Miki Basin Industrial Park Environmental Assessment

Exhibit E

**Economic and Fiscal Impact Assessment** 

PROPOSED MIKI BASIN INDUSTRIAL PARK: ECONOMIC AND FISCAL IMPACT ASSESSMENT

PROPOSED MIKI BASIN INDUSTRIAL PARK: ECONOMIC AND FISCAL IMPACT ASSESSMENT

PREPARED FOR:

Pūlama Lāna'i

PREPARED BY:

Plasch Econ Pacific Inc. and Munekiyo Hiraga

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#### **EXECUTIVE SUMMARY**

#### 1. PROPOSED DEVELOPMENT

Miki Basin Industrial Park ("the Project") is a proposed master-planned development on a 200-acre site located in the Miki Basin area on the island of Lāna'i, Hawai'i. The project will include approximately 100 acres of light industrial and 100 acres of heavy industrial zoned lands.

Development of the Project is expected to occur over a period of about 30 years, but development could require more or less time, depending on the pace of future economic and population growth, market conditions and lot sales.

Based on expected economic and population growth over the next 30 years, there will be a need for industrial zoned lands on the island of Lāna'i as there is none available at the present time. This industrial land will provide space for the growth of new businesses.

#### 2. CONSUMER AND BUSINESS BENEFITS

The project will provide light industrial and heavy industrial space as well as warehouse and baseyard space for existing and new businesses on Lāna'i. These businesses will generate sales in the local economy and provide support employment.

#### 3. SOCIO-ECONOMIC CONDITIONS

According to the U.S. Census Bureau's five-year estimates, between 2013 and 2017, the island of Läna'i had a resident population of approximately 3,203 residents, representing 1.95% of the County of Maui's population. With an average household size of 2.57 people per household, households on Läna'i are slightly smaller than households in the County as a whole. The mean household income on the island is estimated at \$67,944, 38.3% lower than the County of Maui. An estimated 53.4% of Läna'i residents attended some college or received a higher education degree. Between 2013 and 2017, 68.9% of households on the island of Läna'i speaks only English at home.

#### 4. EMPLOYMENT BENEFITS

#### a. Construction and Related Employment

During the Project's 30-year development period, construction employment is expected to average about 28 jobs per year. Due to the limited construction labor force on the island of Lāna'i, it is assumed that the majority of the construction workers will come from offisland. MIKI BASIN INDUSTRIAL PARK: SOCIO-ECONOMIC CONDITIONS, ECONOMIC IMPACTS, AND FISCAL IMPACTS

Indirect employment related to Project development is expected to average about 39 jobs per year. Thus, total direct-plus-indirect employment associated with Project development activities will average about 67 jobs per year. The actual job count will fluctuate over time, depending on the pace of construction.

#### b. Operating Employment

Onsite operating employment is expected to grow to approximately 360 net new jobs at full development. These jobs will include entry-level positions to highly skilled professionals.

#### 5. FISCAL BENEFITS

#### a. County

Project development activity is expected to have a negligible impact on County finances inasmuch as the developer will provide or pay its fair-share of support infrastructure (interior roads, water distribution, sewerlines, drainage, etc.).

At full development, the Project is expected to generate net income to the County of approximately \$2.0 million per year. Net revenues are positive largely because of the property taxes.

Inasmuch as the Miki Basin Industrial Park is expected to be developed in conjunction with forecasted population growth for Läna'i, the County is not expected to realize significant additional increases in expenditures as a direct result of the project.

#### b. State

Unlike the County, the State derives substantial net revenues from development activity. Over the estimated 30-year construction period, the State will net about \$28.3 million from construction and related economic activities associated with the Project, or an average of about \$0.94 million per year.

At full development, the Project is expected to generate net income to the State of about \$1.9 million per year. The positive return to the State reflects the various taxes on economic activities associated with the Miki Basin Industrial Park. As with County services, additional State expenditures are not anticipated to be required to support operations for the project.

# MIKI BASIN INDUSTRIAL PARK: Socio-economic Conditions, Economic Impacts, and Fiscal Impacts

#### 1. INTRODUCTION

#### a. Content and Purpose

Miki Basin Industrial Park ("the Project") is a proposed master-planned development on a 200-acre site located in the Miki Basin area on the island of Läna'i, Hawai'i. The Project will include 100 acres of light industrial and 100 acres of heavy industrial zoned lands.

This report addresses the economic and fiscal benefits and impacts of the Project. Its purpose is to provide State and County officials with information relevant to their decisions about development approvals.

The economic impacts cover sales and expenditures, profits, employment, and payroll related to (1) construction and related activities, and (2) operations at full development of the Project.

Fiscal impacts address the impact of the Project on County and State revenues and expenditures. The material covers the increase in County and State tax revenues, the increase in government support expenditures, and the resulting net revenues to the County and State.

#### b. Methodology

#### Data Sources

Socioeconomic data for the County of Maui and the island of Läna'i was obtained from the U.S. Census Bureau's 2010 Decennial Census and the American Community Survey 2013-2017 five-year estimates. The American Community Survey is an ongoing survey conducted by the Census Bureau that provides data annually on a broad range of social, economic, demographic, and housing characteristics. The multiyear estimates provide increased statistical reliability for less populated areas. The American Community Survey's five-year estimates provide data on various socioeconomic characteristics for the island of Läna'i that are not readily available from other data sources, many of which do not report on the sub-county level. Where available, 2017 data is also cited from the 2017 Maui County Data Book for comparison.

