COACHELLA VALLEY CONSERVATION COMMISSION

FINAL REPORT 2011 LOCAL DEVELOPMENT MITIGATION FEE NEXUS STUDY

May 16, 2011



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Executive Summary

Introduction

Beginning in 1994 local, state, and federal agencies responsible for regulating development and protecting habitat in the Coachella Valley participated in an extensive and comprehensive planning process. This planning effort has produced the Coachella Valley Multiple Species Habitat Conservation Plan/Natural Community Conservation Plan (MSHCP).

The California Department of Fish and Game issued the Natural Community Conservation Plan (NCCP) Permit for the MSHCP on September 9, 2008. The U.S. Fish and Wildlife Service issued the federal permit (the "Permit") for the MSHCP on October 1, 2008. The Permit will expire in 2083, or 75 years from its date of issuance.

The policy objectives of the MSHCP are to:

- (1) Conserve adequate habitat in an unfragmented manner by assembling a Reserve System of habitat lands and then managing and monitoring these lands in perpetuity to maximize their conservation value, and
- (2) Simplify compliance with environmental laws by providing an efficient and streamlined regulatory approach to provide incidental take authority for otherwise lawful and permitted activities such as new development.

The MSHCP obligates its Local Permittees to establish a Reserve System of lands to provide habitat for Covered Species and conserved natural communities. After these lands are acquired by Permittees, the Permittees are obligated to fund a monitoring program to track and measure success of the Covered Species within the Reserve System, and a management program to assess and tailor preservation activities and land management practices in order to conserve Covered Species and natural communities in perpetuity.

Land acquisition is a critical component of the conservation process because conserving land mitigates the effects of development and urbanization discussed below. Monitoring and Management (M&M) programs serve as an ongoing evaluation of the efficacy of conservation. The studies conducted as part of the monitoring program assesses the biological characteristics and particular needs of Covered Species and natural communities within the MSHCP. The management program conducts a range of activities to ensure that Reserve System sustains the habitat values measured by monitoring program assessments. Since land acquisition, monitoring and management are so intimately connected, conservation cannot be achieved without funding all three concurrently.

A Local Development Mitigation Fee (LDMF) imposed on new development projects will be a primary source of funding necessary to comply with the provisions of MSHCP, the Implementing

This report contains terms defined in the MSHCP, and those terms are capitalized in the body of the report. The definitions established by the MSHCP are found in Appendix B.

Agreement (IA), and the Permit. This report documents the legal and policy basis necessary for Coachella Valley cities and the County of Riverside to update the LDMF.

Urbanization in the Plan Area

The Coachella Valley (the "Valley") is a broad, low elevation, northwest-southeast trending valley comprising the westernmost limits of the Sonoran Desert. The Valley is located in the central portion of Riverside County, approximately 100 miles east of Los Angeles. The Plan Area includes approximately 1.1 million acres, an amount that excludes Indian reservation lands not subject to the MSHCP.

Growth projections are based on the estimates of residential dwelling units and commercial square feet developed annually by agencies collecting the Transportation Uniform Mitigation Fee (TUMF) and data provided by the California Department of Resources Farmland Mapping and Monitoring Program (FMMP). CVAG calculates that approximately 300 acres were developed in the two year period beginning in 2009 and ending in 2010, also known as years one and two.

Approximately 1,750 acres, on average, were developed annually over a subset of the 1989-2010 data selected to simulate a trough to peak period of the current real estate cycle. When the share of growth from the City of Desert Hot Springs is removed from this total, as the city currently does not participate in the MSHCP, the long term average rate of development is 1,610 acres per year.

Since development has slowed markedly during the recent economic downturn, the LDMF analysis assumes that the annual total of acres developed will increase gradually as the market recovers. The analysis assumes that approximately 300 acres per year will be developed in the Valley during the next few years, growing gradually to 1,610 acres per year by year 13. At this rate, a total of 110,170 acres will be developed over the remainder of the 75-year life of the MSHCP.

Need for Habitat Conservation

Identifying the MSHCP Reserve System was the result of an extensive and comprehensive analysis conducted by an inter-agency planning team and led by CVAG. The planning team used the best available scientific and commercial data standard to develop the MSHCP with objectives that include the establishment, monitoring, and management of a Reserve System.

The planning team developed a list of 27 Covered Species and 27 natural communities to provide habitat for the Covered Species. This planning process resulted in the identification of 745,900 acres across 21 conservation areas, from which the MSHCP Reserve System will be established. The Reserve System ensures the conservation of these species and natural communities as new development occurs. Without new development, there would be no need to establish the Reserve System because the loss of existing habitat would not occur as a result of development activities.

Cost of Habitat Conservation

Of the 745,900 acres in the Conservation Areas, a maximum of 22,420 acres may be developed, resulting in a Reserve System of 723,480 acres. Just over three-quarters of the MSHCP Reserve System, or 564,800 acres, have been conserved through 2010. Complementary Conservation

and state and federal contributions to MSHCP implementation will conserve an additional 59,680 acres from September 2010 forward.

An additional 7,800 acres are in areas where the only Conservation Objective is maintaining the fluvial sand transport function through flood control standards and other regulatory mechanisms; these 7,800 acres will not be acquired. This leaves 102,100 acres to be conserved. Of this, 10,800 acres are non-Permittee public and quasi-public lands, and 7,500 acres are Permittee-owned lands that will be conserved in perpetuity under the MSHCP. As of December 31, 2010, the land remaining to be purchased by Local Permittees is 86,580 acres. The LDMF is the primary funding source for this habitat acquisition program.

The LDMF is also the primary funding source of M&M for the conserved acres. M&M activities required by the MSHCP are directly related to the types and amounts of land acquired for the Reserve System. As stated in the MSHCP, the Monitoring and Adaptive Management Program is designed to increase the level of knowledge about species covered by the Plan, conserved natural communities, ecological processes, and connectivity. Changes in management of the Conservation Areas could result from monitoring studies. As a result, the cost of habitat conservation necessarily includes the research, equipment and other costs associated with the M&M programs.

An objective of the LDMF Nexus Study is to demonstrate that sufficient funding is available for the Permittees' habitat acquisition program and all M&M required for these lands after acquisition. A financial model was used to calculate the level of the LDMF needed to fully fund both acquisition and M&M programs after deducting other anticipated revenues and interest earnings on fund balances. In this model, LDMF revenue is allocated among three funds: the Land Acquisition Fund, the Monitoring & Management Fund and the Endowment Fund.

Habitat acquisition expenditures and matching revenues would be accounted for in a Land Acquisition Fund. Meanwhile, M&M expenditures and matching revenues would be accounted for in a Monitoring & Management Fund. A detailed accounting of cost and revenue components for these two funds is found in Chapter 4.

As stated in the MSHCP, the Local Permittees "shall also fund an endowment for the Monitoring and Management Programs." Further, the MSHCP states that "The Local Permittees shall establish an endowment to fund the Monitoring and Management Programs for [conserved] lands in perpetuity" (emphasis added)². Accordingly, such revenues contributed by the Local Permittees and the funds used to generate a source of perpetual funding for M&M Programs are accounted for in the Endowment Fund.

The Coachella Valley Conservation Commission (CVCC), a joint powers authority that was created to implement the MSHCP, would manage the funds as part of these responsibilities. The CVCC would stop collecting LDMF revenue and would terminate the Land Acquisition Fund after

MSHCP Section E.S.6: Obligations of the Permittees, p. ES-18.

50 years. A key objective of the Nexus Study is to support the purchase of all habitat conservation lands within 45 years.

Cost Allocation and Fee Schedule

Table E.1 presents the Local Development Mitigation Fee schedule for the MSHCP in 2011 dollars, the base year of cost and revenue estimates in this analysis. The fee would be imposed per dwelling unit for residential land uses and per acre for nonresidential land uses. Per the MSHCP, "the proposed term of the Permits is 75 years, which is the length of time required to fully fund Plan implementation." Accordingly, the LDMF is charged during the entire 75 year lifetime of the Permit.

The MSHCP states that "the acquisition program is projected to require 30 years to acquire all the Permittee obligation land." Current economic conditions make the acquisition of all Permittee obligation lands within 30 years of the MSHCP impossible without the imposition of a substantially higher fee. As a result, this analysis extends the projected land acquisition period to 45 years.

Accordingly, the fee schedule in Table E.1 below shows two distinct LDMF amounts for two different periods. The years 2011-2053 are years in which the CVCC is in the process of acquiring land. Years 2054-2083 occur after the CVCC will have completed land acquisition; during these years LDMF revenue is allocated to M&M expenses for lands already acquired, and to the endowment.

In 2054, habitat acquisition is complete and the LDMF amount is adjusted to cover remaining program costs. Since the bulk of program costs are related to land acquisition, the fee decreases by 75 percent in real terms in year 46 of the LDMF program. This adjustment is made to ensure that the CVCC does not collect more LDMF revenue than is necessary to fund the MSHCP. The financial model underlying the fee schedule in Table E.1 is designed to deplete the balance of the Land Acquisition Fund after land acquisition is complete.

MSHCP Section E.S.1: Background, Purpose, Scope, Process, and Regulatory Context, p. ES-1.

⁴ MSHCP Section E.S.1: Background, Purpose, Scope, Process, and Regulatory Context, p. ES-2.

Table E.1: Fee per Acre

	2011-2053		2054-2083
Fee per Acre ¹ Total Acres Developed ²	\$ 5,600 61,603	\$ —	1,418 48,300
Local Development Mitigation Fee Revenue	\$ 344,976,800	\$	68,489,400

Note: Local Development Mitigation Fee revenue rounded to thousands.

Sources: Tables A-1 through A-6; Willdan Financial Services.

Table E.2 shows the fee per acre calculated if development occurring in the City of Desert Hot Springs is included. Details of the impact of the entry of the City of Desert Hot Springs into the MSHCP are discussed in Chapter 1 of this analysis.

Table E.2: Fee per Acre, with Desert Hot Springs

	20	11-2053		2054-2083
Fee per Acre ¹ Total Acres Developed ²	\$	5,150 66,983	\$ —	1,304 52,500
Local Development Mitigation Fee Revenue	\$ 34	14,962,450	\$	68,460,000

Note: Local Development Mitigation Fee revenue rounded to thousands. This fee is based on an assumption that the City of Desert Hot Springs represents, on average, 8% of development in the Coachella Valley.

Sources: Tables A-1 through A-6; Willdan Financial Services.

Mitigation Fee Act Findings

Development impact fees are one-time fees, typically paid when a building permit is issued, imposed on development projects by local agencies responsible for regulating land use (cities

¹ The fee for years 2054-2083 reported in this table is an average fee for this period. Since land acquisition is complete by 2053, the fee for years 2054-2083 is adjusted so that the fee amount is just high enough to cover remaining program costs and no more.

² Excludes approximately 360 acres of development that was begun prior to MSHCP Permit approval which will be exempt from the Local Development Mitigation Fee.

¹ The fee for years 2054-2083 reported in this table is an average fee for this period. Since land acquisition is complete by 2053, the fee for years 2054-2083 is adjusted so that the fee amount is just high enough to cover remaining program costs and no more.

² Excludes approximately 360 acres of development that w as begun prior to MSHCP permit approval w hich w ill be exempt from the Local Development Mitigation Fee.

and counties). The five statutory findings required by the Mitigation Fee Act for adoption of the LDMF are summarized in Chapter 6 and supported in detail by the remainder of the report.

Implementation

The LDMF would be collected at time of, building, or other appropriate development- related permit issuance. To implement the fee this report recommends the CVCC do the following:

- Assist Local Permittees in adopting an ordinance and resolution imposing the LDMF on new development and that includes an inflation adjustment to the fee;
- Work with Local Permittees to develop administrative guidelines for the LDMF program.
- Program fee revenues to specific acquisition projects and related expenditures, including M&M and related administrative costs;
- Maintain a reasonable relationship between M&M expenditures required by the MSHCP and the inventory of land conserved for habitat, even if planned costs for either M&M or acquisition vary from the estimates provided in this analysis; and
- Identify an appropriate inflation adjustment and recalculate the fee annually for each Local Permittee to adopt.

1. Introduction

This chapter provides background the development projections used in this analysis, the Coachella Valley Multiple Species Habitat Conservation Plan (MSHCP) and the Local Development Mitigation Fee (LDMF).

The original LDMF was enacted by the legislative bodies of the County of Riverside and the Cities of Cathedral City, Coachella, Indian Wells, Indio, La Quinta, Palm Desert, Palm Springs and Rancho Mirage between February 2008 and March 2008 with the LDMF becoming effective upon issuance of the federal permit (the "Permit") on October 1, 2008. Although a member of the Coachella Valley Association of Governments, the City of Desert Hot Springs voted to not participate in the MSHCP in 2006 and is not currently a Local Permittee.

In response to changes in program revenues, costs, and projections of development since the LDMF was first adopted, the Coachella Valley Conservation Commission (CVCC) has decided to update the LDMF program and its funding plan.

This study presents the technical documentation required to update the LDMF. For the agencies to impose an updated LDMF, this analysis recognizes the following changes in key program assumptions:

- Land acquisition for the Reserve System that occurred since late 2006 has reduced the amount of acreage the CVCC must acquire in future years.
- Land price estimates have been adjusted to reflect the CVCC's recent transactional experience and priority acquisition locations in the short run, and updated market study values in the long run.
- Near term estimates of annual land development have been revised downward to reflect actual development patterns in the Coachella Valley and the constraints of current market conditions.
- The Eagle Mountain Landfill is no longer considered a source of revenue.
- The City of Desert Hot Springs has begun the process of amending the MSHCP so that the city will be a Local Permittee. Because the MSHCP has not been amended and approved by the Wildlife Agencies, this analysis includes primary calculations based on development projected for the Valley net of growth that will occur in Desert Hot Springs. An alternative scenario shows the likely reduction in the per acre LDMF amount once the calculations incorporate the participation of the city in the MSHCP.

Habitat Conservation Planning Process

Beginning in 1994 local, state, and federal agencies responsible for regulating development and protecting habitat in the Coachella Valley participated in an extensive and comprehensive planning process. This planning effort has produced the Coachella Valley Multiple Species Habitat Conservation Plan/Natural Community Conservation Plan (MSHCP). The California

Department of Fish and Game issued the Natural Community Conservation Plan (NCCP) Permit for the MSHCP on September 9, 2008. The U.S. Fish and Wildlife Service issued the Permit for the MSHCP on October 1, 2008.

The MSHCP allows the loss of natural communities and taking of species incidental to development and infrastructure projects, provided the mitigation and other measures set forth in the MSHCP are satisfied.

The policy objectives of the MSHCP are to:

- (1) Conserve adequate habitat in an unfragmented manner for the effective preservation of Covered species and conserved natural communities, and
- (2) Simplify compliance with the California Environmental Quality Act (CEQA), California Endangered Species Act (CESA), Natural Community Conservation Planning Act (NCCP), Federal Endangered Species Act (FESA), National Environmental Policy Act (NEPA), and other laws by providing an efficient and streamlined regulatory approach. The agencies that participated in the MSHCP include:
- Local government cities in the Coachella Valley, Riverside County, and five special districts⁵:
- Regional agencies Coachella Valley Association of Governments (CVAG);
- State agencies California Department of Transportation (Caltrans), California Department of Parks and Recreation, Coachella Valley Mountains Conservancy (CVMC)⁶ and California State Department of Fish and Game (CDFG); and
- Federal agencies U.S. Fish and Wildlife Service (USFWS), U.S. Bureau of Land Management, U.S. Forest Service, and National Park Service. ⁷.

Implementation of the MSHCP will reasonably mitigate the impacts on Covered Species and conserved natural communities from Covered activities including new development and associated public infrastructure projects in the Coachella Valley.

MSHCP and the Incidental Take Permit

Completion of the MSHCP enabled the CDFG and USFWS (Wildlife Agencies) to grant a Permit for the Take of Covered Species.⁸ Permittees are the local governments in the Coachella Valley

In addition to Riverside County, local agencies include the cities of Cathedral City, Coachella, Indian Wells, Indio, La Quinta, Palm Desert, Palm Springs, and Rancho Mirage, as well as the Coachella Valley Water District, Imperial Irrigation District, Riverside County Flood Control and Water Conservation District, Riverside County Regional Parks and Open Space District, and Riverside County Waste Resources Management District.

 $^{^{\}rm 6}$ CVMC prepared the MSHCP under contract to CVAG, and will also be a Permittee.

⁷BLM, U.S. Forest Service, and National Park Service are cooperative partners in the MSHCP but did not sign the Implementing Agreement.

listed above (Local Permittees) and the three state agencies (excluding CDFG) listed above (State Permittees). "Covered Species" include species that are endangered, threatened, of special concern, or otherwise covered by the MSHCP. "Conserved natural communities" refers to those natural communities protected under the MSHCP pursuant to the Natural Community Conservation Planning Act of 2002.

This type of permit is often referred to as an "Incidental Take Permit" in that it enables the Permittee to engage in an otherwise lawful activity that, as an attendant impact, causes the loss of Covered Species. The Permit also allows limited take of habitat and species for scientific purposes, also known as "scientific take".

The Permit enables the Permittees to allow or engage in activities (Covered Activities) that result in the loss of Covered Species and the conserved natural communities without implementing mitigation requirements beyond those required by the MSHCP. For example, local governments are able to approve new development and the state will be able to construct highway infrastructure in the Coachella Valley. As long as the Permittees remain in compliance with the MSHCP, they are able to conduct these types of activities without developing and implementing additional project-specific mitigation measures with respect to the Covered Species and conserved natural communities, except as may be required by the MSHCP.

The CVCC is a joint powers authority created to implement the MSHCP. Failure to adequately implement the MSHCP, such as not acquiring the lands necessary to protect habitat (described below), could result in the Wildlife Agencies suspending or revoking the Permit.

Local Development Mitigation Fee

The first requirement of the MSHCP is the establishment and ongoing monitoring and management of a Reserve System of lands to provide habitat for Covered Species and the conserved natural communities. Much of this MSHCP Reserve System already exists. Portions of the Reserve System will be established through Complementary Conservation efforts and contributions by state and federal agencies. Substantial lands remain to be purchased from private landowners to complete the Reserve System as part of the Permittees' mitigation. The Local Permittees are responsible for these habitat acquisition actions and associated monitoring and management programs.

The LDMF imposed on new development projects is a primary source of funding for the habitat acquisition program and the monitoring and management program under the MSHCP. This report documents the legal and policy basis to support the adoption by local agencies in the Coachella Valley of the LDMF, a type of development impact fee under California Government Code Section 66000 *et seq.* The fee would be adopted by Coachella Valley cities and the County of Riverside and collected from new development under their jurisdiction within the Plan Area.

⁸ The permit was granted by USFWS under the *Federal Endangered Species Act*, Section 10(a), and by CDFG under the *California Natural Community Conservation Planning Act*, California Fish and Game Code Section 2835.

The LDMF is necessary for the following two reasons:

- 1) Local Permittees Must Uphold the MSHCP's Implementing Agreement (IA). The IA, signed by Local Permittees in October of 2007, defines the roles and responsibilities of Permittees and provides a common understanding of the actions that will be undertaken to implement the MSHCP. For each local government agency to receive incidental take authority for Covered Species, the Wildlife Agencies require that the Local Permittees identify sufficient funding for implementation of the MSHCP. The Cities are also required to adopt an ordinance imposing the Local Development Mitigation Fee.
- 2) Proposed Development Must Mitigate its Impacts to Covered Species. Development projects with direct, indirect, or cumulative impacts to Covered species or critical habitat are able to mitigate those impacts with payment of the LDMF. Because the LDMF supports the completion of the MSHCP's Reserve System and associated M&M activities in perpetuity, the LDMF mitigates for the project's direct, indirect, and cumulative impacts to habitat and Covered Species under CEQA.

By creating a region-wide habitat conservation program, developers and local land use agencies are able to rely on the payment of the fee as mitigation for certain habitat impacts and can avoid a time consuming and costly process to receive incidental take authority on a project-by-project basis. Implementation of the MSHCP, including the establishment, monitoring, and management of a Reserve System, provides a comprehensive approach to mitigate such impacts for new development throughout the Coachella Valley. In addition, the MSHCP provides a basis for mitigating the impacts to Covered Species and conserved natural communities associated with the development of public infrastructure necessary to serve new development.

Without the Permit, new development approved by a local government in the Coachella Valley would face a significant constraint because projects would seek separate approval from the wildlife agencies before proceeding. Project-by-project regulatory approval for habitat mitigation would add substantially to the time and cost of the development process.

2. Plan Area Land Use

This chapter describes the boundaries of the area covered by the MSHCP (the "Plan Area"), existing land use, and estimates of growth within the Plan Area.

Plan Area Boundaries

The Coachella Valley is a broad, low elevation, northwest-southeast trending valley comprising the westernmost limits of the Sonoran Desert. The Valley is located in the central portion of Riverside County, approximately 100 miles east of Los Angeles.

The Plan Area encompasses the Coachella Valley and the surrounding mountains up to the ridgeline. The Plan Area extends west to Cabazon where it is bounded by the range line common to Range 1 East and Range 2 East. This is approximately the limit of the Sonoran or Colorado Desert in the San Gorgonio Pass area. To the east the Plan Area extends to the range line common to Range 13 East and Range 14 East. Either the ridgeline of the Little San Bernardino Mountains or the boundary line with San Bernardino County where the ridgeline extends north of the county line defines the northern boundary. On the south, either the ridgeline of the San Jacinto and Santa Rosa Mountains or the boundary line with San Diego or Imperial Counties forms the Plan Area boundary.

Existing Land Use

The Plan Area comprises approximately 1.1 million acres, an amount that excludes Indian reservation lands not subject to the MSHCP. **Table 2.1** summarizes the existing acreage within the Plan Area by land use. The acreage indicated as Urban and Rural in the table corresponds to the Developed Areas shown in Figure 1. The MSHCP Reserve System will be composed of much of the Open Space, Public and Private Conservation Lands plus some Public and Private Non-Conservation Lands to be acquired with funding from the LDMF and other sources. Indian Reservation lands are not subject to the MSHCP, reducing the total area covered by the MSHCP to approximately 1.1 million acres.

Table 2.1: Plan Area Existing Land Use

		Percent of
	Total Acres	Plan Area
I lish an	07.400	5.00 /
Urban	67,400	5.9%
Rural, Rural Residential	12,500	1.1%
Agriculture	84,900	7.5%
Lake (includes Salton Sea) ¹	43,500	3.8%
Reservoir ²	800	0.1%
Wind Energy Uses	4,400	0.4%
Quarry	900	0.1%
Landfill	400	0.0%
Public and Private Non-Conservation Lands ³	320,600	28.2%
Open Space-Public and Private Conservation Lands ⁴	601,000	<u>52.9%</u>
Total Area Covered By Plan	1,136,400	100.0%
Indian Reservation Lands (Not Covered By Plan)	69,600	.00.070
Total Plan Area	1,206,000	

Note: Land use estimates above are current as of 2007.

Source: Coachella Valley Multiple Species Habitat Conservation Plan and Natural Community Conservation Plan; Willdan Financial Services

New Development within the Plan Area

With the assistance of data developed by CVAG staff, an estimate was made for the total amount of new development anticipated within the Plan Area. These projections are used by this analysis to allocate habitat acquisition and M&M program costs to new development and to calculate the Local Development Mitigation Fee (see Chapter 4).

Planning Horizon

This analysis uses a 75-year planning horizon (2009 to 2083) to estimate future growth and assumes that the LDMF could be discontinued after that time. This analysis also assumes a 45-year land acquisition program followed by a 30-year fee collection period to fully fund an endowment that supports M&M in perpetuity.

The 75 year planning horizon was selected to match the permit term for Incidental Take Permits. One of the goals of the MSHCP was to acquire all necessary habitat for conservation in as little time as practical within the timeframe of the planning horizon. The habitat acquisition portion of the MSHCP was originally anticipated to occur within 30 years. However, the rate of development

¹ Includes Salton Sea and other natural water bodies.

² Includes Lake Cahuilla, Whitewater River recharge ponds, and other artificial water bodies.

³ Includes private lands which are primarily undeveloped and public lands used for non-conservation purposes. Public lands are owned by Riverside County, County Flood Control, Metropolitan Water District, the State Lands Commission, cities, U.S. Army Corps of Engineers, Coachella Valley Water District, U.S. Bureau of Reclamation, and the U.S. military.

⁴ Includes public lands dedicated to open space and conservation purposes and private lands owned by land trusts or conservation organizations, or protected by a conservation easement or deed restriction.

has significantly slowed, and several major sources of revenue, in particular the Eagle Mountain Open Space Trust, have become unavailable to the CVCC.

Both factors limit the CVCC in acquiring habitat according to its original timeline. Accordingly, this analysis adjusts the land acquisition period to 45 years.

The selection of a planning horizon is consistent with legal requirements for the issuance of incidental take permits that allow the take of Covered Species in the course of otherwise lawful activities such as land development. The MSHCP will, to the maximum extent practicable, minimize and mitigate the impacts of this take and provide for conservation of Covered Species.

Evaluation of a Buildout Planning Horizon

If habitat acquisition and M&M costs were spread across all new development through build out of the Plan Area then the Local Permittees would not fully fund the MSHCP until construction of "the last home" in the Coachella Valley. Because the rate of growth slows as buildout approaches, the time horizon for buildout could extend beyond 75 years given recent development trends and the amount of land available for development. This period of time is not a practicable planning horizon for the following reasons:

- Permit Compliance: The habitat acquisition program and establishment of an M&M endowment should be accomplished within a reasonable period of time. If either objective is not achieved before expiration of the Permit, the Wildlife Agencies could determine that the Permittees are not fully funding their obligations under the MSHCP and therefore are not in compliance with the Permit. Non-compliance would constrain economic development within the region by requiring each development project to separately mitigate habitat impacts.
- Land acquisition cost inflation: Acquiring land sooner rather than later will reduce total costs by limiting the impact of land price inflation. Land, particularly residential land, often increases in price faster than the average price inflation of all goods and services as development in a region intensifies. Consequently, early funding of the habitat acquisition program will reduce the total real (inflation-adjusted) cost of the program.
- Lost Conservation Opportunities: Given current development pressure, if land acquisition is not completed within the first 45 years, development within the conservation areas could impede establishment of the Reserve System.

A 75-year planning horizon was selected given these considerations. The 75-year horizon is longer than most facility financing plans because most planned development functions at a smaller scale and funds public infrastructure for a smaller increment of growth than the MSHCP. The 75-year approach also does not unfairly burden near-term development with the entire cost of the program because it spreads costs over such an extended (75-year) period.

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The amount of undeveloped land available for development is defined by land use policies contained in the existing General Plans of cities and the County within the Plan Area.

In sum, a 75-year planning horizon, by being reasonable, conservative, and flexible ensures that the Permittees can provide the maximum practicable funding and benefit from compliance with the Permit through fully funding of the MSHCP.

Growth Projections

Growth projections for the 2007 Nexus Study were based on an analysis of actual development patterns in the Plan area between 1989 and 2010, using data from the California Department of Resources Farmland Mapping and Monitoring Program (FMMP). The 2007 Nexus Study update used an estimate of acres developed per year based on historical development during the period of 1989 to 2004 for the Plan Area. Based on this analysis, CVAG then estimated that the rate of development in the Plan Area excluding Indian Reservation land has averaged 1,370 acres per year.

New Information

For this analysis, the development assumptions for Coachella Valley, including the City of Desert Hot Springs, are based on both the estimates of residential dwelling units and commercial square feet developed annually by agencies collecting the Transportation Uniform Mitigation Fee (TUMF) and data from FMMP. Development data from 1995 to 2006 was selected in order to capture real estate data from the trough year of 1995 to the peak year of 2006.

This data selection is done in anticipation that cycles like this will occur throughout the lifetime of the LDMF; the average developed acreage calculated in this study captures development through boom and bust years.

Based on this approach, the revised long term rate of growth for the jurisdictions subject to the fee is 1,750 acres per year.

The current General Plans of the Coachella Valley cities and the County of Riverside have sufficient undeveloped land zoned for urban uses within the Plan Area to accommodate this level of development. As economic conditions affecting real estate development have persisted, this analysis reduces development projections for the first eight to twelve years of the planning horizon.

A Scenario for a New Permittee

This analysis also recognizes that the City of Desert Hot Springs has begun the process of amending the MSHCP so that the city will be a Local Permittee. Because the MSHCP has not been amended and approved by the Wildlife Agencies, this analysis first presents the LDMF if based on growth projections that exclude all development in the City of Desert Hot Springs. An alternative calculation for the LDMF assumes that the MSHCP is amended so that all future development in the city is subject to the LDMF.

Development data for the City of Desert Hot Springs indicates that the City has held between 6 and 10 percent of growth in the Coachella Valley. Accordingly, the LDMF is first shown using estimates of annual developed acreage reduced by a midpoint market share for the City of 8 percent each year (see Table A-1 for the development schedule in detail).

Based on this approach, the revised long term rate of growth for the jurisdictions subject to the LDMF is 1,750 acres less 8 percent, or 1,610 acres. In the next ten years of the Plan, projected annual development slowly increases to 1,610 acres but does not surpass this amount.

Need for Habitat Conservation

Identifying the MSHCP Reserve System was the result of an extensive and comprehensive analysis conducted by an inter-agency planning team and led by CVAG. The planning team used the best scientific and commercial data available to develop the MSHCP and define activities supporting acquisition of the Reserve System, followed by monitoring and management of Reserve System lands in perpetuity. This chapter describes how the planning team originally identified lands to include in the MSHCP Reserve System.

Habitat Conservation Goals

The MSHCP was developed to achieve the following habitat conservation objectives:

- Represent native ecosystem types or natural communities across their natural range of variation in a system of conserved areas.
- Maintain or restore viable populations of the species included in the MSHCP so that incidental take permits can be obtained for currently listed species and nonlisted species can be covered in case they are listed in the future.
- Sustain ecological and evolutionary processes necessary to maintain the viability of the natural communities and habitats for the species included in the MSHCP.

These three goals were used to guide the development of the MSHCP Reserve System.

A fourth objective of the MSHCP is to manage the system adaptively to be responsive to short-term and long-term environmental change.

The management activities required to achieve all four habitat conservation goals will continue in perpetuity and will be funded by earnings from an endowment after the expiration of the Permit. The MSHCP obligates Permittees to establish an endowment to fund these activities in perpetuity for acquired lands. The LDMF will fund a portion of these costs. The endowment is also funded by contributions from state and local agencies and revenue associated with landfill tipping fees and interest earnings on the endowment's year to year balance.

Covered Species and Natural Communities

The planning team developed an initial list of 52 species to consider protecting under the MSHCP. These species were identified as either endangered or threatened by the Wildlife Agencies, or at risk for becoming listed as threatened or endangered. Through the planning process this list was reduced to 27 Covered Species. Species were eliminated from the final list for reasons such as a lack of known locations in the Plan Area and insufficient data to facilitate conservation planning. **Table 3.1** lists the 27 Covered Species and identifies the reason for their inclusion in the MSHCP.

The Plan Area contains 46 natural communities. The 27 natural communities included in the MSHCP Reserve System are those needed to provide habitat for the Covered Species. **Table 3.2** lists the natural communities protected by the MSHCP Reserve System.

Table 3.1: Covered Species Under the MSHCP

Plants

Mecca aster, Xylorhiza cognata (NS)

Coachella Valley milkvetch, Astragalus lentiginosus var. coachellae (FE)

Triple-ribbed milkvetch, Astragalus tricarinatus (FE)

Orocopia sage, Salvia greatae (NS)

Little San Bernardino Mountains linanthus, Linanthus maculatus (or Gilia maculata) (NS)

Invertebrates - Insects

Coachella Valley giant sand-treader cricket, ${\it Macrobaenetes\ valgum}$

Coachella Valley Jerusalem cricket, Stenopelmatus cahuilaensis

<u>Fish</u>

Desert pupfish, Cyprinodon macularius (FE/SE)

Amphibians

Arroyo toad, Bufo californicus (FE/CSC)

Reptiles

Desert tortoise, Gopherus agassizii (FT/ST)

Flat-tailed horned lizard, Phrynosoma mcallii (CSC)

Coachella Valley fringe-toed lizard, Uma inornata (FT/SE)

Birds

Yuma clapper rail, Rallus longirostris yumanensis (FE/ST/SFP)

California black rail, Laterallus jamaicensis (ST/SFP)

Burrowing owl, Athene cunicularia (CSC)

Southwestern willow flycatcher, Empidonax traillii extimus (SE/FE)

Crissal thrasher, Toxostoma crissale (CSC)

Le Conte's thrasher, Toxostoma lecontei (CSC)

Least Bell's vireo, Vireo bellii pusillus (FE/SE)

Gray vireo, Vireo vicinior (CSC)

Yellow warbler, Dendroica petechia brewsteri (CSC)

Yellow-breasted chat, Icteria virens (CSC)

Summer tanager, Piranga rubra (NS)

<u>Mammals</u>

Southern yellow bat, Lasiurus ega or xanthinus (NS)

Coachella Valley round-tailed ground squirrel, Spermophilus tereticaudus chlorus (CSC)

Palm Springs pocket mouse, Perognathus longimembris bangsi (CSC)

Peninsular bighorn sheep, Ovis canadensis nelsoni (FE/ST/SFP)

Note: Species conservation information above current as of 2007.

