

**MOLOKAI INTEGRATED SOLID
WASTE MANAGEMENT FACILITY**

**SOLID WASTE MANAGEMENT
PERMIT APPLICATION**

**SUBMITTED TO
HAWAII DEPARTMENT OF HEALTH
PURSUANT TO
HAWAII ADMINISTRATIVE RULES,
CHAPTER 58.1**

BY

County of Maui
Department of Environmental Management
Solid Waste Division
2200 Main Street
One Main Plaza, Ste 225
Wailuku, Hawaii 96793

October 2019

**MOLOKAI INTEGRATED SOLID WASTE MANAGEMENT FACILITY
SOLID WASTE FACILITY PERMIT APPLICATION**

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PART I

APPLICATION FORM

**STATE OF HAWAII
DEPARTMENT OF HEALTH
ENVIRONMENTAL MANAGEMENT DIVISION
SOLID AND HAZARDOUS WASTE BRANCH**

**PERMIT APPLICATION FOR
SOLID WASTE FACILITY
(NOT FOR PERMIT BY RULE)**

This permit application was developed in accordance with the requirements of Hawaii Administrative Rules (HAR), Title 11, Chapter 58.1. **In order for this application to be considered complete, completed Attachments P-1 through P-6 and filing fee must accompany this application form.** Please read the general instructions before completing.

I. Type of Application (check all that apply)

- A. Permit to establish a new facility
- B. Permit to modify an existing facility
- C. Permit renewal with no modification
- D. Permit renewal with modification
- E. Change in Ownership
- F. Other.

Describe _____

II. Existing pollution control permits and/or variance issued to facility:

Solid Waste Permit LF-0070-09, Issued January 30, 2010
NPDES / NGPC Permit R50A626.FNL

III. General Information

A. Name and address of the owner of the solid waste facility:

Department of Environmental Management
2050 Main St, Suite 1C, Wailuku, Hawaii 96793
Telephone: (808) 270-8230

B. Name and address of the operator of the solid waste facility:

Department of Environmental Management
2050 Main St, Suite 1C, Wailuku, Hawaii 96793
Telephone: (808) 270-8230

C. Name and address of individual authorized to act for the owner and operator:

Eric A. Nakagawa, P.E., Director, Department of Environmental Management
2050 Main St, Suite 1C, Wailuku, Hawaii 96793
Telephone : (808) 270-8230

D. Name and address of landowner (If landowner is other than the owner/operator of the solid waste facility, include Attachment P-6):

Same as Above
Telephone: (808) 270-8230

E. Name and address of lessee, if appropriate
Facility is not leased—owned by County of Maui

F. Facility Name and Location

Name: Molokai Integrated Solid Waste Management Facility
Address: Maunaloa Highway, between Mileposts 3 and 4
Naiwa, Hawaii, 96748
Tax Map Key: (2) 5-2-11: 27 (por.)

(if appropriate)

Latitude: 21° 07' _____ N
Longitude: 157° 03' 42" W
UTM Coordinates Zone 4 East 701,801 North 2,336,662

G. Type of Facility

1. Landfill
MSW: (daily tonnage 16) X
C&D: (daily tonnage _____) _____
2. Incinerator (daily tonnage _____) _____
3. Solid Waste Processing
Transfer Station (daily tonnage _____) _____
Recycling/materials recovery X
Salvage X
4. Reclamation Facility
Composting X
Remediation _____
5. Special Waste
Special Waste Landfill _____
Medical Waste _____
Foreign Waste _____
Other Non-Specified Technology _____
Please briefly explain _____
6. Waste Treatment/Processing/Storage for Disposal _____

IV. Normal Operating Schedule

- A. Shifts Worked HOURS OF DAY
1. From: 8:00 a.m. To: 2:30 p.m. – Tues. through Sat.
 2. From: _____ To: _____
- B. Days per week: 5 days per week
- C. Weeks per year: 52 weeks per year
- D. Operation is seasonal or irregular, describe:
Operation is continuous.

V. For Permit Renewals and Modifications: Is the existing facility in compliance with Hawaii Revised Statutes (HRS) 342G, 342H and 342I; and Hawaii Administrative Rules (HAR), Title 11, Chapter 58.1, "Solid Waste Management Control"?

