Monitoring Fee component of the Conservation Fund in-lieu fee.

Table B-5	Unit	
MONITORING FEE C	Cost/	
Disaggregation p	er Acre	Initial
(based on 40 a	cres)	Cost
Endowment	\$2,235	\$2,235
Database Management/		
Reporting	\$21	\$840
Aerial Photos	\$25	\$1,000
Photo Documentation	\$700	
Office Equip./Computers	\$200	
Vehicle	\$67	
Binoculars \$10		\$400
Chemical Sprayer \$3		\$107
Endowment Processing \$18		\$720
SUBTOTAL \$2,337		\$6,269
30% contingency/admin	\$1,881	
TOTAL	\$8,150	
(rounded to):	\$2,600	

<u>Total Cost/Fee per Acre:</u> The total cost/fee per acre includes 10% contingency and 20% administrative costs (overhead costs of the land trust), which are built into the individual cost components.

Endowment and Adjustments:

An endowment for on-going monitoring is necessary to ensure County compliance on both project and County-wide levels.

Adjustments to the fee in future years would need to be made to account for expected cost increases to acquire land and for land management activities. The land acquisition fee, for instance, would be adjusted based on the annual or five-year change in land value for property uses similar to those in the PCAs recorded by the County Assessor's Office, using the Assessor's Property System Use Codes. Similar adjustments would need to be made for the other cost components of the fee.

7. ADJUSTMENTS TO THE FEE

As costs for off-site mitigation grow over time, there would be a need to adjust the fee to closely match future cost increases. Provided that the fee structure is divided among the mitigation components (acquisition, management and monitoring), adjustments can be made according to appropriate measures that pertain to each of the components. For

instance, the acquisition portion of the fee can be adjusted annually by the year-to-year change (or five or ten-year average change) in assessed valuation of County land as recorded by the County Assessor using the Property System Use Codes. Land uses excluded from the OWMP (e.g., commercial/industrial, community regions and rural centers, and low density residential) would not be included in the assessed valuation determination. According to the County Assessor data, from 1996 through 2006, total assessed land valuation for rural residential and farmland security zones increased on average by seven percent per year over the past ten years, and by nine percent over the past five years (2001 through 2006). The table below shows the change in assessed valuation for rural residential and farmland security zones.

Table B-6: Assessed Valuation for Rural Residential and Farmland Security Zones 1996 – 2006

Year	Valuation	Percent Change
1996	1,192,722,423	
1997	1,213,220,701	2%
1998	1,240,161,432	2%
1999	1,287,669,871	4%
2000	1,345,818,292	5%
2001	1,438,363,826	7%
2002	1,505,076,338	5%
2003	1,626,184,599	8%
2004	1,725,828,197	6%
2005	1,992,765,153	15%
2006	2,236,419,067	12%
Avg.		7%

Notes: Total valuation using Assessor Property

System Use Codes 21-26, and 55. Source: El Dorado County Assessor

Adjustments to the management and monitoring fees can be made according to the change in the State's mean wage rate for forestry and conservation related employment reported by the BLS. Provided that on-going management and monitoring costs are generally labor driven, changes in wage rates is an appropriate measure for the fees.

Five forestry and conservation related occupations reported by the BLS are identified and can be tracked for the change in wages for these occupations. The occupations include: Conservation scientists; Foresters; Forest and conservation technicians; First-line supervisors/managers of forestry workers; and Forest and conservation workers. According to BLS data specific to California, from 2000 through 2006, the average

change in wages for these occupations was 2.2 percent per year. The table below shows the change in wages for these related professions.