#### Multipliers

The proposed development is translated into economic and fiscal impacts based on a number of multipliers (for example, indirect sales as a percentage of direct sales, jobs per \$1 million in sales, indirect jobs per direct jobs, and tax rates). These multipliers reflect the MIKI BASIN INDUSTRIAL PARK: SOCIO-ECONOMIC CONDITIONS, ECONOMIC IMPACIS, AND FISCAL IMPACIS

professional judgment of the consultant, and were derived based on information from the following sources: other projects similar to this proposed Project; U.S. Census data; the State of Hawai'i Data Book; the Maui County Data Book; The 2012 Input-Output Study for Hawai'i; The Hawai'i Inter-County Input-Output Study: 2012 Benchmark Report; employment and labor rates from the State Department of Labor and Industrial Relations (DLIR); County and State tax rates; and revenue and expenditure data from the County and the State.

#### 2018 Dollars

Throughout the report, dollar amounts are expressed in terms of 2018 purchasing power and market conditions. Values, prices, costs and dollar amounts for prior years are adjusted for inflation to 2018 dollars based on the Honolulu Consumer Price Index (CPI) for Urban Consumers. Dollar amounts after 2018 are <u>not</u> increased to account for inflation, appreciation in property values, changes in labor rates, changes in building costs, or other changes in market conditions.

#### Accuracy of Estimates

Much of the analysis contained in this report is quantitative in nature, where numbers are used to help communicate anticipated impacts. However, these numbers should not be interpreted as precise predictions. Rather, they represent the best estimates of what is expected to occur based on available information about future development, market conditions, and tax rates. As a general rule, economic and fiscal impact estimates in this report are accurate within about 20%.

It is noted that some parameters are not estimated in this report because values are nominal and anticipated to have an insignificant impact on economic and fiscal impacts.

#### c. Organization of the Report

The material below gives the following information about the Project and its economic and fiscal impacts: a description of the Project, demographic characteristics, income, and education, the economic impacts of construction and related activities, the economic impacts of Project operations at full development, the impact on County revenues and expenditures, the impact on State revenues and expenditures, and a summary of major economic and fiscal benefits.

The detailed assumptions, multipliers, and calculations are shown in seven (7) tables at the end of the report. These tables cover the following:

- Table 1: Proposed Development
- Table 2: Demographic Characteristics
- Table 3. Income and Education
- Table 4: Economic Impacts of Development Activities
- Table 5: Economic Impacts of Operations at Full Development

# MIKI BASIN INDUSTRIAL PARK: SOCIO-ECONOMIC CONDITIONS, ECONOMIC IMPACIS, AND FISCAL IMPACIS

#### - Table 6: Impacts on County Revenues and Expenditures

- Table 7: Impacts on State Revenues and Expenditures

The quantities appearing in **bold** in the tables highlight the more significant economic and fiscal impacts.

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#### d. Economic Consultant

The analysis was conducted by Plasch Econ Pacific LLC, a Hawai'i-based economicconsulting firm specializing in economic development, land and housing economics, feasibility studies, valuations, market analysis, public policy analysis, and the economic and fiscal impacts of projects. The work was done in partnership with Munekiyo Hiraga, a Hawai'i based planning consulting firm.

#### 2. PROJECT DESCRIPTION

#### a. Project Location and Area

The Project will be located on an approximately 200-acre site in Miki Basin on the island of Lāna'i, east of the Lāna'i Airport. The site is about 3 miles southwest of Lāna'i City (see Figures 1, 2 and 3).

#### b. Development Period

Development of the Project is expected to occur over a period of about 30 years, but development could require more or less time, depending on the pace of future economic and population growth, market conditions and lot sales.

#### c. Project Components

As shown in Table 1, the Project will include the following components:

100 acres light industrial area

- Light industrial uses
- Warehouses
- Baseyards
- Reserve

- Roadways and common areas

#### 100 acres heavy industrial area

- Heavy industrial uses
- Warehouses
- Utility facilities, Major

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- Baseyards
- Reserve
- Roadways and common areas

Generally, communities of this size have the following types of light industrial uses: cold storage plants, commercial laundries, craft cabinet and furniture manufacturing, general food, fruit, and vegetable processing and manufacturing plants, laboratories, machine shop or other metal working shop, small boat building, tire repair operation, warehouse, storage and loft building, minor utility facilities etc. The heavy industrial uses in communities of this size would include automobile wrecking, lumber yard, machine shops, major utilities facilities, etc.

Based on expected economic and population growth over the next 30 years, there will be a need for industrial zoned lands on the island of Lāna'i as there is none available at the present time. This industrial land will provide space for the growth of new businesses.

#### 3. SOCIO-ECONOMIC CONDITIONS

#### a. Socio-Economic Conditions, County of Maui

Tables 2 and 3 summarize socio-economic conditions for the County of Maui, as well as the island of Lāna'i which is discussed in the next section. The County of Maui consists of the islands of Maui, Lāna'i, Moloka'i, Kaho'olawe, and Molokini.

#### Population

According to the 2017 Maui County Data Book, the 2017 population of the County of Maui was 166,260 residents. The American Community Survey's five-year estimate reports that between 2013 and 2017, the County of Maui's population was about 164,094 residents, up 6.0% since 2010 (see Table 2). Residents include those who live full-time or permanently in the County, and exclude visitors and part-time residents (i.e., those who reside most of the time in a primary home located elsewhere).

The total County population amounted to approximately 11.5% of the State population between 2013 and 2017—the second smallest of the four (4) counties.

#### Population Characteristics and Distribution

The County of Maui's population is racially diverse (see Table 2). Between 2013 and 2017, white residents were estimated to comprise 35.5% of the County's population, while Asians maked up 29.0%, people of two or more races represented 23.0%, and Native Hawaiian and Other Pacific Islanders constituted 10.7%.

The estimated median age of the County residents was 40.9 years old between 2013 and 2017. Similar to the national demographic trends, the County of Maui's population is slightly aging. In 2010, the median age was 39.6 years old.

#### MIKI BASIN INDUSTRIAL PARK: SOCIO-ECONOMIC CONDITIONS, ECONOMIC IMPACIS, AND FISCAL IMPACIS

#### Households

The average household size of the County of Maui was estimated to be 2.97 people per household between 2013 and 2017, which increased since 2010 (see Table 2). Approximately 59.3% of the County's households were estimated to be homeowners between 2013 and 2017. An estimated 68.5% of the households in the County are family households.