Yes X No _____

If the existing facility is not in compliance with HRS 342G, H and/or I and/or HAR, Title 11, Chapter 58.1, "Solid Waste Management Control", provide a detailed implementation plan as an attachment to the application. The implementation plan should include but is not limited to areas of noncompliance, reason for noncompliance, proposed actions towards achieving compliance, and implementation schedule, as an attachment to the application.

VI. Certification by owner and operator:

We, Eric A. Nakagawa, P.E. Director, Environmental Management
(owner) (name) (title)

and _____ (same) _____ (same)
(operator) (name) (title)

certify that we have knowledge of the facts hereby submitted and that the same are true and correct to the best of our knowledge and belief, and that all information not identified as confidential in nature shall be treated by the Department of Health as public record. We further state that we will assume responsibility for the construction, modification, operation, maintenance, closure and post-closure of the facility in accordance with Hawaii Revised Statutes, 342G, H and I; and Hawaii Administrative Rules, Title 11, Chapter 58.1, and any permit issued thereof. As co-permittees, we understand that we share joint and several liability for compliance with aforementioned statutes, regulations, and permits.

If the owner/operator is a partnership or group other than a corporation or a county, one individual who is a member of the group shall sign the application. If the applicant is a corporation or a county, an officer of the corporation, general manager of the facility, or an authorized representative of the county shall sign the application.

Date: 10/16/19 Owner: _____
Signature: [Signature]
Title: for Eric A. Nakagawa, P.E., Director
Company Name: County of Maui, Dept. of Env. Mgmt.
Address: 2050 Main Street, Suite 1C, Wailuku, HI 96793
Telephone: (808)270-8230

Date: _____ Operator: _____
Title: Same as above
Company Name: _____
Address: _____
Telephone: _____