Key:

FE: Federal Endangered

CSC: Species of Special Concern (a state list of species that are at risk)

FT: Federal Threatened SE: State Endangered

NOS: No Official Status (USFWS, CDFG, and the Scientific Advisory Committee that assisted in preparing the MSHCP recommend inclusion of these species because of

ST: State Threatened

SC: State Candidate

SFP: State Fully Protected

Source: Coachella Valley Association of Governments, Coachella Valley Multiple Species Habitat Conservation Plan/Natural Community Conservation Plan, Table 3-1.

the probability of their being placed on an official list.

Table 3.2: Natural Communities Included in the MSHCP

Active desert dunes

Stabilized and partially stabilized desert dunes

Active desert sand fields

Ephemeral desert sand fields

Stabilized and partially stabilized desert sand fields

Stabilized shielded desert sand fields

Mesquite hummocks

Sonoran creosote bush scrub

Sonoran mixed woody and succulent scrub

Mojave mixed woody scrub

Desert saltbush scrub

Desert sink scrub

Chamise chaparral

Redshank chaparral

Semi-desert chaparral

Interior live oak chaparral

Cismontane alkali marsh

Coastal and valley freshwater marsh

Southern arroyo willow riparian forest

Sonoran cottonwood-willow riparian forest

Mesquite bosque

Desert dry wash woodland

Desert fan palm oasis woodland

Southern sycamore-alder riparian woodland

Arrowweed scrub

Mojavean pinyon-juniper woodland

Peninsular juniper woodland and scrub

Note: Natural communities list current as of 2007.

Source: Coachella Valley Association of Governments, Coachella Valley Multiple Species Habitat Conservation Plan/Natural Community Conservation Plan, Table 3-3.

Identifying the MSHCP Reserve System

The MSHCP planning team collected information on each Covered Species' life history, habitat, ecological requirements, overall range, distribution, threats, and conservation needs. The team gathered similar information on the composition and distribution of natural communities and on existing conservation areas, topography, watersheds, ecological processes, roads, and current land uses. The team then had maps prepared of the natural communities and species' habitat distribution. These maps became the basis of for identifying lands with the highest biological resource value to include in the Reserve System.

For each Covered Species for which sufficient information was available, core habitat areas were delineated with unfragmented habitat that contained intact ecological processes large enough for self-sustaining populations of species. Areas needed to maintain essential ecological processes, core habitat, biological corridors, and linkages were also identified. The following measures of

adequacy were used to determine the habitat necessary to preserve Covered Species and the conserved natural communities and identify lands to be included in the MSHCP Reserve System.

- Size of habitat patches. For each Covered Species, the planning team assessed whether a conservation area provided core habitat. The Core Habitat concept was not applied to species that were considered to occur as metapopulations. These species are the burrowing owl, Le Conte's thrasher, Yuma clapper rail, California black rail, riparian bird species, and southern yellow bat. A conservation area was not deemed inadequate because of the lack of core habitat for these species. The concept of core habitat was not used with natural communities.
- The number of core habitat areas protected in conservation areas for each Covered Species. Where possible, the planning team sought to conserve a minimum of three core habitat areas for each Covered Species. In some cases, more than three core habitat areas for a Covered Species occurred in the conservation areas. In other instances, fewer than three core habitat areas for a Covered Species occurred in the Plan Area.
- Representative range of environmental conditions, including temperature, moisture, and elevation gradients, under which the species or natural community occurs in a viable population. For each Covered Species, the planning team assessed whether the conservation areas included other conserved habitat that provided for the conservation of the range of environmental conditions in which the species occurs in the Plan Area.
- Essential ecological processes. These could include hydrological processes (both subsurface and surface), blowsand movement, erosion, deposition, substrate development, soil formation, and biological processes such as reproduction, pollination, dispersal, and migration. The planning team assessed the conservation areas to evaluate whether the essential ecological processes necessary to sustain the Covered Species and the conserved natural communities present were included in the conservation areas.
- Biological corridors and linkages. For each Covered Species, the planning team
 assessed whether connectivity of the population in each conservation area was
 maintained with populations in other conservation areas and to populations outside
 the Plan Area to the maximum extent feasible.

Identifying Impacts to Habitat

While the planning process resulted in the identification of an MSHCP Reserve System of 723,480 acres, habitat for each Covered Species can include additional areas within the 1.1 million acres subject to the Plan. Impacts to this habitat, including direct, indirect, and

Final May 16, 2011

As set forth in the MSHCP, development may occur on a maximum of 22,420 acres of the Reserve System. In addition, development that is consistent with maintaining certain conservation objectives is also allowed within 7,800 acres designated as fluvial sand transport areas.

cumulative impacts, from land use decisions made by local governments are addressed by CEQA among other state and federal laws. A direct impact to habitat for a Covered Species results from the construction of new residential, nonresidential, and public uses on lands containing habitat value, or whenever habitat is modified to reduce its suitability for the Covered Species.

Aside from direct impacts, development on lands in the Plan Area without habitat value for any Covered Species can produce indirect impacts on Covered Species as well. New residential, nonresidential, and associated public uses on land without habitat values economically support developed uses on lands that either have or had habitat value for Covered Species. Examples include normal development patterns that allow proximate residential development to support retail development, employment development to support additional housing, and public infrastructure to support all types of private development.

These market support relationships cross from lands containing habitat for Covered Species into lands with no habitat value and vice versa. As a result, all new developed acres in the Coachella Valley have direct or indirect impacts on Covered Species.

Development of lands containing habitat and lands that do not contain habitat are part of the cumulative impacts on Covered Species. Cumulative impacts include the impact of existing development on former and current acres of natural communities. Cumulative impacts also include noise, lighting, drainage, intrusion of people into habitat areas, and the introduction of non-native plants and non-native predators such as dogs and cats.

In addition to satisfying obligations of the IA and funding a Reserve System that benefits residents of the community, the LDMF provides a means of mitigating the cumulative impact of an estimated 110,170 acres of new development in the Plan Area on Covered Species between 2011 and 2083.

4. Cost of MSHCP Activities

This chapter describes the cost of the land acquisition and M&M programs and presents the plan for completing the program during the 75-year planning horizon. The land acquisition and M&M programs occur concurrently because monitoring of Covered Species and natural communities guides habitat acquisition objectives as the MSHCP progresses. Both sets of activities help mitigate the direct, indirect and cumulative impacts of take that occurs with development.

The LDMF must address the costs associated with both land acquisition and M&M programs in order to support the full conservation effort. If no new development occurred within the Plan Area then there would be no take of Covered Species' habitat and no need for conservation of habitat lands and careful monitoring and management of potentially threatened species and natural communities. Thus, new development is solely responsible for and benefits entirely from these costs.

Allocation of the LDMF

One objective of this analysis is to demonstrate that funding is available to cover the total costs associated with acquisition of land, land preparation, and M&M activities. This analysis organizes the costs associated with habitat acquisition and land preparation, as well as non fee revenues dedicated to these activities, into a Land Acquisition Fund. Costs associated with M&M activities, as well as non fee revenues dedicated to these activities, are organized in the M&M Fund.

The Land Acquisition and M&M Funds account for the year to year activity of the habitat acquisition, monitoring and management components of conservation. In addition to these activities, the MSHCP specifies that "The Local Permittees shall establish an endowment to fund the Monitoring and Management Programs for those [conserved habitat] lands in perpetuity."

Even though funding to acquire land must be complete before the expiration of the Permit term, the Local Permittees maintain possession of conserved habitat, as well as the obligation to continue conservation in perpetuity per the MSHCP. As a result, a funding mechanism must be established to ensure that enough funding has been received to continue the M&M programs after year 75 of the planning horizon. This analysis organizes the sources and uses of these funds into an Endowment Fund.

This analysis is based on a financial model constructed to estimate annual revenues and costs for the Land Acquisition Fund, Monitoring & Management Fund and Endowment Funds. The model was used to calculate the level of the LDMF needed to fully fund the habitat acquisition and M&M programs after deducting other anticipated revenues and interest earnings on the fund balances. Implementation of the MSHCP includes other costs such as land management, habitat monitoring, and administration that are in addition to the habitat acquisition program. The LDMF

MSHCP Section E.S.6: Obligations of the Permittees, p. ES-18.

contributes to the funding of these costs; the mechanism by which this occurs is discussed in detail below.

LDMF revenue is allocated among three funds, each of which supports different aspects of the conservation program. All LDMF revenue and habitat acquisition expenditures are accounted for in the Land Acquisition Fund, the Monitoring & Management Fund or the Endowment Fund. CVCC manages the funds as part of its responsibilities to implement the MSHCP. The funds, whether functioning as one accounting fund or several subfunds, enable the CVCC to comply with a provision of the Fee Mitigation Act described in Chapter 6 that requires development impact fees to be placed in a separate fund.

Before year 45, LDMF revenue that directly supports M&M is only allocated to the M&M Fund. After year 45, portions of LDMF revenue are dedicated to both the M&M Fund and to the creation of an Endowment Fund that will support M&M after year 75. The endowment fulfills the obligation of the Local Permittees set out in the MSHCP.

Permittees would continue collecting LDMF revenue through year 75 but the CVCC would terminate the Land Acquisition Fund after 45 years.

Habitat Acquisition Program

Table 4.1 presents a summary of the land acreage that will comprise the MSHCP Reserve System described in the previous chapter. Of the 1.1 million acres in the Plan Area, 745,900 acres will be preserved as habitat. Seventy-eight percent or 561,700 acres of the Reserve System has already been set aside. Complementary Conservation and state and federal contributions to MSHCP implementation will conserve an additional 59,680 acres from November 2006 forward.

The remaining amount of 102,100 acres includes 10,800 acres of non-Permittee public and quasi-public land, and 7,800 fluvial sand transport areas where acquisition is not required. Approximately 7,500 acres is Permittee-owned land that will be conserved in perpetuity though the MSHCP.

There are now 86,580 acres remaining in that total after transactions that closed through December 31, 2010. The LDMF is the primary funding source for this habitat acquisition program.

Another key objective of the LDMF Program is the purchase of all habitat conservation lands as soon as financially feasible within 45 years. Given the current development pressure, if land acquisition is not completed within the first 45 years, important resources may become developed, or surrounded by new development to the extent that the land may become isolated and unsuitable habitat.

The following sections describe the habitat acquisition revenues and expenditures included in this analysis.

Table 4.1: MSHCP Reserve System

	Acr	es
Conservation Areas Total	745,900	
Potential Development Within Conservation Areas	22,420	
MSHCP Reserve System Total	723,480	
Existing Conservation Lands (as of June 2006) ¹	<u>561,700</u>	
Land to be Conserved (as of June 2006)		161,780
Future Complementary Conservation (as of June 2006)	28,180	
State and Federal Contribution To Plan Implementation (as of June 2006)	20,700	
Conservation of Lands Owned By Non-permittee Public or Quasi-Public Entities ²	10,800	
Conserved Land Not Responsibility of Local Permittees		59,680
Remaining Lands to Be Conserved By Local Permittees		102,100
Local Permittee Responsibility		
Conservation of Existing Local Permittee Lands ³	7,500	
Conservation of Fluvial Sand Transport Area ⁴	7,800	
Subtotal Local Permittee Responsibility		15,300
Balance to be Acquired By Local Permittees at Time of Permit Issuance		86,800
Balance to be Acquired By Local Permittees, December 2010		86,580

Note: Estimates of land in conservation areas are from different dates and have been combined into one table. Minor inconsistencies may remain.

Source: Coachella Valley Association of Governments, Coachella Valley Multiple Species Habitat Conservation Plan/Natural Community Conservation Plan, Table 4-1.

Revenues

Local Development Mitigation Fee Revenue

LDMF revenue would provide the majority of funding for the habitat acquisition program. The fee generates revenue by multiplying the per acre fee by the estimated acres of new development. The fee is assumed to increase at 3.29 percent annually. The inflation rate of 3.29 percent per year is based on the average annual change in the Consumer Price Index (CPI) for the Los Angeles-Riverside-Orange County Metropolitan Statistical Area (MSA) from 1984 to 2009.

The inflation rate of 3.29 percent is a long run average estimate of general costs in the economy, and the actual increase will be based on the provisions of Permittee fee ordinances regarding automatic updating of the fee and other jurisdiction-specific LDMF actions as implementation proceeds.

¹ Lands set aside for conservation purposes and owned by federal, state, and local agencies and non-profit organizations..

² Lands currently owned by entities such as local utilities that the MSHCP estimates will be conserved through the regulatory process as those entities seek approval to conduct various activities on their lands.

³ Lands currently ow ned by Local Permittees that they will set aside for conservation.

⁴ Lands that, through land use regulation, will be required to maintain their natural function as fluvial sand transport areas.

Once all land acquisition has been completed in year 45, the only MSHCP costs that remain are M&M and administrative costs required to continue the program through year 75 and after expiration of the Permit. The M&M activities that occur after habitat acquisition is complete will evaluate the efficacy of conservation by studying Covered Species and natural communities inhabiting conserved habitat. The findings that emerge from monitoring research may require management measures taken to preserve habitat in conserved areas to adapt to changing circumstances. The LDMF will be adjusted to generate revenues sufficient to fund these costs in years 46 through 75.

Actual fee levels may vary depending on the frequency of LDMF updates in response to changes in the rate of development and the price of land, among other variables. The MSHCP requires that a new Nexus Study be completed at least every five years.

Regional Road Project Mitigation

Measure A is a half-cent sales tax approved by Riverside County voters to fund transportation projects. From Measure A funds, \$30 million are dedicated to fully mitigate the direct, indirect, and cumulative effects of transportation projects on the Covered Species and the conserved natural communities. Of this amount \$21,819,000 will be contributed to the Land Acquisition Fund, and the remaining \$8,181,000 million will be deposited into the Endowment Fund.

Regional Infrastructure Mitigation

This revenue source is generated by two public agencies in connection with mitigation of infrastructure projects. The first agency is the Coachella Valley Water District (CVWD). CVWD is anticipated to acquire 550 acres for the MSHCP Reserve System in the Thousand Palms Conservation Area. The acquisition would mitigate habitat impacts of the Thousand Palms Flood Control Project and is estimated to cost \$10.5 million.

This acquisition is anticipated to occur in the early years of the MSHCP. The cost estimate is based on the current average market value per acre for the Thousand Palms area of \$15,700 (see discussion and table under Expenditures - Land Acquisition, below). The CVWD will also have contributed a total of \$4.0 million as payment to the CVCC for participation in the MSHCP over the lifetime of the LDMF; this contribution will be part of the program Endowment.

The second agency is the California Department of Transportation (Caltrans). Caltrans has an obligation to acquire 5,791 acres of habitat to mitigate non-interchange highway projects in the Coachella Valley. For the purposes of the Nexus Study, Caltrans is assumed to acquire 1,930 acres in plan years 8 and 10, and 1,931 acres in year 15.

Acquisition costs per acre are assumed to be the same average cost for all acquired acres in the year of acquisition. The actual phasing of the funding for this obligation by Caltrans on an annual basis is not material to the calculation of the LDMF, because the mitigation is based on a given amount of acreage to be acquired, not on a specific amount of revenue to be contributed.

Interest Earnings

The *Mitigation Fee Act* requires that interest earnings on development impact fee revenues be credited to the same fund in which the fees are deposited and expended for the same purposes. This analysis assumes a long term interest rate of 5.73 percent on fund balances, a rate

approximately equal to the 1984-2009 average interest rate for Pooled Money Investment Accounts (PMIA) reported by the California State Treasury. This fund is a proxy for the type of investment vehicle CVCC must use to preserve fund balances for the benefit of MSHCP objectives.

Expenditures

Land Acquisition

Estimates for the price of land to be acquired by Permittees vary by the location of each conservation area in the Valley. Per acre prices used in this analysis are based on the CVCC's recent experience with land acquisition, as well as an independent study that relied on current sales and listings of comparable properties (A Market Study of Land Values, Related to Several Areas of Prospective Acquisition, Associated with the Coachella Valley Multiple Species Habitat Conservation Plan, Scarcella, June 2010).

The study estimated low, mid, and high range market values per acre for each of 20 conservation areas within the Plan Area. Estimates were made of the percentage of land to be acquired at each market level in each conservation area. These costs exclude transaction costs (see below). **Table 4.2** on the following page details land acquisition amounts and undiscounted (nominal dollar) purchase costs by conservation area within the MSHCP Reserve System.

Analysis of this data uses a number of cost estimates per acre multiplied by acres acquired to estimate total costs for each year of MSHCP. Average per acre costs include related transaction costs for appraisals, escrow fees, and other costs that are estimated to be approximately five percent in addition to the land purchase price. The calculation of the average costs per acre used in this analysis, including transaction costs in 2010 dollars are shown in **Table 4.3**. Table 4.2 informs the price per acre for acres to be acquired after acres designated high priority by the CVCC. The CVCC's criteria for setting land acquisition priorities are described below.

The Nexus Study bases its assumptions for land cost on the recent land purchasing patterns and long term strategies adopted by the CVCC. In the short run, the CVCC has identified the following areas as its highest acquisition priorities:

- Thousand Palms Conservation Area
- Upper Mission Creek Conservation Area
- Coachella Valley Stormwater and Delta Conservation Area
- Willow Hole Conservation Area
- East Indio Hills Conservation Area.

Prioritization is based on how vulnerable natural habitat is in the area, the degree of threat development poses to existing habitat or species and the extent to which the proportion of developed to conserved land, or "Rough Step" has been satisfied in the area.

The areas identified above contain some of the highest priced land in the Plan Area. The CVCC has been purchasing high priority land in these areas at an average of approximately \$9,610 per acre. Table 4.2 above shows that this figure is roughly compatible with the average price per acre in high-priced areas reported by the June 2010 Market Study of Land Values.

The Nexus Study assumes that the first 22,000 acres purchased by the CVCC during the lifetime of the LDMF will be purchased in these areas, and carries this price assumption forward until the first 22,000 acres of conservation land are purchased. This analysis estimates that the CVCC will have purchased its first 22,000 of high priority land before year 30 of the planning horizon.

Table 4.2: Modified MSHCP Reserve System Local Permittees Land Acquisition Costs

No.	MSHCP Designation	Priority	Acres ¹	\$	Per Acre		Total Cost
	_						
	/ Areas						
2	Stubbe & Cottonwood Canyons	1	1,705	\$	5,250	\$	8,949,938
3	Snow Creek / Windy Point	1	1,018		1,365		1,390,116
5	Highway 111 / I-10	1	358		7,550		2,703,353
6	Whitewater Floodplain	1	2,082		5,450		11,344,175
7	Upper Mission Creek/Big Morongo Cyn	1	5,117		8,885		45,462,146
8	Willow Hole	1	2,392		9,813		23,471,500
9	Edom Hill	1	1,185		7,781		9,223,349
10	Thousand Palms	1	4,995		15,700		78,421,500
19	CV Stormwater Channel & Delta	1	2,651		9,688		25,680,303
	Total		21,503			\$	206,646,380
	Priority Areas Average Price per Acre					\$	9,610
Non-P	riority Areas_						
1	Cabazon	2	2,806	\$	1,175	\$	3,296,968
4	Whitewater Canyon	2	78		1,081		84,770
11	West Deception Canyon	2	557		1,343		747,987
12	Indio Hills / Joshua Tree NP Linkage	2	2,088		4,325		9,029,865
13	Indio Hills Palms	2	1,525		1,706		2,601,229
14	East Indio Hills	2	1,014		3,925		3,980,343
15	Joshua Tree National Park	2	12,140		419		5,083,654
16	Desert Tortoise and Linkage	2	39,283		906		35,600,119
17	Mecca Hills / Orocopia Mountains	2	20,151		644		12,972,406
18	Dos Palmas	2	10,456		603		6,299,445
20	Santa Rosa & San Jacinto Mtns	2	33,052		2,875		95,025,276
-	Total	_	123,150		.,	\$	174,722,062
	Non-Priority Average Price per Acre					<u>\$</u>	1,419

Note: Transaction costs for appraisals, escrow fees, and related costs not included.

Source: Scarcella, A Market Study of Land Values, Related to Several Areas of Prospective Acquisition, Associated with the Coachella Valley Multiple Species Habitat Conservation Plan, June 2010.

¹ Acres reflect acres actually available for conservation purchase by the CVCC.

Table 4.3: Land Acquisition and Transaction Costs

I able tio. Falla Acquisition alla illameachen coole	5	- -)			3			
		Actual	nal		Land	Land Acquisition Period	tion F	eriod	Total
	7	2009	2	2010	2011-	2011-20381	203	2039-2053	
Average Cost Per Acre (\$2010)	\$	9,159	↔	10,071	€>	9,610 \$	↔	1,419	
Transaction Costs ²		2.00%		2.00%		2.00%		2.00%	
Total Land Cost per Acre	₩.	9,617 \$	↔	10,574 \$	⇔	10,091 \$	↔	1,490	
Acres Purchased		150		1,100		21,175		65,673	88,098

¹ Timeframe in which CVCC purchases its first 22,000 priority acres in high priced areas.

Sources: Coachella Valley Association of Governments; Willdan Financial Services.

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 $^{^{2}}$ Includes costs for appraisals, escrow fees, and related transaction activities.

After the CVCC purchases 22,000 acres of high priority land, the CVCC may purchase and conserve parcels in less developed and less costly areas. This analysis assumes that the price of the remaining acreage will equal the average cost of low priority acreage shown in Table 4.2.

The Nexus Study assumes that land acquisition costs will increase at 3.29 percent annually during the 50-year acquisition period, resulting in the larger cost estimate in nominal dollars shown in Appendix Table A-2, which summarizes the Land Acquisition Fund. This real estate inflation factor of 3.29 percent per year is based on a more general proxy for changes in prices: the average annual change in the Consumer Price Index (CPI) for the Los Angeles-Riverside-Orange County Metropolitan Statistical Area (MSA) from 1984 to 2009. The period chosen extends beyond the prior decade in order to capture a data series for a long term average.

Table 4.3 shows the land cost per acre assumptions used in this study for each stage of land acquisition in the planning horizon. This analysis adds a 5 percent premium to the price of land in an effort to account for escrow fees and other expenses that arise in the process of purchasing land. Land costs per acre for Fiscal Years 2009 and 2010 are actual values based on CVCC records. The CVCC expects to update this analysis periodically based on new land appraisal studies.

This analysis includes an estimate of the amount of land acquired on an annual basis over the 45-year acquisition period. The analysis assumes that as much land as possible is acquired as early as possible subject to revenue constraints. To supplement LDMF revenues, regional road project and infrastructure mitigation payments provide revenue through year 18 of the MSHCP.

These phasing assumptions meet the "Rough Proportionality" requirements of the MSHCP regarding the amount of habitat land conserved compared to the amount of development that occurs. Actual land acquisition costs may turn out to be more or less than these estimates. Land price inflation may also vary from the rate assumed here.

Costs would be lower to the extent that land is protected through methods other than fee simple purchase, such as conservation easements. CVAG will conduct land market appraisals and adjust the rate of increase in the LDMF discussed in the revenue section above to mirror actual cost trends and ensure that total revenues do not exceed total costs within the Land Acquisition Fund.

Land Preparation

Land preparation consists of one-time capital costs to render the land usable for intended conservation purposes. These costs primarily include the removal of an invasive species such as the Saharan mustard, and fencing. Other costs include gates, signage, and trash removal. Ongoing maintenance costs are not included. The cost of land preparation is based on a baseline 2010 assumption of \$188,000 per year, and is increased by 3.29 percent annually for inflation ¹². Costs terminate at the end of the 50-year acquisition period.

¹² MSHCP Section 5.3, Table 5-3c, p. 5-24.

Administration

The CVCC will contract with CVAG for staff services for the first five years of MSHCP implementation and may continue to do so thereafter if desired. Total administration costs for all MSHCP implementation activities are estimated to be \$600,640 annually, on average. This amount would fund management, accounting, information technology, and related overhead costs. These amounts are based on actual expenditures made by the CVCC in Fiscal Years 2009 and 2010.

Administration costs also include \$127,000 annually, on average, for a contract Land Acquisition Manager funded solely by the Land Acquisition Fund. Fiscal Years 2009 and 2010 reflect costs adjusted for current economic pressures. This analysis assumes that the Land Acquisition Manager will be restored to a full time position as the economy recovers. All administration costs are increased 3.29 percent annually for inflation. Administration costs associated with the Land Acquisition Fund terminate at the end of the 45-year acquisition period.

Table 4.4 summarizes total revenues, expenditures, and other assumptions for the Habitat Acquisition Program, in nominal dollars. This analysis assumes that Local Permittees will begin to impose the updated LDMF on new development during most of fiscal year 2011-2012 (FY2012).

The summary below shows the 2010 value of revenues, expenditures, and fund balance, made or accumulated through 2083. The Land Acquisition Fund is assumed to terminate 43 years later in plan year 45 or 2053. See **Tables A-1 through A-6** in the Appendix for the cash flow detail.

Table 4.4: Summary of Land Acquisition Revenues and Expenditures

Expenditures		
	F	Y2012-2083
Revenues		
Local Development Mitigation Fee Revenue ¹	\$	276,919,000
CVAG - Measure A		4,626,000
Caltrans		31,398,000
CVWD		8,919,000
Contributions		-
Grants		-
Other		-
Interest Eamings		20,538,000
Total Revenues	\$	342,400,000
Expenditures		
Land Acquisition	\$	314,726,000
Land Preparation		8,156,000
<u>Administration</u>		
Land Acquisition Manager (contract)		5,316,000
Administration (program-wide share)		9,585,000
Total Expenditures	\$	337,783,000
Net Cashflow	\$	4,617,000
Ending Fund Balance	\$	-

Note: In constant dollars. Table represents present value of total program revenues collected and expenditures made by year 75. Values have been rounded to nearest thousand

Sources; Coachella Valley Association of Governments; Willdan Financial Services.

Monitoring and Management Program

The MSHCP identifies an M&M program as a key element of the conservation effort. According to the MSHCP, the M&M program is designed to

- (1) Demonstrate that the Plan is achieving its Conservation Goals and Objectives for the Covered Species and conserved natural communities;
- (2) Specify the primary components of Reserve Lands management; and

¹ Denotes the portion of total LDMF revenue assigned to land acquisition, land preparation and associated activities.

(3) Identify how Adaptive Management strategies will be used to address changes in Habitat condition, natural communities and/or species health (distribution and numbers)

The costs and revenues associated with this part of the conservation process are summarized in the M&M Fund and described in this chapter.

A portion of the LDMF is allocated to the M&M Fund. The M&M Fund also includes non fee revenues dedicated to M&M activities and program costs for M&M programs specified in the MSHCP.

The most prominent non-fee revenue source is the Conservation Trust Fund, whose landfill tipping fee allocations amount to \$36.5 million over the life of the Permit. The CVCC plans to fund all M&M expenses for activities affecting lands other than Permittee conserved lands using revenue from the Conservation Trust Fund. In addition, if the agency has carryover M&M expenses from land acquired before revisions to the LDMF, costs which can be termed existing deficiencies, revenue from the Conservation Trust Fund will be more than sufficient.

This policy will ensure that new development, through payment of the LDMF, does not fund any M&M activities required by the MSHCP if those activities relate to existing deficiencies in M&M programs or lands not acquired by the Permittees.

These revenues and costs are summarized in Table 4.7 as a program level summary of monitoring and management costs. Detailed components of M&M program costs are detailed in Tables A-4 and A-5.

The following sections describe the revenues and expenditures associated with the monitoring and management component of the LDMF.

Revenues

Local Development Mitigation Fee Revenue

The LDMF contributes nearly \$100.2 million to the M&M program throughout the 75 year Permit term. Year to year, the LDMF is designed to cover the M&M expenses remaining to be funded once Conservation Trust Fund (see below) revenues are exhausted in a given year. After land acquisition is complete, the LDMF is re-set to collect sufficient revenue to fund annual M&M expenses and contribute to the Endowment for M&M activities. This role of the LDMF is discussed in greater detail below, in the *Funding M&M Costs in Perpetuity* section of this analysis.

Conservation Trust Fund

The Conservation Trust Fund consists exclusively of Landfill Tipping Fees paid by the producers of waste generated in the Coachella Valley and deposited in County landfills. The CVCC provided the actual amounts of revenue received in this category for FY 2009 and 2010. In the future, Landfill Tipping Fee revenue is projected to rise at the rate of inflation starting in year 3 and continuing through year 75.

¹³MSHCP E.S.8: MSHCP Reserve Lands Management and Monitoring, p. ES-31.

Expenditures

Monitoring Program

The Monitoring Program refers to the biological habitat monitoring and assessment program associated with the MSHCP. The MSHCP states that the role of the Monitoring Program is to

Provide scientifically reliable data on:

- (1) The status and spatial and temporal dynamics (amplitude and magnitude) of key ecosystem components for the Covered plant and animal Species and conserved natural communities, and
- (2) The threats to these species and conserved natural communities. The program will also identify, develop, [and] evaluate the extent to which management practices and policies are sustaining the plan and animal species and conserved natural communities covered under the Plan.

The MSHCP states that the Monitoring Program will be implemented in phases starting with the collection of baseline data (The Baseline Phase) and extending to a long term species and natural communities monitoring program.

Fulfilling these objectives requires employment of several biological scientists, GIS analysts, field researchers and the equipment associated with each employee. **Table 4.5** breaks out the baseline cost assumptions for the Monitoring Program. All personnel and programs below represent expertise in fields relevant to the Covered Species or natural communities identified in the MSHCP or expertise in mapping, field equipment or surveillance. Estimates for the cost of each personnel type, program and piece of equipment were provided by the CVCC ¹⁵.

The sum of these expenditures for each year amounts to the total Monitoring Program expenditure identified in the M&M Fund (see Table A-6). Note that some of the costs identified in Table 4.5, such as the graduate research and sheep monitoring program, do not persist throughout the 75 year planning horizon.

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MSHCP Section E.S.8: MSHCP Reserve Lands Management and Monitoring: Monitoring Program, p. ES-31.

MSHCP Section 8.8.2: Personnel for Monitoring Program, p. 8-106

Table 4.5: Monitoring Program Baseline Costs

FY2011								
FY Ending June 30		enditures						
Ending durie ou	-^	, <u> </u>						
Personnel - All Species except sheep								
Monitoring Program Admin (1)	\$	-						
Vertebrate Ecol - Field Supervisor (1)		96,100						
Entomologist (1 @ 0.5)		42,700						
Associate Biologist (1)		85,300						
Biologist - Mammalogy (1@0.5)		37,400						
Biologist - Ornithology (1-2@0.5)		74,700						
Seasonal Aide - Ornithology (1@0.5)		16,000						
Seasonal Aide (4-5@0.75)		120,000						
Personnel - Sheep and Trails								
Seasonal Aide (3@0.75)	\$	72,000						
Graduate Researcher		24,000						
Sheep - Monitoring								
Personnel	\$	53,300						
Personnel - Data Analysis								
GIS Analyst (1 @ 0.5)	\$	42,700						
GIS Technician (1 @ 0.5)		37,400						
Personnel Subtotal	\$	701,600						
One-time Cost Items								
Revise/Update Natural Communities Map	\$	-						
Equipment and Supplies								
Satellite/Aerial Imagery	\$	3,100						
Sampling Gear		16,000						
Transect Set-up & Maintenance		5,400						
Radio-tracking Equipment		600						
Other Supplies		1,000						
Weather Stations (3)		200						
Vehicle Costs		19,600						
Sheep Monitoring		69,300						
Sheep Monitoring/Research		51,200						
Equipment Subtotal	\$	166,400						
Subtotal - Estimated Cost	\$	868,000						
10% Contingency	\$	86,800						
Monitoring Program Cost	\$	955,000						

Note: In constant dollars. Costs change throughout the planning horizon as staffing levels change. See Table A-4. 2011 costs have been adjusted from the 2003 base using an annual inflation assumption of 3.29%.