#### Housing

Between 2013 and 2017, the County of Maui had an estimated 72,093 housing units, up 2.4% from 2010 (see Table 1). This figure includes resort/residential units that were used as second homes, or were available for visitors, or were vacant. Approximately 24.6% of housing units in the County were estimated to be vacant. In the 2010 Census, 23.4% of housing units of the County were vacant, including 14.1% that were for seasonal, recreational, or occasional use.

#### Income and Education

Table 3 provides information on income levels and education for the residents of the County of Maui. The mean household income between 2013 and 2017 was estimated to be \$93,964. An estimated 92.2% of the residents of the County were estimated to have high a school degree or higher between 2013 and 2017. About 77.6% of the households in the County speak only English at home, comparable to 2010 figures.

#### b. Socio-Economic Conditions, Island of Lana'i

#### **Population and Distribution**

Between 2013 and 2017, the island of Lāna'i was estimated to have a resident population of approximately 3,203, or 1.95% of the County's population. The population on Lāna'i grew at a slightly slower rate than the County as a whole, increasing by 2.2% from 3,135 residents in 2010 (See Table 2). The Lāna'i Community Plan, which was updated and approved by the Maui County Council in 2016, notes that an additional 885 residents are forecasted to live on the island by the year 2030, for a total population of 4,020 (based on the County's Land Use Forecast produced in December 2012).

Between 2013 and 2017, Asian residents were estimated to comprise a higher proportion of the Lāna'i population compared to the County as a whole; 54.1% of residents were estimated to be Asians compared to 29.0% of residents in the County (Table 2).

The resident profile of the island of Lāna'i is older than that of the County as a whole. The median age on the island of Lāna'i is estimated to be 46.3 years old between 2013 and 2017 compared to 40.9 years old in the County.

#### **Households**

The average household size on the island of Lāna'i is estimated to be 2.57 people per household between 2013 and 2017—a slight decrease from 2.71 people per household in 2010 (Table 1). On average, households on Lāna'i are slightly smaller than households in the County as a whole (2.97 people per household between 2013 and 2017).

MIKI BASIN INDUSTRIAL PARK: SOCIO-ECONOMIC CONDITIONS, ECONOMIC IMPACIS, AND FISCAL IMPACIS

#### Housing

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Between 2013 and 2017, the island of Lāna'i had an estimated 1,561 housing units (Table 2). The island of Lāna'i had a slightly lower proportion of vacant housing units than the County of Maui as a whole. Approximately 20.2% of housing units is estimated to be vacant on Lāna'i, compared to 24.6% in the County.

#### Income and Education

The mean household income on the island of Lāna'i between 2013 and 2017 was estimated at \$67,944, 38.3% lower than the County of Maui as a whole (Table 3). Correspondingly, Lāna'i has a lower per-capita income. A slightly lower proportion of residents on the island of Lāna'i completed some secondary education compared to the island as a whole. An estimated 53.4% of Lāna'i residents attended some college or received a higher education degree, compared to 60.7% of the residents of the County as a whole. Between 2013 and 2017, 68.9% of the households on the island of Lāna'i spoke only English at home, while 31.1% spoke Asian and Pacific Island languages.

#### 4. ECONOMIC IMPACTS OF DEVELOPMENT ACTIVITIES

The development of the Project will involve the following activities: (1) grading and other work to prepare the site for development; (2) construction of internal roads, a water delivery system, sewer systems, drainage systems, utilities systems, etc.; (3) sale of lots to component developers; and (4) construction of buildings. Table 4 summarizes the direct and indirect economic impacts of these development activities. The material in this table gives the development period, construction expenditures, indirect sales generated by the construction activity, property sales, profits, and employment and payroll.

#### a. Development Period

As indicated in Section 4.a of Table 4, the assumed development period is approximately 30 years. Given the current economy and population, along with projected growth, significant demand for industrial space is expected during this period. However, development could require more or less time, depending on future market conditions, lot sales, and the construction of buildings.

#### b. Construction Expenditures and Related Sales

Over the 30-year development period, total construction expenditures for the Project are estimated at about \$339.6 million (see Section 4.b of Table 4 for cost assumptions). This translates into average construction expenditures of about \$11.3 million per year. In practice, construction expenditures will vary from year to year. Infrastructure costs will occur in the early years of development as the backbone infrastructure is installed. Construction costs associated with buildings will be realized over time as the lots are absorbed and developed.

#### MIKI BASIN INDUSTRIAL PARK: SOCIO-ECONOMIC CONDITIONS, ECONOMIC IMPACIS, AND FISCAL IMPACIS

In addition to construction costs, other development costs will be incurred for planning, permitting, design, financing, County and State exactions, marketing, and sales commissions.

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In addition to construction expenditures, development activities will generate indirect sales associated with supplying goods and services to construction companies and to the families of construction workers. In turn, the companies supplying goods and services, and the families of their employees, will purchase goods and services from other companies, and so on. These indirect sales will include sales by companies supplying building materials (cement, steel, lumber, roofing materials, plumbing equipment, electrical equipment, hardware supplies, lighting, flooring, etc.); rent out construction equipment; repair equipment; provide warehousing services; provide shipping and trucking services; etc. Indirect sales also include sales by grocery stores, drug stores, restaurants, service stations, beauty salons, medical providers, accountants, attorneys, insurance agents, etc.

Based on State economic multipliers, these indirect sales are expected to average about \$6.0 million per year, of which about \$3.6 million per year will be on the island of Lāna'i and about \$2.4 million on O'ahu (see Section 4.b of Table 4.).