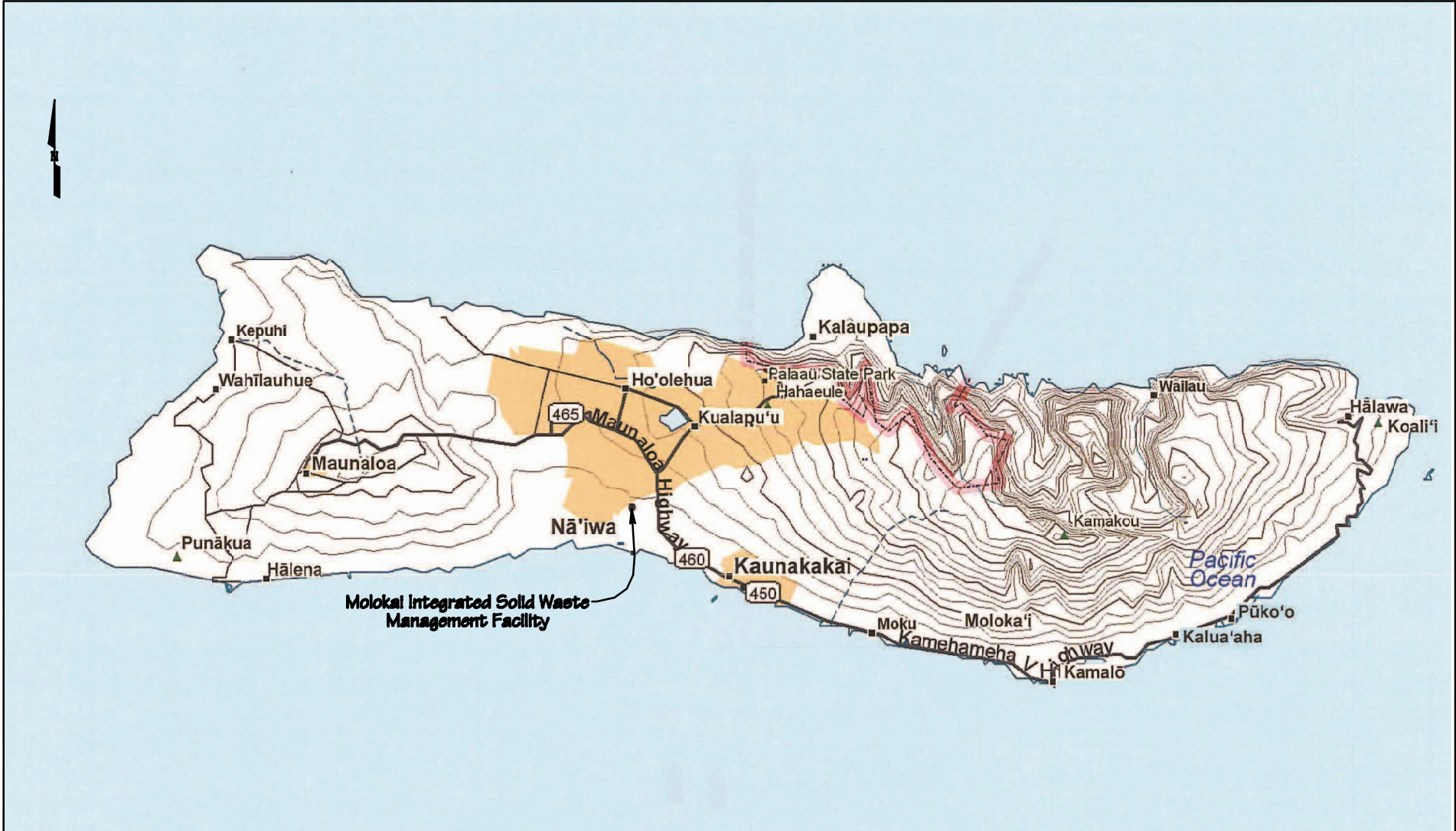
PART II

ATTACHMENTS P-1 - P-6

ATTACHMENT P-1

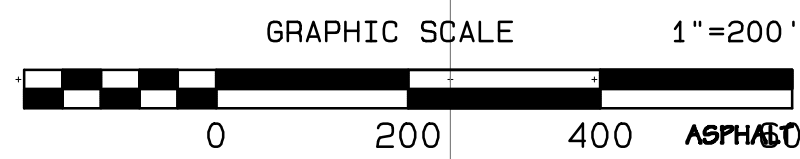
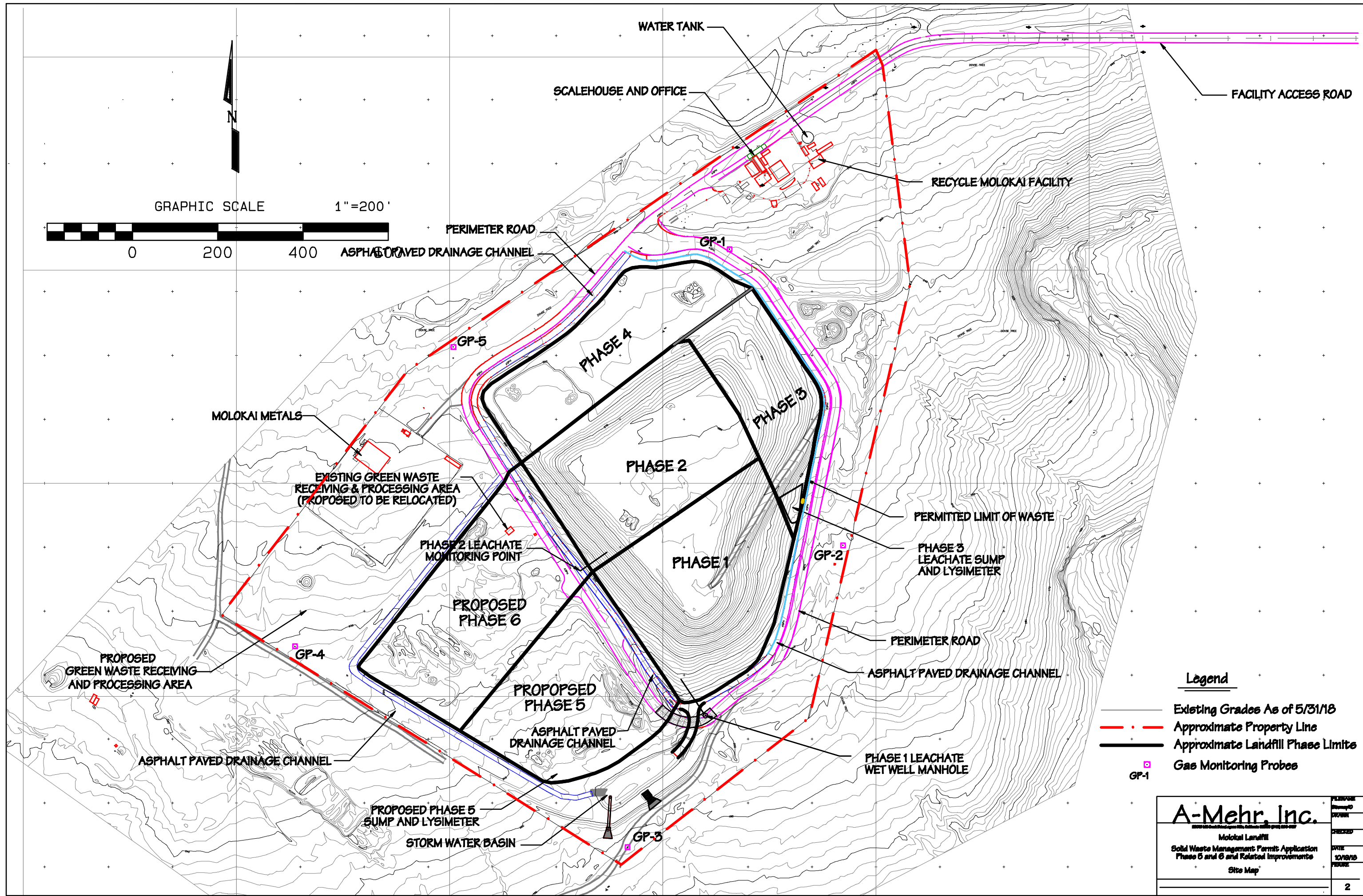
LOCATION DRAWINGS