Source: Coachella Valley Mountain Conservancy; Willdan Financial Services.

Management Program

The MSHCP states that:

The goal of the Management Program, including Adaptive Management actions, is to provide for the Conservation of Covered Species as anticipated by the Plan. To accomplish this goal requires on-going management activities on reserve lands such as fencing and fence maintenance, public use management, enforcement of appropriate laws and regulations, and the implementation of other actions identified in the reserve management plans.

To perform the functions outlined above, the management Program requires management and enforcement personnel, as well as various types of equipment needed to protect and maintain habitat in and out of the field. The Management Program consists of land management and supervision personnel and field staff. Expenditures in this category include funding for land management personnel as well as habitat maintenance equipment and supplies. This includes a Ranger-warden for conservation lands, associated field staff and office personnel and equipment for the program headquarters 17. Baseline expenditures for the Management Program are outlined in Table 4.6.

¹⁶MSHCP Section E.S.8: MSHCP Reserve Lands Management and Monitoring: Management Program, p. ES-33

MSHCP Section 8.8.1 Personnel for Management Program, p. 8-96

Table 4.6: Management Program Baseline Costs

Table 4.0. Management Program Basemie Costs							
	FY2011	Expenditures					
Personnel ¹							
Reserve Land Manager	\$	96,300					
Asst. Reserve Manager (4) ²	•	80,200					
Ranger-Warden (2)		187,800					
Field Crew Labor (contract)		42,200					
Admin. Assistant (0.25-0.5) ²		14,900					
Personnel Subtotal	\$	421,400					
Equipment and Supplies							
Site Protection & Maintenance Habitat Maintenance and Land	\$	26,600					
Preparation		4,100					
Field Equipment and Supplies		14,400					
Office Equipment		41,200					
Public Education Services		5,900					
Equipment Subtotal	\$	92,200					
Subtotal - Estimated Cost	\$	513,600					
10% Contingency	\$	51,360					
Administrative Overhead (10%)	\$	51,360					
Total - Estimated Cost	\$	616,000					

Notes: In constant dollars.

Source: Coachella Valley Mountain Conservancy; Willdan Financial Services.

Adaptive Management

The Management Program adopts an Adaptive Management strategy. The Adaptive Management Program will address management uncertainty, including the following issues:

- (1) Management action as responses to findings of the Monitoring Program in regards to unanticipated changes, in the needs of individual species, groups of species, or conserved natural communities, including fluvial and aeolian transport and sorting of sand;
- (2) Reserve and species management techniques and actions;
- (3) Enhancement of the conservation values of lands in the Conservation Areas; and

¹ This salary includes benefits, w orker' compensation.

² These positions are phased in as the number of acres acquired increases.

(4) Management actions to address Changed Circumstances, linking the Monitoring Program with Adaptive Management actions to inform reserve managers of the status of Covered Species, conserved natural communities, and essential ecological processes in a manner that provides data to allow informed management actions and decisions. Existing information about both the impact of threats and the management strategies for addressing those threats will be used extensively in designing the initial management program for each Conservation Area.

Management Contingency

The MSHCP requires the Local Permittees to fund a \$5,000,000 management contingency as part of the M&M program in order to "provide ability to address immediate and/or large scale M&M Program needs on Permittee lands". The MSHCP specifies that this contingency fund should be established within the first ten years of the planning horizon. The guideline for use of these funds is as follows:

This fund shall be used when monitoring results and/or other information indicate that corrective actions to address these management priorities are needed to achieve the goals and objectives for Covered Species.

Accordingly, the Monitoring & Management Fund in this analysis includes an annual \$500,000 contingency each year for the first ten years of the planning horizon. This provision amounts to a \$5,000,000 contingency by the end of the planning horizon.

Administration

Program wide administration costs for the LDMF include several types of administrative overhead for MSHCP-related programs. Administrative expenses associated with the CVCC's implementation of the MSHCP consist of legal, accounting, and other departmental and agencywide administrative support; and LDMF administrative costs include revenue collection, revenue and cost accounting, mandated public reporting, and fee justification analyses.

Endowment and LDMF Support for the Monitoring & Management Fund The foregoing revenue section shows that the Conservation Trust Fund is the only source of nonfee revenue dedicated specifically to M&M programs. Even in the near term, the Conservation Trust Fund does not accumulate enough revenue in order to fund the year to year operations of the M&M Fund on its own. To avoid year to year shortfalls in the M&M programs, this analysis dedicates sufficient LDMF and Endowment revenues to fund Monitoring and management activities in the following ways:

 As a first priority, this analysis uses Endowment Fund revenues to support M&M activities in years 1 to 45 of the planning horizon. During years 1 through 45, the

¹⁸MSHCP Section E.S.8: MSHCP Reserve Lands Management and Monitoring: Adaptive Management, p. ES-35.

MSHCP Section 8.2.4.2: Management Contingency Fund, p.8-26.

MSHCP Section 8.2.4.2: Management Contingency Fund, p.8-26.

Endowment Fund transfers one-half of its fund balance to the M&M Fund every year in which fund balance is available.

- As a second priority, this analysis allocates a variable portion of the LDMF to the M&M Fund throughout the lifetime of the LDMF. The amount of LDMF revenue that the M&M Fund is to receive is calculated to equal the shortfall that would otherwise occur in the management, monitoring, administration and contingency expenses detailed above net of endowment revenues transferred in a given year. This ensures that the portion of LDMF revenue allocated to M&M activities can never exceed the cost of programs detailed in Table 4.7 and prevents over-collection of the fee.
- As a third priority, the LDMF gradually contributes revenue toward a full endowment that can sustain of M&M costs in perpetuity. The method for this step is discussed in detail below.

Funding M&M Costs in Perpetuity

This analysis recognizes that, because the MSHCP specifies that the Local Permittees are responsible for funding M&M activities in perpetuity, M&M costs will occur after the expiration of the Permit. Since existing sources of revenue for habitat acquisition, including the LDMF, expire with the Permit, sufficient revenues must be collected in years 1 through 75 to fund M&M activities after the expiration of the Permit term.

The total amount of revenue required to yield sufficient interest was calculated using a long term averaged public funds yield assumption of 5.73 percent per year, and total M&M expenses in year 75 of approximately \$2 million. The rate of 5.73 percent is approximately equal to the 1984-2009 average interest rate for Pooled Money Investment Accounts (PMIA) reported by the California State Treasury. The size of the endowment required to yield sufficient revenues for this purpose is approximately \$36.5 million.

After land acquisition is complete in year 45, the LDMF is reset in order to contribute enough revenue every year in years 46-75 to reach the target revenue above. This revenue is the LDMF allocated to the Endowment Fund and fulfills the Permittees' obligation to establish an Endowment Fund to support M&M activities in perpetuity per the MSHCP. The total amount contributed from the LDMF over the planning horizon is \$23.9 million; this amount is equivalent to an annual contribution of approximately \$800,000 each year over 30 years. The remainder of contributions to endowment is comprised of interest earnings.

Table 4.7 summarizes the revenues and expenditures associated with the M&M Fund in constant dollars. Table 4.7 is based on an assumed annual inflation rate of 3.29 percent, and shows the discounted sum of revenues and expenditures across the 75-year period. Table 4.7 also shows the LDMF contribution to the endowment. Since these are not deposited into the M&M Fund until after the end of the planning horizon, this amount is shown separately from the balanced revenues and expenditures.

Table 4.7: Summary of Monitoring and Management Program Revenues and Expenditures

Trogram Nevenues and Experiantales	F	Y2012-2083
Revenues		
Landfill Tipping Fees Conservation Trust Fund	\$	36,500,000
Eagle Mountain Open Space Trust	Ψ	30,300,000
Other Revenues		_
Transfer From Endowment		17,911,000
Local Development Mitigation Fee Revenue ¹		100,218,000
Interest Earnings		7,000
Total Revenues	\$	154,636,000
Expenditures		
Monitoring Program	\$	63,394,000
Management Program		54,408,000
Adaptive Management		4,777,000
Management Contingency		4,341,000
Administration (program-wide share)		27,841,000
Total Expenditures	\$	154,761,000
Net Cash Flow	\$	(125,000)
Ending Fund Balance	\$	-
LDMF Contribution to Endowment ²	\$	23,860,000

Note: In constant dollars. Table represents present value of total program revenues collected and expenditures made by year 75. Values have been rounded to nearest thousand.

Sources: Coachella Valley Association of Governments; Willdan Financial Services.

Table 4.8 shows the share of total revenues represented by each individual revenue source detailed in Tables 4.4 and 4.7. The majority of funding for all activities in the MSHCP comes from the LDMF.

¹ Denotes the portion of total LDMF revenue assigned to Management and Monitoring activities.

² This is the total value of transfers made from the LDMF to the Endow ment Fund to ensure that the Endow ment Fund will have sufficient balance to fund the Monitoring and Management expenditures listed above after Year 75.

Table 4.8: Summary of Program-Wide Future MSHCP Revenues

	Land	Share of	М	onitoring and	Share of
FY2012-2083	 Acquisition	Revenues	N	l lanagement	Revenues
Revenues					
Landfill Tipping Fees					
Conservation Trust Fund	\$ -	0.0%	\$	36,500,000	23.6%
Eagle Mountain Open Space Trust	-	0.0%		-	0.0%
Other Revenues	-	0.0%		-	0.0%
Transfer From Endowment	-	0.0%		17,911,000	11.6%
Local Development Mitigation Fee Revenue	276,919,000	80.9%		100,218,000	64.8%
CVAG - Measure A	4,626,000	9.2%		-	0.0%
Caltrans	31,398,000	1.4%		-	0.0%
CVWD	8,919,000	2.6%		-	0.0%
Contributions	-	0.0%		-	0.0%
Grants	-	0.0%		-	0.0%
Interest Earnings	 20,538,000	6.0%	_	7,000	0.0%
Total Revenues	\$ 342,400,000	100.0%	\$	154,636,000	100.0%

Note: In constant dollars. Table represents present value of total program revenues collected through year 75.

Sources: Coachella Valley Association of Governments; Willdan Financial Services.

Table 4.9 uses the share of available revenues represented by the LDMF to estimate how much of each MSHCP expenditure is funded by the LDMF.

Table 4.9: Summary of Program-Wide LDMF Allocation, FY2012-2083

			Po	rtion Funded
Expenditure Category		Expenditures		by LDMF
Land Anna della				
Land Acquisition	φ	044 700 000	Α.	054 507 000
Land Acquisition	\$	314,726,000	\$	254,537,000
Land Preparation		8,156,000		6,596,000
Administration		5.040.000		4 000 000
Land Acquisition Manager (contract)		5,316,000		4,299,000
Administration (program-wide share)		9,585,000	_	7,752,000
Total Expenditures	\$	337,783,000	\$	273,184,000
Approximate LDMF Share ¹				80.9%
Monitoring Program				
Monitoring Program	\$	63,394,000	\$	41,085,000
Administration (program-wide share)		13,906,022		9,012,000
Total Expenditures	\$	77,300,022	\$	50,097,000
Management Program				
Management Program		54,408,000		35,261,000
Adaptive Management		4,777,000		3,096,000
Management Contingency		4,341,000		2,813,000
Administration (program-wide share)		13,934,978		9,031,000
Total Expenditures	\$	77,460,978	\$	50,201,000
Approximate LDMF Share ¹				64.8%
Grand Total	\$	492,544,000	\$	373,482,001
Average Share Funded by LDMF				75.8%

Note: In constant dollars. Table represents present value of total program expenditures through Plan Year 75.

Represents a 72 year averaging of fee contributions to major program categories and not a strict accounting allocation from a particular funding source.

Sources: Coachella Valley Association of Governments; Willdan Financial Services.

Cost Allocation and Fee Schedule

This chapter describes the fee schedule per acre of development during and after the period of habitat acquisition in years 1 through 45.

Acreage Subject to the Fee

The MSHCP applies to development occurring anywhere in the Plan Area, with limited exceptions. This section defines which land is exempt from the fee, and then explains the direct, indirect, and cumulative impacts to Covered Species from land development in the Plan Area.

Exemptions

Certain development projects that were already in progress at the time the Permit was issued will be exempted from the LDMF. Projects are exempt from paying the fee only if the project meets each of the following three conditions:

- (1) Completion of required infrastructure improvements including, but not limited to, underground utilities, exterior project area walls, streets and curbs and were issued at least one building permit for a discrete primary structure, such as a single family home, prior to October 1, 2008 (date of MSHCP Permit Approval).
- (2) Continuous construction activity since October 1, 2008 as demonstrated by issuance of a building permit for a discrete primary structure and/or a certificate of occupancy permit for a discrete primary structure in each six month period between October 1, 2008 and April 1, 2011.
- (3) City registration of the Project and proposed lots to be exempted, in accordance with CVCC procedures.

Approximately 1,300 residential lots, or an estimated 260 acres of development, are expected to receive exemptions from the LDMF. This exempt development is expected to occur between FY2012 and FY2016.

In addition, some projects that made a separate payment to mitigate impacts on endangered species habitat will receive a refund of a portion of their LDMF payment. The amount refunded is assumed to have LDMF revenue impacts equivalent to a full exemption for approximately 100 acres of development. The refunds are expected to be granted between FY2012 and FY2021. Table 5.1 summarizes the assumptions for the refunded fees and exemptions that will be granted over the next ten years.

Table 5.1: LDMF Exemptions and Refunds

Exemptions for In-Progress Lots	
Exempt Lots	1,300
Average Lot Size (acres) ¹	0.224
Exempt Acreage	291
Buildout of Exempt Lots (years) ²	5
Acreage of Exemptions per Year	58
Fees Refunded for Alternative Mitigation Payments	400
Equivalent Exempt Acreage ³	100
Buildout of Development Receiving Refunds (years)4	10
Acreage of Exemptions per Year	10

Notes:

Source: Coachella Valley Association of Governments.

Direct, Indirect, and Cumulative Impacts

The cost of the habitat acquisition program is allocated to new development on vacant or partially vacant land within the Plan Area (see Chapter 2). The amount of new development anticipated during the Permit's life is first adjusted to exclude development that was already in progress on the effective date of the MSHCP. The above section on exemptions provides the criteria that define whether a project was already in progress on the MSHCP's effective date. No other exemptions apply.

All vacant or partially vacant land that is subject to the fee, when developed, has direct, indirect, or cumulative effects on Covered Species. Normal development patterns allow residential development to support retail development, employment development to support additional housing, and public infrastructure to support all types of private development. These types of relationships between land uses links or connects development on lands with zero habitat value with development on lands having significant habitat value.

As a result, any vacant or partially vacant land subject to the fee, once developed, has a direct or indirect impact on Covered Species. Combined with the impacts of existing development, new development also has cumulative impacts on Covered Species.

¹ The average lot size matches the historical lot size for residential uses between 0 and 8 units per acre. Actual exemptions may differ from this range of densities.

A low er density is chosen to conservatively estimate reductions in fee revenue.

² Assumes exempt lots will be developed at an even rate per year between FY2012 and FY2016.

³ Acreage of exemptions that would have an equivalent revenue impact to expected fee refunds for alternative mitigation payments.

⁴ Assumes area subject to a refund will be developed at an even rate between FY2012 and FY2021.

Table 5.2 lists the Covered Species and the natural communities that may be found on vacant or partially vacant land in urban areas on the valley floor. When habitat conversion takes place anywhere there is an overall loss to habitat quantity and the quality of the remaining occupied or potential habitat is degraded because these areas may become even more isolated and impede species movement. Thus, all development has a direct, indirect and/or cumulative impact on the loss of habitat for the Covered Species.

Covered Species	Natural Communities
Invertebrates - Insects	Active desert dunes
Coachella Valley giant sand-treader cricket, Macrobaenetes valgum	Active desert sand fields
Coachella Valley Jerusalem cricket, Stenopelmatus cahuilaensis	Ephemeral desert sand fields
Reptiles	Stabilized and partially stabilized desert sand fields
Flat-tailed homed lizard, Phrynosoma mcallii	Stabilized shielded desert sand fields
Coachella Valley fringe-toed lizard, Uma inornata	Mesquite hummocks
<u>Birds</u>	Sonoran creosote bush scrub
Burrowing owl, Athene cunicularia	Sonoran mixed woody and succulent scrub
Crissal thrasher, Toxostoma crissale	Desert saltbush scrub
Le Conte's thrasher, Toxostoma lecontei	
<u>Mammals</u>	
Coachella Valley round-tailed ground squirrel, Spermophilus tereticaudus de	chlorus
Palm Springs pocket mouse, Perognathus longimembris bangsi	

Source: Coachella Valley Mountain Conservancy.

Fee Schedule

The LDMF is based on the net revenue requirements for the land acquisition, administration and monitoring and management activities of the MSHCP. As discussed above in Chapter 4 (Expenditures - Land Acquisition) for years 1 through 45, revenue requirements are based on Land Acquisition Fund expenditures net of revenue from regional road project mitigation, regional infrastructure mitigation and interest earnings, as well as monitoring and management program requirements net of Conservation Trust revenues and non fee Endowment transfers. For years 46 through 75 revenue requirements are based on the year to year funding requirements of M&M activities and the ultimate cost of the MSHCP's monitoring and management activities after year 75.

New development will pay the LDMF over the remainder of the 75 year life of the Permit, representing 109,779 developed acres. Each newly developed acre has a similar proportionate impact by causing direct, indirect, and cumulative impacts on species and existing or potential habitat and natural communities. New development also causes a need for and benefits from the installation of public infrastructure, which also impacts habitat.

Fee Without Desert Hot Springs in Plan

Table 5.3 presents the fee per developed acre for the land acquisition program before and after land acquisition is complete. The amount per acre of \$5,600 in 2011-2053 is based on the total revenues required for land acquisition, administration and monitoring and management in those years. Increased at 3.29 percent annually, this is the net revenue needed to fund land acquisition costs through year 45.

Table 5.3: Fee per Acre

Total Acres Developed ²	 2011-2053	2054-2083			
Fee per Acre ¹ Total Acres Developed ²	\$ 5,600 61,603	\$	1,418 48,300		
Local Development Mitigation Fee Revenue	\$ 344,976,800	\$	68,489,400		

Note: Local Development Mitigation Fee revenue rounded to thousands.

Sources: Tables A-1 through A-6; Willdan Financial Services.

In year 46, the fee is adjusted to match the cost of remaining program activities. The LDMF is calculated to cover present M&M costs, as well as contribute to the accumulation of an endowment to allow for perpetual funding of these activities using earned interest. Since the bulk of expenses in the MSHCP are related to land acquisition, the fee falls 75 percent in year 46.

As a result, the MSHCP can fund the mitigation of these impacts with a fee imposed per developed acre. The per acre cost from Table 5.3 provides the basis for the fee schedule. The total fee for a specific project is based on its size as measured in acres. This approach ensures a reasonable relationship between the fee for a specific development project and the impact of that project on the need for habitat protection. Each acre of development has the same impact, and the level of the fee is uniform for all residential and nonresidential uses.

The fee schedule uses the per acre cost shown in Table 5.3 to apply to all nonresidential development projects. Industrial uses include mining and energy projects.

For residential development projects, the fee schedule converts the per acre cost to a cost per dwelling unit based on the density of the project (dwelling units per acre). The mitigation fee is based on average lot size for the three residential categories (0 to 8 units per acre, 8.1 to 14 units per acre, and 14 units and over per acre). To simplify administration of the Coachella Valley LDMF in conjunction with the Western Riverside County DMF, the same density categories and

¹ The fee for years 2054-2083 reported in this table is an average fee for this period. Since land acquisition is complete by 2053, the fee for years 2054-2083 is adjusted so that the fee amount is just high enough to cover remaining program costs and no more.

² Excludes approximately 360 acres of development that was begun prior to MSHCP Permit approval which will be exempt from the Local Development Mitigation Fee.

average lot size assumptions are used for this fee schedule (see *Mitigation Fee Nexus Report for the Western Riverside County Multiple Species Habitat Conservation Plan*).

Table 5.4 presents the Local Development Mitigation Fee schedule for the MSHCP in 2011 dollars. The table includes the average lot size assumption for each of the residential land use categories. The LDMF would only apply to new development on vacant or partially vacant land. The fee would not apply to development projects such as building additions or renovations that do not enlarge the footprint of development.

Table 5.4: Fee Schedule

	Cost Per Average Acre Lot Size						
Residential 0 - 8 Units Per Acre 8.1 - 14 Units Per Acre 14.1+ Units Per Acre	\$	5,600 5,600 5,600	0.224 0.093 0.041	\$	1,254 521 230		
<u>Nonresidential</u> Commercial Industrial	\$	5,600 5,600	NA NA	\$	5,600 5,600		

Per dwelling unit for residential and per acre for nonresidential land uses.

Source: Table 5.3; Willdan Financial Services

Revenue requirements for the LDMF may vary substantially depending on economic factors discussed in Chapter 4 that affect this analysis. These factors include, for example, land acquisition price inflation, interest rates, and the rate of new development. The proposed fee schedule represents a reasonable approach for allocating mitigation costs as evenly as practicable across new developed acreage. The analysis is constrained by:

- (1) The policy objectives to fund land acquisition as soon as feasible within 45 years; and
- (2) The limited financing options available. Given these considerations, the fee schedule presented here represents a reasonable approach to the fair allocation of costs across all new development.

Fee with Desert Hot Springs in Plan

Table 5.5 shows the cost per acre calculated for development assumptions that include the City of Desert Hot Springs. Development assumptions underlying this calculation are presented in Chapter 2 of this analysis.

Table 5.5: Fee per Acre, with Desert Hot Springs

	2011-2053 2054-2083			
Fee per Acre ¹ Total Acres Developed ²	\$	5,150 66,983	\$	1,304 52,500
Local Development Mitigation Fee Revenue	\$ 3	44,962,450	\$	68,460,000

Note: Local Development Mitigation Fee revenue rounded to thousands. This fee is based on an assumption that the City of Desert Hot Springs represents, on average, 8% of development in the Coachella Valley.

Sources: Tables A-1 through A-6; Willdan Financial Services.

Table 5.6 summarizes the fee schedule for an LDMF fee that includes development in the City of Desert Hot Springs.

Table 5.6: Fee Schedule, with Desert Hot Springs Development

	Cost Per Average Acre Lot Size						
Residential 0 - 8 Units Per Acre 8.1 - 14 Units Per Acre 14.1+ Units Per Acre	\$	5,150 5,150 5,150	0.224 0.093 0.041	\$	1,154 479 211		
<u>Nonresidential</u> Commercial Industrial	\$	5,150 5,150	NA NA	\$	5,150 5,150		

Per dwelling unit for residential and per acre for nonresidential land uses.

Source: Table 5.5; Willdan Financial Services

Evaluation of Fee Uses in "Without Desert Hot Springs" Scenario

Table 5.7 shows the uses of LDMF revenue, assuming a fee calculated without Desert Hot Springs, for the first five years of the program. From 2011 to 2015, approximately 65 percent of LDMF revenue is devoted to habitat acquisition, with the remainder being used to fund monitoring and management activities.

¹ The fee for years 2054-2083 reported in this table is an average fee for this period. Since land acquisition is complete by 2053, the fee for years 2054-2083 is adjusted so that the fee amount is just high enough to cover remaining program costs and no more.

² Excludes approximately 360 acres of development that w as begun prior to MSHCP permit approval w hich w ill be exempt from the Local Development Mitigation Fee.

Table 5.7: LDMF Allocation, 2009-2015

FY Ending June 30		2009	-	2010	2011	2012	2013		2014		2015
Plan Year	-	1		2	 3	 4	5		6		7
Mitigation Fee Revenue											
New Developed Acres		40		117	125	368	552		644		828
Fee Exempt Acres		-		-	-	68	68		68		68
Acres Subject to Fee		40	_	117	125	 300	 484	_	576		760
Mitigation Fee	\$	5,730	\$	5,730	\$ 5,730	\$ 5,600	\$ 5,784	\$	5,975	\$	6, 171
Local Development											
Mitigation Fee Revenue	\$	230,810	\$	673,242	\$ 714,000	\$ 1,679,000	\$ 2,798,000	\$	3,440,000	\$ 4	,689,000
Allocation by Fund											
Land Acquisition	\$	230,810	\$	673,242	\$ 714,000	\$ 242,000	\$ 1,669,000	\$	2,509,000	\$ 3	,268,000
Monitoring & Management		_		-	-	1,437,000	1,129,000		931,000	1	,421,000
Total Expenditures	\$	230,810	\$	673,242	\$ 714,000	\$ 1,679,000	\$ 2,798,000	\$	3,440,000	\$ 4	,689,000
Share by Fund											
Land Acquisition		100%		100%	100%	14%	60%		73%		70%
Monitoring and Management		0%		0%	0%	86%	40%		27%		30%

Sources: Coachella Valley Association of Governments; Willdan Financial Services.

6. Mitigation Fee Act Findings

Development impact fees are one-time fees, typically paid when a building or grading permit is issued, imposed on development projects by local agencies responsible for regulating land use (cities and counties). To guide the widespread imposition of impact fees, the State Legislature adopted the Mitigation Fee Act (the "Act") with Assembly Bill 1600 in 1987 and subsequent amendments. The Act, contained in California Government Code Sections 66000 through 66025, establishes requirements on local agencies for the imposition and administration of impact fee programs. The Act requires local agencies to document five findings when adopting an impact fee.

The five statutory findings required for adoption of the LDMF to fund habitat acquisition and M&M costs under the MSHCP are summarized in this chapter and supported in detail by the body of this report. All statutory references are to the Act.

Purpose of Fee

For the first finding the agency must:

Identify the purpose of the fee. (§66001(a)(1))

The purpose of the LDMF is threefold. First, the LDMF provides a funding source from new development for the acquisition of habitat lands and the monitoring and management of those lands in perpetuity. All three activities mitigate development impacts and carry forward the purposes and objectives of the MSHCP. The LDMF advances a legitimate public interest by funding habitat conservation and maintaining habitat values of Reserve System lands in perpetuity as required by the Implementing Agreement executed by each Permittee.

Second, the conservation actions funded by the LDMF will also construct and maintain a Reserve System that is a valuable community amenity. Residents and visitors to the region will benefit from a system of conserved lands containing native ecosystem types and natural communities in their natural range of variation. Many of the Reserve System lands provide trails and other passive recreational opportunities (e.g. bird watching). Conservation of these and other lands provide the community with scenic vistas and backdrops to developed uses such as residential and visitor serving uses.

Third, fulfillment of the MSHCP also provides a key public service to the Coachella Valley and its prospects for streamlined economic development. The incidental take authority granted by the Permit avoids a time consuming and costly process to determine mitigation for impacts to Covered Species from new development.

Use of Fee Revenues

For the second finding the agency must:

Identify the use to which the fee is to be put. If the use is financing public facilities, the facilities shall be identified. That identification may, but need not, be made by reference to a capital improvement plan as specified in Section 65403 or 66002, may be made in

applicable general or specific plan requirements, or may be made in other public documents that identify the public facilities for which the fee is charged. (§66001(a)(2))

Fees covered by the requirements of the Act are those used to defray all or a portion of the cost of public facilities related to new development. The Act defines public facilities as including "public improvements, public services, and community amenities." (§66000(d)). LDMF revenue will provide most of the funding necessary to acquire a Reserve System of 86,800 acres of habitat and related costs as a community amenity. Under the MSHCP, this habitat acquisition program provides a comprehensive approach to mitigate the loss of species and habitat caused by all development in the Coachella Valley or adjacent areas.

All habitat acquired with funding from the LDMF will be located within the Conservation Areas. The MSHCP represents the public document referenced in the statute above that adequately identifies the amount, type, and general location of land to be acquired with LDMF funding.

The agencies responsible for implementing the LDMF (including the CVCC among others) will restrict the use of fee revenues to costs associated with the habitat acquisition and M&M programs. These costs include:

- Land acquisition and related costs such as appraisals and title insurance;
- Land preparation measures such as fencing to protect habitat from human impacts;
- M&M costs including adaptive management elements required by the MSHCP; and
- Administrative costs associated with management of the habitat acquisition and M&M programs.

Each of the above cost elements should bear a reasonable relationship to the inventory of acquired lands. The detailed breakdown of land acquisition and M&M costs to be funded by the LDMF are given in Chapter 4 of this report, *Cost of MSHCP Activities*.

Benefit Relationship

For the third finding the agency must:

Determine how there is a reasonable relationship between the fee's use and the type of development project on which the fee is imposed. (§66001(a)(3))

All new development within the Coachella Valley will directly or indirectly benefit from the LDMF by funding a comprehensive approach to habitat mitigation. The 86,800 acres to be acquired, monitored, and managed in part with fee revenues are one component of the 723,480-acre MSHCP Reserve System. The MSHCP Reserve System is the preferred alternative representing the area necessary to protect the Covered Species and the conserved natural communities identified in the MSHCP.

Establishment of the MSHCP Reserve System and funding its monitoring and management in perpetuity will mitigate the impacts on Covered Species and conserved natural communities by all new development and associated public infrastructure projects within the Coachella Valley for the term of the Permit. Each type of project leads to the elimination of habitat, whether directly,

indirectly, or as a cumulative effect. Thus, there is a reasonable relationship between the use of LDMF revenue and all types of new residential and nonresidential development throughout the Coachella Valley that will pay the fee. Because the impact is the same for each developed acre, the level of the fee is uniform across all land uses.

LDMF revenue is used to acquire land and conduct monitoring and management activities in perpetuity as required by the IA. Because the Permit provides for incidental take authority, these three actions benefit new development, as described in detail in Chapter 4 of this report, *Cost of MSHCP Activities*.

Burden Relationship

For the fourth finding the agency must:

Determine how there is a reasonable relationship between the need for the public facility and the type of development project on which the fee is imposed. (§66001(a)(4))

All vacant lands in the Coachella Valley, including vacant lands or partially vacant lands in urban areas, represent current or potential habitat for Covered Species and the conserved natural communities identified in the MSHCP. All new development projects on vacant or partially vacant lands regardless of location will have direct, indirect, and/or cumulative impacts on species and existing or potential habitat and natural communities.

New development also causes a need for and benefits from the installation of public infrastructure. Without new development, no further habitat conservation to mitigate for development impacts would be needed in the Plan Area. Therefore, there is a reasonable relationship between the need for habitat conservation and all types of residential and nonresidential development throughout the Coachella Valley that will pay the fee.

The need for habitat conservation, including acquisition of land and monitoring and management of those lands in perpetuity, was determined through the MSHCP planning process using scientific standards. The MSHCP Reserve System includes land necessary to represent a range of native ecosystem types, to maintain or restore viable populations of species, and to sustain ecological and evolutionary process necessary for maintaining the viability of habitats. The MSHCP obligates Permittees to establish an endowment to fund the M&M programs needed by the Reserve System.

Based on these standards, the Reserve System only includes that amount of habitat conservation necessary to mitigate new development impacts. In addition, the funding required to monitor and manage Reserve system lands is the minimum required to establish an endowment capable of funding these activities in perpetuity. Habitat needs are described in more detail in Chapter 3, *Need for Habitat Conservation*.

Proportionality

For the fifth finding the agency must:

Determine how there is a reasonable relationship between the amount of the fee and the cost of the public facility or portion of the public facility attributable to the development on which the fee is imposed. (§66001(b))

New development will pay the LDMF over the remainder of the 75 year Permit, representing 109,779 developed acres. Each newly developed acre has approximately the same proportionate impact by causing the direct, indirect, or cumulative, loss of an acre of habitat for Covered Species and the conserved natural communities. The Permit allows for incidental take authority to be issued for otherwise lawful actions such as new development, provided the mitigation and other measures set forth in the MSHCP are satisfied.

As the LDMF has been designed, habitat acquisition program costs are spread as evenly as practicable across all developed acres. Habitat monitoring and management costs are also spread as evenly as practicable across all developed acres. The LDMF is calculated on a per acre basis and the total fee for a specific project is based on its size as measured in acres. Thus there is a reasonable relationship between the fee for a specific development project and the direct, indirect, or cumulative impact of that project on the need for habitat protection.

The fee schedule uses the per acre cost of the program to apply to nonresidential development projects. For residential development projects, the fee schedule converts the per acre cost to a cost per dwelling unit based on the density of the project (dwelling units per acre).

See Chapter 2, *Plan Area Land Use*, for a description of how new development is determined. See Chapter 5, *Cost Allocation and Fee Schedule*, for a presentation of the mitigation fee schedule.

7. Implementation

This chapter identifies the responsibilities that the CVCC and Local Permittees should fulfill when implementing the LDMF program.