Construction expenditures and indirect sales related to construction are expected to average about \$17.4 million per year. About \$13.7 million per year will be subject to the State 4% excise tax on final sales, while about \$3.7 million per year will be subject to the 0.5% excise tax on intermediate sales. Depending upon market conditions, development and sales in some years may be much higher or lower than the average.

#### c. Land Values and Sales

It is expected that the lots within the Miki Basin Industrial Park will be sold to individual businesses for their use, or to developers. Total land sales are estimated at \$105 million (see Section 4.c. of Table 4).

#### d. Profits

Profits on construction expenditures and related sales are estimated at about \$2.3 million per year (see Section 4.d. of Table 4). These profits will accrue to the various construction companies and subcontractors, and to the various companies that sell goods and services to those companies and families benefiting from the construction activity.

#### e. Employment

During the Project's 30-year development period, construction employment is expected to average about 28 jobs per year (see Section 4.e. of Table 4). These jobs will include supervisors, heavy-equipment operators (grading, roads, water mains, sewerlines, etc.), cement workers to lay foundations, metal workers, carpenters, plumbers, electricians, roofers, glass and window installers, cabinet makers, carpet and tile layers, painters, equipment installers, interior decorators, landscapers, etc. Other jobs related to construction will include MIKI BASIN INDUSTRIAL PARK: SOCIO-ECONOMIC CONDITIONS, ECONOMIC IMPACIS, AND FISCAL IMPACIS

architects, civil engineers, draftsmen, government inspectors, etc. These jobs will range over a variety of skill levels, including entry-level, semi-skilled, skilled, management, and professional positions.

As with indirect sales, development activities will generate indirect jobs associated with supplying goods and services to construction companies and to the families of construction workers. In turn, the companies supplying goods and services, and the families of their employees, will purchase goods and services from other companies, and so on. Indirect jobs will include those at companies supplying building materials (cement, steel, lumber, roofing materials, plumbing equipment, electrical equipment, hardware supplies, lighting, flooring, etc.); rent construction equipment; repair equipment; provide warehousing services; provide shipping and trucking services; etc. Other indirect jobs will include those involved with supplying goods and services to employees and their families: grocery workers, store clerks, restaurant workers, service-station workers, beauty technicians, barbers, bankers, pharmacists, veterinarians, computer technicians, medical workers, accountant attorneys, etc. The jobs will range over a variety of skill levels, including entry-level, semi-skilled, skilled, and management positions.

Based on State employment multipliers, indirect employment related to Project development is expected to average about 39 jobs per year.

Thus, total direct-plus-indirect employment associated with Project development activities will average about 67 jobs per year.

#### f. Payroll

Development activities are expected to generate a total payroll of about \$4.2 million per year for the Project, of which about \$2.5 million will be for construction workers, and about \$1.8 million for indirect employment (see Section 4.f. of Table 4). These estimates are based on the average number of direct and indirect jobs multiplied by average wages as reported to the DLIR.

Wages are expected to average about \$89,000 per year for construction jobs and about \$45,000 for indirect jobs.

#### g. Sources of Construction Workers

The construction labor force on the island of Lāna'i is limited. As such, it is assumed that a mix of on-island and off-island construction workers will fill the various jobs generated by the proposed development. In the past, construction workers have commuted to Lāna'i to fill the labor requirements of building projects.

#### 5. ECONOMIC IMPACTS OF OPERATIONS AT FULL DEVELOPMENT

Table 5 summarizes economic impacts of the Miki Basin Industrial Park at full development.

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#### a. Onsite Economic Activities

Because some of the businesses that occupy the proposed development are anticipated to be businesses that relocate from elsewhere on Lāna'i, information is provided for both onsite economic activities and net new economic activities. It is assumed that there are some businesses operating out of homes and garages and will relocate and expand to the proposed Miki Basin Industrial Park. Assuming 5% of Lāna'i households have in-home businesses that may relocate and each of those businesses require approximately 1,000 square feet, it is estimated that about 62,300 square feet of light industrial space will be for existing businesses. As a result, the project would generate net new light industrial space in the amount of 237,700 square feet. It is assumed that all of the heavy industrial space, warehouses, and baseyards will be for new businesses.

#### **Revenues and Profit**

At full development, onsite economic activities are expected to generate about \$90.0 million per year in revenues. Net new revenues is estimated at \$80.7 million.

Corresponding onsite profits will amount to about \$9.0 million per year at full development. Net new profits are estimated at \$8.1 million per year.

#### Employment and Payroll

Onsite operating employment is expected to total over approximately 400 jobs, including 360 net new jobs.

The jobs will range over a variety of skill levels, including entry-level, semi-skilled, skilled, highly skilled professionals, and management positions. Total onsite payroll for these jobs is estimated at about \$18.0 million per year, of which \$16.2 million would be net new income.

#### b. Sources of Professional and Skilled Workers

As the Miki Basin Industrial Park will be developed over a period of many years, professionals and skilled workers will be recruited from the various public and private universities, colleges, technical schools, companies, and other organizations in Hawai'i and on the mainland. The jobs will appeal to professionals and skilled workers who want to apply their training and skills and remain in Hawai'i or return to Hawai'i.

Programs to increase the supply of professionals and skilled workers are the responsibility of the various universities, colleges, and technical schools.

#### c. Supported Population

Jobs within the Miki Basin Industrial Park will support approximately 930 residents in 360 homes (see Section 5.f of Table 5).

MIKI BASIN INDUSTRIAL PARK: SOCIO-ECONOMIC CONDITIONS, ECONOMIC IMPACIS, AND FISCAL IMPACIS

#### d. Rental Income

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It is assumed that the majority of businesses within the Miki Basin Industrial Park will own their lots. While some lots may be leased to tenants and generate rental income, rent revenue is expected to be nominal and is not estimated.

#### 6. IMPACTS ON COUNTY REVENUES AND EXPENDITURES

The impact of the Project on County finances is shown in Table 6. This table summarizes: (1) changes in the County's tax and expenditure base which is used to calculate revenues and expenditures, (2) revenues and expenditures related to development activities, and (3) revenues and expenditures related to operations at full development of the Project.