1. Location Drawing
2. Site Plan



Source: Delorme Topo Quads and Munekiyo Hiraga

<h2 style="margin: 0;">A-Mehr, Inc.</h2> <small>22076 148 Street Drive, Laguna Hills, California 92653 (949) 206-0107</small>	FILENAME
	Sitemap10
	DRAWN
	CHECKED
Molokai Landfill Solid Waste Management Permit Application Phase 5 and 6 and Related Improvements Location Drawing	DATE
	8/31/18
	FIGURE
	1



- Legend**
- Existing Grades As of 5/31/18
 - Approximate Property Line
 - Approximate Landfill Phase Limits
 - Gas Monitoring Probes

A-Mehr, Inc.		PREPARED BY A-Mehr, Inc.
Molokai Landfill Solid Waste Management Permit Application Phase 5 and 6 and Related Improvements		CHECKED BY DATE 10/18/18
Site Map		FIGURE 2

ATTACHMENT P-2

**STATEMENT OF PUBLIC
INTEREST**

STATEMENT OF PUBLIC INTEREST

A. PURPOSE

This section addresses the requirements set forth by the Department of Health (DOH) under Hawaii Revised Statutes, Chapter 342H-4(c), which requires the Director of Health to determine that approving an application for a solid waste facility will “be in the public interest.” The information contained in part (C) below addresses topics required by DOH to be addressed in order to determine whether approving the permit is in the public interest, based on considerations listed in HRS 342H-4(c).

The following description of the Molokai Integrated Solid Waste Management Facility is incorporated in this section in order to provide a context for the discussion of public interest

B. PROJECT DESCRIPTION

Introduction

Molokai Integrated Solid Waste Management Facility (MISWMF), owned and operated by the County of Maui, Department of Environmental Management (County), is the only solid waste disposal facility for Molokai. The currently developed disposal area presently consists of approximately 11.6 acres, including approximately 6.8 acres in Phases 1 and 2, and approximately 4.8 acres in Phases 3 and Phase 4.

In addition to landfilling operations, the site operation also includes waste diversion and recycling services. These services consist of:

- HI5 redemption and recycling center – receipt, storage, and periodic transport off site for recycling of source separated metal, plastic, cardboard, bi-metal, electronics, paper bags, aluminum, used motor oil, paint, and glass;
- Greenwaste recycling – receipt, storage, and grinding into mulch; and
- Scrap metal recycling - managing scrap vehicles, white goods, and other scrap metal for storage and periodic transport off site for recycling.

This Application for a modified Solid Waste Management Permit is submitted to allow the County to construct and operate Phases 5 and 6, and continue waste disposal operations in Phases 1 through 4. Phase 5 and 6 will provide additional lined disposal areas of 3.2 and 3.4 acres respectively. With the development of Phases 5 and 6, the total landfill footprint will be approximately 18.2 acres. The County also requests the continued operation of waste diversion operations currently implemented at MISWMF.

C. PUBLIC INTEREST CONSIDERATIONS

1. Environmental Impact

A Final Environmental Assessment (EA) was prepared and certified in April 1993 for MISWMF. It identified beneficial impacts of establishing a centralized site for landfill disposal and solid waste diversion operations.