Adoption of an Updated LDMF by Local Permittees

Each Local Permittee must adopt an updated ordinance or amend an LDMF existing ordinance, and a fee resolution stating the amount of the updated fee. The revised fee ordinance shall become effective 60 days after adoption.

However, updated fees shall not be collected until the 60-day period has been met, whichever date is later. The ordinance should include provisions for an automatic inflation adjustment to the fee. The CVCC could assist in this process by preparing a model ordinance and resolution for the LDMF update for each agency to review.

Adoption of Administrative Guidelines

The CVCC should work with Local Permittees to develop administrative guidelines for the LDMF program. These guidelines would address, for example:

- A method for applying the fee to development of partially vacant parcels;
- Definitions of land use categories; and
- Transfer of fee revenues to various CVCC funds.

Programming Revenues and Projects

The CVCC should program fee revenues to its acquisition program and related expenditures. This ensures documentation of a reasonable relationship between new development and the use of mitigation fee revenues.

The CVCC may alter the planned acquisition or related land preparation costs from those shown in this report. However, all expenditures must continue to fund expansion of the inventory of land conserved for habitat under the guidelines of the MSHCP or pay for the other costs set forth above.

For a five-year planning period, the agency should allocate all existing fund balances and projected fee revenue to specific acquisitions or related land preparation measures. The agency can hold funds in an account for longer than five years if necessary to collect sufficient funds to complete the acquisition.

Annual Inflation Adjustment

The CVCC should identify an appropriate inflation adjustment and recalculate the fee annually for each Local Permittee to adopt. Given that the majority of costs are associated with land prices, the annual inflation adjustment could be calculated either by:

Using actual prices per acre for recently purchased habitat; or

 Providing for an annual CPI adjustment based upon the Consumer Price Index for "All Urban Consumers" in the Los Angeles-Anaheim-Riverside Area, measured as of the month of December in fiscal year immediately prior to the fiscal year that the revised fee will take effect.

Regardless of the calculated annual inflation adjustment, the CVCC should revise the fee accordingly if it appears that total program revenues and costs will not be in balance when the Land Acquisition Fund is terminated. The MSHCP states that the CVCC will update the Nexus Study at least every five years, and more often if deemed necessary, to ensure that the Local Development Mitigation Fee is adequate over the life of the acquisition program to fund the necessary land acquisition and land preparation.

Reporting Requirements

The CVCC should assist the Local Permittees in complying with the annual and five-year reporting requirements of the *Mitigation Fee Act*. In addition to reporting on revenue and expenditure activity, the agency must identify when the other revenues in addition to the LDMF are anticipated to be available to fund the habitat acquisition program.

Appendix A: Cash Flow Analysis

Tables A-1 through A-6 present the cash flow analysis for the distribution of LDMF revenues, Land Acquisition Fund, the Monitoring and Management Fund and the Endowment Fund. The LDMF was calculated to result in a zero ending fund balance at the end of 50 years.

List of Tables

Table A-1: Table A-1: LDMF Revenue and Allocation (Nominal \$)

Table A-2: Land Acquisition Fund (Nominal \$)

Table A-3: Endowment Fund (Nominal \$)

Table A-4: Monitoring Program Budget (Nominal \$)

Table A-5: CVMSHCP Management Program Budget (Nominal \$)

Table A-6: Monitoring & Management Fund (Nominal \$)

Table A-1: LDMF Revenue and Allocation (Nominal \$)

and Allocation (Nominal *)	_																								
FY Ending June 30	9	2009		2010		2011	Ñ	2012	2	2013	~	2014	2015		2016		2017	17	2018	18	2019	19	2020		2021
Plan Year	ar	-		2		3		4	į	5		9	7		80	I	"	6	7		=		12		13
Mitigation Fee Revenue																									
New Developed Acres		40		117		125		368		552		644		828	1,1	1,104		1,104		1,380		1,380	1,	1,380	1,610
Fee Exempt Acres		'		1				89		98		99		89		89		10		10		10		10	10
Acres Subject to Fee		40		117		125		300		484		576		260	1,6	1,036		1,094		1,370		1,370	1,:	1,370	1,600
Mitigation Fee	69	5,730 \$	ક્ક	5,730 \$	69	5,730	69	5,600	69	5,784	43	5,975	8	6,171	\$ 6,3	6,374	69	6,584	69	6,800	69.	7,024	7,7	7,255 \$	7,494
Local Development Mitigation Fee Revenue	69	230,810 \$	€9	673,242 \$ 714,000	€9	714,000	\$ 1,6	1,679,000 \$ 2,798,000	\$ 2,		\$ 3,4	\$ 3,440,000	\$ 4,689,000		\$ 6,602,000	00	\$ 7,20	\$ 7,203,000 \$ 9,317,000 \$ 9,623,000	16,6 \$	2,000 \$	\$ 9,62	3,000	\$ 9,940,000		\$11,990,000
Allocation by Fund																									
Land Acquisition	€9	230,810 \$		673,242 \$	↔	714,000	69	242,000 \$ 1,669,000	\$ 1,0		\$ 2,5	\$ 2,509,000	\$ 3,268	000	\$ 3,268,000 \$ 4,938,000 \$ 6,642,000 \$ 8,077,000 \$ 8,509,000 \$ 8,332,000	000	9'9 \$	12,000	\$ 8,07	7,000 \$	\$ 8,50	\$ 000'6	\$ 8,332,0		\$10,574,000
Endowment		•		r		•		•		1		1						1		,					•
Monitoring & Management		•		•		'	1,4	1,437,000	-	1,129,000	S	931,000	1,421,000	00	1,664,000	일	മ്	561,000	1,24	1,240,000	1,11	1,114,000	1,608,000	000	1,416,000
Total Expenditures	€9	230,810	49	230,810 \$ 673,242 \$ 714,000	₩	714,000	3,1,8	1,679,000	\$ 2,	\$ 2,798,000	\$ 3,4	\$ 3,440,000	\$ 4,689,000		\$ 6,602,000		\$ 7,20	\$ 7,203,000	\$ 9,317,000		\$ 9,623,000		\$ 9,940,000		\$11,990,000
	1	1				0.1.0	1	7000			-														
	Note:	Note. All values shown in nominal dollars, i.e. including inliation at 3.29% percent annually unless otherwise noted. See text for explanation of each revenue and cost line tem	E E	nominal dollar	.s. .e.	. including infla	ition at	3.29% perce	entan	nually unless	other	vise noted.	See text to	r explan	ation of eact.	reven	ne and	cost line Ite	Ė						
	S.	Sources: Coachella Valley Association of Governments: Willdan Financial Septices	Valley	Association	9	ernmente: Will	ij	iyaaS leisaari	9																
		,			,																				

Table A-1: LDMF Revenue

and Allocation (Nominal \$)													
FY Ending June 30	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
Plan Year	14	15	16	17	18	19	20	21	22	23	24	25	26
C													
New Developed Acres	1 610	1610	1 610	1610	1640	1610	1 610	1 610	1 610	1 610	1610	1610	1610
ree Exempt Acres	ולי. יי				20,1	2 1	2 1	וברים ליברים	20.1	2 '	20'	ָרָי . בּיבוּ	ָבָי בי
Acres Subject to Fee	1,610	1,610	1,610	1,610	1,610	1,610	1,610	1,610	1,610	1,610	1,610	1,610	1,610
Mitigation Fee	\$ 7,741	7,741 \$ 7,995 \$	5 \$ 8,258	\$ 8,530	\$ 8,811	\$ 9,100	\$ 9,400	\$ 9,709	\$ 10,029	\$ 10,358	\$ 10,699	\$ 11,051	\$ 11,415
Local Development Mitigation Fee Revenue	\$12,462,000	\$12,872,000	\$12,462,000 \$12,872,000 \$13,296,000	\$13,733,000	\$14,185,000	\$14,652,000	\$15,134,000	\$15,632,000	\$16,146,000	\$16,677,000	\$17,226,000	\$17,793,000	\$18,378,000
Allocation by Fund Land Acquisition Endowment	\$12,109,000	\$11,724,000	\$12,109,000 \$11,724,000 \$11,756,000		\$12,121,000	\$13,488,000 -	\$11,919,000 \$12,121,000 \$13,488,000 \$13,165,000 \$13,175,000 \$13,375,000 \$13,596,000 \$13,977,000 \$14,404,000 \$14,864,000	\$13,175,000	\$13,375,000	\$13,596,000	\$13,977,000	\$14,404,000	\$14,864,000
Monitoring & Management	353,000	1,148,000	353,000 1,148,000 1,540,000	1,814,000	2,064,000	1,164,000	1,969,000	2,457,000	2,771,000	3,081,000	3,249,000	3,389,000	3,514,000
Total Expenditures	\$12,462,000	\$12,872,000	\$12,462,000 \$12,872,000 \$13,296,000	\$13,733,000	\$14,185,000	\$14,652,000	\$15,134,000	\$15,632,000	\$16,146,000	\$16,677,000	\$17,226,000	\$17,793,000	\$18,378,000

Table A-1: LDMF Revenue

and Allocation (Nominal \$)													
FY Ending June 30	2	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047
Plan Year	. 27	28	59	30	31	32	33	34	35	36	37	38	39
Mitigation Fee Revenue													
New Developed Acres	1,610	1,610	1,610	1,610	1,610	1,610	1,610	1,610	1,610	1,610	1,610	1,610	1,610
Fee Exempt Acres	'	'	•	•	1	1	•	1	1	1	1		-
Acres Subject to Fee	1,610	1,610	1,610	1,610	1,610	1,610	1,610	1,610	1,610	1,610	1,610	1,610	1,610
Mitigation Fee	\$ 11,790	\$ 11,790 \$ 12,178 \$	\$ 12,579	\$ 12,993	\$ 13,420	\$ 13,862	\$ 14,318	\$ 14,789	\$ 15,275	\$ 15,778	\$ 16,297	\$ 16,833	\$ 17,387
Local Development Mitigation Fee Revenue	\$18,983,000	\$18,983,000 \$19,607,000 \$20,252,000	\$20,252,000	\$20,918,000	\$21,607,000	\$22,318,000	\$23,052,000	\$23,052,000 \$23,810,000	\$24,594,000	\$25,403,000	\$26,238,000	\$27,102,000	\$27,993,000
Allocation by Fund	\$15.349.000	\$15 349 DDD \$15 855 DDD \$16 382 DDD	\$16.382.000	\$16.929.000	\$16.929.000 \$17.658.000	\$18.250.000	\$18 861 000	\$19,494,000	\$18 R61 DDD - \$19 404 DDD - \$20 147 DDD - \$20 821 DDD - \$21 548 DDD - \$22 241 DDD	\$20,821,000	\$24 548 000	\$22 241 000	8.22 GR 000
Endowment		-	1	1	1	-	-	-	-	- 10,01	,		,000,000
Monitoring & Management	3,634,000	3,634,000 3,752,000 3,870,000	3,870,000	3,989,000	3,949,000	4,068,000	4,191,000	4,316,000	4,447,000	4,582,000	4,720,000	4,861,000	5,007,000
Total Expenditures	\$18,983,000	\$18,983,000 \$19,607,000 \$20,252,000	\$20,252,000	\$20,918,000	\$21,607,000	\$22,318,000	\$23,052,000	\$23,810,000	\$24,594,000	\$25,403,000	\$26,238,000	\$27,102,000	\$27,993,000

Table A-1: LDMF Revenue and Allocation (Nominal \$)

and Allocation (Nominal \$)	_															
FY Ending June 30	2048	2049		2050	2051	2	2052	2053	2054	2055	2056	2057	2058	2059		2060
Plan Year	r 40	41		42	43		44	45	46	47	48	49	20	51		52
Mitigation Fee Revenue																
New Developed Acres	1,610		1,610	1,610	1,610	_	1,610	1,610	1,610	1,610	1,610	1,610	1,610		1,610	1,610
Fee Exempt Acres	'		ا ا'	'			' 	'	'	1	1	•	1		'	1
Acres Subject to Fee	1,610		1,610	1,610	1,610		1,610	1,610	1,610	1,610	1,610	1,610	1,610	,-	,610	1,610
Mitigation Fee	\$ 17,959 \$ 18,550 \$ 19,160	\$ 18,5	550 \$	19,160	\$ 19,791	69	20,442 \$	\$ 21,114	\$ 5,875	\$ 6,057	\$ 6,243	\$ 6,437	\$ 6,635	69	6,840 \$	7,050
Local Development Mitigation															! [
Fee Revenue	\$28,914,000 \$29,866,000 \$30,848,000	\$29,866,0	000 \$3	0,848,000	\$31,863,000		\$32,911,000 \$:	\$33,994,000	\$ 9,459,000 \$ 9,752,000	\$ 9,752,000	\$10,052,000		\$10,364,000 \$ 10,682,000	\$11,012,000		\$11,351,000
Allocation by Fund																
Land Acquisition	\$23,758,000	\$24,554,(000 \$2	5,378,000	\$23,758,000 \$24,554,000 \$25,378,000 \$26,228,000	, \$27,	108,000 \$.	\$27,108,000 \$28,018,000 \$	ı &	· \$	ا چ	ج	•	↔	()	1
Endowment	•		,	1	•		•	•	3,304,000	3,413,000	3,525,000	3,641,000	3,761,000	3,885,000	000	4,013,000
Monitoring & Management	5,156,000	5,156,000 5,312,000 5,470,000	000	5,470,000	5,635,000		5,803,000	5,976,000	6,155,000	6,339,000	6,527,000	6,723,000	6,921,000	7,127,000	000	7,338,000
Total Expenditures	\$28,914,000 \$29,866,000	\$29,866,0	000	0,848,000	\$30,848,000 \$31,863,000		\$32,911,000 \$:	\$33,994,000	\$ 9,459,000	\$ 9,752,000	\$10,052,000	\$10,364,000	\$ 10,682,000	\$11,012,000	₩	11,351,000

Table A-1: LDMF Revenue and Allocation (Nominal \$)

and Allocation (Nominal \$)	2061	2062		2063	2064	18	2065	2066		2067	2068	2069	2070	2071	2022	2073
Plan Year		54	"	55	26	I **	57	58	' "	59	90	61	62	63	64	65
Mitigation Fee Revenue																
New Developed Acres Fee Exempt Acres	1,610	1,610	0 '	1,610	1,610	_	1,610	1,610	0 '	1,610	1,610	1,610	1,610	1,610	1,610	1,610
Acres Subject to Fee	1,610	1,610	10	1,610	1,610		1,610	1,610	0	1,610	1,610	1,610	1,610	1,610	1,610	1,610
Mitigation Fee	\$ 7,268	\$ 7,268 \$ 7,491 \$	63	7,722	\$ 7,960	69	8,204	\$ 8,457	\$	8,716	\$ 8,984	\$ 9,259	\$ 9,543	\$ 9,836	\$ 10,139	\$ 10,449
Local Development Mitigation Fee Revenue	\$11,701,000	\$11,701,000 \$12,061,000 \$12,432,000	0 \$12,4	132,000	\$12,815,000		\$13,209,000	\$13,615,000		\$14,033,000 \$	\$14,464,000	\$14,907,000	\$15,365,000	\$15,836,000	\$16,323,000	\$16,823,000
Allocation by Fund	e.	¥	¥	•	· •	¥		¥	4	·	,	¥	¥	e	U	¥
Endowment	4,145,000	4,281,000 4,422,000	, 4 4,4	122,000	4,568,000	4,7	4,718,000	4,873,000	•	5,033,000	5,199,000	5,370,000	5,547,000	5,729,000	5,918,000	6,113,000
Monitoring & Management	7,556,000	7,780,000		8,010,000	8,247,000	8,4	8,491,000	8,742,000	-	9,000,000	9,265,000	9,537,000	9,818,000	10,107,000	10,405,000	10,710,000
Total Expenditures	\$11,701,000	\$11,701,000 \$12,061,000 \$12,432,000	0 \$12,4		\$12,815,000		\$13,209,000	\$13,615,000		\$14,033,000 \$	\$14,464,000	\$14,907,000	\$15,365,000	\$15,836,000	\$16,323,000	\$16,823,000

Table A-1: LDMF Revenue and Allocation (Nominal \$)

and Allocation (Nominal \$)											
FY Ending June 30	0 2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2009 - 2083
Plan Year	ır 66	67	68	69	70	71	72	73	74	75	Total
Mitigation Fee Revenue											
New Developed Acres	1,610	1,610	1,610	1,610	1,610	1,610	1,610	1,610	1,610	1,610	110,452
Fee Exempt Acres		1		1	1	'	'	'	'	'	391
Acres Subject to Fee	1,610	1,610	1,610	1,610	1,610	1,610	1,610	1,610	1,610	1,610	110,061
Mitigation Fee	\$ 10,769	9 \$ 11,098	\$ 11,439	\$ 11,788	\$ 12,148	\$ 12,519	\$ 12,901	\$ 13,293	\$ 13,698	\$ 14,116	NA
Local Development Mitigation											
Fee Revenue	\$17,338,000 \$1	3 \$17,868,000	\$18,416,000	\$18,979,000	\$19,559,000	\$20,155,000	\$20,770,000	\$21,402,000	\$22,054,000	\$22,726,000	\$ 1,212,881,052
Allocation by Fund											
Land Acquisition	↔	69	· •	ا چ	· &9	· &>	1 69	()	· 49	· 69	\$ 627,586,000
Endowment	6,314,000	0 6,522,000	000,737,000	6,959,000	7,188,000	7,424,000	7,668,000	7,920,000	8,181,000	8,450,000	164,821,000
Monitoring & Management	11,024,000		11,679,000	12,020,000	12,371,000	12,731,000	13,102,000	13,482,000	13,873,000	14,276,000	420,474,000
Total Expenditures	\$17,338,000	3 \$17,868,000	\$18,416,000	\$18,979,000	\$19,559,000	\$20,155,000	\$20,770,000	\$21,402,000	\$22,054,000	\$22,726,000	\$ 1,212,881,052

Table A-2: Land Acquisition Fund (Nominal \$)

r and (Normial 9)	0000	0000	2011	2042	2043	2014	2015	2016	2047	2018	2040	2020	2024	2022	2003	2004	2005	9006	2022
Plan Year	, t	2	3	4	5	9	7	8	6	10	=	12	13	4	15	18	17	18	19
Beginning Fund Belance	, 69	\$ 1,604,304	\$ 1,604,304 \$ 312,000 \$ 4,749,000 \$ 2,610,000	\$ 4,749,000	\$ 2,610,000 \$	1,690,000 \$ 1,467,000	1,467,000 \$	\$ 1,897,000 \$ 23,157,000 \$ 26,331,000 \$ 27,101,000 \$ 22,7786,000 \$ 28,172,000 \$ 38,610,000 \$ 30,689,000 \$ 26,461,000 \$ 21,589,000	\$ 23,157,000 \$	26,331,000 \$	27,101,000 \$	27,786,000 \$	28,172,000 \$	38,610,000 \$	34,186,000 \$	30,690,000	\$ 26,461,000	\$ 21,569,000 \$	\$ 33,003,000
Revenues Local Development Mitigation Fee																			
Revenue	\$ 230,810 \$	0 \$ 673,242	\$ 714,000 \$		242,000 \$ 1,669,000 \$	2,509,000 \$	\$ 3,288,000 \$	\$ 4,938,000 \$	6,642,000 \$	\$ 000,770,8	8,509,000	\$ 8,332,000 \$	10,574,000 \$	\$10,574,000 \$12,109,000 \$11,724,000 \$11,756,000 \$11,919,000	11,724,000 \$	11,756,000 8		\$ 12,121,000 \$	\$ 13,488,000
CVAG - Measure A	3,081,805	5 6,670,775			•			•	2,000,000	2,000,000	1,794,000		•			•		•	•
Caltrans			•	•				12,305,000					14,466,000			•		17,008,000	•
CVWD		,	•	•	•			10,486,000						•		•	•	•	•
Contributions		- 1,540,000	•	•		•		•	,	,	•	,	,	,		•	•	•	٠
Grants		- 1,845,600	•	•	•	•	,	•	•	•	,	,	,	,	•	•	•	•	•
Other	43,500	100,800	•	•	•			•	•		•			•		•	•		•
Interest Earnings'	2,00	4,000	18,000	272,000	150,000	97,000	84,000	109,000	1,327,000	1,509,000	1,553,000	1,592,000	1,500,000	2,098,000	1,959,000	1,759,000	1,518,000	1,238,000	1,891,000
Total Revenues	\$ 3,358,115	15 \$10,634,417	\$ 7,004,000	\$ 7,004,000 \$ 514,000 \$	\$ 1,819,000 \$	2,606,000 \$	\$ 3,352,000 \$	\$ 27,636,000 \$	\$ 9,969,000	\$ 11,586,000 \$	\$ 11,656,000 \$	\$ 9,924,000 \$	\$ 26,540,000 \$	\$ 14,207,000 \$	\$ 13,683,000 \$	\$ 13,515,000	\$ 13,435,000	\$ 30,365,000	\$ 15,379,000
Expenditures																			
Lend Cost Per Acre	\$ 9,617	17 \$ 10,574	\$ 10,091	\$ 10,423 \$	\$ 10,766 \$	11,120 \$	11,486 \$	\$ 11,864 \$	5 12,254 \$	12,657 \$	13,073 \$	13,504 \$	13,948 \$	14,407 \$	14,881 \$	15,370	\$ 15,876	\$ 16,398 \$	16,938
Acres Purchased	150	1,100	200	200	200	200	200	200	200	900	900	900	1,100	1,100	1,100	1,100	1,100	1,100	900
Land Acquisition	\$ 1,442,45	\$ 1,442,498 \$11,631,796	\$ 2,016,000	\$ 2,085,000	\$ 2,153,000 \$	2,224,000 \$	2,297,000 \$	5,932,000 \$	6,127,000 \$	\$ 10,126,000 \$	\$ 10,459,000 \$	\$ 10,803,000 \$	\$ 15,343,000 \$	\$ 15,647,000 \$	\$ 16,369,000 \$	\$ 16,907,000	\$ 17,464,000	\$ 18,038,000 \$	15,244,000
Land Preparation			194,000	201,000	207,000	214,000	221,000	228,000	236,000	244,000	252,000	260,000	266,000	277,000	286,000	296,000	305,000	316,000	326,000
Administration																			
Land Acquisition Manager (contract)	71,412	12 73,543	127,000	131,000	135,000	139,000	144,000	149,000	154,000	159,000	184,000	189,000	175,000	181,000	187,000	193,000	199,000	206,000	213,000
Administration (program-wide share)	239,901	221,199	228,000	236,000	244,000	252,000	280,000	289,000	276,000	287,000	296,000	306,000	318,000	328,000	337,000	348,000	359,000	371,000	383,000
Total Expenditures	\$ 1,753,811	11 \$ 11,928,537		\$ 2,567,000 \$ 2,653,000 \$ 2,739,000	\$ 2,739,000 \$	2,829,000 \$	2,922,000	\$ 6,578,000 \$	6,795,000	\$ 10,816,000 \$	\$ 11,171,000 \$	\$ 11,536,000 \$	\$ 16,102,000 \$	\$ 16,631,000 \$	\$ 17,179,000 \$	\$ 17,744,000	\$ 18,327,000	\$ 18,931,000 \$	\$ 16,166,000
Net Cash Flow	\$ 1,604,30	\$ 1,604,304 \$ (1,292,120) \$ 4,437,000 \$ (2,139,000) \$ (920,000)	\$ 4,437,000	\$ (2,139,000) {	\$ (920,000) \$	\$ (000'822)	430,000	\$ 21,260,000 \$	3,174,000 \$	\$ 000,077	865,000	\$ (1,614,000) \$	\$ 10,438,000 \$	\$ (2,424,000) \$	\$ (3,496,000) \$	\$ (4,229,000) \$	\$ (4,892,000)	\$ 11,434,000 \$	(787,000)
Ending Fund Balence	\$ 1,604,30	\$ 1,604,304 \$ 312,184 \$ 4,749,000 \$ 2,610,000 \$ 1,690,000	\$ 4,749,000	\$ 2,610,000	\$ 1,690,000 \$	1,467,000 \$	\$ 1,897,000 \$	\$23,157,000 \$28,331,000 \$27,101,000 \$27,786,000 \$36,172,000 \$36,610,000 \$34,186,000 \$32,690,000 \$26,461,000 \$21,569,000 \$33,003,000 \$32,216,000	\$ 26,331,000 \$	27,101,000 \$	27,786,000 \$	26,172,000 \$	36,610,000 \$	34,186,000 \$	30,690,000 \$	26,461,000	\$ 21,569,000	\$ 33,003,000 \$	32,216,000

Note: At robos shown in naniari dalians, (a including infalsion et 3.29 persenti annually unites otherwise notest. See lest for explanation of open inventue and sest fairs from.
Assume methial inventuely deal of 1.75 open seed of the second of the second

Table A-2: Land Acquisition

74 Ending June 30 2028 2029 2019 ce \$ 32.216,000 \$ 30,528,000 \$ 28,2 Miligation Fee \$ 13,165,000 \$ 13,175,000 \$ 13,3 1,848,000	2031 23 200 \$ 25,381,000 000 \$ 13,596,000	2	2033 25	2034 26	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045
igation Fee	000 \$25,381,000 000 \$13,596,000	000			7	87	87	30	31	35	3	5	8	36	37
opment Miligation Fee saure A Is Ings'	000 \$13,596,000		\$ 16,265,000 \$ 1.	\$14,085,000 \$12	\$ 12,667,000 \$	\$ 11,091,000 \$	8,784,000 \$	\$ 5,666,000 \$	\$ 2,260,000 \$	3,454,000	\$ 4,763,000	\$ 6,194,000 \$	\$ 6,703,000	\$ 6,548,000 \$	5,997,000
ssure A. Is nings' enues	000 \$13,596,000														
nings' 1,749,000 1,1749,000 1,			4,404,000 \$1.	4,864,000 \$ 15	3,349,000 \$	000 \$14,404,000 \$14,864,000 \$15,349,000 \$15,855,000 \$	16,382,000 \$	16,929,000	16,382,000 \$ 16,929,000 \$ 17,658,000 \$	18,250,000 \$	\$ 18,861,000	19,494,000 \$	\$ 20,147,000	18,250,000 \$18,861,000 \$19,494,000 \$20,147,000 \$20,821,000 \$21,518,000	21,518,000
nings' 1,749,000 1,749,000 1,8 enues \$ 15,011,000 \$ 14,824,000 \$ 14,82										•	•		•		
nings' 14,824,000 1.17,48,000 1.18	•	•	•	•			•	•	•	•	•	٠	•	1	•
nings' 1,749,000 1,749,000 1,8 enues \$ 15,011,000 \$ 14,924,000 \$ 14,5			,			•	•	•	•	•	•	•		•	-
nings' 1,846,000 1,749,000 1,8								•		•	•	•	•		-
\$ 15,011,000 \$ 14,924,000 \$ 14,9	000 1,454,000	1,262,000	1,047,000	000,708	726,000	636,000	503,000	325,000	129,000	198,000	273,000	355,000	384,000	375,000	344,000
	₩.	00'	\$ 15,451,000 \$ 1		\$ 16,075,000 \$	\$ 18,491,000 \$	16,885,000 \$	\$ 17,254,000 \$	\$ 17,787,000 \$	18,448,000	\$ 19,134,000		\$ 20,531,000 \$	\$ 21,196,000 \$	\$ 21,862,000
			;											!	
Land Cost Per Acre \$ 17,495 \$ 18,071 \$ 18,6	18,665 \$ 19,279	\$ 19,914 \$	20,569	21,245 \$	27,944 \$	22,666 \$	23,412 \$	24,182 \$	3,809 8	3,834	4,064	4,197	4,335	4 478 \$	4,625
One One		2				2	200		l non't						100
\$ 15,746,000 \$ 16,264,000 \$ 16,	\$17	8 8				\$ 17,566,000 \$			\$ 15,235,000 \$						\$ 20,814,000
Administration 535,000 546,000 539,000	000,1 %	202,202	000,000	000	455,000	000,024	90'-94	000,001	000,104	000,084	200,5	200,000	000	000,000	000,400
Land Acquisition Manager (contract) 220,000 227,000 234,000	000 242,000	250,000	258,000	266,000	275,000	264,000	293,000	303,000	313,000	323,000	334,000	345,000	356,000	368,000	380,000
396,000 409,000	000 436,000	450,000	485,000	480,000	496,000	512,000	529,000	548,000	564,000	583,000	802,000	622,000	642,000	663,000	885,000
Total Expenditures \$ 16,699,000 \$ 17,248,000 \$ 17,814,000	000 \$18,400,000		\$ 19,631,000 \$1	\$17,089,000 \$17	\$ 17,651,000 \$	\$ 18,798,000 \$	20,003,000 \$	\$ 20,660,000 \$	\$ 16,593,000 \$	17,139,000	\$ 17,703,000 \$	\$ 19,340,000 \$	\$ 20,686,000	\$ 21,747,000 \$	\$ 22,463,000
\$ (1,688,000) \$ (2,324,000) \$ (2,323,000) \$ (3,350,000) \$ (3,766	(3,350,000)		000) \$ (4,180,000) \$ (1,418,000) \$ (1,576,000) \$ (2,307,000) \$	1,418,000) \$ (1	\$ (000'925'	\$ (000,706,5)	(3,118,000) \$	(3,118,000) \$ (3,406,000) \$ 1,194,000	1,194,000 \$	1,309,000	\$ 1,431,000 \$	\$ 000'609 \$	(155,000) \$	\$ (155,000) \$ (551,000) \$	(601,000)
Ending Fund Balance \$ 30,528,000 \$ 28,204,000 \$ 25,381,000 \$ 222,031,000 \$ 18,286	000 \$ 22,031,000	000'	\$14,085,000 \$12,667,000 \$11,091,000 \$ 8,784,000	2,667,000 \$11	\$ 000,160,1	8,784,000 \$	5,666,000 \$	5,666,000 \$ 2,260,000 \$ 3,454,000	8 3,454,000 \$		\$ 6,194,000	\$ 6,703,000 \$	4,763,000 \$ 6,194,000 \$ 6,703,000 \$ 6,548,000 \$ 5,997,000	\$ 5,997,000 \$	\$ 5,396,000

Table A-2: Land Acquisition

FY Ending June 30	2046	2047	2048	2049	2050	2051	2052	2053		2055	2056	2057 2	2058	2059 2	2060 2081	31 2062	2063	ľ	2065
Plan Year	38	38	40	41	42	43	44	45	48	47	48	49	50	51	52 53	22	929	99	57
Beginning Fund Balance	\$ 5,396,000	\$ 4,743,000	\$ 5,398,000 \$ 4,743,000 \$ 4,035,000 \$ 3,270,000 \$ 2,443,000	\$ 3,270,000		\$ 1,551,000 \$	586,000	\$ (448,000) \$ (1,573,000) \$ (1	1) \$ (000'525'	t) \$ (000'E25'	(000,072;1) \$ (000,672;1) \$ (000,673;1000) \$ (1,573,000) \$ (1,573,000) \$ (1,573,000)	.573,000) \$ (1		########	#######################################	*#*####	*********	#######################################
Revenues Local Development Mitigation Fee									•	•	•	•	•	•	•	•	•	•	•
Revenue CVAG - Measure A	\$ 22,241,000	\$ 22,966,000	\$22,241,000 \$22,966,000 \$23,758,000 \$24,554,000 \$25,378,000	\$ 24,554,000		\$ 28,228,000 \$ 27,108,000 \$ 28,018,000	; 000'80L'Z	\$ 28,018,000 \$, i			n 					9	9	
Caltrans		•	•	٠	٠								•						
CVWD	•	•	•	•	•	•	•				•					•		,	
Contributions	•	•	•	•	•	•	•	•											
Grants			•	•	•										,	,			
Other	•	•	•	•	,	,	•								,				
Interest Earnings'	309,000	272,000	231,000	187,000	140,000	69,000	34,000	•		•		•	1	I			•		
Total Revenues	\$ 22,550,000	\$ 23,258,000	\$ 23,989,000 \$ 24,741,000		\$ 25,518,000 \$	\$ 26,317,000 \$	\$ 27,142,000	\$ 28,018,000 \$	ч	s	€ 9	€ 7	s	1	69	69	€	69	69
Expenditures																			
Land Cost Per Acre	\$ 4,777	\$ 4,935	\$ 5,097	\$ 5,265	\$ 5,438 \$	5,617	5,802	\$ 5,993 \$	6,190 \$	6,393 \$	6,604 \$	6,821 \$	7,045 \$	7,277 \$	7,277 \$ 7,517 \$ 7,764	764 \$ 8,019	019 \$ 8,283	83 \$ 8,556	6 \$ 8,837
Acras Purchased	4,500	4,500	4,500	4,500	4,500	4,500	4,500	4,507		•		1	1	1		1	1		
Land Acquisition	\$ 21,499,000	\$ 22,208,000	\$ 22,937,000	\$ 23,691,000	\$ 24,471,000 \$	\$ 25,278,000 \$	\$ 28,107,000	\$ 27,008,000 \$	ю.	ю '	()	49	69	1	69	69	69	69	69
Land Preparation Administration	603,000	623,000	843,000	884,000	686,000	709,000	732,000	756,000	•					•		•			
Land Acquisition Manager (contract)	393,000	406,000	419,000	433,000	447,000	462,000	477,000	493,000				•		•			,		
Administration (program-wide share)	708,000	731,000	755,000	780,000	608,000	833,000	880,000	888,000		į		*	1	•	1			-	
Totel Expenditures	\$ 23,203,000	\$ 23,966,000	\$ 24,754,000	\$ 25,588,000	\$ 28,410,000	\$ 27,280,000 \$	\$ 28,176,000	\$ 29,145,000 \$	es I	es ,	to L	€ 9			69	69	69	€9	69
Net Cash Flow	\$ (853,000)	\$ (708,000)	\$ (853,000) \$ (708,000) \$ (765,000) \$ (827,000) \$ (892,000)	\$ (827,000) \$	_	\$ (000'696) \$	(1,034,000)	(963,000) \$ (1,034,000) \$ (1,127,000) \$	ы	en	€9	69 1	69 I	6 9	69	69	6 9	69	€9
Ending Fund Balance	\$ 4,743,000	\$ 4,035,000	\$ 4,743,000 \$ 4,035,000 \$ 3,270,000 \$ 2,443,000 \$ 1,551,000	\$ 2,443,000	\$ 1,551,000 \$	588,000	(446,000)	\$ (446,000) \$ (1,573,000) \$ (1	1,573,000) \$ (1	,573,000) \$ (1	,573,000) \$ (1	,573,000) \$ (1,	573,000) \$ (1	,573,000) ##	### ####	####	####	#####	#######################################