#### a. Development Activities

The County derives negligible tax revenues from development activity.

Regarding County expenditures to support the Project, they also are expected to be negligible. As with other major projects in the County, the developer and builders will provide or finance their fair shares of infrastructure and facilities to support the Project. This will include interior roads, interior water distribution, sewer systems, drainage systems, etc. Also, construction activities require few onsite services from the County. Furthermore, construction companies will provide their own security, sanitation, transportation, etc.

As a result, Project development activity will result in a negligible impact on County finances during the development period.

#### b. Operations at Full Development

At full development, the Project will generate increased property tax revenues to the County of about \$2.0 million per year (Table 6, Section 6.b). A nominal amount of other revenue from other taxes and user fees may be generated but is not estimated.

Inasmuch as the Miki Basin Industrial Park is expected to be developed in conjunction with forecasted population growth for Lāna'i, the County is not expected to realize significant additional increases in expenditures as a direct result of the project. As a result, the Project is projected to generate about \$2.0 million per year in net revenues to the County.

#### 7. IMPACTS ON STATE REVENUES AND EXPENDITURES

The impact of the Project on State finances is shown in Table 7. This table summarizes: (1) changes in the State's tax and expenditure base which is used to calculate revenues and expenditures, (2) revenues and expenditures related to development activities, and (3) revenues and expenditures related to operations at full development.

MIKI BASIN INDUSTRIAL PARK: SOCIO-ECONOMIC CONDITIONS, ECONOMIC IMPACIS, AND FISCAL IMPACIS

#### a. Development Activities

Unlike the County, the State derives substantial revenues from development activity. Over the 30-year development period, Project development activities are expected to generate about \$28.3 million in revenues for the State, for an average of about \$0.94 million per year (Table 7, Section 7.a). Most of the revenues will be derived from (1) excise taxes, (2) corporate and personal income taxes, and (3) conveyance taxes. There are no State Department of Education (DOE) school impact fees for the island of Läna'i.

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State expenditures to support Project development activities are expected to be negligible. Infrastructure and facilities to support the Project are primarily a County responsibility, with most of the fair share provided or financed by the developer. Also, Construction activities will require few onsite services from the State. Furthermore, most required services will be provided by construction companies.

Over the 30-year development period, the State will net about \$28.3 million from development activities associated with the Project, for an average of about \$0.94 million per year.

#### b. Operations at Full Development

At full development, the Project will generate increased revenues to the State of about \$1.9 million per year (Table 7, Section 7.b). State revenues will include excise taxes, corporate and personal income taxes.

Additional State expenditures are not anticipated to be required to support operations for the project.

At full development, the Project is projected to generate about \$1.9 million per year in net revenues to the State. The positive return to the State reflects the various taxes on economic activity associated with the light industrial and heavy industrial uses.

#### 8. REFERENCES

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FIGURES



Figure 1. Regional Location Map



Figure 3. Site Plan

#### Table 1. Proposed Development (Values in 2018 dollars)

lium	Source or Multiplier	Amount	Units
1.a. LAND AREA			
Light Industrial Anas	Pulama Lanai	100.0	80795
Light industrial Uses		20.0	80786
Warehouses		10.0	acres
Baweyards		20.0	80766
Reserve		20.0	80195
Roadways and common areas		30.0	80785
Heavy Industrial Area	Pulama Lanal	100.0	80198
Heavy Industrial Uses		20.0	80795
Warehouses		10.0	80785
Baseyarda		20.0	80195
Reserve		20.0	80786
Roadways and common areas		30.0	80165
Total Area Developed		200.0	30785
1.b. BUILDING SQUARE FOOTAGE			
Light Industrial Area			
Light Industrial Uses	15,000 sq ft per acre	300,000	sq. ft.
Warshoulds	15,000 sq ft per acre	150,000	sq. ft.
Baseyards			84. ft.
Reserve			sq.ft.
Heavy Industrial Area		[] [	
Heavy Industrial Uses	15,000 sq ft per sore	300,000	sq.ft.
Warshouses	15,000 sq ft per acre	150,000	89. ft.
Baseyards			sq.ft.
Reserve			sq. ft.
Total Building Square Footage		980,800	84. fL

TABLES

### Table 2. Demographic Characteristics, County of Maul and Island of Lana'i: 2010 and 2012-2017 Estimates

No. 1	C	County of Maul			Lana 1		
ICAM		2012-2017	Change	2010	2013-2017	Change	
Population (residents)	154,834	164,094	6.0%	3,135	3,203	2.2%	
Male	77,587	81,933	5.6%	1,600	1,617	1.1%	
Female	77,247	82,161	6.4%	1,535	1,586	3.3%	
Distribution							
Male	50.1%	49.8%		51.0%	50.5%		
Female	49.9%	50.2%		49.0%	49.5%		
Population by Age							
Pre-school Age, 4 and Under	10,020	10,179	1.6%	235	185	-21.3%	
School Age, 5 to 19	29,117	29,431	1.1%	621	549	-11.6%	
Working Age, 20 to 64	95,894	98,011	2.2%	1,805	1,871	3.7%	
Retirement Age, 65 and Over	19,803	26,473	33.7%	474	598	26.2%	
Distribution							
Pre-school Age, 4 and Under	6.5%	6.2%		7.5%	5.8%		
School Age, 5 to 17	18.8%	17.9%		19.8%	17.1%		
Working Age, 18 to 64	61.9%	59.7%		57.6%	58.4%		
Retirement Age, 65 and Over	12.8%	16.1%		15.1%	18.7%		
Median Age	39.6	40.90	3.3%	38.6	46.30	19.9%	
Ethnicity							
White alone	53,336	58,275	9.3%	460	546	18.7%	
Black or African American alone	870	933	7.2%	5	65	1200.0%	
American Indian and Alaska Native alone	603	279	-53.7%	2	0	-100.0%	
Asian alone	44,595	47,591	6.7%	1,745	1,733	-0.7%	
Native Hawaiian and Other Pacific Islander alone	16,051	17,477	8.9%	205	292	42.4%	
Some Other Race alone	3,051	1,792	-41.3%	5	0	-100.0%	
Two or More Races	36,328	37,747	3.9%	713	567	-20.5%	
Distribution	6-4478Gec	AND ADDRESS OF	ACREMENTO	ACROADOOD	ASICO/WE 2		
White alone	34.4%	35.5%		14.7%	17.0%		
Black or African American alone	0.6%	0.6%		0.2%	2.0%		
American Indian and Alaska Native alone	0.4%	0.2%		0.1%	0.0%		
Asian alone	28.8%	29.0%		55.7%	54.1%		
Native Hawaiian and Other Pacific Islander alone	10.4%	10.7%		6.5%	9.1%		
Some Other Race alone	2.0%	1.1%		0.2%	0.0%		
Two or More Races	23.5%	23.0%		22.7%	17.7%		

