

CHAPTER 1: Introduction

This Part consists of eight chapters - this introduction (Chapter 1), six chapters discussing specific management measures for Hawaii (Chapters 2 through 7), and a chapter describing general recommendations for implementation (Chapter 8). Chapters 2-7 correspond to the land and water use activities and chapters used in EPA's *Guidance Specifying Management Measures for Sources of Nonpoint Pollution in Coastal Waters*. These chapters are:

- Chapter 2: Agriculture
- Chapter 3: Forestry
- Chapter 4: Urban Areas
- Chapter 5: Marinas and Recreational Boating
- Chapter 6: Hydromodifications - Channelization, Channel Modifications, Dams, Streambank and Shoreline Erosion
- Chapter 7: Wetland and Riparian Areas

1.a. Organization of Chapters

Each chapter normally begins with an introduction that discusses the character of the specific land and water use activity in Hawaii, provides relevant background information on the potential nonpoint source pollution problems associated with the land or water use activity (condensed from the EPA guidance document), and describes other information relevant to the chapter.

Each chapter contains a section for each management measure for that land or water use activity. These management measures may either be ones provided in EPA's *Guidance Specifying Management Measures for Sources of Nonpoint Pollution in Coastal Waters* or alternatives adapted for Hawaii. In many cases, the information on the management measures was developed in coordination with the focus group for that land or water use activity. If the recommendations for implementing the management measures for a specific land or water use activity are organized around one existing or proposed program, then these recommendations are outlined at the end of the chapter. Otherwise, specific recommendations for implementation follow each management measure.

1.b. Organization of Management Measure Sections Within Chapters

Each management measure is laid out in a consistent manner, generally similar to the layout in EPA's *Guidance Specifying Management Measures for Sources of Nonpoint Pollution in Coastal Waters*. Each management measure section begins with the management measure itself, whether it be the EPA's or the State's alternative. Where the State is proposing an alternative management measure, EPA's management measure is shown, with additions indicated by underlined type (e.g., addition), and deletions indicated by brackets around and strikethru across the deleted text (e.g., [~~deletion~~]).

Under each management measure, the following information is provided:

- **Description** - This reference section generally explains the nonpoint source pollution problems associated with the land or water use activity

Part III - Management Measures for Hawaii

and why the management measure is needed. This description is generally condensed from EPA's *Guidance Specifying Management Measures for Sources of Nonpoint Pollution in Coastal Waters*. When the State has developed an alternative management measure, a justification for that alternative is also described.

- **Applicability** - The applicability of the management measure is described in terms of specific land and water use activities, or size and types of land and water uses that are affected by the management measure.

NOTE: Historically, there have been some ambiguities in what constitutes a point and a nonpoint source of water pollution. For the purposes of the coastal nonpoint pollution control program, any storm water runoff that ultimately is regulated under a Clean Water Act Section 402(p) National Pollutant Discharge Elimination System (NPDES) permit is no longer subject to this program once the permit is issued.

- **Management Practices** - Management practices that can be used on-site to implement the management measure are listed and, in some cases, described.
- **Implementation of Management Measure** - The current implementation of the management measure is described. This description includes the existing organizational structure (which agencies have lead and supporting roles), the existing regulatory and non-regulatory mechanisms, and, where appropriate, additional needs for management measure implementation.