MISWMF serves approximately 7,300 people based on census data for East and West Molokai, and Kalawao districts of Molokai (Maui County Data Book 2012). On average, MISWMF receives and disposes of approximately 16 tons of municipal solid waste daily (annualized daily average for the period of May 31, 2018 through April 17, 2019) from residential and commercial sources. Potential adverse impacts related to groundwater, surface water, litter, traffic and other issues are minimized or mitigated by facility design and operational procedures such as daily covering of the active face.

Consistent with the State Integrated Waste Management Plan, MISWMF also diverts the following wastes for recycling:

- Greenwaste.
- Redeemable Glass, Plastic and Aluminum Beverage Containers (HI5 program);
- Cardboard;
- Newspaper and other paper materials;
- Aluminum;
- Plastic
- Bi-metal;
- Electronic waste;
- Scrap metal;
- Scrap automobiles;
- White goods;
- Used propane tanks;
- Tires;
- Lead acid batteries;
- Used motor oil; and

Greenwaste is processed into mulch and utilized on site and provided to members of the public free of charge. All other recyclable materials are received, stored, and periodically shipped off site for recycling.

Over the period of Fiscal Year 2017 through Fiscal Year 2019, the MISWMF recycling operations have annually diverted from landfill disposal an average of 626 tons of scrap metal, 1,115 tons of greenwaste, and 46 tons of other recyclable materials. Greenwaste is shredded into mulch for local use while all other diverted materials are consolidated and shipped to their respective off site end users.

Table P2-1 summarizes the potential impacts of the project in relation to the environmental impact significance criteria of HAR 11-200-12(b).

2. Unavoidable Adverse Impacts

Potential environmental effects of the facility operation are mitigated by both facility design and operational practices. Daily cover controls vectors, fires, litter, and air emissions while landfill design addresses leachate collection and removal.

The EA for the MISWMF expansion addressed the following unavoidable impacts and corresponding mitigation measures:

- Leachate production and water quality – drainage control, liner system, leachate management system and operating procedures to minimize leachate production and prevent its release to the environment;
- Erosion – grading, effective application of cover soil, and drainage controls;
- Flora and fauna – daily cover procedures to minimize attraction of birds and animals to the landfill;
- Visual impact – cover application on the active landfill, good housekeeping practices, and fencing;
- Air quality and odors – effective application and maintenance of daily cover, dust control measures, and landfill gas monitoring (quarterly);
- Litter – effective compaction and covering of waste, portable litter control fencing, and litter collection program;
- Economy – managing capital expenditures by constructing the landfill in phases;
- Fire –A water tank and truck, and heavy earthmoving equipment are available on site;
- Archaeological and historic sites – as part of the EA, an archeological survey completed in 1992 revealed no surface remains or other evidence of significant cultural activities. A new Archaeological Assessment report was conducted in April 2018 and arrived at the same conclusion as the 1992 study. However, caution will be taken during landfill construction to identify and manage any remains or historic sites unearthed.

3. Alternatives to the Proposed Action

The EA evaluated barging waste off-island. The number of trips required to avoid long periods of refuse storage and cost made barging an impractical alternative. The EA also concluded that recycling and composting were appropriate technologies that would be implemented to reduce the volume of waste requiring landfill disposal.

The MISWMF combines a number of different approaches to solid waste management and is the Best Practical Technology for the island due to its varied approaches of diversion thorough salvage, mulching, and recycling in combination with disposal in the landfill. The waste diversion and recycling operations implemented provide alternatives to landfill disposal and reduce the island's reliance on landfill disposal. The County's Integrated Solid Waste Management Plan establishes enhanced goals for waste diversion.

4. Relationship between Short-Term Uses and Long-Term Productivity

The area is zoned agricultural and when the landfill parcel is closed the land will return to open space compatible with the surrounding area. With the environmental controls established during design, construction, operation, and closure, the landfill's long-term impacts are mitigated. The EA concluded that

there are no significant adverse secondary impacts or effects on population, future development, and public facilities due to this project.