#### Table 2. Demographic Characteristics, County of Maul and Island of Lana'i: 2010 and 2018 Estimates (continued)

Item		ounty of Ma	ul			
IGHTI	2010	2012-2017	Change	2010	2013-2017	Change
Households	53,886	54,381	0.9%	1,158	1,246	7.6%
Average Size	2.82	2.97	5.3%	2.71	2.57	-5.2%
Tenure		7373 X 40	¥18-177	100.00		10000
Homeowners	30,055	32,248	7.3%	591	642	8.6%
Renters	23,831	22,133	-7.1%	567	604	6.5%
Distribution						
Homeowners	55.8%	59.3%		51.0%	51.5%	
Renters	44.2%	40.7%		49.0%	48.5%	
Household Type						
Family Household	35,498	37,230	4.9%	788	846	7.4%
Non-Family Household	18,388	17,151	-6.7%	370	400	8.1%
Distribution						
Family Household	65.9%	68.5%		68.0%	67.9%	
Non-Family Household	34.1%	31.5%		32.0%	32.1%	
Housing Units	70,379	72,093	2.4%	1,545	1,561	1.0%
Occupied	53,886	54,381	0.9%	1,158	1,246	7.6%
Vacant	16,493	17,712	7.4%	387	315	-18.6%
For seasonal, recreational, or occasional use	9,956	n/a		108	n/a	
Distribution						
Occupied	76.6%	75.4%		75.0%	79.8%	
Vacant	23.4%	24.6%		25.0%	20.2%	
For seasonal, recreational, or occasional use	14.1%	n/a		7.0%	n/a	

Sources:

U.S. Censusu Bureau, Decennial Census, 2010.

U.S. Census Bureau. American Community Survey 5 Year Estimate, 2012-2017.

Marco -	Co	ounty of Maui		Lana 1		
	2008-2012	2013-2017	Change	2008-2012	2013-2017	Change
Income						
Mean Household Income	\$83,535	\$93,964	12.5%	\$67,656	\$67,944	0.4%
Per Capita Income	\$29,493	\$32,379	9.8%	\$22,015	\$27,698	25.8%
Educational Attainment, 25 Years and Older						
Less than 9th Grade	5,230	3,906	-25.3%	268	198	-26.1%
Grades 9 to 12, No Diploma	5,814	5,215	-10.3%	145	97	-33.1%
High School Graduate, No College	33,617	36,470	8.5%	829	824	-0.6%
Some College, No Degree	26,388	28,082	6.4%	393	481	22.4%
Associate Degree	9,449	11,768	24.5%	183	229	25.1%
College, Bachelor's Degree	17,938	20,711	15.5%	301	414	37.5%
Graduate or Professional Degree	9,045	9,748	7.8%	144	162	12.5%
Total Population, Age 25 and Older	107,481	115,902	7.8%	2,263	2,405	6.3%
Distribution				18		
Less than 9th Grade	4.9%	3.4%		11.8%	8.2%	
Grades 9 to 12, No Diploma	5.4%	4.5%		6.4%	4.0%	
High School Graduate, No College	31.3%	31.5%		36.6%	34.3%	
Some College, No Degree	24.6%	24.2%		17.4%	20.0%	
Associate Degree	8.8%	10.2%		8.1%	8.5%	
College, Bachelor's Degree	16.7%	17.9%		13.3%	17.2%	
Graduate or Professional Degree	8.4%	8.4%		6.4%	6.7%	
Language Spoken at Home (Household)						
English Only	115.471	119.421	3.4%	2,207	2.078	-5.8%
Spanish	3,056	5,243	71.6%		-	0.0%
Other Indo-European	2,702	1,609	-40.5%	42		-100.0%
Asian and Pacific Island languages	23,598	27.044	14.6%	970	940	-3.1%
Others	88	596	579.5%	¥ .	1	0.0%
Distribution				20	10	
English Only	79.7%	77.6%		68.6%	68.9%	
Spanish	2.1%	3.4%	l,	0.0%	0.0%	
Other Indo-European	1.9%	1.0%		1.3%	0.0%	
Asian and Pacific Island languages	16.3%	17.6%		30.1%	31.1%	
Others	0.1%	0.4%		0.0%	0.0%	

## Table 3. Income and Education, County of Maui and Island of Lana'i: 2008-2012 and 2013-2017 Estimates

Sources:

U.S. Census Bureau. American Community Survey 5 Year Estimate, 2008-2012.