Table B-7: Change in Wage Rates for Forestry and Conservation Related Employment 2000 - 2006

Conservation Scientists	i		
Occupational Code 19-	1031		
Year	Hourly Wage	Salary	% Change
2000	\$ 26.45	\$ 55,010	
2001	\$ 26.67	\$ 55,470	0.8%
2002	\$ 27.01	\$ 56,180	1.3%
2003	\$ 27.74	\$ 57,700	2.7%
2004	\$ 28.71	\$ 59,720	3.5%
2005	\$ 30.74	\$ 63,930	7.0%
2006	\$ 31.43	\$ 65,370	<u>2.3%</u>
Average			2.9%

Foresters			
Occupational Code 19-	1032		
Year	Hourly Wage	Salary	% Change
2000	\$ 24.79	\$ 51,570	
2001	\$ 25.80	\$ 53,660	4.1%
2002	\$ 25.67	\$ 53,390	-0.5%
2003	\$ 27.71	\$ 57,640	8.0%
2004	\$ 28.69	\$ 59,670	3.5%
2005	\$ 23.16	\$ 48,160	-19.3%
2006	\$ 26.83	\$ 55,810	<u>15.9%</u>
Average			1.9%

Forest and Conservation			
Occupational Code 19-	4093		
Year Hourly Wage		Salary	% Change
2000	\$ 15.51	\$ 32,260	
2001	\$ 15.88	\$ 33,040	2.4%
2002	\$ 15.92	\$ 33,110	0.2%
2003	\$ 14.01	\$ 29,140	-12.0%
2004	\$ 14.77	\$ 30,720	5.4%
2005	\$ 15.21	\$ 31,640	3.0%

¹ The BLS contains separate wage data for Natural Scientists located in the Sacramento/Yolo area. However, this occupational heading is broad and does not specifically reflect forestry and conservation related professions.

$\begin{array}{c} \textbf{Appendix B} \\ \textbf{Option B} - \textbf{Mitigation Fee} \end{array}$

2006	\$ 16.93	\$ 35,220	<u>11.3%</u>
Average			1.7%

First-Line Supervisors/Managers of Farming, Fishing, and Forestry Workers					
Occupational Code 45	5-1011				
Year	Hourly Wage	Salary	% Change		
2000	\$ 16.49	\$ 34,300			
2001	\$ 16.71	\$ 34,750	1.3%		
2002	\$ 16.86	\$ 35,070	0.9%		
2003	\$ 17.15	\$ 35,670	1.7%		
2004	\$ 16.62	\$ 34,570	-3.1%		
2005	\$ 15.62	\$ 32,490	-6.0%		
2006	\$ 15.99	\$ 33,270	2.4%		
Average			-0.5%		

Forest and Conservation	on Workers		
Occupational Code 45	-4011		
Year	Hourly Wage	Salary	% Change
2000	\$ 8.30	\$ 17,270	
2001	\$ 9.46	\$ 19,670	13.9%
2002	\$ 9.88	\$ 20,540	4.4%
2003	\$ 10.24	\$ 21,290	3.7%
2004	\$ 10.72	\$ 22,300	4.7%
2005	\$ 11.05	\$ 22,980	3.0%
2006	\$ 10.93	\$ 22,730	<u>-1.1%</u>
Average			4.8%

Average Wage Growth of All Occupations: 2.2%

Source: Federal Bureau of Labor Statistics (BLS).