The County of Maui will provide 30 years of post-closure care and maintenance, unless a demonstration is made to the satisfaction of HDOH that the site poses no further risk to the public or the environment. During the post-closure period, the following will be conducted in conformance with HAR 11-58.1-17(b) to mitigate long-term effects of pollutants:

- Maintenance of the final cover and drainage system
- Operation and maintenance of leachate collection and removal systems
- Landfill gas monitoring

5. Irreversible and Irretrievable Commitments of Resources

Other than the irretrievable commitment of the 40 acres of land, labor, and capital, the EA concluded that *the proposed project will not adversely affect the physical and social environment.*

6. Optimum Balance between Economic Development and Environmental Quality

As the only municipal solid waste disposal facility serving the island, the MISWMF is essential to the ongoing economic growth and environmental health of the island. Although other alternative means of disposal may be developed in the future, continued operations in Phases 1 through 4 and the future Phases 5 and 6 are necessary to provide secure management of solid waste for the citizens of Molokai. Though successful waste diversion measures are being implemented, the landfill will continue to be essential for disposal of the non-recyclable and non-processable residual waste.

7. Consistency with the State Integrated Solid Waste Management Act (HRS 342G) and the County's Approved Integrated Solid Waste Management Plan (ISWMP)

The MISWMF is designated in the County ISWMP as the primary disposal site for Molokai for the foreseeable future. In addition to the landfill disposal areas, the MISWMF includes facilities for collection and recycling of scrap metal, greenwaste, and source separated recyclable materials.

8. Public Input Relating to the Impact of the Facility on Public Health and the Environment

The County will hold one or more public hearings on the amended Special Use Permit as required by law. Records of public comments received at hearings will be submitted as an amendment to this Application.

**Table P2-1
Evaluation of Environmental Impact Significance Criteria of HAR 11-200-12(b)**

No.	Criteria Description	Evaluation of Molokai Integrated Solid Waste Facility
1	Involves an irrevocable commitment to loss or destruction of any natural or cultural resource	The site has no known natural resource. There are no known cultural resources on the site.
2	Curtails the range of beneficial uses of the environment	The site will be returned to use as passive open space at the end of the useful life of the proposed landfill.
3	Conflicts with the state's long-term environmental policies or goals and guidelines	The development of environmentally secure solid waste disposal facilities and waste diversion measures are a significant part of the state's long term planning goals.
4	Substantially affects the economic welfare, social welfare, and cultural practices of the community or State	The landfill will continue to provide employment opportunities for local residents, and maintain the current operation of a solid waste disposal facility at the site.
5	Substantially affects public health	Environmental controls relative to air emissions, leachate and surface water management, and control of vectors will ensure no adverse impacts on public health.
6	Involves substantial secondary impacts, such as population changes or effects on public facilities	The project is a continuation of landfill development and operation at the site since 1993. Incremental impacts of the Phase 5 and 6 development are insignificant.
7	Involves a substantial degradation of environmental quality	Construction and operation of state-mandated controls relative to stormwater, litter control, air emissions and groundwater protection will prevent significant environmental degradation.
8	Is individually limited by cumulatively has considerable effect upon the environment or involves a commitment for larger actions	There are no cumulative impacts. The proposed landfill will provide essential environmental infrastructure meeting the needs of the Island of Molokai.
9	Substantially affects a rare, threatened, or endangered species, or its habitat	There are no known threatened or endangered species in the vicinity.

10	Detrimentially affects air or water quality or ambient noise levels	Construction and operation of state-mandated controls relative to stormwater, litter control, air emissions and groundwater protection will prevent significant environmental degradation.
11	Affects or is likely to suffer damage by being located in an environmentally sensitive area such as a flood plain, tsunami zone, beach, erosion prone area, geologically hazardous land, estuary, fresh water, or coastal waters	The site is located on the Hoolehua Plain, the central isthmus joining the East Molokai Volcano and the West Molokai Volcano. Several drainage gulches cut across the isthmus, and the Manawainui Gulch is the most prominent. The traditionally dry and arid conditions of the project site do not lend itself to local flooding conditions.
12	Substantially affects scenic vistas and viewplanes identified in county or state plans or studies	The area is not identified as a scenic vista or viewplane.
13	Requires substantial energy consumption	Energy consumption requirements of landfills are nominal, generally limited to diesel fuel required for operating equipment and electrical power required for a modest compliment of administrative and support facilities.