#### Table 4. Economic impacts of Development Activities (Values in 2018 daters)

Item	Source or Multiplier		Amount	Units
4.a. DEVELOPMENT PERIOD				
Duration of Construction			30	year's
4.b. CONSTRUCTION EXPENDITURES AND RELATED SAL	ES			
Construction Costs		-		
Infrastructure				
Sitework and Utilities	Pulama Lanai	\$	174,582,000	
Buildings				
Light industrial Area				
Light Industrial Uses	\$200 per sq. ft.	\$	60.000.000	
Warehouses	\$150 per sq. ft.	ŝ	22,500,000	
Baseyards		5		
Reserve		\$		
Heavy Industrial Area		-		
Hervy Industrial Uses	\$200 per sq. ft.	5	60.000.000	-
Warehouses	\$150 per sq. ft.	ŝ	22,500,000	
Baseyards	the product	Š		
Reserve		1		
Total for Buildings		5	165.000.000	
Total Construction Costs	-	1	339.582 800	-
Construction Expenditures, Annusi Avenue		-1*		_
Infrastructura		5	5,819,400	Der veer
Hevati	55%	Ť	3 200 700	100 1000
Importa	45%	1	2 818 700	nor your
Buidaya		÷	5 500 000	
Hawaii	55%	- :	3,025,000	per year
Importa	45%	1	2 475 000	per year
Total Construction Expandiburge Annual Systems	TO A		41 340 400	por you
Hava	REAL	1	8 225 200	per year
Immite	45%		6,003,700	ha lag
Indirect Sales, Arress Average	40/0		5,085,700	hes Area
Infracto where	1 11 of Liand am		3 553 600	
Riddens		- :	3,332,000	per year
Total Indirect Sales Annual Average			2,400,000	her And
	804	- :	3,033,300	her los
Oahu	40%	- :	2,020,000	per yeer
Total Direct and Indirect Salas Annual Average	1070		47 365 300	hor yoar
Other Development Costs MI			11,402,100	he yes
Final Sales Aread at 4%)		_	n.e.	
Comination Experiment	Southern 4 h		44 940 400	
Consemption	55% of parmi		11,319,400	her year
Todal Salas at 4%	oon or payroa	1	2,330,000	her year
Intermediate Raise Anneal et A D()	-		10,000,200	her year
Indirect Salas Balated in Construction	Continu 4 a		E 000 000	
	36000n 4.0	1	6,033,300	her heer
Total Sales at 0.5%			2,330,000	THE LOCAL
A - I AND CALER		- *	3,001,450	per year
	6750.000 mm num	-		_
Light Industriel Area	arou, our per acre	1	32,500,000	
Tetal Land Cales	arou, uuu par acre	1	52,500,000	_
Total Land Sales		5	145,080,800	
Annual Land Sales		15	3,580,800	per year

# Table 4. Economic Impacts of Development Activities (Values in 2018 dolars) (continued)

liem	Source or Multiplier		Amount	
4.d. PROFITS			-	
Profite on Total Expanditures & Sales	10.0%	\$	1,735,270	per yeer
Risk Premium for Construction	5.0%	\$	566,000	per year
Land Sales			ne.	
Total Profit from Construction & Related Activity		\$	2,301,270	per year
4.a. EMPLOYMENT (on-site & off-site)				
Construction Jobs	4.48 x salee/\$1 mli		28	joba/year
Indirect Jobs Generated by Construction	1.41 x direct jobs x		39	jobs/year
Land Salee			П.Ө.	
Total Employment			67	jobs/year
41 PAYROLL			)	
Construction Payrol	\$ 89,000 per job	\$	2,492,000	per year
Payrol for Indirect Employment	\$ 45,000 per job	\$	1,755,000	per year
Land Sales		1000	ne.	SN 55
Tota Perrol		\$	4,247,600	Der year

[1] Before realizing profits, developers must pay a number of development-related costs in addition to construction costs. These "Other Development Costs" Include planning, permitting, design, financing, County and State exactions, marketing, and seles commissions.

# Table 5. Economic impacts of Operations at Full Development (Velues in 2018 dolars)

tion (	Source or Multiplier	Amount	Units
5.a. ON-SITE ECONOMIC ACTIVITIES			
Development Area			į. – į
Light Industrial Area			Q
Light Industrial Uses		300.000	sa. ft.
Warehouses		150.000	60. ft.
Basevarda		20	80798
Regerve		20	80786
Heavy Industrial Area		1	
Heavy Industrial Uses		300.000	80. ft.
Warehouses		150,000	Rd. ft.
Baseverda		20	80798
Reserva		20	80798
Existing Businesses Relocating from Other Locations		-	
Licht Industrial Area			è i
Light Industrial Uses	5% of Households x 1 000 so ft	62 300	st fi
Vierehouses		-	sa ft
Baseverds		-	9/785
Reverse		-	80788
Heavy Industrial Area			
Honey Infustrial Lisos			en fi
Wisnahrusaa			en fi
Requests		-	00000
Decerve			07100
Not New Occupied Area			64.90
Light Industrial Arms		\$ <u></u> 6	a
Light Industrial Lines		997 700	an A
Light Hindebull Geos		237,700	64. IL
Presented Baserie		100,000	5Q. IL
Dasayarus		20	86766
Manage Industrial Arma		20	86763
Herevy Industrial Avea		200.000	
TRAVY INUSURE Caes		300,000	SQ. IL
Presente		100,000	84. IL
Baseyarus		20	80765
		20	86263
3.B. NEVERUE			
Light industrial Arae			
Light industrial Uses	a 150 perse,π.	3 40,000,000	per year
New Businesses	\$ 150 per sq. π.	\$ 35,655,000	per year
Electing Evenesses (Relocated from other locations)	a 150 perso,π.	a 9,345,000	per year
Verenciales		п.е.	4
Baseyaroa	-	Le.	5
reaserve		ne.	
Heavy Industrial Area			
Heavy Industrial Uses	a 150 perso, ft.	3 45,000,000	
New Businesses	a 150 per sq. ft.	\$ 45,000,000	ber year.
Examing Businesses (Relocated from other locations)	jā 150 perso, ft.	ş -	per year
Viarenouses		RO.	
basayards		Le.	G A
Reserve		ne	[]
Total Revenue, On-Site		\$ 90,000,000	per year
I ORAL KAWANUN, NAK NAW		> 80,855,800	ber Aee
S.C. PROFIT			Î.
Profit, On Site	10% of revenues	\$ 9,080,800	per year
Profit, Not New	10% of revenues	\$ 8,065,500	per year