Table A-2: Land Acquisition 5.00 (Nominal €)

Fund (Nominal \$)																			
FY Ending June 30	1	2067	2068	2069	ľ	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2009 - 2053
Plan Year	28	28	09	61	62	8	64	92	99	29	88	8	٤	7	72	2	74	75	Tota
Beginning Fund Balence	#######	#######	#######################################	#######################################	#######################################	#######################################	#######################################	#######################################	#######################################	#######################################	#######################################	######	######	######	######	#######	s #######	###### \$ (1,573,000)	
Revenues																			
Local Development Mitigation Fee																			
Revenue	69	es.	69 1	69 1	<i>U</i>)	· •		·	· •	·	s s	, 69	ı və		, Ю			•	\$ 627,586,000
CVAG - Measure A	•						•			•	•	•	•	•	•	•	•	•	21,619,000
Caltrans	•						٠			•	•	•	•	•	•	•	•	•	43,779,000
CVWD	•			,			•			•	•	•	•	•	•	•	•	•	10,466,000
Contributions	•		,		,		•			•	•	•	•	•	•	•	•	•	1,540,000
Grants	,						•			•	•	•	•	•	•			•	1,646,000
Other	•	•		,			•			•	•	•	ı	٠		,	,	•	144,000
interest Earnings'							•			ı	r								33,967,000
Total Revenues	٠ س	en.	69	es L	69	· •		8		·	٠ چ	· •	· ·	ا د	ا ب	' \$	U	•	\$ 740,967,000
Expenditures																			
Lend Cost Per Acre	\$ 9,128	\$ 9,428	8 \$ 9,738	8 \$ 10,059	9 \$ 10,390	5 10,731	\$ 11,084	\$ 11,449	3 \$ 11,826	\$ 12,215	\$ 12,617	\$ 13,032	\$ 13,461	\$ 13,903	\$ 14,361	\$ 14,833	\$ 15,321 \$	15,825	NA
Acres Purchased	'					1							'			'	=	•	88,098
Land Acquisition	69	en.	د ه	€9 1	6 29	· •>	· ·	• •∍	· •э	ر ج	٠ جه	en	69	·	· •>	·		•	\$ 691,506,000
Land Preparation	•		,				•		•	•	•	•	•	•	•	•		•	17,840,000
Administration																			
Land Acquisition Manager (contract)	•					•	•		•	•	r	•	•	•	•	•	•	•	11,771,000
Administration (program-wide share)												•					'	•	21,420,100
Total Expenditures	т сэ	en.	ري د	es I	69 1	· •>	·	· •	· •	· •	·	69	· •9	s	·	٠ چ	.	•	\$ 742,539,100
Net Cash Flow	69	69	69	679	63	· •	s	٠ به	69	69	69	69	69	69	г сэ	· •		•	
Ending Fund Balance	#######	#######################################	####	#### #	********* *****************************	#######################################	####	#######	#######################################	#######################################	#######	#######	######	***************************************	#######	#######	\$ #######	####### ###### \$ (1,573,000)	

Table A-3: Endowment Fund (Nominal \$)

FY Ending June 30		2009		2010	2011		2012	2013	2014	آ	2015	2016	2017	2018	_	2019	2020	e e
Plan Year	<u>_</u>	1	ļ	2	ဗ		4	5	9		7	80	6	10		11	12	
Beginning Fund Balance	69	'	63	803,120	69	63	2,024,000 \$ 1,548,000		\$ 2,269,000 \$ 2,627,000 \$ 1,964,000 \$ 1,595,000	\$ 1,5	364,000 \$	1,595,000	\$ 3,921,000	\$ 3,921,000 \$ 2,685,000 \$ 3,066,000 \$ 2,209,000	\$ 000	3,066,000	\$ 2,209	0,000,6
Revenues CVAG - Measure A	69	300,000	69	300,000 \$ 500,000	\$ 500,000	69	\$ 000,000	\$ 000,000 \$	\$ 500,000 \$		500,000 \$	\$ 000,009	\$ 600,000 \$		\$ 000,000	\$ 000,000		500,000
Regional Infrastructure Mitigation (CVWD & IID)							•									1		
CVFTL HCP Endowment Fund				•	•	_	•		•		ı	•	-			1		ı
CVAG/Caltrans		'		٠	ı		t	•	t		t	•	-	- 1,070,000	000	t		•
Caltrans		•		1			ı		t		t	2,533,000				ı		ı
CVWD		716,680	_	864,029	827,000	_	790,000	753,000			•	,	•			•		•
Local Development Mitigation Fee Revenue		'		1	•	,	1	•	•		•	•	-			•		•
· <u> </u>		105,000	_	126,588	121,000	_	116,000	110,000	•		•	ı	٠			ı		ı
Interest Earnings ¹		9,993	~~	15,859	116,000		89,000	130,000	151,000		113,000	91,000	225,000		154.000	176,000	127	127,000
Total Revenues	€9	1,131,673	es	\$ 1,131,673 \$ 1,506,476	\$ 1,564,000		\$ 1,495,000	\$ 1,493,000	\$ 651,000	↔		\$ 3,124,000	\$ 725,000	0 \$ 1,724,000	\$ 000'	676,000	\$ 627	627,000
Expenditures Transfer To/(From) Mgmnt & Monitoring Fund		328,553		285,960	2,040,000	_	774,000	1,135,000	1,314,000		982,000	798,000	1,961,000	0 1,343,000		1,533,000	1,105	1,105,000
Total Expenditures	₩	328,553	₩ •••	285,960	\$ 2,040,000	₩	774,000	\$ 1,135,000	\$ 1,314,000	₩	982,000 \$	798,000	\$ 1,961,000	0 \$ 1,343,000		\$ 1,533,000	\$ 1,105,000	2,000
Net Cash Flow	69	803,120	6	803,120 \$ 1,220,516	\$ (476,000	\$	(476,000) \$ 721,000 \$		358,000 \$ (663,000) \$ (369,000) \$ 2,326,000 \$ (1,236,000) \$	e) \$	\$ (000'698	2,326,000	\$ (1,236,000		\$ 000'	381,000 \$ (857,000) \$ (478,000)	\$ (478	8,000)
Ending Fund Balance	69	803,120	45	803,120 \$ 2,023,636	\$ 1,548,000	\$	\$ 2,269,000	\$ 2,627,000	\$ 2,627,000 \$ 1,964,000 \$ 1,595,000 \$ 3,921,000	3,1,5	\$ 000'565	3,921,000	\$ 2,685,000 \$ 3,066,000 \$ 2,209,000 \$ 1,731,000	0 \$ 3,066,	\$ 000	2,209,000	\$ 1,731	1,000
Capacity to Fund Operating Fund (%)		6.02%	\0	21.70%	3.47%	٠,	4.98%	5.61%	4.20%		3.20%	7.66%	5.11%		5.68%	3.99%	κj	3.04%
	Note	: Alt values s	shown ir	Note: All values shown in nominal dollars, i.e. includ	ars, i.e. including	inflation	n at 3,29 perce	ent annually unles	i.e. including inflation at 3.29 percent annually unless otherwise noted. See text for explanation of each revenue and cost line item.	See text	for explanatio	n of each reven	ie and cost line i	tem.				

Table A-3: Endowment Fund

g Fund Balance \$ 1 s. - Measure A al Infrastructure Mitigation (CVWD & IID) HCP Endowment Fund Caltrans \$	700 200 000	2	<u>o</u>	17	9	9	20	21	72	23	24
Weasure A Infrastructure Mitigation (CVWD & IID) ICP Endowment Fund 22		000 \$ 2.727.000	\$ 2.019.000	\$ 2727 000 \$ 2.019.000 \$ 1.625.000 \$ 1286.000 \$ 3250.000 \$ 1.811.000 \$ 1.009.000 \$	1 286 000	\$ 3.250.000	\$ 1.811.000 \$	\$ 000,000 \$	ļ.	562.000 \$ 313.000 \$ 174.000	\$ 174.000
\$ Infrastructure Mitigation (CVWD & IID) ICP Endowment Fund altrans			2 2 2 2 2 2	2001/2011/2011	200/201/			2006			
Infrastructure Mitigation (CVMD & IID) IOP Endowment Fund altrans	\$ 000,000 \$ 000,000	\$ 200,000 \$	\$ 500,000 \$	\$ 381,000 \$	1	1	1 49	1	•	· ·	· •
Itrans					,				1	•	•
altrans			•	•	•	•	•		•	i	
	•		1	1	1	1	1	•	•	ı	•
	. 000		•	•	2,533,000	•	•		•	•	•
CVWD	•	•	•	•	t	ť	r	•	•	•	•
Local Development Mitigation Fee Revenue			•	•	ŧ	r		•		•	
			1	•	,	•	1	•	1	•	
Interest Earnings ¹ 99,000	229,000	156,000	116,000	93,000	74.000	186,000	104,000	58,000	32,000	18,000	10,000
Total Revenues \$ 3,132,000	€	000'999 \$ 0	\$ 616,000	\$ 474,000 \$	\$ 2,607,000	\$ 186,000 \$	\$ 104,000 \$	\$ 000'89	32,000	\$ 18,000	\$ 10,000
Expenditures Transfer To/(From) Mgmnt & Monitoring Fund 866,00 Total Expenditures \$866,00	866,000 1,999,000 866,000 \$ 1,999,000	1,364,000	1,010,000	813,000 \$ 813,000 \$	643,000 \$ 643,000	1,625,000 \$ 1,625,000	\$ 000,906 \$	505,000	281,000 \$ 281,000	\$ 157,000 87,000 \$ 157,000 \$ 87,000	87,000 \$ 87,000
Net Cash Flow \$ 2,266,00	\$ 2,266,000 \$ (1,270,000) \$ (708,000) \$ (394,000) \$ (339,000) \$ 1,964,000 \$ (1,439,000) \$ (802,000) \$ (447,000) \$ (249,000) \$ (139,000) \$ (77,000)	(708,000)	\$ (394,000)	\$ (000'688) \$	1,964,000	\$ (1,439,000) \$	\$ (802,000) \$	(447,000) \$	(249,000)	\$ (139,000)	\$ (77,000
Ending Fund Balance \$ 3,997,00	\$ 3,997,000 \$ 2,727,000	\$ 2,019,000	\$ 1,625,000	\$ 2,019,000 \$ 1,625,000 \$ 1,286,000 \$ 3,250,000 \$ 1,811,000 \$ 1,009,000 \$	\$ 3,250,000	\$ 1,811,000	\$ 1,009,000 \$	562,000 \$		313,000 \$ 174,000 \$	\$ 97,000
Capacity to Fund Operating Fund (%)	12% 5.30%	3.69%	2.92%	2.23%	5.47%	2.95%	1.59%	0.86%	0.46%	0.24%	0.13%

Table A-3: Endowment Fund

FY Ending June 30 Plan Year	2033 25	2 034 26	2035 27	2036 28	2037 29	20	2038 30	2039 31	2040 32	2041 33	2042 34	2043 35	2044 36	2045 37	2046 38	39	2048 40	2049	2050 42	2051	- _
Beginning Fund Balance Revenues	\$ 97,000	\$ 97,000 \$ 54,000 \$ 30,000	\$ 30,000	0 \$ 17,000	000'6 \$ 00	69	5,000 \$	\$ 2,000 \$	\$ 1,000	69	(69	(63	69	1 69	1 69	69	1 69	69	69	69	
CVAG - Measure A	69	69	G	69	69	69	٠	,	1 69	, ()	ر ج	↔	€9	ر ج	↔	€9	69	\$9	↔	69	
Regional Infrastructure Mitigation (CVWD & IID)							,	•	•					'	'	•	•			,	ı
CVFTL HCP Endowment Fund	•	•		,				•	•	1	•	'	•	•	,	•	•				
CVAG/Caltrans	1	٠						•	•	•	,	,	•	٠	•	'					
Caltrans	'	1						•	•	•	,	,	•	•	•	•					ı
CVWD	1	•		,				1	•		,	٠	,	•	٠		•				
Local Development Mitigation Fee Revenue	1	•		,	ı			•	•	•	•	'	•	•	1	•		,			,
	1	ı					•	•	•	•	•	1	•	•	٠	•	•	•			,
Interest Earnings ¹	6,000	3,000	2,000	1,000	1,000	0	<u>'</u>	'	1	'	'	1	1		1	•					'
Total Revenues	\$ 6,000		\$ 2,000	0 \$ 1,000	000,1 \$ 000	\$	<i>₩</i>		₩	ا چ	ا ج	€9	69	ا د ی	٠ ده	ا ج	69	69	€9-	69	
Expenditures Transfer To/(From) Mgmnt & Monitoring Fund Total Expenditures	49,000 \$ 49,000	49,000 27,000 15,000 \$ 49,000 \$ 27,000 \$ 15,000	15,00 \$ 15,000	000'6 \$ 0	00 \$ 5,000 00 \$ 5,000	₩	3,000,8	1,000	1,000	· · · · · · · · · ·	ˈ ˈ •	اٰ ' چ	' ' •	ˈ ˈ •	' '	' '	٠ س	, ea	 ₩	 #	4.
Net Cash Flow	\$ (43,000)	\$ (24,000)	\$ (13,000	00'8) \$ (0	\$(43,000) \$(24,000) \$(13,000) \$ (8,000) \$ (4,000) \$ (3,000) \$ (1,000) \$ (1,000)	c) \$ (o	\$ (000'8	(1,000)	\$ (1,000)	- \$	ا دع	€9	· ⇔	· €9	· У	۱ دی	ω	&9	69	69 ₁	,
Ending Fund Balance	\$ 54,000	\$ 54,000 \$ 30,000 \$ 17,000	\$ 17,00	000'6 \$ 0	000'\$ \$ 000	69	2,000 \$	\$ 1,000	69.	69	69	69	69	69.	69.	69	· 63	69.	69	69.	1
Capacity to Fund Operating Fund (%)	0.07%	0.04%	0.02%	% 0.01%	% 0.01%		%00'0	%00.0	0.00%	0.00% 0.00% 0.00% 0.00% 0.00% 0.00%	0.00%	0.00%	, 0.00%	0.00%	0.00%	%00.0	%00.0	% 00:00 %	%00.0	% 0.00%	%

Table A-3: Endowment Fund (Nominal \$)

FY Ending June 30 2052	2052	2053	2054	_	2055	2056		2057	2058	2059	2060	2061	2062	2063	
Plan Year	44	45	46		47	48		49	50	51	52	53	54	55	
Beginning Fund Balance	69.	69	69,	69.	3,304,000	\$ 6,906,00	s 0	10,827,000	\$ 15,088,000	\$ 19,714,000	\$ 24,729,000	\$ 30,159,00	\$ 3,304,000 \$ 6,906,000 \$ 10,827,000 \$ 15,088,000 \$ 19,714,000 \$ 24,729,000 \$ 30,159,000 \$ 36,032,000 \$ 42,378,000	0 \$ 42,378,	000
CVAG - Measure A	s S	sэ	es	69	•	es	69	,	, &	s	· •	es	⇔	↔	ı
Regional Infrastructure Mitigation (CVWD & IID)	•	•			•		,	ı	•	•	•			,	
CVFTL HCP Endowment Fund	•	•	4		•			•	1	•	1		,	•	
CVAG/Caltrans	'	•			•		,	•	•	•	•		,		
Caltrans	•	•	•		•			•	r		•		r	1	
CVWD	•	•			•		,	•		•	•				
Local Development Mitigation Fee Revenue	1	•	- 3,304,	000'1	3,413,000	3,525,000	0	3,641,000	3,761,000	3,885,000	4,013,000	4,145,000	10 4,281,000	0 4,422,000	000
ind Interest Earnings ¹	<u>'</u>			' 	189,000	396,000	, ol	620,000	865,000	1,130,000	1,417,000	1,728,000	2,065,000		. 000
Total Revenues	ا د ه	s,	\$ 3,304,	000'	\$ 3,602,000	\$ 3,921,000	G	4,261,000	\$ 4,626,000	\$ 5,015,000	\$ 5,430,000	\$ 5,873,000	00 \$ 6,346,000	0 \$ 6,850,000	000
Expenditures Transfer To/(From) Mgmnt & Monitoring Fund	'	•		,	•			•	•	•	•				ı
Total Expenditures	Θ	س	es S	1 69		es	ss		· ·	် မ	ь В	es	ь	ь (-	['
Net Cash Flow	ا ج	sə	- \$ 3,304,	,000	\$ 3,602,000	\$ 3,921,00	\$	4,261,000	3,921,000 \$ 4,261,000 \$ 4,626,000 \$	\$ 5,015,000 \$	\$ 5,430,000	\$ 5,873,000	0 \$ 6,346,000	0 \$ 6,850,000	000
Ending Fund Balance	69.	69	- \$ 3,304,	000'	6,906,000	\$ 10,827,00	9	15,088,000	\$ 19,714,000	\$ 24,729,000	\$ 30,159,000	\$ 36,032,00	\$ 6,906,000 \$ 10,827,000 \$ 15,088,000 \$ 19,714,000 \$ 24,729,000 \$ 30,159,000 \$ 36,032,000 \$ 42,378,000	0 \$ 49,228,000	000
Capacity to Fund Operating Fund (%)	0.00%	0.00% 0.00%	2	30%	4.65%	7.06%	%	9.53%	12.07%	14.66%	17.32%	5 20.04%	% 22.83%		25.69%

Table A-3: Endowment Fund

Plan Year	FY Ending June 30 2064 Plan Year 56	2065 57	2066 58	2067 59	2068 60	2069 61	2070 62	2071 63	2072 64	2073 65	2074 66
Beginning Fund Balance	\$ 49,228,000	\$ 49,228,000 \$ 56,617,000	\$ 64,579,000	\$ 73,152,000	\$ 82,377,000 \$	92,296,000	\$ 102,955,000	\$ 114,401,000	64,579,000 \$ 73,152,000 \$ 82,377,000 \$ 92,296,000 \$ 102,955,000 \$ 114,401,000 \$ 126,685,000 \$ 139,862,000 \$ 153,989,000	139,862,000	\$ 153,989,000
CVAG - Measure A	ι 69	· •	О	9	9	•	, 6	· •	9	r	ι છ
Regional Infrastructure Mitigation (CVWD & IID) CVFTL HCP Endowment Fund						1 1					r a
CVAG/Caltrans	•	ľ	1	•	•	•	1	1	1	1	1
Caltrans CVWD		1 1					1 t			, ,	a r
Local Development Mitigation Fee Revenue	4,568,000	4,718,000	4,873,000	5,033,000	5,199,000	5,370,000	5,547,000	5,729,000	5,918,000	6,113,000	6,314,000
Interest Earnings ¹	2,821,000	3,244,000	3,700,000	4,192,000	4,720,000	5,289,000	5,899,000	6,555,000	7,259,000	8,014,000	8,824,000
Total Revenues	\$ 7,389,000	\$ 7,389,000 \$ 7,962,000	\$ 8,573,000	\$ 9,225,000	\$ 9,919,000 \$	\$ 10,659,000 \$	\$ 11,446,000	\$ 12,284,000	\$ 13,177,000 \$	\$ 14,127,000 \$	\$ 15,138,000
Expenditures Transfer To/(From) Mgmnt & Monitoring Fund	'	1	1	1	1	'	1	1	E	'	1
l otal Expenditures	99	·	· •	, Đ	99 1	1	1 2 0	; ; 2	÷A 1	1	· •
Net Cash Flow	\$ 7,389,000	\$ 7,389,000 \$ 7,962,000	\$ 8,573,000	\$ 9,225,000	\$ 9,919,000 \$	10,659,000	\$ 11,446,000	\$ 12,284,000	\$ 11,446,000 \$ 12,284,000 \$ 13,177,000 \$	\$ 14,127,000 \$	\$ 15,138,000
Ending Fund Balance	\$ 56,617,000	\$ 56,617,000 \$ 64,579,000	\$ 73,152,000	\$ 82,377,000	\$ 92,296,000 \$	102,955,000	\$ 114,401,000	\$ 126,685,000	73,152,000 \$ 82,377,000 \$ 92,296,000 \$ 102,955,000 \$ 114,401,000 \$ 126,685,000 \$ 139,862,000 \$ 153,989,000 \$ 169,127,000	153,989,000	\$ 169,127,000
Capacity to Fund Operating Fund (%)	28.62%	31.61%	34.68%	37.83%	41.06%	44.36%	47.75%	51.21%	54.76%	58.40%	62.13%

Table A-3: Endowment Fund (Nominal \$)

FY Ending June 30 Plan Year	2075 67	2076 68	2077 69	2078 70	2079 71	2080 72	2081 73	2082 74	2083 75	2009 - 2083 Total
Beginning Fund Balance	\$ 169,127,000	\$ 185,340,000	\$ 169,127,000 \$ 185,340,000 \$ 202,697,000 \$ 221,271,000 \$ 241,138,000 \$ 262,379,000 \$ 285,081,000 \$ 309,336,000 \$ 335,242,000	\$ 221,271,000	\$ 241,138,000	\$ 262,379,000	\$ 285,081,000	\$ 309,336,000	\$ 335,242,000	
Kevenues CVAG - Measure A	s	€9	· ·	· •	· ·	٠ ب	s	. ↔	9	\$ 8,181,000
Regional Infrastructure Mitigation (CVWD & IID)	•	•	1	•	•	•	•	•	•	1
CVFTL HCP Endowment Fund	1	ľ		•	1	•	•	•	•	•
CVAG/Caltrans	1	•	•	,	•	•	•	•	•	1,070,000
Caltrans	Ī	1	•	•	•	•	•	•	•	7,599,000
CVWD	1	1	,	,	r	•	•	•	1	3,951,000
Local Development Mitigation Fee Revenue	6,522,000	6,737,000	6,959,000	7,188,000	7,424,000	7,668,000	7,920,000	8,181,000	8,450,000	164,821,000 579.000
Interest Earnings ¹	9,691,000	10,620,000	11,615,000	12.679.000	13,817,000	15,034,000	16,335,000	17,725,000	19,209,000	200,666,000
Total Revenues	\$ 16,213,000	\$ 16,213,000 \$ 17,357,000	\$ 18,574,000	\$ 19,867,000	\$ 21,241,000	\$ 22,702,000	\$ 24,255,000	\$ 25,906,000	\$ 27,659,000	\$386,867,000
Expenditures Transfer To/(From) Mgmnt & Monitoring Fund	•	1	•	ı	,	ı	t	•	1	\$ 23,965,513
Total Expenditures	ь •	es.	· У	٠ ج	₩	€9	s	€	\$	\$ 23,965,513
Net Cash Flow	\$ 16,213,000	\$ 17,357,000	16,213,000 \$ 17,357,000 \$ 18,574,000	\$ 19,867,000	\$ 21,241,000	21,241,000 \$ 22,702,000 \$	24,255,000	\$ 25,906,000 \$	\$ 27,659,000	
Ending Fund Balance	\$ 185,340,000	\$ 202,697,000	\$ 185,340,000 \$ 202,697,000 \$ 221,271,000 \$ 241,138,000 \$ 262,379,000 \$ 285,081,000 \$ 309,336,000 \$ 335,242,000 \$ 362,901,000	\$ 241,138,000	\$ 262,379,000	\$ 285,081,000	\$ 309,336,000	\$ 335,242,000	\$ 362,901,000	
Capacity to Fund Operating Fund (%)	65.95%	69.85%	73.86%	77.96%	82.17%	86.47%	90.88%	95.40%	100.03%	

Table A-4: Monitoring Program Budget - (Nominal \$)

Dudget - (Nollillial ⊅)										1								
	Base	Ā	2009		2010	2011	8	2012	2013		2014	2015	2	2016		2017	7	2018
FY Ending June 30	Salary	Salary 1	-		2	23		4	2	ŀ	9	_		8		6		9
Personnel - All Species except sheep																		
Monitoring Program Admin (1)	100,000	\$ 100 000	66	64	1	65	U :		•	65	100 000	31	3 000 8	106 100	8	109 300	es.	112.600
ieor (1)		000,00	5	•	. 000 50			, כני סס	٠	, _	106,000	, 7	109 500	113.1	·	116 800	٠	20,600
	000,00	000,00	2 6		2 2	20,00	•	000	20,00		1,000	2 '		2 6	3 8	20,00		000,01
Entomologist (1 @ 0.5)	80,000	40,000	40,0		41,300	42,700	•	44,100	45,600		47,100	T (8,600	002,06	3 3	008,10		009,55
Associate Biologist (1)	80,000	80,000	80,0		2,600	85,300	~	88,100	91,000	_	94,000	Οĵ	7,100	100,3	8	103,600		000,701
Biologist - Mammalogy (1@0.5)	70,000	35,000	35,000		36,200	37,400	.,	38,600	39,900	_	41,200	4	42,600	44,000	8	45,400		46,900
Biologist - Ornithology (1-2@0.5)	70,000	70,000	0,07		72,300	74,700		77,200	79,700	_	41,150	4	42,500	43,900	8	45,300		46,800
Seasonal Aide - Ornithology (1(@0.5)	30,000	15,000	15,0		5,500	16,000	•	16,500	17,000	_	17,600	_	18,200	18,800	8	19,400		20,000
Seasonal Aide (4-5@0.75)	30,000	112,500	112,500	_	116,200	120,000	72	123,900	128,000	_	93.000	01	96,100	99,300	8	102,600	•	000'90
Personnel - Sheen and Trails																		
Seasonal Aide (3@0 75)	30.000		\$ 67.5	G.		22 000	(74 400 \$		65	79.300	6	81.900	84 600	\$	87 400	v:	90.300
Graduate Researcher	80,000	24 000	24,000	٠	24,000			24 000	24 000									
Sheep - Monitoring		i i	!		:	-	ļ.											
Dococood		000	50,000	и	51 600	4 53 300	u	55 100 B	26 900	¥	28 800	4	\$ 002.09	007 29	8	64 800	¥	66 900
Personnel - Data Analysis				∍							20,00					6		,
GIS Analyst (1 @ 0.5)	80,000	40,000	\$ 40,000	€9		\$ 42,700	€	44,100 \$	45,600	69	47,100	8	48,600 \$		8	51,900	69	53,600
GIS Technician (1 @ 0.5)	70,000	35,000	35,000	1	36,200	37,400		38,600	39,900		41,200	4	2,600	44,000	 ଧ	45,400	ļ	46,900
Personnel Subtotal			\$ 659,000		\$678,800	\$701,600	\$	723,900 \$	\$ 747,000	s	766,450	\$ 75	791,400 \$	\$ 817,200	8	843,800	s	871,200
One-time Cost Items							,	,		,		,	,		•		,	
Revise/Update Natural Communities Map			\$ 100,000	9	1	ı	.,	•		19		.,	: D		دی	•	(9	
Eauipment and Supplies																		
Satellite/Aerial Imagery			\$ 15,0	\$ 00	3,000	3,100	€9	3,200 \$		69	3,400	€9	3,500 \$		8	3,700	s	3,800
Sampling Gear			15,0		5,500	16,000		5,000	5,200	_	5,400		5,600	5,8	8	6,000		6,200
Transect Set-up & Maintenance			5,0	5,000	5,200	5,400		5,600	5,800	_	1,000		1,000	1,000	8	1,000		1,000
Radio-tracking Equipment			3,0		009	620		640	999		680		700	7.	8	740		200
Other Supplies			5,0	5,000	1,000	1,030		1,060	1,090	_	1,130		1,170	1,210	9	1,250		1,290
Weather Stations (3)			9'0	000'9	200	210		220	230		240		250	56	8	270		280
Vehicle Costs			18,400		19,000	19,600	•	20,200	20,900	_	21,600	C/	22,300	23,000	8	23,800		24,600
Sheep Monitoring		65,000	65,000		67,100	69,300		71,600	74,000	_	76,400	7	78,900	81,500	8	84,200		87,000
Sheep Monitoring/Research	120,000	48,000	48,000	1	49,600	51,200		52,900	54,600		,		'		ا.			'
											;						,	
Equipment Subtotal			\$ 180,400		\$161,200	\$166,460	-	160,420 \$	165,780	()	109,850	÷	113,420 \$	117,090	90	120,960	€9	124,930
Subtotal - Estimated Cost			\$ 939,400			\$ 868,060	↔	884,320	912,780	69	876,300		4,820 \$	934,29		964,760	69	96,130
10% Contingency			\$ 93,940		\$ 84,000	\$ 86,806	↔	88,432	91,278	€9	87,630	න භ	90,482 \$	93,429	29 8	96,476	↔	99,613
Total - Estimated Cost			\$1,033,000		\$924,000	\$955,000	6	973,000 \$	\$ 1,004,000	₩	964,000	96 \$	\$ 000'566	\$ 1,028,000		\$ 1,061,000		\$ 1,096,000

¹ This selary includes benefits, worker' compensation, 10% administrative overhead.

Source: Coechelle Valley Mountain Conservancy; Willdan Financial Services.