ATTACHMENT P-3

SITE ANALYSIS, FACILITY DESIGN, OPERATIONS PLAN, AND GROUNDWATER MONITORING

ATTACHMENT P-3-A

OPERATIONS PLAN

For Site Analysis, Operations Plan, and Groundwater Monitoring subject matter, please see separately bound volume titled:

Operations Plan
Molokai Integrated Solid Waste Management Facility

ATTACHMENT P-3-B

DESIGN REPORT

For Facility Design, including engineering calculations, construction drawings, technical specifications, and construction quality assurance plans, please see separately bound volume titled:

Design Report
Phase 5 and 6 Disposal Cells and Drainage Improvements
Molokai Integrated Solid Waste Management Facility

ATTACHMENT P-4

**CLOSURE AND
POST-CLOSURE PLAN**

Please see separately bound volume titled:

Closure and Post-Closure Plan
Molokai Integrated Solid Waste Management Facility

**ATTACHMENT P-5
ZONING CLEARANCE FORM
SOLID WASTE PERMIT APPLICATION**

TO THE APPLICANT:

Please be advised that a requirement for the issuance of a solid waste management permit in Hawaii is that the facility meets local ordinances and zoning requirements, including the recording of its disposal facility with the Bureau of Conveyances.

In order that the SHWB may determine whether the facility is in compliance with local land use policy, **we require that this attachment be completed and signed by the appropriate county land use/planning agency** (on Oahu, contact the Department of Planning and Permitting). No permit will be issued unless this form has been properly completed and returned. If a Use Permit or SMA Permit is required, submit a copy of said permit with this form.

Name of Applicant: County of Maui, Department of Environmental Management

Name and phone number of primary contact for applicant:
Eric Nakagawa, P.E., Director (808) 270-8230

Address of proposed facility:
Maunaloa Highway between Mileposts 3 and 4, Naiwa, Molokai, Hawaii

Tax Map Key: (2) 5-2-11:27(por)

Description of proposed facility [e.g., waste processing, waste storage (indoor or outdoor), recycling, composting, waste disposal, etc.): Municipal Solid Waste Disposal

COUNTY AGENCY APPROVAL:

The Current Zoning of the Proposed site for the Proposed Activity / Facility / Operation is:

Allowed Identify Approved Use Permit/SMA, other Restrictions/Limitations: Special Use Permit SUP-9200017
Special Permit SP93-383

Not Allowed Reason (ex: Use Permit/SMA required, application pending, etc.): _____

Name: Jay Arakawa

Title: Zoning Inspector

Agency: County of Maui, Department of Planning

Signature: [Handwritten Signature] Date: 10/14/19

**ATTACHMENT P-6
PROPERTY OWNER APPROVAL FORM
SOLID WASTE PERMIT APPLICATION**

TO THE APPLICANT:

In order that the SHWB may determine whether the property owner and/or master lessee is knowingly allowing the proposed solid waste activity, we require that this attachment be completed and signed by the property owner and the master lessee, if appropriate. **No permit will be issued unless this form has been properly completed and returned.**

Applicant: County of Maui, Department of Environmental Management

Name and phone number of primary contact/agent:

Eric A. Nakagawa, P.E., Director (808) 270-8230

Address of proposed facility: Maunaloa Highway between Milepost 3 and 4
Naiwa, Molokai, Hawaii

Tax Map Key TMK 5-2-11: 27 (por.)

Description of proposed facility [e.g., waste processing, waste storage (indoor or outdoor), recycling, composting, waste disposal, etc.): Municipal Solid Waste Landfill


PROPERTY OWNER / MASTER LESSEE APPROVAL:

I/We certify that I/we have knowledge and approve of the applicant's proposed solid waste management facility for the subject location. I/We further certify that I/we fully understand the requirements under HAR Chapter 11-58.1, Subchapter 6, such that I/we am/are also responsible for the aesthetic, nonhazardous, sanitary storage, and removal of solid waste to approved solid waste management facilities.

If the property owner/master lessee is a partnership or group other than a corporation, a county or state entity, one individual who is a member of the group shall sign this form. If the property owner/master lessee is a corporation, a county, or a state entity, an officer of the corporation, or an authorized representative of the county or state shall sign this form.

Property Owner:

Name of Authorized Representative: Eric A. Nakagawa, P.E.

Signature:  Date: 10/16/19

Title: Director, Environmental Management Telephone: (808) 270-8230

Company Name: County of Maui Termination date of

Address: 2200 Main Street, Suite 100, Wailuku Lease/approval: Not leased

Master Lessee:

Name of Authorized Representative: Not applicable – property owned by Applicant

Signature: _____ Date: _____

Title: _____ Telephone: _____

Company Name: _____ Termination date of

Address: _____ lease/approval: _____