#### Table 5. Economic impacts of Operations at Full Development (Values in 2018 dolars) (continued)

Hem Source or Multiplier Amount Units a.d. EMPLOYMENT Light Industrial Area Light Industrial Uses 1,500 sf per emp. 200 jobs 160 jaba 40 jaba 1,500 sf per emp. 1,500 sf per emp. New Businesses Existing Businessee (Relocated from other locations) Warehouses ne. Baseyards Reserve n.e. R.e. Heavy Industrial Area 1,500 sf per emp. Heavy Industrial Uses 200 jobs 1,500 af per emp. New Businessee 200 jobs 1,500 sf per emp. Existing Businessee (Relocated from other locations) - jabs Warehouses 1.0. Baseyards Reserve n.e. ne. Total Employment, On Site Total Employment, Net New 400 jobs 360 jobs 5. e. PAYROLL \$ 45,000 per job Light Industrial Area 9,000,000 per year \$ 7,200,000 per year New Businesses \$ 45,000 per job Existing Businesses (Relocated from other locations) \$ 45,000 per job 1,800,000 per year . Heavy Industrial Area \$ 45,000 per job 9,000,000 per year New Businesses \$ 45,000 per job 9,000,000 per year 5 - per yeer 18,090,900 per yeer 16,290,900 per yeer Existing Businesses (Relocated from other locations) \$ 45,000 per job Total Payroll, On Site Total Payroll, Net New 5.1 SUPPORTED POPULATION AND HOUSING Table 5, Section 5.a Total Employment, Net New 360 jobs Supported Population Housing for Supported Population 2.57 per new job 0.39 per resident 930 residents 360 homes 5.g. RENTAL INCOME Total Rental Income R.O.

#### Table 6. Impacts on County Revenues and Expenditures (Values in 2018 datars)

ltam	Source or Multiplier		Amount	Units
6.a. DEVELOPMENT ACTIVITIES				
Revenues, Cumulativa			Į	l.
Total Revenues, Cumulative		1	ne.	see text
Expanditures, Cumulative	2	1	1	1
Total Expenditures [1]			LG.	see tex
Not Impact Cumulative			RO.	see tax
8.b. OPERATIONS AT FULL DEVELOPMENT		Ĵ.		1
Tax and Expenditure Base			1	
Tatable Property Value				
Light Industrial Area	Table 4, Section 4.b. and 4.f.		135,000,000	2
Heavy Industrial Area	Table 4, Section 4.b. and 4.f.	\$	135,000,000	
Total Property Value		\$	270,090,900	
Revenues, Annuel		1	1	Ĩ.
Property Taxes		1		Ĵ.
Property Tax Revenue	\$ 7.45 per \$1,000	\$	2,011,500	per yes
Lees Current Taxes	County of Maul	\$	(440)	per yea
Net New Property Taxes		\$	2,011,060	per yes
Expanditures, Annual		1		
Total Expenditures			n.e.	see text
Net Revenues, Annual		\$	2,011,060	per yea

[1] Infrastructure will be built by Pulama Lanal.

#### Table 7. Impacts on State Revenues and Expenditures (Values in 2016 dollars)

liem	Source or Multiplier		Amount	Units
7.a. DEVELOPMENT ACTIVITIES				
Tax and Expanditure Base				
Duration	Table 4, Section 4.a	-	30	YOU'S
Final Sales				
Construction Related Final Sales	Table 4, Section 4.b	\$	13,655,250	per year
Land Sales	Table 4, Section 4.c	\$	3,500,000	per year
Total Final Sales		\$	17,155,250	per year
Intermediate Sales	Table 4, Section 4.b	\$	3,697,450	per year
Profits	Table 4, Section 4.d	\$	2,301,270	per year
Payrol	Table 4, Section 4.f	\$	4,247,000	per year
Revenues, Average Annual				10 PA
Excise Tax				
Final Sales	4.0% of sales and property sales	\$	686,200	per year
Intermediate Sales	0.5% of seles	\$	18,500	per year
Corporate Income Taxas	1.0% of profits	\$	23,000	per year
Personal Income Taxes	4.8% of income	\$	203,900	per year
Conveyance Taxes	0.3% of property sales	\$	10,500	per year
Total Revanues		\$	942,100	per year
Revenues, Cumulative		\$	20,263,800	
Expanditures				
Total Expenditures [1]			ne.	
Net Impact, Annual Average		\$	942,100	per year
Nat Impact, Cumulative		\$	28,263,800	
7.c. OPERATIONS AT FULL DEVELOPMENT				
Tax and Expanditure Base				
Sales Revenue, Net New	Table 5, Section 5.b	\$	80,855,000	per year
Profits (on-site activities), Net New	Table 5, Section 5.c	\$	8,065,500	per yser
Employment, Net New	Table 5, Section 5.d		360	joips
Payrol, Nat New	Table 5, Section 5.e	\$	16,200,000	per year
Revenues, Net New, Annual				P2 - 36
Excise Tex	-			
Final Salas	4.0% x 50% of sales	\$	1,613,100	per year
Intermediate Sales	0.5% x 50% of sales	\$	201,600	per year
Corporate Income Tax	1.0% of profit	\$	80,700	per yeer
Personal Income Tax	4.8% of income	\$	777,600	per year
Total Tax Revenue, Net New		\$	1,895,400	per year
Expenditures, Annual		1.50	100 NO 35	ene de
Total Expenditures			n.e.	see text
Net Revenues, Annual		\$	1,895,400	per year