Table A-4: Monitoring Program Budget - (Nominal \$)

Budget - (Nominal \$)					ĺ												
	2019		2020	2021	2022	52	2023	2024	•	2025	2026	2027	2028	20	2029	2030	2031
FY Ending June 30	1		12	13	14		15	16		17	18	19	50	,7	21	22	23
Personnel - All Species except sheep																	
Monitoring Program Admin (1)	\$ 116,000	\$ 000	119,500 \$	123,100	\$ 12	\$ 008'9	130,600	\$ 134,500	\$ 000	138,500	142,700	\$ 147,000	\$ 151,400		155,900 \$	160,600 \$	165,400
Vertebrate Ecol - Field Supervisor (1)	124,600	900	128,700	132,900		137,300	141,800	146,500	000	151,300	156,300	161,400	166,700	•	172,200	177,900	183,800
Entomologist (1 @ 0.5)	55,	55,400	57,200	59,100		1,000	63,000	65,100	8	67,200	69,400	71,700	74,100		76,500	79,000	81,600
Associate Biologist (1)	110,	10,500	114,100	117,900		121,800	125,800	129,900	80	134,200	138,600	143,200	147,900		152,800	157,800	163,000
Biologist - Mammalogy (1@0.5)	48,	48,400	50,000	51,600		53,300	55,100	56,9	00	58,800	60,700	62,700	64,80		66,900	69,100	71,400
Biologist - Ornithology (1-2@0.5)	48,	48,300	49,900	51,500		53,200	55,000	56,800	00	58,700	60,600	62,600	64,700		66,800	000'69	71,300
Seasonal Aide - Ornithology (1@0.5)	20,	20,700	21,400	22,100	7	2,800	23,600	24,4	9	25,200	26,000	26,900	27,80		28,700	29,600	30,600
Seasonal Aide (4-5@0.75)	109,	005,601	113,100	116,800	12	120,600	124,600	128,700	90	132,900	137,300	141,800	146,500		51,300	156,300	161,400
Personnel - Sheep and Trails																	
Seasonal Aide (3@0.75)	\$ 93,	93,300 \$	96,400 \$	009'66 9	\$	102,900 \$	106,300	\$ 109,800	\$ 00	113,400 §	\$ 117,100	\$ 121,000	\$ 125,000	G)	129,100 \$	133,300 \$	137,700
Graduate Researcher																	
Sheep - Monitoring																	
Personnel	.69	69,100 \$	71,400 \$	73,700	69	76,100 \$	78,600	\$ 81,200	\$ 00	83,900 \$	86,700	\$ 89,600	\$ 92,500	G	\$ 005,500	8 009'86	101,800
Personnel - Data Analysis																	
GIS Analyst (1 @ 0.5)	\$ 55.	55,400 \$	57,200 \$	\$ 59,100	69	61,000 \$	63,000	\$ 65,100	\$ 00	67,200	\$ 69.400	\$ 71,700	\$ 74,100	G	76.500 \$	79,000 \$	81.600
GIS Technician (1 @ 0.5)		48,400	50,000	51,600			55,100		00	58,800	60,700	62,700			006'99		
Doronnol Cultotal	008 800	# #	•	000 020 8	6	00100	4 1 022 500	\$ 1 055 800		-	4 125 500	4 182 300	4 1 200 300	4		\$ 1270300 \$	4 324 000
reisonnei subtotat			000				1,022,300	oʻccoʻ- •				1,104,500	Je,002,1 ¢				000,126,1
One-time Cost Items																	
Revise/Update Natural Communities Mal \$	s s	69	1		s s	⊕ '	•	⇔	⇔ '	,	· ·	· &	ь	€ 9	⇔ 1	€Đ I	•
Equipment and Supplies								,	;					•		1	
Satellite/Aerial Imagery	es es	\$ 006'8		\$ 4,100	69	4,200 \$	4,300	4,4	4,400 \$	4,500 \$	4,600	\$ 4,800	\$ 2,000	S	5,200 \$	5,400 \$	5,600
Sampling Gear	ý	6,400	009'9	6,800		2,000	7,200	7,400	8	2,600	7,900	8,200	8,500	2	8,800	9,100	9,400
Transect Set-up & Maintenance	-	1,000	1,000	1,000		1,000	1,000	0,	8	1,000	1,000	1,000	1,00	2	1,000	1,000	1,000
Radio-tracking Equipment		790	820	850		880	910	o o	940	970	1,000	1,030	1,060	8	1,090	1,130	1,170
Other Supplies	-	1,330	1,370	1,420		1,470	1,520	<u>ر</u> ئ	1,570	1,620	1,670	1,720	1,780	<u>چ</u>	1,840	1,900	1,960
Weather Stations (3)		290	300	310		320	330	r)	5	320	360	370	380	8	390	400	410
Vehicle Costs	25,	25,400	26,200	27,100	8	28,000	28,900	29,900	9	30,900	31,900	32,900	34,000		35,100	36,300	37,500
Sheep Monitoring	89,6	89,900	92,900	96,000	6	99,200	102,500	105,900	80	109,400	113,000	116,700	120,500	,	124,500	128,600	132,800
Sheep Monitoring/Research		 	'	1		' 			 	•	*	'			 	'	î
Equipment Subtotal	\$ 129,010	010 \$	133,190 \$	137,580	\$ 14	142,070 \$	146,660	\$ 151,450	€9	156,340 \$	161,430	\$ 166,720	\$ 172,220	€9	177,920 \$	183,830 \$	189,840
Subtotal - Estimated Cost 10% Contingency	\$ 1,028,610 \$ \$ 102,861 \$	610 \$ 1 361 \$	\$ 1,062,090 \$ \$ 106,209 \$	1,096,580	\$ 1,132,170 \$ 113,217	3,217 \$	1,169,160 116,916	\$ 1,207,250 \$ 120,725	& & _	,246,440 § 124,644 §	1,286,930	\$ 1,329,020 \$ 132,902	\$ 1,372,520 \$ 137,252	& &	1,417,020 \$	1,463,130 \$ 146,313 \$	1,510,840 151,084
			:														
Total - Estimated Cost	\$ 1,131,	\$ 1,131,000 \$ 1,168	000,	\$ 1,206,000	\$ 1,245,000		\$ 1,286,000	\$ 1,328,000		\$ 1,371,000 \$	\$ 1,416,000	\$ 1,462,000	\$ 1,510,000		\$ 1,559,000 \$	\$ 1,609,000 \$	\$ 1,662,000

Table A-4: Monitoring Program Budget - (Nominal \$)

pager - (nominal a)													
	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044
FY Ending June 30	24	25	26	27	28	29	30	31	32	33	34	35	36
Personnel - All Species except sheep													
Monitoring Program Admin (1)	\$ 170,400	\$ 175,500	\$ 180,800	\$ 186,200	\$ 191,800	69	\$ 203,500 \$	209,600 \$	215,900 \$	222,400	\$ 229,100 \$	236,000 \$	243,100
Vertebrate Ecol - Field Supervisor (1)	189,800	196,000	202,400	209,100	216,000	223,100	230,400	238,000	245,800	253,900	262,300	270,900	279,800
Entomologist (1 @ 0.5)	84,300	87,100	90,000	93,000	96,100		102,600	106,000	109,500	113,100	116,800	120,600	124,600
Associate Biologist (1)	168,400	173,900	179,600	185,500	191,600		204,400	211,100	218,000	225,200	232,600	240,300	248,200
Biologist - Mammalogy (1@0.5)	73,700	76,100	78,600	81,200	83,900		89,600	92,500	95,500	98,600	101,800	105,100	108,600
Biologist - Ornithology (1-2@0.5)	73,600	76,000	78,500	81,100	83,800		89,400	92,300	95,300	98,400	101,600	104,900	108,400
Seasonal Aide - Ornithology (1@0.5)	31,600	32,600	33,700	34,800	35,900	37,100	38,300	39,600	40,900	42,200	43,600	45,000	46,500
Seasonal Aide (4-5@0.75)	166,700	172,200	177,900	183,800	189,800	196,000	202,400	209,100	216,000	223,100	230,400	238,000	245,800
Personnel - Sheep and Trails													
Seasonal Aide (3@0.75)	\$ 142,200	\$ 146,900	\$ 151,700	\$ 156,700	\$ 161,900	\$ 167,200	\$ 172,700 \$	178,400 \$	184,300 \$	190,400	\$ 196,700 \$	203,200 \$	209,900
Graduate Researcher													
Sheep - Monitoring													
Personnel	\$ 105,100	\$ 108,600	\$ 112,200	\$ 115,900	\$ 119,700	\$ 123,600	\$ 127,700 \$	131,900 \$	136,200 \$	140,700	\$ 145,300 \$	150,100 \$	155,000
Personnel - Data Analysis													
GIS Analyst (1 @ 0.5)	\$ 84,300	\$ 87,100	\$ 90,000	\$ 93,000	\$ 96,100	\$ 99,300	\$ 102,600 \$	106,000 \$	109,500 \$	113,100	\$ 116,800 \$	120,600 \$	124,600
GIS Technician (1 @ 0.5)		-	78,600	81,200	83,900		89,600	92,500	95,500	98,600	101,800		108,600
Personnel Subtotal	\$ 1.363,800	\$ 1.4	\$ 1.454.000	\$ 1,501,500	\$ 1.550.500	\$ 1.601.100	\$ 1.653.200 \$	\$ 1.707.000 \$	\$ 1.762.400 \$	\$ 1.819.700	\$ 1.878,800 \$	1.939.800 \$	2.003.100
		: :	1 7										
One-time Cost Items													
Revise/Update Natural Communities May \$	· •	•	СЭ	· &>	٠ ن	· ·	€9 -	₽	1	1	1	€ 5)	•
Fouribment and Supplies													
Satellite/Aerial Imagery	\$ 5.800	8.000	\$ 6.200	\$ 6.400	8 6.600		\$ 7,000 \$	7,200 \$	7.400 \$		\$ 006.7	8.200 \$	8.500
Sampling Gear		٦	-	10,600	10.900	11,300	11,700		12.500	12.900	13,300	13.700	14 200
Transfer of the state of the st	2 6	000	200,4	000,1	200,5	000,1		7 200	000	2000	4,000	2000	000
I ransect Set-up & Maintenance	000,1	000,1	000'1.	000,1	000,	000,1	000,1	000,	000,1	000,1	000,1	000,	,000
Kadio-tracking Equipment	01.7,1	007,1	087'I	DSC,-	0.00	1,42U	0/4/	026,1	0/0,1	1,620	0/0'	1,720	,,
Other Supplies	2,020	2,090	2,160	2,230	2,300	2,380	2,460	2,540	2,620	2,710	2,800	2,890	2,990
Weather Stations (3)	420	430	440	450	460		480	490	200	520	540	260	280
Vehicle Costs	38,700	40,000	41,300	42,700	44,100		47,100	48,600	50,200	51,900	53,600	55,400	57,200
Sheep Monitoring	137,200	141,700	146,400	151,200	156,200	161,300	166,600	172,100	177,800	183,600	189,600	195,800	202,200
Sheep Monitoring/Research		1	•	t	'		1	-		1		1	1
For inment Subtotal	496.050	\$ 202.470	\$ 209.090	215 910	022 930	\$ 230.270	\$ 237.840 \$	245 550 \$	253 590 \$	261 850	\$ 270.410 \$	\$ 079.270	288 450
	2	•	•	2	50,11	2 1 2 2	20.01	2000	2000	2		9	20,100
Subtotal - Estimated Cost	\$ 1,559,850	·	\$ 1,663,090	\$ 1,717,410	\$ 1,773,430	\$1,831,370	\$ 1,891,010 \$	1,952,550 \$			\$2,149,210 \$	2,219,070 \$	2,291,550
10% Contingency	\$ 155,985	\$ 161,057	↔	\$ 171,741	\$ 177,343		\$ 189,101 \$	195,255 \$	201,599 \$	208,155	\$ 214,921 \$	221,907 \$	229,155
Total - Estimated Cost	\$ 1716,000	\$ 1 772 000	4 4 829 000	4 889 000	\$ 1 951 000	\$2045000	\$ 208000	\$ 2 148 000 \$	\$ 2218 000 \$	\$ 2290 000	\$2364000 \$	\$ 2 441 000 \$	\$ 2521000
lotal - Establated Cost	200,0	•	000,000,1	000,500,1	200,100,1	00000							2,24,1,000

Table A-4: Monitoring Program Budget - (Nominal \$)

Budget - (Nominal \$)																						
	2045	2	2046	2047		2048	2049	0	2050		2051		2052	2053	33	2054		2055	•	2056	8	2057
FY Ending June 30	37	"	38	39		40	4		42		43	ŀ	44	45		46		47		48		49
Personnel - All Species except sheep																						
Monitoring Program Admin (1)	\$ 250.400	69	57,900	\$ 265,600	8	273,600	G	8008	3 290.3	8 00	299,000	69	308,000	3	7,200 9	326.7	s oc	336.500	G	346,600	69	357,000
Vertebrate Ecol - Field Supervisor (1)			298,500	308,30	. 0	318,400		328,900	339,700	8	350,90		362,400	3,	374,300	386,600	8	399,300		412,400		426,000
Entomologist (1 @ 0.5)	128,700		132,900	137,300	0	141,800		200	151,3	8	156,300	_	161,400	16	166,700	172,2	8	177,900		183,800	,-	008,681
Associate Biologist (1)	256,400	.,	264,800	273,500	0	282,500		291,800	301,400	00	311,300	_	321,500	8	332,100	343,000	8	354,300		366,000	٠,	378,000
Biologist - Mammalogy (1@0.5)	112,200	•	115,900	119,700	0	123,600	127	127,700	131,900	00	136,200	_	140,700	14	145,300	150,100	8	155,000	_	160,100	,-	165,400
Biologist - Ornithology (1-2@0.5)	112,000	•	115,700	119,500	0	123,400	127	,500	131,700	8	136,000	_	140,500	14	145,100	149,900	8	154,800	_	159,900	•	165,200
Seasonal Aide - Ornithology (1@0.5)	48,000		49,600	51,200	0	52,900	70	54,600	56,400	00	58,300	_	60,200	Ψ	62,200	64,200	8	66,300		68,500		70,800
Seasonal Aide (4-5@0.75)	253,900	8	62,300	270,900	0	279,800	285	289,000	298,500	8	308,300	_	318,400	88	328,900	339,700	00	350,900	_	362,400	(.,	374,300
Personnel - Sheep and Trails																						
Seasonal Aide (3@0.75)	\$ 216,800	s	23,900	\$ 231,300	9	238,900	\$ 246	246,800 \$	\$ 254,900	8	263,300	\$	272,000	\$ 28	280,900	\$ 290,100	\$ 00	299,600	€9	309,500	€9	319,700
Graduate Researcher																						
Sheep - Monitoring																						
Personnel	\$ 160,100	φ.	65,400 (\$ 170,800	\$	176,400	\$ 182	182,200 (\$ 188,200	\$ 00	194,400	es	200,800	\$ 20	207,400 \$	214,200	\$	221,200	€9	228,500	€9	236,000
Personnel - Data Analysis																						
GIS Analyst (1 @ 0.5)	\$ 128,700	8	32,900	\$ 137,300	es 0	141,800	\$ 146	146,500	\$ 151,300	\$ 00	156,300	\$	161,400	\$ 16	166,700 \$	172,200	\$ 00	177,900	69	183,800	φ,	189,800
GIS Technician (1 @ 0.5)	112,200		15,900	119,700	0	123,600	127	127,700	131,900	8	136,200		140,700	14	145,300	150,100	00	155,000		160,100	,	165,400
Personnel Subtotal	\$ 2,068,400	\$ 2,1	35,700	\$ 2,205,100		\$ 2,276,700	\$ 2,351,000		\$ 2,427,500	₩	2,506,500	↔	2,588,000	\$ 2,67	2,672,100	\$ 2,759,000	₩	2,848,700	\$	941,600	\$ 3,0	3,037,400
One-time Cost Items Revise/Update Natural Communities Ma _l	. ↔	49	,	€	€9	•	₩	1	€9	⇔		€9	,	€9	()		↔	•	G	•	s	
Equipment and Supplies			0	,	6	0	6	9	2	6	0	•	0	•		i	6	3	•		6	0
Satelite/Aerial Imagery	0,800	Ð	001	3,400	,	9,700	9	000'01	10,300	# 3	10,000	,	10,900	- -	11,300	00,11	ه ۲	12,100	A	00c,21	Ð	12,900
Sampling Gear	14,700	_	15,200	15,700	0	16,200	5	16,700	17,200	8	17,800	_	18,400	_	9,000	19,6	8	20,200		20,900		21,600
Transect Set-up & Maintenance	1,000		1,000	7,00	0	1,000	_	1,000	1,000	8	1,00	_	1,000		1,000	1,000	8	1,000		1,000		1,000
Radio-tracking Equipment	1,840	_	1,900	1,960	0	2,020		2,090	2,160	90	2,230	_	2,300		2,380	2,4	စ္က	2,540		2,620		2,710
Other Supplies	3,090	_	3,190	3,25	0	3,400	(1)	3,510	3,6	30	3,75(_	3,870		4,000	4,130	8	4,270		4,410		4,560
Weather Stations (3)	009		620	640	0	999		089	~	200	720	_	740		260	780	20	800		820		840
Vehicle Costs	59,100		61,000	63,000	0	65,100	67	67,200	69,400	8	71,700	_	74,100	7	76,500	79,000	8	81,600		84,300		87,100
Sheep Monitoring	208,900	0	15,800	222,900	0	230,200	237	237,800	245,600	8	253,700	_	262,000	27	270,600	279,500	8	288,700		298,200	.,	308,000
Sheep Monitoring/Research	ī		'			1				•			•				ι					1
Equipment Subtotal	\$ 298,030	es es	07,810	\$ 317,890	es O	328,280	338	338,980	\$ 349,990	9 8	361,500	89	373,310	& &	385,540 \$	\$ 398,170	\$ 02	411,210	€9	424,750	69	438,710
Subtotal - Estimated Cost 10% Contingency	\$ 2,366,430 \$ 236,643	\$ \$ 5,'	443,510 3	\$ 2,522,990 \$ 252,299	ശ ശ	2,604,980 260,498	\$ 2,689,980 \$ 268,998		\$ 2,777,490 \$ 277,749	⇔ ↔	2,868,000 286,800	es es	2,961,310 296,131	\$ 3,08 \$	3,057,640 § 305,764 §	\$ 3,157,170 \$ 315,717	⇔ ↔	3,259,910 325,991	9 9	3,366,350 336,635	9 9	3,476,110 347,611
Total - Retimated Cost	\$ 2 603 000	٠	000 88	000 577 6 \$	U	2 865 000	000 850 000		\$ 2055,000	e	3 155 000	¥	3 257 000	4 3 363 000		0 3 473 000	e	3 586 000	e	3 703 000	4	\$ 2824.000
	4,000,000 4,000,000,000	, P	000,00	7,011,2	9	200,000,				9	7,177,6	9	200,162	o o		5,5	9	2,000,000,0	9	200,500	o e	2000,470

Table A-4: Monitoring Program Budget - (Nominal \$)

Budget - (Nominal \$)														
	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071
FY Ending June 30	50	51	52	53	54	55	56	57	58	59	09	61	62	83
deep		1			6	6	6	6	6		6	2.00	6	2
Monitoring Program Admin (1)	367,700 \$	378,700 \$	390,100 \$	\$ 008,104	413,900 \$	426,300 \$	439,100 \$	452,300 \$	465,900 \$	479,900 \$	494,300 \$	\$ 001,505	524,400 \$	540,100
Fotomologist (1 @ 0 4)	196,000	202,400	209,200	216,000	223,100	230,400	238,000	245 800	253,900	262,300	270 900	279 800	289,000	298 500
Associate Biologist (1)	390,400	403,200	416.500	430,200	444,400	459,000	474.100	489.700	505,800	522.400	539.600	557.400	575.700	594.600
Biologist - Mammalogy (1@0.5)	170,800	176,400	182,200	188,200	194,400	200,800	207,400	214,200	221,200	228,500	236,000	243,800	251,800	260,100
Biologist - Ornithology (1-2@0.5)	170,600	176,200	182,000	188,000	194,200	200,600	207,200	214,000	221,000	228,300	235,800	243,600	251,600	259,900
Seasonal Aide - Ornithology (1@0.5)	73,100	75,500	78,000	80,600	83,300	86,000	88,800	91,700	94,700	97,800	101,000	104,300	107,700	111,200
Seasonal Aide (4-5@0.75)	386,600	399,300	412,400	426,000	440,000	454,500	469,500	484,900	500,900	517,400	534,400	552,000	570,200	589,000
<u>siis</u>														
Seasonal Aide (3@0.75) \$	330,200 \$	341,100 \$	352,300 \$	363,900 \$	375,900 \$	388,300 \$	401,100 \$	414,300 \$	427,900 \$	442,000 \$	456,500 \$	471,500 \$	487,000 \$	503,000
Graduate Researcher														
Sheep - Monitoring														
Personnel \$	243,800 \$	251,800 \$	260,100 \$	268,700 \$	277,500 \$	286,600 \$	296,000 \$	305,700 \$	315,800 \$	326,200 \$	336,900 \$	348,000 \$	359,400 \$	371,200
Personnel - Data Analysis														
Cic Analyset (1 @ 0 E)	106 000 \$	300 400 &	200100	218,000 8	223 100 \$	230,400 &	\$ 000 866	3 008 370	252 000 \$	\$ 005 696	\$ 000,076	\$ 008 076	\$ 000 080	202 500
3		176 400												260,100
		10,400	1.			1	1	1.		ŀ	1		ŀ	200,100
Personnel Subtotal	\$ 3,136,000 \$	3,237,900	\$ 3,343,500 \$	3,452,500 \$	3,565,100 \$	3,681,100 \$	3,801,000 \$	3,924,600 \$ 4	4,052,400 \$ 4	4,184,600 \$ 4	4,320,700 \$ 4	4,461,500 \$ 4	4,606,700 \$ 4	4,756,700
One-time Cost Items	•		•	•	•	•	•	•		•	•	•	•	
Revise/Update Natural Communities May \$	1	1	:0	•	1	1	ı	1	1	<i>y</i> ∌ 1	,	1	·	•
Equipment and Supplies	13 300 \$	13 700 \$	14 200 \$	14 700 \$	15 200 \$	15 700 \$	16 200 \$	16 700 \$	17 200 \$	17 800 \$	18 400 \$	19,000	19 600	20 200
		23,700		007,5	25,400	\$ 007.85	27 400	9000	002,11	900,4	2000	31,000		37,000
Topogot Dot 9 Maintaine	44,000	4,000	42,000	2000	20,400	40,400	7,100	4,000	2000,7	200.00	200,000	26,5	200,40	200,4
Dodio tropico Estimanos	000,	000,	000,-	000,	000,	000	900,	2,00	000,1	750	000,-	000,	7,000	000,1
Other Stradion	2,000	7,030	2,330	00,4	081.0	0,730	, 400 4 500 4 500 500 500 500 500 500 500 500 500 500	0.00	9,000	000	0,0	1,000	, t	1,470
Other Supplies	1,10	000	020,6	06-16	000	0,040	3,720	2,910	4,100	0,300	0,010	0,720	0,940	7,70
Weather Stations (3)	0.00	000	930	000	990	1,020	1,050	1,000	1,110	-,-	1,170	1,410	000,000	087,1
verlide Costs	000,08	000,000	96,100	000,88	102,000	000,000	000,000	113,100	110,000	120,000	124,000	120,700	132,900	000,751
Sheep Monitoring	318,100	328,600	339,400	320,600	362,100	374,000	386,300	388,000	412,100	425,700	439,700	454,200	469,100	484,500
Sheep Monitoring/Research		1	 	1	 	1	1	 	 		1	1	1	1
Equipment Subtotal	453,080 \$	467,950 \$	483,440 \$	499,440 \$	515,840 \$	532,750 \$	550,270 \$	568,300 \$	586,840 \$	606,190 \$	626,150 \$	646,730 \$	667,820 \$	689,730
a too betomited letertuio	000 003 6	3 775 957 6	0000000	0001000	9 000 000 0	040 0E0 @	4 2E4 270 &	6	. 9 000 000 0	6	T 0 0 0 0 0 0 0 0	6	274 E20 @ E	067 377 3
	\$ 358,908 \$	\$ 370,585 \$	\$ 382,694 \$	395,194 \$	408,094 \$	•	• •	449,290 \$	•	479,079 \$	•	510,823 \$	9 €9	544,643
Total - Estimated Cost	\$ 3.948.000 \$	\$ 4.076.000 \$	\$ 4.210.000 \$	\$ 4.347,000 \$	\$ 4 489 000 \$	\$ 4635.000 \$	\$ 4786,000 \$ 4	\$ 4.942 000 \$ 5	5 103 000 \$ 5	\$ 5270,000 \$ 5	\$ 5 442 000 \$ 5	\$ 5619000 \$	\$ 5802 000 \$ 5	\$ 5 991 000
	h poplarala				- 1	1		,				- 1		200,100,1

Table A-4: Monitoring Program Budget - (Nominal \$)

	Ì													
2072	۳ °	173 5	2074	2075		2076 68	2077	2078	2079	2080	2081	••	2082 74	2083 75
		2												
\$ 556,300	69	73,000 \$	590,200	06'209 \$	8	626,100	\$ 644,900	\$ 664,200	\$ 684,100	\$ 704,600	69	\$	747,500 \$	769,900
692,600		15,400	738,900	763,20	0	788,300	814,200	841,000	868,700	897,300		8	957,300	988,800
308,300		18,400	328,900	339,70	0	350,900	362,400	374,300	386,600	399,300		8	426,000	440,000
614,200		34,400	655,300	676,90	0	699,200	722,200	746,000	770,500	795,800		8	849,000	876,900
268,700		77,500	286,600	296,00	0	305,700	315,800	326,200	336,900	348,000		8	371,200	383,400
268,500		77,300	286,400	295,80	0	305,500	315,600	326,000	336,700	347,800		8	371,000	383,200
114,900		18,700	122,600	126,60	0	130,800	135,100	139,500	144,100	148,800		8	158,800	164,000
608,400	_	28,400	649,100	670,50	0	692,600	715,400	738,900	763,200	788,300		8	841,000	868,700
\$ 519,500	co	36,600 \$	554,300		\$	591,300 \$	610,800	\$ 630,900			\$ 695,2(\$ 00	718,100 \$	741,700
\$ 383,400	↔	\$ 000'96	409,000		\$	436,400 \$	450,800	\$ 465,600	\$ 480,900	\$ 496,700	\$ 513,0	\$ 8	\$ 006'629	547,300
\$ 308,300	69	18.400 \$			\$			\$ 374,300	\$ 386,600	\$ 399,300	\$ 412,4	\$ 00	426,000 \$	440,000
268,700		77,500	286,600	296,00		305,700	315,800	326,200	336,900	348,000	359,4(. 8	371,200	383,400
\$ 4,911,800	8	₩	5,236,800	\$ 5,407,30	↔	5,583,400	\$ 5,765,400	\$ 5,953,100	\$ 6,146,900	\$ 6,347,000	\$ 6,553,40	4	\$ 000,797	6,987,300
		•		:										
Revise/Update Natural Communities May \$	⇔	⇔ '	,	4 A	69	1	•	€9	s	ı €9	⇔	\$	() 1	•
\$ 20,900	↔	21,600 \$	22,300	\$ 23,00	\$	23,800 \$		\$ 25,400	\$ 26,200	\$ 27,100	€9	\$ 00	28,900 \$	29,900
35,100		36,300	37,500	38,70	0	40,000	41,300	42,700	44,100	45,600		8	48,600	50,200
1,000		1,000	1,000	1,00	0	1,000	1,000	1,000	1,000	1,000		8	1,000	1,000
4,410		4,560	4,710	4,86	0	5,020	5,190	5,360	5,540	5,720		10	6,100	6,300
7,410		7,650	7,900	8,16	0	8,430	8,710	000 '6	6 ,300	9,610	66	30	10,260	10,600
1,330		1,370	1,410	1,45	0	1,490	1,530	1,580	1,630	1,680	1,7,	8	1,780	1,830
141,800	•	46,500	151,300	156,30	0	161,400	166,700	172,200	177,900	183,800	189,8(8	196,000	202,400
500,400		16,900	533,900	551,50	0	269,600	588,300	607,700	627,700	648,400	669,7	8	691,700	714,500
		<u> </u> 	1			i	1					 	1	•
\$ 712,350	€9	35,880 \$	760,020	784,97	\$	810,740 \$	\$ 837,330	\$ 864,940	\$ 893,370	\$ 922,910	\$ 953,1	\$ 02	984,340 \$	1,016,730
\$ 5 624 150	er er	4	5 996 820	\$ 6 192 27	ď	3394 140 9	6 602 730	\$ 6.818.040	U	7 269 910	4	4	751.340 \$	8 004 030
\$ 562,415	→ ↔	↔	599,682	619,22	₩.	639,414 \$	\$ 660,273	\$ 681,804	↔	\$ 726,991	↔	↔	775,134 \$	800,403
	↔			\$ 6,811,00				\$ 7,500,000		000'266'2 \$				\$ 8,804,000
	٠	- 1			- 1				ŀ		- 1			
	\$ 556,300 692,600 908,300 614,200 288,700 614,200 614,200 614,200 614,200 614,200 614,200 614,200 614,200 614,200 614,200 614,200 614,11,800 85,112,350 614,15	2072 64 64 656.300 \$ 692,600 308,300 614,200 268,700 608,400 608,400 608,400 608,400 608,400 608,400 608,400 608,400 7,14,900 7,410	2072 2073 64 65 656,300 \$ 573,000 \$ 692,600 308,300 715,400 \$ 694,400 614,200 634,400 634,400 268,700 277,500 277,500 114,900 628,400 \$ 628,400 608,400 628,400 \$ 277,500 519,500 \$ 396,000 \$ 383,400 519,500 \$ 318,400 \$ 268,700 268,700 \$ 318,400 \$ 36,300 1,000 1,000 \$ 1,000 1,000 1,000 \$ 4,911,800 1,000 1,370 \$ 6,000 1,330 1,370 \$ 6,000 1,330 1,41,800 \$ 6,000 500,400 516,900 \$ 5,000 562,415 \$ 6,386,000 \$ 6,386,000 6,187,000 \$ 6,386,000 \$ 6,386,000	2072 2073 2074 656,380 \$ 573,000 \$ 590,200 692,600 715,400 738,900 308,300 318,400 738,900 614,200 634,400 555,300 268,500 277,500 286,600 268,500 277,500 286,400 114,900 628,400 649,100 608,400 628,400 649,100 519,500 \$ 536,600 \$ 554,300 268,700 \$ 288,600 \$ 564,300 268,700 \$ 21,600 \$ 523,800 268,700 \$ 5,071,600 \$ 5,236,800 36,100 \$ 5,071,600 \$ 5,236,800 4,911,800 \$ 5,071,600 \$ 5,236,800 1,000 1,370 1,410 7,410 7,550 7,500 1,330 1,370 1,410 1,41,600 \$ 1,370 1,410 1,330 1,370 1,410 1,41 7,550 7,500 1,330 1,450 5,50	556,300 \$ 573,000 \$ 590,200 \$ 66 566,300 \$ 573,000 \$ 590,200 \$ 66 692,600 715,400 738,900 \$ 738,900 614,200 634,400 655,300 286,600 268,700 277,500 286,600 286,600 268,700 277,300 286,600 \$ 564,300 114,900 118,700 122,600 \$ 608,400 608,400 628,400 649,100 \$ 564,300 \$ 586,600 519,500 \$ 536,600 \$ 554,300 \$ 58,300 \$ 564,300 \$ 58,300 268,700 \$ 536,600 \$ 564,300 \$ 56,300 <t< td=""><td>2072 2073 2074 2075 64 65 66 67 64 65 66 67 656,300 \$ 578,000 \$ 607,900 \$ 607,900 692,600 715,400 738,900 763,200 308,300 318,400 655,300 676,900 268,700 277,500 228,600 676,900 268,700 118,700 122,600 670,500 118,700 122,600 670,500 670,500 608,400 628,400 649,100 670,500 608,400 628,400 649,100 670,500 519,500 \$ 536,600 \$ 554,300 \$ 572,500 519,500 \$ 536,600 \$ 5407,300 \$ 526,000 4,911,800 \$ 5,275,600 \$ 5,2600 \$ 5,407,300 20,500 \$ 5,236,800 \$ 5,407,300 \$ 5,407,300 4,911,800 \$ 5,071,600 \$ 5,236,800 \$ 5,407,300 1,000 1,000 1,000 1,000 4,911</td><td>2072 2073 2074 2075 2076 66 67 68 64 65 66 67 67 2076 68 656,300 \$ 573,000 \$ 580,200 \$ 763,200 783,200 788,300 308,300 \$ 18,400 \$ 728,900 7763,200 788,300 780,200 614,200 634,400 655,300 676,900 780,200 780,200 268,700 277,500 2286,600 226,000 335,700 335,700 268,700 277,500 2286,400 649,100 670,500 692,600 608,400 628,400 649,100 670,500 692,600 519,500 628,400 649,100 670,500 692,600 519,500 536,600 554,300 591,300 228,600 268,700 536,600 554,300 591,300 228,400 692,600 383,400 538,000 554,300 551,300 558,400 328,400 383,400 538,000</td><td>2072 2073 2074 2075 68 2077 68 69 565,300 \$ 673,000 \$ 690,200 \$ 607,900 \$ 626,100 \$ 644,900 565,300 718,400 7738,900 763,200 36,300 314,200 308,300 718,400 728,900 776,200 352,000 314,200 214,200 654,400 655,300 378,700 362,000 314,200 286,700 777,500 2286,400 2296,000 305,700 315,800 286,400 226,000 305,700 315,800 315,800 315,800 114,900 118,700 122,600 136,800 315,800 315,800 214,000 669,100 305,700 315,800 315,800 315,800 218,400 5,286,600 5,240,500 692,600 315,800 315,800 318,400 6,28,400 649,100 670,500 692,600 315,800 21,500 5,386,000 5,536,000 328,400 5,516,000 <</td><td>2072 2073 2074 2075 2077 69 67 69 60</td><td>564 65 67 68 89 70 71 565 300 S 573,000 S 567,300 S 626,100 S 644,900 S 664,000 S 664,000 S 664,100 S 664,00 S 773,500 S 665,300 S 776,500 S 772,200 S 777,500 S 777,700 S 777,700 S 777,700 S 7</td><td>564 67 2074 2077 2077 2077 2079 2070 2079 2077 2079 2079 2077 2079 20</td><td>64 66 67 2075 2077 2078 70 71 72 564 65 67 67 68 70 70 71 72 565,300 5 573,000 5 590,200 74,200 8 64,200 8 64,100 8 704,000 8 70,000 70,000 8 70,000 70,000 8 70,000 70,000</td><td>2072 2073 2074 2079 2074 2075 2079 2074 2075 2079 2074 2075 2079 2074 2077 2079 2074 2077 2079 2074 2077 2079 2074 2074 <th< td=""><td>647 2072 2073 2074 2074 2074 2074 2078</td></th<></td></t<>	2072 2073 2074 2075 64 65 66 67 64 65 66 67 656,300 \$ 578,000 \$ 607,900 \$ 607,900 692,600 715,400 738,900 763,200 308,300 318,400 655,300 676,900 268,700 277,500 228,600 676,900 268,700 118,700 122,600 670,500 118,700 122,600 670,500 670,500 608,400 628,400 649,100 670,500 608,400 628,400 649,100 670,500 519,500 \$ 536,600 \$ 554,300 \$ 572,500 519,500 \$ 536,600 \$ 5407,300 \$ 526,000 4,911,800 \$ 5,275,600 \$ 5,2600 \$ 5,407,300 20,500 \$ 5,236,800 \$ 5,407,300 \$ 5,407,300 4,911,800 \$ 5,071,600 \$ 5,236,800 \$ 5,407,300 1,000 1,000 1,000 1,000 4,911	2072 2073 2074 2075 2076 66 67 68 64 65 66 67 67 2076 68 656,300 \$ 573,000 \$ 580,200 \$ 763,200 783,200 788,300 308,300 \$ 18,400 \$ 728,900 7763,200 788,300 780,200 614,200 634,400 655,300 676,900 780,200 780,200 268,700 277,500 2286,600 226,000 335,700 335,700 268,700 277,500 2286,400 649,100 670,500 692,600 608,400 628,400 649,100 670,500 692,600 519,500 628,400 649,100 670,500 692,600 519,500 536,600 554,300 591,300 228,600 268,700 536,600 554,300 591,300 228,400 692,600 383,400 538,000 554,300 551,300 558,400 328,400 383,400 538,000	2072 2073 2074 2075 68 2077 68 69 565,300 \$ 673,000 \$ 690,200 \$ 607,900 \$ 626,100 \$ 644,900 565,300 718,400 7738,900 763,200 36,300 314,200 308,300 718,400 728,900 776,200 352,000 314,200 214,200 654,400 655,300 378,700 362,000 314,200 286,700 777,500 2286,400 2296,000 305,700 315,800 286,400 226,000 305,700 315,800 315,800 315,800 114,900 118,700 122,600 136,800 315,800 315,800 214,000 669,100 305,700 315,800 315,800 315,800 218,400 5,286,600 5,240,500 692,600 315,800 315,800 318,400 6,28,400 649,100 670,500 692,600 315,800 21,500 5,386,000 5,536,000 328,400 5,516,000 <	2072 2073 2074 2075 2077 69 67 69 60	564 65 67 68 89 70 71 565 300 S 573,000 S 567,300 S 626,100 S 644,900 S 664,000 S 664,000 S 664,100 S 664,00 S 773,500 S 665,300 S 776,500 S 772,200 S 777,500 S 777,700 S 777,700 S 777,700 S 7	564 67 2074 2077 2077 2077 2079 2070 2079 2077 2079 2079 2077 2079 20	64 66 67 2075 2077 2078 70 71 72 564 65 67 67 68 70 70 71 72 565,300 5 573,000 5 590,200 74,200 8 64,200 8 64,100 8 704,000 8 70,000 70,000 8 70,000 70,000 8 70,000 70,000	2072 2073 2074 2079 2074 2075 2079 2074 2075 2079 2074 2075 2079 2074 2077 2079 2074 2077 2079 2074 2077 2079 2074 2074 <th< td=""><td>647 2072 2073 2074 2074 2074 2074 2078</td></th<>	647 2072 2073 2074 2074 2074 2074 2078