Appendix B Exhibits

Exhibit A - Cost Model Results

Assumes 100% Rural Conservation Easement

Expenditure	Specification	Unit Type	Unit Count	Unit Cost	Initial & Capital Years	Initial & Capital Costs	Ongoing Years	Ongoing Costs
Acquisition								
Conservation Easement	Parcel	Acre	40	\$2,327	1	\$93,075	0	\$0
Attorney review of CE	Attorney review	item	1	\$2,500.00	1	\$2,500	0	\$C
Site Inspection, coordination between	,							
County & landowner	Preserve manager	L. hours	20	\$85.00	1	\$1,700	0	\$C
Survey by Land Surveyor	Report & Map	Item	1	\$1,500.00	1	\$1,500	0	\$C
Appraisal	Report	Item	1	\$1,500.00	1	\$1,500	0	\$C
County Survey Map Processing	Government Services	L. Hours	12	\$80.00	1	\$960	0	\$C
Habitat Restoration								
Tree Planting/Replanting	Tree Seedling installation	Item	4000	\$10.00	1	\$40,000	0	\$0
Non Native Species Removal	Non Native Species Removal	L. hours	32	\$35.00	1	\$1,120	10	
Biological Surveys								
Qualified Professional	Species Surveys	L. Hours	40	\$80.00	1	\$3,200	10	\$320
Project Management	Supervision/Coordination	L. Hours	16	\$85.00	1	\$1,360	10	
Survey Equipment	Equipment	Item	1	\$1,000.00	1	\$1,000	10	
Habitat Maintenance				Ţ.,,000.000		7.7555		*
Weed Control	Spraying	L. Hours	32	\$35.00	0	\$0	5	\$224
Weed Control	Herbicide	Gallon	5	\$20.00	0	\$0	5	
Fuels Treatment	Fire Prevention	Acre	40	\$950.00	1	\$38.000	0	
Reporting/Monitoring	THETTEVENTION	7.616	10	Ψ700.00		Ψ00,000	J	Ψ
Database Management/Reporting	Report	L. Hours	24	\$35.00	1	\$840	1	\$840
Aerial Photos	Photos	Item	1	\$1,000.00	1	\$1,000	5	
Photodocumentation	Field Survey/Site Evaluation	L. Hours	20	\$35.00	1	\$700	0	
Photodocumentation	Field Survey/Site Evaluation	L. Hours	20	\$35.76	1	\$700	0	
Photodocumentation	Field Survey/Site Evaluation	L. Hours	20	\$36.55	1	\$713	0	
Photodocumentation	Field Survey/Site Evaluation	L. Hours	20	\$37.34	1	\$747	0	
Photodocumentation	Field Survey/Site Evaluation	L. Hours	20	\$38.16	1	\$763	0	
Photodocumentation	Field Survey/Site Evaluation	L. Hours	20	\$38.99	1	\$780	0	
Photodocumentation	Field Survey/Site Evaluation	L. Hours	20	\$39.85	1	\$780	0	
Photodocumentation	Field Survey/Site Evaluation	L. Hours	20	\$40.72	1	\$814	0	
Photodocumentation	Field Survey/Site Evaluation	L. Hours	20	\$41.61	1	\$832	0	
Photodocumentation	Field Survey/Site Evaluation	L. Hours	20	\$42.52	1	\$850	10	
Office Maintenance	Tield Survey/Site Evaluation	L. HOUIS	20	\$4Z.JZ	·	\$630	10	\$00
Office Equipment/Computers	Computer, printer, materials	Item	0.1	\$2,000.00	1	\$200	5	\$40
Field Equipment	Computer, printer, materials	пеш	0.1	\$2,000.00	1	\$200	J	¥40
Vehicle	Fuel & Maintenance	Miloogo	150	\$0.45	1	\$67	1	\$67
Binoculars	Binoculars	Mileage Item	100	\$400.00	1	\$400	5	
	5 Gallon	Item	1	\$107.00	1	\$400 \$107	5	
Chemical Sprayer	3 Gallott	пеш	-	\$107.00	!	\$107	3	\$21
Operations	Dra a cas En dayum ant	l le cure	24	\$30.00	1	\$720	1	\$720
Endowment	Process Endowment	L. hours	24	\$30.00	I.		'	
Subtotal Conservation Easement						\$196,979		\$2,032
0 11 0 100						440.400		***
Contingency @ 10%						\$19,698		\$203
A desiriate tion @ 200/						¢ 40,005		0.447
Administration @ 20%						\$43,335		\$447
Tabal Oaman and an E						6010.515		40.100
Total Conservation Easement Total Conservation Easement per Acre						\$260,012 \$6,500		\$2,682 \$67

Endowment Amount

Endowment Amount	\$89,398	\$2,235	Cost/acre
Capitalization Rate	3.0%		
Inflation	3.0%		
Investment Return	6.0%		
	Year 1 (After Funding)	Per Acre	
Starting endowment	\$89,398	\$2,235	
Investment Earnings	\$5,364	\$134	
Annual expenditure	\$2,682	\$67	
Inflation re-invested into endowment	\$2,682	\$67	
Ending endowment balance	\$92,080	\$2,302	

Assumptions: Capitalization Rate is investment return less inflation.

Fee Per Acre for Conservation Easement
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NOTE: Habitat Restoration was removed from this cost to reach a per-acre fee of \$7,300.