Table A-5: CVMSHCP Management Program Budget -(Nominal \$)

(A DIIII A)				***************************************								
	Base	₽	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
FY Ending June 30	Salary	Salary ¹	-	2	3	4	5	9	7	80	6	9
Personnel												
Reserve I and Manage	82 000	\$ 00000	90.200	\$ 93.200	008.96	\$ 99.500	\$ 102 800	\$ 106.200	\$ 109 700	\$ 113.300	\$ 117 000 3	\$ 120.800
Annt Deposite Manager (4)2				77.600			85,500	88 300	167,600	173 100	178 300	
Asst. Neseive ividilayer (+)	000,00	001,07	001,01	000,11	00,200	02,000	000,000	000,00	000,101	000,000	000,011	000,000
Ranger-Warden (2)	80,000	88,000	176,000	181,800	187,800	194,000	200,400	207,000	213,800	220,800	228,100	235,600
Field Crew Labor (contract)	36,000	39,600	39,600	40,900	42,200	43,600	45,000	46,500	48,000	49,600	51,200	52,900
Admin. Assistant (0.25-0.5)²	39,700	43,670	13,895	14,400	14,900	15,400	15,900	16,400	26,900	27,800	28,700	29,600
Personnel Subtotal		€9	394,795	\$ 407,900	\$ 421,400	\$ 435,300	\$ 449,600	\$ 464,400	\$ 566,000	\$ 584,600	\$ 603,300	\$ 622,500
Staff per Year - Subtotal			4.25	4.25	4.25	4.25	4.25	4.25	5.5	5.5	5.5	5.5
Personnel Cost Without Inflation			394,795	395,000	395,000	395,000	395,000	395,000	468,000	468,000	468,000	468,000
:												
Equipment and Supplies												
Site Protection & Maintenance		0,	3 25,000	\$ 25,800	\$ 26,600	\$ 27,500	\$ 28,400	\$ 29,300	\$ 30,300	\$ 31,300	\$ 32,300	\$ 33,400
Habitat Maintenance and Rest.			9,700	4,000	4,100	4,200	4,300	4,400	4,500	4,600	4,800	5,000
Field Equipment and Supplies			61,300	13,900	14,400	14,900	15,400	15,900	16,400	16,900	17,500	18,100
Office Equipment			44,600	39,900	41,200	42,600	44,000	45,400	46,900	48,400	50,000	51,600
Public Education Services			9,000	5,700	5,900	6,100	6,300	6,500	6,700	6,900	7,100	7,300
Equipment Subtotal			149,600	89,300	92,200	95,300	98,400	101,500	104,800	108,100	111,700	115,400
Subtotal - Estimated Cost			544,395	497,200	513,600	530,600	548,000	565,900	670,800	692,700	715,000	737,900
10% Contingency			54,440	49,720	51,360	53,060	54,800	56,590	67,080	69,270	71,500	73,790
Administrative Overhead (10%)			54,440	49,720	51,360	53,060	54,800	56,590	67,080	69,270	71,500	73,790
Total - Estimated Cost			653,000	597,000	616,000	637,000	658,000	679,000	805,000	831,000	858,000	885,000

'This salary includes benefits, worker' compensation, 10% administrative overhead.

² These positions are phased in as the number of acres acquired increases.

Source: Coachella Valley Mountain Conservancy; Willdan Financial Services.

Table A-5: CVMSHCP Management Program Budget -(Nominal \$)

(* million)												
	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
FY Ending June 30	11	12	13	14	15	16	17	18	19	20	21	22
Personnel												
Posonyo I and Manago	427 800	\$ 124 800 \$ 128 900	133 100	4 137 500	4172 000	418 700	\$ 151 500	4 156 500	161 600	166 900	472 400	478 100
	4,000	000,000							101,000			
Asst. Reserve Manager (4)*	189,100	194,800	200,600	206,600	286,200	294,800	303,600	312,700	322,100	331,800	341,800	352,100
Ranger-Warden (2)	243,400	251,400	259,700	268,200	277,000	286,100	295,500	305,200	315,200	325,600	336,300	347,400
Field Crew Labor (contract)	54,600	56,400	58,300	60,200	62,200	32,100	33,200	34,300	35,400	36,600	37,800	39,000
Admin. Assistant (0.25-0.5)²	30,600	31,600	32,600	33,700	34,800	35,900	37,100	38,300	39,600	40,900	42,200	43,600
Personnel Subtotal	\$ 642,500	\$ 663,100	\$ 684,300	\$ 706,200	\$ 802,200	\$ 795,600	\$ 820,900	\$ 847,000	\$ 873,900	\$ 901,800	\$ 930,500	\$ 960,200
Staff per Year - Subtotal	5.5		5.5	5.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
Personnel Cost Without Inflation	468,000	468,000	468,000	468,000	517,000	498,000	498,000	498,000	498,000	498,000	498,000	498,000
Equipment and Supplies												
Site Protection & Maintenance	\$ 34,500	\$ 35,600	\$ 36,800	\$ 38,000	\$ 39,300	\$ 40,600	\$ 41,900	\$ 43,300	\$ 44,700	\$ 46,200	\$ 47,700	\$ 49,300
Habitat Maintenance and Rest.	5,200	5,400	5,600	5,800	6,000	6,200	6,400	6,600	6,800	7,000	7,200	7,400
Field Equipment and Supplies	18,700	19,300	19,900	20,600	21,300	22,000	22,700	23,400	24,200	25,000	25,800	26,600
Office Equipment	53,300	55,100	56,900	58,800	60,700	62,700	64,800	006'99	69,100	71,400	73,700	76,100
Public Education Services	7,500	7,700	8,000	8,300	8,600	8,900	9,200	9,500	9,800	10,100	10,400	10,700
Equipment Subtotal	119,200	123,100	127,200	131,500	135,900	140,400	145,000	149,700	154,600	159,700	164,800	170,100
Subtotal - Estimated Cost	761,700	786,200	811,500	837,700	938,100	936,000	965,900	996,700	1,028,500	1,061,500	1,095,300	1,130,300
10% Contingency	76,170	78,620	81,150	83,770	93,810	93,600	96,590	99,670	102,850	106,150	109,530	113,030
Administrative Overhead (10%)	76,170	78,620	81,150	83,770	93,810	93,600	96,590	99,670	102,850	106,150	109,530	113,030
Total - Estimated Cost	914,000	943,000	974,000	1,005,000	1,126,000	1,123,000	1,159,000	1,196,000	1,234,000	1,274,000	1,314,000	1,356,000

Table A-5: CVMSHCP Management Program Budget -(Nominal \$)

(Nominal ≱)											
FY Ending June 30	2031 23	2032 24	2033 25	2034 26	2035 27	2036 28	2037 29	2038 30	2039 31	2040 32	2041 33
Personne!											
Reserve Land Manage	\$ 184,000	\$ 190,100	\$ 196,400	\$ 202,900	\$ 209,600	\$ 216,500		\$ 231,000			\$ 254,500
Asst. Reserve Manager (4)²	440,000	453,200	466,800	480,800	495,200	510,100	525,400	541,200	557,400	574,100	591,300
Ranger-Warden (2)	358,800	370,600	382,800	395,400	408,400	421,800	435,700	450,000	464,800	480,100	495,900
Field Crew Labor (contract)	40,300	41,600	43,000	44,400	45,900	47,400	49,000	50,600	52,300	54,000	55,800
Admin. Assistant (0.25-0.5)²	45,000	46,500	48,000	49,600	51,200	52,900	54,600	56,400	58,300	60,200	62,200
Personnel Subtotal	\$ 1,068,100 \$ 1,102,000	\$ 1,102,000	\$ 1,137,000	\$ 1,173,100	\$ 1,210,300	\$ 1,248,700	\$ 1,288,300	\$ 1,329,200	\$ 1,371,400	\$ 1,414,800	\$ 1,459,700
Staff per Year - Subtotal	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
Personnel Cost Without Inflation	498,000	538,000	538,000	538,000	538,000	538,000	538,000	538,000	538,000	538,000	538,000
Equipment and Supplies											
Site Protection & Maintenance	\$ 50,900	\$ 52,600	\$ 54,300	\$ 56,100	\$ 57,900	\$ 59,800	\$ 61,800	\$ 63,800	\$ 65,900	\$ 68,100	\$ 70,300
Habitat Maintenance and Rest.	7,600	7,900	8,200	8,500	8,800	9,100	9,400	9,700	10,000	10,300	10,600
Field Equipment and Supplies	27,500	28,400	29,300	30,300	31,300	32,300	33,400	34,500	35,600	36,800	38,000
Office Equipment	78,600	81,200	83,900	86,700	009'68	92,500	95,500	98,600	101,800	105,100	108,600
Public Education Services	11,100	11,500	11,900	12,300	12,700	13,100	13,500	13,900	14,400	14,900	15,400
Equipment Subtotal	175,700	181,600	187,600	193,900	200,300	206,800	213,600	220,500	227,700	235,200	242,900
Subtotal - Estimated Cost	1,243,800	1,283,600	1,324,600	1,367,000	1,410,600	1,455,500	1,501,900	1,549,700	1,599,100	1,650,000	1,702,600
10% Contingency	124,380	128,360	132,460	136,700	141,060	145,550	150,190	154,970	159,910	165,000	170,260
Administrative Overhead (10%)	124,380	128,360	132,460	136,700	141,060	145,550	150,190	154,970	159,910	165,000	170,260
Total - Estimated Cost	1,493,000	1,540,000	1,590,000	1,640,000	1,693,000	1,747,000	1,802,000	1,860,000	1,919,000	1,980,000	2,043,000

Table A-5: CVMSHCP Management Program Budget -(Nominal \$)

(NOITHIRE 9)											
	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052
FY Ending June 30	34	35	36	37	38	39	40	41	42	43	4
Personnel											
Reserve Land Manage	\$ 262,900	\$ 271,500	3 \$ 280,400	0 \$ 289,600	\$ 299,100	\$ 308,900	\$ 319,100	\$ 329,600	\$ 340,400	\$ 351,600	\$ 363,200
Asst. Reserve Manager (4)²	000'609	627,300		0 665,500		706,100	727,300	749,100	771,600	794,700	818,500
Ranger-Warden (2)	512,200	529,100	546,500	564,500	583,100	602,300	622,100	642,600	663,700	685,500	708,100
Field Crew Labor (contract)	57,600	59,500	004,500	003,500	65,600	67,800	70,000	72,300	74,700	77,200	79,700
Admin. Assistant (0.25-0.5)²	64,200	66,300	68,500	70,800	73,100	75,500	78,000	80,600	83,300	86,000	88,800
Personnel Subtotal	\$ 1,505,900	\$ 1,553,700	0 \$ 1,603,000	0 \$ 1,653,900	\$ 1,706,400	\$ 1,760,600	\$ 1,816,500	\$ 1,874,200	\$ 1,933,700	\$ 1,995,000	\$ 2,058,300
Staff per Year - Subtotal	7.5	7.5	5 7.5	5.7	7.5	7.5	7.5	7.5	7.5	7.5	7.5
Personnel Cost Without Inflation	538,000	538,000	538,000	538,000	538,000	538,000	538,000	538,000	538,000	538,000	538,000
Equipment and Supplies											
Site Protection & Maintenance	\$ 72,600	\$ 75,000	005,77 \$ 0	000'08 \$ 0	\$ 82,600	\$ 85,300	\$ 88,100	\$ 91,000	\$ 94,000	\$ 97,100	\$ 100,300
Habitat Maintenance and Rest.	10,900	11,300	11,700	12,100	12,500	12,900	13,300	13,700	14,200	14,700	15,200
Field Equipment and Supplies	39,300	40,600	1,900	3 43,300	44,700	46,200	47,700	49,300	50,900	52,600	54,300
Office Equipment	112,200	115,900	119,700	123,600	127,700	131,900	136,200	140,700	145,300	150,100	155,000
Public Education Services	15,900	16,400	16,900	17,500	18,100	18,700	19,300	19,900	20,600	21,300	22,000
Equipment Subtotal	250,900	259,200	267,700	0 276,500	285,600	295,000	304,600	314,600	325,000	335,800	346,800
Subtotal - Estimated Cost	1,756,800	1,812,900	1,870,700	0 1,930,400	1,992,000	2,055,600	2,121,100	2,188,800	2,258,700	2,330,800	2,405,100
10% Contingency	175,680	181,290	187,070	193,040	199,200	205,560	212,110	218,880	225,870	233,080	240,510
Administrative Overhead (10%)	175,680	181,290	187,070	193,040	199,200	205,560	212,110	218,880	225,870	233,080	240,510
Total - Estimated Cost	2,108,000	2,175,000	2,245,000	2,316,000	2,390,000	2,467,000	2,545,000	2,627,000	2,710,000	2,797,000	2,886,000

Table A-5: CVMSHCP Management Program Budget -(Nominal \$)

	2000	7054	2000	2000	2005	2000	0200	0000	2000	5300	2000
	CC07	4C07	5002	2000	1007	600	6007	2000	1007	7007	5002
FY Ending June 30	45	46	47	48	49	50	51	52	53	24	55
Personnel											
Reserve Land Manage	\$ 375,100	\$ 387,400	\$ 400,100	\$ 413,300	\$ 426,900	\$ 440,900	\$ 455,400	\$ 470,400	\$ 485,900	\$ 501,900	\$ 518,400
Asst. Reserve Manager (4) ²	843,100	868,400	894,500	921,300	948,900	977,400	1,006,700	1,036,900	1,068,000	1,100,000	1,133,000
Ranger-Warden (2)	731,400	755,500	780,400	806,100	832,600	860,000	888,300	917,500	947,700	978,900	1,011,100
Field Crew Labor (contract)	82,300	85,000	87,800	90,700	93,700	96,800	100,000	103,300	106,700	110,200	113,800
Admin. Assistant (0.25-0.5) ²	91,700	94,700	97,800	101,000	104,300	107,700	111,200	114,900	118,700	122,600	126,600
Personnel Subtotal	\$ 2,123,600	\$ 2,191,000	\$ 2,260,600	\$ 2,332,400	\$ 2,406,400	\$ 2,482,800	\$ 2,561,600	\$ 2,643,000	\$ 2,727,000	\$ 2,813,600	\$ 2,902,900
Staff per Year - Subtotal	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
Personnel Cost Without Inflation	538,000	538,000	538,000	538,000	538,000	538,000	538,000	538,000	538,000	538,000	538,000
Equipment and Supplies											
Site Protection & Maintenance	\$ 103,600	\$ 107,000	\$ 110,500	\$ 114,100	\$ 117,900	\$ 121,800	\$ 125,800	\$ 129,900	\$ 134,200	\$ 138,600	\$ 143,200
Habitat Maintenance and Rest.	15,700	16,200	16,700	17,200	17,800	18,400	19,000	19,600	20,200	20,900	21,600
Field Equipment and Supplies	56,100	57,900	59,800	61,800	63,800	65,900	68,100	70,300	72,600	75,000	77,500
Office Equipment	160,100	165,400	170,800	176,400	182,200	188,200	194,400	200,800	207,400	214,200	221,200
Public Education Services	22,700	23,400	24,200	25,000	25,800	26,600	27,500	28,400	29,300	30,300	31,300
Equipment Subtotal	358,200	369,900	382,000	394,500	407,500	420,900	434,800	449,000	463,700	479,000	494,800
Subtotal - Estimated Cost	2,481,800	2,560,900	2,642,600	2,726,900	2,813,900	2,903,700	2,996,400	3,092,000	3,190,700	3,292,600	3,397,700
10% Contingency	248,180	256,090	264,260	272,690	281,390	290,370	299,640	309,200	319,070	329,260	339,770
Administrative Overhead (10%)	248,180	256,090	264,260	272,690	281,390	290,370	299,640	309,200	319,070	329,260	339,770
Total - Estimated Cost	2,978,000	3,073,000	3,171,000	3,272,000	3,377,000	3,484,000	3,596,000	3,710,000	3,829,000	3,951,000	4,077,000

Table A-5: CVMSHCP Management Program Budget -(Nominal \$)

(NOITHING 4)											
	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074
FY Ending June 30	56	57	28	29	09	61	62	63	64	65	99
Personnel											
Reserve Land Manage	\$ 535,500	\$ 553,100	\$ 571,300	\$ 590,100	\$ 609,500	\$ 629,600	\$ 650,300	\$ 671,700	\$ 693,800	\$ 716,600	\$ 740,200
Asst. Reserve Manager (4)²	1,167,000	1,202,000	1,238,100	1,275,200	1,313,500	1,352,900	1,393,500	1,435,300	1,478,400	1,522,800	1,568,500
Ranger-Warden (2)	1,044,400	1,078,800	1,114,300	1,151,000	1,188,900	1,228,000	1,268,400	1,310,100	1,353,200	1,397,700	1,443,700
Field Crew Labor (contract)	117,500	121,400	125,400	129,500	133,800	138,200	142,700	147,400	152,200	157,200	162,400
Admin. Assistant (0.25-0.5)²	130,800	135,100	139,500	144,100	148,800	153,700	158,800	164,000	169,400	175,000	180,800
Personnel Subtotal	\$ 2,995,200	\$ 3,090,400	\$ 3,188,600	\$ 3,289,900	\$ 3,394,500	\$ 3,502,400	\$ 3,613,700	\$ 3,728,500	\$ 3,847,000	\$ 3,969,300	\$ 4,095,600
Staff per Year - Subtotal	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
Personnel Cost Without Inflation	538,000	538,000	538,000	538,000	538,000	538,000	538,000	538,000	538,000	538,000	538,000
Equipment and Supplies											
Site Protection & Maintenance	\$ 147,900	\$ 152,800	\$ 157,800	\$ 163,000	\$ 168,400	\$ 173,900	\$ 179,600	\$ 185,500	\$ 191,600	\$ 197,900	\$ 204,400
Habitat Maintenance and Rest.	22,300	23,000	23,800	24,600	25,400	26,200	27,100	28,000	28,900	29,900	30,900
Field Equipment and Supplies	80,000	82,600	85,300	88,100	91,000	94,000	97,100	100,300	103,600	107,000	110,500
Office Equipment	228,500	236,000	243,800	251,800	260,100	268,700	277,500	286,600	296,000	305,700	315,800
Public Education Services	32,300	33,400	34,500	35,600	36,800	38,000	39,300	40,600	41,900	43,300	44,700
Equipment Subtotal	511,000	527,800	545,200	563,100	581,700	008'009	620,600	641,000	662,000	683,800	706,300
Subtotal - Estimated Cost	3,506,200	3,618,200	3,733,800	3,853,000	3,976,200	4,103,200	4,234,300	4,369,500	4,509,000	4,653,100	4,801,900
10% Contingency	350,620	361,820	373,380	385,300	397,620	410,320	423,430	436,950	450,900	465,310	480,190
Administrative Overhead (10%)	350,620	361,820	373,380	385,300	397,620	410,320	423,430	436,950	450,900	465,310	480,190
Total - Estimated Cost	4,207,000	4,342,000	4,481,000	4,624,000	4,771,000	4,924,000	5,081,000	5,243,000	5,411,000	5,584,000	5,762,000

Table A-5: CVMSHCP Management Program Budget -(Nominal \$)

(A									
-	2075	2076	2077	2078	2079	2080	2081	2082	2083
FY Ending June 30	29	89	69	70	71	72	73	74	75
Personnel									
Reserve Land Manage	\$ 764,600	\$ 789,800	\$ 815,800	\$ 842,600	\$ 870,300	\$ 898,900	\$ 928,500	\$ 959,000	\$ 990,600
Asst. Reserve Manager (4) ²	1,615,600	1,664,100	1,714,000	1,765,400	1,818,400	1,873,000	1,929,200	1,987,100	2,046,700
Ranger-Warden (2)	1,491,200	1,540,300	1,591,000	1,643,300	1,697,400	1,753,200	1,810,900	1,870,500	1,932,000
Field Crew Labor (contract)	167,700	173,200	178,900	184,800	190,900	197,200	203,700	210,400	217,300
Admin. Assistant $(0.25-0.5)^2$	186,700	192,800	199,100	205,700	212,500	219,500	226,700	234,200	241,900
Personnel Subtotal	\$ 4,225,800	\$ 4,360,200	\$ 4,498,800	\$ 4,641,800	\$ 4,789,500	\$ 4,941,800	\$ 5,099,000	\$ 5,261,200	\$ 5,428,500
Staff per Year - Subtotal	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
Personnel Cost Without Inflation	538,000	538,000	538,000	538,000	538,000	538,000	538,000	538,000	538,000
Equipment and Supplies									
Site Protection & Maintenance	\$ 211,100	\$ 218,000	\$ 225,200	\$ 232,600	\$ 240,300	\$ 248,200	\$ 256,400	\$ 264,800	\$ 273,500
Habitat Maintenance and Rest.	31,900	32,900	34,000	35,100	36,300	37,500	38,700	40,000	41,300
Field Equipment and Supplies	114,100	117,900	121,800	125,800	129,900	134,200	138,600	143,200	147,900
Office Equipment	326,200	336,900	348,000	359,400	371,200	383,400	396,000	409,000	422,500
Public Education Services	46,200	47,700	49,300	50,900	52,600	54,300	56,100	57,900	59,800
Equipment Subtotal	729,500	753,400	778,300	803,800	830,300	857,600	885,800	914,900	945,000
Subtotal - Estimated Cost	4,955,300	5,113,600	5,277,100	5,445,600	5,619,800	5,799,400	5,984,800	6,176,100	6,373,500
10% Contingency	495,530	511,360	527,710	544,560	561,980	579,940	598,480	617,610	637,350
Administrative Overhead (10%)	495,530	511,360	527,710	544,560	561,980	579,940	598,480	617,610	637,350
Total - Estimated Cost	5,946,000	6,136,000	6,333,000	6,535,000	6,744,000	6,959,000	7,182,000	7,411,000	7,648,000

Table A-6: Monitoring & Management Fund (Nominal \$)

FY Ending June 30	2009	2010	2011	2012	2013	2014	2015	2016		2017	2018	<u>8</u>
Plan Year		2	က	4	သ	. 9	7	ω		O	10	
Beginning Fund Balance	1 69	\$ (138)	\$ 124,000	69.	69.	69.	t 69.	69.	69.	1	69.	ı
Revenues Landfill Tipping Fees Consenzation Trust Fund	ብ 12 12 12 12 12 12 12 12 12 12 12 12 12	\$ 370 170	387 000	402 000	# 27 000	43.5000 43.5000	452,000	¥	470 000 &	789 000	e G	900
Eagle Mountain Open Space Trust	- ' - - - - -)				000,00
Other Revenues	20,000	273	ľ	ı	•	•		1	,	•		•
Transfer From/(To) Endowment	328,553	285,960	2,040,000	774,000	1,135,000	1,314,000	982,000		798,000	1,961,000	1,34	,343,000
Local Development Mitigation Fee Revenue	1	•	1	1,437,000	1,129,000	931,000	1,421,000	1,664,000	000	561,000	1,24	1,240,000
Interest Earnings ¹	'		7.000	1		t			'	1		1
Total Revenues	\$ 764,364	\$ 658,405	\$ 2,434,000	\$ 2,613,000	\$ 2,682,000	\$ 2,680,000	\$ 2,855,000	0 \$ 2,932,000	\$ 000'	3,011,000	\$ 3,092,000	92,000
Expenditures												
Monitoring Program	\$ 235,304	\$ 223,147	\$ 955,000	\$ 973,000	\$ 1,004,000	\$ 964,000	\$ 995,000	0 \$ 1,028,000	\$ 000	1,061,000	\$ 1,09	1,096,000
Management Program	1	1	616,000	637,000	658,000	679,000	805,000	_	831,000	858,000	88	885,000
Adaptive Management	1	ı	106,000	109,000	113,000	117,000	121,000		125,000	129,000	5	133,000
Management Contingency	1	ı	500,000	200,000	500,000	200,000	500,000		500,000	500,000	50	500,000
Administration (program-wide share)	529,198	311,235	381,000	394,000	407,000	420,000	434,000		448,000	463,000	47	478,000
Total Expenditures	\$ 764,502	\$ 534,381	\$ 2,558,000	\$ 2,613,000	\$ 2,682,000	\$ 2,680,000	\$ 2,855,000	3 2,932,000	\$ 000'	3,011,000	\$ 3,092,000	92,000
Net Cash Flow	\$ (138)	\$ 124,024	\$ (124,000)	. €	, €	↔	₩	€	ı	t	€	ŧ
Ending Fund Balance	\$ (138)	\$ 123,886	69.	69.	69.	69.	69.	69.	69. I	ı	69.	ı

Note: All values shown in nominal dollars, i.e. including inflation at 3.29 percent annually unless otherwise noted. See text for explanation of each revenue and cost line item.

Assumes nominal investment yield of 5.73 percent.

Sources: Tables 8-10 and 8-11; Coachella Valley Association of Governments; Riverside County; Willdan Financial Services.

Table A-6: Monitoring & Management Fund (Nominal \$)

FY Ending June 30 Plan Year	ar 30	2019 11	2020 12		202 1 13	2022 14	2023 15	8 10	2024 16	20	2025 17	2026 18		2027 19		2028 20
Beginning Fund Balance	69.	1	ь Б	69.	ı	1 69,	69,	1	ı	69	1	69.	69. 1		69.	•
Revenues Landfill Tipping Fees Conservation Trust Fund Eagle Mountain Open Space Trust	↔	529,000	\$ 550,000	↔	572,000	\$ 595,000	↔	619,000 \$	644,000	₩	000'029	000'269 \$	\$ 000	725,000	↔	754,000
Other Revenues Transfer From/(To) Endowment Local Development Mitigation Fee Revenue		- 1,533,000 1,114,000	7,105,000 1,608,000	, ŏ o	866,000 1,416,000	1,999,000 353,000		- 1,364,000 1,148,000	1,010,000 1,540,000	8 8,	- 813,000 ,814,000	643,000 2,064,000	' 00 00	1,625,000 1,164,000	-	000'906 000'696'
Total Revenues	↔	\$ 3,176,000	\$ 3,263,000	↔	2,854,000	\$ 2,947,000	↔	3,131,000 \$	\$ 3,194,000	\$ 3,26	3,297,000	\$ 3,404,000	900	3,514,000	က် မာ	3,629,000
Expenditures Monitoring Program Management Program Adaptive Management	↔	\$ 1,131,000 914,000 137,000	\$ 1,168,000 943,000 142,000	9	1,206,000 974,000 147,000	\$ 1,245,000 1,005,000 152,000	↔	1,286,000 \$ 1,126,000 157,000	\$ 1,328,000 1,123,000 162,000	\$ 1,3 1,1	1,371,000 1,159,000 167,000	\$ 1,416,000 1,196,000 172,000	\$ 000 000	1,462,000 1,234,000 178,000	⇔	,510,000 ,274,000 184,000
Management Commigency Administration (program-wide share) Total Expenditures	₩	3,176,000	510,000 \$ 3,263,000	↔	527,000 2,854,000	545,000 \$ 2,947,000	₩	562,000 3,131,000 \$	581,000 \$ 3,194,000	\$ 3,25	3,297,000	620,000 \$ 3,404,000	- 00 00 00 00	640,000 3,514,000	₩	661,000 3,629,000
Net Cash Flow	↔	1	⇔	\$	1	₩	₩.	1	1	↔	τ	↔	⇔ '	•	↔	t
Ending Fund Balance	69	ı	69	69. I	•	· 69	69	ı	1	69 .	•	69.	69. I		69 .	•

Table A-6: Monitoring & Management Fund (Nominal \$)

FY Ending June 30		2029	2030		2031	2032		2033	2034		2035	2036	2037		2038
Plan Year		21	22		23	24		25	26		27	28	29		30
Beginning Fund Balance	69	ı	69	1	1	69	69	•	€9-	69	t	ı €9-	69	69	ı
Revenues Landfill Tipping Fees Conservation Trust Fund Eagle Mountain Open Space Trust	↔	784,000	\$ 815,	815,000 \$	848,000	\$ 882,000	\$	917,000	\$ 954,000	↔	992,000	\$ 1,032,000	\$ 1,073,000		\$ 1,116,000
Other Revenues Transfer From/(To) Endowment Local Development Mitigation Fee Revenue	ζ'	505,000 2,457,000		000	157,000 3,081,000	87,000 3,249,000		- 49,000 3,389,000	27,000 3,514,000		- 15,000 3,634,000	9,000 3,752,000	ω	5,000	3,000,886,8
nicerest Latinings Total Revenues	က် မာ	\$ 3,746,000	\$ 3,867,000		\$ 4,086,000	\$ 4,218,000		\$ 4,355,000	\$ 4,495,000		\$ 4,641,000	\$ 4,793,000	\$ 4,948,000		\$ 5,108,000
Expenditures Monitoring Program Management Program Adaptive Management	& ←, ←,	\$ 1,559,000 1,314,000 190,000	\$ 1,609,000 1,356,000 196,000		\$ 1,662,000 1,493,000 202,000	\$ 1,716,000 1,540,000 209,000	\$	1,772,000 1,590,000 216,000	\$ 1,829,000 1,640,000 223,000	& ← ←	1,889,000 1,693,000 230,000	\$ 1,951,000 1,747,000 238,000	\$ 2,015,000 1,802,000 246,000	\$ 000 000	2,080,000 1,860,000 254,000
management Controlgency Administration (program-wide share) Total Expenditures	რ •	683,000 \$ 3,746,000	706,000 \$ 3,867,000		729,000 \$ 4,086,000	753,000 \$ 4,218,000	↔	777,000 4,355,000	803,000 \$ 4,495,000		829,000 \$ 4,641,000	\$57,000 \$ 4,793,000	885,000 \$ 4,948,000	\$ 000 000	914,000 5,108,000
Net Cash Flow	↔	ı	⇔	⇔ '	1	⇔	⇔ '	t	↔	↔	ı	ι (€9	⇔ '	•
Ending Fund Balance	69	ı	6 3	1	'	6 3	6 3	'	· 63	6 9		69	6A	69.	ı

Table A-6: Monitoring & Management Fund (Nominal \$)

FY Ending June 30 Plan Year	0 2039 r 31	2040 32	0	2041 33	2042 34	2043 35	2044 36	2045 37	2046 38	2047 39	2048 40
Beginning Fund Balance	t €9	69	69.	•	69	69	t 69.	t 69.	1 69.	69.	1
Revenues Landfill Tipping Fees Conservation Trust Fund Eagle Mountain Open Space Trust	\$ 1,161,000	€	\$ 000,202,	\$ 1,255,000	\$ 1,305,000	\$ 1,357,000	\$ 1,411,000	\$ 1,467,000	\$ 1,526,000	\$ 1,587,000	\$ 1,650,000
Other Revenues Transfer From/(To) Endowment Local Development Mitigation Fee Revenue	1,000 3,949,000	4,06	1,000 1,068,000	4,191,000	- - 4,316,000	4,447,000	4,582,000	4,720,000	- - 4,861,000	5,007,000	5,156,000
merest Earlings Total Revenues	\$ 5,111,000	₩	\$ 000,972,	\$ 5,446,000	\$ 5,621,000	\$ 5,804,000	\$ 5,993,000	\$ 6,187,000	\$ 6,387,000	\$ 6,594,000	\$ 6,806,000
Expenditures Monitoring Program Management Program Adaptive Management	\$ 2,148,000 1,919,000 100,000	⇔	;218,000 \$,980,000 103,000	2,290,000 2,043,000 106,000	\$ 2,364,000 2,108,000 109,000	\$ 2,441,000 2,175,000 113,000	\$ 2,521,000 2,245,000 117,000	\$ 2,603,000 2,316,000 121,000	\$ 2,688,000 2,390,000 125,000	\$ 2,775,000 2,467,000 129,000	\$ 2,865,000 2,545,000 133,000
Mariagement Continuency Administration (program-wide share) Total Expenditures	944,000 \$ 5,111,000	€9	975,000 \$ 000,375,	1,007,000	1.040.000 \$ 5,621,000	1,075,000 \$ 5,804,000	1,110,000 \$ 5,993,000	1.147.000 \$ 6,187,000	1,184,000 \$ 6,387,000	1,223,000 \$ 6,594,000	1.263.000 \$ 6,806,000
Net Cash Flow	€9	69 1	⇔ '	į	, ()	ı 69		ι 69	. €	. €	ı € 9
Ending Fund Balance	69	69.	69.		69.	69.	· 69	i 69	69	ا ب	, 63

Table A-6: Monitoring & Management Fund (Nominal \$)

FY Ending June 30 FY Ending June 30 Plan Year		2049 41	2050 42	2051 43	2052	2053 45	2054 46	2055 47	2056 48	2057 49	2058 50
Beginning Fund Balance	69	,	69	69	69.	69	69.	69	69-	69.	69
Revenues Landfill Tipping Fees Conservation Trust Fund Eagle Mountain Open Space Trust Other Revenues	\$ 1,7	\$ 1,716,000	\$ 1,785,000	\$ 1,856,000	\$ 1,930,000	\$ 2,007,000	\$ 2,087,000	\$ 2,170,000	\$ 2,257,000	\$ 2,347,000	\$ 2,441,000
Transfer From/Tro) Endowment Local Development Mitigation Fee Revenue	5,3	5,312,000	5,470,000	5,635,000	5,803,000	5,976,000	6,155,000	-000'688'9	6,527,000	6,723,000	6,921,000
meres cannigs Total Revenues	\$ 7,0	\$ 7,028,000	\$ 7,255,000	\$ 7,491,000	\$ 7,733,000	\$ 7,983,000	\$ 8,242,000	\$ 8,509,000	\$ 8,784,000	\$ 9,070,000	\$ 9,362,000
Expenditures Monitoring Program Management Program Adaptive Management	\$ 2,2,9 6,6;	\$ 2,959,000 2,627,000 137,000	\$ 3,055,000 2,710,000 142,000	\$ 3,155,000 2,797,000 147,000	\$ 3,257,000 2,886,000 152,000	\$ 3,363,000 2,978,000 157,000	\$ 3,473,000 3,073,000 162,000	\$ 3,586,000 3,171,000 167,000	\$ 3,703,000 3,272,000 172,000	\$ 3,824,000 3,377,000 178,000	\$ 3,948,000 3,484,000 184,000
Managoment Conningency Administration (program-wide share) Total Expenditures	1,3	1,305,000 \$ 7,028,000	1,348,000	1,392,000 \$ 7,491,000	1,438,000 \$ 7,733,000	1,485,000 \$ 7,983,000	1,534,000 \$ 8,242,000	1,585,000 \$ 8,509,000	1,637,000 \$ 8,784,000	1,691,000	1,746,000 \$ 9,362,000
Net Cash Flow	↔	•	. ↔	↔	€	, ↔	•	· У	. ↔	. ↔	,
Ending Fund Balance	69.	•	1 69	69	69	69.	69	69.	69	69	69

Table A-6: Monitoring & Management Fund (Nominal \$)

	-																
FY Ending June 30 Plan Year		2059 51	2060 52		2061 53		2062 54	2 4	2063 55	رَّ بِيَ	2064 56	"	2065 57	20 2	2066 58	2	2067 59
Beginning Fund Balance	6 9-	ı	69.	69.	1	69.	ı	69.	1	€\$	ı	69.	1	€9.	ı	€9.	ı
Revenues Landfill Tipping Fees Conservation Trust Fund Eagle Mountain Open Space Trust Other Revenues	⇔	\$ 2,539,000	\$ 2,641,000	↔	2,747,000	₩	2,857,000	\$ 2,9	2,971,000	°ć \$	3,090,000	erï ⊌>	3,214,000 \$	& 6,	3,343,000	ຕົ ເກ	3,477,000
Transfer From (To) Endowment Local Development Mitigation Fee Revenue	,'2	7,127,000	7,338,000	' 0	7,556,000	,~	000'082'2	9,6	8,010,000	ω,	8,247,000	80	8,491,000	8,7	8,742,000	ດ	000'000'6
inerest carmings Total Revenues	9,6	\$ 9,666,000	000'626'6 \$		\$ 10,303,000	\$ 10	\$ 10,637,000	\$ 10,8	\$ 10,981,000	\$ 11,	\$ 11,337,000	\$ 11	\$ 11,705,000 §	\$ 12,0	\$ 12,085,000	12,	\$ 12,477,000
Expenditures Monitoring Program Management Program Adaptive Management	& ,4,6,	\$ 4,076,000 3,596,000 190,000	\$ 4,210,000 3,710,000 196,000	⇔ ○ ○ ○	4,347,000 3,829,000 202,000	↔	4,489,000 3,951,000 209,000	\$ 9,4 0,4	4,635,000 4,077,000 216,000	& 4, 4,	4,786,000 4,207,000 223,000	& 4, 4,	4,942,000 \$ 4,342,000 230,000	\$ 7,4	5,103,000 4,481,000 238,000	0 τ <u>υ</u> 4,	5,270,000 4,624,000 246,000
Management Contrigency Administration (program-wide share) Total Expenditures	\$ 9,6	1,804,000 \$ 9,666,000	1,863,000 \$ 9,979,000	₩	1,925,000 10,303,000	\$ 10	1,988,000 10,637,000	\$ 10,9	2,053,000 10,981,000	\$ 11,	2,121,000 11,337,000	\$ 11	2,191,000 11,705,000 \$	2.2 \$ 12,0	2,263,000 12,085,000	\$ 12,	2,337,000 12,477,000
Net Cash Flow	↔	1	₩	↔	ı	↔	1	↔	1	₩	ı	↔	1	(A	ı	€₽-	ī
Ending Fund Balance	69.	Ī	69.	69. 1	ı	69.	1	69.	•	69.	1	69.	,	69.	1	69.	1

Table A-6: Monitoring & Management Fund (Nominal \$)

FY Ending June 30 Plan Year	ᄝᇶ	2068 60		2069 61		2070 62		207 1 63		2072 64		2073 65		2074 66		2075 67		2076 68
Beginning Fund Balance	69.	t	69.	1	69.	1	69.	ı	69	1	69	ı	69		69	1	69.	1
Revenues Landfill Tipping Fees Conservation Trust Fund Eagle Mountain Open Space Trust Other Revenues	€9	3,616,000	↔	3,761,000	↔	3,911,000	₩	4,067,000	69	4,230,000	₩	4,399,000	€9	4,575,000	€9	4,758,000	69	4,948,000
Transfer From/(To) Endowment Local Development Mitigation Fee Revenue		9,265,000		9,537,000		9,818,000	-	10,107,000	~	10,405,000	τ-	-00,017,01	-	11,024,000	÷	11,346,000	`	11,679,000
Total Revenues	69	\$ 12,881,000	₩	13,298,000	₩	13,729,000	\$ 1,	14,174,000	↔	14,635,000	₩	15,109,000	\$	15,599,000	\$ 16	16,104,000	\$ 16	16,627,000
Expenditures Monitoring Program Management Program Adaptive Management	↔	5,442,000 4,771,000 254,000	↔	5,619,000 4,924,000 262,000	↔	5,802,000 5,081,000 271,000	69	5,991,000 5,243,000 280,000	€9	6,187,000 5,411,000 289,000	↔	6,388,000 5,584,000 299,000	↔	6,597,000 5,762,000 309,000	₩	6,811,000 5,946,000 319,000	69	7,034,000 6,136,000 329,000
Management Contingency Administration (program-wide share) Total Expenditures	₩	2,414,000 \$ 12,881,000	₩	2,493,000 1 3 ,298,000	₩	2,575,000	₩	2.660.000 14,174,000	₩	2,748,000 14,635,000	\$ ₩	2,838,000 15,109,000	₩	2,931,000 15,599,000	\$ 16	3.028.000 16,104,000	. 16	3,128,000 16,627,000
Net Cash Flow	↔	1	↔	ı	↔	ı	↔	1	↔	ı	↔	1	↔	ı	€9-	•	↔	•
Ending Fund Balance	69	ı	69.	•	69	1	69.	1	69	•	69	•	69.	•	69.	•	69.	ı
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Table A-6: Monitoring & Management Fund (Nominal \$)

FY Ending June 30		2077 69		2078 70		2079 71		2080 72		2081 73		2082 74	2083 75	2009 - 2083 Total
Beginning Fund Balance	69	ı	69	ī	69		69	ı	69	•	69		, 69.	i 63
Revenues Landfill Tipping Fees Conservation Trust Fund Fadle Mountain Onen Snace Trust	↔	5,146,000	↔	5,352,000	↔	5,566,000	↔	5,789,000	↔	6,021,000	9 \$	6,262,000	\$ 6,512,000	\$ 160,432,000
Other Revenues Transfer From (To) Endowment Local Development Mitigation Fee Revenue		12,020,000	-	- 12,371,000	•	- 12,731,000	•	- 13,102,000	-	- 13,482,000	€.	- 13,873,000	- 14,276,000	20,000 23,966,000 420,474,000 7,000
Total Revenues	€	17,166,000	€	\$ 17,723,000	€	\$ 18,297,000	₩	18,891,000	€9-	\$ 19,503,000	\$ 20	\$ 20,135,000	\$ 20,788,000	\$ 604,899,000
Expenditures Monitoring Program Management Program Adaptive Management	↔	7,263,000 6,333,000 340,000	↔	7,500,000 6,535,000 351,000	⇔	7,744,000 6,744,000 363,000	↔	7,997,000 6,959,000 375,000	↔	8,257,000 7,182,000 387,000	& °,	8,526,000 7,411,000 400,000	\$ 8,804,000 7,648,000 413,000	\$ 252,795,000 220,002,000 14,700,000
Administration (program-wide share) Total Expenditures	₩	3,230,000 17,166,000	∨	3,337,000 17,723,000	. ↔	3,446,000 18,297,000	€9	3,560,000 18,891,000	€	3.677,000 19,503,000	3 20,	3,798,000 20,135,000	3,923,000 \$ 20,788,000	112,402,000 \$ 604,899,000
Net Cash Flow	↔	ı	↔	ı	↔	1	↔	ı	⇔	ı	\$	•	. ↔	€
Ending Fund Balance	69	•	69	ı	69	1	69	ı	69	•	69	•	· 69.	63

Appendix B: Glossary

This section contains definitions of terms used in the MSHCP and this analysis. Definitions included below were provided by CVAG.

Acceptable Biologist: A biologist whose name is on a list maintained by CVCC of biologist who are acceptable to CVCC, CDFG, and USFWS for purposes of conducting surveys of Covered Species.

Acquisition and Funding Coordinating Committee: A committee formed by the CVCC that provides input on local funding priorities and Additional Conservation Land acquisitions.

Adaptive Management: To use the results of new information gathered through the monitoring program of the Plan and from other sources to adjust management strategies and practices to assist in providing for the Conservation of Covered Species.

Additional Conservation Lands: Conserved Habitat that will contribute to Reserve System Assembly, as described in Section 4.2.2 of the MSHCP.

Allowable Uses: Uses allowed within the MSHCP Reserve System, as defined in Section 7.3.2 of the MSHCP.

Annual Report (s): The report(s) prepared pursuant to the requirements of Section 6.4 of the MSHCP.

Area Plan: A community planning area defined in the County of Riverside General Plan. Four County of Riverside Area Plans are located within the MSHCP Plan Area.

Biological Corridor: Wildlife movement area that is constrained by existing development, freeways, or other impediments. [See also "Linkage."]

California Department of Fish and Game ("CDFG"): A department of the California Resources Agency.

California Department of Parks and Recreation ("State Parks"): A department of the California Resources Agency.

California Department of Transportation ("Caltrans"): A department of the California Business, Transportation, and Housing Agency.

California Endangered Species Act ("CESA"): California Fish and Game Code, Section 2050 et seq. and all rules, regulations and guidelines promulgated thereunder, as amended.

California Environmental Quality Act (CEQA): California Public Resources Code, Section 21000 et seq. and all guidelines promulgated thereunder, as amended. For the MSHCP, CVAG shall be the Lead Agency under CEQA, as defined under state CEQA Guidelines Section 15367.

Candidate Species: "Candidate Species" means both (1) a species formally noticed by the California Fish and Game Commission as under review for listing as threatened or endangered, or a species for which the Fish and Game Commission has published a notice of proposed

regulation to add a species as threatened or endangered, and (2) a species which USFWS has identified as being a candidate for listing, but for which development of a listing regulation is precluded by other higher priority listing activities.

Certificate of Inclusion: The document attached as Exhibit "H" to the IA that would be required to be executed prior to a Participating Special Entity receiving Take Authorization pursuant to Section 11.7 of the IA or for other Covered Activities, as appropriate.

Changed Circumstances: Changes in circumstances affecting a Covered Species or geographic area covered by the MSHCP, that can reasonably be anticipated by the Parties and that can reasonably be planned for in the MSHCP. Changed Circumstances and the planned responses to those circumstances are more particularly described in Section 6.8.3 of the MSHCP. Changed Circumstances do not include Unforeseen Circumstances.

Cities: The cities of Cathedral City, Coachella, Indian Wells, India, La Quinta, Palm Desert, Palm Springs, and Rancho Mirage, collectively.

Coachella Valley Association of Governments ("CVAG"): A joint powers authority that functioned as Lead Agency for the preparation of the MSHCP.

Coachella Valley Conservation Commission ("CVCC"): A joint powers authority formed by the Local Permittees to provide primary policy direction for implementation of the MSHCP, as set forth in Section 6.1.1 of the MSHCP, and Section 11.2.2 of the IA.

Coachella Valley Fringe-toed Lizard Habitat Conservation Plan ("CVFTL HCP"): The CVFTL HCP in the Plan area, dated April 21, 1986, more particularly described in Section 16.2 of the IA.

Coachella Valley Mountains Conservancy ("CVMC"): A state agency within the California Resources Agency.

Complementary Conservation: The land projected to be acquired in the Conservation Areas for Conservation purposes independent of, but compatible with, the MSHCP, as described in Section 4.2.1 of the MSHCP.

Conservation: To use, and the use of, methods and procedures within the MSHCP Reserve System and within the Plan Area as set forth in the MSHCP Plan, that are necessary to bring any species to the point at which the measures provided pursuant to FESA and the California Fish and Game Code are no longer necessary. However, Permittees will have no duty to enhance, restore or revegetate MSHCP Reserve System lands unless required by the MSHCP, the IA, or agreed to through implementation of the Plan.

Conservation Areas: A system of lands described in Section 4.3 of the MSHCP that provides Core Habitat and Other Conserved Habitat for the Covered Species, conserves natural communities, conserves Essential Ecological Processes, and secures Biological Corridors and Linkages between major Habitat areas. There are 21 Conservation Areas from which the MSHCP Reserve System will be assembled.

Conservation Goal(s): A broad statement of intent that describes how the Plan will accomplish the protection of Core Habitat, Essential Ecological Processes, Biological Corridors, and Linkages

in the MSHCP Reserve System to ensure that the Covered Species are adequately conserved. Conservation Goals are also designed to ensure the persistence of natural communities.

Conservation Level: A numerical designation, as described in Section 2.4 of the MSHCP, assigned to all land within the Plan Area.

Conservation Objective(s): Measurable statements of actions or measures that will lead to attainment of the Conservation Goals.

Conservation Strategy: The overall approach to assure Conservation of Covered Species within the Plan Area.

Conserved Habitat: Land that is permanently protected and managed for the benefit of the Covered Species under the institutional arrangements that provide for its ongoing management, and under the legal arrangements that prevent its conversion to other uses.

Core Habitat: The areas identified in the Plan for a given species that are composed of a Habitat patch or aggregation of Habitat patches that (1) are of sufficient size to support a self-sustaining population of that species, (2) are not fragmented in a way to cause separation into isolated populations, (3) have functional Essential Ecological Processes, and (4) have effective Biological Corridors and/or Linkages to other Habitats, where feasible, to allow gene flow among populations and to promote movement of large predators.

County: County of Riverside

County Flood Control: Riverside County Flood Control and Water Conservation District

County Parks: Riverside County Regional Park and Open Space District

County Waste: Riverside County Waste Resources Management District

Covered Activities: Certain activities carried out or conducted by Permittees, Participating Special Entities, Third Parties Granted Take Authorization and others within the MSHCP Plan Area, as described in Section 7 of the MSHCP, that will receive Take Authorization under the Section 10(a) Permit and the NCCP Permit, provided these activities are otherwise lawful.

Covered Species: The species for which Take Authorization is provided through the Permits issued in conjunction with the IA. These species are discussed in Section 9 of the MSHCP, and listed in Exhibit C of the IA.

Critical Habitat: Habitat for species listed under FESA that has been designated pursuant to Section 4 of FESA and identified in 50 C.F.R., Sections 17.95 and 17.96.

Development: The uses to which land shall be put, including construction of buildings, structures, infrastructure, and all associated alterations of the land.

Discretionary Project: A proposed project requiring discretionary action by a Permittee, as that term is used in CEQA and defined in state CEQA Guidelines, Section 15357, including issuance of a grading permit for County projects.

Effective Date: Date on which the IA takes effect, as set forth in Section 19.1 of the IA.

Emergency: A sudden, unexpected occurrence, involving a clear and imminent danger, demanding immediate action to prevent or mitigate the loss of, or damage to, life, health, property, or essential public services. Emergency includes such occurrences as fire, flood, earthquake, or other soils or geologic movements, as well as such occurrences as riot, accident, or sabotage.

Endangered Species: Those species listed as endangered under FESA and/or CESA.

Essential Ecological Processes: Processes that maintain specific Habitat types and are necessary to sustain the Habitat (in a state usable by Covered Species). Essential Ecological Processes may include abiotic hydrological processes (both subsurface and surface), erosion, deposition, blowsand movement, substrate development and soil formation, and disturbance regimes such as flooding and fire; and biotic processes such as reproduction, pollination, dispersal, and migration.

Essential Habitat: Certain lands delineated in the Recovery Plan for Bighorn Sheep in the Peninsular Ranges, California (USFWS 2000).

Existing Conservation Lands: Subset of MSHCP Reserve System lands consisting of lands in public or private ownership and managed for Conservation and/or open space values that contribute to the Conservation of Covered Species, as generally depicted in Figure 4-2 of the MSHCP.

Existing Uses: An existing use, public or private, which is the primary use on the property.

Feasible: Capable of being accomplished in a successful manner within a reasonable period of time, taking into account economic, environmental, legal, social, and technological factors.

Federal Endangered Species Act (FESA): 16 U.S.C., Section 1531 et seq. and all rules and regulations promulgated thereunder, as amended.

Habitat: The combination of environmental conditions of a specific place providing for the needs of a species or a population of such species.

HabiTrak: A GIS application to provide data on Habitat loss and Conservation, which occurs under the Permits.

Implementing Agreement (IA): The executed agreement that implements the terms and conditions of the MSHCP.

Independent Science Advisors (ISA): The qualified biologists, Conservation experts and others that provide scientific input to assist in the planning and implementation of the MSHCP for the benefit of the Covered Species, as set forth in Section 3.1.2 of the MSHCP.

Joint Project Review Process: The review process described in Section 6.6.1.1 of the MSHCP for Development proposed in Conservation Areas.

Land Manager: The entity, or entities, which has the responsibility to manage land acquired by the Permittees as set forth in Section 6.1.5 of the MSHCP.

Land Use Adjacency Guidelines: Standards delineated in Section 4.5 of the MSHCP for land uses adjacent to or within the Conservation Areas that are necessary to avoid or minimize edge effects. "Adjacent" means that a parcel shares a common boundary with a parcel in a Conservation Area.

Legal Instrument: The term "Legal Instrument," as used within the Plan and/or IA, shall refer to recorded legal instruments acceptable to the Wildlife Agencies, which provides legal protection in perpetuity to conservation lands; this legal protection may consist of a conservation easement consistent with California Civil Code Section 815 et seq. or a perpetual deed restriction that meets the requirements of a conservation easement under this statute.

Linkage: Habitat that provides for the occupancy of Covered Species and their movement between larger blocks of Habitat over time, potentially over a period of generations. In general, Linkages are large enough to include adequate Habitat to support small populations of the species and, thus, do not require that an individual of the species transit the entire Linkage to maintain gene flow between populations. What functions as a Linkage for one species may provide only a Biological Corridor or no value for other species. [See also "Biological Corridor."]

Listed Species: A species that is listed under FESA and/or CESA.

Local Development Mitigation Fee: The fee imposed by applicable Local Permittees on new Development pursuant to Government Code, Section 66000 et seq.

Local Permittees: CVCC, CVAG, County, County Flood Control, County Parks, County Waste, CVWD, IID, and the Cities.

Major Amendments: Those proposed amendments to the MSHCP and the IA, as described in Section 20.5 of the IA and Section 6.12.4 of the MSHCP.

Management Program: MSHCP management actions, as described in Section 8 of the MSHCP.

Migratory Bird Treaty Act (MBTA): 50 C.F.R., Section 21 et seq. and all rules and regulations promulgated thereunder, as amended.

Migratory Bird Treaty Act (MBTA) Special Purpose Permit: A permit issued by the USFWS under 50 Code of Federal Regulations section 21.27, authorizing Take, in connection with Covered Activities, under the MBTA of the Covered Species listed in 50 Code of Federal Regulations Section 10.13 that are also listed as endangered or threatened under FESA.

Minor Amendments: Minor changes to the MSHCP and the IA, as defined in Section 20.4 of the IA and Section 6.12.3 of the MSHCP.

Mitigation Lands: A subset of Additional Conservation Lands as described in Sections 4.1 and 4.2.2.2 of the MSHCP.

Monitoring Program: The monitoring programs and activities set forth in Section 8 of the MSHCP.

Monitoring Program Administrator (MPA): The individual or entity responsible for administering the monitoring program, as described in Section 6.1.6 of the MSHCP.

Monitoring Reports: Report(s) prepared pursuant to the requirements of Section 8.7 of the MSHCP.

MSHCP: Synonym for Plan, used in the text where needed for clarity.

MSHCP Reserve System: A reserve that will total approximately 745,900 acres. The MSHCP Reserve System will provide for the Conservation of the Covered Species.

NCCP Act: California Natural Community Conservation Planning Act of 2002 (California Fish and Game Code § 2800 et seq.) including all regulations promulgated thereunder, as amended.

NCCP Permit: The Permit issued under the NCCP Act for the MSHCP to permit the Take of identified species listed under CESA as threatened or endangered, a species that is a candidate for listing, and Non-listed Species.

NEPA: National Environmental Policy Act, (42 U.S.C., Section 4321-4335) and all rules, regulations promulgated thereunder, as amended. For the purposes of the MSHCP, USFWS is the Lead Agency under NEPA, as defined in 40 C.F.R., Section 1508.16.

Non-Listed Species: A species that is not listed under FESA and/or CESA.

No Surprises Assurance: The guarantee that, provided Permittees are properly implementing the terms and conditions of the MSHCP, the IA, and the Permit(s), the USFWS can only require additional mitigation for Covered Species beyond that provided for in the MSHCP as a result of Unforeseen Circumstances in accordance with the "No Surprises" regulations at 50 C.F.R., Sections 17.22(b)(5) and 17.32(b)(5) and as discussed in Section 6.8 of the MSHCP.

Operation and Maintenance Activities (O&M): Those Covered Activities that include the ongoing operation and maintenance of public facilities, as described in Section 7.3.1.1 of the MSHCP.

Other Conserved Habitat: Part of a Conservation Area that does not contain Core Habitat for a given species, but which still has Conservation value. These values may include Essential Ecological Processes, Biological Corridors, Linkages, buffering from edge effects, enhanced species persistence probability in proximate Core Habitat, genetic diversity, recolonization potential, and flexibility in the event of long-term Habitat change.

Participating Special Entity: Any regional public service provider, such as a utility company or a public district or agency, that operates and/or owns land within the MSHCP Plan Area and that applies for Take Authorization pursuant to Section 11.7 of the IA.

Party and Parties: The signatories to the IA, namely CVAG, CVCC, County, County Flood Control, County Parks, County Waste, the Cities, CVWD, IID, Caltrans, CVMC, State Parks, USFWS, and CDFG and any other city within the Plan Area that incorporates after the Effective Date and complies with Section 11.5 of the IA.

Permit(s): Collectively, the Section 10(a)(1) Permit and NCCP Permit issued by the Wildlife Agencies to Permittees for Take of Covered Species pursuant to FESA and the NCCP Act and in conformance with the MSHCP and the IA.

Permittees: CVAG, CVCC, County, County Flood Control, County Parks, County Waste, the Cities, CVWD, IID, Caltrans, CVMC, and State Parks.

Plan: Coachella Valley Multiple Species Habitat Conservation Plan, a comprehensive multiple species habitat conservation planning program that addresses multiple species' needs, including Habitat and the preservation of natural communities in the Coachella Valley area of Riverside County, California, as depicted in Figure 4-1 in Section 4.1 of the MSHCP and Exhibit "A" of the IA.

Plan Area: The boundaries of the MSHCP, consisting of approximately 1.2 million acres in the Coachella Valley area of Riverside County, as depicted in Figure 2-2 of the MSHCP Plan, and Exhibit B of the IA.

Planning Agreement: The Memorandum of Understanding prepared consistent with the NCCP Act to guide development of the MSHCP that is contained in Appendix II of the MSHCP.

Plan Participants: CVAG, CVCC, County, County Flood Control, County Parks, County Waste, the Cities, CVWD, IID, Caltrans, CVMC, State Parks, and others receiving Take Authorization under the Permits.

Private Conservation Land: Land owned by a non-governmental entity committed to Conservation in perpetuity through deed restriction, conservation easement, or other binding agreement satisfactory to CDFG and USFWS.

Reserve Lands: Existing Conservation Lands, Additional Conservation Lands, and Complementary Conservation.

Reserve Management Oversight Committee (RMOC): The committee established by the CVCC to provide biological, technical and operational expertise for implementation of the MSHCP, including oversight of the MSHCP Reserve System, as described in Section 6.1.3 of the MSHCP.

Reserve Management Unit (RMU): The units identified in Section 6.1.4 of the MSHCP.

Reserve Management Unit Plan (RMUP): The plan setting forth management practices for identified portions of the MSHCP Reserve System Area, prepared and adopted as described in Section 6.2 of the MSHCP.

Reserve System: A synonym for MSHCP Reserve System.

Reserve System Assembly: The process of conserving lands within the Conservation Areas through acquisition or other means to assemble the MSHCP Reserve System.

Rough Step: A Conservation Area assembly accounting process to monitor Conservation and loss of specified Habitats within the Plan Area.

Rough Step Analysis Unit: A geographic unit within which Rough Step is tracked. The Conservation Areas are the Rough Step Analysis Units.

Scientific Advisory Committee (SAC): The committee of scientists that provided scientific input into the development of the Plan, as described in Section 3.1.1.

Section 10(a) Permit: The permit issued by the USFWS to Permittees pursuant to 16 U.S.C., Section 1539(a), authorizing Take of Covered Species.

Special Provisions Area: Provisions that apply to a given location or area, identified by a location description or in a figure, which address specific conditions necessary to achieve Conservation in that location or area.

Species Conservation Goal(s): Goals for the Conservation of each Covered Species described in Section 9 of the MSHCP.

State Assurances: Except as provided in Section 15.5 of the IA, provided Permittees are implementing the terms and conditions of the MSHCP, the IA, and the Permits, if there are Unforeseen Circumstances, CDFG shall not require additional land, water or financial compensation, or additional restrictions on the use of land, water, or other natural resources for the life of the NCCP Permit without the consent of the Permittees, unless CDFG determines that continued implementation of the IA, the MSHCP, and/or the Permits would jeopardize the continued existence of a Covered Species, or as required by law and would therefore lead to NCCP Permit revocation or suspension.

State Permittees: Caltrans, CVMC, and State Parks.

Take: The definition of such term in FESA and the California Fish and Game Code. Section 9 of FESA does not prohibit Take of Federally Listed plants.

Take Authorization: The ability to incidentally Take species pursuant to the Section 10(a)(1)(B) Permit and/or the NCCP Permit.

Third Party Take Authorization: Take Authorization received by a landowner, developer, or other public or private entity from the Permittees pursuant to Section 17 of the IA, thereby receiving Take Authorization for Covered Species pursuant to the Permits.

Threatened Species: Those species listed as threatened under FESA and/or CESA.

Unforeseen Circumstances: Changes in circumstances affecting a Covered Species or geographic area covered by the MSHCP that could not reasonably have been anticipated by the Parties at the time of the MSHCP's negotiation and development, and that result in a substantial and adverse change in the status of the Covered Species. As defined, the term is intended to have the same meaning as it is used: (1) to define the limit of the Permittees' obligation on the "No Surprises" regulations set forth in 50 C.F.R., Sections 17.22 (b)(5) and 17.32 (b)(5); and (2) in California Fish and Game Code, Section 2805(k).

United States Fish and Wildlife Service (USFWS): An agency of the United States Department of the Interior.

Wildlife Agencies: USFWS and CDFG, collectively.